ROUTE	STATE PROJECT	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
	82195 C11 82251	I-75-1(88)54	1.	

113,000-M-60

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MICHIGAN

STATE HIGHWAY DEPARTMENT

JOHN C. MACKIE

STATE HIGHWAY COMMISSIONER

THE IMPROVEMENTS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE MICHIGAN STATE HIGHWAY DEPARTMENT CURRENT STANDARD SPECIFICATIONS AND SUPPLEMENTAL SPECIFICATIONS.

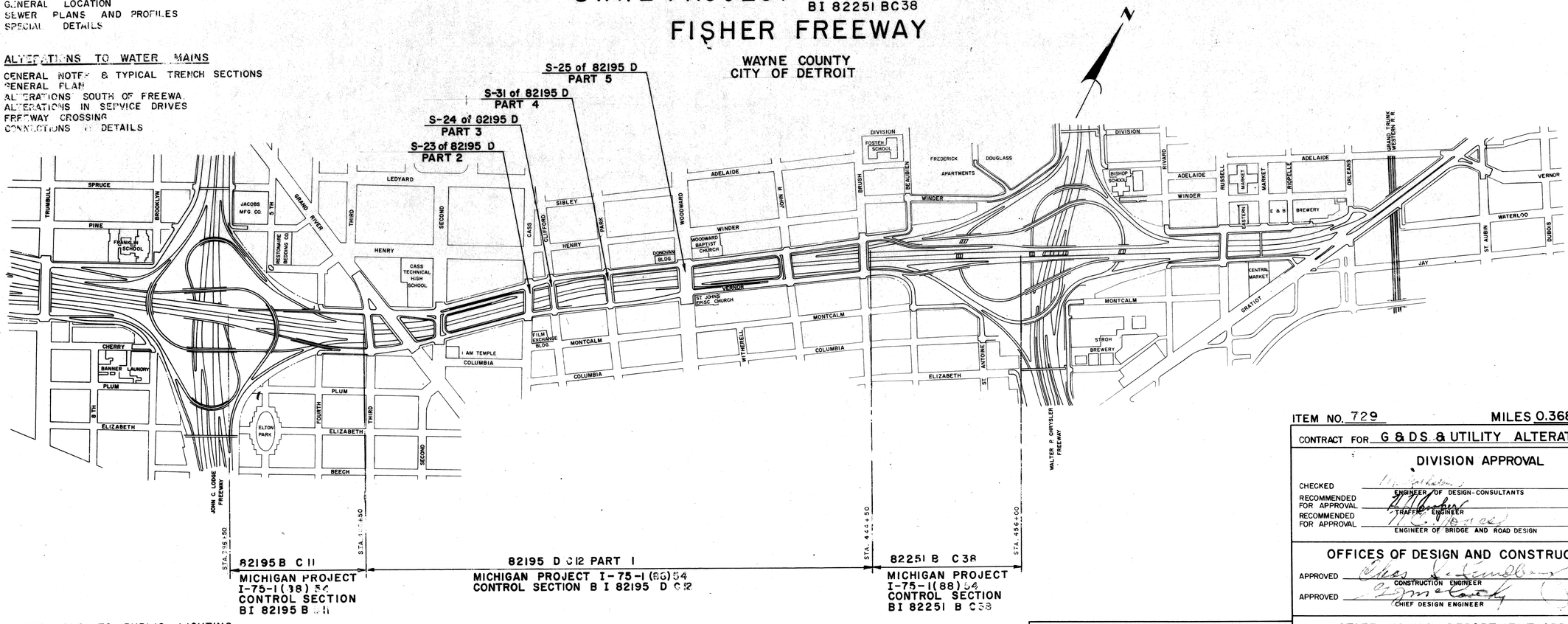
PLANS OF PROPOSED

MICHIGAN PROJECT I-75-1(88)54

STATE PROJECT BI 82195 BC11
BI 82195 DC12 Parts 1,2,3,4 & 5
BI 82251 BC38

FISHER FREEWAY

WAYNE COUNTY
CITY OF DETROIT



STANDARDS TO BE PRINTED
E-18-A-2 ALUM. LIGHT STANDARDS
E-18-A-3 STEEL LIGHT STANDARDS

ITEM NO. 729 MILES 0.368

CONTRACT FOR G & DS & UTILITY ALTERATIONS

DIVISION APPROVAL

CHECKED _____ ENGINEER OF DESIGN-CONSULTANTS — DATE 12-23-69
RECOMMENDED FOR APPROVAL _____ TRAFFIC ENGINEER — DATE 12-30-69
RECOMMENDED FOR APPROVAL _____ ENGINEER OF BRIDGE AND ROAD DESIGN — DATE

OFFICES OF DESIGN AND CONSTRUCTION

APPROVED _____ CONSTRUCTION ENGINEER — DATE
APPROVED _____ CHIEF DESIGN ENGINEER — DATE 12/24/69

STATE HIGHWAY DEPARTMENT APPROVAL

APPROVED JOHN C. MACKIE, STATE HIGHWAY COMMISSIONER
BY _____ DIRECTOR OF ENGINEERING-CHIEF ENGINEER — DATE

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

APPROVED _____ ENGINEER OF EXPRESSWAYS
APPROVED _____ ASSOCIATE CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS
APPROVED _____ CITY ENGINEER
APPROVED _____ COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAY COORDINATOR

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF
PUBLIC WORKS

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED [redacted]
DIVISION ENGINEER — DATE

PROJECT NO. 82195 B C11 82195 D C12 82251 B C38

82195 B C11	PROJECT NO.	FEDERAL PROJECT	SHEET NO.
	82195 82251	I-75-1(88)54	1

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OF THE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

JOHN C. LODGE FREEWAY (NORTHBOUND)

EAST SERVICE DRIVE

HENRY ST.

ALLEY

W'BD. VERNOR DETOUR

PLC

4'0"S

GRAND RIVER AVE.

VERNOR HIGHWAY

400

405

410

E'BD. VERNOR DETOUR

CHERRY ST.

Place Barricades as shown on Cherry Street after Varnor Highway Traffic is placed on Detour. Barricades are Billed on Sh. # 3

Single Barricade

Control Section 82195BC11

Control Section 82195DC12

FIFTH ST.

FOURTH ST.

THIRD ST.

SECOND AVE.

PLUM ST.

16"W

HENRY ST.

CASS AVE.

CLIFFORD ST.

PARK AVE.

NORTH SERVICE DRIVE

SOUTH SERVICE DRIVE

FISHER FREEWAY

BRIDGE S24

BRIDGE S31

BRIDGE S23

12"W

5'3"S

5'6"S

4'0"S

18"S

18"W

Place Barricade on Part of Henry and Montcalm following Start of Const on Park Bridge. Barricades are Billed on Sh. # 3

MONTCALM ST.

COLUMBIA ST.

SURFACING LEGEND

Concrete Pavement 9" Uniform
Concrete Pavement 8" Uniform
Concrete Pavement 9" Uniform (Special High Early Strength)

UTILITIES

S = Sewers
W = Water Main
P = P.L.C. Conduit

ITEMS IN CONTRACT

FREEWAY

Grading and Drainage from Second to Woodward

SERVICE DRIVES

Grading, Drainage, Paving and Lighting of the North and South Service Drives from Second to Woodward.

DETOURS

Grading, Drainage, Paving and Lighting of the Cass, Clifford and Woodward Detours.
Grading, Drainage and Paving of the Eastbound and Westbound Vernor Detours.

UTILITY ALTERATIONS

Water Mains

Proposed 16" Crossing Freeway - near Cass
Proposed 12" on North Side of Frwy - Second - Woodward
Proposed 12" on South Side of Frwy - Second to Cass
Proposed 12" in Plum St and Fourth St.
Miscellaneous Alterations

Sewers

Proposed Woodward 7'0"x6'0" Twin Box Sewer.
Proposed Sewer on North Side of Frwy - Part - Grand River
Proposed Sewer in Henry near Grand River
Proposed Sewer in Windsor near St. Antoine
Miscellaneous Alterations

Public Lighting

Lighting and Traffic Signalization of Service Drives.
Proposed Ducts in Henry West of Fourth.
Miscellaneous Alterations

BRIDGES AND RETAINING WALLS

Cass Avenue Bridge	S23 of 82195D
Clifford Street Bridge	S24 of 82195D
Woodward Avenue Bridge	S25 of 82195D
Park Avenue Bridge	S31 of 82195D

Retaining Walls are included as a part of Bridges listed above.

WINDER ST.

W. SER. DR.

WOODWARD AVE.

JOHN R ST.

BRUSH ST.

BEAUBIEN ST.

ST. ANTOINE ST.

NAPOLEON ST.

WBD VERNOR DETOUR

EBD VERNOR DETOUR

FUTURE E FISHER FREEWAY

VERNOR HIGHWAY

BRIDGE S25

Prop. 7'0"x6'0" Twin Box Sewer

2 Barricades Typical

Typical Placement of Barricades on Vernor Highway at all Cross Streets after the Vernor Highway Traffic is placed on the Detour. (Barricades are Billed on Sh. # 3

Control Section 82195DC16

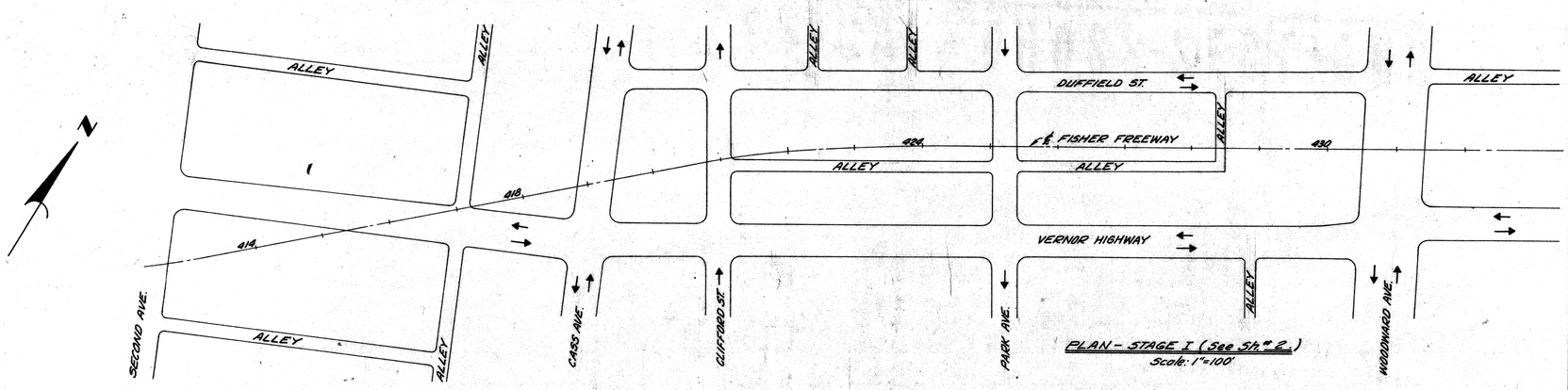
Control Section 82251BC38

430
435
440
445
450
455

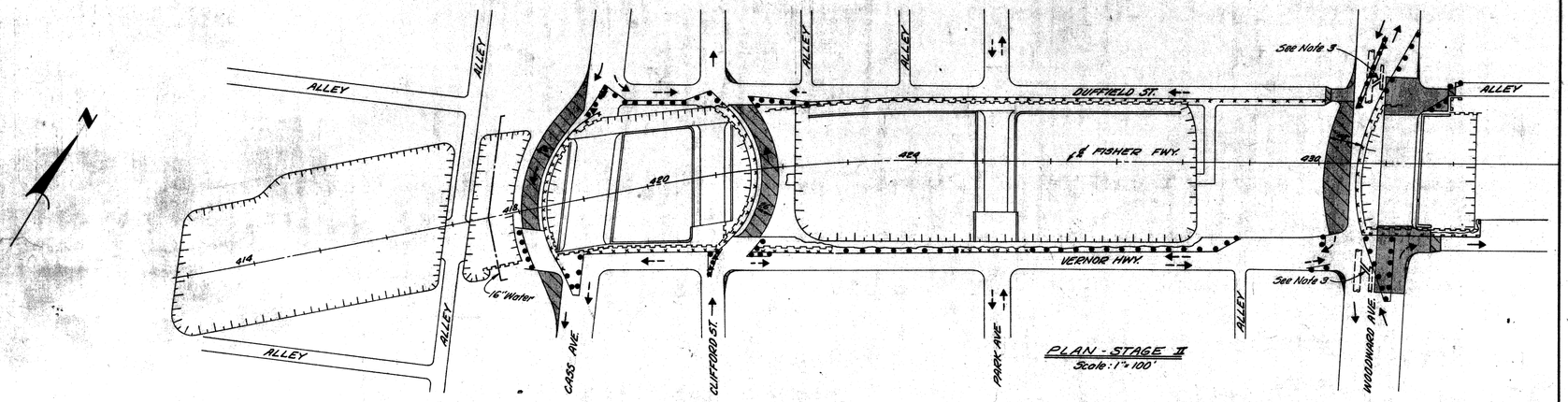
GENERAL PLAN

SOUND LEADER			
DRAWN BY	J.W.WICKEY	12-62	
TRACED BY	J.KNOX	12-62	
CHECKED BY	R.COMLY	12-62	
CORRECT	Alan E. Vogel	12-62	
RECOMMENDED FOR APPROVAL	CITY ENGINEER, HIGHWAYS AND EXPRESSWAYS		

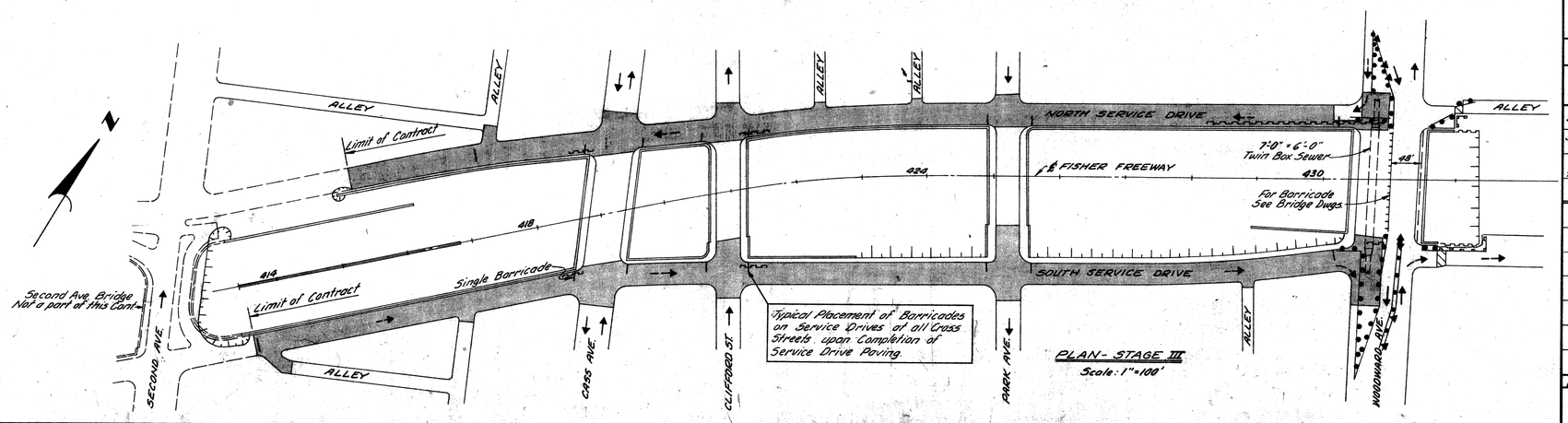
FILE NO. (Use No. Stencil)	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	STP-1(083)54	2



PLAN - STAGE I (See Sh.# 2.)
Scale: 1"=100'



PLAN - STAGE II
Scale: 1"=100'



PLAN - STAGE III
Scale: 1"=100'

B.P.R. DIV. NO.	STATE	PROJ. NO.	FED. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.	F-25-1(80)54			
ROUTE	STATE PROJECT	COUNTY	C/T	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detr.	3	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FED. NO.	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

LEGEND

- Pavement
- Temporary Pavement
- Temporary Steel Beam Guard Rail
- 5-40 Barricade
- 5-40 Barricade Modified
- Temporary Steel Sheeting
- Traffic
- Local Traffic Only
- Two Level Flasher
- Barricade
- Steel Beam Guard Rail

STAGE I

1. Construct Alterations to Sewers, Watermains and U.C. ducts in Henry St., Winder St., Plum St. and Columbia St.
2. Construct Temporary Detour Pavement and Drainage for East Bound and West Bound Vernor Detour.
3. Place East Bound and West Bound Vernor traffic in Detours, Placing barricades on Cherry St. and Vernor Highway as shown on Sh.# 2.

STAGE II

1. Construct Woodward, Cass and Clifford Detours, Maintaining Local Traffic along Vernor Highway & Duffield St. for All Stages.
2. Construct 12" Water Main adjacent to North Service Drive.
3. Reroute Ex. 3'0" Sewer into Ex. 9'0" Sewer at Woodward.
4. Construct Sewer in North Service Drive, Park to Grand River.
5. Construct East Half of Woodward Ave. Bridge.
6. Construct 16" Encased Water Main Crossing Freeway.
7. Construct Cass, Clifford, and Park Bridges.
8. Place Approach Pavement for East Half of Woodward Bridge.
9. Drive Temporary Steel Sheeting for Retaining Walls.
10. Excavate for Freeway except for Plugs for Detour and Utilities.
11. Construct Retaining Walls.

STAGE III

1. Place Woodward Traffic on East Half of Woodward Bridge, using part of East Sidewalk for Roadway.
2. Construct 7'0" x 6'0" Twin Box Sewer at Woodward
3. Construct West Half of Woodward Bridge.
4. Complete the Cass, Clifford, Park, and Woodward Bridges Including Approach Pavement. Use Part Width Construction
5. Complete Remainder of Freeway Excavation and Retaining Walls.
6. Complete Utility Work in Service Drives.
7. Place Service Drive Pavement using Part Width Construction and Maintaining Local Traffic at All Times.

Items Required to Maintain Traffic During Construction which have not been Billed on Other Sheets are Listed as Follows.

ITEM	UNIT	Section 82195BC11			Section 82195DC12			Section 82251B(3)		
		Furnish & Install	Relocate	Remove	Furnish & Install	Relocate	Remove	Furnish & Install	Relocate	Remove
5-40 Barricade	Lin.Ft.	—	—	—	1,975	8,500	1,800	—	—	—
5-40 Barricade (Modified)	Lin.Ft.	—	—	—	200	100	200	—	—	—
Timber Curb & Snow Fence	Lin.Ft.	100	100	100	100	100	100	100	100	100
Barricade	Lin.Ft.	180	—	180	396	168	228	72	—	—
Temp. Steel Beam Guard Rail			—		1600	Lin. Ft.			—	
Steel Beam Guard Rail			—		100	Lin. Ft.			—	
Temp. Conc. Sidewalk			—		8,764	Sq. Ft.			—	
Splash Boards			—		96	Lin. Ft.			—	
Bit. Leveling Course			—		11	Tons			—	
Bit. Wearing Course 3 1AA			—		11	Tons			—	
Patching Pavement with Bit. Material			—		78	Tons			—	
Bit. Bond Coat			—		40	Gals.			—	

CONSTRUCTION SEQUENCE

FILE NO. L.H.A. NO. SBC SPENCE	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-25-1(80)54	3

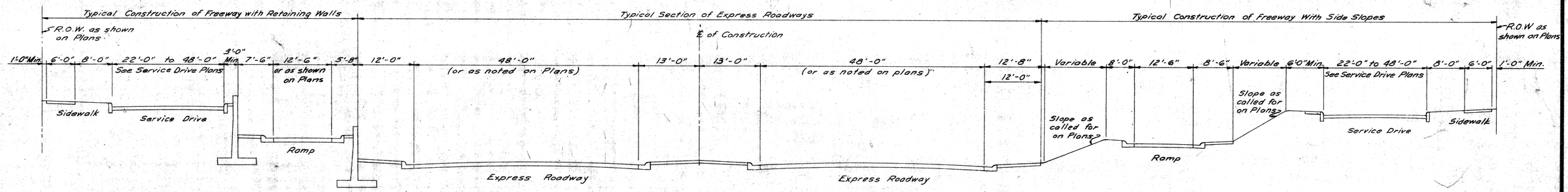
PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS

DRAWN BY	CHECKED BY	COMPUTED BY	RECOMMENDED FOR APPROVAL	BY	DATE	NO.	ITEM
W. PELTO	J. WICKEY				11-64	1	
					12-64	2	

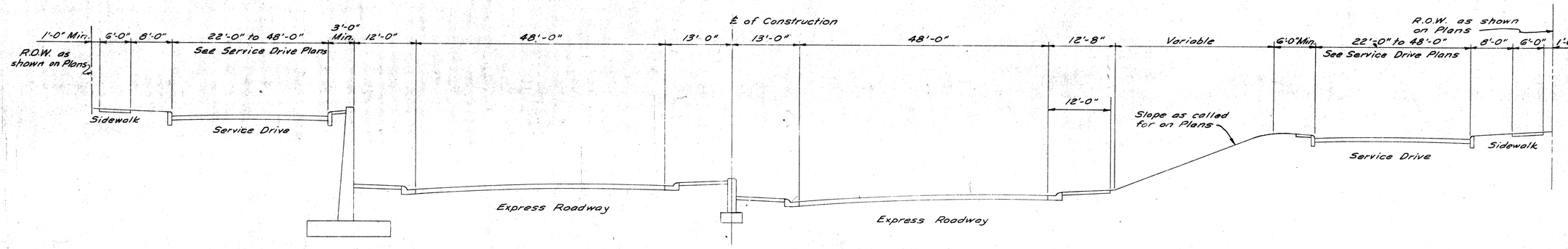
TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	4	

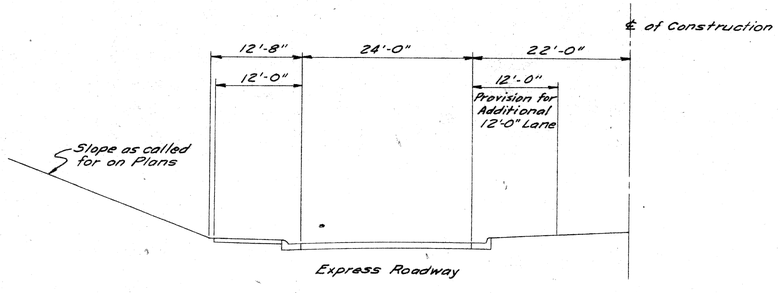
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



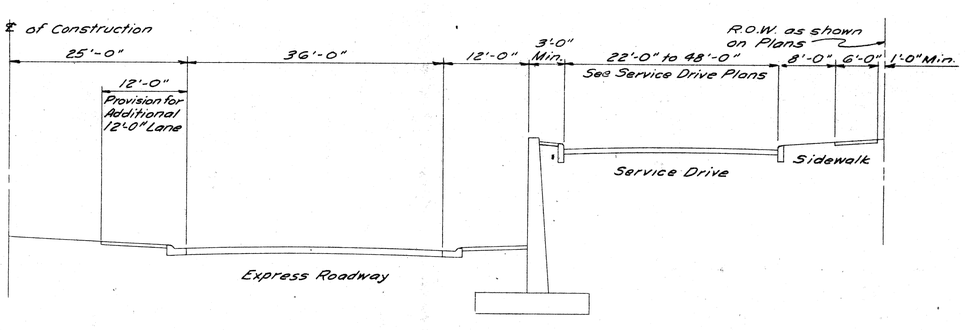
GENERAL TYPICAL CROSS – SECTION
SCALE 1"= 10'



SPECIAL CROSS – SECTION
WITH RETAINING WALL AT MEDIAN
SCALE 1"=10'



SPECIAL HALF SECTION
OF 24' PAVEMENT WITH
PROVISION FOR FUTURE WIDENING



SPECIAL HALF SECTION
OF 36' PAVEMENT WITH
PROVISION FOR FUTURE WIDENING

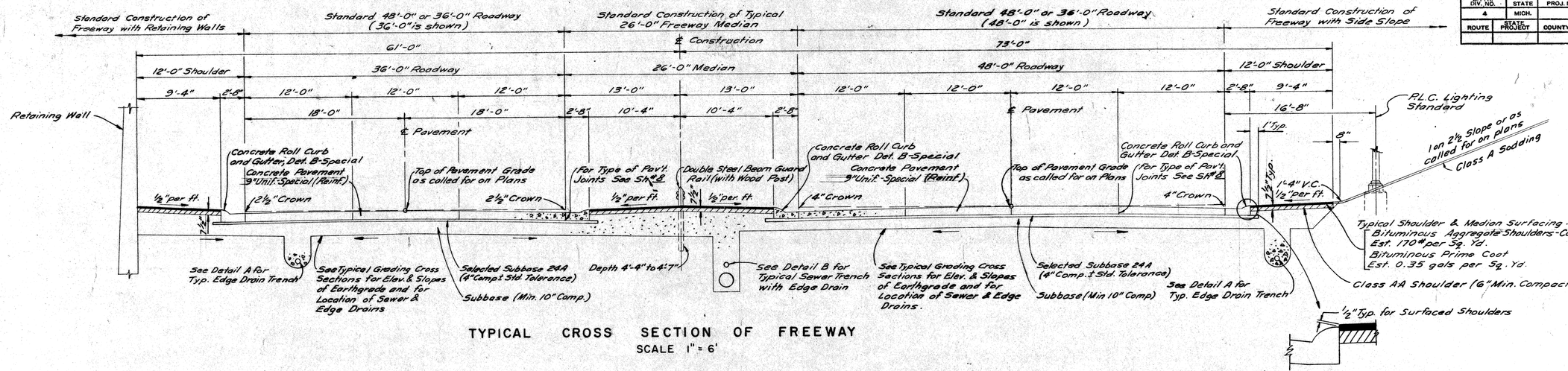
GENERAL CROSS – SECTIONS

FILE NO. USE NO. SEQ SYMBOL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	For Approval	4

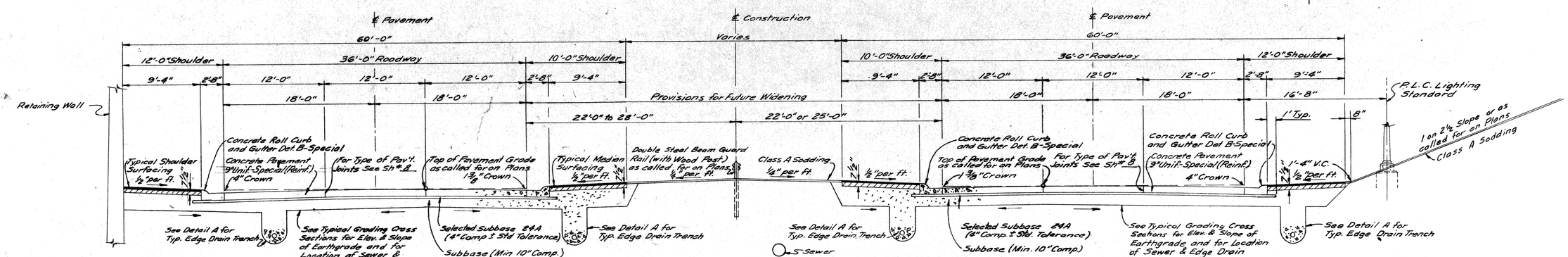
TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	5	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

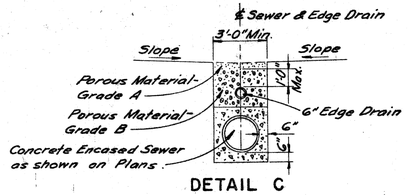


TYPICAL CROSS SECTION OF FREEWAY
SCALE 1" = 6'

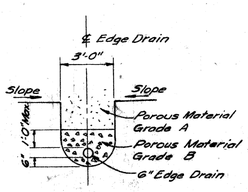


TYPICAL CROSS SECTION OF FREEWAY
WITH PROVISION FOR FUTURE WIDENING OF 36' ROADWAY
SCALE 1" = 6'

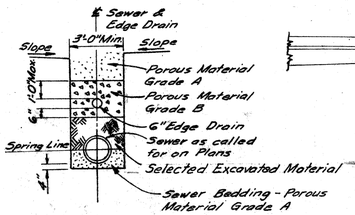
NOTE:
Class A Slopes are required on this Project according to Section 2.13.03(b) of the M.S.H.D. Standard Specifications.



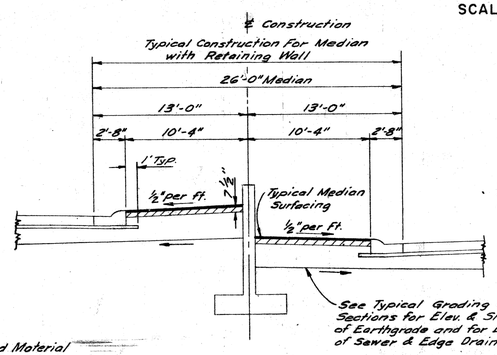
DETAIL C
ENCASED SEWER TRENCH WITH EDGE DRAIN
SCALE 1" = 4'



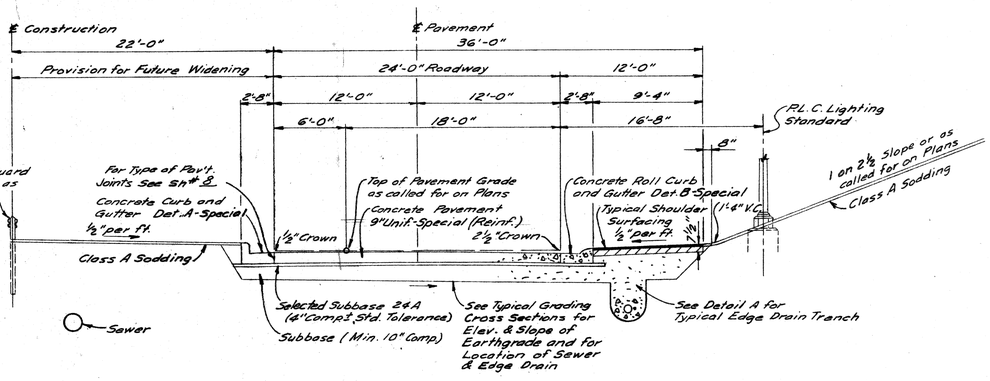
DETAIL A
EDGE DRAIN TRENCH
SCALE 1" = 4'



DETAIL B
SEWER TRENCH WITH
EDGE DRAIN
SCALE 1" = 4'



TYPICAL CROSS SECTION AT MEDIAN
WITH RETAINING WALL
SCALE 1" = 6'



TYPICAL HALF SECTION OF FREEWAY WITH
PROVISION FOR FUTURE WIDENING OF 24' ROADWAY
SCALE 1" = 6'

SECTIONS OF FINISHED ROADWAYS

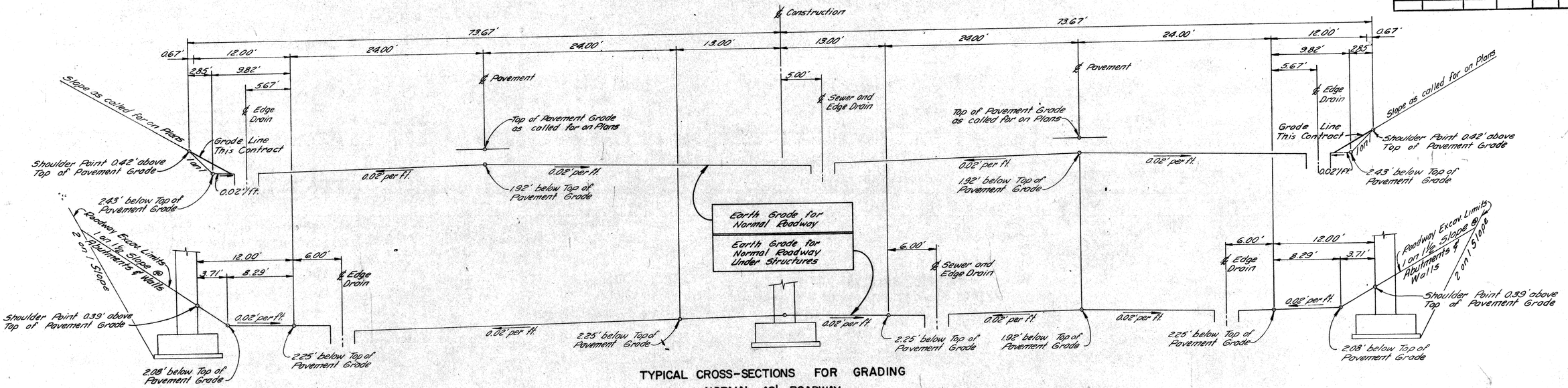
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS' OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

FILE NO. THIS SHEET	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	F-75-1(88)54	5

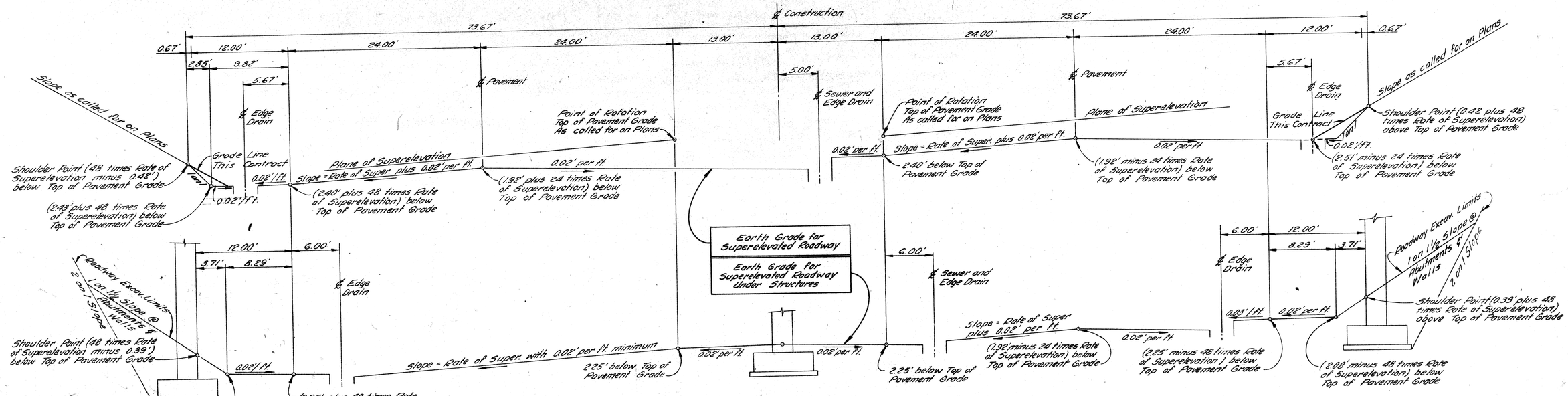
TYPICAL CROSS-SECTIONS

S. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(18)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	6	

S. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



TYPICAL CROSS-SECTIONS FOR GRADING
NORMAL 48' ROADWAY
SCALE 1" = 6'



TYPICAL CROSS-SECTIONS FOR GRADING
SUPERELEVATED 48' ROADWAY
SCALE 1" = 6'

GRADING SECTIONS FOR
48' ROADWAY

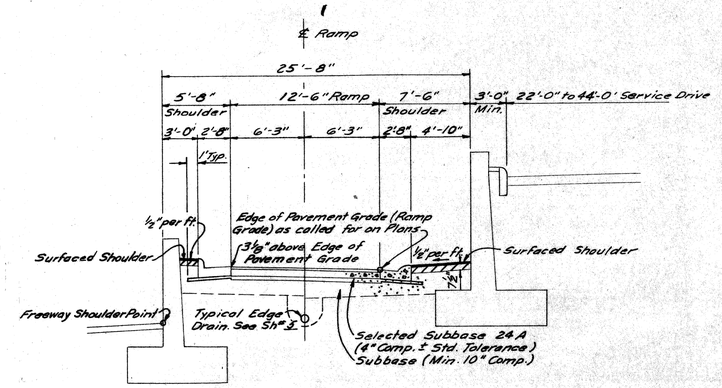
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	F-75-1(18)54	6

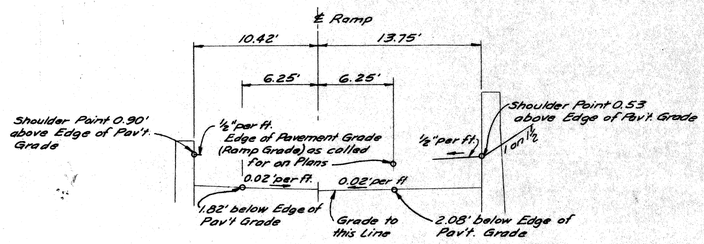
TYPICAL CROSS-SECTIONS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-151(68)S14			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	7	

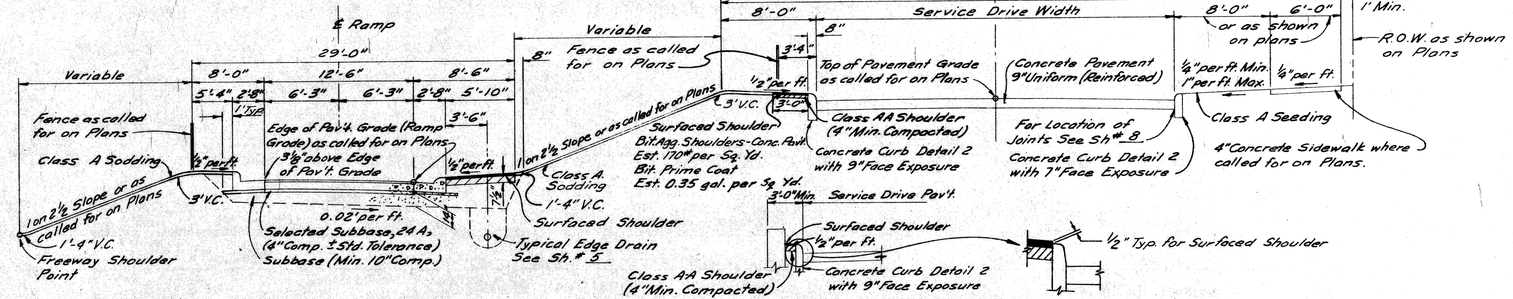
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

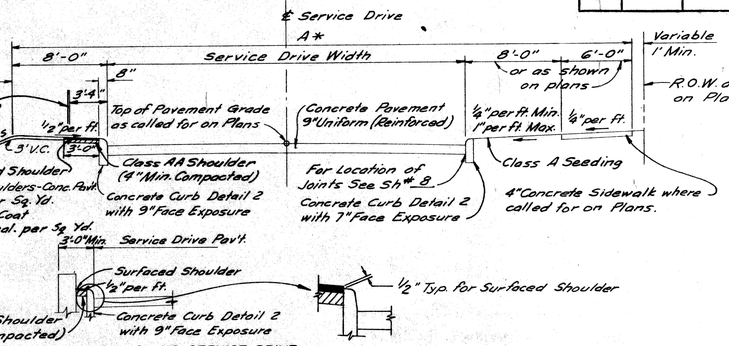


TYPICAL SECTION SHOWING
FINISHED 12.5' RAMP WITH WALLS
SCALE - 1" = 6'



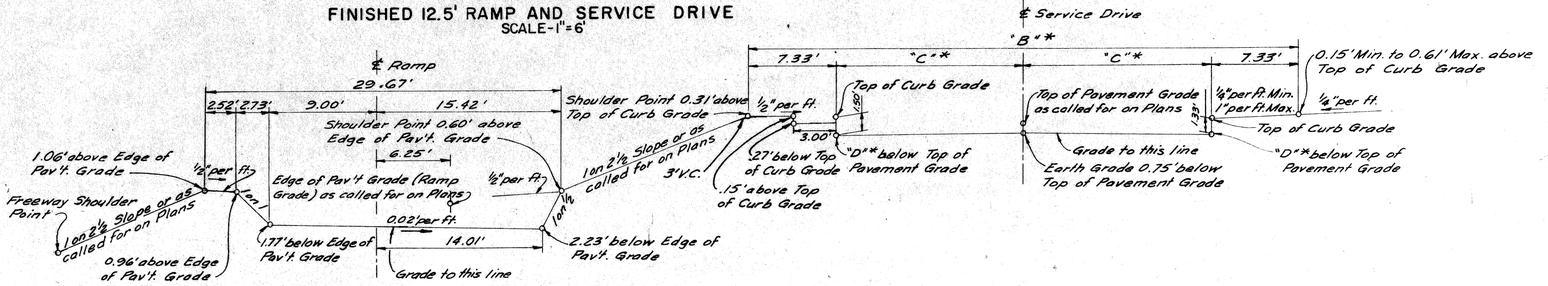
TYPICAL SECTION FOR GRADING
12.5' RAMP WITH WALLS
SCALE - 1" = 6'



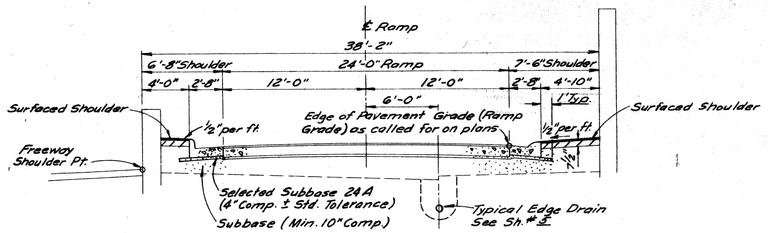


ALTERNATE SHOWING SERVICE DRIVE
AT RETAINING WALL
SCALE - 1" = 6'

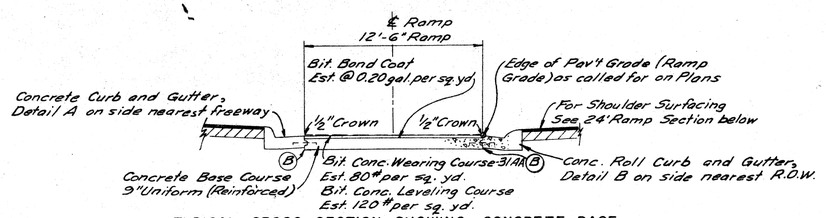
TYPICAL SECTION SHOWING
FINISHED 12.5' RAMP AND SERVICE DRIVE
SCALE - 1" = 6'



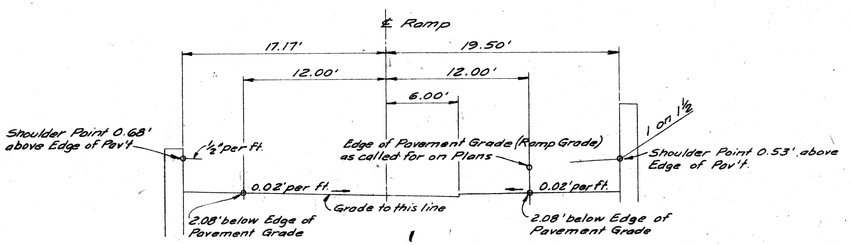
TYPICAL SECTION FOR GRADING
RAMP AND SERVICE DRIVE
SCALE - 1" = 6'



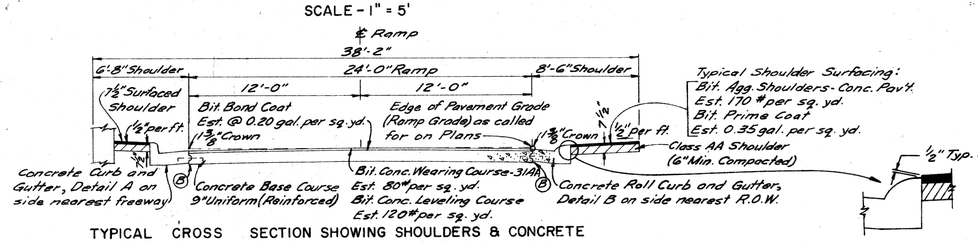
TYPICAL SECTION SHOWING
FINISHED 24' RAMP WITH WALLS
SCALE - 1" = 6'



TYPICAL CROSS SECTION SHOWING CONCRETE BASE
COURSE 9" UNIFORM (REINFORCED) WITH BITUMINOUS
CONCRETE PAVEMENT TO APPLY ON 12'-6" RAMP
SCALE - 1" = 5'



TYPICAL SECTION FOR GRADING
24' RAMP WITH WALLS
SCALE - 1" = 6'



TYPICAL CROSS SECTION SHOWING SHOULDERS & CONCRETE
BASE COURSE 9" UNIFORM (REINFORCED) WITH BITUMINOUS
CONCRETE PAVEMENT TO APPLY ON 24' RAMPS
SCALE - 1" = 5'

*STANDARD DIMENSIONS & GRADING CONSTANTS
FOR SERVICE DRIVES

Service Dr. Width (feet)	Crown (Inches)	A (feet)	B (feet)	C (feet)	D (feet)
22'	1¾	44	38	11.67	0.90
24	2	46	40	12.67	0.92
30	2¾	52	46	15.67	0.98
33	3¼	55	49	17.17	1.02
48	5¾	70	64	24.67	1.23

NOTES:

Ⓑ -- Longitudinal Bulkhead Construction Joint in accordance with M.S.H.D. Std. Plan E-4-A-33H Detail 2.

The Concrete Pavement and Concrete Base Course shall be reinforced throughout in accordance with M.S.H.D. Std. Plan E-4-A-21F.

Concrete Curb, Detail 2 and Concrete Curb and Gutters, Details A and B shall be in accordance with M.S.H.D. Std. Drwg. E-4-A 29 F.

RAMPS AND SERVICE DRIVES

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

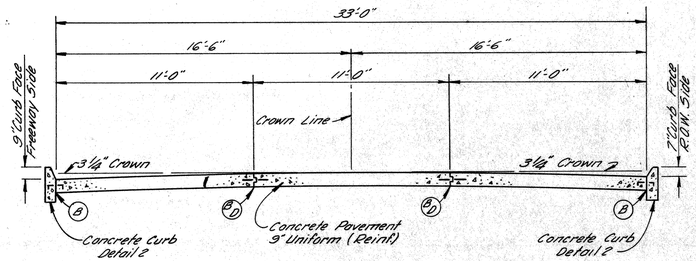
FILE NO. AND SHEET NO.		STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B	C11	82195	F-151-(68)S14	7

TYPICAL CROSS-SECTIONS

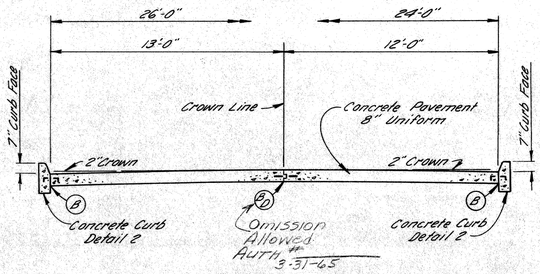
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F75-1(88)154			
ROUTE	STATE PROJECT	COUNTY	C.Ty	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	8	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

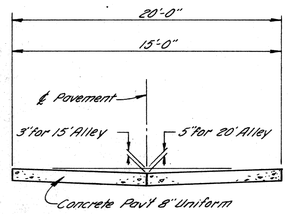
AUTH # 3-31-65



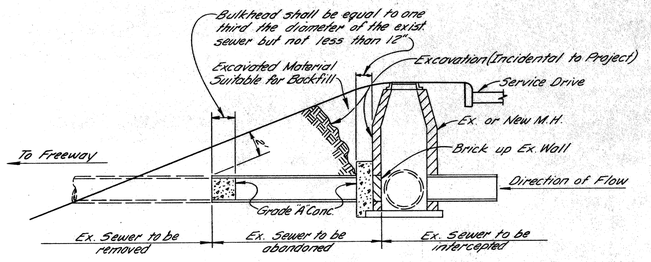
TYPICAL CROSS-SECTION SHOWING
CONCRETE PAVEMENT 9" UNIFORM (REINFORCED)
TO APPLY ON 33' SERVICE DRIVES



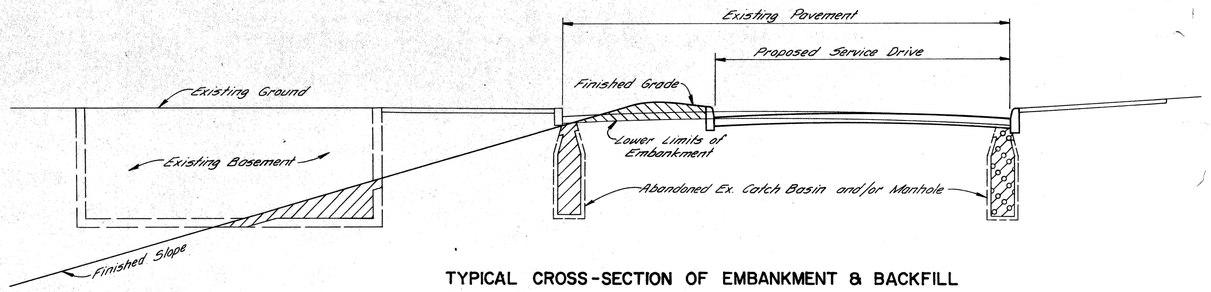
TYPICAL CROSS-SECTION SHOWING
CONCRETE PAVEMENT 8" UNIFORM
TO APPLY ON 24' & 26' VERNOR DETOUR ROADWAYS



TYPICAL CROSS-SECTION SHOWING
CONCRETE PAVEMENT 8" UNIFORM
TO APPLY ON ALLEYS



SKETCH SHOWING METHOD FOR
BULKHEADING SEVERED SEWERS



TYPICAL CROSS-SECTION OF EMBANKMENT & BACKFILL

JOINT LEGEND

B — Longitudinal Bulkhead Construction Joint according to M.S.H.D. Std. Plan E-4-A-33 H, Detail 2.

D — Longitudinal Lane Tie Joint with Tie Bars according to M.S.H.D. Std. Plan E-4-A-33 H, Detail 1

BD — Optional B or D

NOTE: The Concrete Base Course & Concrete Pavement shall be reinforced throughout in accordance with M.S.H.D. Std. Plan E-4-A-21 F.

EARTHWORK LEGEND

EMBANKMENT

BACKFILL:

Porous Material Grade-A

Select Yellow Clay Backfill

Embankments shall consist of all Earthwork required above the existing ground line or above the ground line after the removal of the top soil, pavements, curbs, sidewalks & concrete floor slabs.

AUTH # 3-31-65

PAVEMENT SECTIONS & SPECIAL DETAILS

FILE NO. USE NO. 350 STENCIL	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F75-1(88)154	8

SPECIAL PROVISIONS

GRADES FOR INTERSECTIONS

All intersections are to be considered as complete units and their grades determined before construction is started.

TRANSVERSE JOINTS IN CONCRETE PAVEMENT

Transverse joints in concrete pavement shall be placed according to details on Standard Plan E-4-A-135B and E-4-A-127B.

TRANSVERSE PLANE OF WEAKNESS JOINTS IN CONCRETE BASE COURSE

Transverse plane of weakness joints shall be placed according to Standard Plan E-4-A-127B.

TRANSVERSE JOINTS IN CONCRETE BASE COURSE

In the concrete base course widening, transverse plane of weakness joints shall be placed in line with expansion joints in the existing concrete pavement.

HAND FINISHING

Hand finishing according to 4.14.03-q-1 of the Standard-Specifications will be permitted on intersections outside of the normal traffic lanes.

PUBLIC UTILITIES

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys dated October, 1961. This information does not relieve the Contractor of the responsibility to satisfy himself as to their accuracy or of his responsibility in case utilities have been constructed or removed since the above survey date.

Type of Utility	Owner	
Water Mains	Dept. of Water Supply	Detroit
Sewers	Dept. of Public Works	Detroit
Lighting	Public Lighting Comm.	Detroit
Fire	Detroit Fire Dept.	Detroit
Police	Detroit Police Dept.	Detroit
Electric	Detroit Edison Co.	Detroit
Telephone	Mich. Bell Telephone Co.	Detroit
Gas	Mich. Consol'd. Gas Co.	Detroit
Telegraph	Western Union Telegraph	Detroit

The owners of existing poles and other service structures that are within grading limits and that will interfere with construction operations will move them to locations designated by the Engineer or will remove them entirely from the high-way right-of-way.

Owners of public utilities will not be required by the Department to move additional poles and structures that are not within grading or structure limits in order to facilitate the operation of construction equipment, unless it is determined by the Engineer that such pole line or structures constitute a hazard to the public or are extraordinarily dangerous to the Contractor's operations.

GENERAL PLAN NOTES

POLES

No poles will be permitted within the right-of-way along this project except as authorized by the Engineer.

The following items of work shall be done as they apply throughout the project. These items are not detailed or included on the plan and profile sheets.

CONTROL SECTION I-75-82195B-C11

LOCATION	TRIMMING & FINISHING EARTH GRADE STAS.	FINE GRADING AND CLEANUP STAS.
EASTBOUND VERNOR DETOUR		
33+83 to 36+30	–	2.47
36+64 to 39+58	–	2.94
WESTBOUND VERNOR DETOUR		
33+84 to 37+24	–	3.40
TOTAL	–	8.81

CONTROL SECTION I-75-82195D-C12

EASTBOUND FISHER		
413+25 to 432+00	18.75	–
WESTBOUND FISHER		
413+25 to 432+00	18.75	–
SECOND AVENUE EXIT RAMP		
415+00 to 418+44.77	3.45	–
NORTH SERVICE DRIVE		
415+35 to 432+10	–	16.75
SOUTH SERVICE DRIVE		
413+46 to 431+45	–	17.99
CASS DETOUR		
0+48 to 0+92	–	0.44
1+52 to 4+02	–	2.50
CLIFFORD DETOUR		
0+92 to 3+20	–	2.28
WOODWARD DETOUR		
1+14 to 3+15	–	2.01
WESTBOUND VERNOR DETOUR		
2+25 to 2+93	–	0.68
TOTAL	40.95	42.65

CONTROL SECTION I-75-82251B-C38

EASTBOUND VERNOR DETOUR		
451+03 to 451+57	–	0.54
451+95 to 453+80	–	1.85
WESTBOUND VERNOR DETOUR		
451+40 to 455+11	–	3.71
TOTAL	–	6.10

CONTROL SECTION I-75-82195D-C12

Restoring Roadsides	0.1 ~~0.2~~ Acres
Class A Seeding	0.28 ~~0.4~~ Acres
Rye Seeding	0.28 ~~0.4~~ Acres

The following items are estimated for the entire project to correct possible unstable subgrade conditions where designated by the Engineer.

Subgrade Undercutting	176.4 ~~1000~~ Cu. Yds.
6" Bank Drains	–0– ~~100~~ Lin. Ft.
6" Sewer (6' Deep or Less) For Bank Drains	–0– ~~100~~ Lin. Ft.
Granular Blanket	–0– ~~100~~ Cu. Yds.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(82)154			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	9	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

NOTES APPLYING TO STANDARD PLANS

Where the following items are called for on plans, they are to be constructed according to the Standard Plan given below opposite each unless otherwise indicated.

Edge Drain	E-4-A- 9F, Detail 5
Bank Drains	E-4 A- 9F, Detail 4
Granular Blanket	E-4-A-10D, Detail 2
Pavement Reinforcement	E-4-A-21F
Grading Cross-Sections	E-4-A-26D
Manholes, Catch Basins and Inlets	E-4-A-27R-4
Cover A	E-4-A-27A-3
Cover D-4	E-4-A-27D-4
Cover H	E-4-A-27H
Cover J	E-4-A-27J
Cover M	E-4-A-27M
Concrete Curb, Roll Curb and Curb and Gutter	E-4-A-29F
Curb and Gutter Headers	E-4-A-29F, Detail 9
Driveway Returns and Driveway Openings	E-4-A-29F
Concrete End Header (At pavement ends)	E-4-A-29F, Detail 20
Bridge Header	E-4-A-29F, Detail 21
Pavement Joints	E-4-A-33H (Except that plain tie bars will not be permitted)
Superelevation of Curves	E-4-A-49B-7 (Except that the rate of super-elevation is to be called for on plans)
Pavement Crowns	E-4-A-49B-7 (Except that the crowns for surface roadways are to be called for on plans)
Road Project Markers	E-4-A-77D
4" Concrete Sidewalk	E-4-A-110B, Detail 2
7" Concrete Sidewalk	E-4-A-110B, Detail 3
Typical Joint Layout	E-4-A-127B (Except that the joint spacing shall be called for in the supplemental specs.)
Tile Trap	E-4-A-129
Dowel Bar Installation for Load Transfer at Transverse Contraction and Expansion Joints	E-4-A-130E
Base Plates for Transverse Pavement Joints	E-4-A-138 (Except that spot welds may be substituted for rivets to attach the I"angle)
Location of Transverse Expansion and Contraction Joints in Concrete Pavement	E-4-A-135B (Except that the joint spacing shall be called for in the supplemental specs.)
Barricade and Project Sign	E-6-A-55E
Steel Beam Guard Rail	E-4-A-137E
Construction Identification Sign	E-6-I-60

B.P.R. DIV. NO.	STATE	PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)154			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	11	

B.P.R. DIV. NO.	STATE	PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

QUANTITIES Control Section 82195 B C11

Removing Trees 8"-12"	20	Each
Removing Trees 13"-24"	4	Each
Abandoning Manhole (Incl. Backfill)	1	Each
Abandoning Catch Basins (Incl. Backfill)	2	Each
Removing Sidewalk	374.1	384 Sq. Yds.
Removing Curb	548	298 Lin. Ft.
Removing Pavement	1073.6	988 Sq. Yds.
Replacing Sidewalk, 4" Conc.	2120	196 Sq. Ft.
Replacing Sidewalk, Temp. 2" Conc.	1741	161 Sq. Ft.
Replacing Curb, Det. 2A	66.6	33 Lin. Ft.
Replacing Pavement	2.75	346 Sq. Yds.

LEGEND

- Removing Curb
- Removing Sidewalk
- Replacing Sidewalk
- Removing Pavement
- Replacing Pavement
- Proposed Pavement
- Proposed Sidewalk
- Existing Foundation Wall
- Existing Concrete Slab
- Existing Basement

Control Section 82195 B C11

VERNOR HWY. 80 FT. WD. (50' Asph.)

1-110 Gal. U.G. Tank Location Unknown

4-1000 Gal. U.G. Tanks-Location Unknown

Tank Bldg.

Pump Sta.

Abandon C.B.

E.B. VERNOR DETOUR

Temp. 2" Walk

#1027-31

#1017

#1015

#1018

#1010

#2227-31

#2210

#2206

Remove

Abandon M.H.

Temp. 2" Walk

P.L.C. Conduit was allocated over W.M. See work order 9

CHERRY ST. 50 FT. WD. (32' Asph.)

17 FT. ALLEY (Conc.)

Control Section 82195 B C11

LODGE EAST SERVICE DR. (Asph.)

FIFTH AVE. 50 FT. WD. (28'-32' Asph.)

14 FT. ALLEY (Brick)

FOURTH AVE. 50 FT. WD. (32' Asph.)

14 FT. ALLEY (Conc.)

PLUM ST. 50 FT. WD. (26'-32' Asph.)

15 FT. ALLEY (Conc.)

THIRD AVE. 60 FT. WD. (48' Asph.)

REMOVAL ITEMS
BETWEEN LODGE EAST SERVICE DR. AND THIRD AVE.
VERNOR HWY. TO PLUM ST.

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERING OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

TRACED BY	DESIGNED BY	CHECKED BY	RECOMMENDED FOR APPROVAL
P.E. Richard	M. Keegan	M. Keegan	
12-64	12-64	12-64	

DIRECT SUPERVISION | SPECIFICATIONS | MAINTENANCE | SPECIAL ASSIGNMENT | INSPECTION | TURNPIKE

FILE NO. U.S. NO. STATE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	F-75-1(88)154	11

R.F.B. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(081)59			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	10	

R.F.B. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

QUANTITIES - Control Section 82195 B C11

Removing Trees 8"-12"	2	Each
Removing Trees 13"-24"	1	Each
Removing D.S.R. Track Strip	14.0 ~~15~~	Sq. Yds.
Removing Sidewalk	300 ~~325~~	Sq. Yds.
Removing Curb	268.0 ~~280~~	Lin. Ft.
Removing Pavement	314.0 ~~320~~ ~~333~~	Sq. Yds.
Replacing Sidewalk, 4" Conc.	195.0	Sq. Ft.
Replacing Sidewalk, Temp. 2" Conc.	0	Sq. Ft.
Replacing Curb, Det. 2A	11.5	Lin. Ft.
Replacing Pavement	170.0 ~~215~~ ~~225~~	Sq. Yds.

Rev. By Rec #1

LEGEND

- Removing Curb
- Removing Sidewalk
- Replacing Sidewalk
- Removing Pavement
- Replacing Pavement
- Proposed Pavement
- Proposed Sidewalk
- Existing Foundation Wall
- Existing Concrete Slab
- Existing Basement

HENRY ST. 50 FT. WD. (28' Asph.)

HENRY ST. (40' Asph.)

FIFTH AVE. 50 FT. WD. (28' Asph.)

14 FT. ALLEY (Brick)

Delete by Rec #1

Deleted Rec. 1 L Auth. 1009

P.L.C. LINE WAS RELOCATED AROUND NEW SEWER M.H. SEE WORK ORDER #7.

GRAND RIVER AVE. 100 FT. WD. (75' Asph.)

D.S.R. Track Strip

#1033 #1021 #1015 #1005 #1001-05 #1030 #1026 #1020 #1019

Remove Temp. 2" Walk

Remove 8"x8" Tee

Remove 12"x8" Tee

Remove 12"x12" Tee

Remove 12" Valve

Remove 8" Valve

Remove 6" Valve

Remove 4" Valve

Remove 2" Valve

Remove 8" Hydrant

Remove 6" Hydrant

Remove 4" Hydrant

Remove 2" Hydrant

Remove 2" Gas Valve

Remove 4" Gas Valve

Remove 6" Gas Valve

Remove 8" Gas Valve

Remove 12" Gas Valve

Remove 16" Gas Valve

Remove 20" Gas Valve

Remove 24" Gas Valve

Remove 30" Gas Valve

Remove 36" Gas Valve

Remove 42" Gas Valve

Remove 48" Gas Valve

Remove 54" Gas Valve

Remove 60" Gas Valve

Remove 72" Gas Valve

Remove 84" Gas Valve

Remove 96" Gas Valve

Remove 108" Gas Valve

Remove 120" Gas Valve

Remove 132" Gas Valve

Remove 144" Gas Valve

Remove 156" Gas Valve

Remove 168" Gas Valve

Remove

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(88)154			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	12	

B. P. R. DIV. NO.	STATE.	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

All work this sheet
Control Section 82195D C 12

LEGEND

Removing Curb
Removing Sidewalk
Removing Pavement
Replacing Sidewalk
Replacing Pavement
Proposed Pavement
Existing Foundation Wall
Existing Basement
Existing Concrete Slab
Removing Trees (Size) R

QUANTITIES

Removing Trees 8"-12"	4	Each
Removing Trees 13"-24"	3	Each
Abandoning Catch Basins Incl. Backfill	5	Each
Removing Sidewalk	736.6	Sq. Yd.
Removing Pavement *	13,438	Sq. Yd.
Replacing Sidewalk (4" Concrete)	329.2	Sq. Ft.
Replacing Pavement	391.2	Sq. Yd.
Removing Curb	278.3	Lin. Ft.
Replacing Curb (Detail 2A)	27.9	Lin. Ft.
Removing Masonry & Concrete	197.2	Cu. Yd.
Removing D.S.R. Track Strip	1123	Sq. Yd.
Removing Underground Storage Tanks Incl. Backfill	-0-	Each

*Includes Removal of Temporary Pavement

EARTHWORK: For Basements and Abandoned Miscellaneous Structures.

Excavation (Including Removal of Debris from Basements)	193 Cu. Yds.
Waste	193 Cu. Yds.
Backfill: Porous Material Grade A (C.I.P.)	359 Cu. Yds.
Select Yellow Clay (C.I.P.)**	393 Cu. Yds.
Embankment (121+25%)**	151 Cu. Yds.

Earth Excavation Special for #160 Vernor Hwy. See Sheet # 20.

** To be obtained from Roadway Excavation Sh. # 20

NOTES

1. For Typical Cross Sections of Embankment and Backfill See Sh. # 8.
2. Existing Pavement, Curb and Sidewalk Removed for Utility Alterations which required temporary replacement are included in the estimate quantities for this sheet, but are not shown.
3. The removal of various posts, poles, columns, and trees 7" diameter or less, is incidental to the Contract.

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS

SQUAD LEADER	J.F. HICKEY	12-64
CHECKED BY	C. KNOX	12-64
TRACED BY		
DESIGNED BY	L. LEHTO	12-64
COMPUTED BY		
RECOMMENDED FOR APPROVAL		

REMOVAL ITEMS
SECOND AVE. TO STA. 422+00

FILE NO. USE SAME AS STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	I-75-1(88)154	12

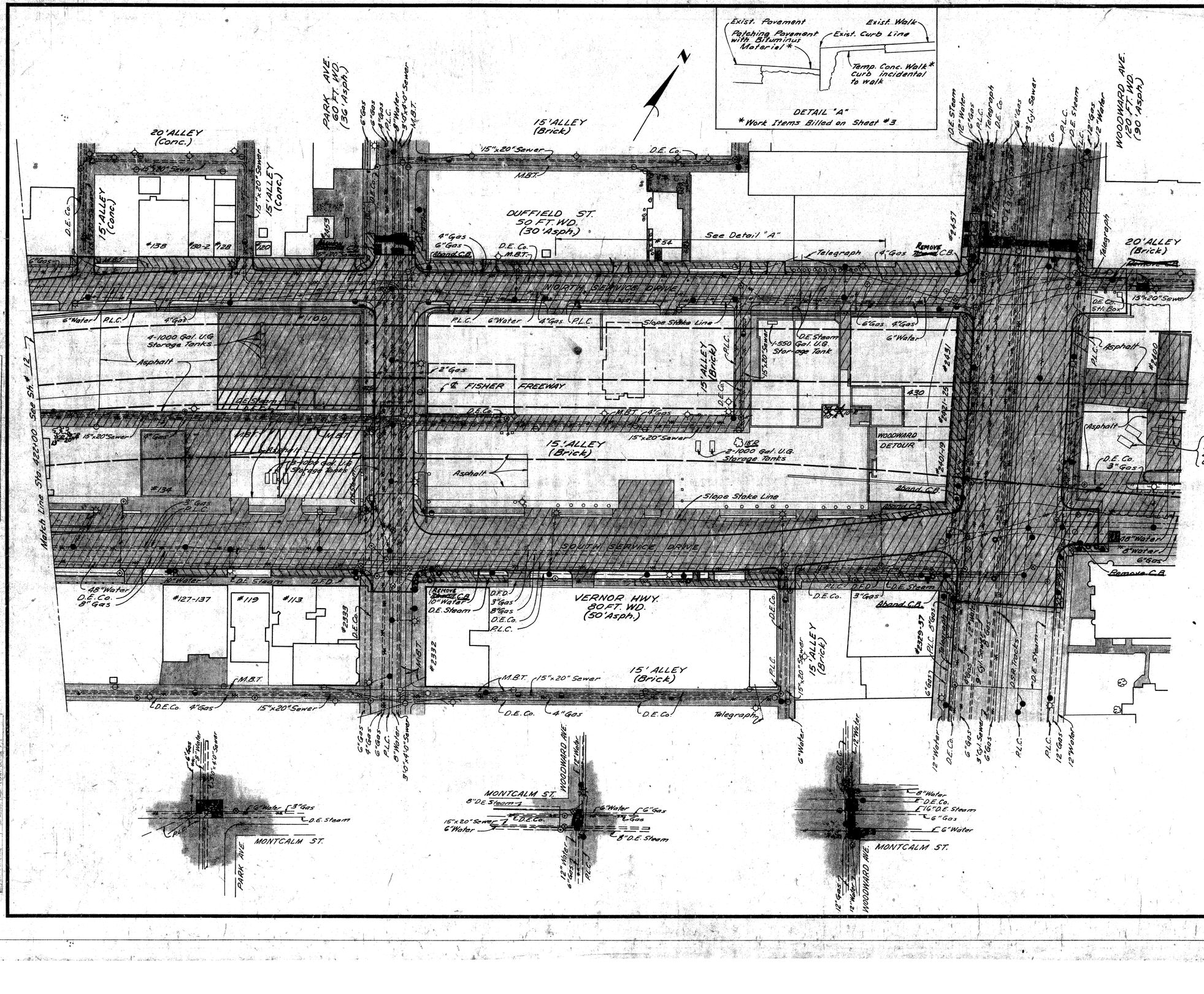
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DESIGNED BY	J.K. WICKEY	12-64
DRAWN BY	T. KNOX	12-64
TRACED BY		
CHECKED BY	C. LEHTO	12-64
CONFLICT		
RECOMMENDED FOR APPROVAL		12-64

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-251(8)154			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	13	

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

All work this sheet
Control Section 82195 D C 12



B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F 75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	14	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

SQUAD LEADER	D. MILZ-J. LINCKEY	12-44
TRAFFIC BY	E. CALTABIANO	12-44
REVISED BY		
CHECKED BY	B. TEWSBURY	12-44
CORRECT	A. Zeman Engr.	12-44
RECOMMENDED FOR APPROVAL		

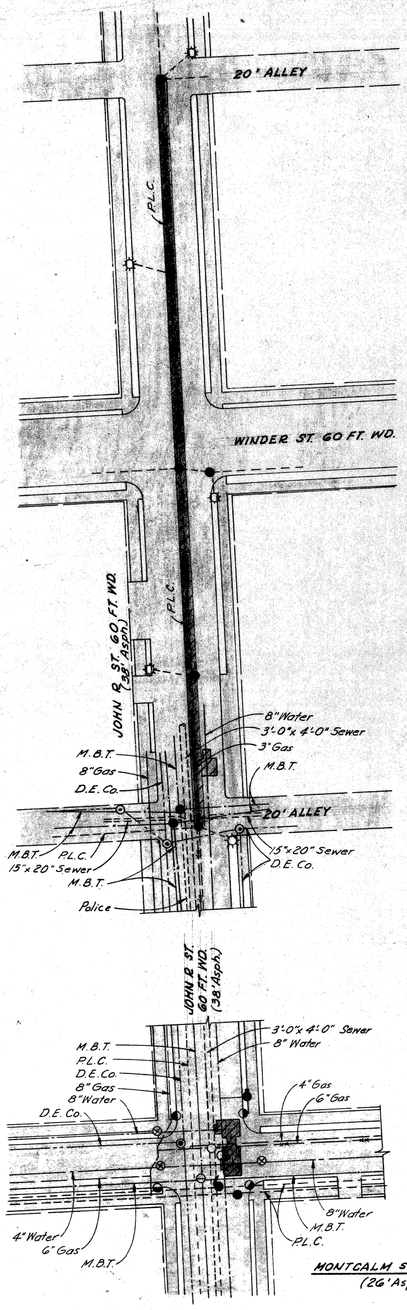
FOR APPROVAL OF TRAFFIC DIVISION

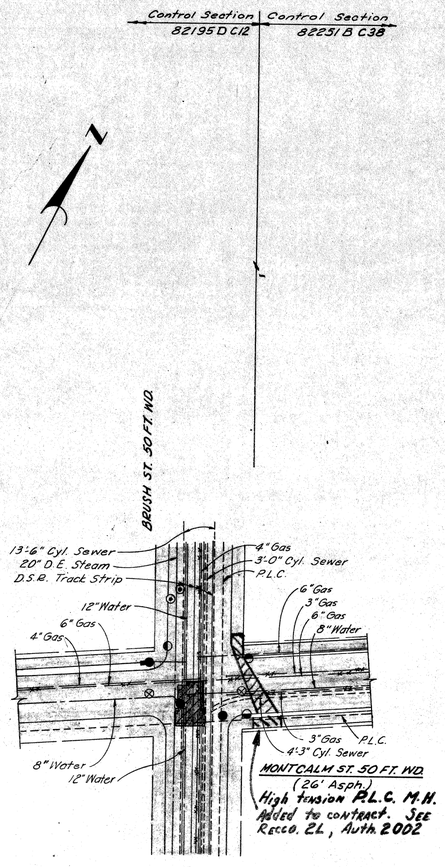
LEGEND

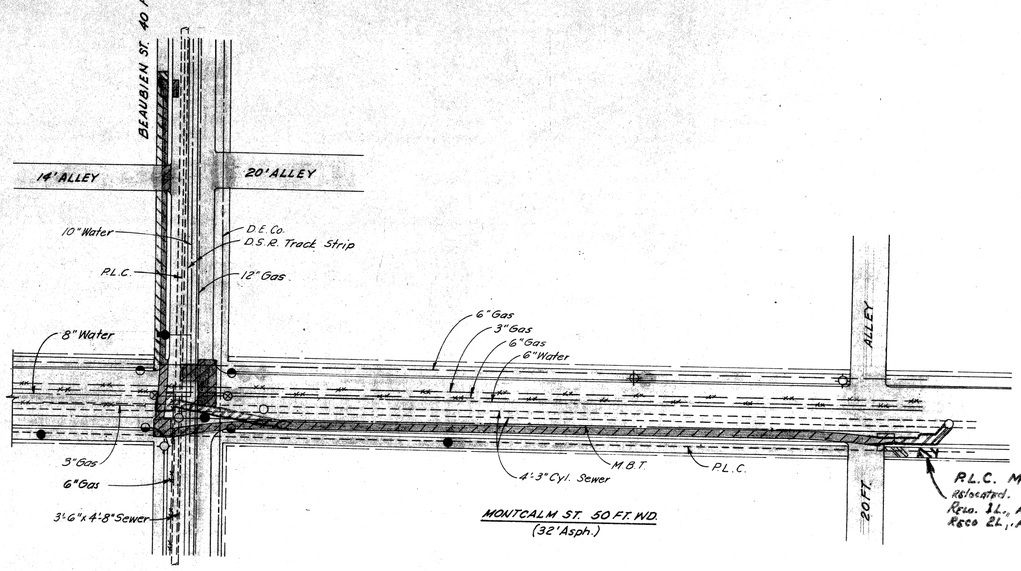
- Removing Sidewalk
- Replacing Sidewalk
- Removing Pavement
- Replacing Pavement

QUANTITIES

	Control Section 82195 D	Control Section 82251 B
Removing D.S.R. Track Strip	10 Sq. Yds.	91 Sq. Yds. 109
Removing Sidewalks	89 Sq. Yds.	81 Sq. Yds. 106
Removing Pavement	153 Sq. Yds.	308 Sq. Yds. 195
Replacing Sidewalk, 4" Conc.	711 Sq. Ft.	396 Sq. Ft. 1105
Replacing Curb, Det. 2A	16.6 Lin. Ft.	46 Lin. Ft. 46
Replacing Pavement	123.2 Sq. Yds.	329 Sq. Yds. 319.6







PLAN
Scale 1" = 40'

REMOVAL ITEMS
WOODWARD AVE. TO ST. ANTOINE ST.

FILE NO. DRC NO. 330 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F 75-1(88)54	14

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DWIGHT W. KINLEY	1944		
F. CALVERT WOOD	1944		
CHARLES E. STEWART	1944		
EDWARD J. HEALY	1944		
EDWARD J. HEALY	1944		
EDWARD J. HEALY

C.B.M.#9 A Elev. 130.84 Arrow on Hydrant.
N.E. corner Third Ave. and Henry St.

C.B.M.#9 A Elev. 131.48 Arrow on Hydrant.
N.W. corner Henry St. and Second Ave.

P.B.M. #29-253 Elev. 120.782 City of Detroit Monument.
22' N & Elizabeth St. and 3' W & Fifth Ave.

P.B.M. #29-253 A Elev. 118.248 City of Detroit Monument.
N.E. corner Elizabeth St. and Third Ave.

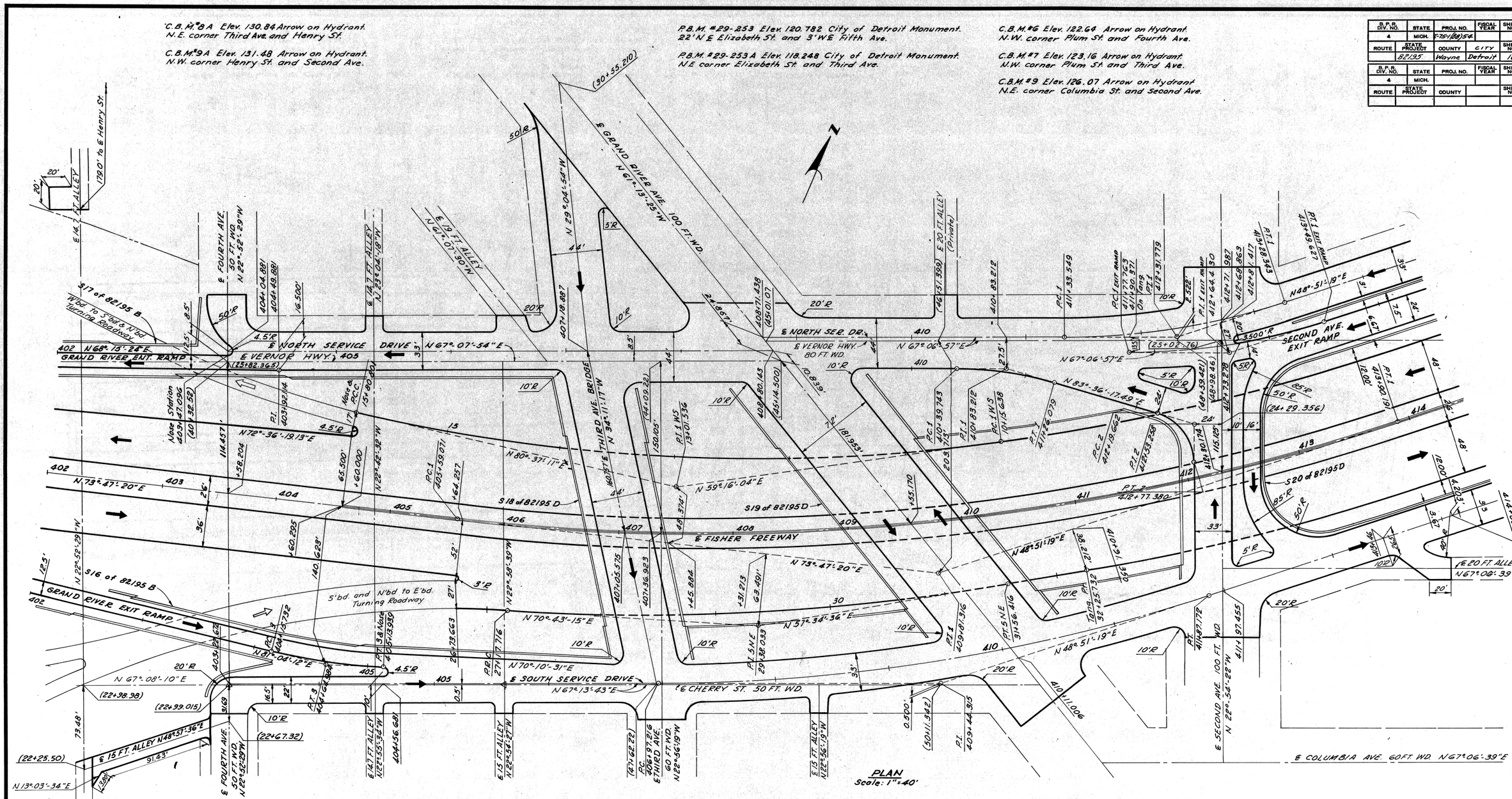
C.B.M.#6 Elev. 122.64 Arrow on Hydrant.
N.W. corner Plum St. and Fourth Ave.

C.B.M.#7 Elev. 123.16 Arrow on Hydrant.
N.W. corner Plum St. and Third Ave.

C.B.M.#9 Elev. 126.07 Arrow on Hydrant
N.E. corner Columbia St. and Second Ave.

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-(108)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	16	

S.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS


E GRAND RIVER AVE. 100 FT. WD.
N 61°-13'-25"W
E 19 FT. ALLEY N 61°-07'-30"W
E 14.7 FT. ALLEY N 23°-04'-18"W
E FOURTH AVE. 50 FT. WD. N 22°-52'-29"W
E 20 FT. ALLEY (Private)
E NORTH SERVICE DRIVE
E VERNOR HWY. 80 FT. WD.
E NORTH SER. DR.
E SOUTH SERVICE DRIVE
E CHERRY ST. 50 FT. WD.
E THIRD AVE. BRIDGE N 34°-11'-11"W
E SECOND AVE. 100 FT. WD. N 22°-54'-22"W
E FISHER FREEWAY
GRAND RIVER EXIT RAMP
SECOND AVE. EXIT RAMP
E FOURTH AVE. 50 FT. WD. N 22°-52'-29"W
E 15 FT. ALLEY N48°-37'-36"E
E 147 FT. ALLEY N 22°-55'-34"W
E 15 FT. ALLEY N 22°-54'-27"W
E 15 FT. ALLEY N 22°-56'-19"W
E 20 FT. ALLEY N 67°-06'-39"E
E COLUMBIA AVE. 60 FT. WD. N 67°-06'-39"E
S17 of 82195 B
S16 of 82195 B
S18 of 82195 D
S19 of 82195 D
S20 of 82195 D
5'bd. and N'bd to E'bd. Turning Roadway
W'bd To S'bd & N'bd Turning Roadway
190'+ to E Henry St.
Note Station 403+41.056 (40+32.58)
(25+82.365)
(22+98.98)
(22+99.015)
(22+67.32)
(22+25.50)
N 13°-03'-34"E
N 68°-13'-24"E
N 67°-07'-54"E
N 67°-06'-57"E
N 83°-36'-17.49"E
N 72°-36'-19.13"E
N 80°-37'-11"E
N 59°-16'-04"E
N 48°-51'-19"E
N 48°-51'-19"E
N 73°-47'-20"E
N 70°-43'-15"E
N 51°-34'-36"E
N 67°-08'-10"E
N 67°-13'-43"E
N 13°-04'-12"E
N 70°-10'-31"E
N 22°-58'-39"W
N 22°-52'-29"W
N 29°-04'-54"W
N 23°-04'-18"W
N 22°-42'-32"W
N 61°-07'-30"W
N 67°-06'-57"E
N 48°-51'-19"E
N 67°-06'-39"E
N 22°-54'-22"W
N 22°-56'-19"W
(30+55.210)
(45+01.07)
(45+14.500)
(45+80.801)
(46+51.359)
(48+98.46)
(49+59.421)
(24+29.356)
(25+02.76)
(24+85.57)
(24+09.32)
(24+39.00)
(24+64.984)
(24+58.204)
(24+64.237)
(24+55.170)
(24+45.884)
(24+91.213)
(24+63.491)
(24+38.033)
(24+56.416)
(24+87.172)
(24+97.216)
(24+44.315)
(24+31.779)
(24+28.343)
(24+26.079)
(24+53.259)
(24+77.380)
(24+77.380)
(24+69.627)
(24+49.627)
(24+39.627)
(24+27.732)
(24+17.716)
(24+38.033)
(24+56.68)
(24+67.32)
(24+99.015)
(22+98.98)
(22+25.50)
(50+11.342)
(24+10.178)
(24+53.238)
(24+19.662)
(24+33.278)
(24+77.380)
(24+77.772)
(24+97.455)
(24+11.006)
(24+03.732)
(24+23.663)
(24+36.923)
(24+07.575)
(24+09.223)
(24+14.223)
(24+17.763)
(24+30.430

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-25-(88)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	17	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

C.B.M.#8 Elev. 124.20 Arrow on Hydrant
S.E. corner Plum St. and Second Ave.

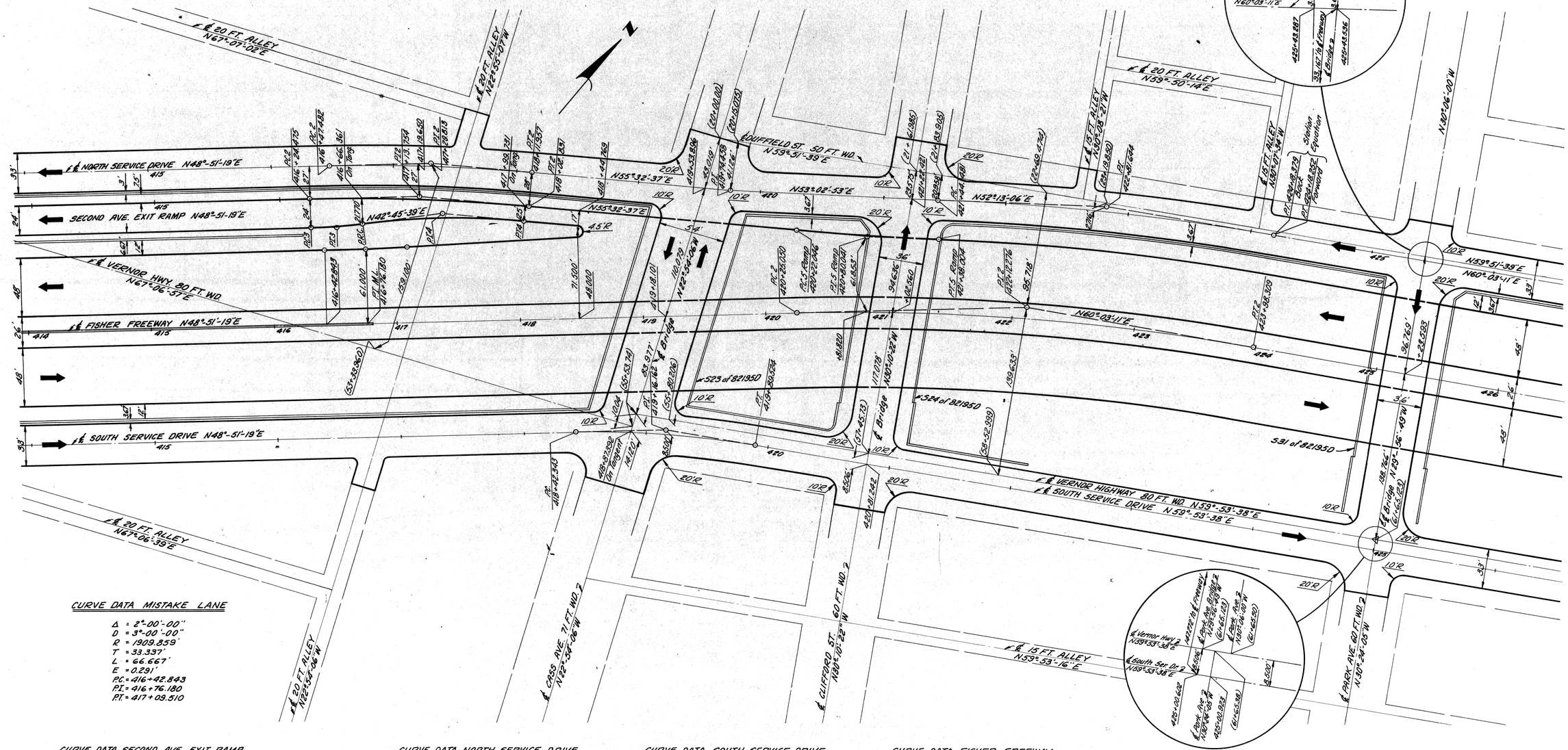
C.B.M.#9 Elev. 126.07 Arrow on Hydrant
N.E. corner Columbia Ave. and Second Ave.

C.B.M.#10 Elev. 125.52 Arrow on Hydrant
South side Columbia Ave. 188' W. of W.P.L. Cass Ave.

C.B.M.#11 Elev. 125.50 Arrow on Hydrant
N.W. corner Columbia Ave. and Cass Ave.

C.B.M.#12 Elev. 125.44 Arrow on Hydrant
N.E. corner Clifford St. and Montcalm St.

C.B.M.#13 Elev. 126.31 Arrow on Hydrant
N.E. corner Park Ave. and Montcalm St.


℄ 20 FT. ALLEY N67°-07'-02"E
℄ 20 FT. ALLEY N22°-55'-07"W
℄ NORTH SERVICE DRIVE N48°-51'-19"E
℄ SECOND AVE. EXIT RAMP N48°-51'-19"E
℄ VERNOR HWY. 80 FT. WD. N67°-06'-31"E
℄ FISHER FREEWAY N48°-51'-19"E
℄ SOUTH SERVICE DRIVE N48°-51'-19"E
℄ DUFFIELD ST. 50 FT. WD. N59°-51'-39"E
℄ 20 FT. ALLEY N59°-50'-14"E
℄ 15 FT. ALLEY N30°-08'-21"W
℄ 15 FT. ALLEY N30°-08'-38"W
N55°-32'-37"E
N42°-45'-39"E
N53°-02'-53"E
N52°-13'-06"E
N22°-54'-04"W
N60°-03'-11"E
N59°-51'-39"E
N59°-53'-38"E
N59°-53'-16"E
N30°-26'-00"W
℄ 20 FT. ALLEY N67°-06'-39"E
℄ 20 FT. ALLEY N22°-53'-06"W
℄ CASS AVE. 71 FT. WD. N22°-53'-06"W
℄ CLIFFORD ST. 60 FT. WD. N30°-10'-22"W
℄ PARK AVE. 60 FT. WD. N30°-24'-05"W
℄ VERNOR HIGHWAY 80 FT. WD. N59°-53'-38"E
℄ SOUTH SERVICE DRIVE N59°-53'-38"E
℄ 15 FT. ALLEY N59°-53'-16"E
Station Equation
℄ Duffield N59°51'39"E
℄ North Service Dr. N60°03'11"E
℄ Park Ave. N30°26'00"W
℄ Bridge
℄ Fwrwd.
℄ Vernor Hwy 2 N59°53'38"E
℄ South Ser. Dr. 2 N59°53'38"E
℄ Park Ave. 2 N30°24'05"W
℄ Park Ave. Bridge 2 N29°56'49"W
℄ Bridge 2
℄ Park Ave. 2 N30°24'05"W
Bench Mark #4272 is 8' Forward
Bench Mark #4273 is 8' Forward
Bench Mark #4274 is 8' Forward
Bench Mark #4275 is 8' Forward
Bench Mark #4276 is 8' Forward
Bench Mark #4277 is 8' Forward
Bench Mark

C.B.M.# 14 Elev. 126.76 Arrow on Hydrant South side Montcalm St. at Fox Theater

C.B.M.# 15 Elev. 127.27 Arrow on Hydrant S.E. corner Woodward Ave. & Montcalm St.

P.B.M.# 29-254 Elev. 123.285 City of Detroit Monument 3'S. of N. & Elizabeth St. & 4' W. of E. & Woodward Ave.

C.B.M.# 16 Elev. 130.64 Arrow on Hydrant North side Montcalm St. 440 E. of E.P.L. Woodward Ave.

C.B.M.# 17 Elev. 131.87 Arrow on Hydrant N.E. corner John R. St. & Montcalm St.

P.B.M.# 29-254.A Elev. 121.048 City of Detroit Monument 3'S. of N. & Elizabeth St. & 4' W. of E. & John R. St.

C.B.M.# 13A Elev. 133.45 Arrow on Hydrant North side Henry St. 220' W. of W.P.L. Woodward Ave.

C.B.M.# 14A Elev. 133.67 Arrow on Hydrant S.E. corner Woodward Ave. & Winder St.

C.B.M.# 15A Elev. 136.62 Arrow on Hydrant N.E. corner Winder St. & John R. St.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F25-1(88) 54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	18	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

& HENRY ST. 50 FT. WD. N 59°-50'-08" E

& 15 FT. ALLEY N 30°-03'-10" W

& 15 FT. ALLEY N 59°-49'-55" E

N 26°-42'-04" W

& WINDER ST. 60 FT. WD. N 60°-10'-17" E

N 29°-47'-13" W

& DUFFIELD ST. 50 FT. WD. N 59°-51'-39" E

& NORTH SERVICE DRIVE N 60°-03'-11" E

& 20 FT. ALLEY N 60°-08'-08" E

N 58°-23'-57" E

N 58°-23'-57" E

& FISHER FREEWAY N 60°-03'-11" E

N 60°-03'-11" E

N 65°-03'-11" E

& JOHN R. EXIT RAMP N 60°-03'-11" E

N 66°-28'-11" E

N 60°-03'-11" E

& VERNOR HWY. 80 FT. WD.

N 60°-06'-29" E

N 60°-03'-11" E

& VERNOR HWY. 80 FT. WD N 59°-53'-38" E

N 53°-17'-14" E

& SOUTH SERVICE DRIVE N 59°-53'-38" E

& 15 FT. ALLEY N 30°-01'-22" W

& WOODWARD AVE. 120 FT. WD. N 26°-45'-12" W

& 15 FT. ALLEY N 59°-53'-16" E

& JOHN R. ST. 60 FT. WD. N 30°-23'-24" W

PLAN

Scale: 1" = 40'

NOTES:

All street returns 15' Radius unless otherwise noted.

All alley returns 4' Radius unless otherwise noted.

Stations shown in brackets thus ( ), refer to survey stationing.

Bench Marks are based on City of Detroit datum.

CURVE DATA SOUTH SERVICE DRIVE

Δ = 6°-36'-24"	Δ = 6°-45'-57"
D = 5°-37'-30"	D = 5°-37'-30"
R = 1018.592'	R = 1018.592'
T = 58.791'	T = 60.211'
L = 117.452'	L = 120.281'
E = 1.695'	E = 1.778'
P.C. = 427+57.202	P.C. = 429+35.257
P.I. = 428+15.993	P.I. = 430+55.468
P.T. = 428+74.654	P.T. = 431+15.538

CURVE DATA MISTAKE LANE

Δ = 2°-00'-00"
D = 3°-00'-00"
R = 1909.859'
T = 33.337'
L = 66.667'
E = 0.291'
P.C. = 433+50.490
P.I. = 433+83.827
P.T. = 434+17.157

CURVE DATA JOHN R. EXIT RAMP

Curve 1	Curve 2	Curve 3	Curve 4
Δ = 5°-00'-00"	Δ = 5°-00'-00"	Δ = 6°-25'-00"	Δ = 6°-25'-00"
D = 2°-00'-00"	D = 4°-00'-00"	D = 5°-58'-53.99"	D = 5°-58'-53.99"
R = 2864.789'	R = 1432.394'	R = 957.857'	R = 957.857'
T = 125.079'	T = 62.540'	T = 53.692'	T = 53.692'
L = 250.000'	L = 125.000'	L = 107.272'	L = 107.272'
E = 2.729'	E = 1.363'	E = 1.504'	E = 1.504'
P.C. = 427+66.369	P.C. = 431+74.878	P.C. = 436+54.385	P.C. = 437+61.657
P.I. = 428+91.448	P.I. = 432+37.418	P.I. = 437+08.077	P.I. = 438+15.349
P.T. = 430+16.369	P.T. = 432+99.878	P.T. = 437+61.657	P.T. = 438+68.929

CURVE DATA NORTH SERVICE DR.

Δ = 1°-39'-14"
D = 3°-00'-00"
R = 1909.859'
T = 27.567'
L = 55.130'
E = 0.199'
P.C. = 435+54.221
P.I. = 435+81.788
P.T. = 436+09.351

ALIGNMENT OF FISHER FREEWAY

STATION 426+00 TO STATION 439+00

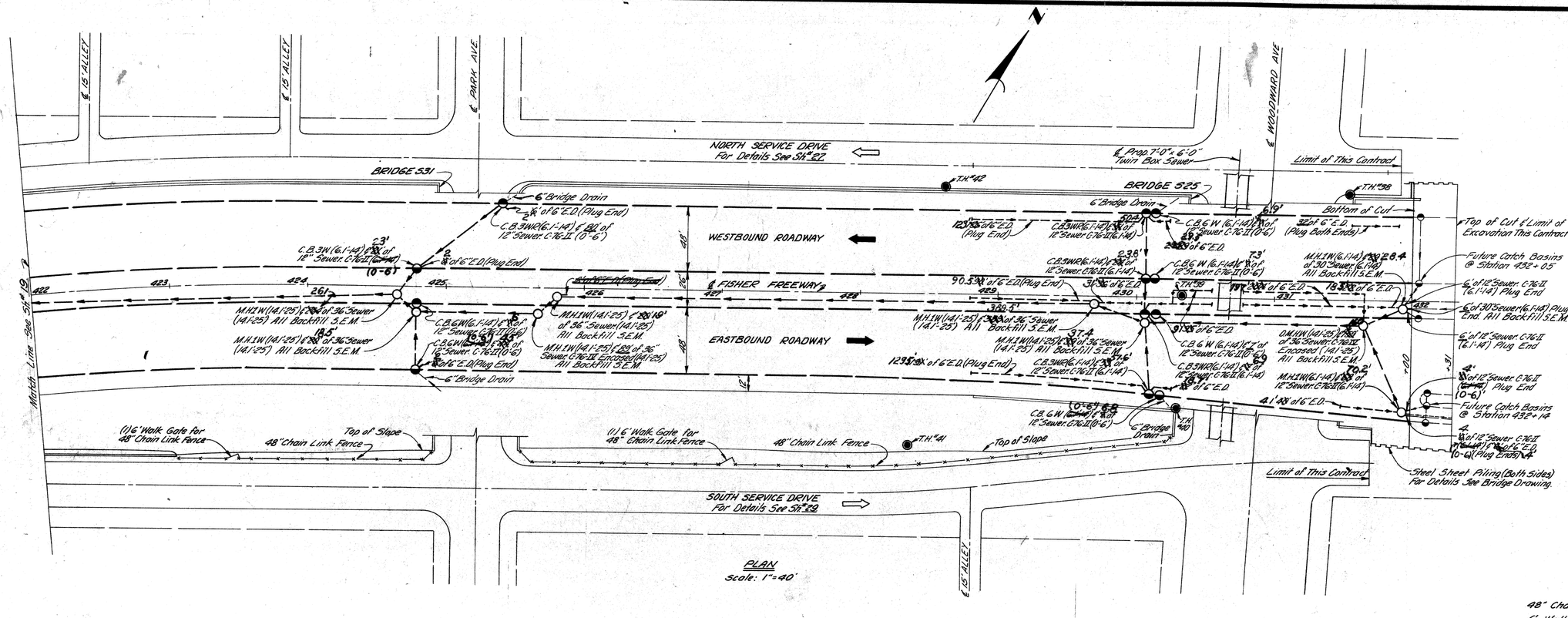
FILE NO. 138 NO. 2-580 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-25-1(88) 54	18

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-251(8A)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	22	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures. Unless otherwise noted Porous Material Grade A, Backfill is required. Use Selected Excavated Material if noted S.E.M.

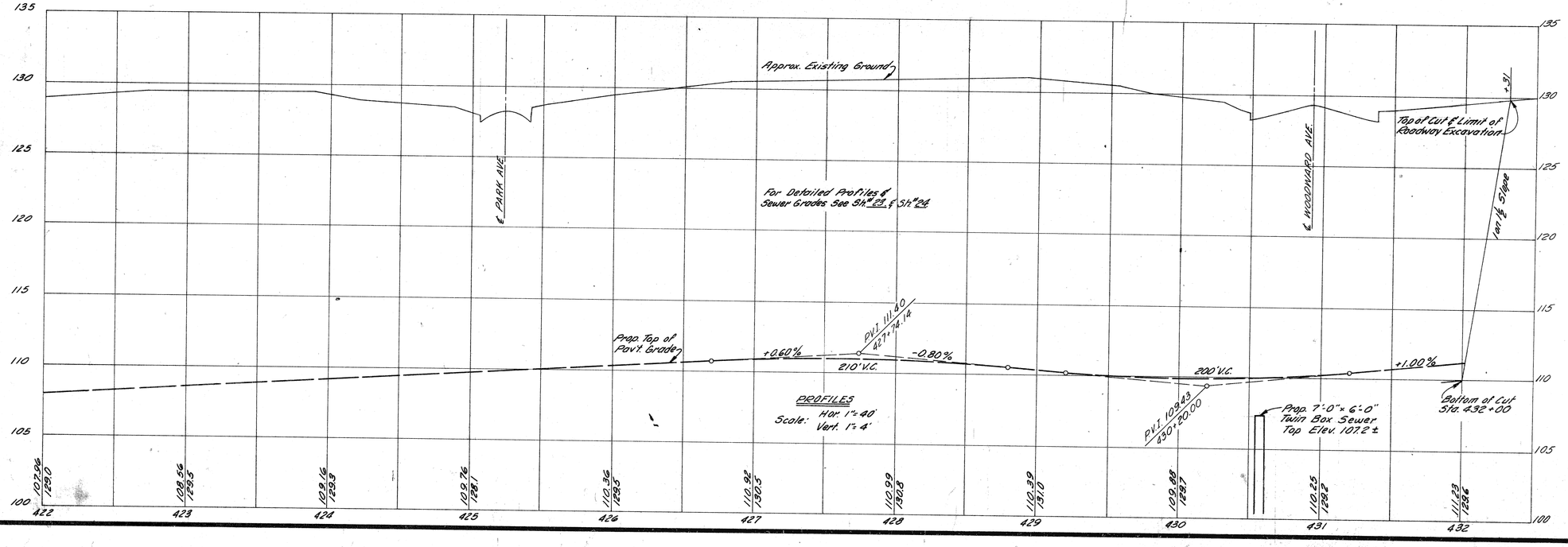
ALL WORK THIS SHEET CONTROL SECTION 82195D-C 12



PLAN
Scale: 1"=40'

FENCE (This Sheet)

48" Chain Link Fence . . . . . 659 Lin. Ft.
6' Walk Gates for 48" Chain Link Fence . . . . . 2 Each



NOTES:

1. For Alignment See Sh.# 17 & Sh.# 18
2. For Log of Soil Borings (Symbol ◉) See Bridge 531 and 525 of 82195DC12
3. For Construction Sequence See Sh.# 3

FISHER FREEWAY ITEMS

STA. 422+00 TO STA. 432+31

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	BY	DESCRIPTION
12-22	J.V. WICKEY	
12-22	M. PRATO	
12-64	J.V. WICKEY	
12-64	Allan E. Fagan	

SCALES ESTABLISHED BY: J.V. WICKEY
DRAWN BY: M. PRATO
TRACED BY:
CORRECTED BY: J.V. WICKEY
RECOMMENDED FOR APPROVAL: Allan E. Fagan
DIV. ENGR. HIGHWAYS
DIV. ENGR. STRUCTURES
DIV. ENGR. TRAFFIC & SAFETY
DIV. ENGR. RIGHT OF WAY
DIV. ENGR. MATERIALS & TESTS
DIRECTOR OF PUBLIC WORKS

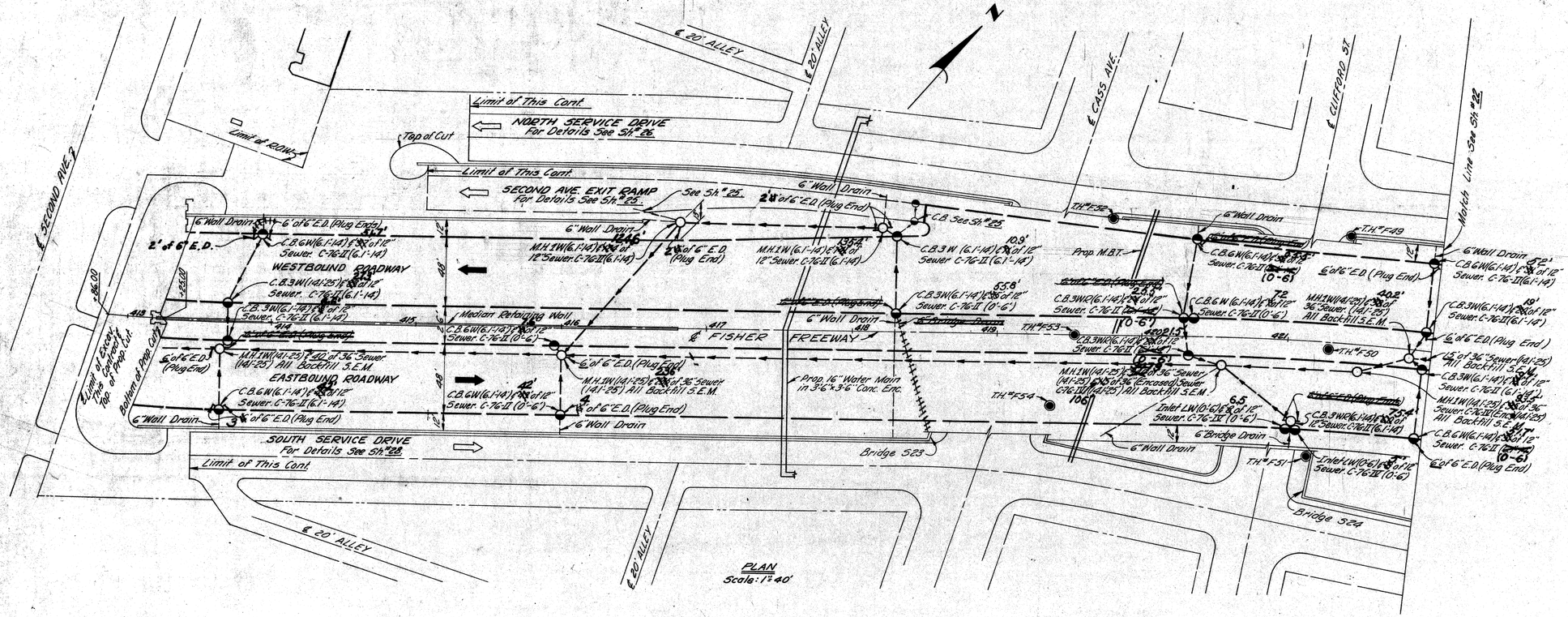
FILE NO. USE NO. 380 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	F-251(8A)54	22

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	19	

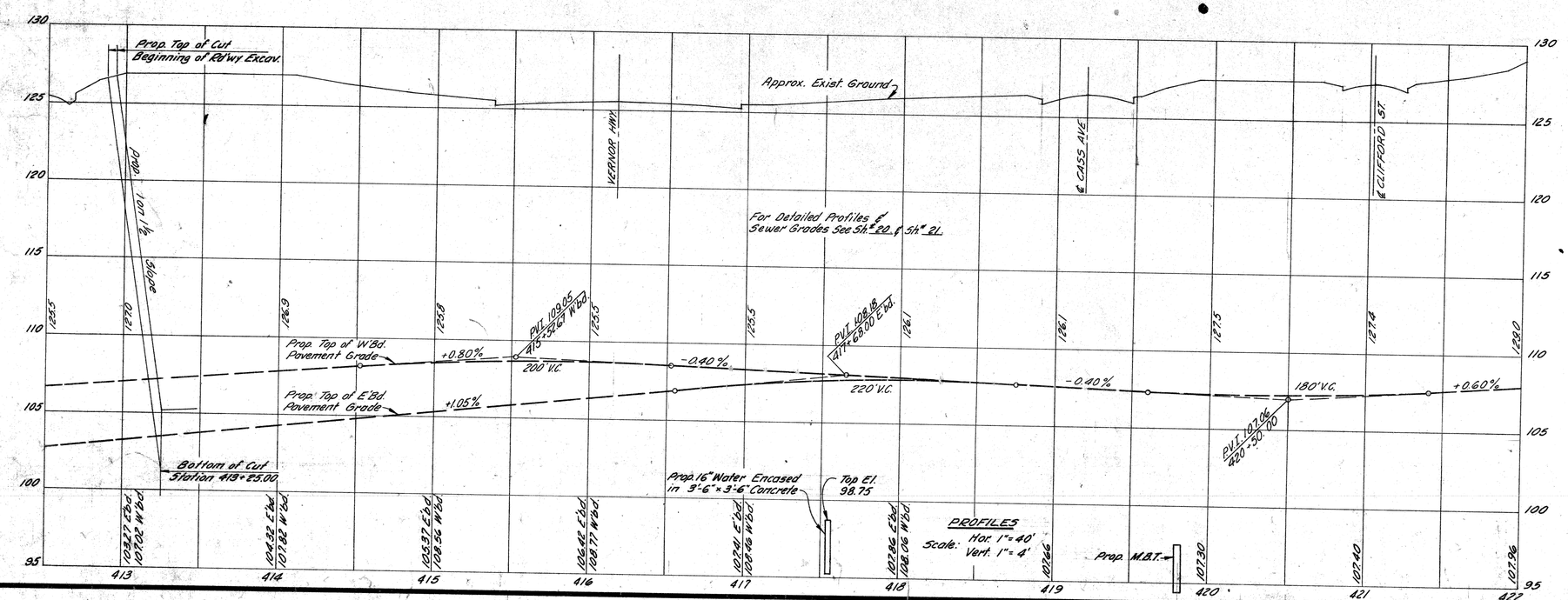
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures, Unless otherwise noted, Porous Material Grade A, Backfill is required. Use Selected Excavated Material if noted S.E.M.

ALL WORK THIS SHEET
CONTROL SECTION 82195D-C12



PLAN
Scale: 1"=40'



NOTES:
1. For Alignment See Sh.# 16 & Sh.# 17
2. For Log of Soil Borings (Symbol ◉) See Bridge 523 & 524 at 82195D-12
3. For Construction Sequence See Sh.# 3

FISHER FREEWAY ITEMS
STA. 412 + 86 TO STA. 422 + 00

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	F-75-1(88)54	12

J.V. WICKEY
M. MOLITO
J.V. WICKEY
Chief Engr.
12-60
12-60
12-60

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	21	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

ALL WORK THIS SHEET
CONTROL SECTION 82195 D-C-I-2.

EARTH EXCAVATION, LOSSES, WASTE, Etc.
For This Sheet are Included with Roadway
Sheet No 20

Prop. Future Edge of Pavement & Elevations for Northbound Fisher Freeway

Prop. Future Top of Pavement Grade & Elevations for Westbound Fisher Freeway

Future Edge of Pavement

Future Top of Pavement Grade

6" Wall Drain Inlet 101.7
6" E.D. @ +1.60% Inlet 102.1
6" E.D. @ -0.40% Inlet 100.8
Outlet 100.3

6" Wall Drain Inlet 105.8
6" E.D. Inlet 103.4
From Exit Ramp @ +2.00% See Sh. #20
Inlet 102.4

6" Wall Drain Inlet 103.9
6" E.D. @ +0.40%
Inlet 103.5
6" E.D. @ -0.40% Inlet 103.7
From Exit Ramp See Sh. #20
Inlet 102.0
Inlet 101.0
Outlet 100.8

To MH 1A Station 416+00 See Sh. #20
Inlet 99.5
Outlet 99.2

Top Elev. 98.75
Outlet 100.4
Inlet 100.6

Prop. 16" Water Encased in 3'-6"x3'-6" Conc.

Inlet 103.9
6" E.D. @ -0.40%
6" Bridge Drain 102.5
& 6" Wall Drain 102.5
Outlet 102.3

Prop. Water

6" Wall Drain Inlet 104.2
6" E.D. @ +0.60%
Inlet 104.0
Outlet 102.2

Prop. M.B.T. Duct

6" Wall Drain Inlet 105.2
6" E.D. @ +0.40%
Inlet 104.4
Outlet 102.8

6" E.D. Inlet 102.9
Outlet 101.8
Inlet 101.6
Outlet 101.4 See Sh. #20
Inlet 101.6

Inlet 102.6
6" E.D. Inlet 101.8
To MH 1A Sta. 421+85 See Sh. #20
Outlet 100.4

Prop. M.B.T. Duct

500' Superelevation Transition
From r=0.05% @ Sta. 411+90.19 to r=0.00 @ Sta 416+90.19

466.58' Superelevation Transition

PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

FISHER FREEWAY
WESTBOUND ROADWAY PROFILES
STA. 412+86 TO STA. 422+00

FILE NO. 138 NO. 330 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	I-75-1(88)54	21

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	BY	
		PRELIMINARY RECOMMENDED
		PRELIMINARY APPROVED
		FINAL DESIGN RECOMMENDED
		FINAL DESIGN APPROVED
		PLANS REVIEWED
		QUANTITIES CHECKED
		QUANTITIES APPROVED
		GRADE INSPECTION
		FEDERAL INSPECTION

DATE	BY	
7-68	J.V. WICKERT	DESIGNED
12-68	M. ZOLTAN	TRACED
12-68	N. McLEAN	CHECKED
12-68	Allen E. Sayer	APPROVED

DATE	BY	
		ESTIMATED
		CHECKED
		RECOMMENDED FOR APPROVAL
		APPROVED
		CONCUR
		ASSOC. ENGR. - ZONE
		DIR. ASSOC. ENGR. - DIVISION

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(80)54			
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
	82192	Wayne	City of Detroit	20	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

ALL WORK THIS SHEET
CONTROL SECTION 82195D-C12

500' Superelevation Transition
From r=0.05 ¼ @ Sta. 411+90.13 to r=0.00 @ Sta. 416+90.13

466.57 Superelevation Transition

Prop. Future Edge of Pavement Elevations for South Edge of 2 Eastbound Fisher Freeway

Future Top of Pavement Grade

Future Edge of Pavement

6"E.D.@+0.70%
Inlet 102.3
Inlet 100.8
Outlet 100.8
Inlet 100.6
From MH 1A Sta. 416+82 See Sh.# 21
Inlet 97.2
Prop. 16" Water Encased in 3'-6" x 3'-6" Conc.
6"E.D.@+1.00%
6"E.D.@-0.40%
Inlet 99.9
Inlet 98.6
Inlet 90.4
Inlet 94.1
Inlet 94.5 See Sh.# 21
Outlet 94.3
36" Sewer @+0.47%
Inv. 86.72
Inlet and Outlet 86.91
36" Sewer @+0.40%
36" Sewer @+0.34%
Inlet and Outlet 87.85
6" Wall Drain Inlet 102.3
Inlet 101.2 See Sh.# 21
Outlet 101.0
Inlet 100.8
Inlet 99.2
Prop. M.B.T. Duct
36" Sewer @+0.34%
36" Sewer @+0.34% (Encased)
36" Sewer @+0.30% (Encased)
Outlet 89.69
Inlet 89.89
Inlet 100.2 See Sh.# 21
Inlet 99.8
Outlet 99.6
Inlet 99.4
36" Sewer @+0.25% See Sh.# 23
Inv. 90.24
Inlet 90.20
Outlet 90.00

6" Wall Drain Inlet 101.4
6"E.D.@-0.40%
Inlet 101.2
6"E.D.@+0.70%
Inlet 100.6
Outlet 98.8
6" Wall Drain Inlet 102.3
6"E.D.@+0.70%
Inlet 102.3
Outlet 101.0
Prop. Water
Prop. M.B.T. Duct
6" Bridge Drain Inlet 102.6
Inlet 102.3
6"E.D.@-0.90%
Inlet 102.2
6"E.D.@+0.40%
Inlet 100.8
Outlet 99.5
6"E.D.@+1.00%
Inlet 100.9
Outlet 100.0
Outlet 102.9
Outlet 102.0

PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

E'BD & W'BD FISHER FREEWAY	
EARTH EXCAVATION SPECIAL	80 C.Y.
*EARTH EXCAVATION	118,318 C.Y.
LOSSES	
Select Yellow Clay (C.I.P.)	
Removal Sh.# 12	393
Embankment + 25%	
Removal Sh.# 12	151
Total Losses	544 544
WASTE	117774 C.Y.

* Includes CASS & CLIFFORD DETOUR Excavations within General Roadway Excavation Limits

FISHER FREEWAY
EASTBOUND ROADWAY PROFILES
STA. 412+86 TO STA. 422+00

FILE NO. USE NO. 380 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	I-75-1(80)54	20

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE | BY
RECOMMENDED FOR APPROVAL
CHIEF ENGINEER
PLANS PREPARED
PLANS CHECKED
FINAL DESIGN CHECKED
TRACED
QUANTITIES CALCULATED
QUANTITIES CHECKED
EQUAD
PRELIMINARY R.O.W. COMPUTED
FINAL R.O.W. COMPUTED
PRELIMINARY LAYOUT
FINAL LAYOUT
GRADE INSPECTION
PEDESTRIAN INSPECTION

12-60 J.V. WICKEY
12-60 M. POLITO
12-60 A. MARLEIN
12-60 Assistant Engineer of Design
DESIGN | CHK. DESIGN | DRAWN | CHK. DRAWN
SR. ASSOC. ENGR.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	WAYNE	Detroit	23	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

ALL WORK THIS SHEET
CONTROL SECTION 82195 D-C12

466.58 Superelevation Transition

466.58 Superelevation Transition

Prop. Edge of Pavement & Centerline for South Edge of Eastbound Fisher Freeway

Prop. Edge of Pavement & Centerline for South Edge of Eastbound Fisher Freeway

Inlet 1042
Outlet 1042
Inlet 1040
Inlet 1032
6"E.D. See Plan
Inlet 1063
Outlet 1021
Inlet 1023 See Sht. 22
6"E.D.@+0.57%
Inlet 1035
6"E.D.
Inv. 1035
Inlet 1021
6"E.D.@+0.47%
Inlet 1031
Inlet 1019
Inlet 1018
Inlet 1008
Inlet 1002
Inlet 1003
Outlet 100.35
6"E.D.@-0.40%
Inlet 1034
30" Sewer @+0.36%
30" Sewer @+0.30%
(C) Inlets 101.7
Prop. 7'-0" x 6'-0" Twin Box Sewer
36" Sewer @+0.25%
36" Sewer @+0.23% (Encased)
36" Sewer @+0.23%
Outlet 90.80
Inlet 91.10
Inlet 91.95
Outlet 91.13
Inlet 92.00
Outlet 91.80
Inlet 91.75
Outlet 91.55
Inv. 90.74 See Sht. 20
36" Sewer @+0.20%
36" Sewer @+0.20% (Encased)
Outlet 92.89
Inlet 93.09
Inlet 93.37
Outlet 93.17
Outlet 93.69
6"E.D. See Plan
Inlet 1063
Outlet 1042
Inlet 1023 See Sht. 22
Outlet 1021
6"Bridge Drain Inlet 1070
Inlet 1050
Inlet 1040
Inv. 1032
Inv. 1028
Inlet 1022
Outlet 1017
Outlet 1042
6"E.D.@-0.40% Inlet 1036
6"E.D.@+0.80% Inlet 1031
Inlet 1024
Outlet 101.1
12" Sewer @+0.40% Inlet 101.3
6"Bridge Drain 105.5
6"E.D.@+0.18% Inlet 1083
Outlet 1083
Outlet 103.4
Prop. 7'-0" x 6'-0" Twin Box Sewer

EBD & WBD FISHER FREEWAY

EARTH EXCAVATION SPECIAL	250 C.Y.
**SUBBASE	917 C.Y.
*EARTH EXCAVATION	141,662 C.Y.
LOSSES	
Embankment +25%	
This Sheet	323
Removal Sheet #13	91
Total Losses	414
WASTE	141,248 C.Y.

* Includes WOODWARD AVE. DETOUR Excavation within General Roadway Excavation Limits
** Placed at Woodward Ave over the Bridge Subbase Slab and Bridge Footings

PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

FISHER FREEWAY
EASTBOUND ROADWAY PROFILES
STA. 422+00 TO STA. 432+31

FILE NO. USE NO. 350 SPENCIL	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	I-75-1(88)54	23

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

DATE	BY	REVISIONS
		ELEVATIONS
		ALIGNMENT
		GRADE
		PROFILE OF ROADWAY
		CROSS SECTIONS
		PAVEMENT DESIGN
		STRUCTURAL INSPECTION

DATE	BY	REVISIONS
12-64	J.V. HICKEY	FINAL R.O.W. CHECK
12-64	M. BALTO	CUT-OUTLINES
12-64	N. McLEAN	CUT-OUTLINES CHECKED
12-64	William E. Bagwell	SEALED

DESIGNED BY
PLANS PREPARED BY
FIELD BY
CHECKED BY
APPROVED
DIR. APPROVAL

S.F.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-151-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	24	

S.F.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

ALL WORK THIS SHEET
CONTROL SECTION 82195D-C12

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FIELD INSPECTION		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL R.O.W. PLOTTED		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

J. H. WICKEY — 12-64
M. PALLID — 12-64
N. McLEAN — 12-64
Wm. E. Layer — 12-64

STATE OF MICHIGAN
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
EXPRESSWAYS

466.58' Superelevation Transition

466.58' Superelevation Transition

Prop. Future Edge of Pavement & Elevation For North Edge of Westbound Fisher Freeway

Prop. Future Top of Pavement Grade & Elevation For Westbound Fisher Freeway

6" Bridge Drain Inlet 107.0
6" E.D.@+0.4% Inlet 105.8
Outlet 104.3

6" Bridge Drain Inlet 107.0
6" E.D.@+0.4% Inlet 105.3
Outlet 104.4
Inlet 104.2
Prop. 7'-0"x6'-0" Twin Box Sewer
6" E.D.
Inv. 103.9
Inlet 103.4
Outlet 102.9
6" E.D.
Inv. 104.0
Inv. 103.8

6" E.D.@+0.7% Inlet 105.4
Inlet 103.9
Outlet 103.0 See Sh. #23

Outlet 104.4
Inlet 104.2
Prop. 7'-0"x6'-0" Twin Box Sewer
Inlet 102.7
Outlet 102.2 See Sh. #23

EARTH EXCAVATION, LOSSES, WASTE, Etc. For This Sheet are Included with Roadway Sheet No 23

PROFILES
Scale: Hor. 1"=50'
Vert. 1"=4'

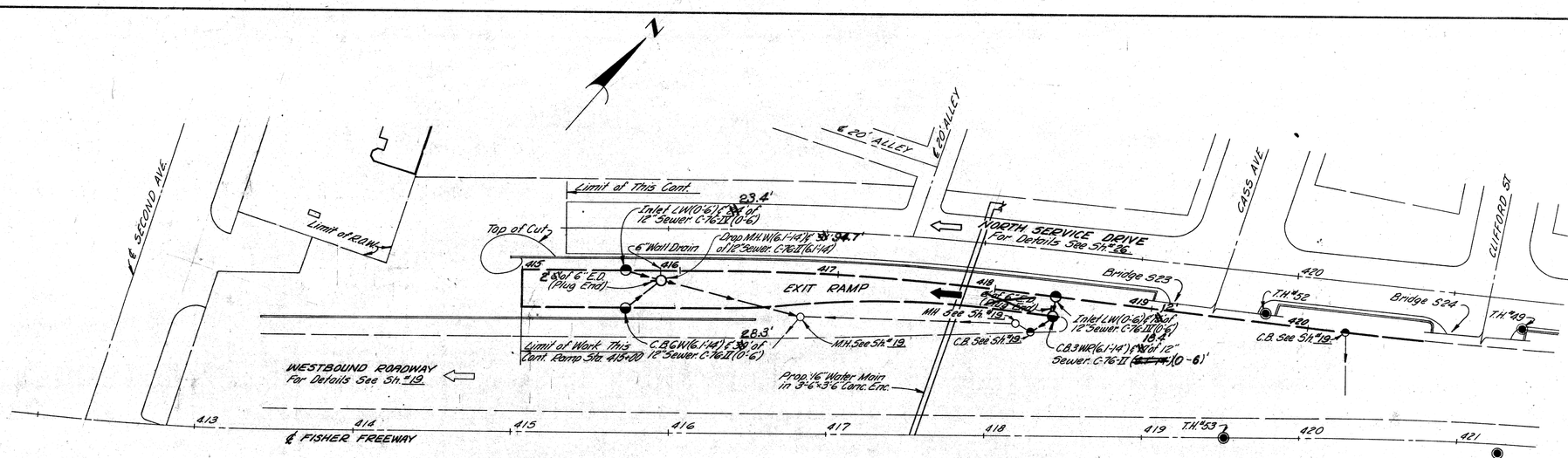
FISHER FREEWAY
WESTBOUND ROADWAY PROFILES
STA. 422+00 TO STA. 432+31

FILE NO. USE NO. 350 STENCIL	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-151(88)54	24

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	25	

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures. Unless otherwise noted, Porous Material Grade A Backfill is required.



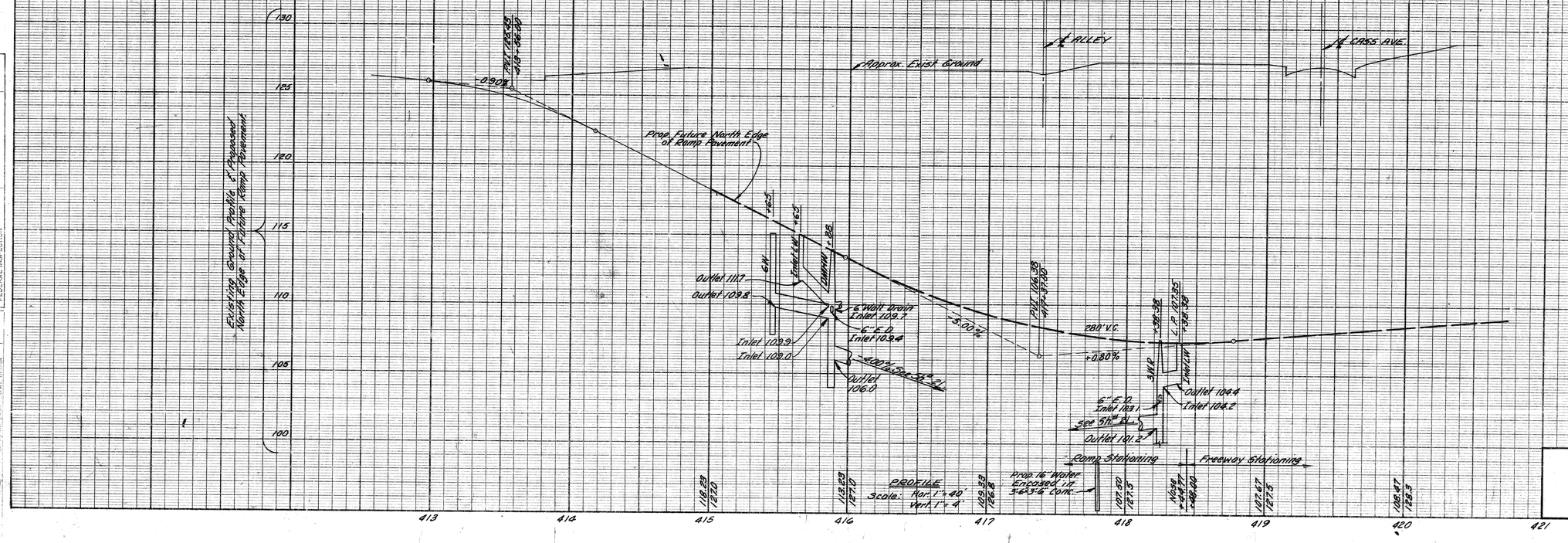
PLAN
Scale: 1"=40'

NOTES:

1. For Alignment See Sh. #17.
2. For Soil Borings (Symbol ◉) See Bridge S23 & S24 of 82195 D C12
3. For Construction Sequence See Sh. #3

ALL WORK THIS SHEET
CONTROL SECTION 82195 D-C12

EARTH EXCAVATION	8565 C.Y.
LOSSES	0
WASTE	8565 C.Y.



PLAN AND PROFILE FOR SECOND AVENUE EXIT RAMP

FILE NO. IBM NO. 360 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-75-1(88)54	25

OPERATION	BY	DATE
PRELIMINARY & O. W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED		
FINAL & O. W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUARED		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN DRAFTED		
PLAN CHECKED		
PROFILE DRAFTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FINAL GRADE CHECKED		

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

J. V. HICKEY	12-60	
M. DOLITO	12-60	
M. ALLEN	12-60	
Allen E. Pagen	12-60	

ASSISTANT ENGINEER OF HIGHWAYS
ASSISTANT ENGINEER OF HIGHWAYS
ENGINEER OF HIGHWAYS
ENGINEER OF HIGHWAYS
APPROVED
BUREAU ENGINEER - HIGHWAYS DIVISION

C.B.M.#9 Elev. 126.07 Arrow on Hydrant N.E. corner Columbia Ave. and Second Ave.

C.B.M.#9A Elev. 131.48 Arrow on Hydrant N.W. corner Henry St. and Second Ave.

C.B.M.#12 Elev. 125.44 Arrow on Hydrant N.E. corner Clifford St. and Montcalm St.

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and for Drainage Structures. Unless otherwise noted, Porous Material Grade A Backfill is required.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	city	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	26	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement.

STATION	Remove Exist. Asphalt Surface (Sq. Yds.)	Replace With Bit. Conc. Pav't. (Sq. Yds.)
419 + 54	388 73.1	388 73.1
421 + 22	447.6	447.6
TOTALS	1885 120.7	1885 120.7

189 Tons Bit. Conc. Wearing Course 3AA 2.5A
0 Tons Bit. Conc. Leveling Course
215 Gals. Bit. Bond Coat

STATION @ ℄ Opening	Conc. Drive Return, Det. 15 (Lin. Ft.)	Driveway Opening, Det. 19 (Lin. Ft.)
415 + 55	—	30
417 + 56	37.2	—
TOTALS	37.2	30

148.5 1X2 Lin. Ft. Det. 2 Conc. Curb
100.9 1X0 Lin. Ft. Det 2-A Conc. Curb
4,494.4 4X45 Sq. Ft. 4" Conc. Walk
318.1 388 Sq. Ft. 7" Conc. Walk
9 Cu. Yds. (C.I.P.) Cl. A A Shoulders
8.6 8 Tons Bit. Agg. Shoulders (Conc. Pav't.)
0 15 Gals. Bit. Prime Coat

NOTES:
1. For Alignment See Sh.# 17
2. [redacted] Existing Sidewalk to remain
3. For Detour Pavement See Sh.# 30 & Sh.# 31

91.4 Sq Yds. A [redacted] of Class A Sodding has been USED [redacted] to Replace Lawn Area used as an Easement for the Cass Ave. Detour.

SECOND AVE 66' Asph.
20' ALLEY (Brick)
Ex. 13'-2" Comb. Sewer
Ex. C.B.
#468
#2400
Det. 19 & 7' Sidewalk
Prop. 5 MH
Limit of R.O.W.
5'-40 Barricade Billed on Sh.# 9
C.B.3 MT (6.1'-14') & 22.1' W. of 12" Sewer C76-II (0'-6')
C.B.3 DT (6.1'-14') & 5.09' W. of 12" Sewer C76-II (0'-6')
Sidewalk
Det. 15
Prop. 5 MH
Surfaced Shoulder (Typ.)
DMHAD (25° Skew) & 32.47' W. of 12" Sewer (14'-25') & (1) 12" Sewer Tap
Prop. 16" Water Main in 3'-6" Conc. Enc.
Point of Beginning Station 415+35.00
NORTH SERVICE DRIVE
For Detailed Grades See Sh.# 38
C.B.3 ADT (6.1'-14') & 44.5' of 12" Sewer C76-II (6.1'-14') & 1-12" Sewer Tap (W.O.11)
66' of Bridge Header, Det. 21
Bridge 5'-3"
Bridge 5'-6"
℄ FISHER FREEWAY For Details See Sh.# 19
415
420
Ex. 1'-10" x 2'-5" Comb. Sewer
#2460-72
#2447
See Note #2
Conc. Curb, Det. 2A
Conc. Curb, Det. 1A
CASS AVE. 50' Asph.
#2450
#2445
C.B.3 MT (6.1'-14') & 28.6' of 12" Sewer C76-II (6.1'-14')
Prop. 27" San. Sewer
Prop. 5 MH
Prop. 24" San. Sewer
Prop. 36" San. Sewer
Det. 1A
#2432
#2422
C.B.3 MT (6.1'-14') & 78.2' of 12" Sewer C76-II (6.1'-14')
C.B.3 ADT (6.1'-14') & 28.6' of 12" Sewer C76-II (6.1'-14') W.O. 28
Inlet LM (0'-6') & 6.3' of 12" Sewer C76-II (0'-6') W.O. 28
Inlet LM (0'-6') & 36.5' of 12" Sewer C76-II (0'-6') W.O. 28
Water Line, See Sh.# 27
For Detailed Grades See Sh.# 38
58' of Bridge Header, Det. 21
Bridge 5'-6"
Bridge 5'-3"
422

PLAN
Scale 1" = 40'

Concrete Pavement - 9" Uniform
Concrete Curb Detail 2, 9'-2" & 7'-1"
+10.71
Conc. Pav't - 9" Uniform (Spec. High Early Strength)
+28.81
Conc. Pav't - 9" Uniform
+39.81
Conc. Pav't - 9" Uniform (Spec. High Early Strength)
+58.17
Conc. Pav't - 9" Uniform
+70
+35
415
416
417
418
419
420
421
422

PROFILES
Scale: Hor. 1" = 40'
Vert. 1" = 4'

190
125
120
Approx. Ground Profile @ P.O.W.
Prop. Top of North Curb
Prop. Top at South Curb
+0.40 %
-0.40 %
+0.40 %
30' V.C.
Begin Pav't. Const. @ Station 415+35
Inlet 121.2
Outlet 121.0
Outlet 122.0 To S.M.H. Inlet 121.8
Outlet 121.4
Inlet 121.6
Inlet 120.8
Outlet 102.3 To Inlet 120.1 @ San. Sewer
To S.M.H. ⑥ 4'8 + 64 ±
Outlet 118.5
Outlet 118.3
Inlet 118.7
Outlet 118.1
Inlet 118.3
To S.M.H. 4'8 + 64 ±
Outlet 118.9
Inlet 119.2
Outlet 119.1
Inlet 119.4
Outlet 119.5
For Detailed Grades See Sh.# 38
Outlet 122.0
Inlet 121.8
Outlet 122.6
Inlet 117.9
Outlet 103.3 To Inlet @ San. Sewer 103.1
Inlet LT
Outlet 118.6
Inlet 120.6
C.B.3 MDT
Inlet LT

ALL WORK THIS SHEET
CONTROL SECTION 82195D - C12

EARTH EXCAVATION	564 C.Y.
LOSSES	
Embankment + 25%	
This Sheet	375
WASTE	189 C.Y.

PLAN AND PROFILES FOR NORTH SERVICE DRIVE STA. 415+35 TO STA. 422+00

SURVEYED	BY	DATE
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS BUREAU OF HIGHWAYS CITY ENGINEER'S WORK ON EXPRESSWAYS AND EXPRESSWAYS

J. WUCKEY 12-64
M. PELTO 12-64
K. McLEAN 12-64
Asst. Engr. 12-64

FILE NO. USE NO. SEQ SYEMBOL	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-75-1(68)5A	26

C.B.M.#9 Elev. 126.07 Arrow on Hydrant N.E. corner Columbia Ave. and Second Ave.

C.B.M.#11 Elev. 125.50 Arrow on Hydrant N.W. corner Columbia Ave. and Cass Ave.

C.B.M.#12 Elev. 125.44 Arrow on Hydrant N.E. corner Clifford St. and Montcalm St.

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures. Unless otherwise noted, Porous Material Grade A Backfill is required.

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F751(6a)SR			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	28	

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown. Replace with Bituminous Concrete Pavement.

STATION	Remove Ex. Asph. Surface (Sq. Yds.)	Replace with Bit. Conc. Pavt. (Sq. Yds.)
418+87	56 56.1	56 56.1
420+81	59 58.1	59 58.1
TOTALS	NS 114.2	NS 114.2

19.9 Tons Bit. Conc. Wearing Course 3A or 4A
-0- Tons Bit. Conc. Leveling Course
21.5 Gals. Bit. Bond Coat

STATION @ ℄ Opening	Conc. Drive Return, Det. I5 (Lin. Ft.)	Driveway Opening, Det. I9 (Lin. Ft.)
413+70	37 34.3	—
416+75	39 38.4	—
419+60	—	33 31.6
In Cass	—	33 31.2
TOTALS	77 72.7	70 62.7

1507 Lin. Ft. Det. 2 Conc. Curb 1546.8
88.7 90 Lin. Ft. Det. 2-A Conc. Curb
5904 6578 Sq. Ft. 4" Conc. Walk
634.3 733 Sq. Ft. 7" Conc. Walk
24 28 Cu. Yds. (C.I.P.) Cl. AA Shoulders
20.7 N Tons Bit. Agg. Shoulders (Conc. Pavt.)
-0- 28 Gals. Bit. Prime Coat

NOTES:

1. For Alignment See Sh.# 16 & Sh.# 17
2. For Detour Pavement See Sh.# 30 & Sh.# 31
3. [redacted] Existing Sidewalk to remain.
4. To Replace Portion of Exist. Gravel Area used as an Easement for Cass Ave. Detour 5 Cu. Yds. (C.I.P.-4" Thick) of Class AA Approach has been Estimated.

ALL WORK THIS SHEET CONTROL SECTION 82195D-C12

EARTH EXCAVATION ..... 964 C.Y.
LOSSES
Embankment +25% 133
This Sheet 133
WASTE ..... 831 C.Y.

PLAN
Scale: 1"=40'

PROFILES
Hor. 1"=40'
Vert. 1"=4'

PLAN AND PROFILES FOR SOUTH SERVICE DRIVE STA. 413 + 46 TO STA. 422 + 00

FILE NO. PAGE NO. SYENGEL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	F-75-1(88)154	28

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN CHECKED		
PLANS CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIM. R.O.W. GRADE		
FINAL R.O.W. GRADE		
FEDERAL INSPECTION		

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS

J.Y. WICKEY 12-64 M. PATTO 12-64 — DESIGNED BY
N. NELSON 12-64 — CHECKED BY
RECOMMENDED FOR APPROVAL — DIRECTOR OF PUBLIC WORKS

C.B.M.#12 Elev. 125.44 Arrow on Hydrant N.E. corner of Clifford St. & Montcalm St.

C.B.M.#13 Elev. 126.31 Arrow on Hydrant N.E. corner of Park Ave & Montcalm St.

C.B.M.#15 Elev. 127.27 Arrow on Hydrant S.E. corner of Woodward Ave. & Montcalm St.

Excavation and Type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures Unless otherwise noted, Porous Material Grade A Backfill is required.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	FTS-(66)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	County	29	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

Remove Asphalt Surface shown cross-hatched to provide for a smooth connection and to adjust crown Replace with Bituminous Concrete Pavement.

STATION	Remove Ex. Asph. Surface (Sq. Yds.)	Replace with Bit. Conc. Pavt. (Sq. Yds.)
425+00	40 41.0	40 41.0
430+65	100 97.0	188 97.0
431+60	22 23.9	22 23.9
TOTALS	162 161.9	162 161.9

16.9 Tons Bit. Conc. Wearing Course 3 1A
-0- Tons Bit. Conc. Leveling Course
32.6 Gals. Bit Bond Coat

STATION @ ℄ Opening	Conc. Drive Return, Det. 17 (Lin. Ft.)	Driveway Opening, Det. 19 (Lin. Ft.)
422+65	—	16 23.0
426+15	—	20 28.8
426+74	—	20 28.6
428+60	23	—
TOTALS	23	16 80.4

PLAN
Scale: 1"=40'

1846 Lin. Ft. Det. 2 Conc. Curb 1825
54 Lin. Ft. Det. 2A Conc. Curb 54.7
8655 Sq. Ft. 4" Conc. Walk 812.0.9
524 Sq. Ft. 7" Conc. Walk 668.1
30 32 Cu. Yds. (C.I.P.) Cl. AA Shoulders
29.4 84 Tons Bit. Agg. Shoulders (Conc. Pavt.)
-0-180 Gals. Bit. Prime Coat
6.9 Tons Bit. Conc. Wearing Course 2 5A

NOTES:
1. For Alignment See Sh.#12 & Sh.#18
2. For Detour Pavement See Sh.#32
3. Existing Sidewalk to remain.
4. Temp. 8" Concrete Pavement.
5. Barricades and Steel Beam Guard Rail Billed on Sh.#9.

ALL WORK THIS SHEET CONTROL SECTION 82195D-C 12

EARTH EXCAVATION- - - - 765 C.Y.
LOSSES
Embankment+25%
This Sheet- - - - - - 318 C.Y.
WASTE- - - - - - - - - - 448 C.Y.

PLAN AND PROFILES FOR SOUTH SERVICE DRIVE
STA. 422+00 TO STA. 431+45

PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

FILE NO. LBS NO. 3350 WAYNE	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-75-1(22)54	29

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
FINAL GRADE		
FEDERAL INSPECTION		

J.V. MACKEY	M. POLITO	12-68
H. MCLEAN	H. McLean	12-68
		12-68
		12-68

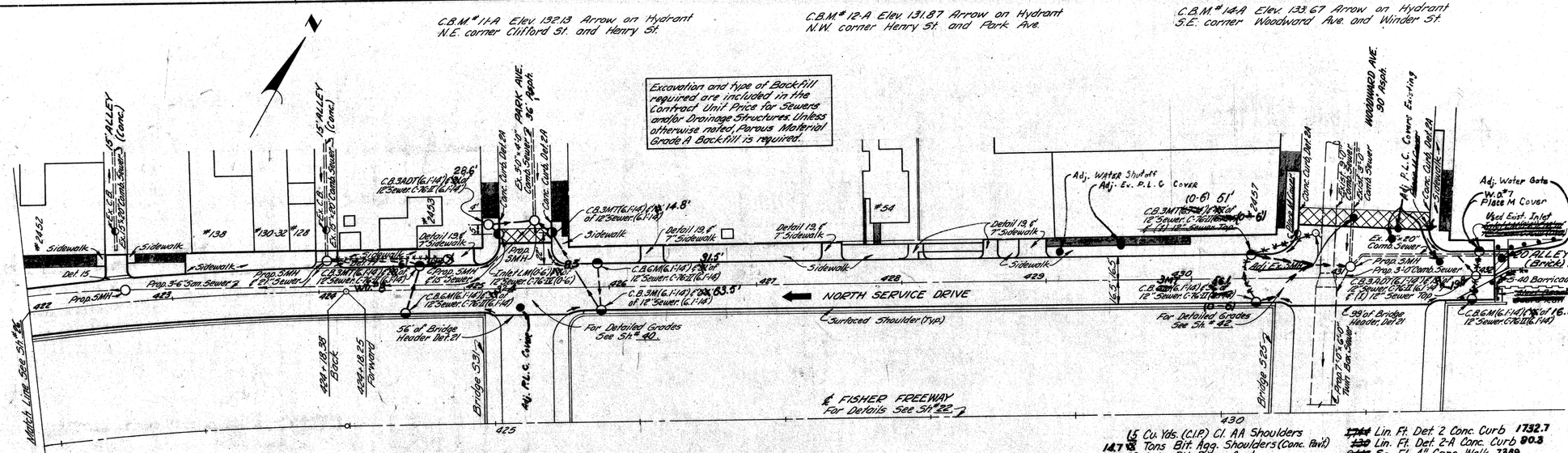
SQUAD LEADER
DRAWN BY
TRACED BY
CHECKED BY
CORRECT
REVISED
FOR SUPERV.

C.B.M.# 11-A Elev. 132.13 Arrow on Hydrant N.E. corner Clifford St. and Henry St.

C.B.M.# 12-A Elev. 131.87 Arrow on Hydrant N.W. corner Henry St. and Park Ave.

C.B.M.# 14-A Elev. 133.67 Arrow on Hydrant S.E. corner Woodward Ave. and Winder St.

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and/or Drainage Structures Unless otherwise noted, Porous Material Grade A Backfill is required.


15' ALLEY (Conc.)
Ex. C.B. Ex. 30"x36" Comb. Sewer
Ex. 30"x36" Comb. Sewer
Ex. C.B.
15' ALLEY (Conc.)
PARK AVE. 36' Pavt.
Conc. Curb Det. 2A
Ex. 30"x 42" Comb. Sewer
Conc. Curb Det. 2A
#2452
#138
#130-32
#128
#124
#54
Sidewalk
Det. 15
Prop. 5'MH
Prop. 3'-6"x5'-3" Comb. Sewer
Prop. 5'MH
Ex. 21" Sewer
C.B.3'MT(G.I-14) 12" Sewer C-76-IE (G.I-14)
C.B.4'DT(G.I-14) 12" Sewer C-76-IE (G.I-14)
Detail 13, 6" 7' Sidewalk
Detail 19, 6" 7' Sidewalk
Prop. 5'MH
Inlet I.M.(G.I-14) 12" Sewer C-76-IE (G.I-14)
Prop. 5'MH
Ex. 3'6" Comb. Sewer
C.B.3'MT(G.I-14) 12" Sewer C-76-IE (G.I-14)
C.B.3'MT(G.I-14) 12" Sewer C-76-IE (G.I-14)
C.B.6'M(G.I-14) 12" Sewer C-76-IE (G.I-14)
C.B.3'M(G.I-14) 12" Sewer C-76-IE (G.I-14)
56' of Bridge Header Det. 21
Adj. Pt. of Curve
Bridge 53'
Match Line See Sh.# 36
421+18.38 Back
421+18.25 Forward
NORTH SERVICE DRIVE
Surfaced Shoulder (Typ.)
For Detailed Grades See Sh.# 40
For Detailed Grades See Sh.# 22
℄ FISHER FREEWAY For Details See Sh.# 22
425
426
427
428
429
430
Bridge 52'5"
Adj. Water Shutoff
Adj. Ev. P.L.C. Cover
C.B.3'MT(G.I-14) 12" Sewer C-76-IE (G.I-14)
Conc. Curb Det. 2A
Adj. Ex. MH
Prop. 3'-0" Comb. Sewer
Ex. 3'-6" Comb. Sewer
Ex. 3'-0" Comb. Sewer
WOODWARD AVE. 90' Asph.
Adj. P.L.C. Cement Existing Sidewalk
Conc. Curb Det. 2A
Adj. Water Gate W.O.#1 Place M Cover
Used Exist. Inlet
20' ALLEY (Brick)
Prop. 5'MH
Prop. 3'-0" Comb. Sewer
C.B.3'M.D.T(G.I-14) 12" Sewer C-76-IE (G.I-14) & 12" I.D. 12" Sewer Tap
C.B.3'M(G.I-14) 12" Sewer C-76-IE (G.I-14)
99' of Bridge Header, Det. 21
Prop. 7'-0"x 6'-0" Twin Box Sewer
Ex. 5'-0" Comb. Sewer
Adj. Ex. MH
Type 3 Barricade
Ex. Sidewalk
Ex. Curb
Ex. Pavt.
Ex. Sidewalk
Ex. Curb
Ex. Pavt.
Ex. Sidewalk
Ex. Curb
Ex. Pavt.

Remove Asphalt Surface shown Cross-Hatched to provide for a smooth connection and to adjust Crown. Replace with Bituminous Concrete Pavement.

Location	Remove Exist. Asph. Surface Sq. Yds.	Replace with Bit. Conc. Pav't. Sq. Yds.
Cass at Vernor	46 0	46 0
S. Edge Vernor	42 0	43 0
N. Edge Vernor	37 0	37 0
Cass at Duffield	78 0	78 0
Total	193 0	193 0

6.5 Tons Bit. Conc. Wearing Course 3IAA
-0- Tons Bit. Conc. Leveling Course
10 Gal. Bit. Bond Coat
9.8 Tons Bit. Conc. Wearing Course 2SA

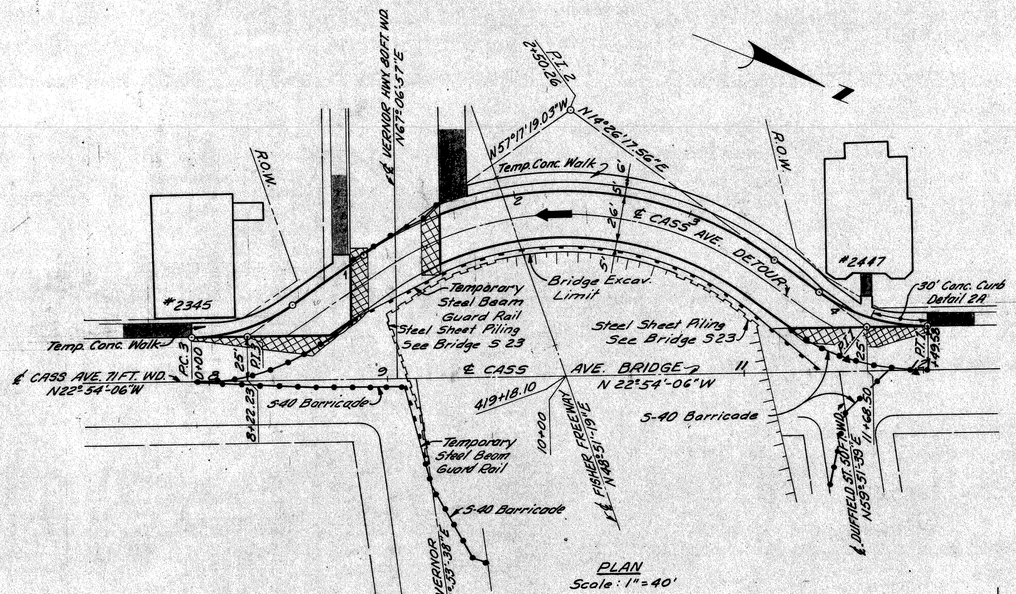
C.B.M. #11 Elev. 125.50 Arrow on Hydrant N.W. Corner Columbia Ave. and Cass Ave.
C.B.M. #10-A Elev. 131.83 Arrow on Hydrant N.W. Corner Cass Ave and Henry St.

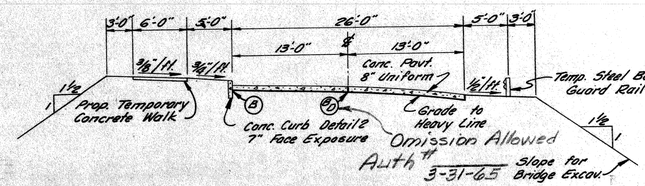
See Sh. #3 for Billing of
1. All Barricades
2. Temp. Steel Beam Guard Rails
3. Temp. Concrete Sidewalk
4. Bit. Materials Required to Maintain Traffic During Construction of Approach Pavement.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	S 275 1(68) 54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	30	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

AUTH # 3-31-65





TYPICAL SECTION FOR DETOUR ROADWAY
Scale: 1" = 8'

CURVE DATA CASS AVE. DETOUR

Curve 1	Curve 2	Curve 3
Δ = 37°-20'-23.56"	Δ = 71°-43'-36.59"	Δ = 34°-23'-13.03"
D = 57°-17'-44.81"	D = 29°-13'-57.15"	D = 57°-17'-44.81"
R = 100'	R = 196'	R = 100'
T = 33.790'	T = 141.690'	T = 30.943'
L = 65.170'	L = 245.366'	L = 60.017'
E = 6.554'	E = 45.851'	E = 4.678'
P.C. = 3+84.408	P.C. = 1+08.568	P.C. = 0+00
P.I. = 4+19.198	P.I. = 2+52.258	P.I. = 0+30.943
P.T. = 4+49.578	P.T. = 3+53.934	P.T. = 0+60.017

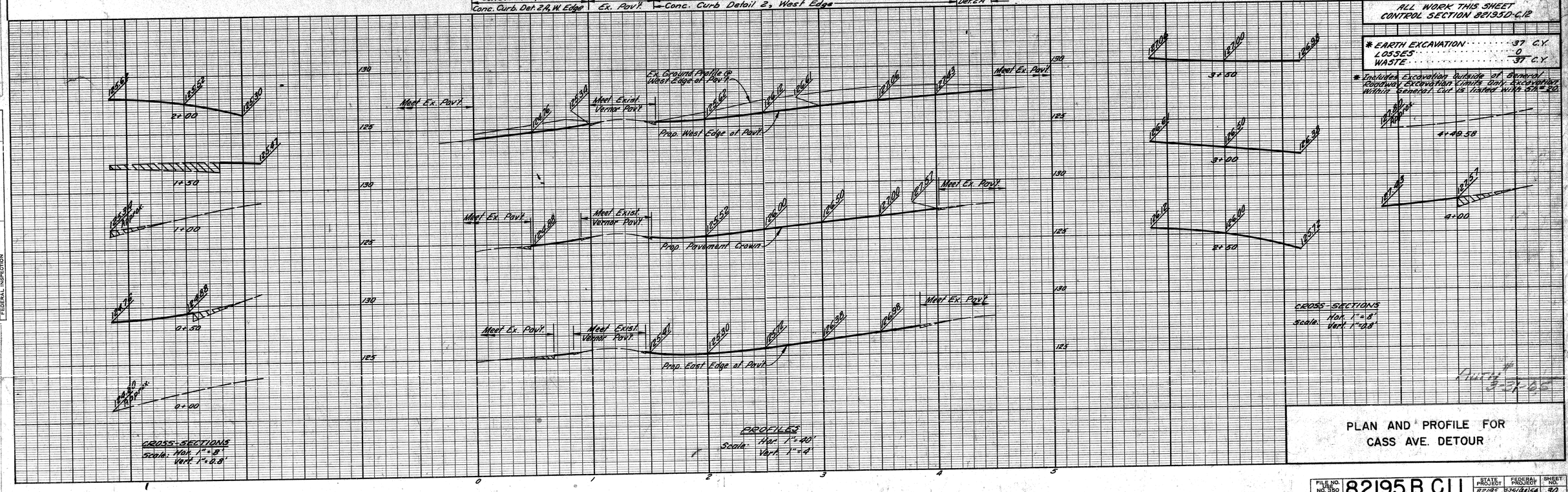
232.5 Sq. Yds Lin. Ft. Det 2 Conc. Curb
168.8 Sq. Yds Lin. Ft. Det 2-A Conc. Curb
848.7 Sq. Yds 8" Unif. Pavement

NOTES:
1. For Cass Ave. Bridge S23 See Sh. #202
2. For Pavement Joint Legend See Sh. #8
3. ▬ Existing Sidewalk to remain.
4. ▲ Two Level Flasher

ALL WORK THIS SHEET CONTROL SECTION 82195D-C12

* EARTH EXCAVATION	37 C.Y.
LOSSES	0
WASTE	37 C.Y.

* Includes Excavation outside of General Roadway Excavation Limits only. Excavation Without General Cut is listed with Sta. #20.



Auth # 3-31-65

PLAN AND PROFILE FOR CASS AVE. DETOUR

FILE NO. USE NO. 350 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	S 275 1(68) 54	30

PLANS PREPARED BY CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEER'S OFFICE AND BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLANS COMPLETED		
PLANS CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIM. WORK DONE		
GRADE INSPECTION		
FEDERAL INSPECTION		

J.V. HICKEY M. POLITO — 12-62 2-62
R. PLATER — 12-61
Edward E. Jaycox — 12-61
SR. ASSOC. ENGR. HIGHWAYS — 12-61
SR. ASSOC. ENGR. TRAFFIC & SIGNS
SR. ASSOC. ENGR. PLANNING
SR. ASSOC. ENGR. SURVEYS & PLATS
SQUAD LEADER
DRAWN BY
TRACED BY
CHECKED BY
CONFIRMED BY
RECOMMENDED FOR APPROVAL

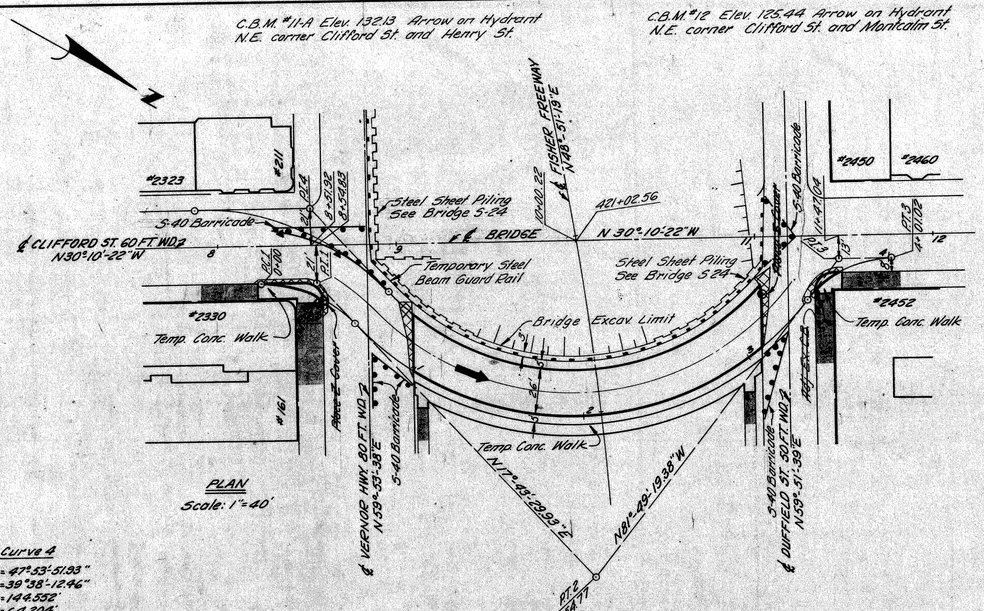
Remove Asphalt Surface shown Cross-Hatched to provide for a smooth connection and to adjust Crown. Replace with Bituminous Concrete Pavement.

LOCATION	Remove Exist. Asph. Surface (Sq. Yds.)	Replace with Bit. Conc. Pavt (Sq. Yds.)
S.E. Corner Vernor & Clifford	~~X~~ 0	~~X~~ 0
North Edge Vernor Hwy.	~~X~~ 0	~~X~~ 0
South Edge Duffield St.	~~X~~ 0	~~X~~ 0
N.E. Corner Duffield & Clifford	~~X~~ 0	~~X~~ 0
TOTALS	~~X~~ 0	~~X~~ 0

2 ~~X~~ Tons Bit. Concrete Wearing Course 3IAA
0 ~~X~~ Tons Bit. Concrete Leveling Course
2 ~~X~~ Gals. Bit. Bond Coat

C.B.M. #11-A Elev. 132.13 Arrow on Hydrant N.E. corner Clifford St. and Henry St.

C.B.M. #12 Elev. 125.44 Arrow on Hydrant N.E. corner Clifford St. and Monicalm St.



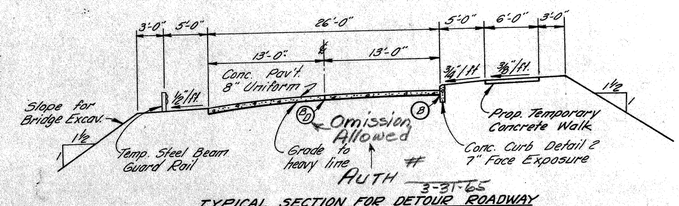
PLAN
Scale: 1"=40'

See Sh.# 3 for Billing of
1. All Barricades
2. Temp. Steel Beam Guard Rail
3. Temp. Concrete Sidewalk
4. Bit. Materials Required to Maintain Traffic During Construction of Approach Pavement.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)57			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	31	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

AUTH # 3-31-65



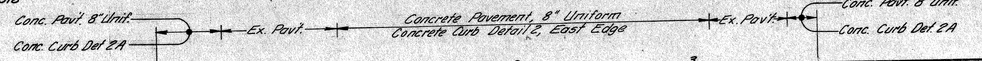
TYPICAL SECTION FOR DETOUR ROADWAY
Scale: 1"=8'

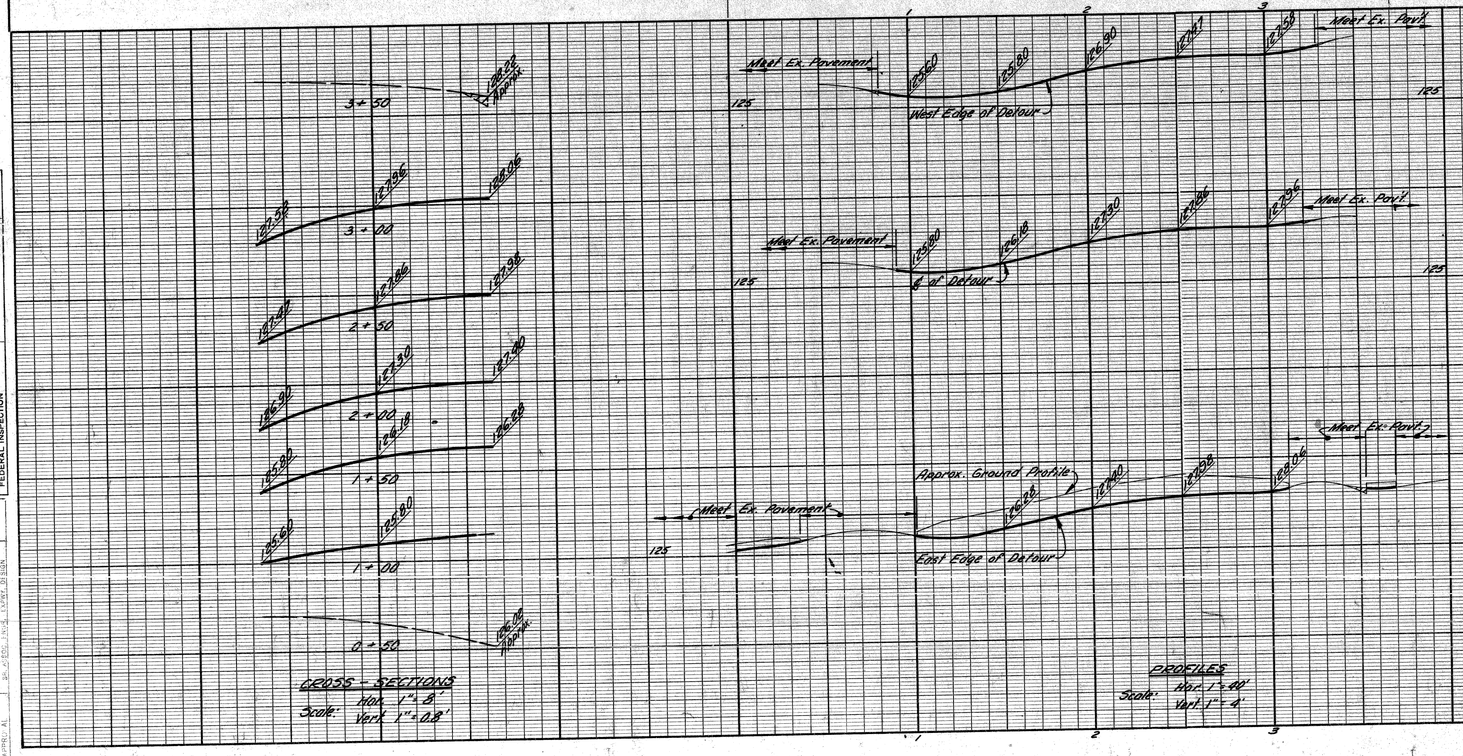
212 ~~239~~ Lin. Ft. Det. 2 Conc. Curb
66 ~~86~~ Lin. Ft. Det 2A Conc. Curb
629.8 Sq. Yds 8" Unif. Pavement

NOTES:
1. For Clifford St. Bridge S-24 See Sh.# 202
2. For Pavement Joint Legend See Sh.# 8
3. ▬ Existing Sidewalk to remain.
4. ▲ Two Level Flasher

CURVE DATA CLIFFORD ST. DETOUR

Curve 1	Curve 2	Curve 3	Curve 4
Δ = 47°-53'-51.93"	Δ = 99°-32'-49.31"	Δ = 51°-38'-57.38"	Δ = 47°-53'-51.93"
D = 81°-51'-04.01"	D = 34°-30'-55.91"	D = 35°-29'-34.68"	D = 39°-38'-12.96"
R = 70'	R = 166	R = 60'	R = 144.552'
T = 31.091'	T = 196.250'	T = 29.037'	T = 64.204'
L = 58.518'	L = 288.412'	L = 54.087'	L = 120.842'
E = 6.594'	E = 91.041'	E = 6.657'	E = 13.617'
P.C. = 0+00	P.C. = 0+58.518	P.C. = 3+46.930	P.C. = ——
P.I. = 0+31.091	P.I. = 2+54.768	P.I. = 3+75.967	P.I. = ——
P.T. = 0+58.518	P.T. = 3+46.930	P.T. = 4+01.017	P.T. = 0+58.518





CROSS-SECTIONS
Scale: Hor. 1"=8'
Vert. 1"=0.8'

PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

ALL WORK THIS SHEET CONTROL SECTION 82195-D-C12

* EARTH EXCAVATION ..... 2 C.Y.
LOSSES 0
WASTE ..... 2 C.Y.

* Includes Excavation Outside of General Roadway Excavation Limits Only. Excavation Within General Cut is Included with Sta. Exc.

AUTH # 3-31-65

PLAN AND PROFILE FOR CLIFFORD ST. DETOUR

FILE NO. LINE NO. 350 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	F-75-1(88)57A	31

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY PLAN CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
PLAN PLOTTED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
ESTIMATED		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
FINAL INSPECTION		
FEDERAL INSPECTION		

SQUAD LEADER J.V. WICKEY 12-64
DRAWN BY M. POLITO 12-64
CHECKED R. PLATER 12-64
APPROVED [signature] 12-64
DIRECTOR
RECOMMENDED FOR APPROVAL

SEE CONTRACT PROPOSAL FOR LIST OF STANDARD PLANS, SPECIFICATIONS AND SPECIAL PROVISIONS WHICH APPLY TO THIS PROJECT.

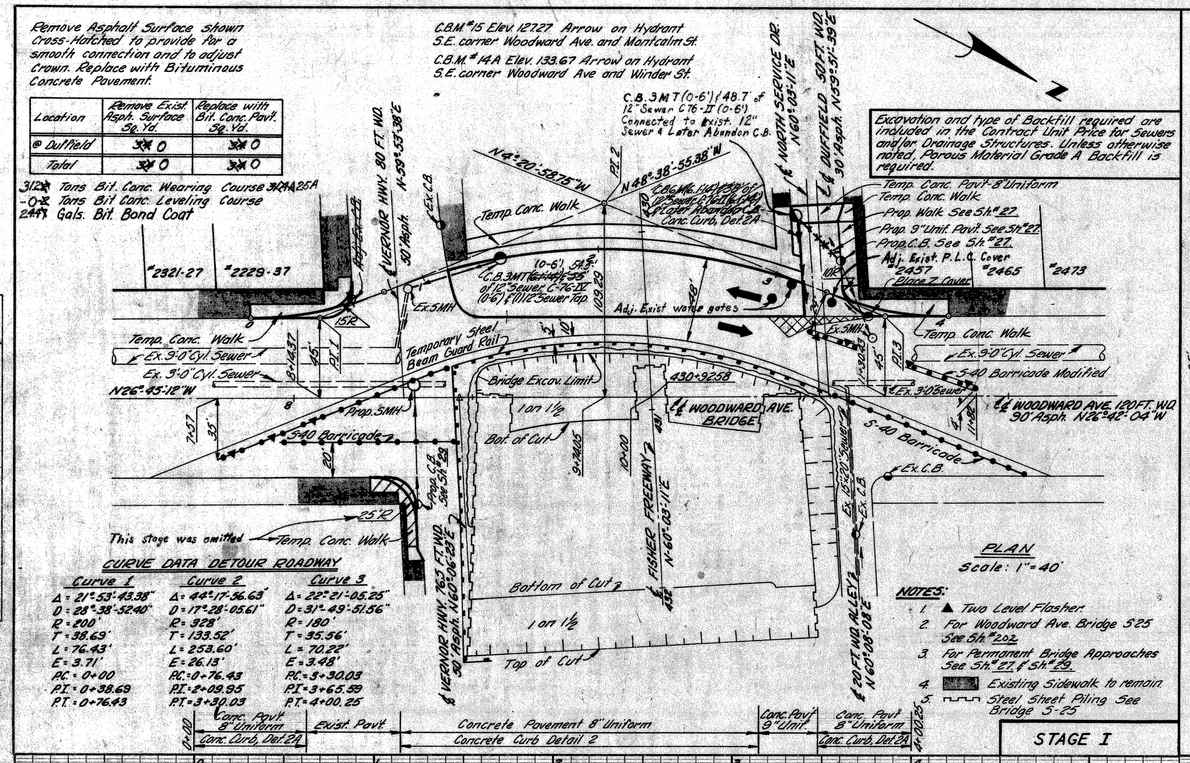
Remove Asphalt Surface shown Cross-Hatched to provide Par or smooth connection and to adjust Crown. Replace with Bituminous Concrete Pavement.

Location	Remove Exist. Asph. Surface Sq. Yd.	Replace with Bit. Conc. Pavt. Sq. Yd.
@ Duffield	3X0	3X0
Total	3X0	3X0

312X Tons Bit. Conc. Wearing Course 3A or 2A
-0X Tons Bit. Conc. Leveling Course
244X Gals. Bit. Bond Coat

C.B.M.#15 Elev. 127.27 Arrow on Hydrant S.E. corner Woodward Ave. and Montcalm St.
C.B.M.#14A Elev. 133.67 Arrow on Hydrant S.E. corner Woodward Ave and Winder St.

Excavation and type of Backfill required are included in the Contract Unit Price for Sewers and for Drainage Structures. Unless otherwise noted, Porous Material Grade A Backfill is required.


Vernor Hwy. 80 Ft. Wid. 30' Asph. N-39°-53'-38"E
Ex. C.B.
Temp. Conc. Walk
Ex. 3'-0" Cyl. Sewer
Ex. 5 MH
Temporary Steel Beam Guard Rail
Bridge Excav. Limit
1 on 1½
Bot. of Cut
Top of Cut
Fisher Freeway
N-60°-03'-11"E
Woodward Ave. Bridge
430+92.38
Woodward Ave. 120 Ft. Wid. 90' Asph. N26°-42'-04"W
5-40 Barricade
5-40 Barricade Modified
Ex. C.B.
Ex. 3'-0" Sewer
Ex. 3'-0" Cyl. Sewer
Prop. 5 MH
Prop. C.B. See Sht. 27
Temp. Conc. Pavt. 8" Uniform
Temp. Conc. Walk
Prop. Walk See Sht. 27
Prop. 9" Unif. Pavt. See Sht. 27
Adj. Exist. P.L.C. Cover #2457 #2465
Place 7 Cover
Adj. Exist water gates
C.B.3 MT (0-6') / 48.7' of 12" Sewer C-76-II (0-6') Connected to Exist. 12" Sewer & Later Abandon C.B.
C.B.6 MT (0-6') / 48.7' of 12" Sewer C-76-II (0-6') Connected to Exist. 12" Sewer & Later Abandon C.B.
Conc. Curb, Det. 2A
N4°-20'-58.75"W
N48°-38'-55.38"W
#2321-27
#2229-37
#2457
#2465
#2473
This Stage was omitted
Temp. Conc. Walk
Prop. C.B. See Sht. 27
Bottom of Cut
Top of Cut
1 on 1½
Vernor Hwy. 765 Ft. Wid. 30' Asph. N-60°-06'-25"E
20 Ft. No Alley N-60°-08'-00"E
Duffield 80 Ft. Wid. 30' Asph. N-39°-53'-38"E
North Service Dr. N-60°-03'-11"E
Ex. C.B.
Ex. 3'-0" Sewer
Ex. 3'-0" Cyl. Sewer
Ex. 3'-0" Sewer
Prop. C.B. See Sht. 27
Ex. 5 MH
Ex. 3'-0" Cyl. Sewer
Ex. 3'-0" Sewer
Ex. C.B.
Ex. C.B.
Ex. 3'-0" Sewer
Ex. 3'-0" Cyl.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F75-(82)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	33	

LEGEND

- Bit. Conc. Wearing Course-25A Est. 170 # per sq. yd. Bit. Bond Coat Est. 0.15 gal. per sq. yd.
- Bit. Conc. Wearing Course-31A Est. 80 # per sq. yd. Bit. Conc. Leveling Course Est. 170 # per sq. yd. Bit. Bond Coat Est. 0.20 gal. per sq. yd.
- Conc. Pavement Patching 9" Uniform (Non-Reinforced)
- Adjust Catch Basin
- Adjust Manhole

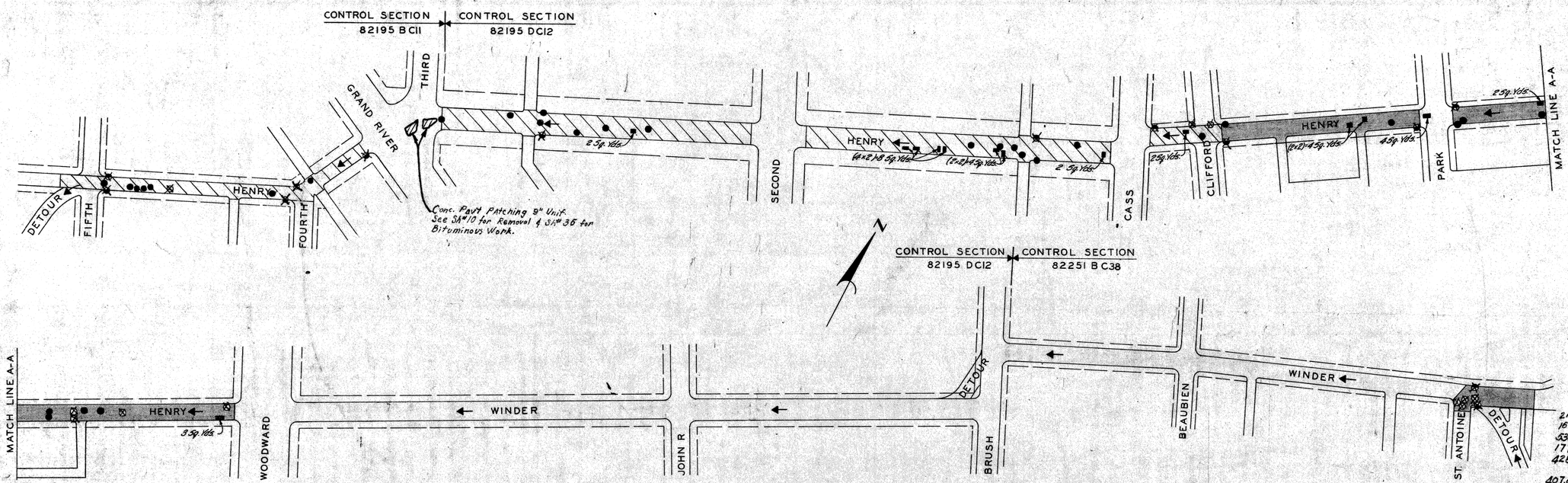
QUANTITIES

Control Section	Adjusting Catch Basins	Adjusting Manholes
82195 B	~~10~~ Ea. 5	~~14~~ Ea.
82195 D	~~23~~ Ea. 12	~~32~~ Ea. 80
82251 B	~~13~~ Ea. 0	~~10~~ Ea. 4

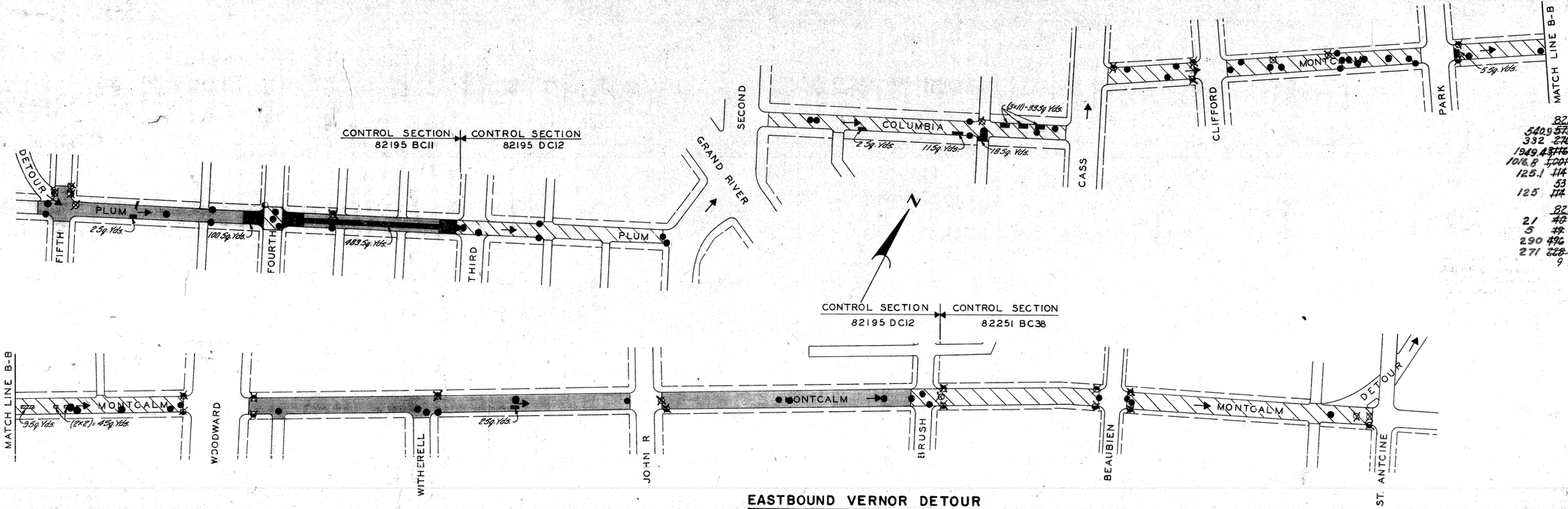
82195 B

213 ~~259~~ Tons Bit. Level Cse.
160 ~~89~~ Tons Bit. Conc. Wearing Cse. 31-AA
539 ~~727~~ Gals. Bit. Bond Coat
177 ~~154~~ Tons. Bit. Conc. Wearing Cse 25A
428 ~~525~~ Sq Yd Conc. Pavt. Patching - 9" Unit.
~~14~~ Sta. Prepair Exist. Pavt.
407.8 ~~585~~ Sq. Yds. Rem. Old Pavt.

WESTBOUND VERNOR DETOUR



EASTBOUND VERNOR DETOUR



82195 D

~~540~~ ~~573~~ Tons Bit. Leveling Cse.
332 ~~270~~ Tons Bit. Conc. Wearing Cse. 31-AA
1949.4 ~~1776~~ Gals Bit. Bond Coat
~~1016.8~~ ~~1001~~ Tons Bit. Conc. Wearing Cse 25-A
125.1 ~~114~~ Sq. Yds. Conc. Pavt. Patching - 9" Unif.
53 Sta. Prepair Exist. Pavt.
125 ~~114~~ Sq. Yds. Rem. Old Pavt.

82251 B

2.1 ~~19~~ Tons Bit. Level. Cse.
5 ~~15~~ Tons Bit. Conc. Wearing Cse. 31-AA
290 ~~496~~ Gals. Bit. Bond Coat
271 ~~228~~ Tons Bit. Conc. Wearing Cse. 25-A
9 Sta. Prepairing Exist. Pavt.

SCALE: 1"= 100'

VERNOR DETOUR RESURFACING PLAN

FILE NO. PER NO. 350 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B CII	82195	F-75-(082)54	33

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

SUBMITTED BY	DAVID F. WICKERT	12-64
DRAWN BY	E. CALLAHAN	12-64
TRACED BY		
CHECKED BY	C. HOPKINS	12-64
CORRECT		
RECOMMENDED FOR APPROVAL		

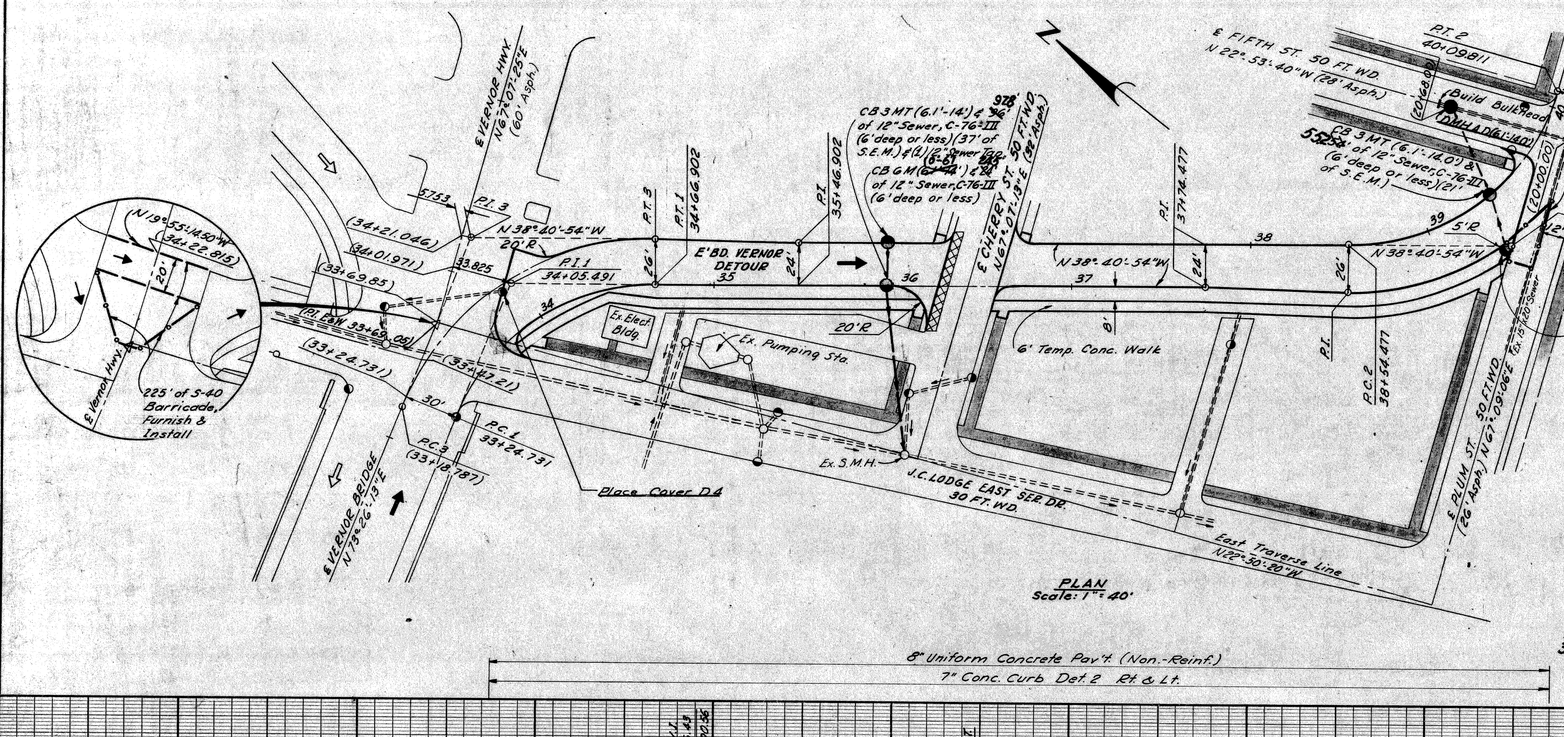
C.B.M. #4 Elev. 123.63 Arrow on Hydrant N.E. corner Plum St. and Lodge East Serv. Dr.

C.B.M. #5 Elev. 121.90 Arrow on Hydrant N.E. corner Plum St. and Fifth Ave.

P.B.M. #29-253 Elev. 120.782 City of Detroit Monument 22' N & Elizabeth St. and 3' W & Fifth Ave.

B.F.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-4(188)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	34	

B.F.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



CURVE DATA E'BD. VERNOR DETOUR

Curve 1	Curve 2	Curve 3
Δ = 67°-52'-53"	Δ = 74°-10'-00"	Δ = 67°-52'-53"
D = 47°-44'-47.34"	D = 47°-44'-47.34"	D = 37°-35'-31.04"
R = 120.000'	R = 120.000'	R = 152.415'
T = 80.760'	T = 90.700'	T = 102.576'
L = 142.170'	L = 155.334'	L = 180.574'
E = 24.645'	E = 30.421'	E = 31.303'
P.C. = 33+24.731	P.C. = 38+54.477	P.C. = —
P.I. = 34+05.491	P.I. = 39+45.177	P.I. = —
P.T. = 34+66.901	P.T. = 40+09.811	P.T. = —

Station	Remove Ex. Asph. Surf. Sq. Yds.	Bit. Conc. Pav't. Sq. Yds.
36+28	320	320
—	—	—
Totals	320	320

Excavation and type of backfill required are included in the contract unit price for sewers and/or drainage structures. Unless otherwise noted, Porous Material-Grade A Backfill is required. Use Selected Excavated Material if noted S.E.M.

All Quantities This Sheet Control Section 82195 BCII

S-40 Barricade Furnish and Install ___ 312.5 Lin. Ft. for Barricade Lighting See Sh.# ___

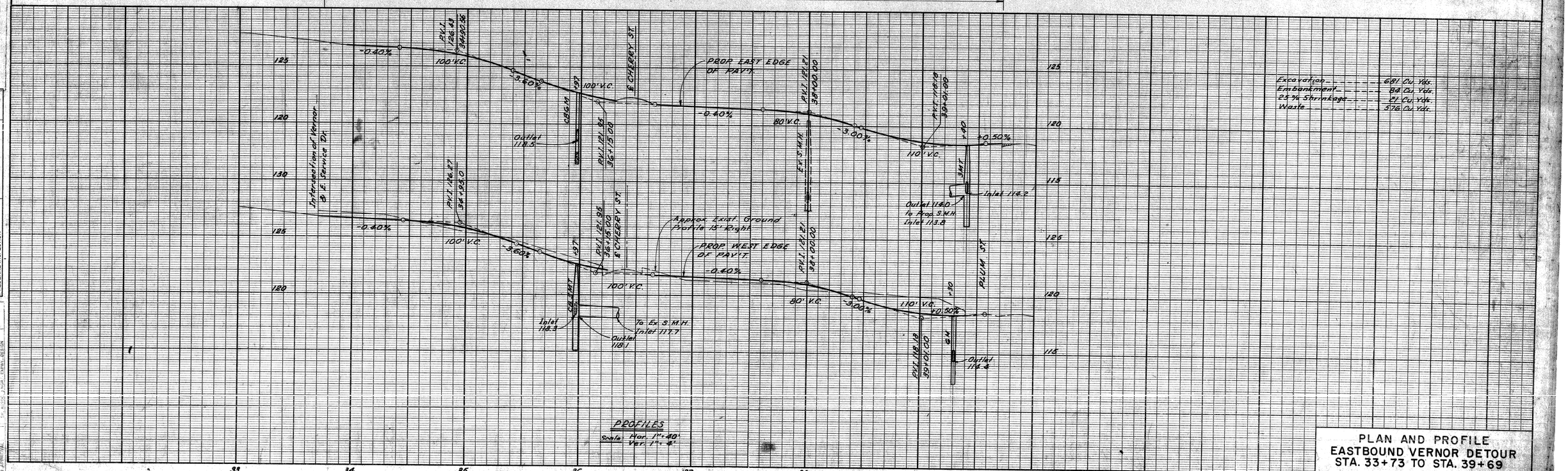
1,127 ~~116~~ Lin. Ft. Det 2 Conc. Curb
3,002 ~~326~~ Sq. Ft. Temp Conc. Walk
1,670 Sq. Yds. Conc. Pavement 8" Unif.

0 ~~38~~ tons Bit. Conc. Wearing Course 3MA
0 ~~58~~ tons Bit. Conc. Leveling Course
0 ~~7~~ Gals. Bit. Bond Coat
Remove asphalt surface shown cross-hatched to provide for a smooth connection. Replace with Bituminous Concrete Pavement.

NOTES:
All street returns 10'R unless otherwise noted.
Stations shown in brackets, thus ( ), refer to the Existing Street Survey Stationing.
Bench Marks are on City of Detroit Datum.
Existing Sidewalks to remain.
Existing Drainage

PLAN
Scale: 1" = 40'

8" Uniform Concrete Pav't. (Non.-Reinf.)
7" Conc. Curb Det. 2 Rt. & Lt.



PROFILES
Scale: Hor. 1" = 40'
Ver. 1" = 4'

Excavation	681 Cu. Yds.
Embankment	84 Cu. Yds.
25% Shrinkage	21 Cu. Yds.
Waste	576 Cu. Yds.

PLAN AND PROFILE
EASTBOUND VERNOR DETOUR
STA. 33+73 TO STA. 39+69

FILE NO. USE SAME NO. STENCIL	82195 B CII	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-75-1(188)54	34

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED	COTTER & TRUAX	7-6-64
TRACED O. W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
FINAL INSPECTION		
FEDERAL INSPECTION		

PLANS PREPARED BY THE CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE BUREAU OF HIGHWAYS AND EXPRESSWAYS

SQUAD LEADER	DESIGNED BY	CHECKED BY	CORRECT	RECOMMENDED FOR APPROVAL
D. WILT - T. V. WICKEY	E. CASTALDO	H. SORGEN (Engr.)		
12-64	12-64	12-64	12-64	12-64

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(80)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	35	

CURVE DATA W'BD. VERNOR DETOUR

Curve 4

Δ = 63°-03'-31"
D = 47°-44'-47.34"
R = 120.000'
T = 73.621'
L = 132.070'
E = 20.784'
P.C. = 33+11.733
P.I. = 33+85.354
P.T. = 34+43.803

Curve 5

Δ = 56°-46'-40"
D = 39°-14'-37.26"
R = 146.000'
T = 78.905'
L = 144.680'
E = 19.958'
P.C. = 36+51.668
P.I. = 37+30.573
P.T. = 37+96.348

Curve 6

Δ = 63°-03'-31"
D = 37°-05'-22.01"
R = 154.480'
T = 94.774'
L = 170.018'
E = 26.755'
P.C. = —
P.I. = —
P.T. = —

Notes:

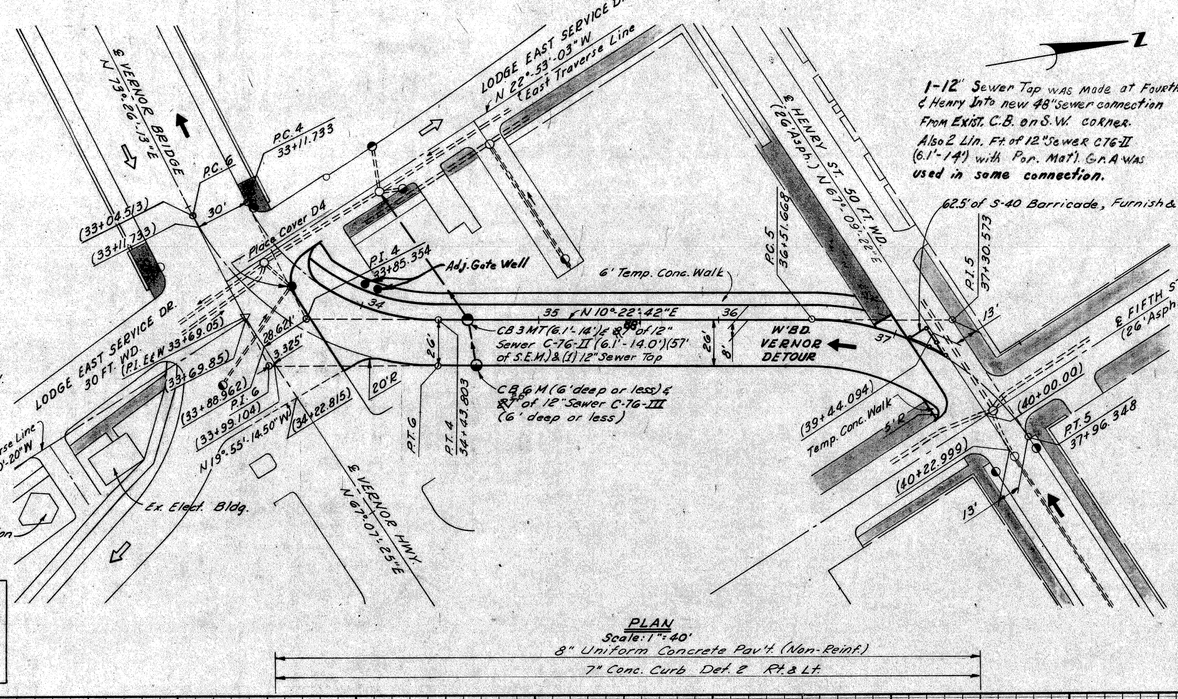
All street returns 15' R unless otherwise noted.
Stations shown in brackets, thus ( ), refer to the Existing Street Survey Stationing.
Bench Marks are on City of Detroit Datum.
Existing Sidewalks to remain.
Existing Drainage.

Excavation and type of backfill required are included in the contract unit price for sewers and/or drainage structures.
Unless otherwise noted, Porous Material-Grade A Backfill is required.
Use Selected Excavated Material if noted, S.E.M.

C.B.M. #5A Elev. 131.41 Arrow on Hydrant. N.E. corner Spruce St. and Lodge East Service Dr.

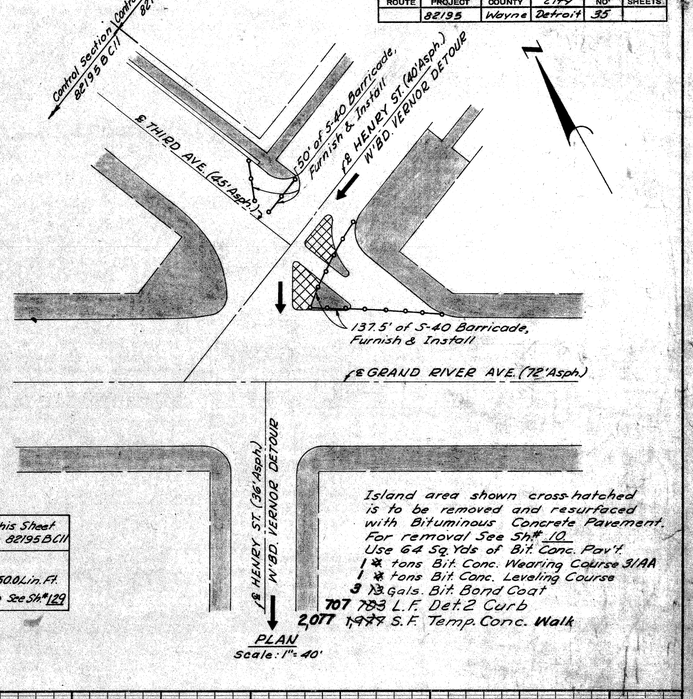
C.B.M. #6A Elev. 130.49 Arrow on Hydrant. N.W. corner Spruce St. and Fifth Ave.

1-12" Sewer Tap was made at Fourth & Henry Into new 48" sewer connection From Exist. C.B. on S.W. corner. Also 2 Lin. Ft. of 12" Sewer C76-II (6.1'-14') with Por. Mat'l. G.A.A was used in same connection.



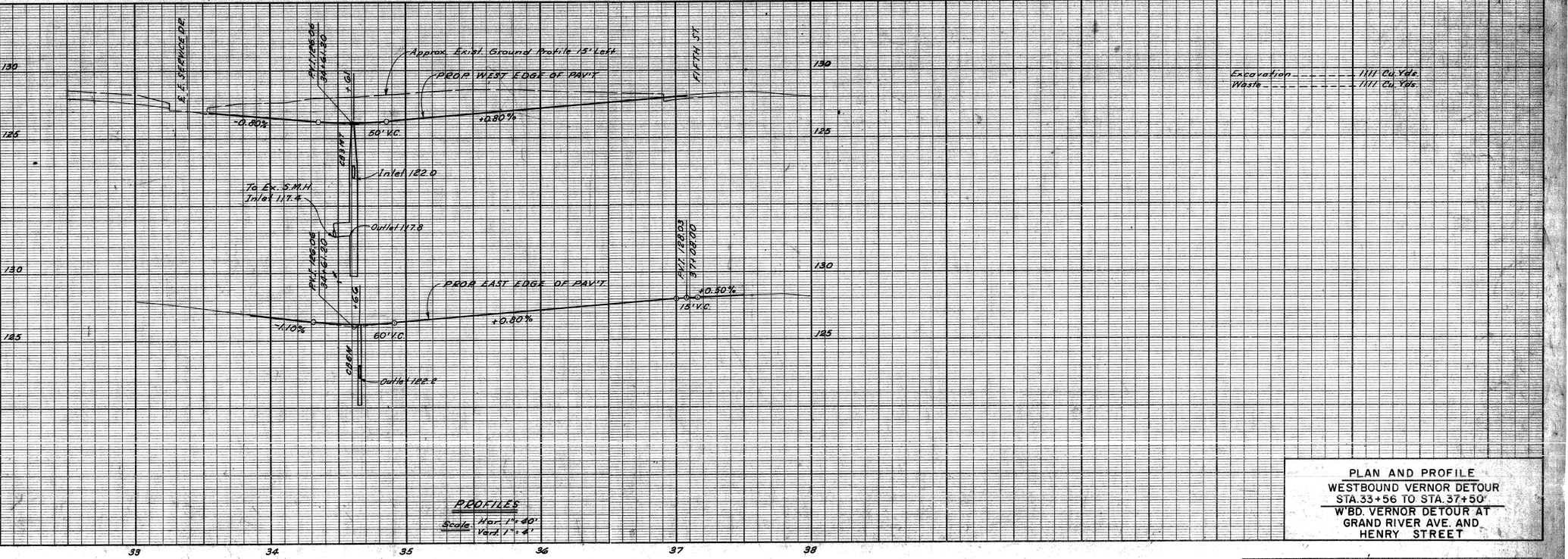
PLAN
Scale: 1"=40'
8" Uniform Concrete Pav't. (Non-Reinf.)
7" Conc. Curb Det. 2 Rt. & Lt.

All Quantities This Sheet Control Section 82195 B C II
S-40 Barricades Furnish & Install 250.0 Lin. Ft.
For Barricade Lighting See Sh# 129



Island area shown cross-hatched is to be removed and resurfaced with Bituminous Concrete Pavement.
For removal See Sh# 10
Use 64 Sq. Yds of Bit. Conc. Pav't.
1 ½ tons Bit. Conc. Wearing Course 3 1AA
1 ½ tons Bit. Conc. Leveling Course
3 ½ Gals. Bit. Bond Coat
707 783 L.F. Det 2 Curb
2,077 1,977 S.F. Temp. Conc. Walk

PLAN
Scale: 1"=40'



PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

Excavation	1111 Cu. Yds.
Waste	1111 Cu. Yds.

PLAN AND PROFILE
WESTBOUND VERNOR DETOUR
STA. 33+56 TO STA. 37+50
W'BD. VERNOR DETOUR AT GRAND RIVER AVE. AND HENRY STREET

FILE NO. USE NO. 330 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C II	82195	I-75-1(80)54	35

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL LOCATION CHECKED		
TRACED		
FINAL R.O.W. CHECK		
PLANS CHECKED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
FIELD VERIFIED		
PROFILE PLOTTED		
PROFILE CHECKED		
PROFILE APPROVED		
GRADE INSPECTION		
FEDERAL INSPECTION		

SQUAD LEADER	D. WITZKE	12-64
DRAWN BY	F. CALTABIANO	12-64
TRACED BY		
CHECKED BY	A. TSEMBERIS	12-64
CORRECT		12-64
RECOMMENDED FOR APPROVAL		

SR. MDSG. ENGR. EXPWY. DESIGN

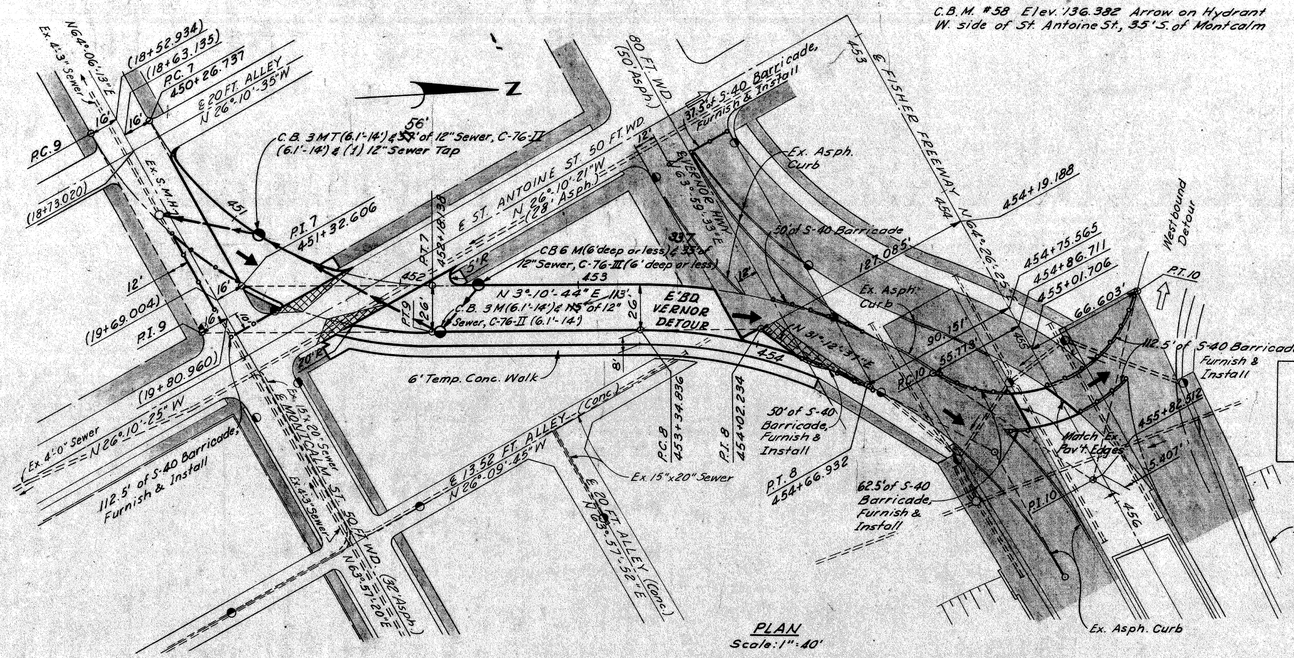
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82251	Wayne	Detroit	36	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

C.B.M. #58 Elev. 136.382 Arrow on Hydrant
W. side of St. Antoine St., 35'± S. of Montcalm

C.B.M. #59 Elev. 138.994 Arrow on Hydrant
N.E. corner of St. Antoine St. and Vernor Hwy.

C.B.M. #60 Elev. 139.892 Arrow on Hydrant
S.E. corner of St. Antoine St. and Vernor Hwy.



PLAN
Scale: 1" = 40'

CURVE DATA FOR E'BD. VERNOR DETOUR

Curve 7	Curve 8	Curve 9	Curve 10
Δ = 60°-55'-29"	Δ = 28°-01'-53"	Δ = 60°-55'-29"	Δ = 110°-33'-39"
D = 31°-49'-51.56"	D = 21°-13'-13.81"	D = 26°-19'-19.46"	D = 76°-23'-39.74"
R = 180.000'	R = 270.002'	R = 217.672'	R = 75.000'
T = 105.869'	T = 67.398'	T = 128.026'	T = 108.235'
L = 191.401'	L = 132.096'	L = 231.459'	L = 144.724'
E = 28.826'	E = 8.285'	E = 34.859'	E = 56.680'
P.C. = 450+26.737	P.C. = 453+34.836	P.C. = -	P.C. = -
P.I. = 451+32.606	P.I. = 454+02.234	P.I. = -	P.I. = -
P.T. = 452+18.138	P.T. = 454+66.932	P.T. = -	P.T. = -

Station	Remove Ex. Asph. Surf. Sq. Yds.	Bit. Conc. Pav't. Sq. Yds.
451+50	230	230
451+75	250	250
454+25	290	290
Totals	880	880

Excavation and type of backfill required are included in the contract unit price for sewers and/or drainage structures. Unless otherwise noted, Porous Material-Grade A Backfill is required. Use Selected Excavated Material if noted S.E.M.

668 L.F. Det. 2 Curb
2051 1882 S.F. Temp. Conc. Walk
903 Sq. Yds. Conc. Pavement 8" Uniform

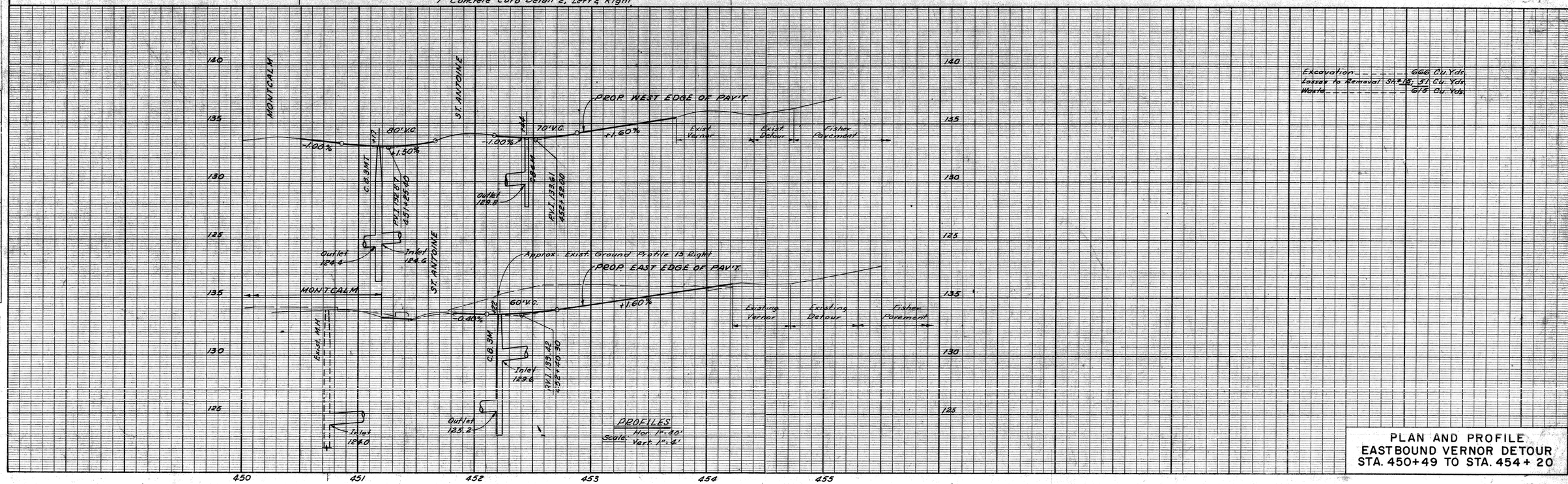
0 Tons Bit. Conc. Wearing Course 3 1AA
0 Tons Bit. Conc. Leveling Course
0 Gal. Bit. Tack Coat.
Remove asphalt surface shown cross-hatched to provide for a smooth connection. Replace with Bituminous Concrete Pavement.

All Quantities This Sheet
Control Section 82251 BC38

S-40 Barricade
Furnish and Install _____ 425 Lin. Ft.
For Barricade Lighting see Sh.# 129

Notes:
All street returns are 15' unless otherwise noted.
All alley returns are 4' unless otherwise noted.
Bench Marks are on City of Detroit Datum.
Stations shown in brackets, thus ( ), refer to the Existing Street Survey Stationing.
Existing Sidewalks to remain, or Existing Detour Pavement to remain.
Existing Drainage

8" Uniform Concrete Pavement (Non-Reinforced)
7" Concrete Curb Detail 2, Left & Right



Excavation _____ 666 Cu. Yds.
Losses to Removal 9A*13, 5T Cu. Yds
Waste _____ 615 Cu. Yds.

PLAN AND PROFILE
EASTBOUND VERNOR DETOUR
STA. 450+49 TO STA. 454+20

FILE NO. US-SBD STENSIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	F-75-1(88)54	36

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL R.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES COMPUTED		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FEDERAL INSPECTION		

SQUAD LEADER D. MUZZY 12-44
DRAWN F. CALTABIANO 12-44
TRACED 12-44
CHECKED M. F. O'BRIEN 12-44
CORRECT [signature]
VOUCHERED
CK. ENG.

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEER'S OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1 (08) 54			
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82251	Wayne	Detroit	37	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

C.B.M. #44 Elev. 140.751 Arrow on Hydrant N. W. corner St. Antoine St. and Winder St.

Control Section 82251BC38

Control Section 82195BC12

Control Section 82251BC38

Curve Data
Δ = 51°-23'-56"
D = 114°-35'-29.61"
R = 50.000'
T = 24.063'
L = 44.854'
E = 5.489'
PC. = 2+82.224
P.I. = 3+06.287
P.T. = 3+27.078

Control Section 82195DC12

E. BRUSH ST. 60 Ft. WD. (40' Asph.)

E. WINDER ST. 50 Ft. WD. (32' Asph.)

C.B. 3MT(6.1'-14.0')& 15" of 12" Sewer C-76-III (6' deep or less)

C.B. 6MT(6' deep or less) & 48" of 12" Sewer C-76-III (6' deep or less)

100.993'

Ex. 13'-6" Sewer

Ex. S.M.H.

Prop. S.M.H.

207.9 156 sq. ft. of 7" Conc. Walk

6' Temp. Conc. Walk

695.8 532 S.F. Temp. Conc. Walk
163.5 139 L.F. Conc. Curb Det. 2
258.8 Sq. Yd. 8" Unif. Pavement

75' of S-40 Barricade, Furnish & Install

PLAN
Scale: 1" = 40'

8" Unif. Conc. Pav't. (Non-Reinf.)
7" Conc. Curb Detail 2, Lt. & Rt.

Excavation and type of backfill required are included in the contract unit price for sewers and/or drainage structures. Unless otherwise noted, Porous Material - Grade A Backfill is required. Use Selected Excavated Material if noted S.E.M.

C.B. 3MT(6.1'-14.0')(Top Elev. 137.40)& 70' of 12" Sewer, C-76-II (6.1'-14.0')

100' of S-40 Barricade, Furn. & Install

6' Temp. Conc. Walk

This portion of Walk to be constructed after property is acquired

C.B. 3MT(6.1'-14.0')(Adjust to 137.40) & 113.5' of 12" Sewer (6' deep or less) & 33' of S.E.M.)&(12") 12" Sewer Top 93.5'

W'BD. VERNOR DETOUR N 54°-51'-53" W

C.B. 6MT(6.1'-14.0')& 78' of 12" Sewer C-76-III (6' deep or less)

150' of S-40 Barricade, Furnish & Install

E. WINDER ST. 50 Ft. WD. (32' Asph.) N 63°-59'-28" E

E. WINDER ST. 50 Ft. WD. (32' Asph.) N 00°-00'-22" E

E. WINDER ST. 60 Ft. WD. N 60°-00'-08" E (38' Asph.)

ST. ANTOINE ST. 50 Ft. WD. (32' Asph.)

BONAPARTE ST. 50 Ft. WD. (32' Asph.) N 63°-34'-50" E

25' of S-40 Barricade

N 26°-10'-21" W

PLAN
Scale: 1" = 40'

162.5' of S-40 Barricade, Furnish & Install

Ex. S.M.H.

Detour Eastbound

Existing Detour

E. ALLEY 18 Ft. WD. N 26°-09'-45" W

S-40 Barricade Furnish & Install 437.5 Lin. Ft.
For Barricade Lighting See Sh. #129

CURVE DATA FOR W'BD. VERNOR DETOUR

Curve 11	Curve 12	Curve 13
Δ = 58°-07'-45"	Δ = 60°-41'-42"	Δ = 58°-07'-45"
D = 57°-17'-44.81"	D = 32°-33'-15.91"	D = 41°-18'-22.19"
R = 100.000'	R = 176.000'	R = 138.710'
T = 55.578'	T = 103.042'	T = 77.093'
L = 101.455'	L = 186.442'	L = 140.728'
E = 14.407'	E = 27.945'	E = 19.984'
P.C. = 450+71.703	P.C. = 454+32.358	P.C. = –
P.I. = 451+27.281	P.I. = 455+35.400	P.I. = –
P.T. = 451+73.158	P.T. = 456+18.800	P.T. = –

Station	Remove Ex. Asph. Surf. Sq. Yds.	Bit. Conc. Pav't. Sq. Yds.
451+45	~~X~~ 0	~~X~~ 0
Totals	~~X~~ 0	~~X~~ 0

813 L.F. Det 2 Curb
2212 ~~2554~~ S.F. Temp. Walk
1222 Sq. Yds. Conc. Pav't 8" Unif.

0 ~~X~~ ton Bit. Conc. Wearing Course 9IAA
0 ~~X~~ ton Bit. Conc. Leveling Course
0 ~~X~~ Gal. Bit. Barrid Coat
Remove asphalt surface shown cross-hatched to provide for a smooth connection. Replace with Bituminous Concrete Pavement.

Notes:
Station shown in brackets, thus ( ), refer to the Existing Street Survey Stationing.
Bench Marks are on City of Detroit Datum.
Existing Sidewalks or Existing Detour Pavement to remain.
Existing Drainage

8" Uniform Concrete Pavement (Non-Reinforced)
7" Conc. Curb Detail 2, Left & Right

Excavation ---------- 100 Cu. Yds.
Waste ---------- 100 Cu. Yds.

Approx. Exist. Ground Profile
PROP. WEST EDGE OF PAV'T.
Ex. Winder
Ex. Brush
80' V.C.
+0.40%
-2.00%
C.B. 6 M.H.
P.V.I. 134+47
2+50.00
Outlet 131.0
PROP. EAST EDGE OF PAV'T.
Ex. Winder
Ex. Brush
C.B. 3 M.H.
Inlet 130.9
S.I.L. 130.6
Ex. Sewer to Ex. S.M.H.

PROFILES
Hor. 1" = 40'
Scale:
Vert. 1" = 8'

Excavation ---------- 620 Cu. Yds.
Embankment ---------- 9 Cu. Yds.
25% Shrinkage ---------- 2 Cu. Yds.
Waste ---------- 609 Cu. Yds.

WINDSOR ST.
C.B. 3 M.H.
Outlet 131.5
P.V.I. 137.66
451+95.00
P.V.I. 138.79
452+70.00
120' V.C.
+1.50%
-2.00%
PROP. NORTH EDGE OF PAV'T.
Approx. Exist. Ground Profile 15' Lt. & Rt.
NAPOLEON ST.
C.B. 3 M.H.
To Ex. S.M.H. Inlet 131.1
Outlet 131.6
Inlet 131.8
P.V.I. 132.59
454+36.00
PROP. SOUTH EDGE OF PAV'T.
Prop. S.M.H.
Cut Outlet 124.4
Inlet 131.1
P.V.I. 137.50
454+44.00
P.V.I. 138.79
452+70.00
C.B. 6 M.H.
Outlet 132.0
P.V.I. 132.59
453+60.00

PROFILES
Scale: Hor. 1" = 40'
Vert. 1" = 8'

PLAN AND PROFILE
WESTBOUND VERNOR DETOUR
STA. 451+23 TO STA. 455+40
& CONN. AT BRUSH & WINDER

FILE NO. USE NO. 1390 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	F-75-1(08)54	37

OPERATION / BY / DATE
PRELIMINARY R. O. W. CHECKED
FINAL DESIGN CHECKED
TRACED
FINAL R. O. W. CHECK
QUANTITIES
QUANTITIES CHECKED
SQUAD

PLANS PREPARED BY:
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION / BY / DATE
SURVEYED
PLAN PLOTTED
PLAN CHECKED
PROFILE PLOTTED
PROFILE CHECKED
PRELIMINARY GRADE
GRADE INSPECTION
FEDERAL INSPECTION

SQUAD LEADER: A. MUZ - J.K. WILKEY 12-54
DRAWN BY: F. CALABRANO 12-54
TRA. ED. BY:
CHECKED BY: G. HOEKING 12-54
CORRECT: G. HOEKING 1-55
RECOMMENDED FOR APPROVAL:

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	38	

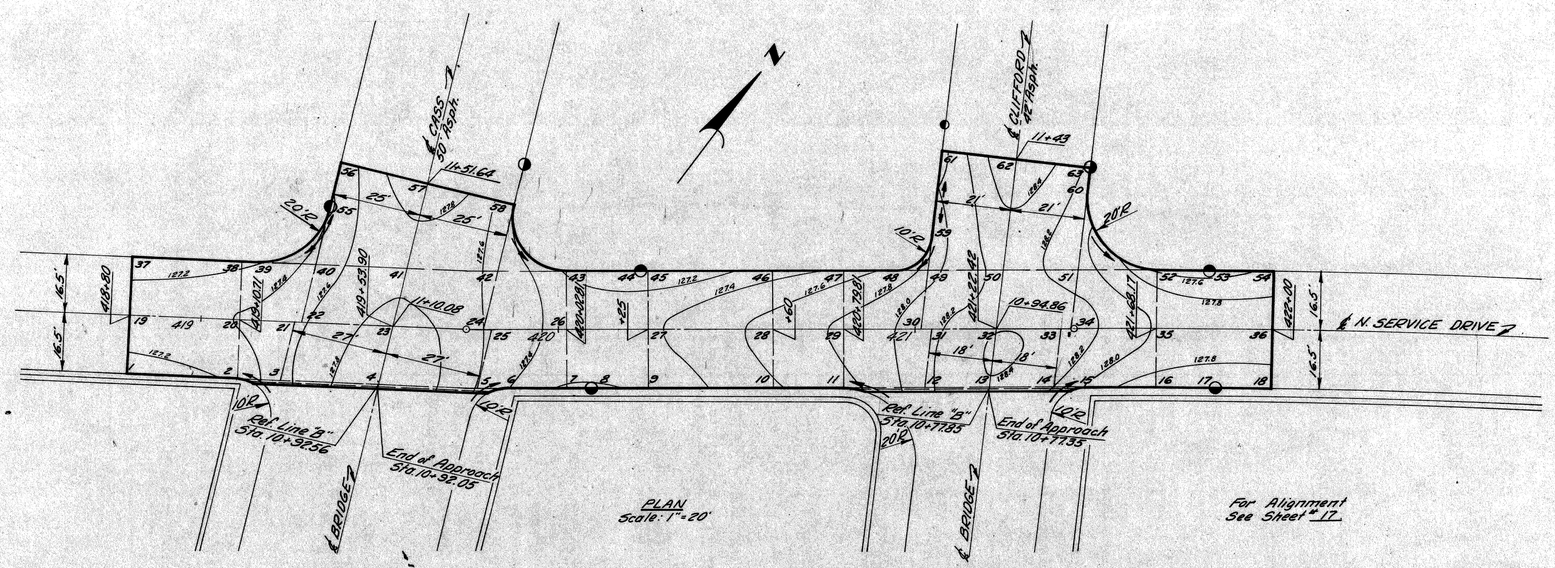
B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

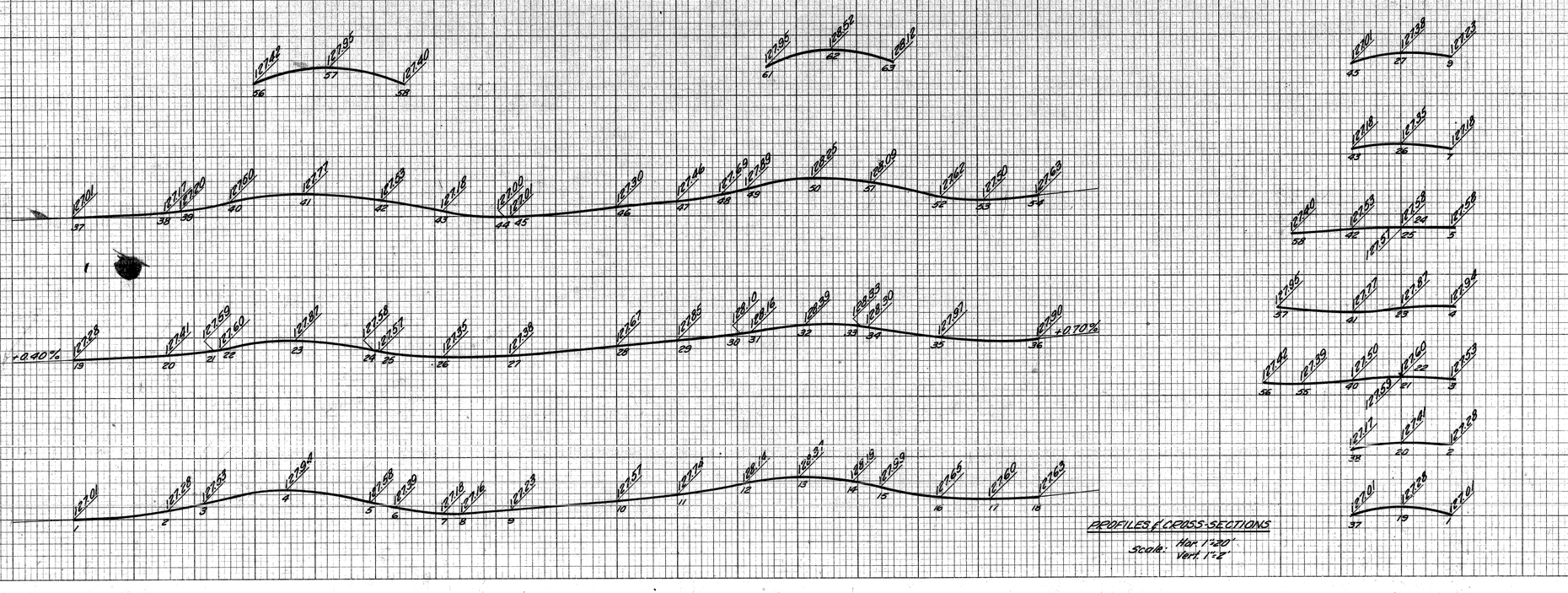
OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED	"	
FINAL R.O.W.	"	
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS, AND EXPRESSWAYS

OPERATION	BY	DATE
SURVEYED	J. E. MICKEY	12-44
PLAN PLOTTED	M. PALMO	12-44
PLAN TRACED		
PROFILE PLOTTED	R. COMEY	12-44
PROFILE CHECKED	Allen E. Sharpe	12-44
PRELIMINARY GRADE		
FINAL INSPECTION		
FEDERAL INSPECTION		

SQUAD LEADER
TRACED
CHECKED
CORRECTED
RECOMMENDED FOR APPROVAL





PROFILES & CROSS-SECTIONS
Scale: Hor. 1"=20'
Vert. 1"=5'

DETAILED GRADES
NORTH SERVICE DRIVE
AT CASS AVE AND CLIFFORD ST.

FILE NO. USE NO. 350 STENCIL	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C11	82195	I-75-1(88)54	38

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-151(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	39	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

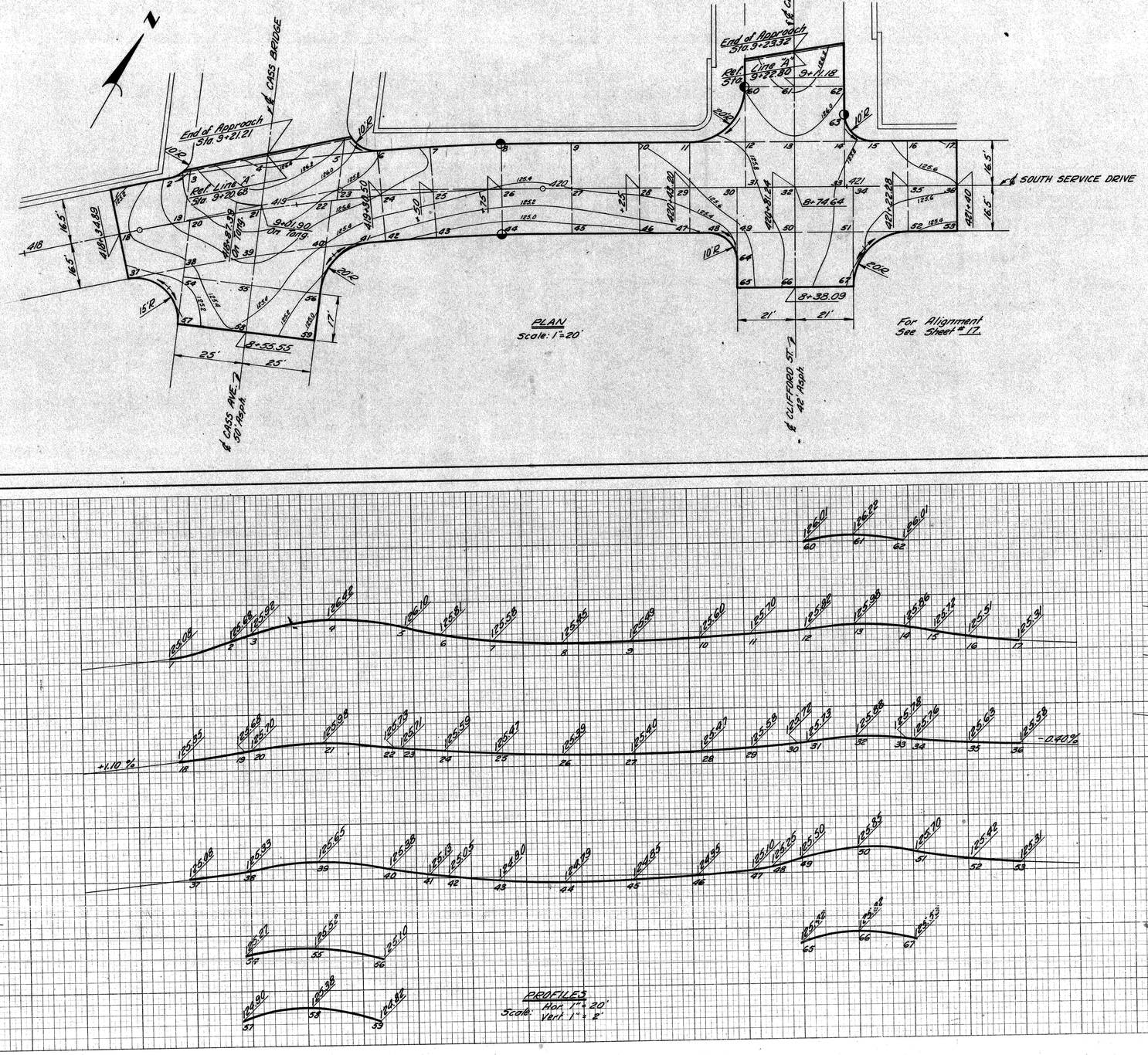
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
FINAL R.O.W.		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUADS		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
FINAL GRADE		
FEDERAL INSPECTION		

J.V. WICKEY	12-44	
M. POLITO	12-44	
R. CONLY	12-44	
Allen E. Conly Jr.	12-44	

NOTED FEATURES
PAWN BY
CHECKED BY
CORRECT
USE REGULATIONS

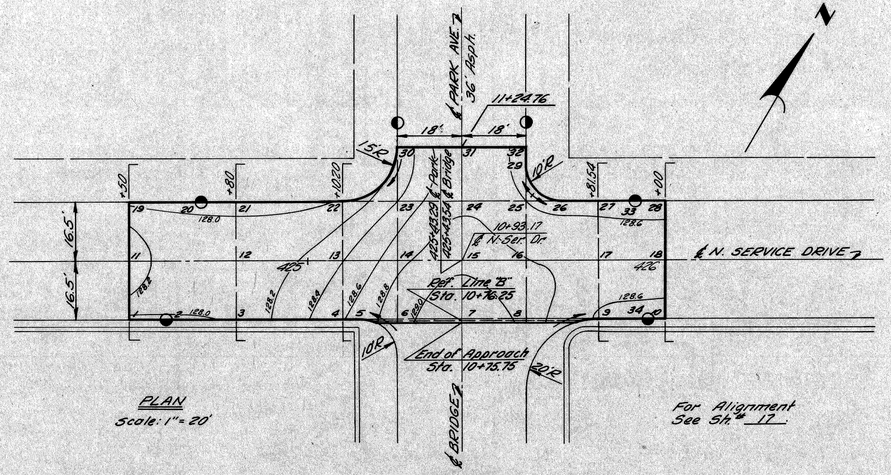


DETAILED GRADES SOUTH SERVICE DRIVE AT CASS AVE. AND CLIFFORD ST.

FILE NO. NO. SERO SYENGR.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195B C11	82195	F-151(88)54	39

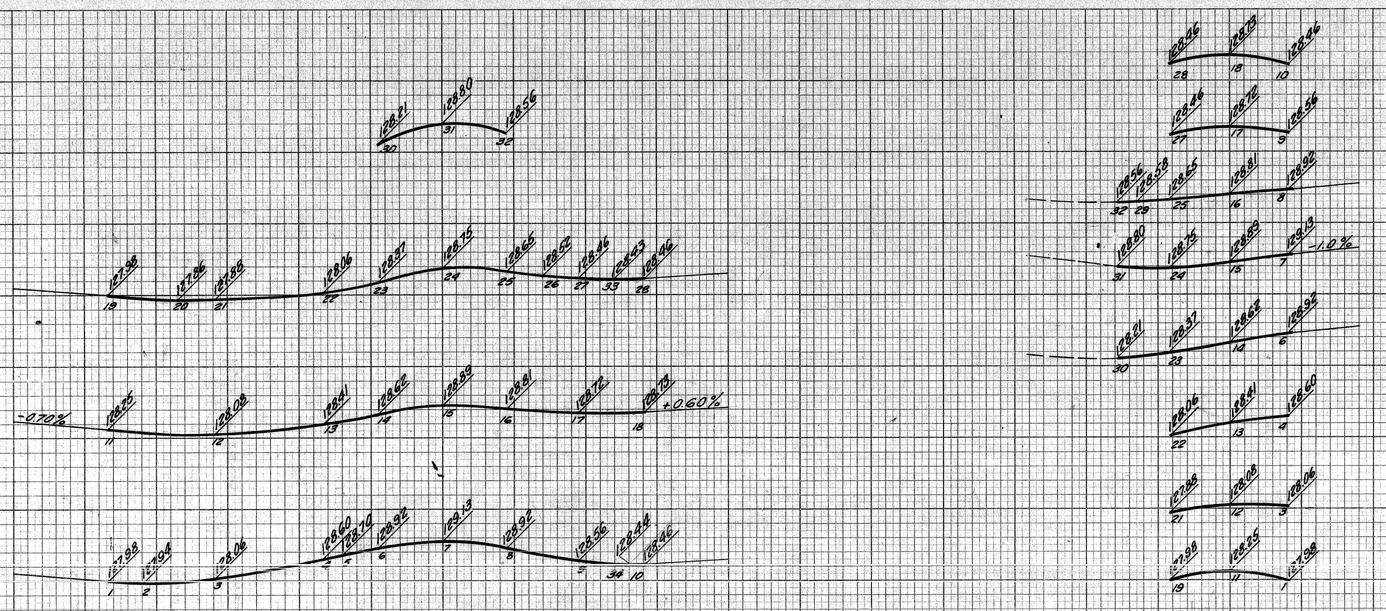
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-V(80)59			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	40	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



PLAN
Scale: 1" = 20'

For Alignment
See Sh. # 17



PROFILES & CROSS-SECTIONS
Scale: Hor. 1"=20'
Vert. 1"=2'

DETAILED GRADES
NORTH SERVICE DRIVE
AT PARK AVE.

FILE NO. USE NO. 330 STENCIL	82195B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	F-75-V(80)59	40

OPERATION	BY	DATE
PRELIMINARY H.C.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED		
FINAL H.C.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

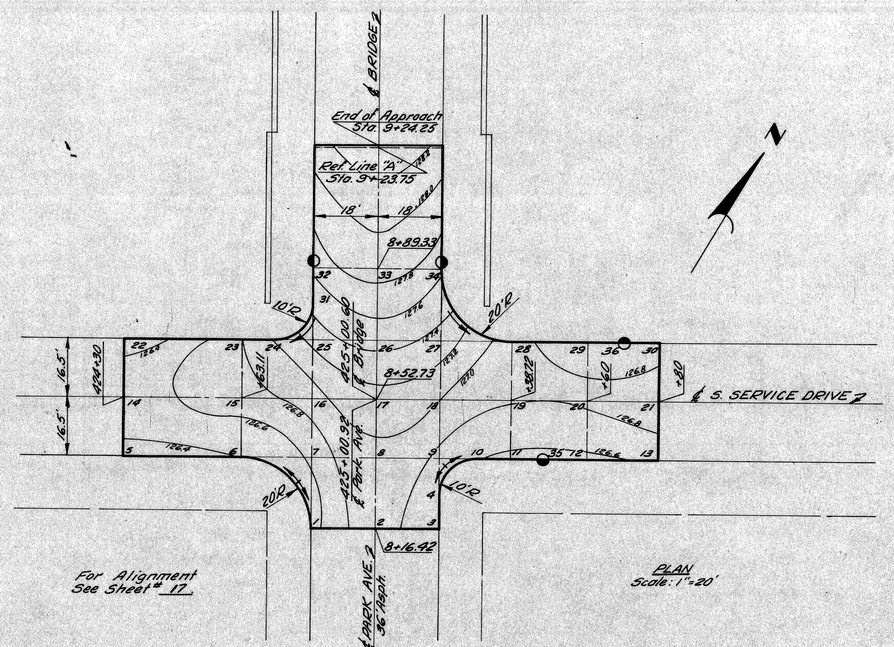
PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
FIELD INSPECTION		
GRADE INSPECTION		
FEDERAL INSPECTION		

SQUAD LEADER: J.V. WICKLEY 12-48
COMPUTED BY: M. POLITO 12-48
TRACED BY: C. LICHTO 12-48
CORRECTED BY: [illegible] 12-48
CHECKED BY: [illegible]
SUBMITTED: [illegible]
FOR APPROVAL: [illegible]

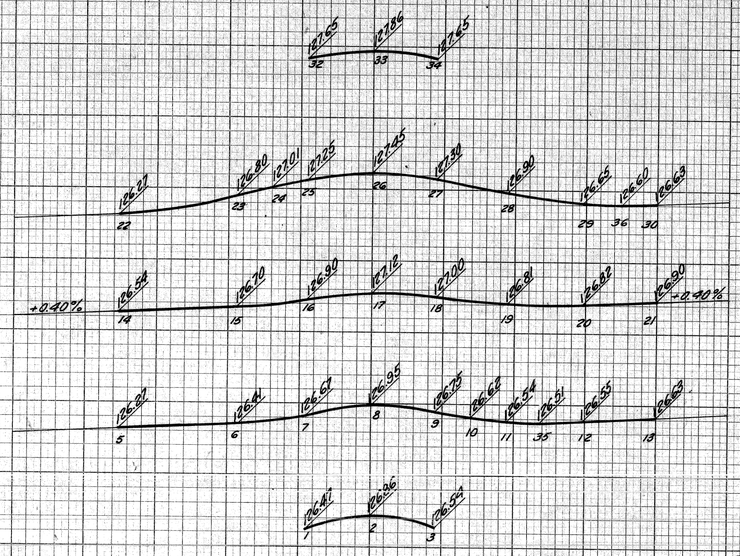
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(88)54			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	41	

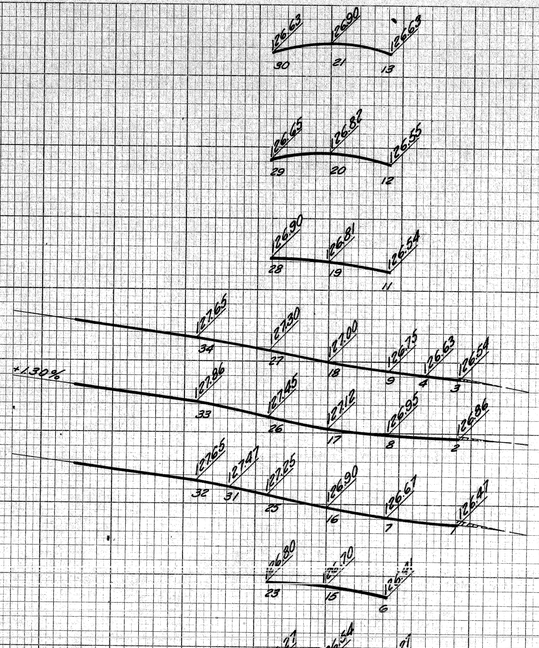
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



For Alignment See Sheet # 11

PLAN
Scale: 1"=20'





PROFILES & CROSS-SECTIONS
Scale: Hor. 1"=20'
Vert. 1"=2'

DETAILED GRADES
SOUTH SERVICE DRIVE
AT PARK AVE.

FILE NO. USE NO. 350 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	I-75-1(88)54	41

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
FINAL R.O.W.		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

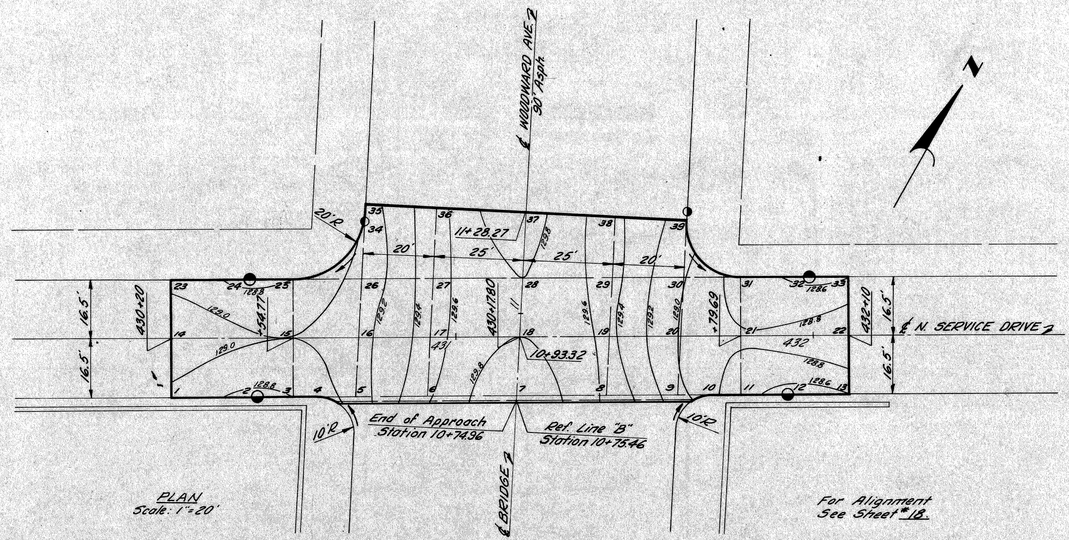
OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PROFILE INTERFACE		
GRADE INSPECTION		
FEDERAL INSPECTION		

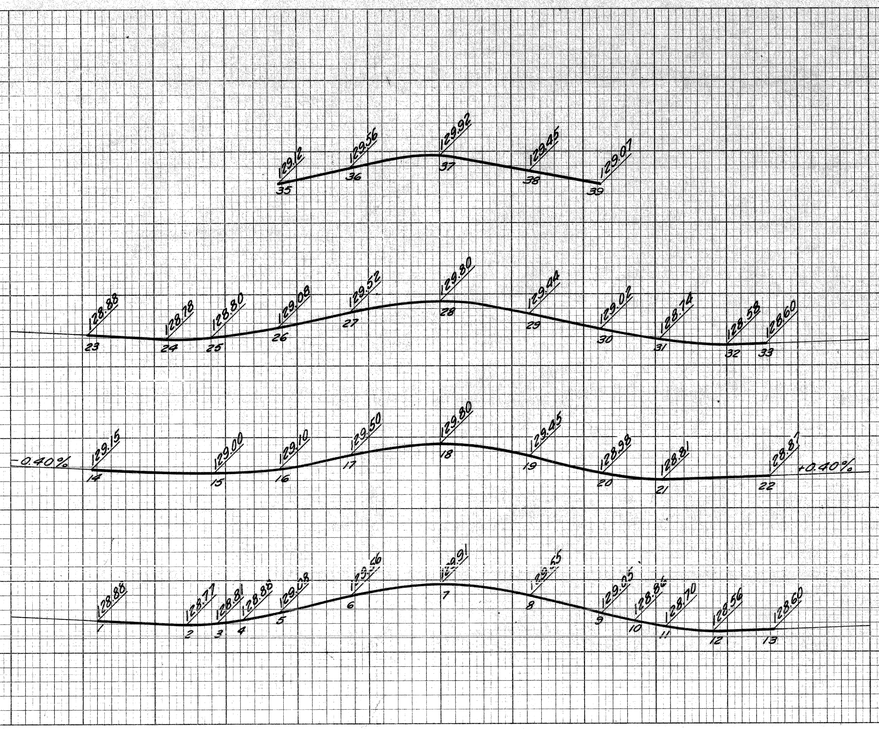
J.V. MICKEY 12-64
M. POLITO 12-64
C.E. ENTO 12-64
Adam E. Rumpp

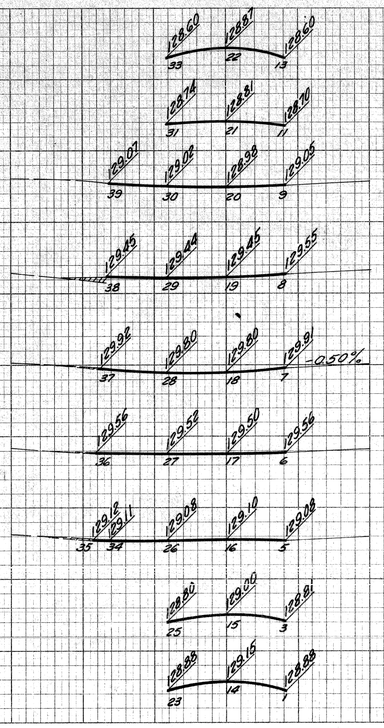
BRUNING BLUE-PRINT

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	I-75-1(68)59			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	42	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS







PROFILES & CROSS-SECTIONS
Scale: Hor 1"=20'
Vert 1"=2'

DETAILED GRADES NORTH SERVICE DRIVE AT WOODWARD AVE.

FILE NO. USE NO. 350 STENCIL	82195 B C11	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
		82195	FTS-1(68)59A	42

OPERATION	BY	DATE
PRELIMINARY R.O.W. OKEDRED		
FINAL DESIGN		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN CHECKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
GRADE INSPECTION		
FINAL INSPECTION		

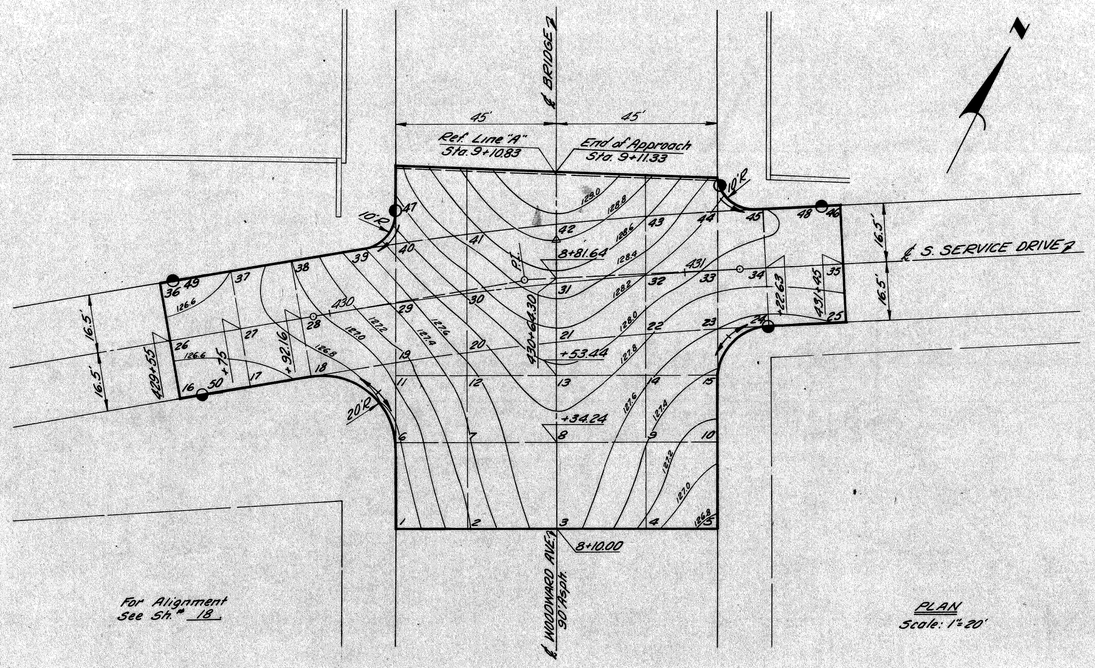
PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE
BUREAU OF HIGHWAYS AND EXPRESSWAYS

SQUAD LEADER
DRAWN BY
TRACED
CHECKED
CORRECTED
RECOMPUTED
CHECKED

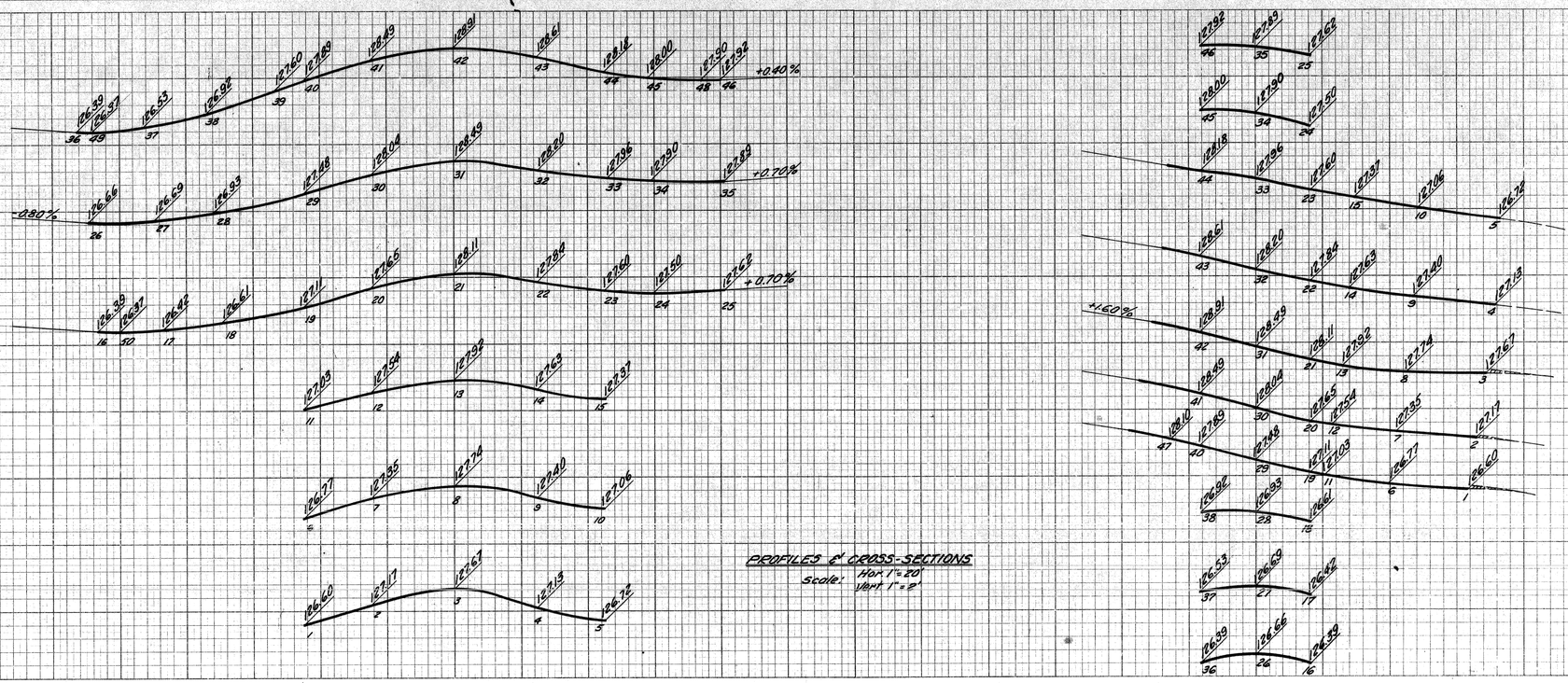
J.V. WICKEY 12-64
M. POLITO 12-64
EDWARD E. PLAYER 12-64

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.	F-75-1(88)SA			
ROUTE	STATE PROJECT	COUNTY	City	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	43	

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



PLAN
Scale: 1"=20'



PROFILES & CROSS-SECTIONS
Scale: Hor. 1"=20'
Vert. 1"=2'

DETAILED GRADES
SOUTH SERVICE DRIVE
AT WOODWARD AVE.

OPERATION	BY	DATE
PRELIMINARY R.O.W. CHECKED		
FINAL TOPO. CHECK		
FINAL DESIGN CHECKED		
TRACED		
FINAL R.O.W. CHECK		
QUANTITIES		
QUANTITIES CHECKED		
SQUAD		

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PLAN INKED		
PROFILE PLOTTED		
PROFILE CHECKED		
PRELIM. PLAN & PROFILE		
PRELIMINARY GRADE		
FIELD INSPECTION		
FEDERAL INSPECTION		

PREPARED BY
BUREAU OF HIGHWAYS AND EXPRESSWAYS
CITY ENGINEERS OFFICE
DEPARTMENT OF PUBLIC WORKS
CITY OF DETROIT

J.V. MICKEY 12-64
M. POLITO 12-64
G. LEHTO 12-64
Glenn E. Bryant 12-64

FILE NO. USE NO. 130 STENCIL	82195 B C11	STATE PROJECT 82195	FEDERAL PROJECT F-75-1(88)SA	SHEET NO. 43