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For Index of Plans of S18, S19, S20 of 82195 D and D04 of 82195 D. See Sheet No. 350-A

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**MICHIGAN
STATE HIGHWAY DEPARTMENT**

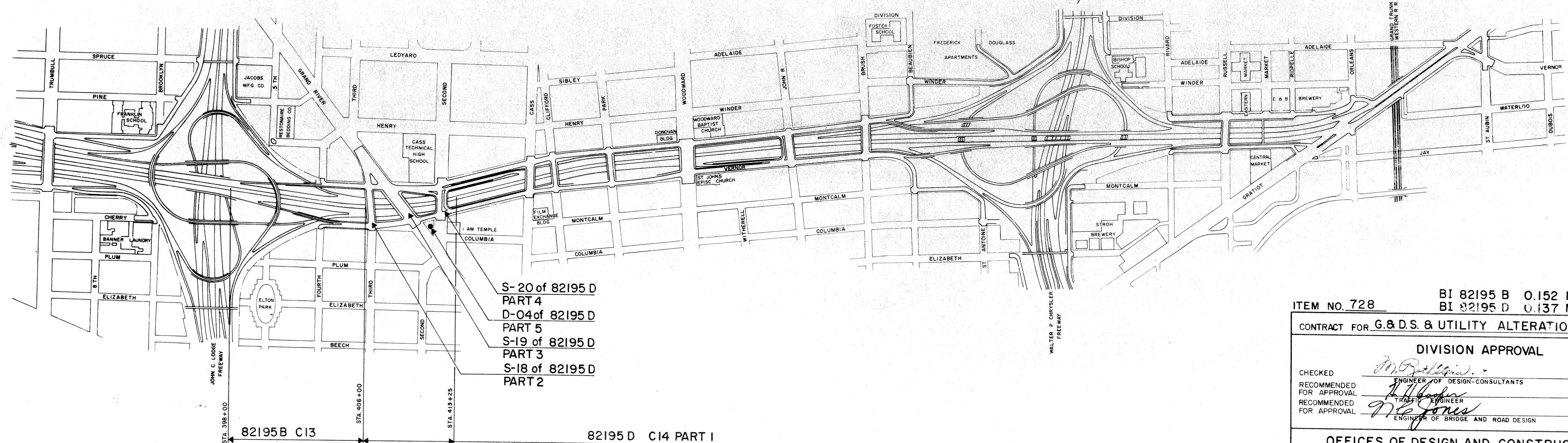
PLANS OF PROPOSED
MICHIGAN PROJECT I-75-1(87)53
STATE PROJECT BI 82195 B C13
BI 82195 D C14 Parts 1, 2, 3, 4 & 5
FISHER FREEWAY

WAYNE COUNTY
CITY OF DETROIT

ROUTE	STATE PROJECT	FEDERAL NO.	SHEET NO.	TOTAL SHEETS
82195	I-75-1(87)53		1	

109,500-M-60

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



S-20 of 82195 D PART 4
D-04 of 82195 D PART 5
S-19 of 82195 D PART 3
S-18 of 82195 D PART 2

82195 B C13
MICHIGAN PROJECT I-75-1(87)53
CONTROL SECTION BI 82195 B

82195 D C14 PART 1
MICHIGAN PROJECT I-75-1(87)53
CONTROL SECTION BI 82195 D

ITEM NO. 728 BI 82195 B 0.152 Miles
BI 82195 D 0.137 Miles

CONTRACT FOR G.&D.S. & UTILITY ALTERATIONS

DIVISION APPROVAL

CHECKED	<i>M. P. Robinson</i>	4-10-65
RECOMMENDED FOR APPROVAL	ENGINEER OF DESIGN-CONSULTANTS	4-16-65
RECOMMENDED FOR APPROVAL	TRUCK ENGINEER	4-16-65
RECOMMENDED FOR APPROVAL	ENGINEER OF BRIDGE AND ROAD DESIGN	4-16-65

OFFICES OF DESIGN AND CONSTRUCTION

APPROVED	<i>John E. Murray</i>	4-20-65
	CONSTRUCTION ENGINEER	DATE
APPROVED	<i>John E. Murray</i>	4/21/65
	CHIEF DESIGN ENGINEER	DATE

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

APPROVED *R. R. Hicks*
ENGINEER OF EXPRESSWAYS

APPROVED *Edward Bernarducci*
ASSOCIATE CITY ENGINEER-HIGHWAYS AND EXPRESSWAYS

APPROVED *Clayton R. Valerius*
CITY ENGINEER

APPROVED *[Signature]*
COMMISSIONER OF PUBLIC WORKS AND EXPRESSWAY COORDINATOR

STATE HIGHWAY DEPARTMENT APPROVAL
HOWARD E. HILL, Acting Director

APPROVED BY *John E. Murray*
DIRECTOR OF ENGINEERING-CHIEF ENGINEER

PLANS PREPARED BY
CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED _____
DIVISION ENGINEER

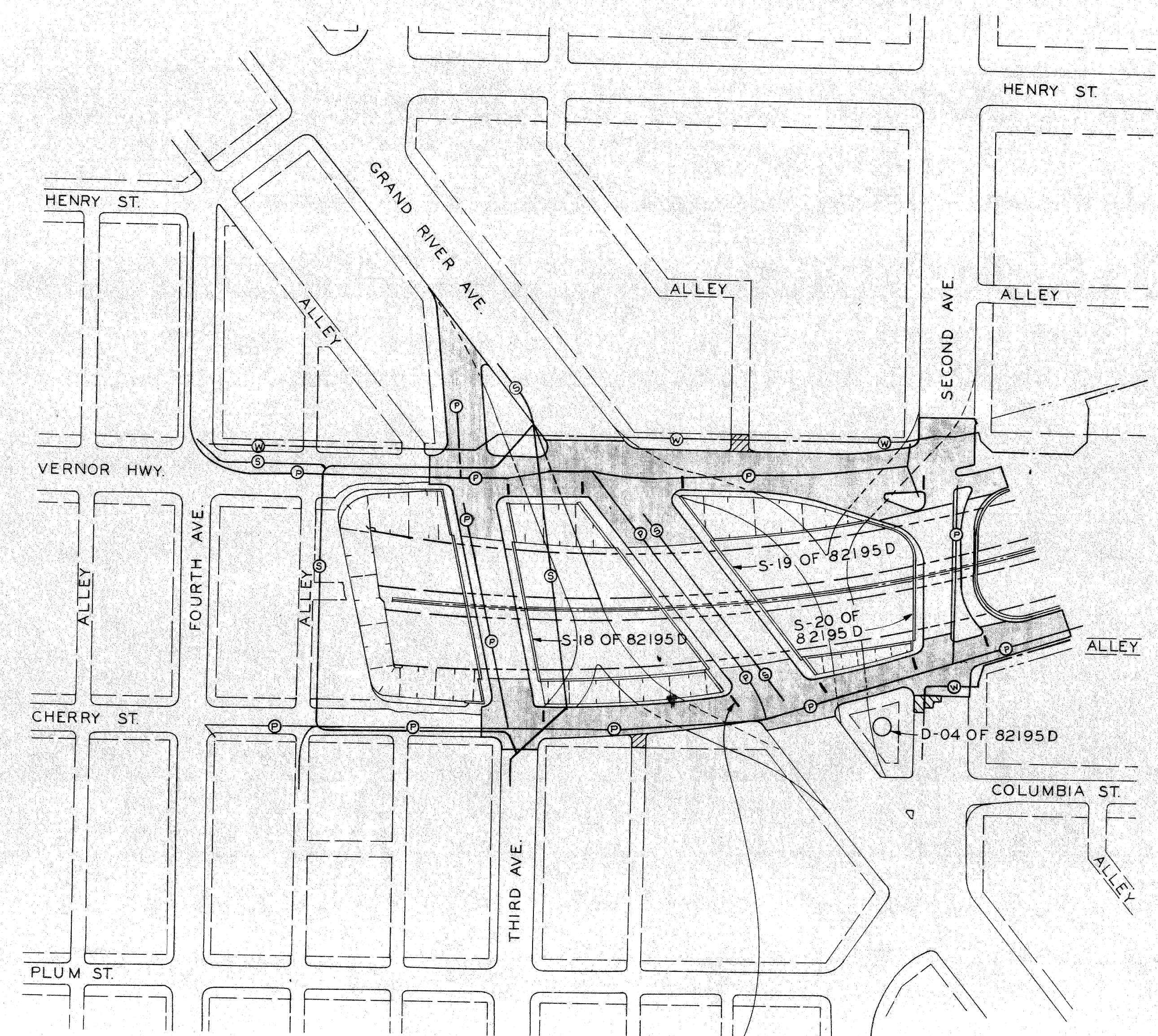
DATE _____

82195 B C13	PROJECT NO. 82195	FEDERAL PROJECT I-75-1(87)53	SHEET NO. 1
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PROJECT NO. 82195 B C13, 82195 D C14

B. P. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		2	

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



SCALE: 1"=100'

Typical Placement of Barricades on Service Drives at all Cross Streets upon Completion of Service Drive Paving. For Quantities See Sh.#3

SURFACING LEGEND

	Concrete Pavement, 9" Uniform
	2" Bit. Conc. on Conc. Base Course, 9" Uniform
	Concrete Pavement, 8" Uniform

UTILITIES LEGEND

S	Sewer
W	Water Main
P	PLC. Conduit

- ITEMS IN CONTRACT**
- FREEWAY**
Grading and Drainage from West of Third Avenue to East of Second
- SURFACE STREETS**
- Grading, Drainage, and Paving of North and South Service Drives from Third Avenue to Second Avenue
 - Grading, Drainage and Paving of Detours for Grand River Avenue, Second Avenue, and Third Avenue.
- UTILITY ALTERATIONS**
- Sewers**
- First-Hamilton Relief Sewer Reconstruction
 - Third Avenue Sewer Relocation
 - Fourth Avenue Sewer Connection
 - 4'-6" Cylinder Sewer Crossing East of Fourth Avenue
 - Miscellaneous Alterations
- Water Mains**
- North Side 12" Main from Fourth Avenue to Second Avenue
 - South Side 12" Main at Second Avenue
 - Miscellaneous Alterations
- Lighting**
- Lighting of Surface Streets
 - Re-routing P.L.C. Facilities
 - Traffic Signalization
 - Miscellaneous Alterations

- BRIDGES AND STRUCTURES**
- Third Avenue ----- S-18 of 82195 D
 - Grand River Avenue ----- S-19 of 82195 D
 - Second Avenue ----- S-20 of 82195 D
 - Pumping Station ----- D-04 of 82195 D
 - Retaining Walls along North and South Sides of Freeway
 - Median Retaining Wall

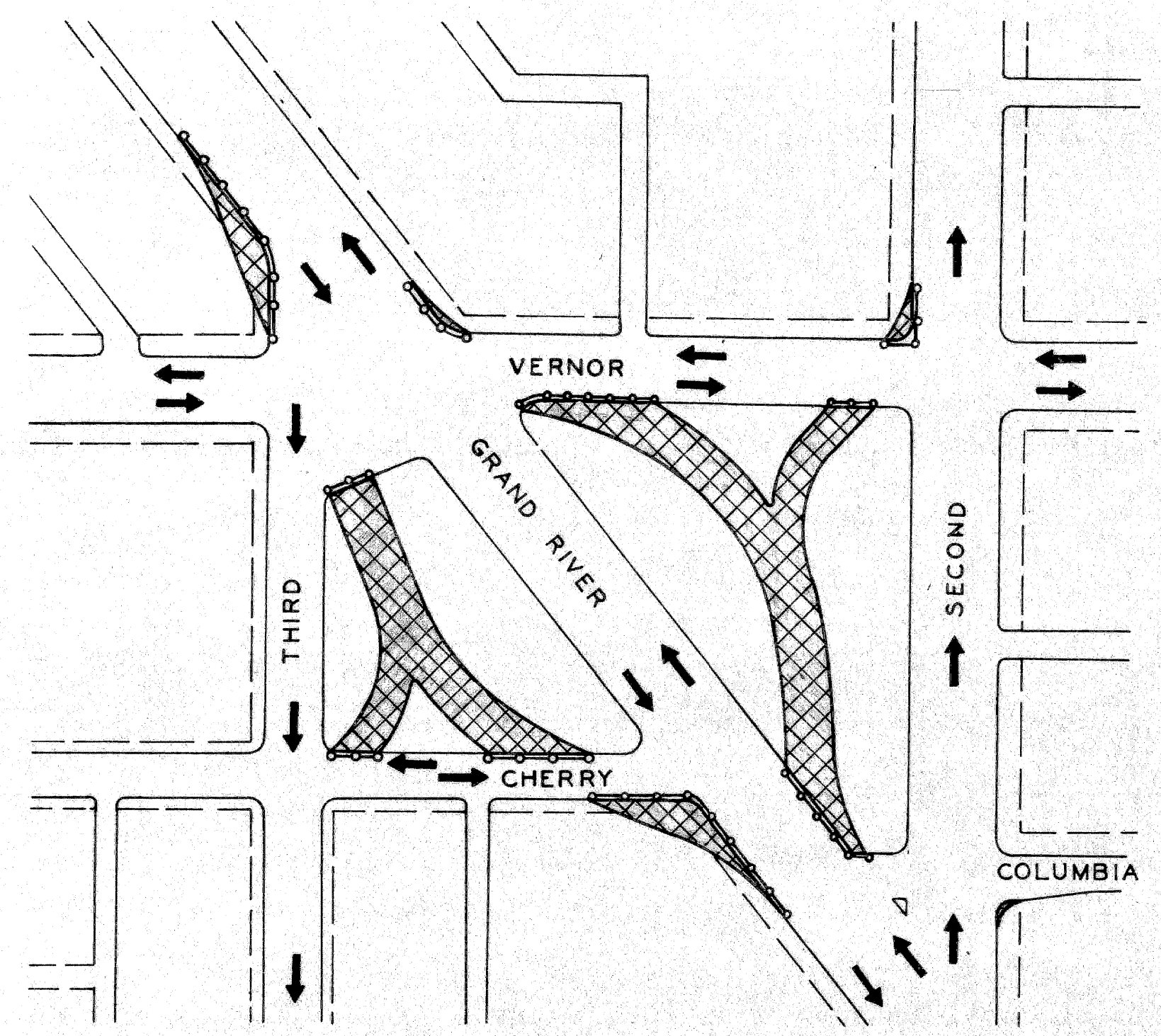
G.P. 82195
 F.A. CALABRANO
 4-65
 G.D. MICE
 Allen & Meyer
 4-65

PLANNING DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS

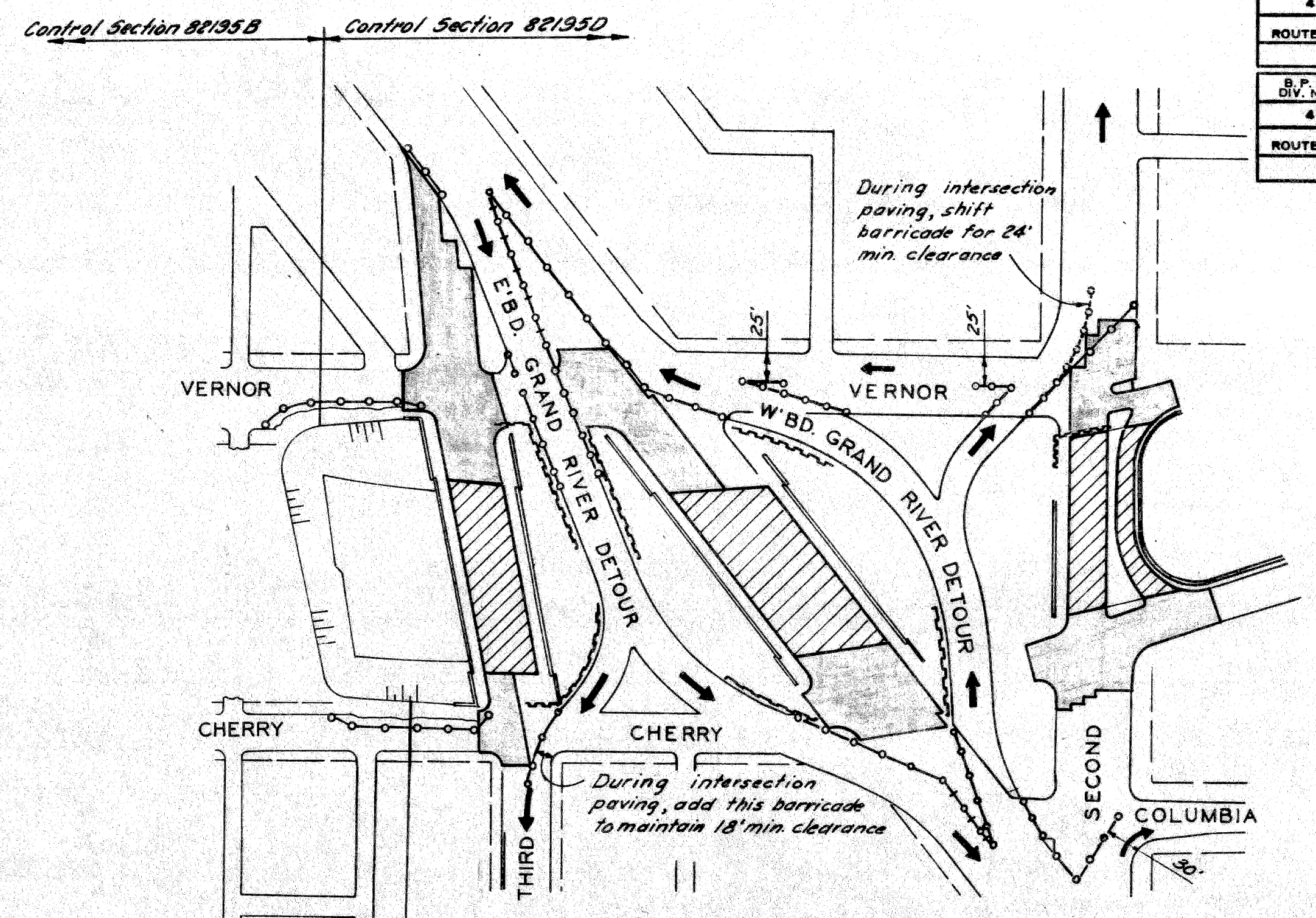
GENERAL PLAN

FILE NO.	82195 B C13	PROJECT	1-75-107153	SHEET	2
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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		9	
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



STAGE I



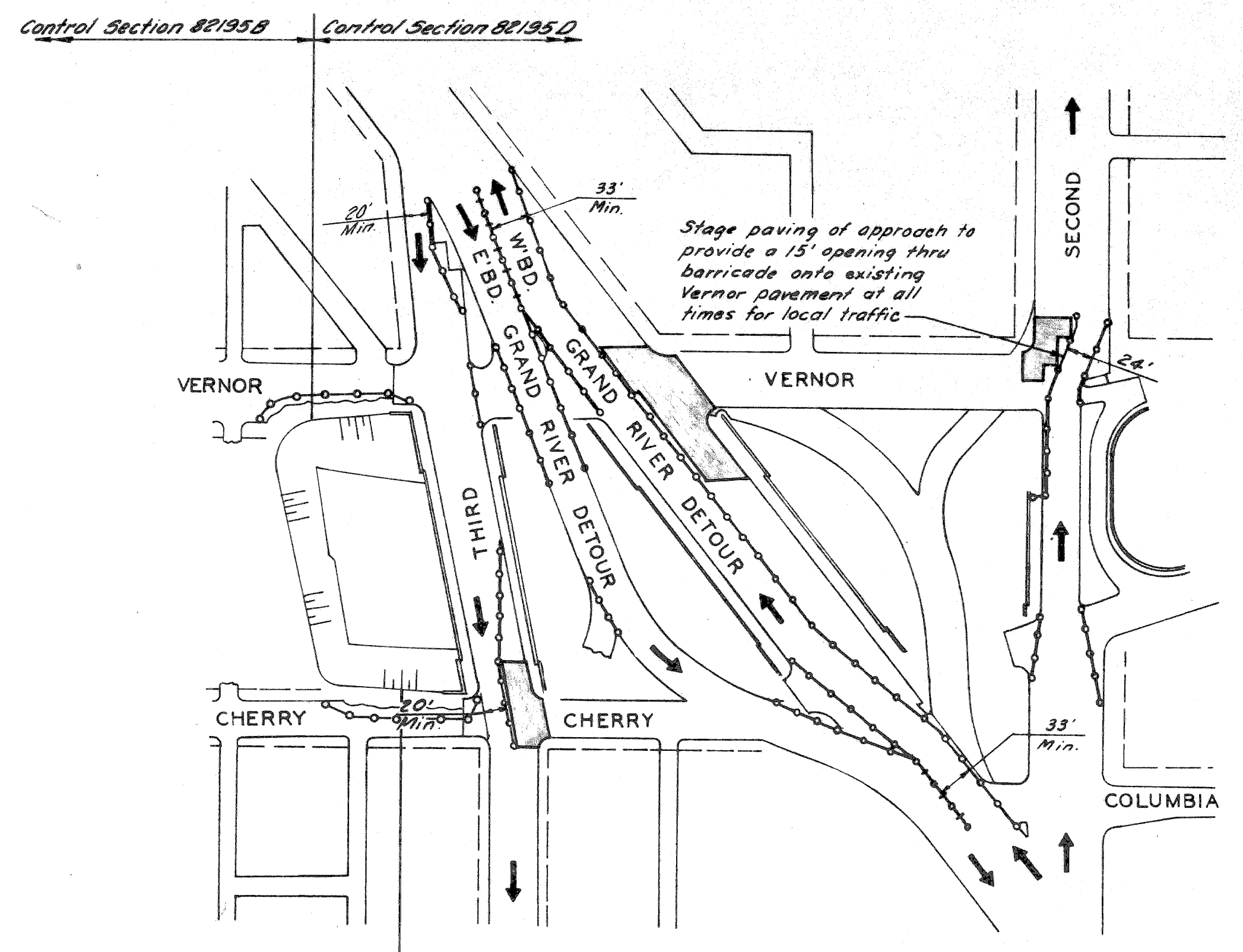
STAGE II

LEGEND

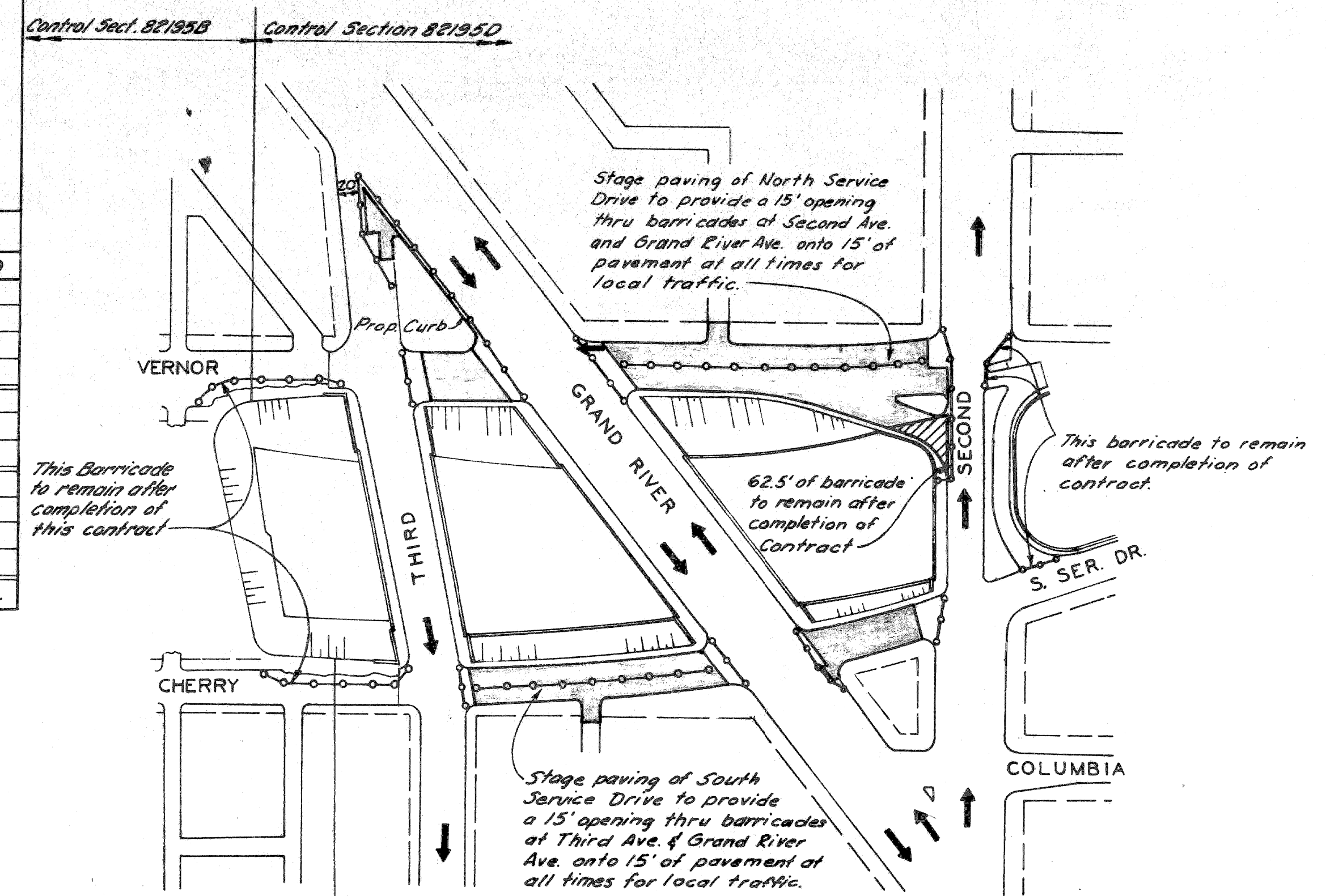
- 5-40 Barricade
- 5-40 Barricade (Modified)
- ▨ Temporary Pavement: Built this Stage
- ▩ Permanent Pavement: Built this Stage
- ▧ Bridge Pavement: Built this Stage

QUANTITIES		
Control Section	82195 B	82195 D
5-40 Barricade	Lin. Ft.	
Furnish & Install	137.5	1,787.5
Relocate	-	3,800.0
Remove	-	1,437.5
5-40 Barricade-Modified	Lin. Ft.	
Furnish & Install	-	212.5
Remove	-	212.5
Barricade (See Sh# 2)	Each	
Furnish & Install	-	9
Relocate	-	1
Remove	-	-

Note: For barricade lighting See P.L.C. dwgs.



STAGE III



STAGE IV

SCALE: 1"=100'

CONSTRUCTION SEQUENCE
Grand River, Third & Second Ave.
Detours, Bridges & Bridge Approaches,
& North & South Service Drives

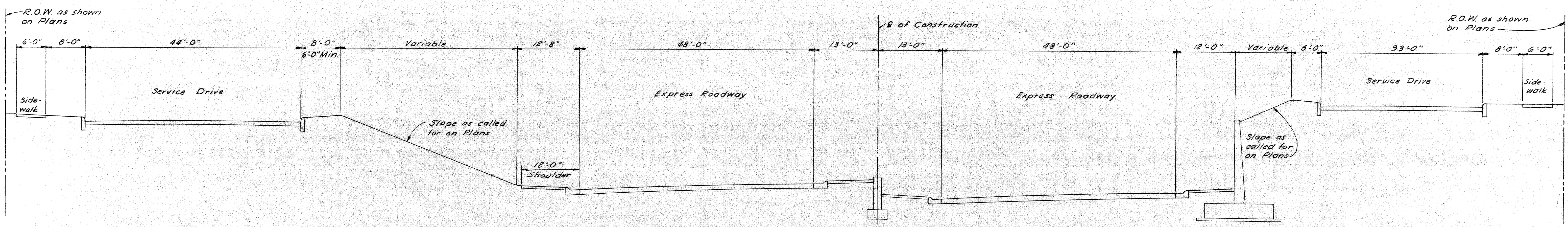
DESIGNED BY	E.A. CALABRANO
DRAWN BY	B.J. TEMPORELLI
CHECKED BY	[Signature]
APPROVED	[Signature]

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

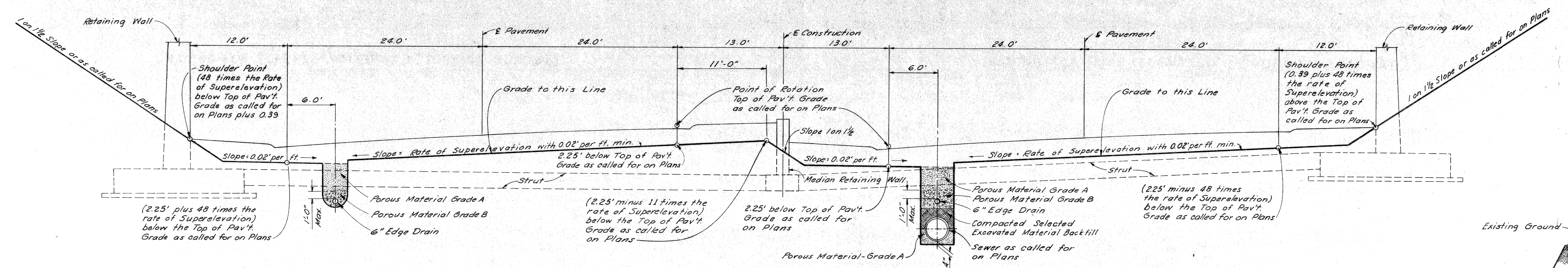
TYPICAL CROSS-SECTIONS

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
48	BE/95	Wayne	Dearborn	4	

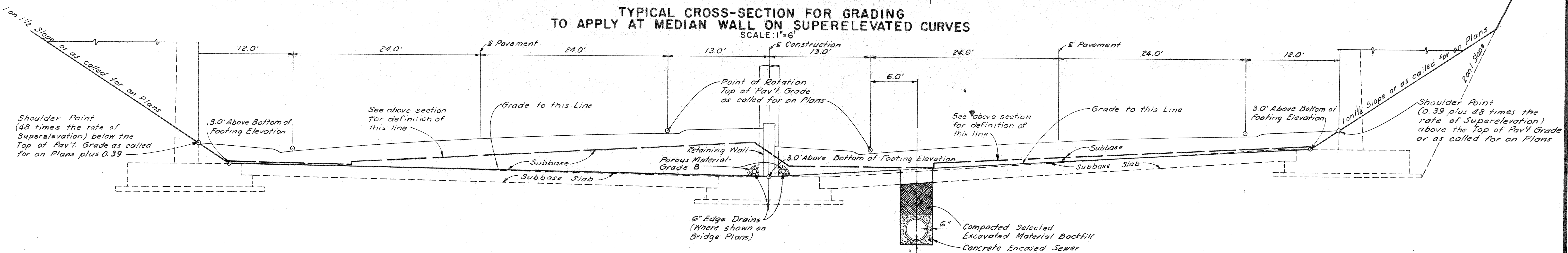
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
48	BE/95	Wayne	Dearborn	4	



GENERAL TYPICAL CROSS-SECTION
SCALE: 1"=10'



TYPICAL CROSS-SECTION FOR GRADING TO APPLY AT MEDIAN WALL ON SUPERELEVATED CURVES
SCALE: 1"=6'



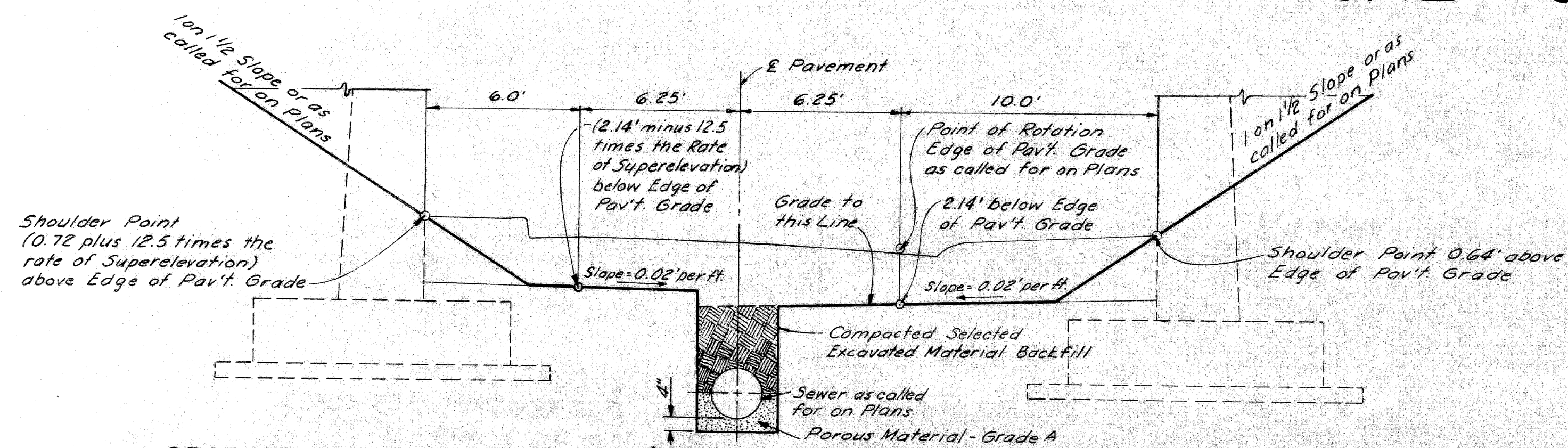
TYPICAL CROSS-SECTION FOR GRADING TO APPLY UNDER STRUCTURES ON SUPERELEVATED CURVES
SCALE: 1"=6'

48' ROADWAYS

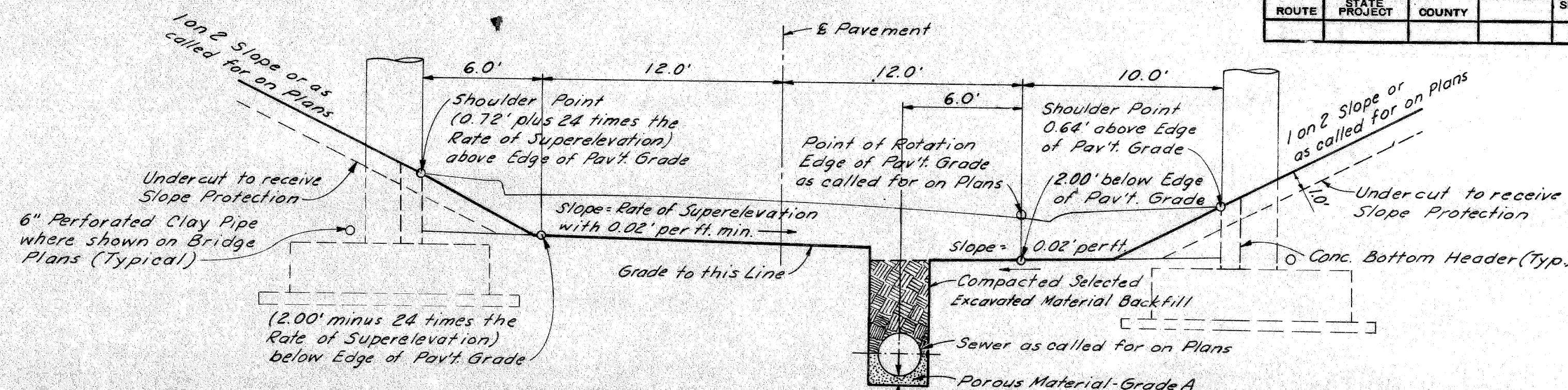
TYPICAL CROSS-SECTIONS

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	5	

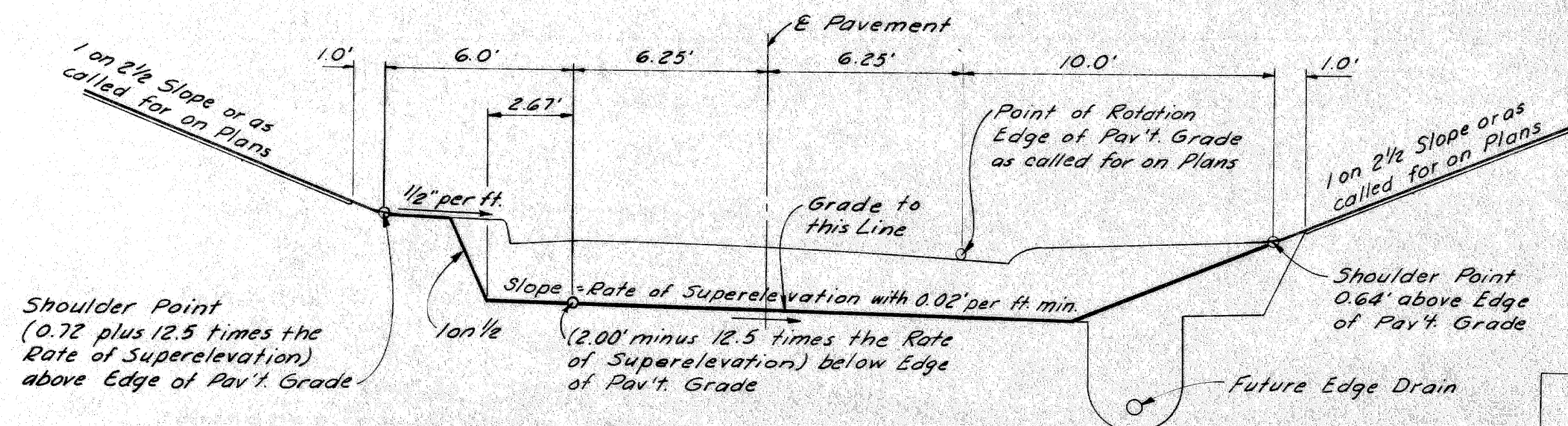
DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	5	



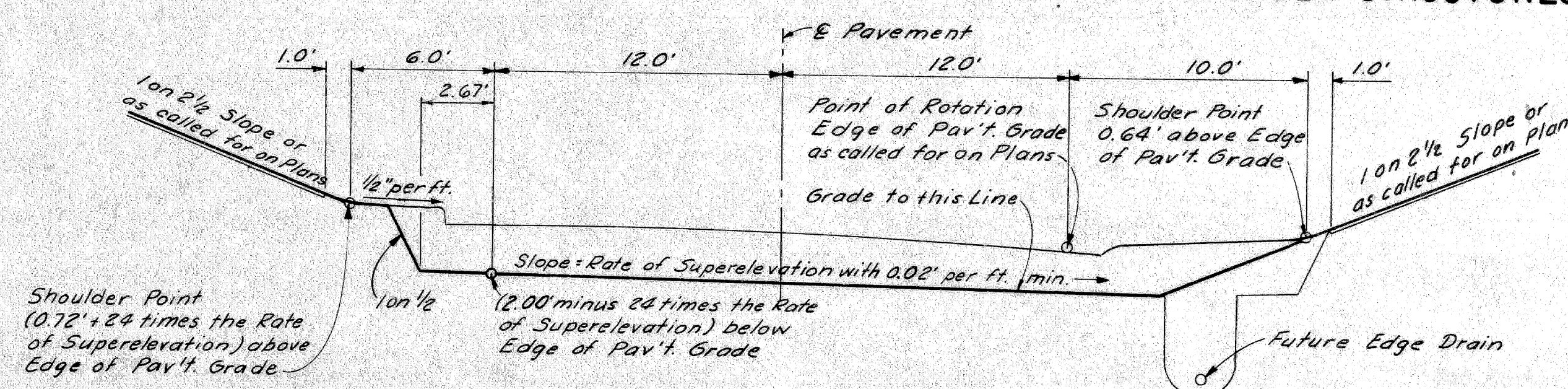
GRADING FOR SUPERELEVATED* 12'-6" TURNING ROADWAY UNDER STRUCTURES



GRADING FOR SUPERELEVATED* 24' TURNING ROADWAY UNDER STRUCTURES

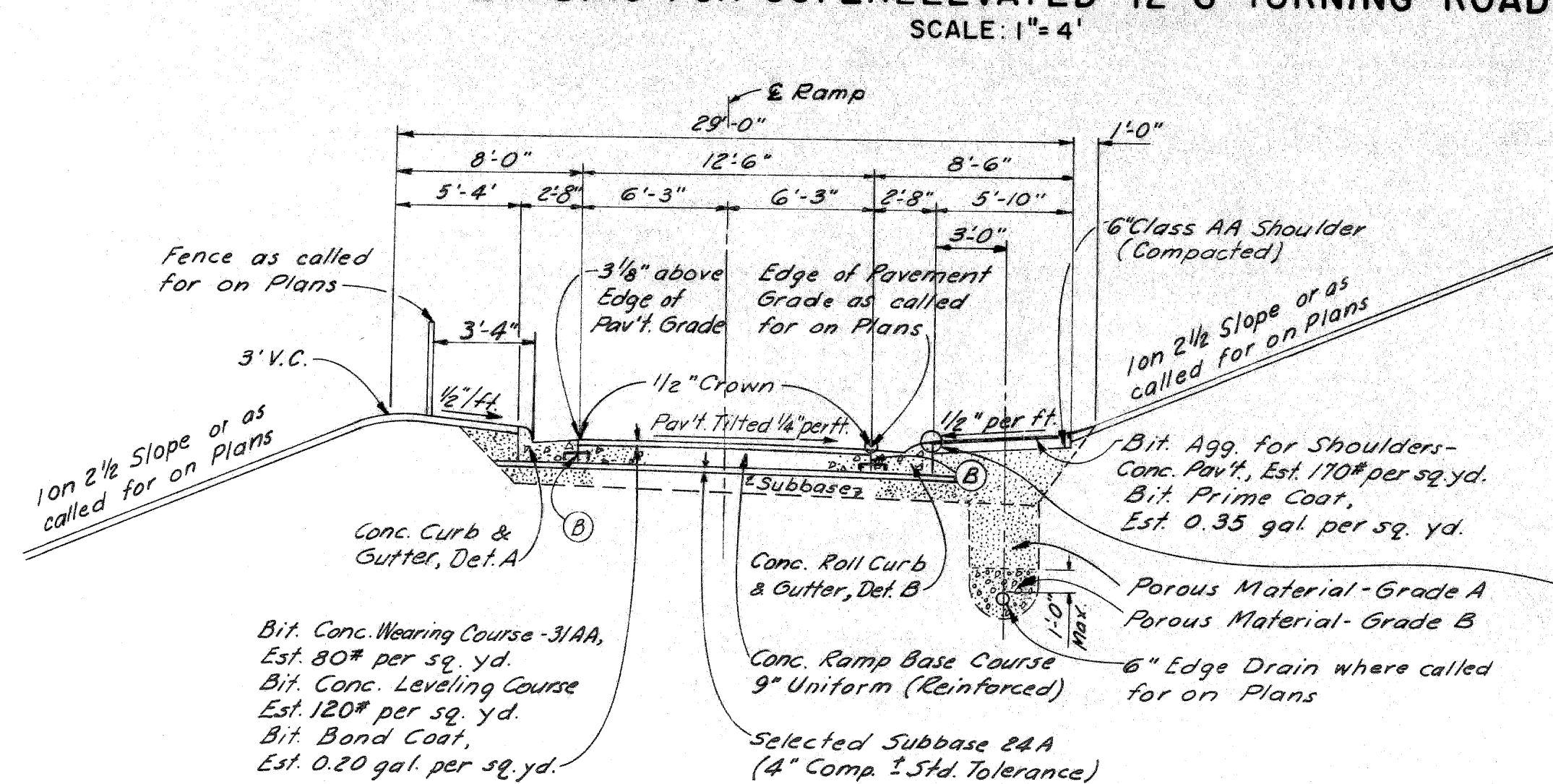


GRADING FOR SUPERELEVATED* 12'-6" TURNING ROADWAY
SCALE: 1"=4'

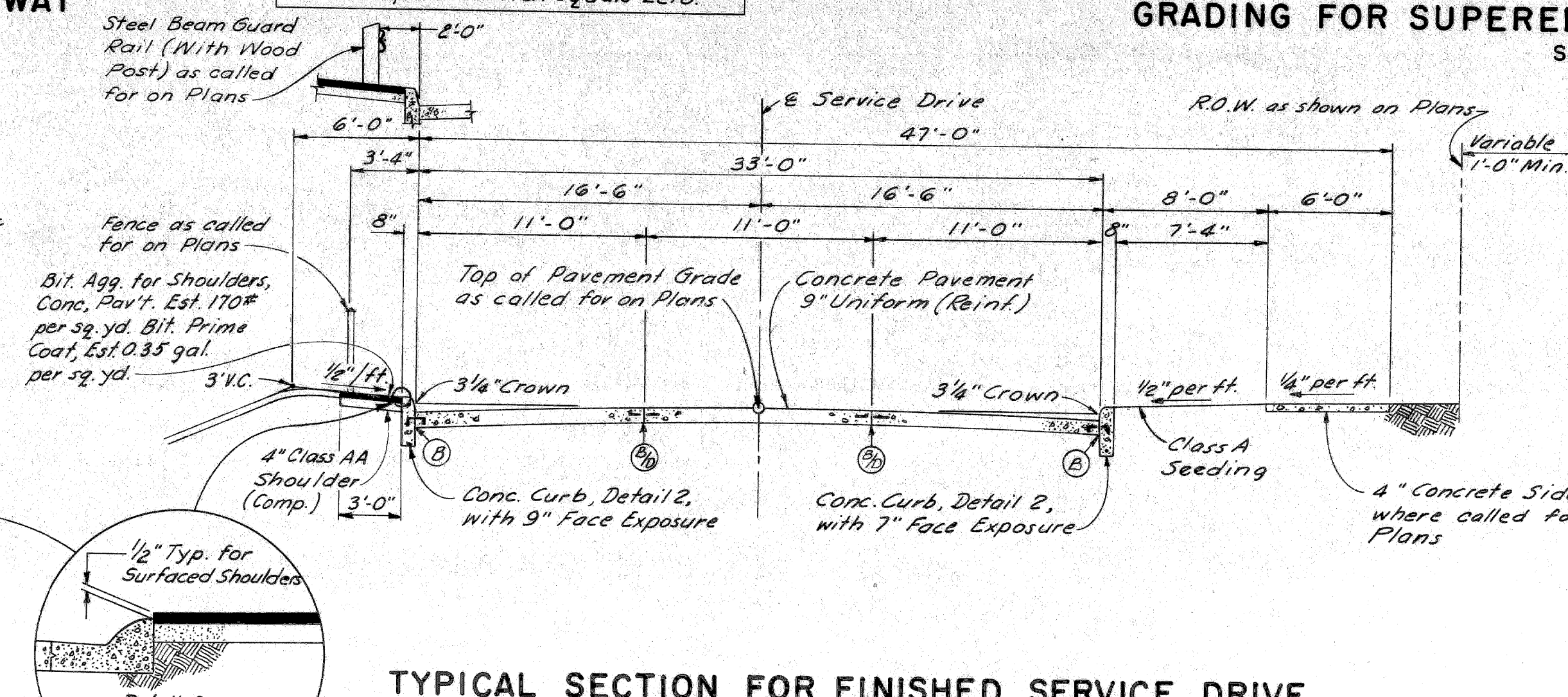


GRADING FOR SUPERELEVATED* 24' TURNING ROADWAY
SCALE: 1"=5'

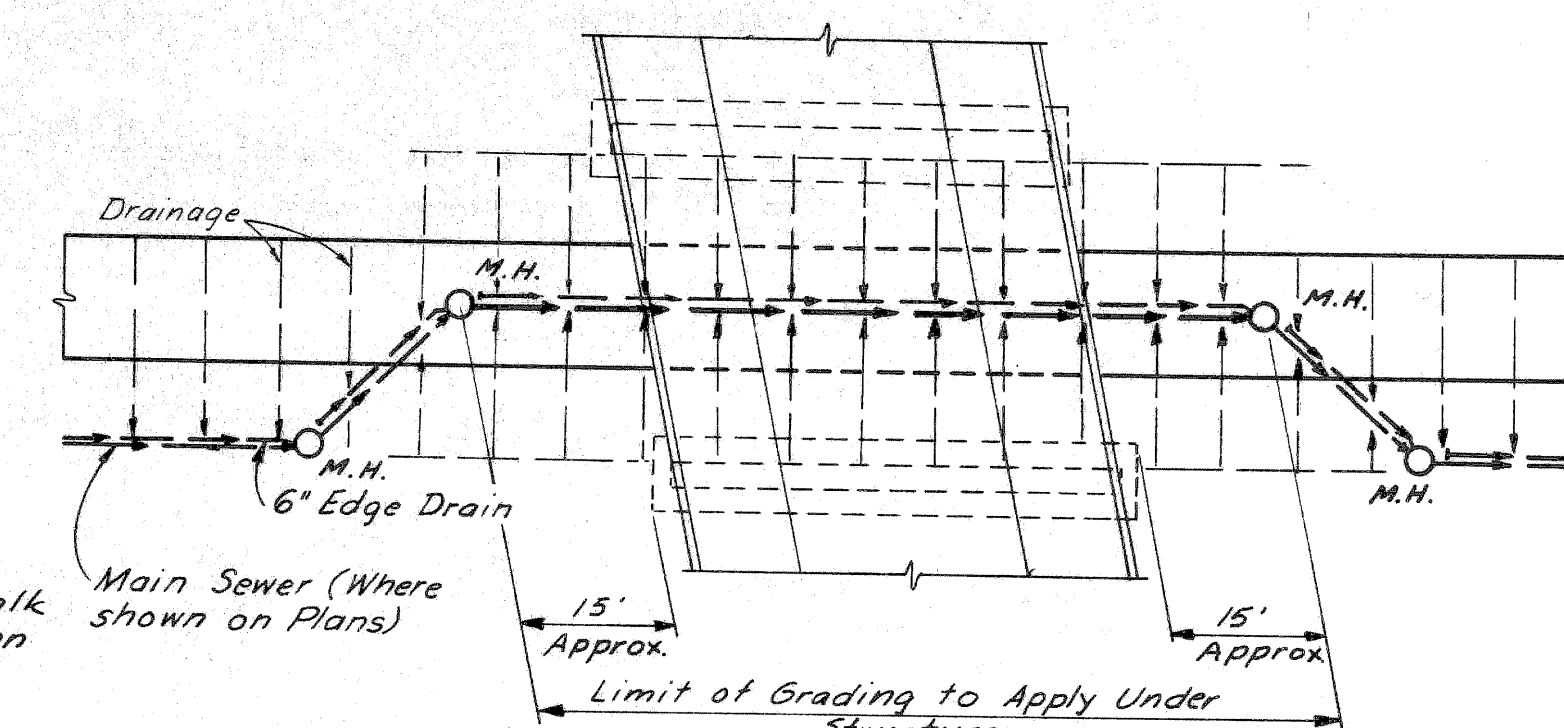
Note:
This Section is also normal Grading Section when Rate of Superlevation equals zero.



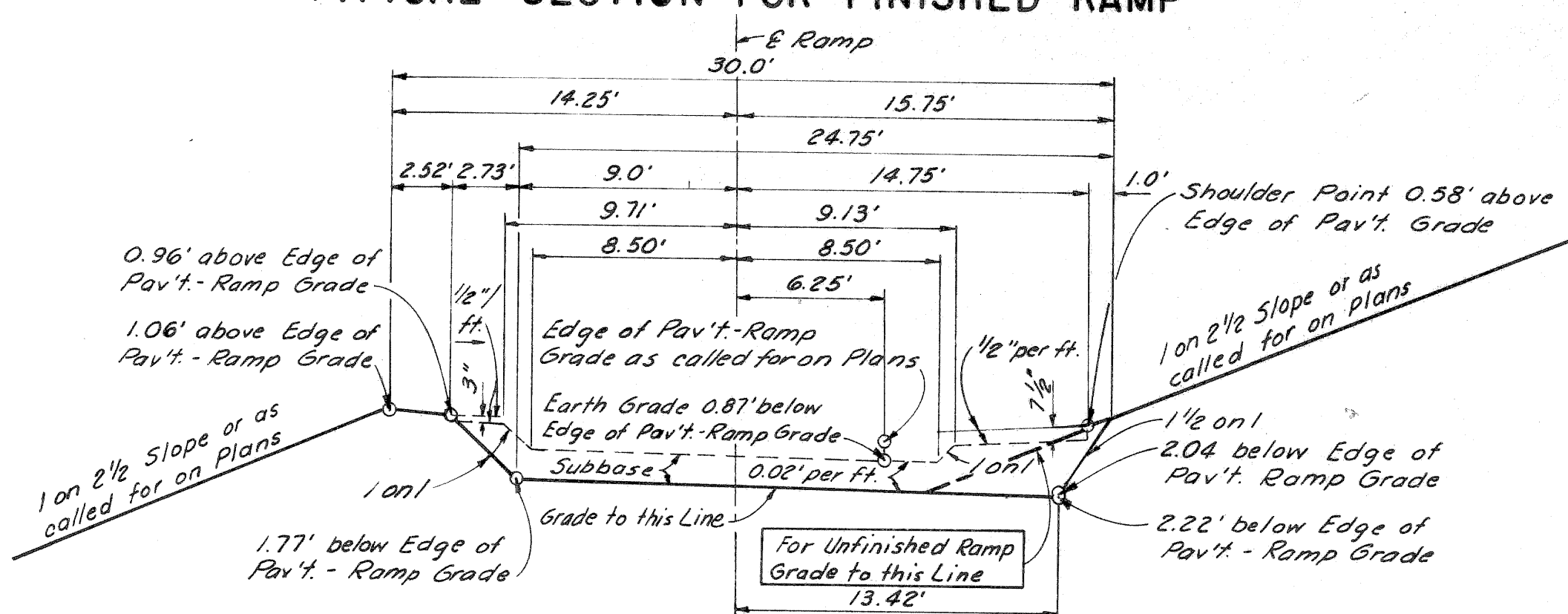
TYPICAL SECTION FOR FINISHED RAMP



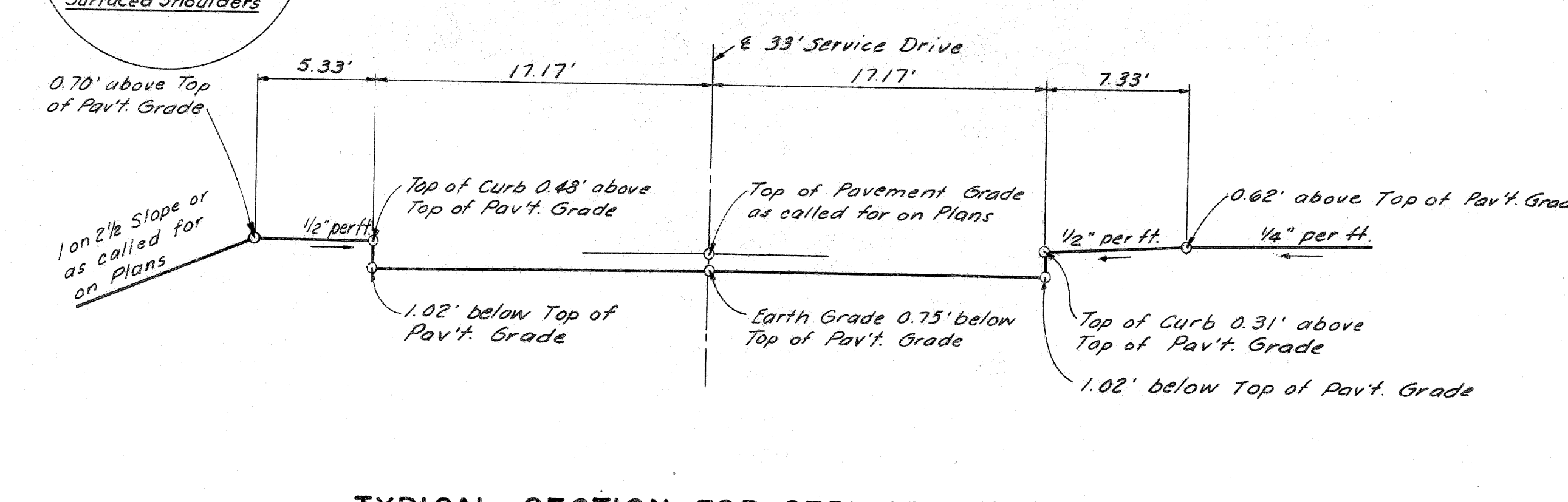
TYPICAL SECTION FOR FINISHED SERVICE DRIVE



SUBBASE DRAINAGE PLAN FOR 24' & 12'-6" TURNING ROADWAY UNDER STRUCTURES
NO SCALE



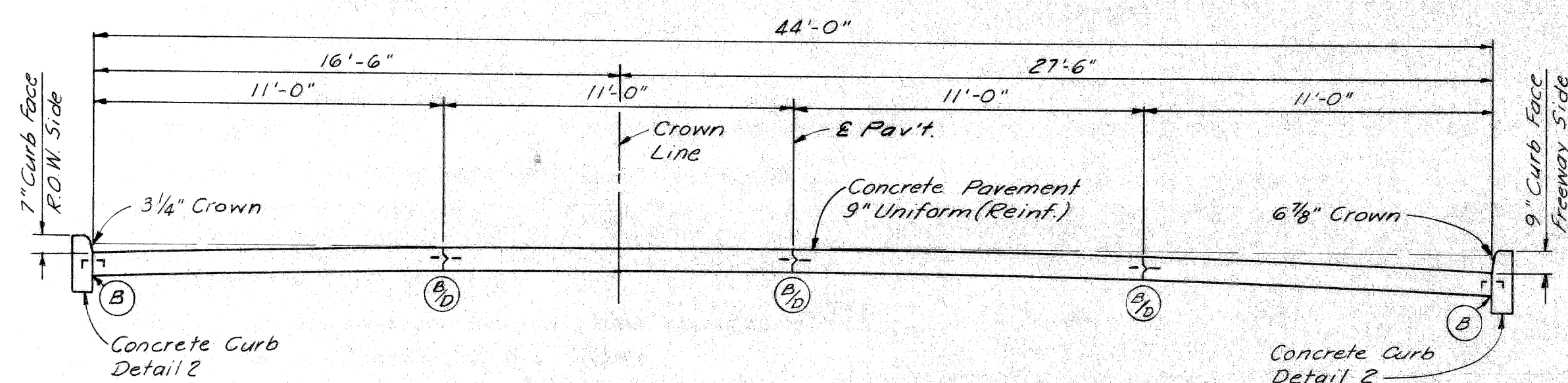
TYPICAL SECTION FOR RAMP GRADING
SCALE: 1"=6'



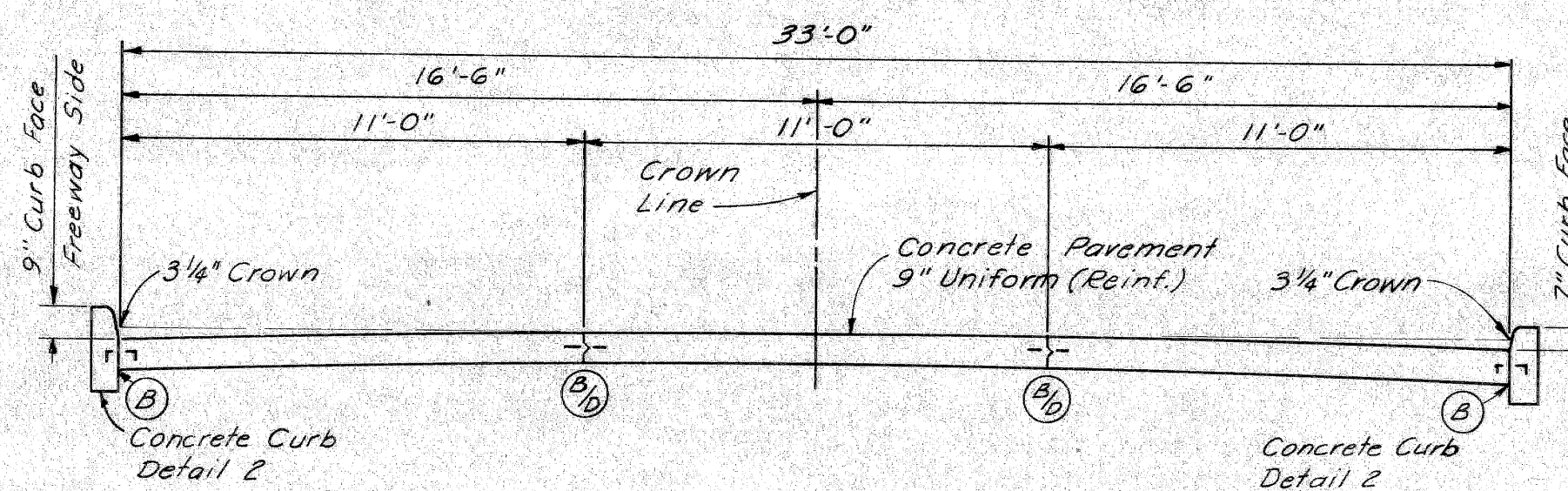
TYPICAL SECTION FOR SERVICE DRIVE GRADING

TYPICAL CROSS-SECTIONS

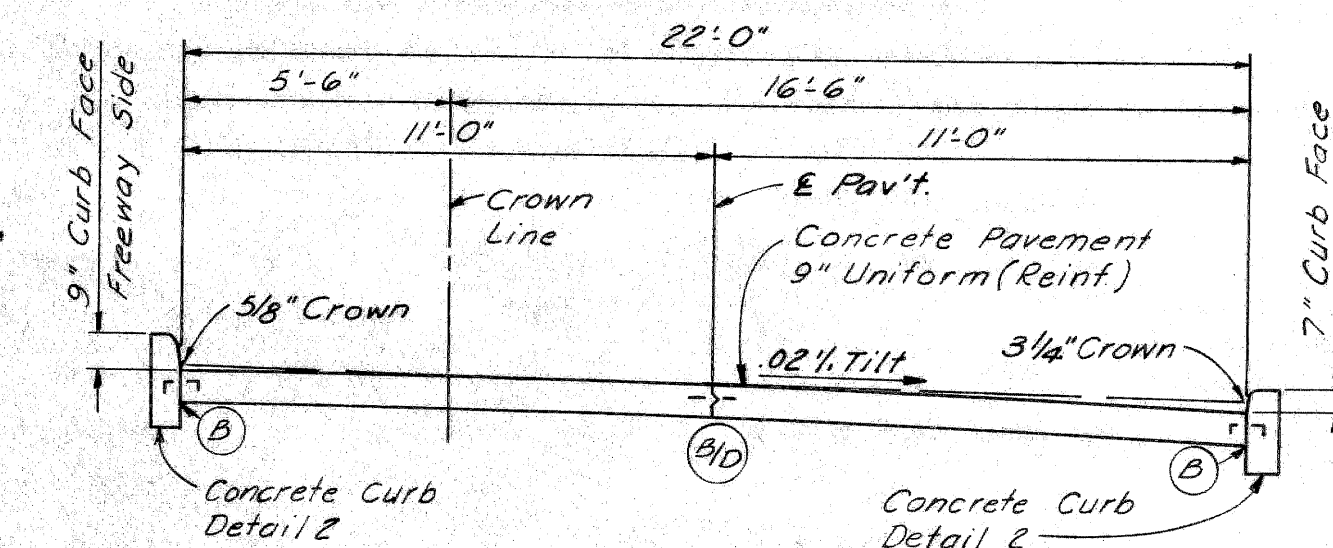
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
	82195	Wayne	Detroit	6	
B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS



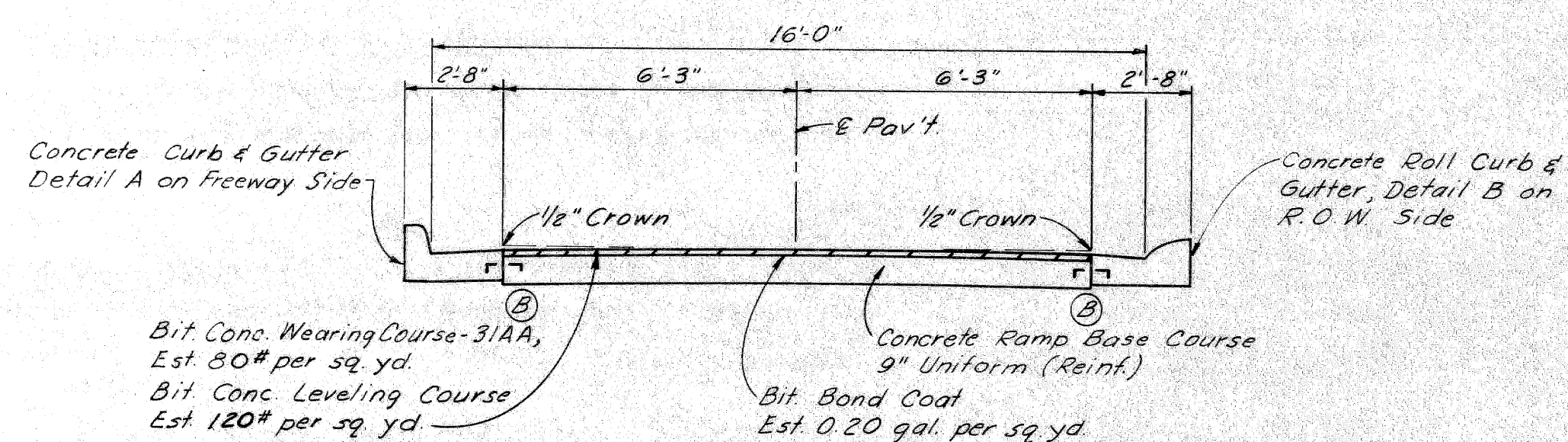
TYPICAL CROSS-SECTION SHOWING CONCRETE PAVEMENT 9" UNIFORM (REINFORCED) TO APPLY ON 44' SERVICE DRIVE



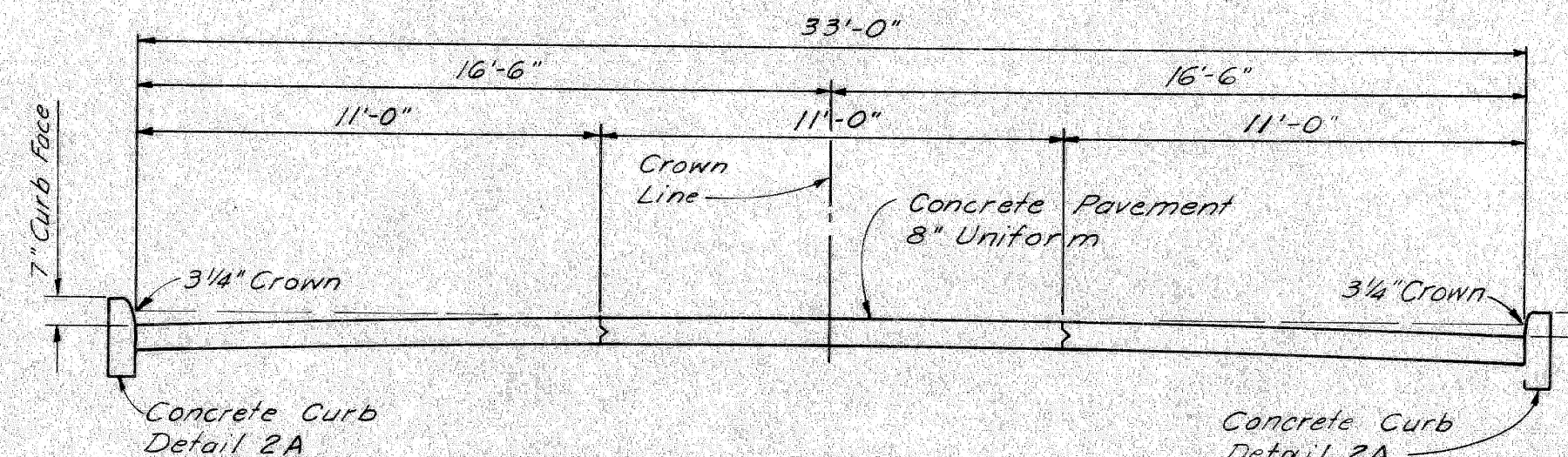
TYPICAL CROSS-SECTION SHOWING CONCRETE PAVEMENT 9" UNIFORM (REINFORCED) TO APPLY ON 33' SERVICE DRIVE



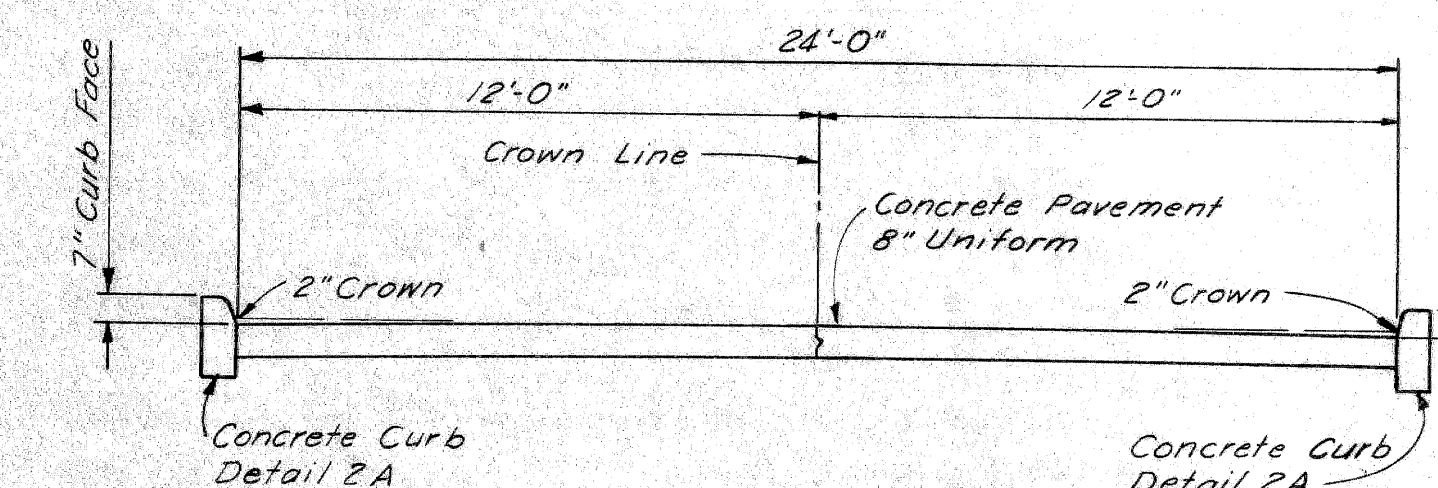
TYPICAL CROSS-SECTION SHOWING CONCRETE PAVEMENT 9" UNIFORM (REINFORCED) TO APPLY ON 22' SERVICE DRIVE



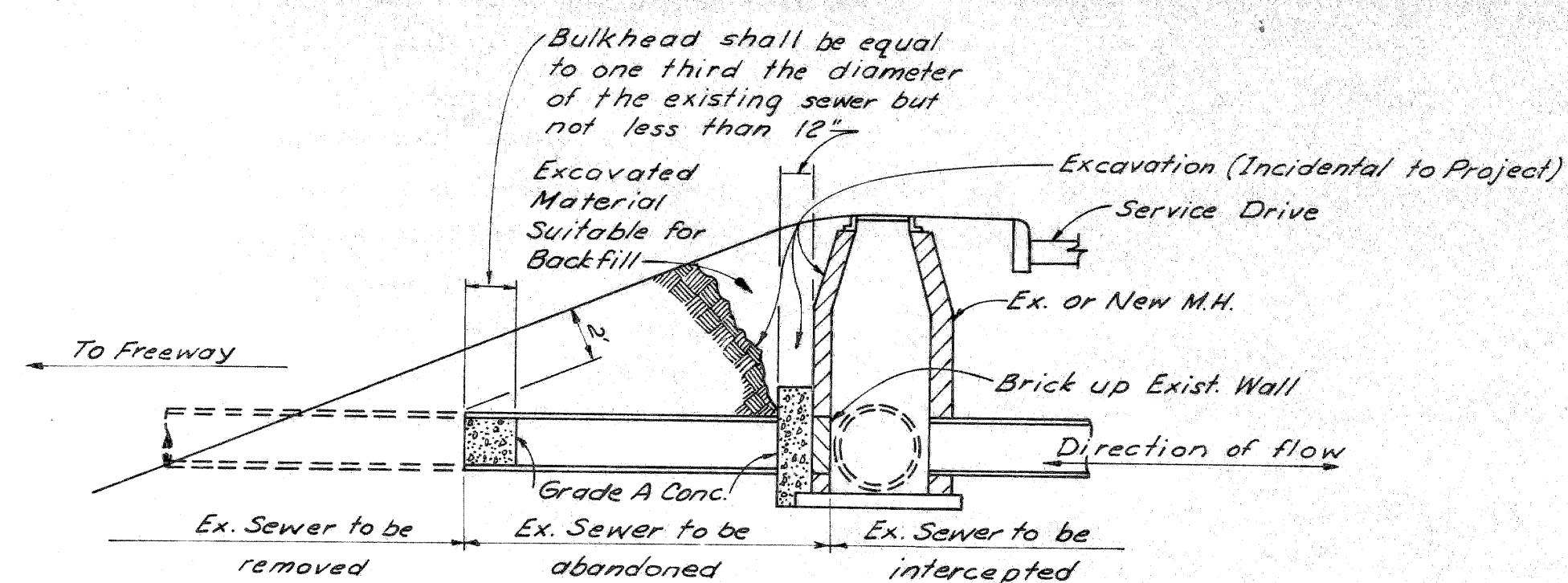
TYPICAL CROSS-SECTION SHOWING CONCRETE RAMP BASE COURSE 9" UNIFORM (REINFORCED) WITH BITUMINOUS CONCRETE PAVEMENT



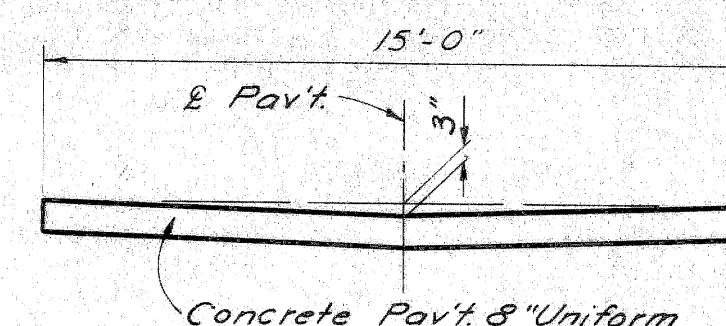
TYPICAL CROSS-SECTION SHOWING CONCRETE PAVEMENT 8" UNIFORM TO APPLY ON 33' DETOUR ROADWAYS



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



SKETCH SHOWING METHOD FOR BULKHEADING SEVERED SEWERS



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

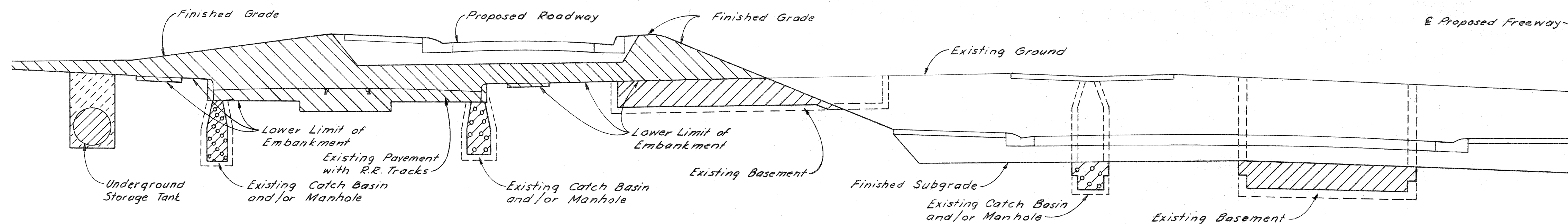
JOINT LEGEND

- B Longitudinal Bulkhead Construction Joint, according to M.S.H.D. Std. Plan E-4-A-33H, Detail 2
- D Longitudinal Lane Tie Joint with Tie Bars, according to M.S.H.D. Std. Plan E-4-A-33H, Detail 1
- B/D Optional B or D

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

EARTHWORK LEGEND

- Embankment
 - Backfill:
 - Sand-Gravel Material
 - Select Yellow Clay Backfill
 - Selected Excavated Material
- 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 and concrete floor slabs.



TYPICAL CROSS-SECTION OF EMBANKMENT AND BACKFILL

PAVEMENT SECTIONS & SPECIAL DETAILS

FILE NO.	82195 B C13	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
PROJECT					

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	12		
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	12		

LEGEND

- Removing Curb -----
- Removing Sidewalk -----
- Replacing Sidewalk -----
- Removing Pavement -----
- Removing Old Pav't (Patching) and Pavement Replacement -----
- Proposed Pavement -----
- Proposed Sidewalk -----
- Existing Foundation Wall -----
- Existing Concrete Slab -----
- Existing Basement -----

QUANTITIES - Central Section 82195 D

Removing Trees 8"-12"	2	Each
Removing Trees 13"-24"	1	Each
Abandoning Manholes (Including Backfill)	3	Each
Abandoning Catch Basins (Including Backfill)	10	Each
Removing D.S.R. Track Strip	1,143	Sq. Yds.
Removing Sidewalk	2,476	Sq. Yds.
Removing Pavement	869	Lin. Ft.
Removing Masonry & Concrete Structures	13,859	Sq. Yds.
Replacing Pavement	18	Cu. Yds.
Replacing Sidewalk, Temp. 2" Conc.	800	Sq. Yds.
Replacing Sidewalk, 4" Conc.	1,700	Sq. Ft.
Replacing Sidewalk, 7" Conc.	210	Sq. Ft.
Replacing Catch Basins (Including Backfill)	507	Sq. Ft.
Replacing Curb, Detail 2A	1	Each
Patching Pavement with Bit. Material	12	Lin. Ft.
Removing Building (2339-41 Grd. River)	17	Tons
Aggregate Base (2.5M)	1	Each
Removing Old Pavement (Patching)	44	Cu. Yds.
Removing Old Pavement (Patching)	1021	Sq. Yds.

* Includes removal of Temporary Pavement

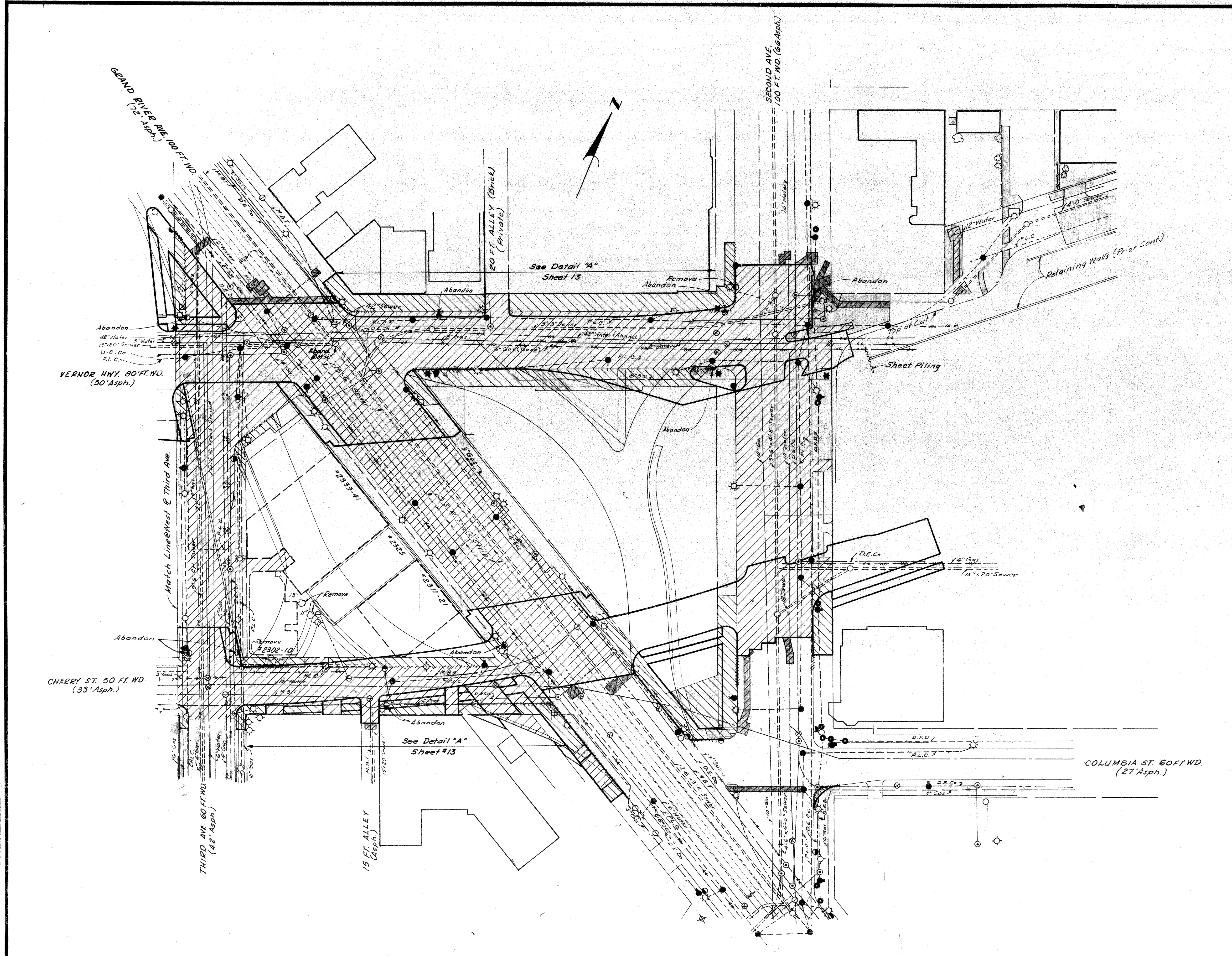
EARTHWORK: For Basements

Select Yellow Clay Backfill, from Sheet #12 (Compacted in Place) ----- 16 Cu. Yds.

Notes:

1. For Typical Cross Sections of Embankment and Backfill See Sh. #6.
2. Existing 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 less than 8" diameter is incidental to the Contract.
4. Removing Bituminous Surface not shown on this sheet.
5. Certain utility alterations are required within the limits of removal of entire pavement areas prior to their removal. These areas are required to be open for local traffic at all times. Therefore, quantities have been included for Removing Old Pavement (Patching), Pavement Replacement, and Patching Pavement with Bituminous Material.

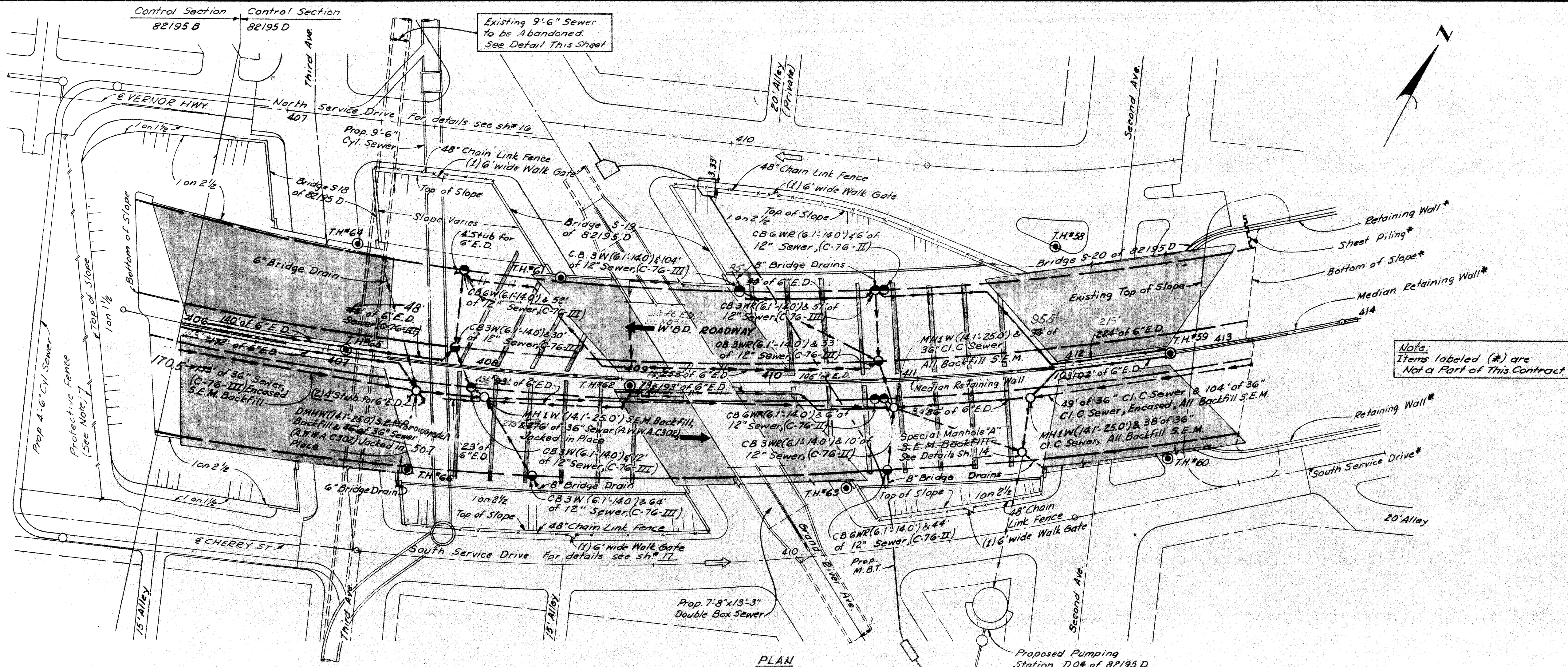
**REMOVAL ITEMS
THIRD AVE. TO SECOND AVE.**



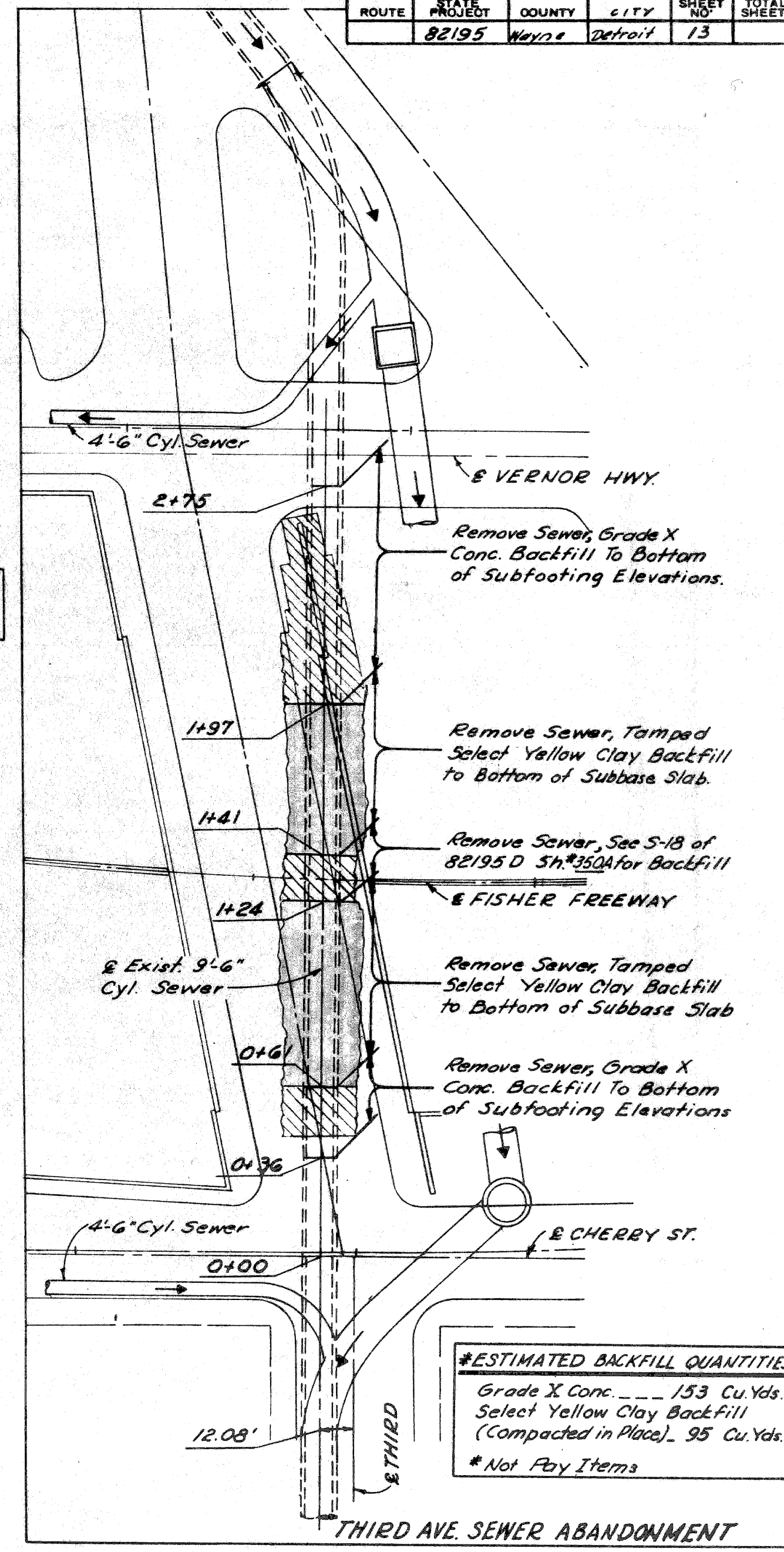
G.D. MILZ 4.65
 F.A. CALTABIANO 4.65
 G.D. MILZ 4.65
 Allan E. Payne 4.65

FILED BY
 DATE
 OFFICE
 STATE OF MICHIGAN
 DEPT. OF HIGHWAYS

B.P.D. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MI	82195		13	
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	WV	Wayne	Detroit	13	



Note: Items labeled (*) are Not a Part of This Contract.



ESTIMATED BACKFILL QUANTITIES
 Grade X Conc. --- 153 Cu Yds.
 Select Yellow Clay Backfill (Compacted in Place) 95 Cu Yds.
 * Not Pay Items

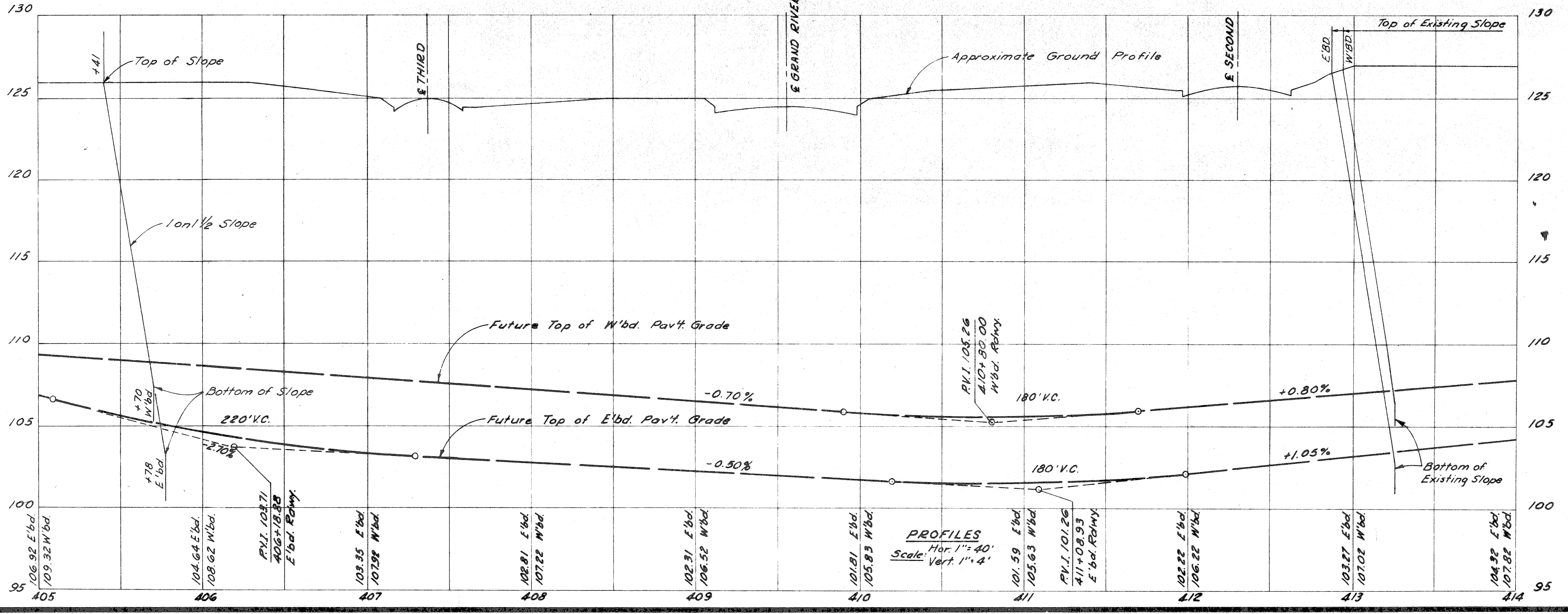
Note: For Index of Soil Borings (O) see sh#350-A For Alignment see sh# 8

Fencing This Sheet
 48\"/>

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.

Subbase Slabs or Struts
 Bridge or Wall Footing

FISHER FREEWAY ITEMS
 STA.405+41 to STA.413+25



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

DESIGNED BY	G.D. MILLZ	4-65
DRAWN BY	E.A. CANTABIANO	4-65
CHECKED BY	C. HOPKINS	4-65
APPROVED	[Signature]	4-65

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

G.D. MILZ
 P.A. CALTA BIANO
 M.F. KODAN
 M. E. J. JAGEL

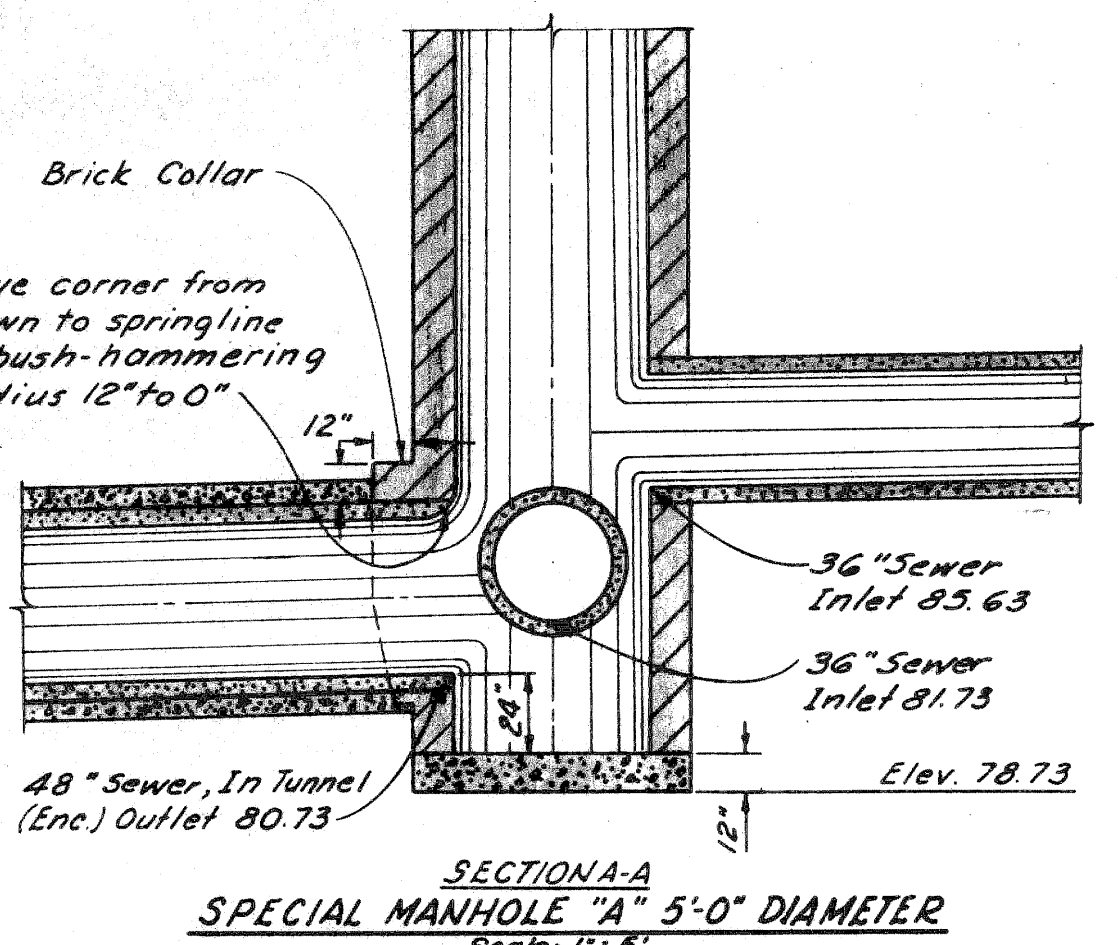
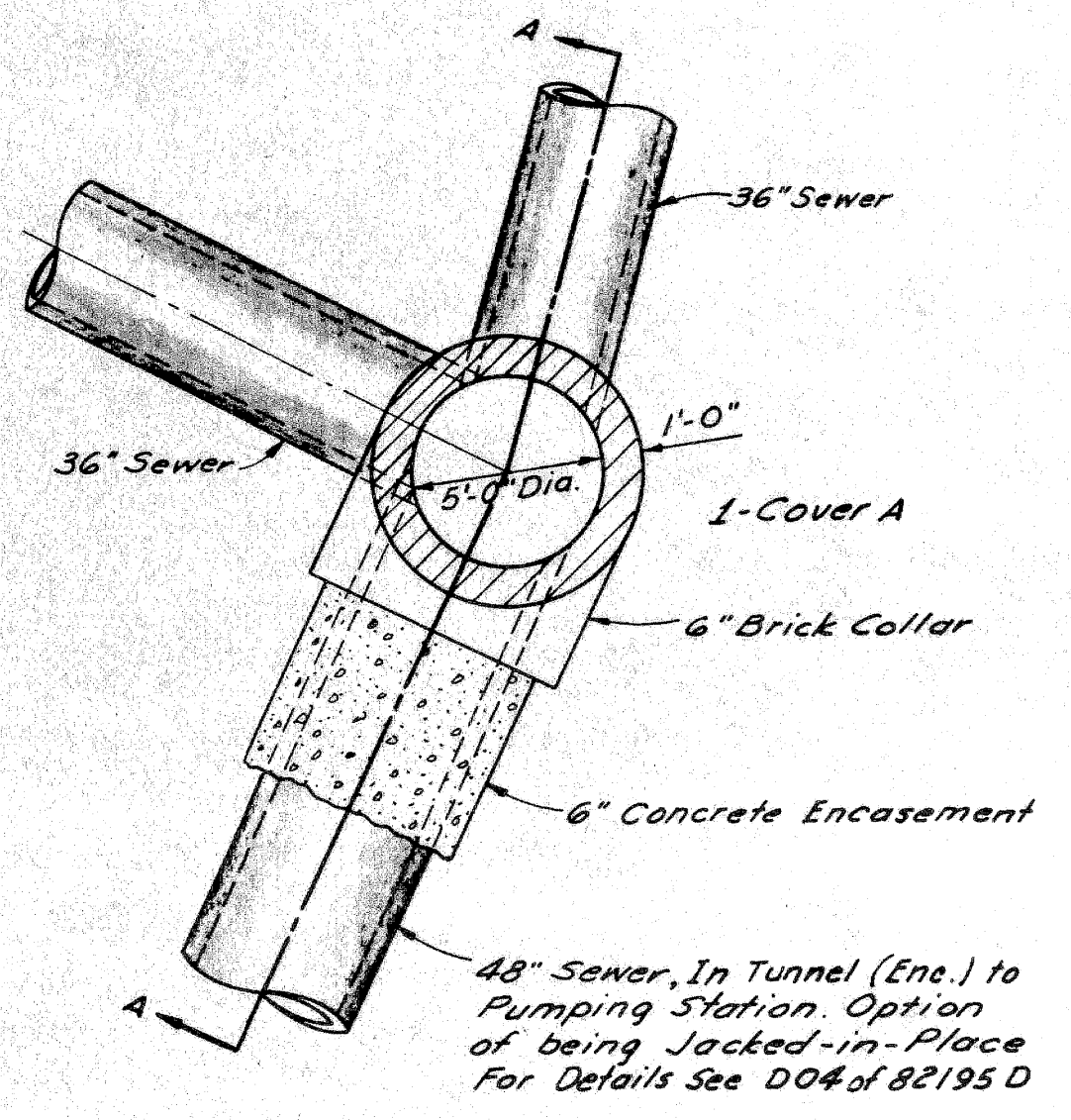
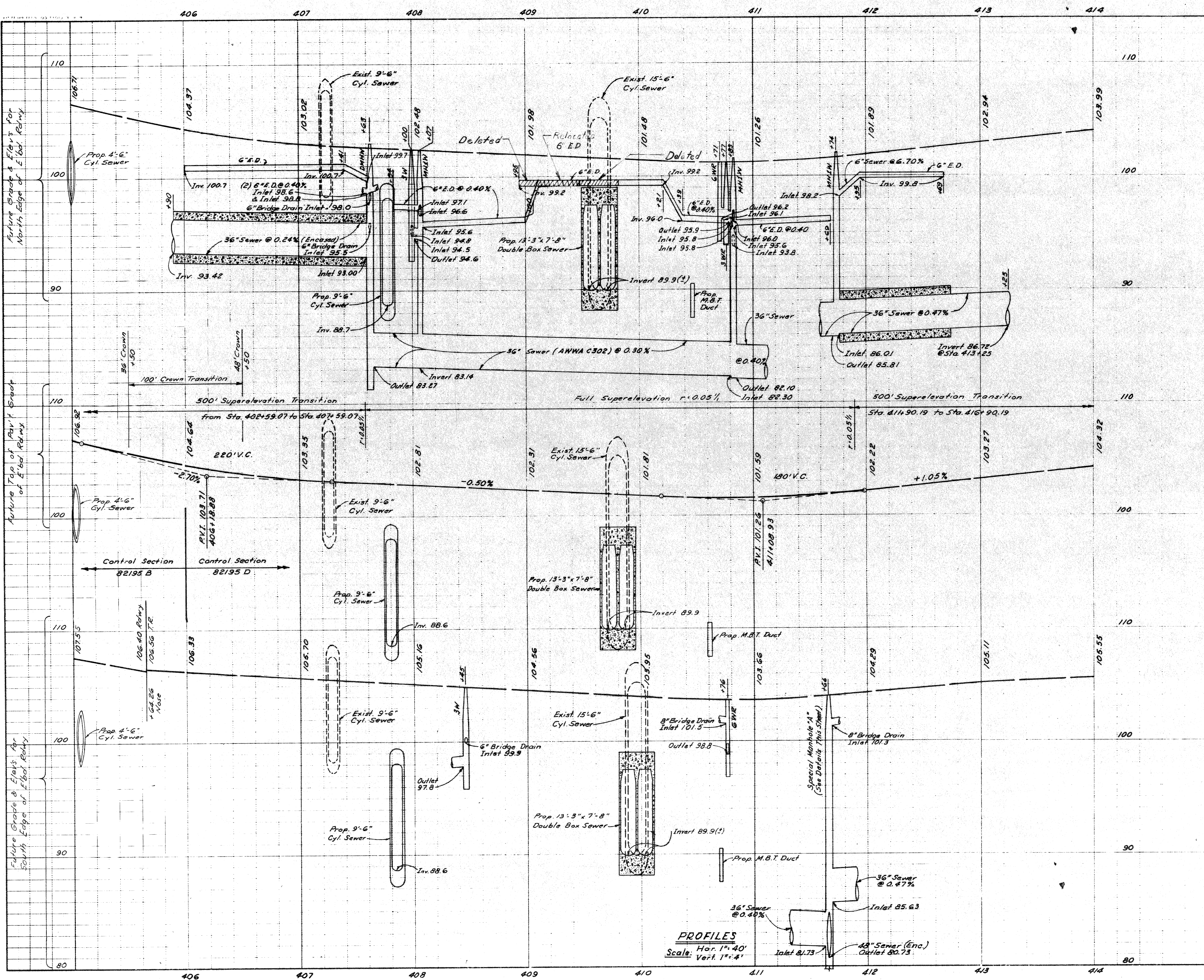
OPERATION
 SURVEYED
 PLAN CHECKED
 PROFILE PLOTTED
 PRELIMINARY GRADE
 FEDERAL INSPECTION

OPERATION
 PRELIMINARY P.D.W. CHECKED
 FINAL DESIGN CHECKED
 TRACED
 FINAL P.D.W. CHECK
 QUANTITIES CHECKED

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

STATE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
MI	WAYNE	DETROIT	14	14

EARTHWORK	Control Section	
	82195 B	82195 D
Earth Excavation	2,063	51,718
Losses		
Embankment + 25%		
This Sheet #14 - 26 Cu.Yds.		
North Service Drive		
Sheet #16 - 198 Cu.Yds.		
South Service Drive		
Sheet #17 - 637 Cu.Yds.		
Select Yellow Clay		
Removal		
Sheet #12 - 16 Cu.Yds.		
Total Losses	877	877
Waste	2,063	50,841
Sub-base		182



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

FISHER FREEWAY
 E'BD. ROADWAY PROFILES
 STA. 405+41 TO STA. 413+25

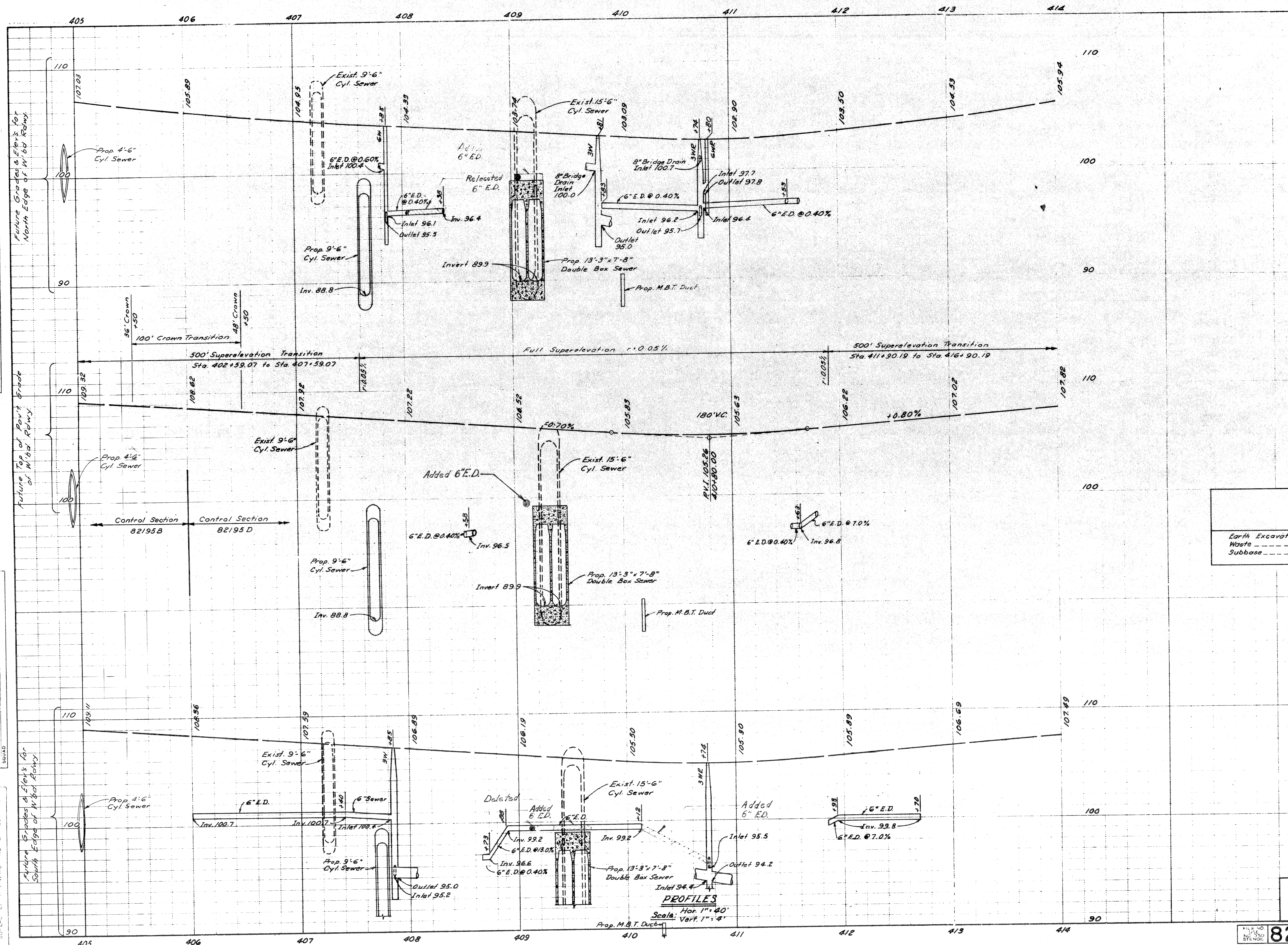
PROJECT NO.	82195	CITY	Wayne
SHEET NO.	15	CITY	Detroit

OPERATION BY: G.P. MILZ, F.A. CALTABIANO, M.E. ROBEAN, Allen S. Fungel

OPERATION BY: [Blank]

OPERATION BY: [Blank]

OPERATION BY: [Blank]



	Control Section	
	82195 B	82195 D
Earth Excavation	5,264	56,909
Waste	5,264	56,909
Subbase	155	2,466

FISHER FREEWAY
W.B.D. ROADWAY PROFILES
STA. 405+41 TO STA. 413+25

82195B C13

G. D. MILZ
 F. A. CALTABIANO
 M. F. KOBAN
 ALAN S. ROY
 4-65
 4-65
 4-65
 4-65

PREPARED BY
 CHECKED BY
 DATE

OPERATIONS
 SURVEYING
 CIVIL ENGINEERING
 1000 W. W. CHURCH
 DETROIT, MICH. 48226
 PHONE 462-1100
 TELETYPE 462-1100
 CABLE "S. O. S."
 REG. NO. 10000
 LICENSE NO. 10000

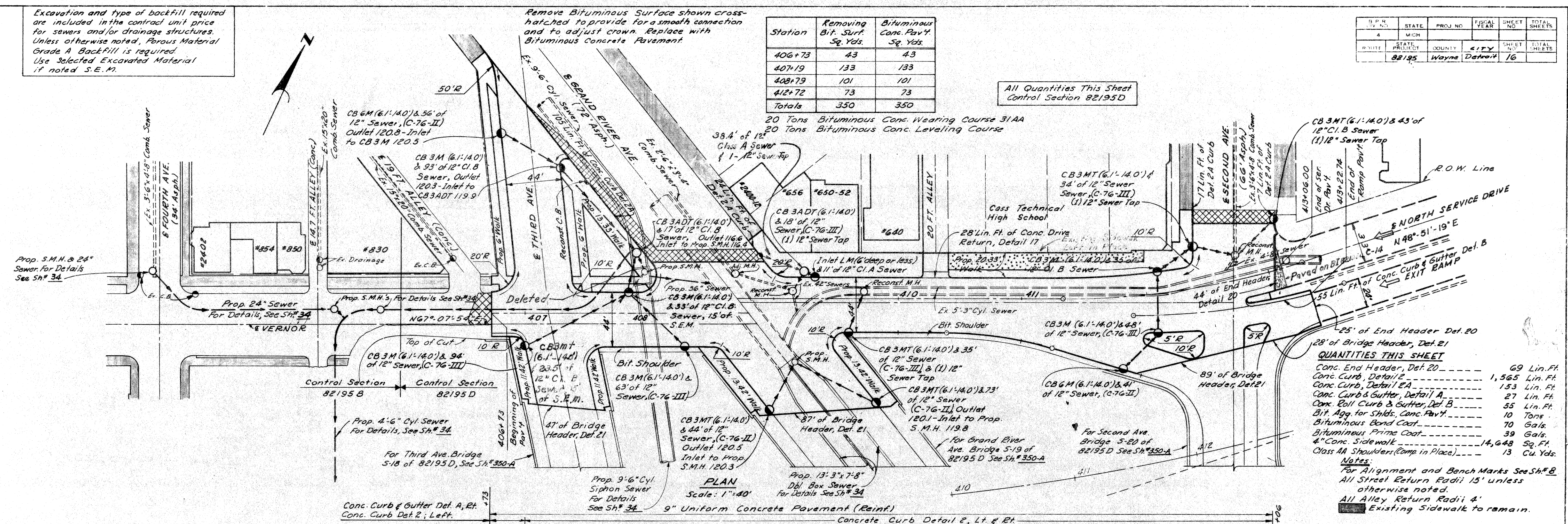
Excavation and type of backfill required are included in the contract unit price for sewers and/or drainage structures. Unless otherwise noted, Porous Material Grade A Backfill is required. Use Selected Excavated Material if noted S.E.M.

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

Station	Removing Bit. Surf. Sq. Yds.	Bituminous Conc. Pav't. Sq. Yds.
406+73	43	43
407+19	133	133
408+79	101	101
412+72	73	73
Totals	350	350

All Quantities This Sheet Control Section 82195D

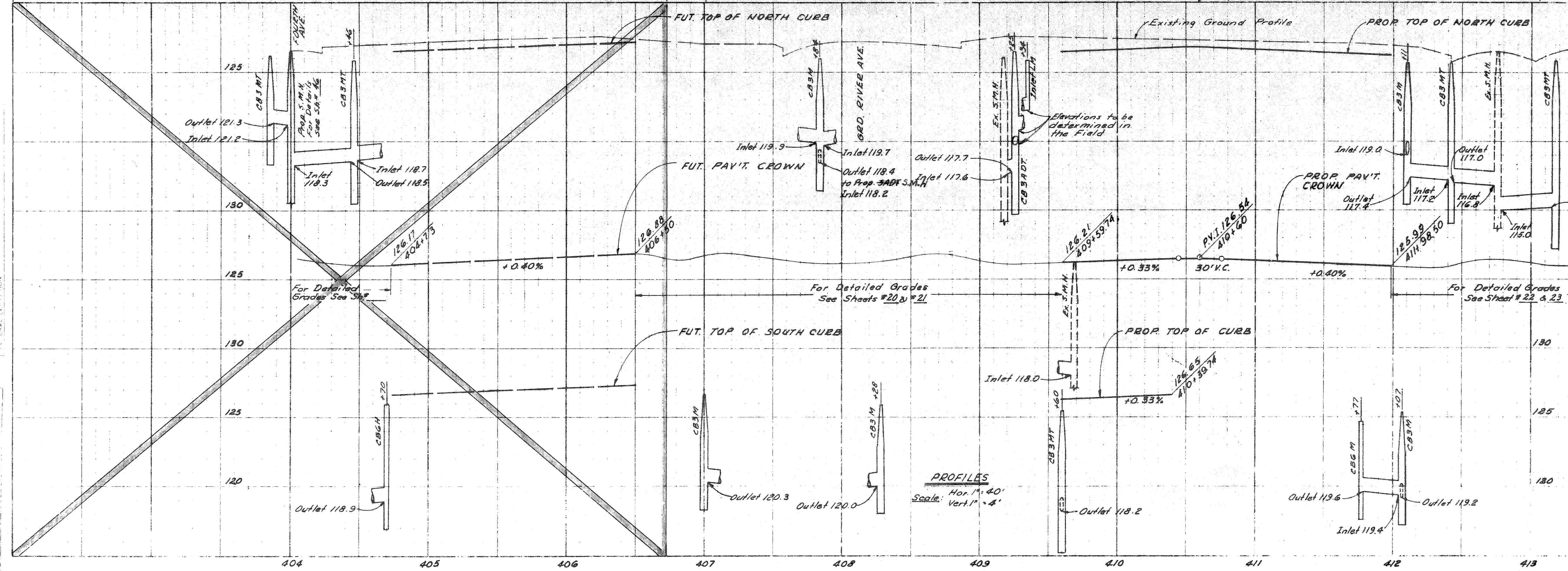
D.P.R. No.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
82195	MICH.			16	



QUANTITIES THIS SHEET

Conc. End Header, Det. 20	69 Lin. Ft.
Conc. Curb, Detail 2	1,565 Lin. Ft.
Conc. Curb, Detail 2A	153 Lin. Ft.
Conc. Curb & Gutter, Detail A	27 Lin. Ft.
Conc. Coll Curb & Gutter, Det. B	55 Lin. Ft.
Bit. Agg. for Shlds. Conc. Pav't.	10 Tons
Bituminous Bond Coat	70 Gals.
Bituminous Prime Coat	39 Gals.
4" Conc. Sidewalk	14,648 Sq. Ft.
Class AA Shoulders (Comp. in Place)	13 Cu. Yds.

NOTES:
 For Alignment and Bench Marks See Sh. # B
 All Street Return Radii 15' Unless otherwise noted.
 All Alley Return Radii 4'
 Existing Sidewalk to remain.



EARTHWORK

	Cu. Yds.
Earth Excavation	1,400
Waste	1,400
Excess Excavation From Profile Sh. # 1	198
POROUS MAT'L BED. 4" (3" Bedding for Sen. Dr's.)	428

PLAN AND PROFILE NORTH SERVICE DRIVE

4-65
4-65
4-65
4-65

OPERATION BY DATE
 PRELIMINARY E.U.W. CHECKED
 FINAL DESIGN CHECKED
 TRACED
 FINAL R.O.W. CHECKED
 QUANTITIES CHECKED
 S.M.A.D.

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

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

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.

QUANTITIES THIS SHEET

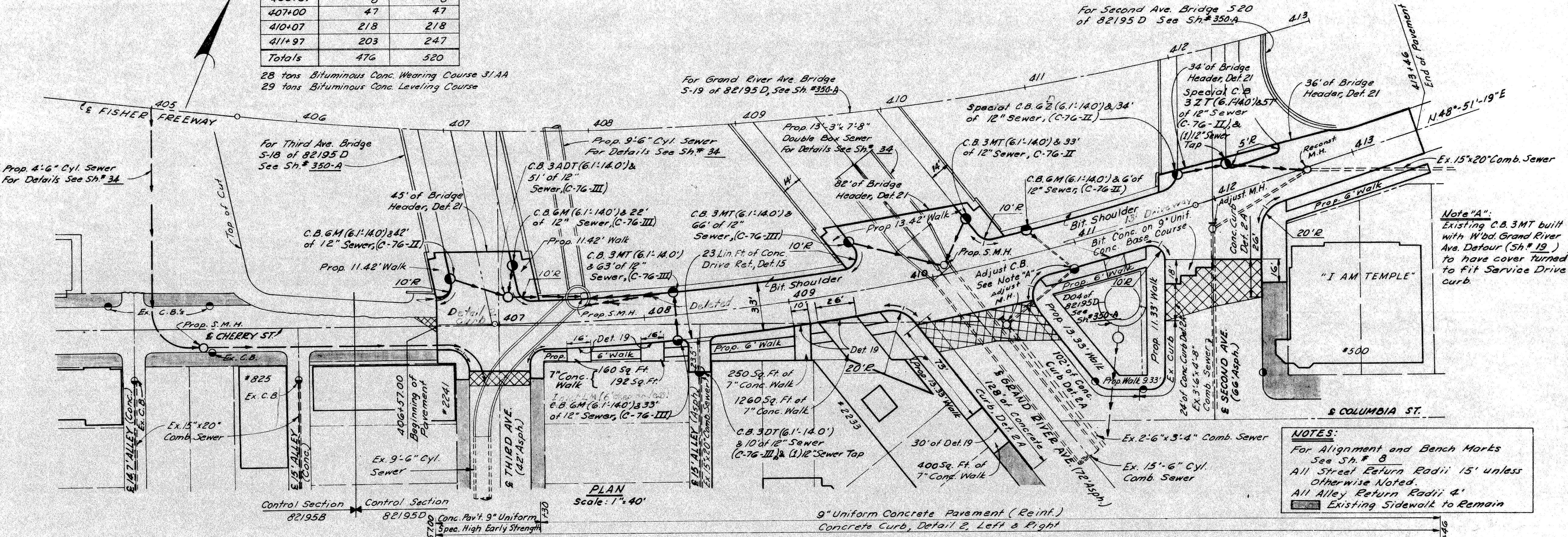
Conc. Curb, Detail 2	1,187	Lin. Ft.
Conc. Curb, Detail 2A	269	Lin. Ft.
Conc. Curb & Gutter, Detail A	13	Lin. Ft.
Class AA Shoulders (Comp. in Place)	12	Cu Yds.
Bit. Agg. for Shldr., Conc. Pav't	10	Tons
Bit. Bond Coat	104	Gals.
Bit. Prime Coat	38	Gals.
4" Conc. Sidewalk	8,530	Sq. Ft.
7" Conc. Sidewalk	2,262	Sq. Ft.

All Quantities This Sheet Control Section 82195D

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

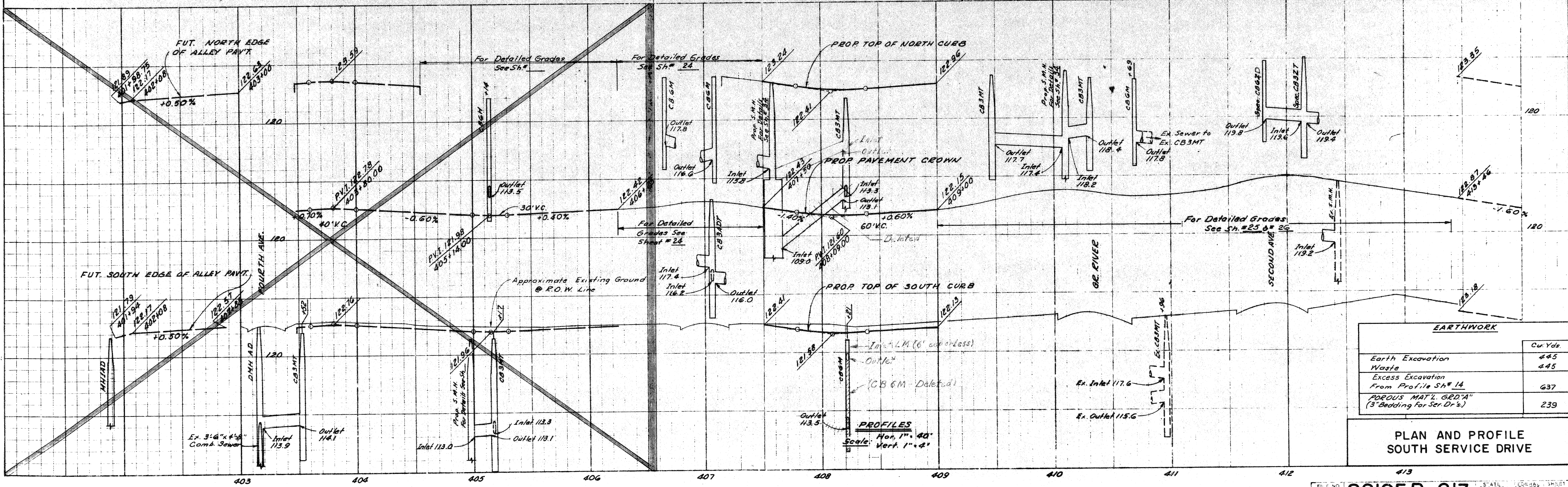
Station	Removing Bit. Surf. Sq. Yds.	Bituminous Conc. Pav't. Sq. Yds.
406+57	8	8
407+00	47	47
410+07	218	218
411+97	203	247
Totals	476	520

28 tons Bituminous Conc. Wearing Course 31.4A
 29 tons Bituminous Conc. Leveling Course



NOTES:
 For Alignment and Bench Marks See Sh. # 8
 All Street Return Radii 15' unless Otherwise Noted.
 All Alley Return Radii 4'
 Existing Sidewalk to Remain

STATE	PROJECT	SHEET	NO.
MICHIGAN	82195	17	17
CITY	WAYNE		
PROJECT	82195	WAYNE	DETROIT



EARTHWORK

Description	Cu. Yds.
Earth Excavation	445
Waste	445
Excess Excavation From Profile Sh. # 14	637
POROUS MAT'L GBD "A" (3" Bedding for Ser. Dr.'s)	239

PLAN AND PROFILE SOUTH SERVICE DRIVE

G.D. MILZ 1-65
 F.A. CASTABIANO 4-65
 C. MORRIS 4-65
 Allan E. Payne 4-65

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

OPERATION	DATE
SURVEY PLOTTED	
PLAN CHECKED	
PROFILE PLOTTED	
PRELIMINARY GRADE	
GRADE INSPECTION	
FEDERAL INSPECTION	

S.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	18	

Station	Removing Bit Surf. Sq. Yds.	Bit Concrete Pavement Sq. Yds.
E'bd Grand River Detour		
24+10	19	19
24+70	36	36
27+66	26	26
27+90	5	5
28+82	92	92
Totals	178	178

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.

QUANTITIES THIS SHEET Control Section 82195D
 Conc. Curb, Detail 2A.....990 Lin. Ft.
 Bituminous Bond Coat.....36 Gals.
 Temp. Conc. Sidewalk (2").....2429 Sq. Ft.
 Temp. Steel Beam Guard Rail.....332 Lin. Ft.
 Temp. Curved Steel Beam Guard Rail.....875 Lin. Ft.

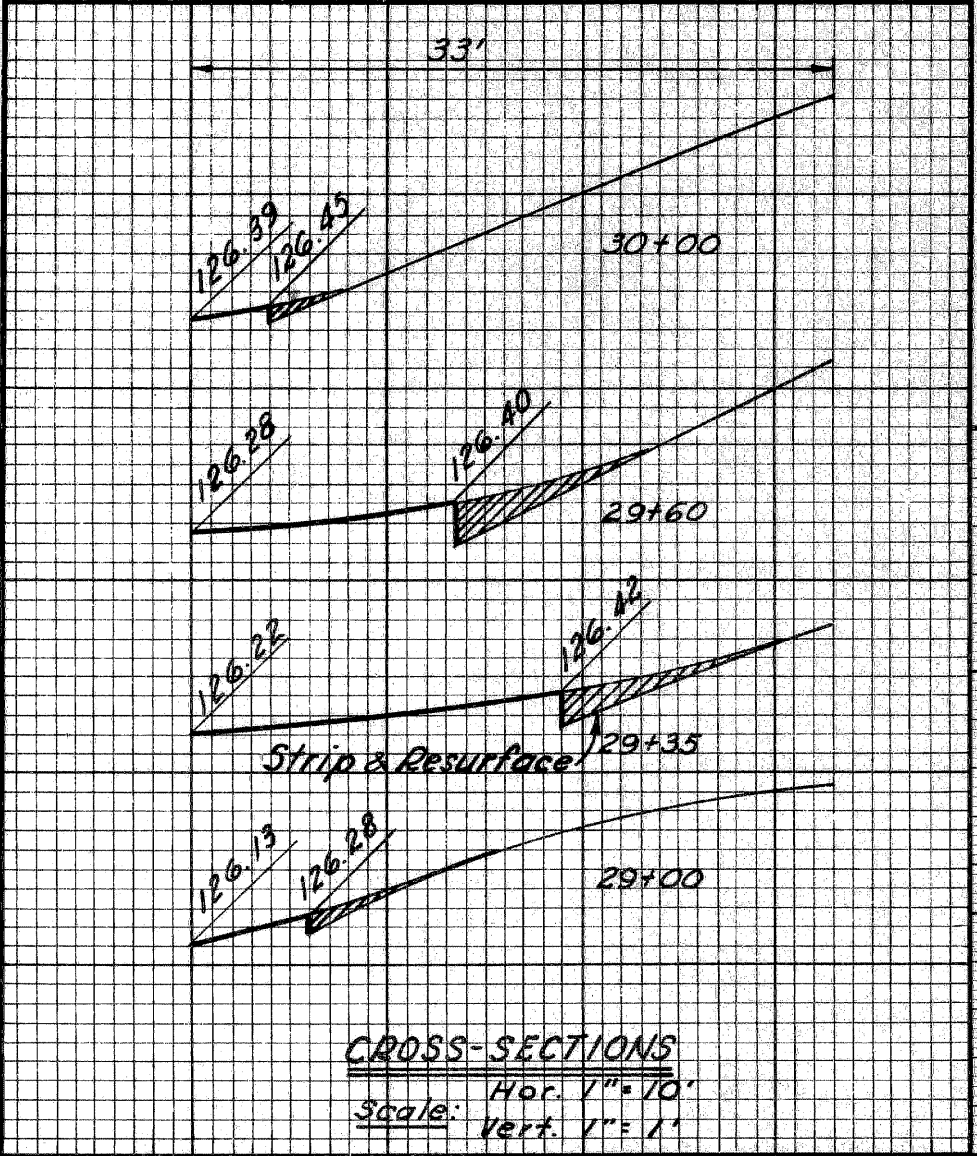
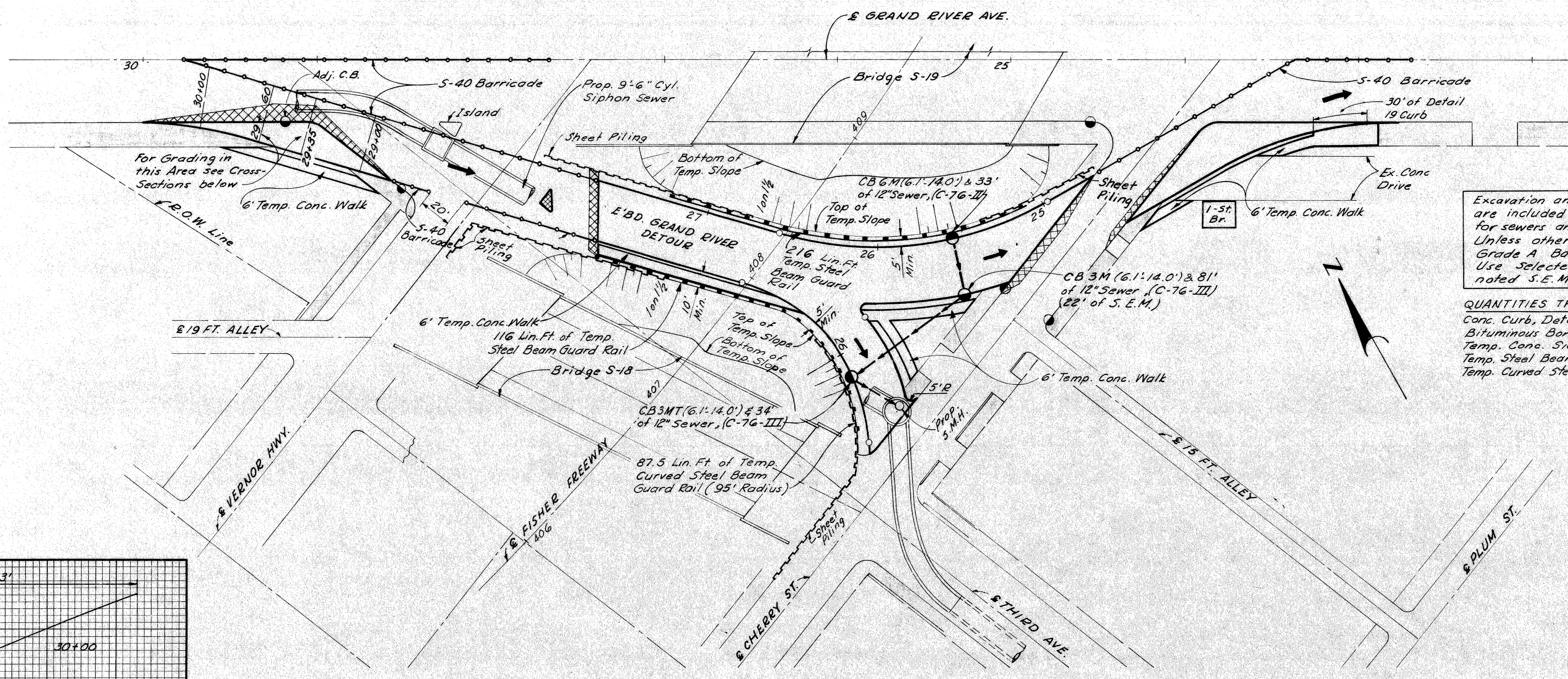
10.0 tons Bit. Conc. Wearing Course-3/AA
 10.0 tons Bit. Conc. Leveling Course

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

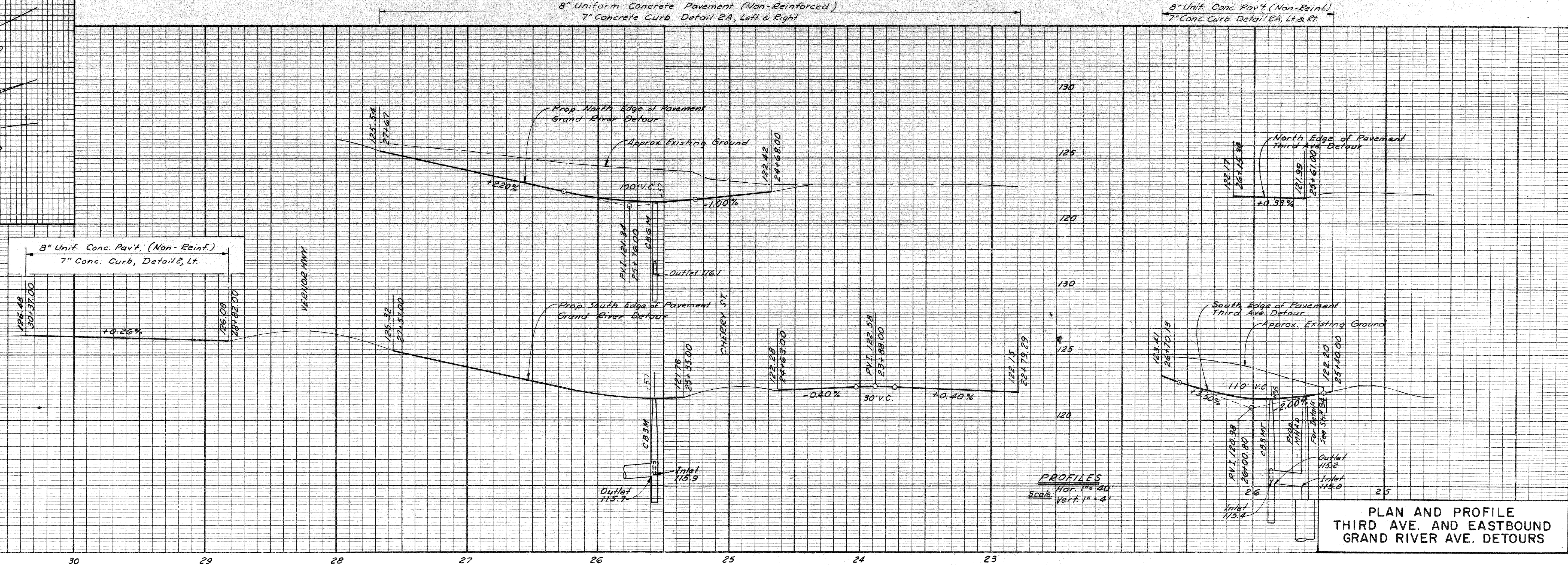
Notes:
 Station shown in brackets, thus () refer to the Existing Street Survey Stationing.
 For Alignment Details See Sh# 9
 Existing Sidewalks to remain
 Existing Drainage

All Quantities This Sheet Control Section 82195 D

Barricades
 For Barricade Quantities See Sh# 3
 For Barricade Lighting see P.L.C. dwgs.



CROSS-SECTIONS
 Hor. 1" = 10'
 Scale: Vert. 1" = 1'



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

PLAN AND PROFILE
 THIRD AVE. AND EASTBOUND
 GRAND RIVER AVE. DETOURS

G.D. MILL
 P.A. CALABRANO
 M.F. COBBAN
 J. J. J. J.

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

DATE	DESCRIPTION
	PLAN CHECKED
	PROFILE CHECKED
	PRELIMINARY GRADE
	GRADE INSPECTION
	FEDERAL INSPECTION

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			19	
ROUTE	COUNTY	CITY	SHEET NO.	TOTAL SHEETS	
82/95	Wayne	Detroit	19		

C.B.M. #9 Elev. 126.07 Arrow on Hydrant
 N.E. Corner of Columbia and Second Ave.
 C.B.M. #10 Elev. 125.52 Arrow on Hydrant
 S. Side of Columbia, across street from #436.

QUANTITIES THIS SHEET Control Section 82/95 D
 Conc. Curb, Detail 2A ----- 1050 Lin. Ft.
 Bituminous Bond Coat ----- 5 Gal.
 Temp. Conc. Sidewalk (2") ----- 2706 Sq. Ft.
 Temp. Steel Beam Guard Rail ----- 382 Lin. Ft.
 Temp. Curved Steel Beam Guard Rail ----- 875 Lin. Ft.

Station	Removing Bit. Surf. Sq. Yds.	Bituminous Conc. Pav't Sq. Yds.
Grand River Ave. Detour		
27+37	24	24
Totals	24	24

2.0 tons Bit. Conc. Wearing Course-3/AA
 2.0 tons Bit. Conc. Leveling Course

Remove Bituminous Surface shown cross-hatched to provide a smooth connection. Replace with Bituminous concrete Pavement.

Notes:
 Stations shown in brackets, thus (), refer to the existing street survey stationing.

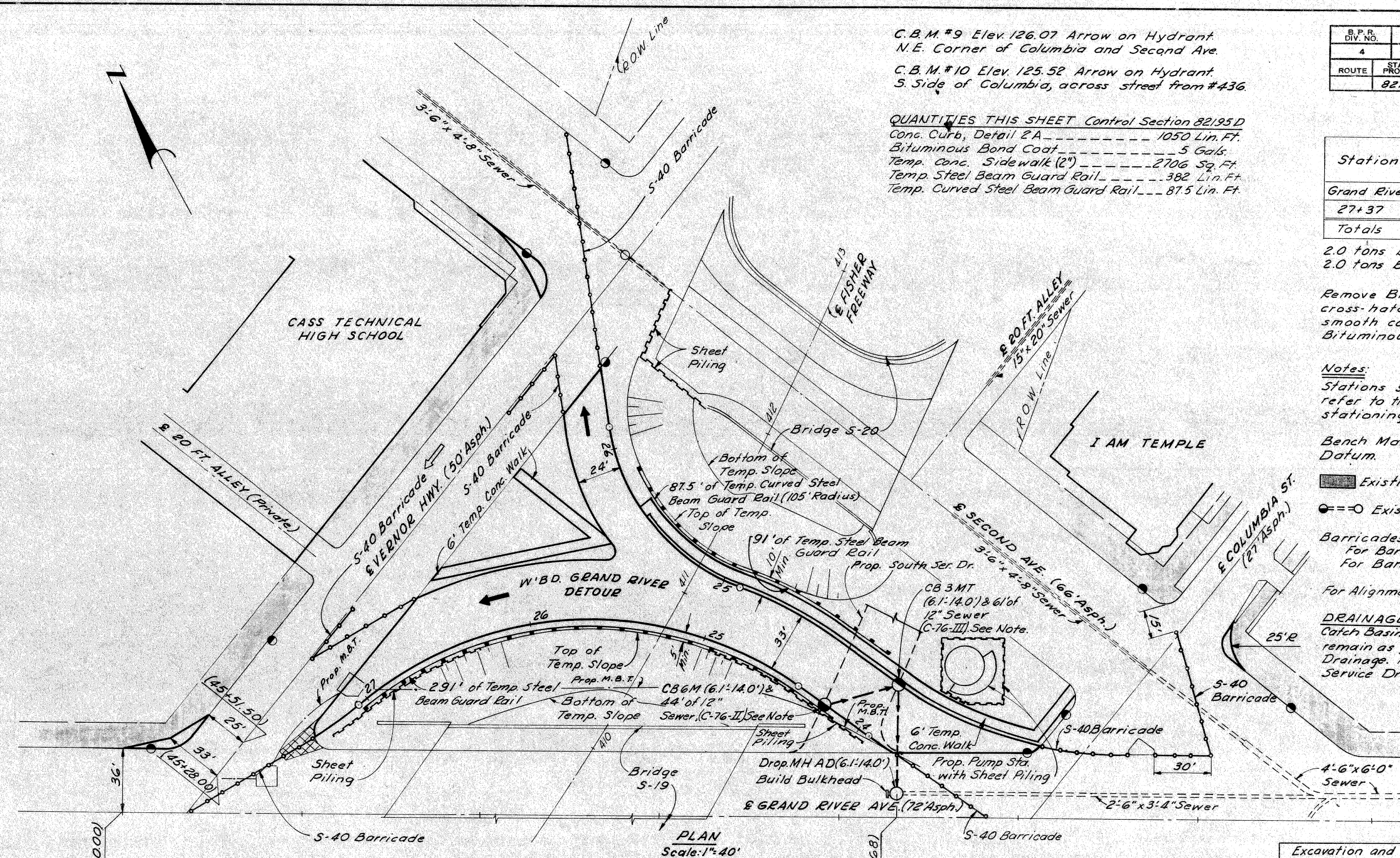
Bench Marks are on City of Detroit Datum.

Existing Sidewalks to remain

Existing Drainage

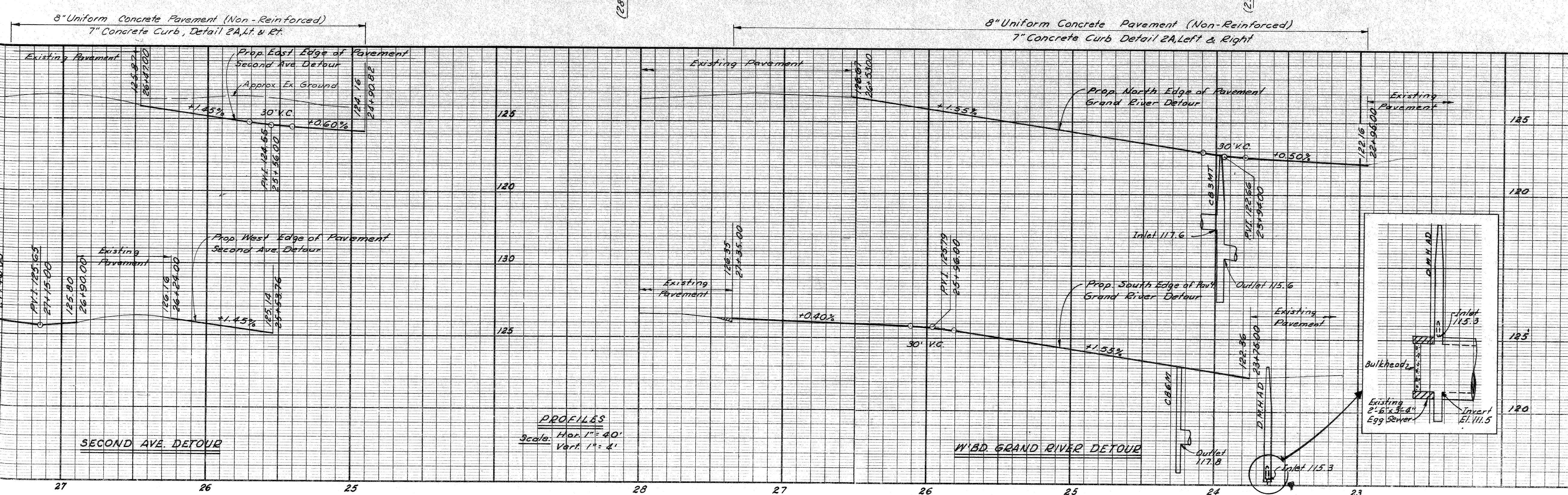
Barricades:
 For Barricade Quantities see sh. # 3
 For Barricade Lighting see PLC dwgs.
 For Alignment see sh. # 9

DRAINAGE NOTE:
 Catch Basins built in this stage are to remain as permanent Service Drive Drainage. For location see South Service Drive Sh. # 17



PLAN Scale: 1"=40'

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.



SECOND AVE. DETOUR

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

W.B.D. GRAND RIVER DETOUR

PLAN AND PROFILE SECOND AVE. AND WESTBOUND GRAND RIVER AVE. DETOURS

G.D. MILZ
F.A. CALTABANO
M.F. KOBAY
Alan E. Meyer

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

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

DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			19	

Station	Removing Bit. Surf. Sq. Yds.	Bituminous Conc. Pavt. Sq. Yds.
27+37	24	24
Totals	24	24

2.0 tons Bit. Conc. Wearing Course-3/AA
2.0 tons Bit. Conc. Leveling Course

Remove Bituminous Surface shown cross-hatched to provide a smooth connection. Replace with Bituminous Concrete Pavement.

Notes:
Stations shown in brackets, thus (), refer to the existing street survey stationing.

Bench Marks are on City of Detroit Datum.

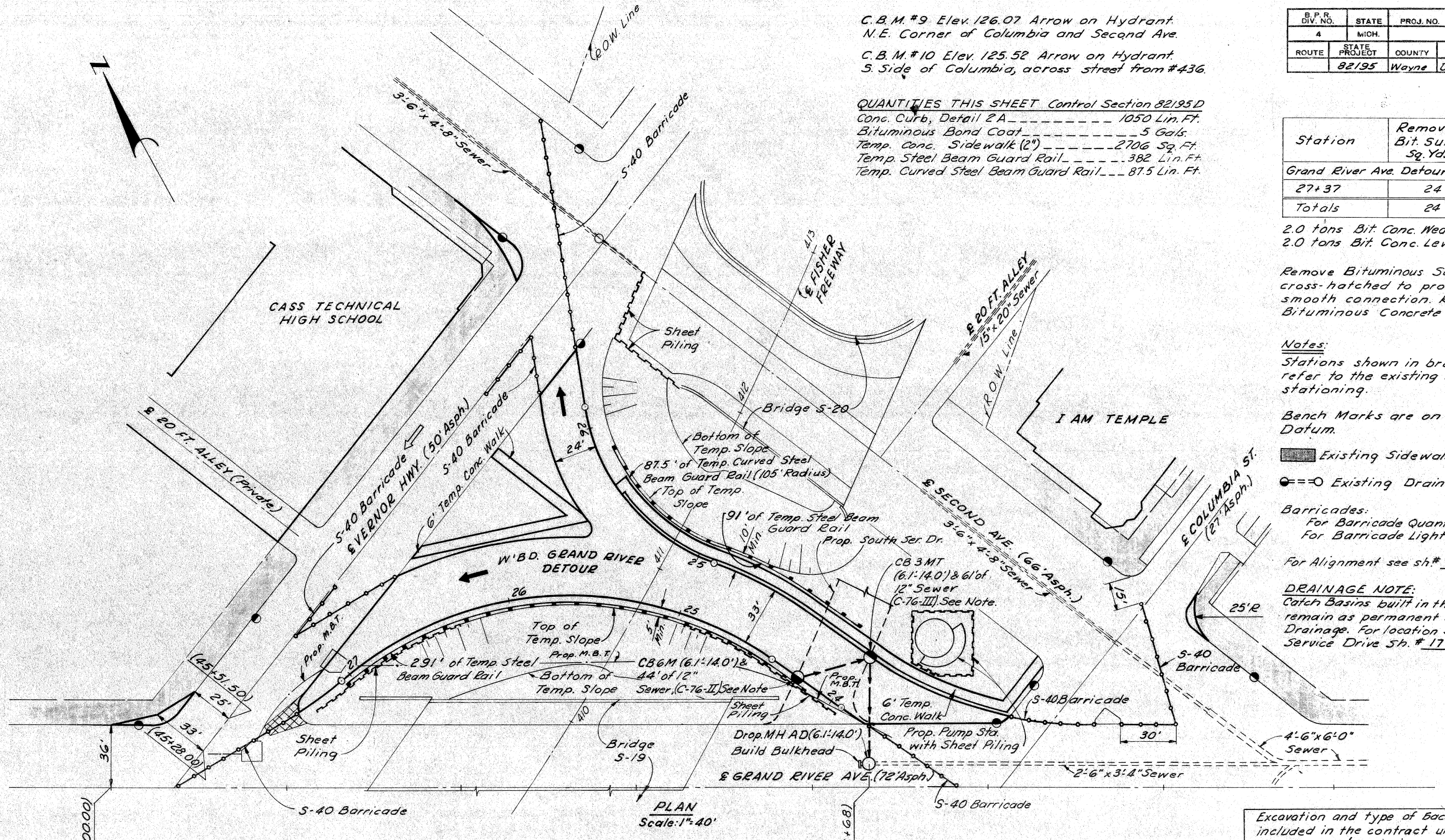
Existing Sidewalks to remain
Existing Drainage

Barricades:
For Barricade Quantities see sh # 3
For Barricade Lighting see PLC. dwgs.

For Alignment see sh # 9

DRAINAGE NOTE:
Catch Basins built in this stage are to remain as permanent Service Drive Drainage. For location see South Service Drive Sh. # 17.

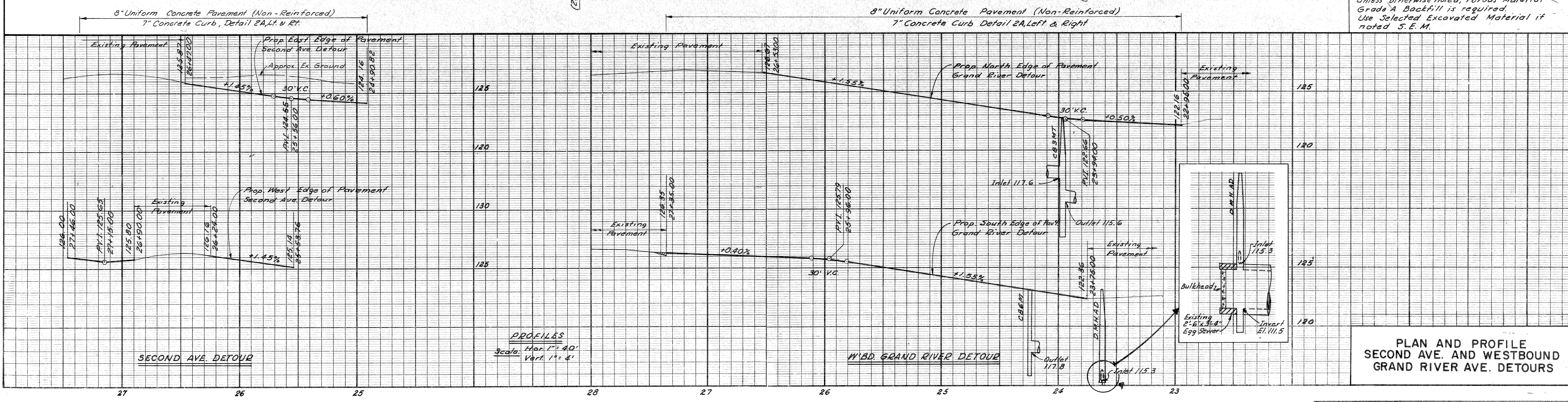
Excavation and type of backfill required are included in the contract unit price for sewers and for drainage structures. Unless otherwise noted, Porous Material Grade A Backfill is required. Use Selected Excavated Material if noted S.E.M.



C.B.M. #9 Elev. 126.07 Arrow on Hydrant
N.E. Corner of Columbia and Second Ave.
C.B.M. #10 Elev. 125.52 Arrow on Hydrant
S. Side of Columbia, across street from #436.

QUANTITIES THIS SHEET Control Section 82195D
Conc. Curb, Detail 2A ----- 1050 Lin. Ft.
Bituminous Bond Coat ----- 5 Gal.
Temp. Conc. Sidewalk (2") ----- 2706 Sq. Ft.
Temp. Steel Beam Guard Rail ----- 382 Lin. Ft.
Temp. Curved Steel Beam Guard Rail ----- 875 Lin. Ft.

PLAN Scale: 1"=40'



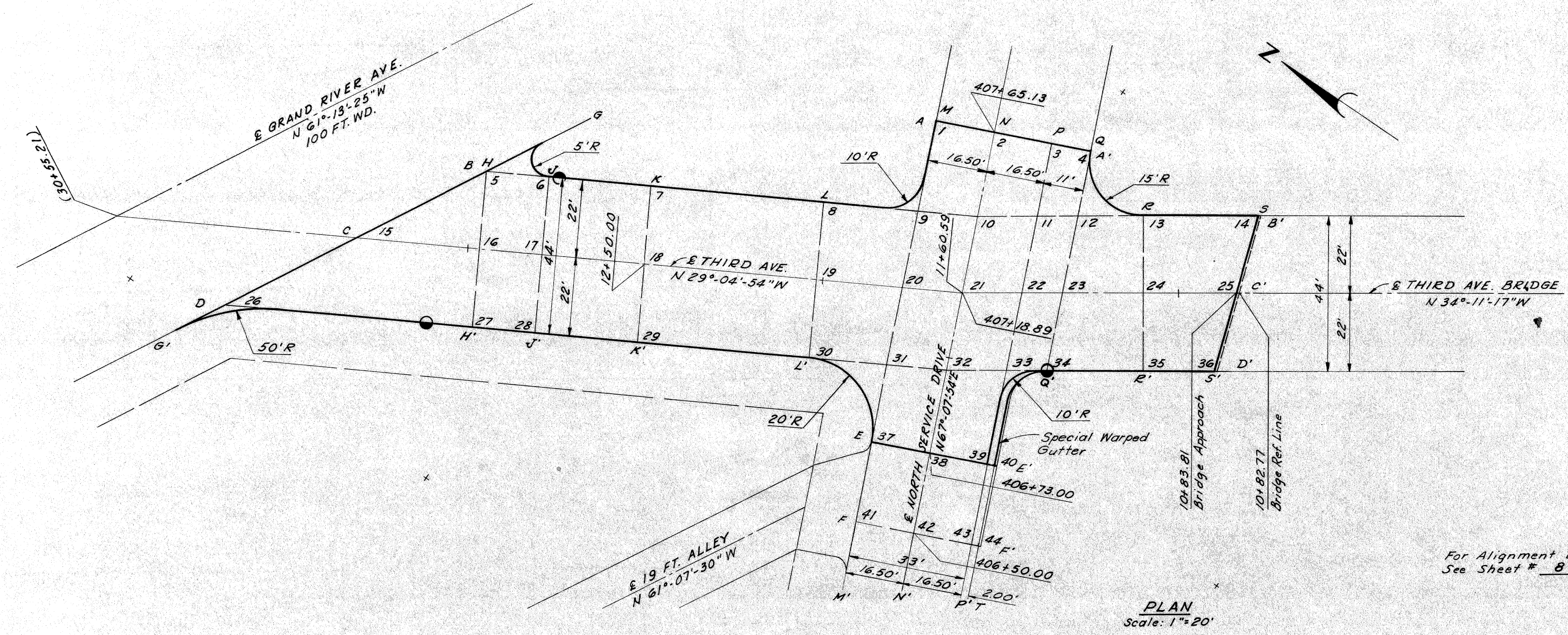
PROFILES
Scale: Hor. 1"=40'
Vert. 1"=4'

PLAN AND PROFILE
SECOND AVE. AND WESTBOUND
GRAND RIVER AVE. DETOURS

G.D. HUIZ
 A.A. CAZABANO
 B.V. TEMPORELLI
 M.W. S. JARVIS

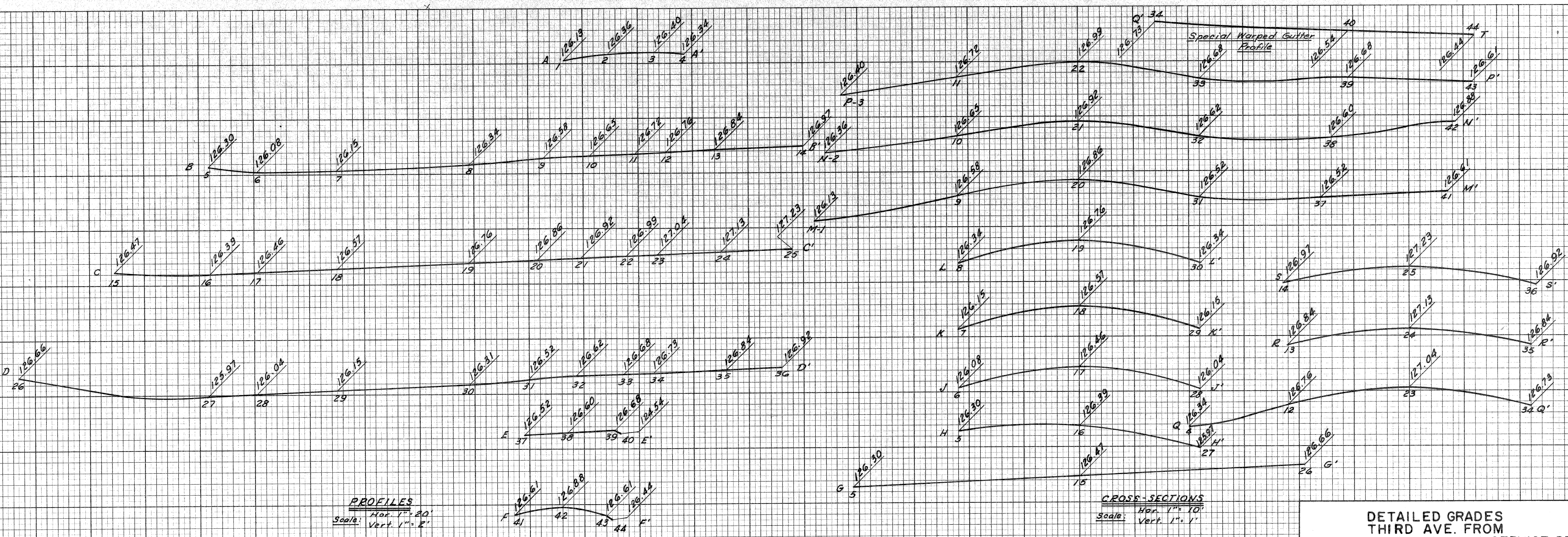
OPERATION	BY	DATE
PRELIMINARY P.O.W. CHECKED		
FINAL DESIGN CHECKED		
TRACED		
FINAL P.O.W. CHECK		
QUANTITIES CHECKED		
BOUND		

D.P. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			20	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		20	
D.P. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			20	
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS
				20	



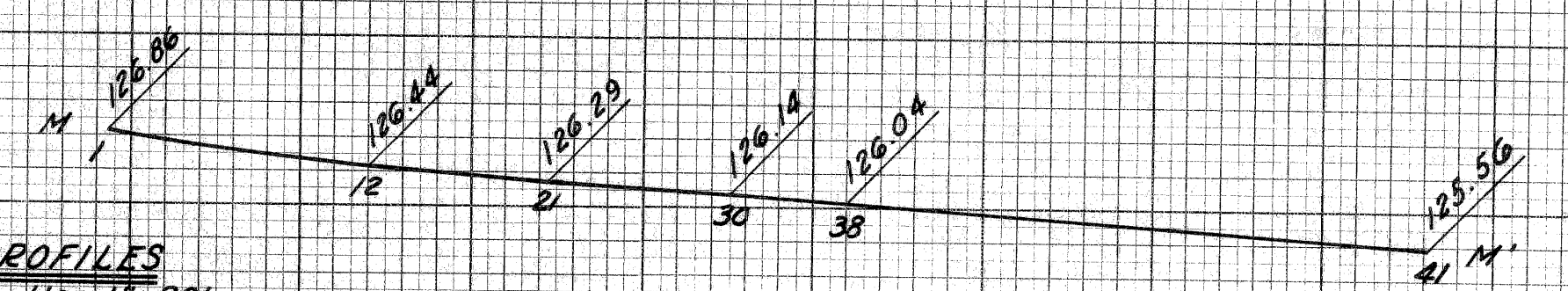
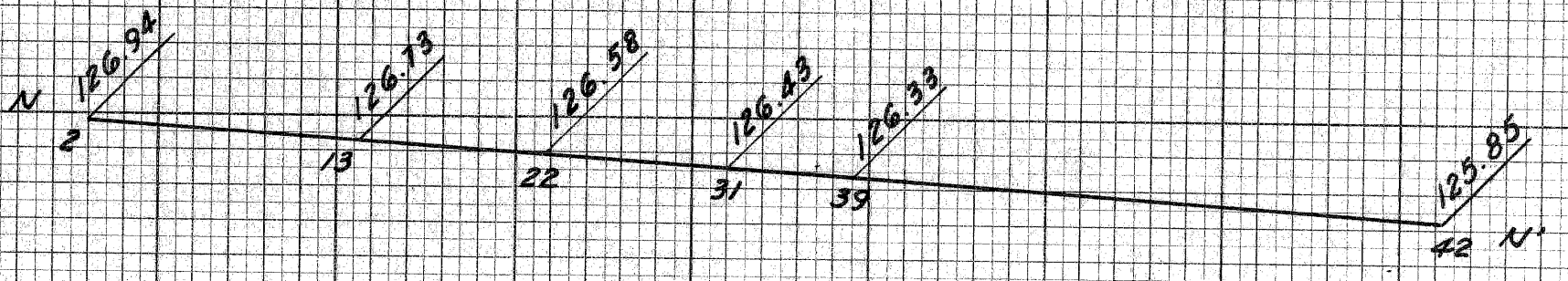
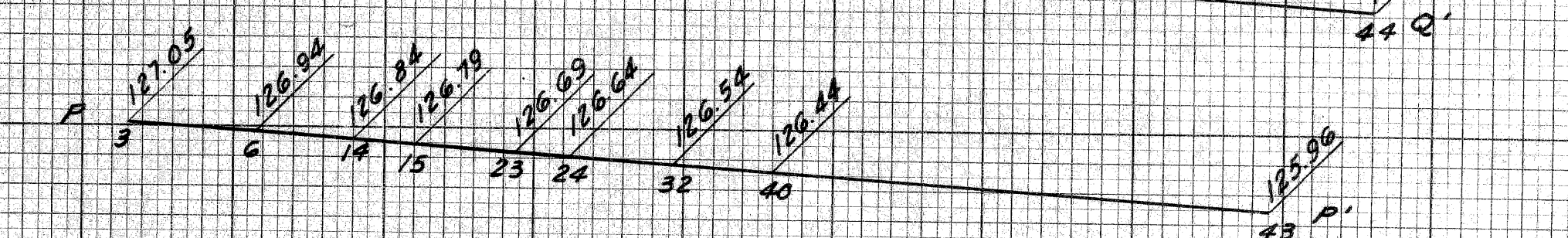
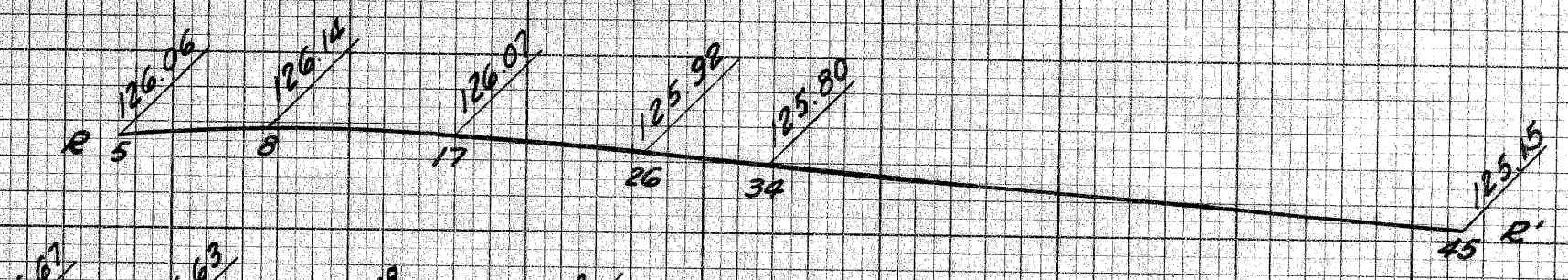
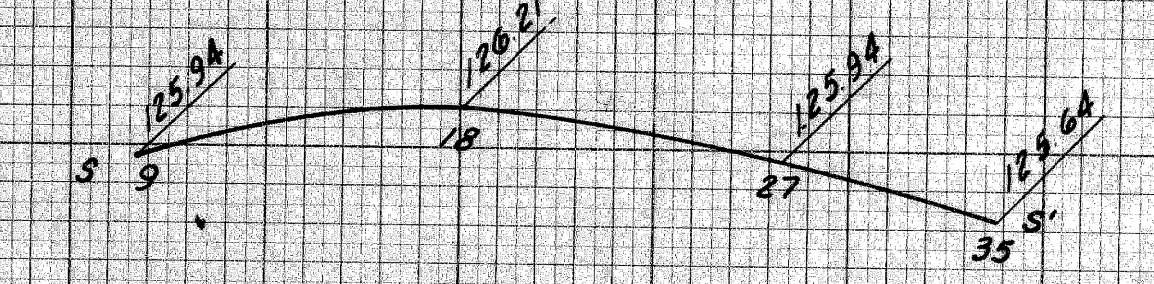
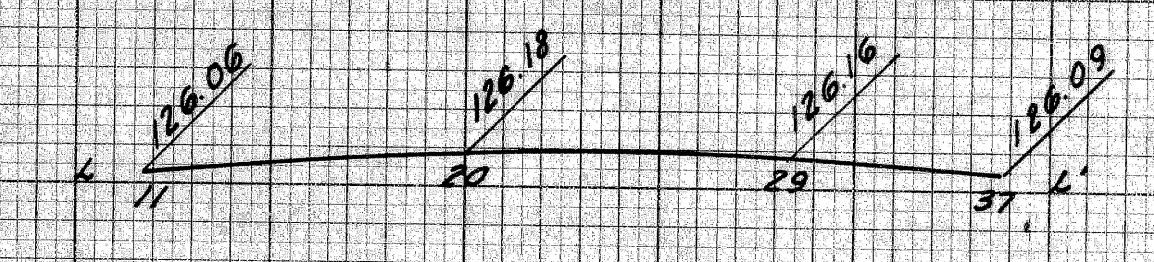
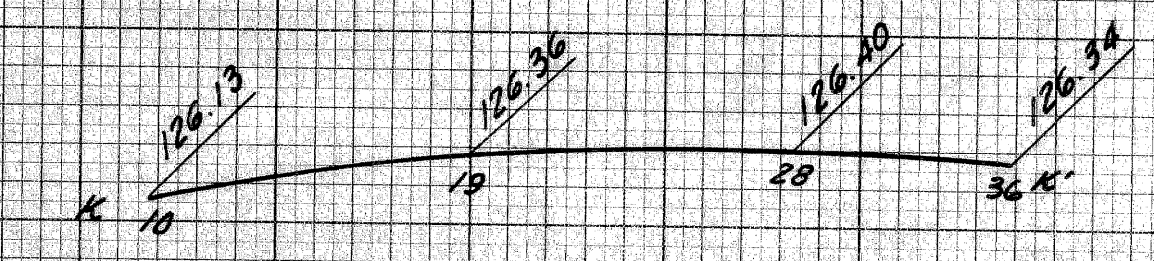
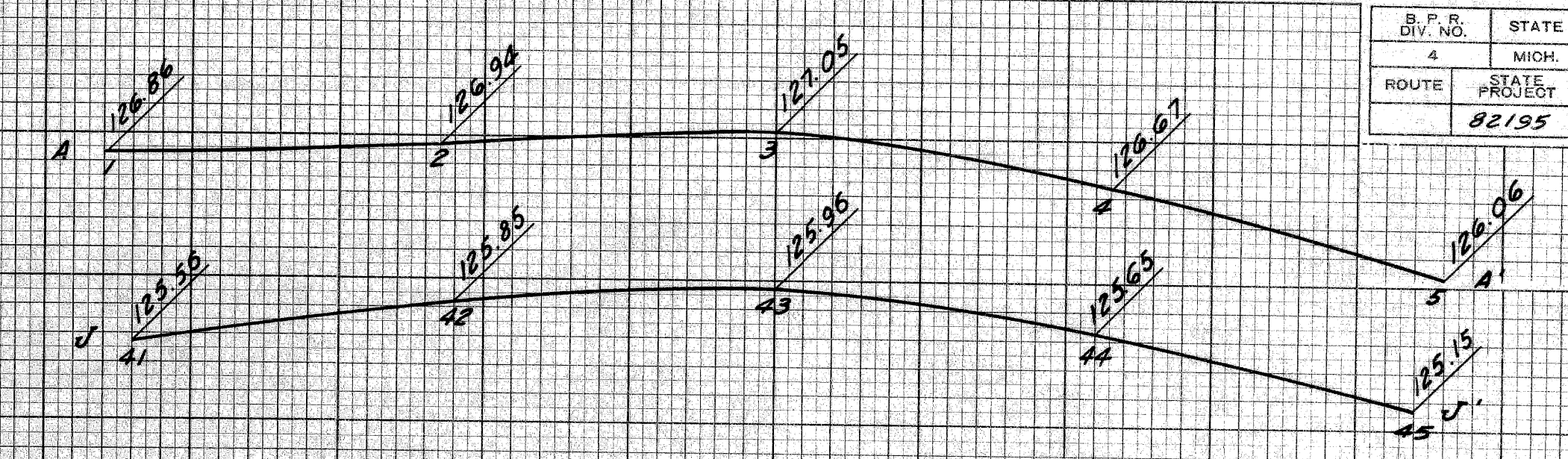
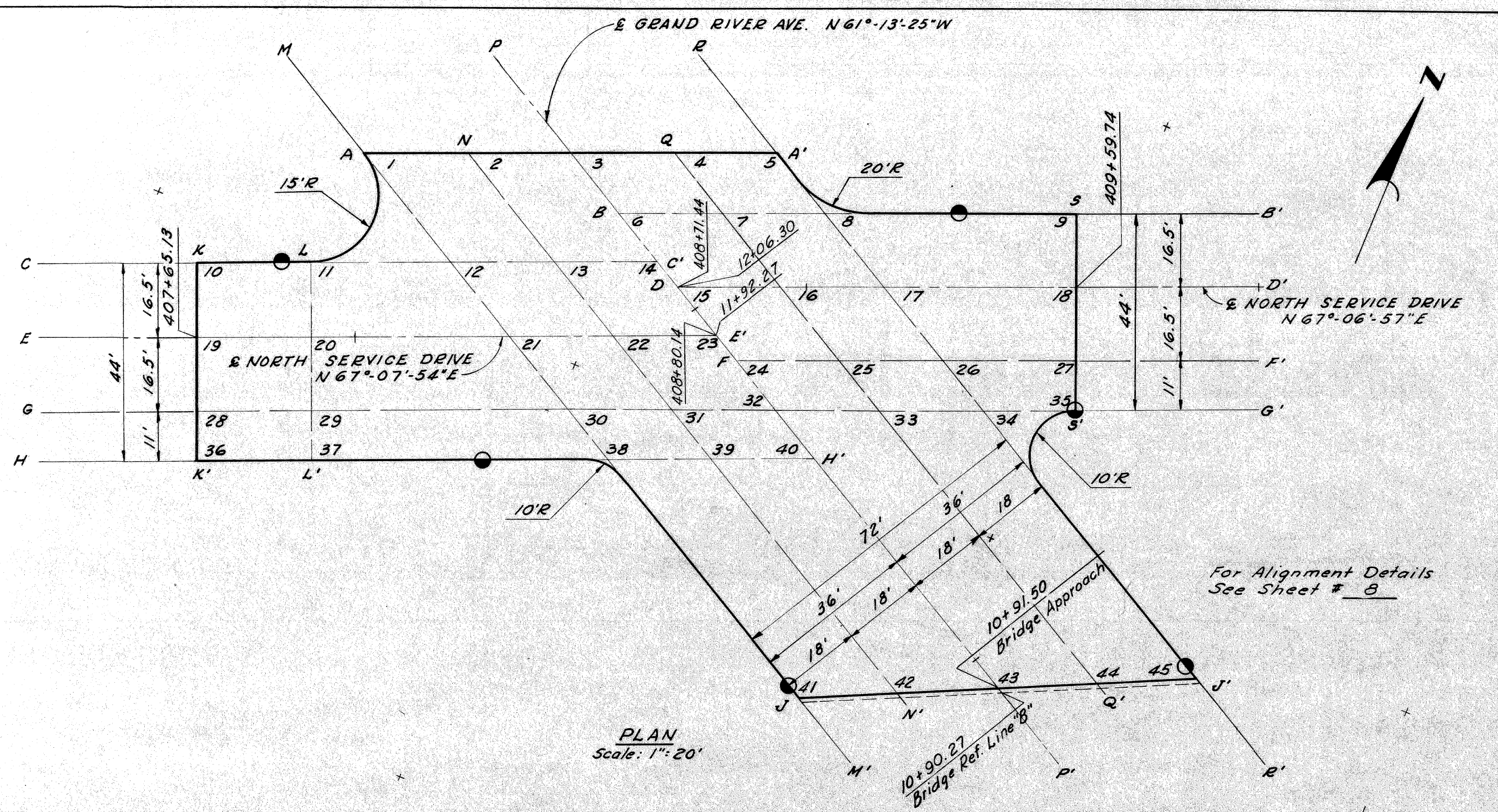
For Alignment Details
 See Sheet # 8

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



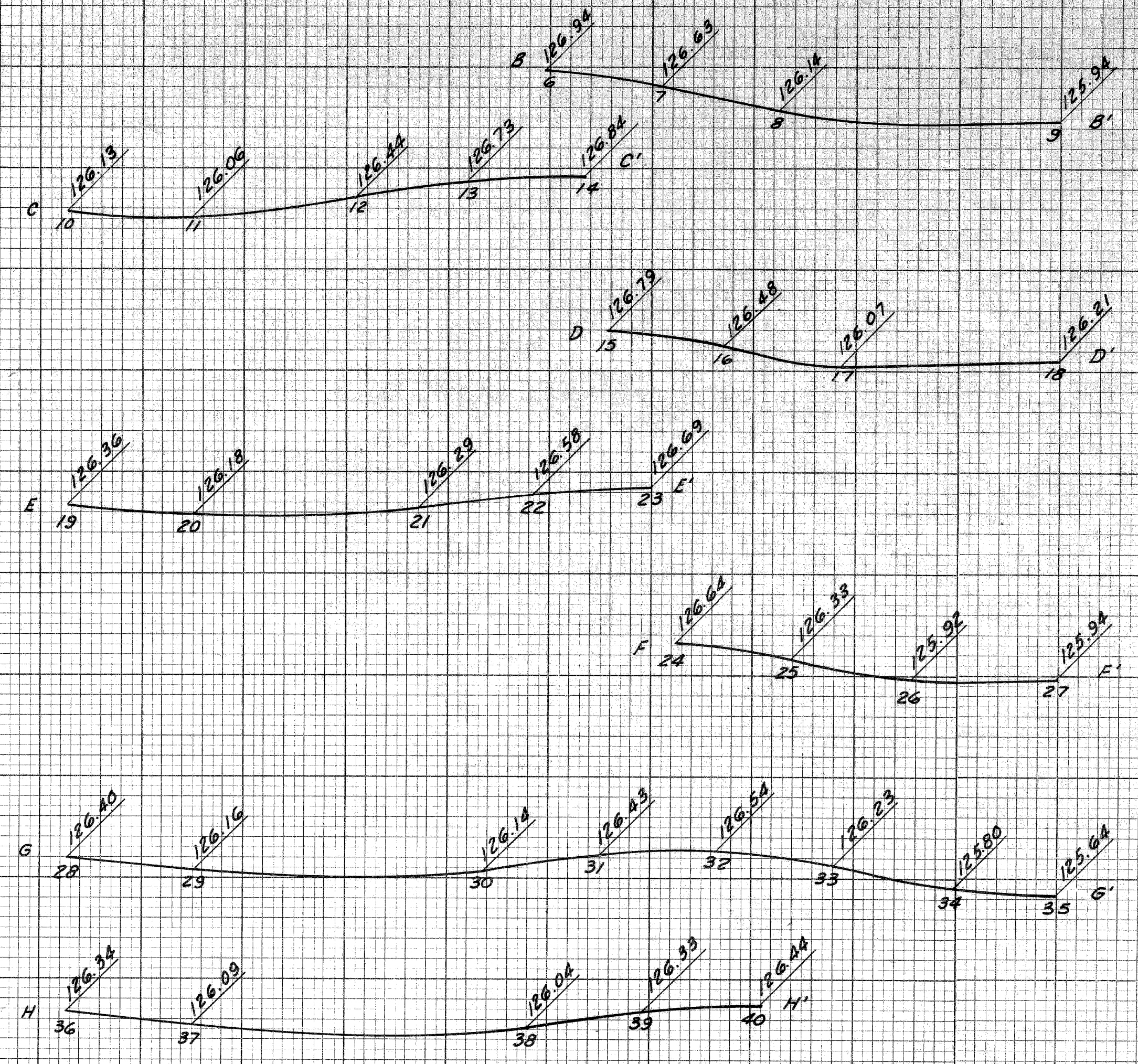
DETAILED GRADES
 THIRD AVE. FROM
 GRAND RIVER AVE. TO N. SERVICE DR.

R.F. R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			21	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195		Wayne	Detroit	21	



PROFILES
Hor. 1" = 20'
Vert. 1" = 2'

CROSS-SECTIONS
Hor. 1" = 10'
Vert. 1" = 1'



DETAILED GRADES
NORTH SERVICE DRIVE
AT GRAND RIVER AVENUE

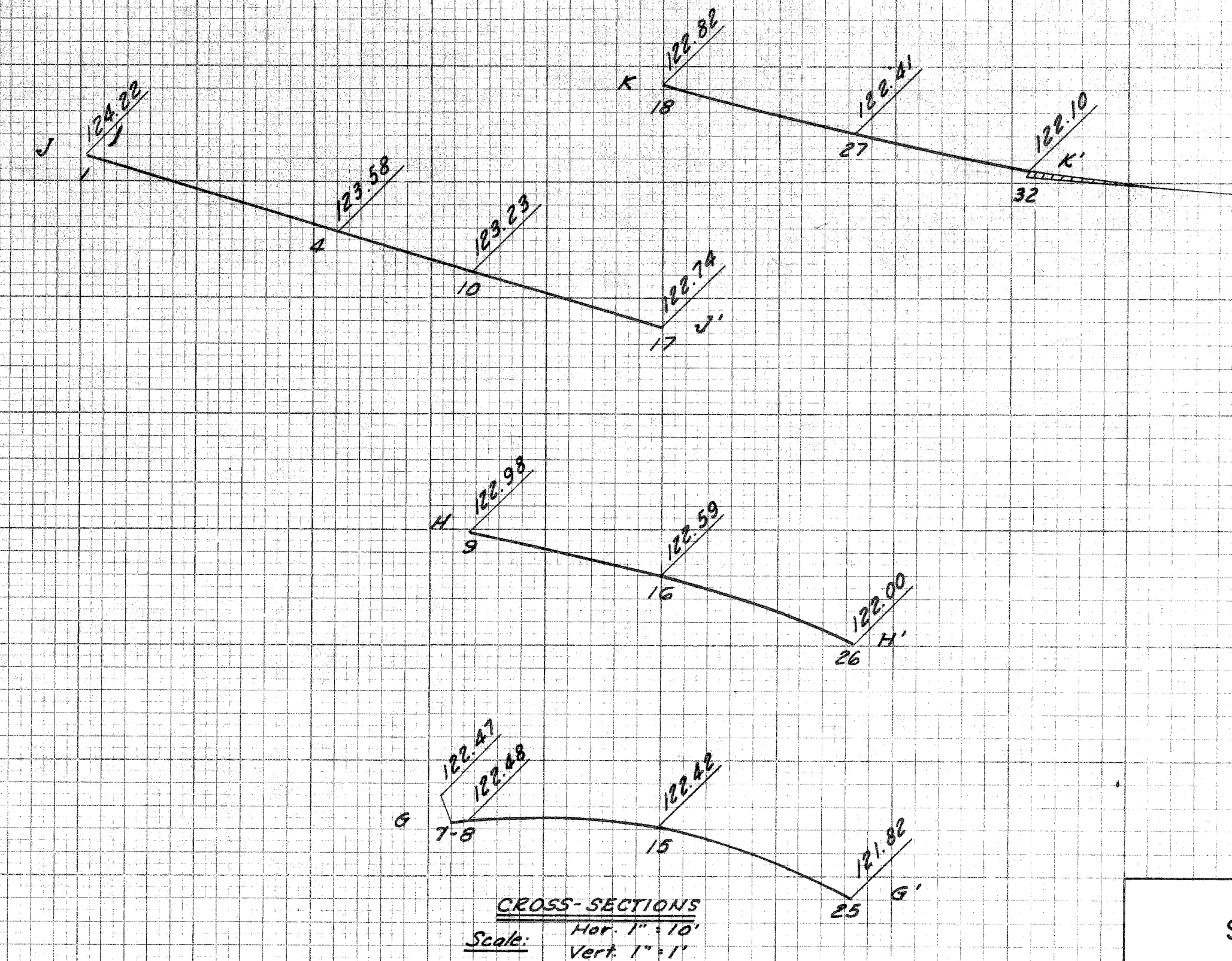
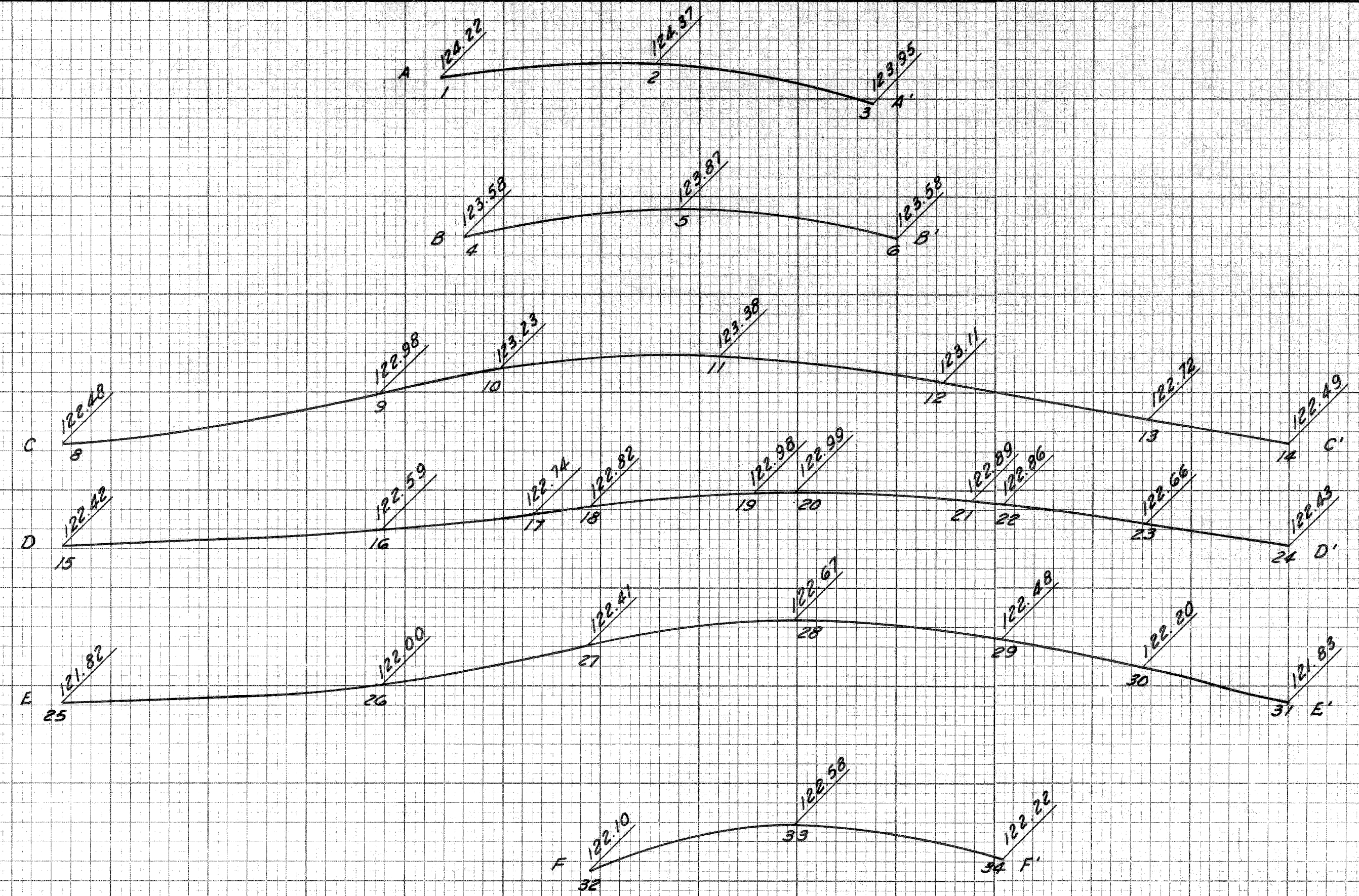
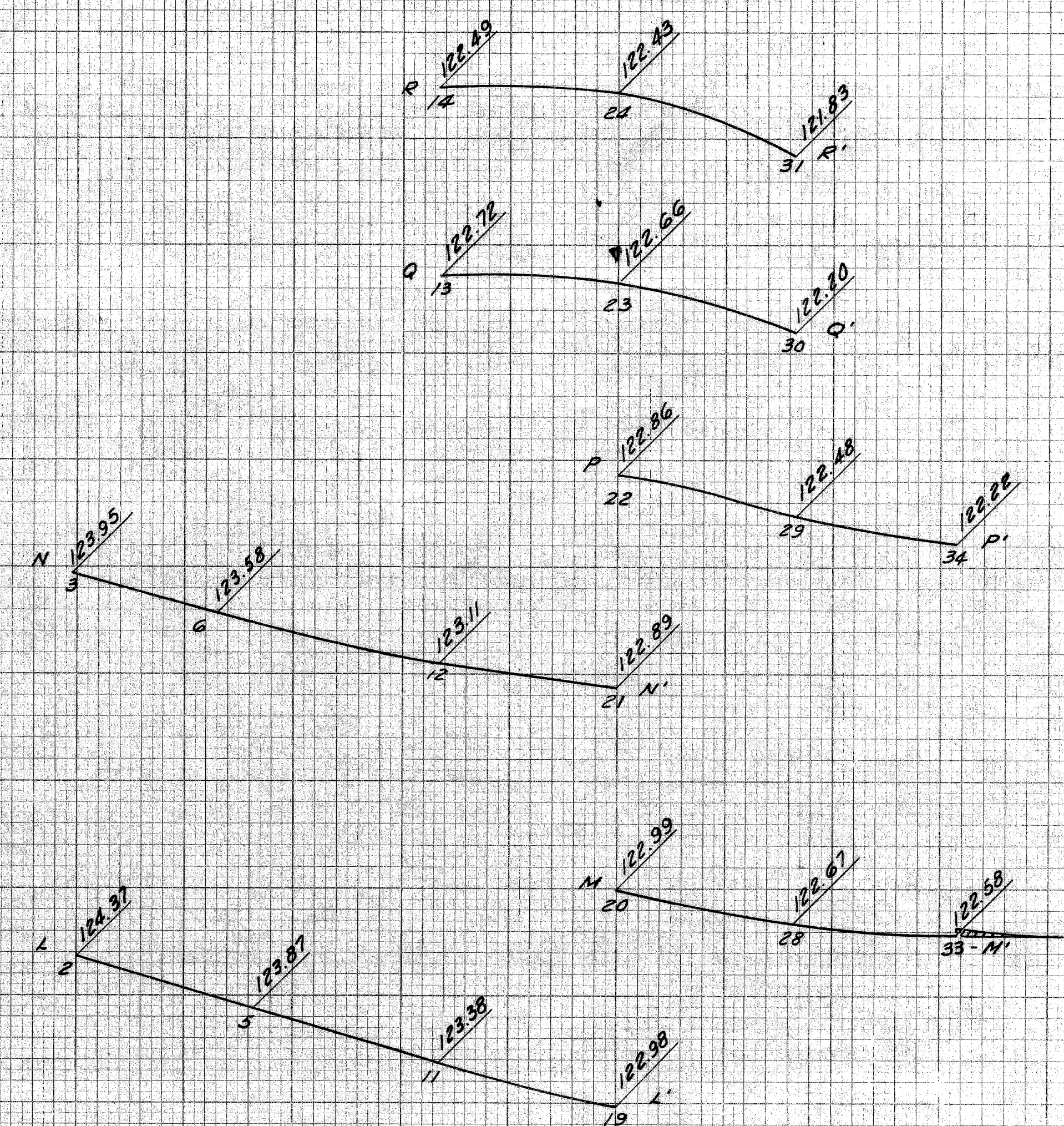
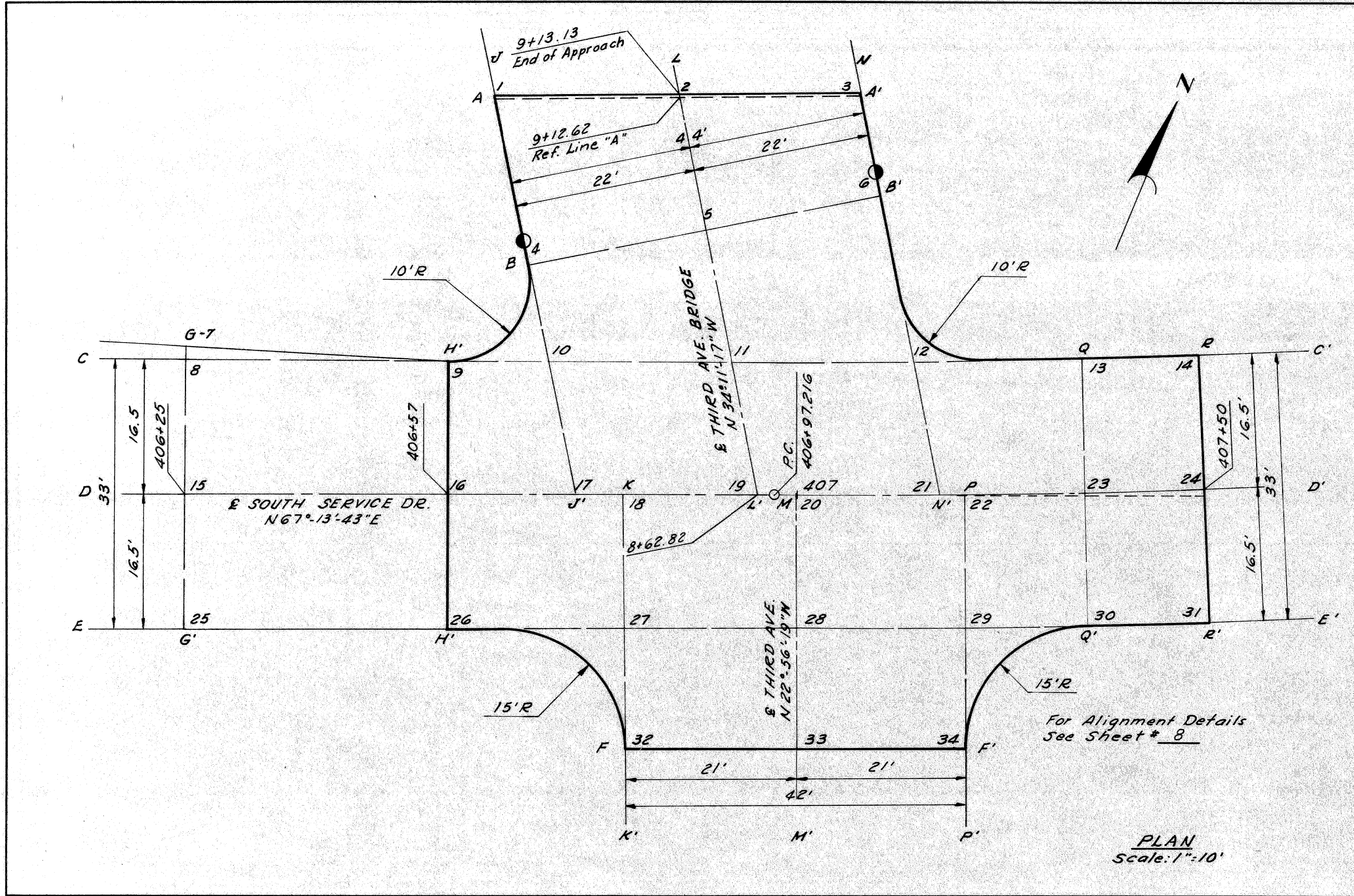
FILE NO. 82195	STATE PROJECT 82195B	FEDERAL PROJECT NO. C13	SHEET NO. 21
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DATE	
BY	
PLOTTED	
COMPUTED	
CHECKED	

4-55
4-55
4-55
4-55

G.D. MILZ
F.A. CALTABIANO
M.F. KOBEAN
ALLAN E. JENSEN

S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		24	

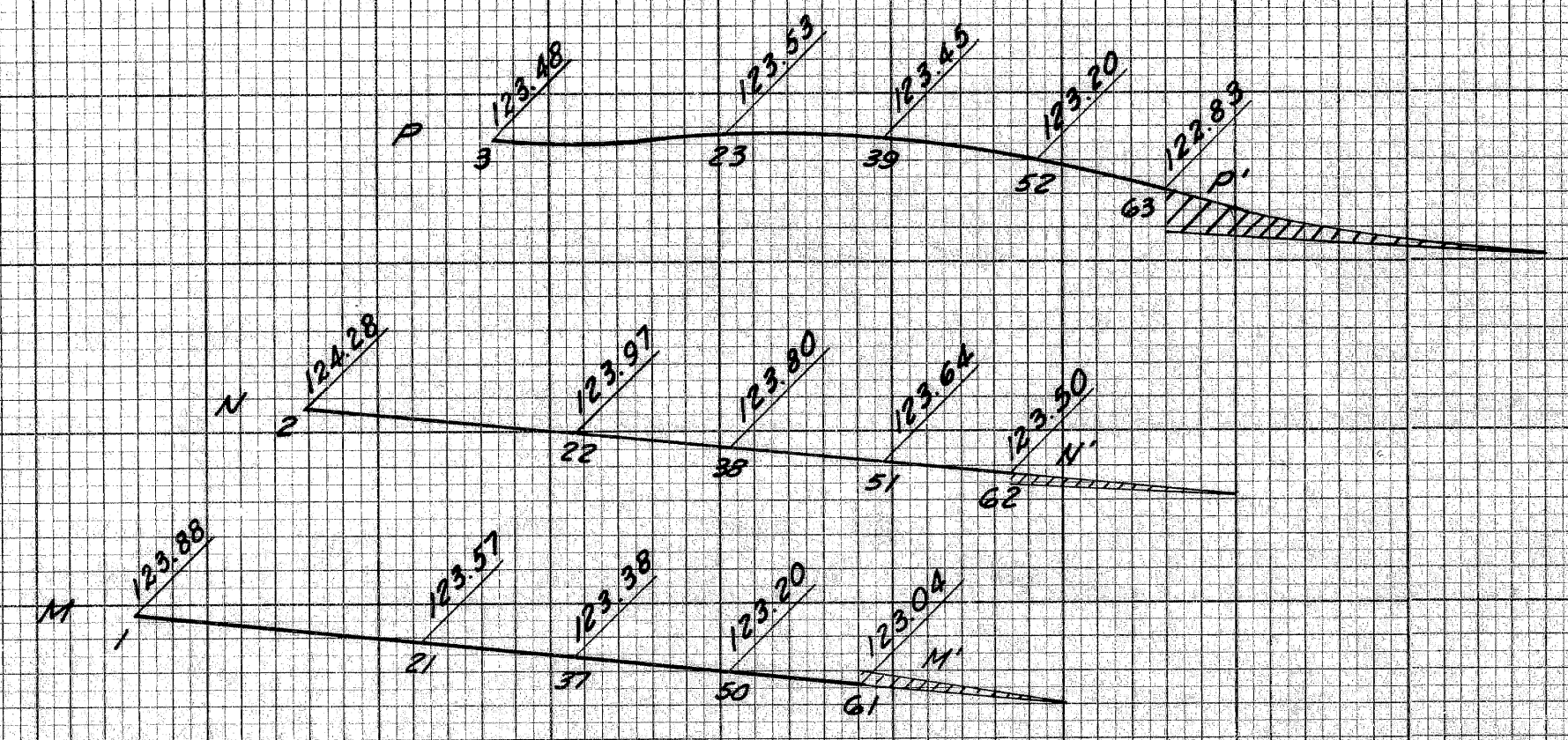


DETAILED GRADES
SOUTH SERVICE DRIVE
AT THIRD AVENUE

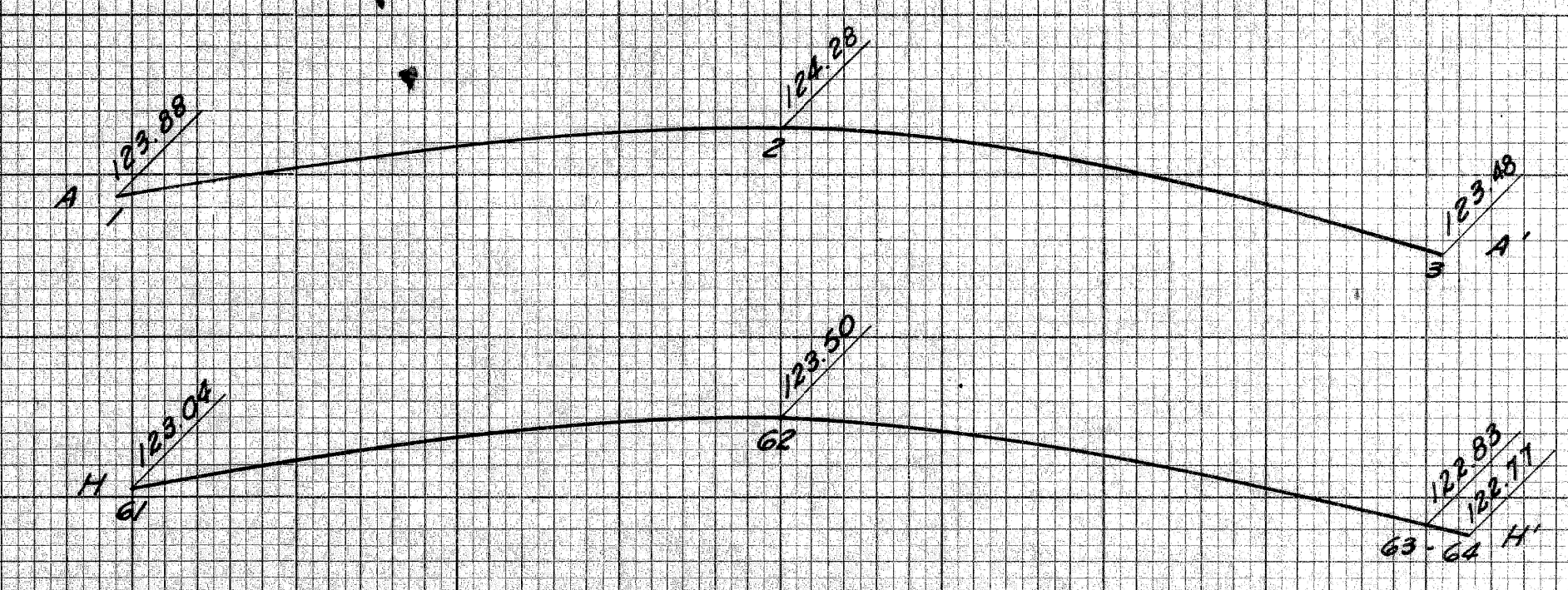
DATE	
BY	
PLOTTED	
COMPUTED	
CHECKED	

4-65
G.D. MILL
F.A. CALTABIANO
M.F. COBBAN
Blaw E. Payne
4-65
4-65
4-65

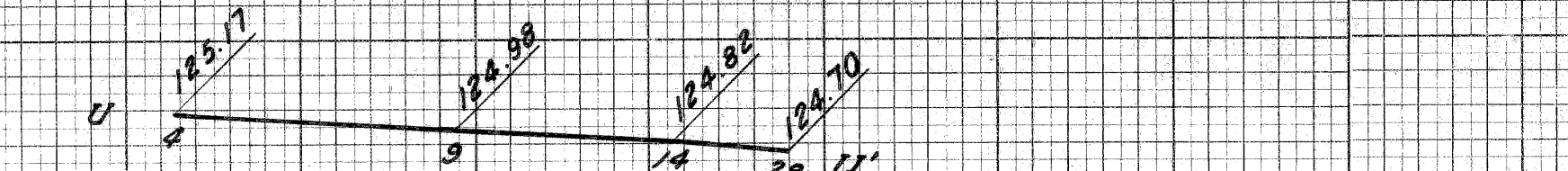
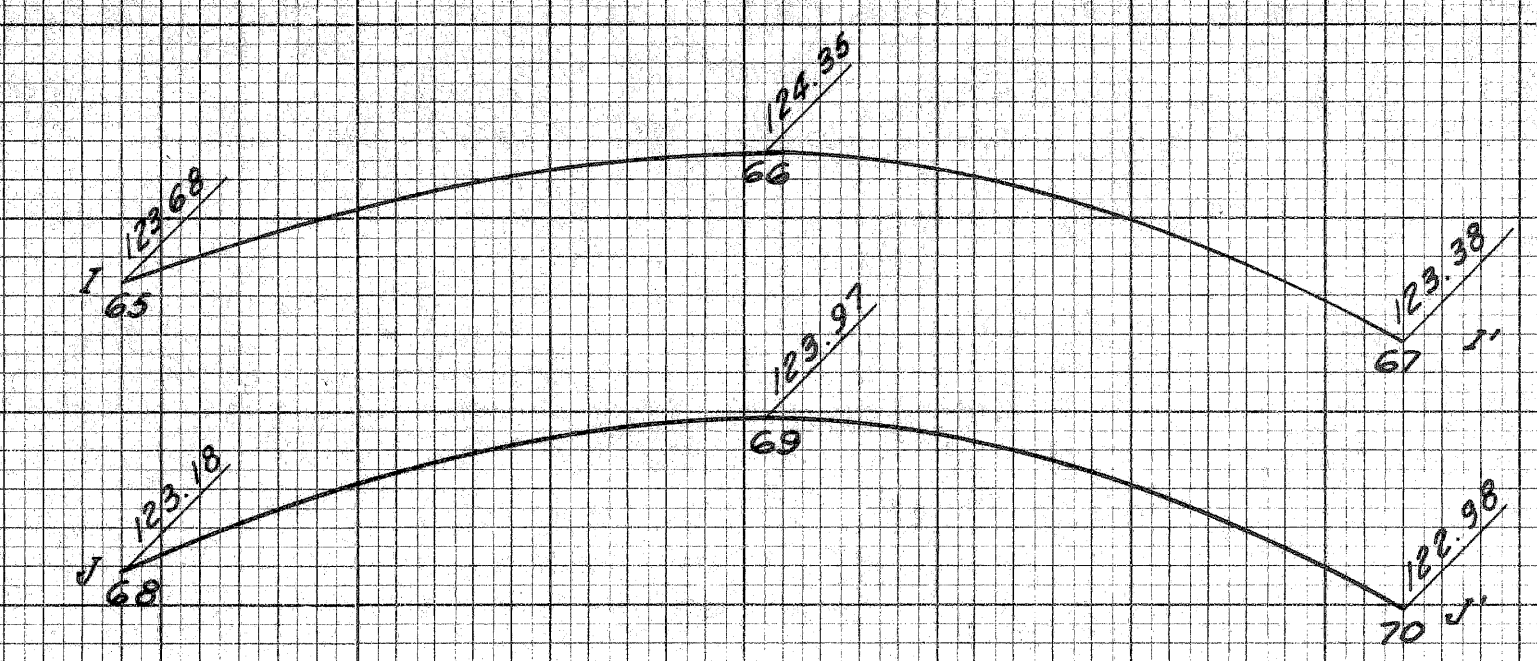
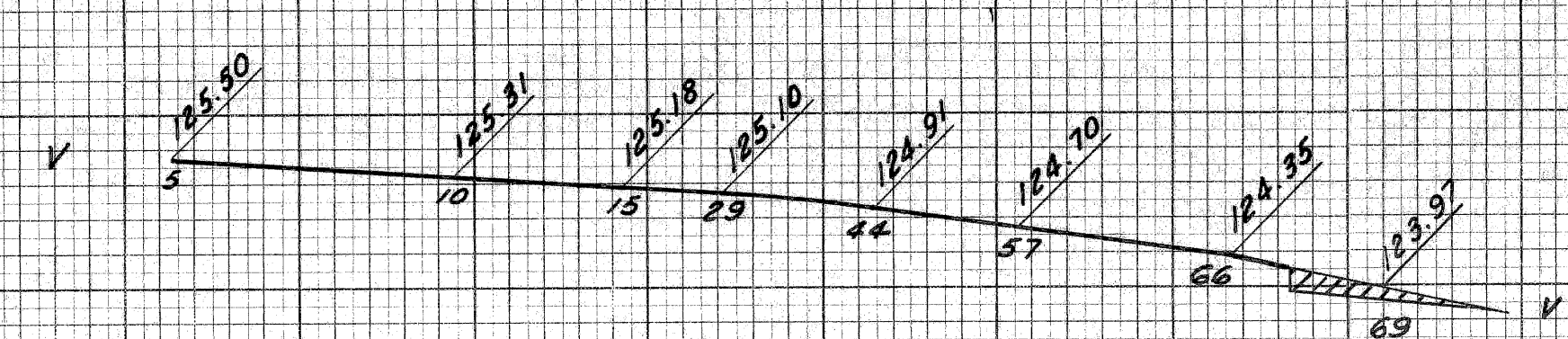
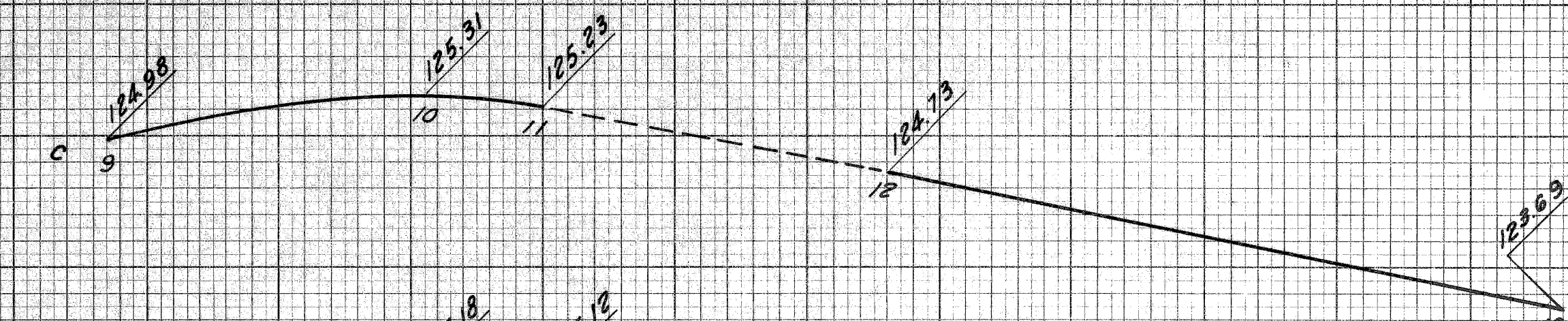
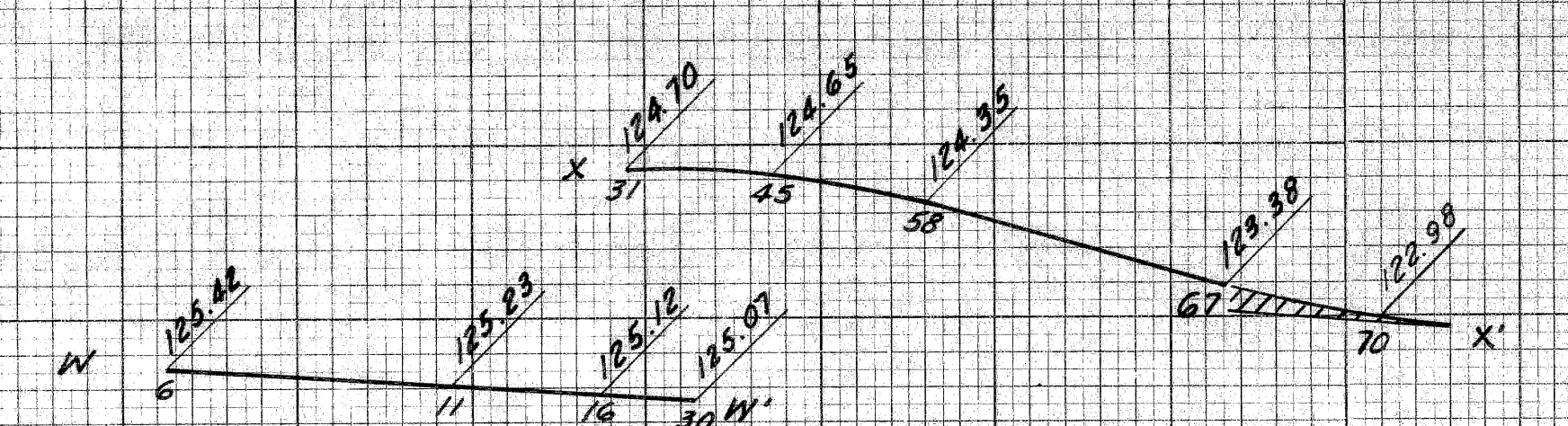
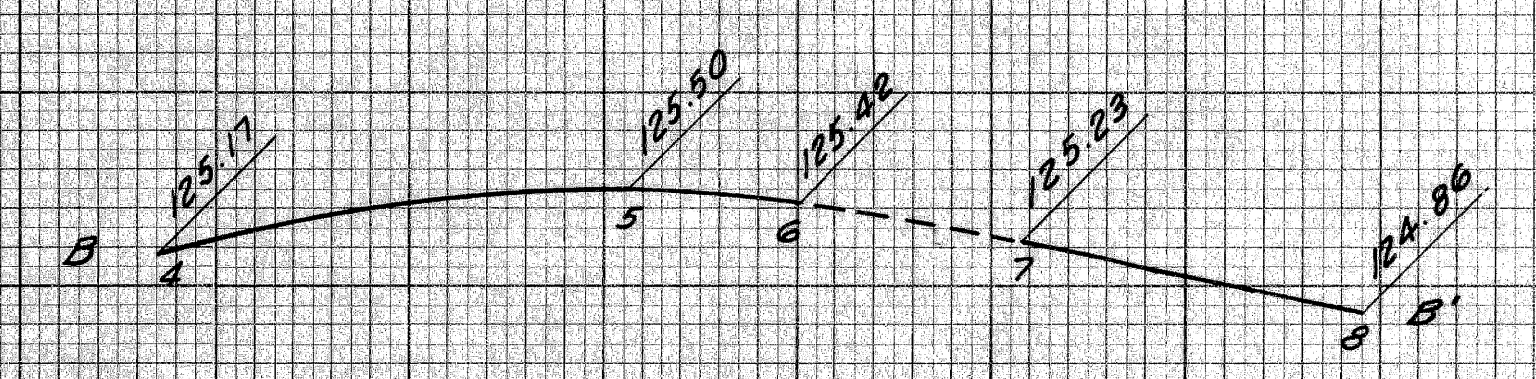
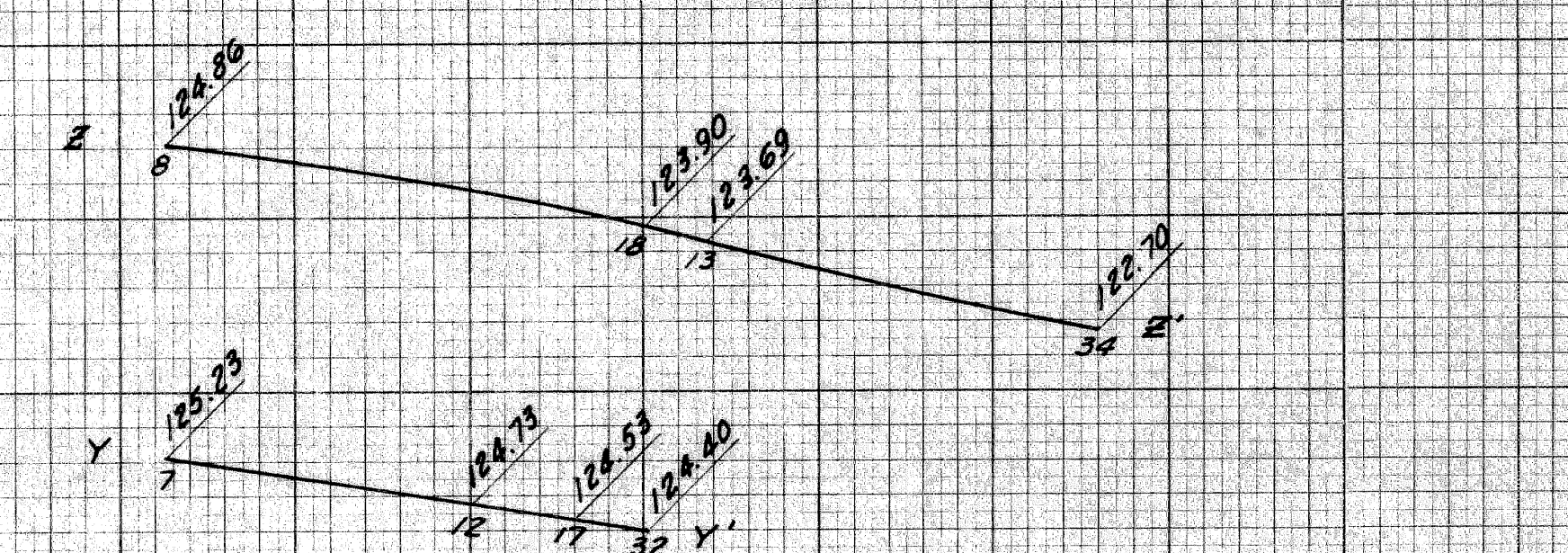
S.P. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			26	
ROUTE	PLATE NO.	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		26	



GRAND RIVER AVE PROFILES



GRAND RIVER AVE



SECOND AVE PROFILES

Scale: Hor. 1" = 20'
Vert. 1" = 2'

SECOND AVE
CROSS-SECTIONS
Scale: Hor. 1" = 10'
Vert. 1" = 1'

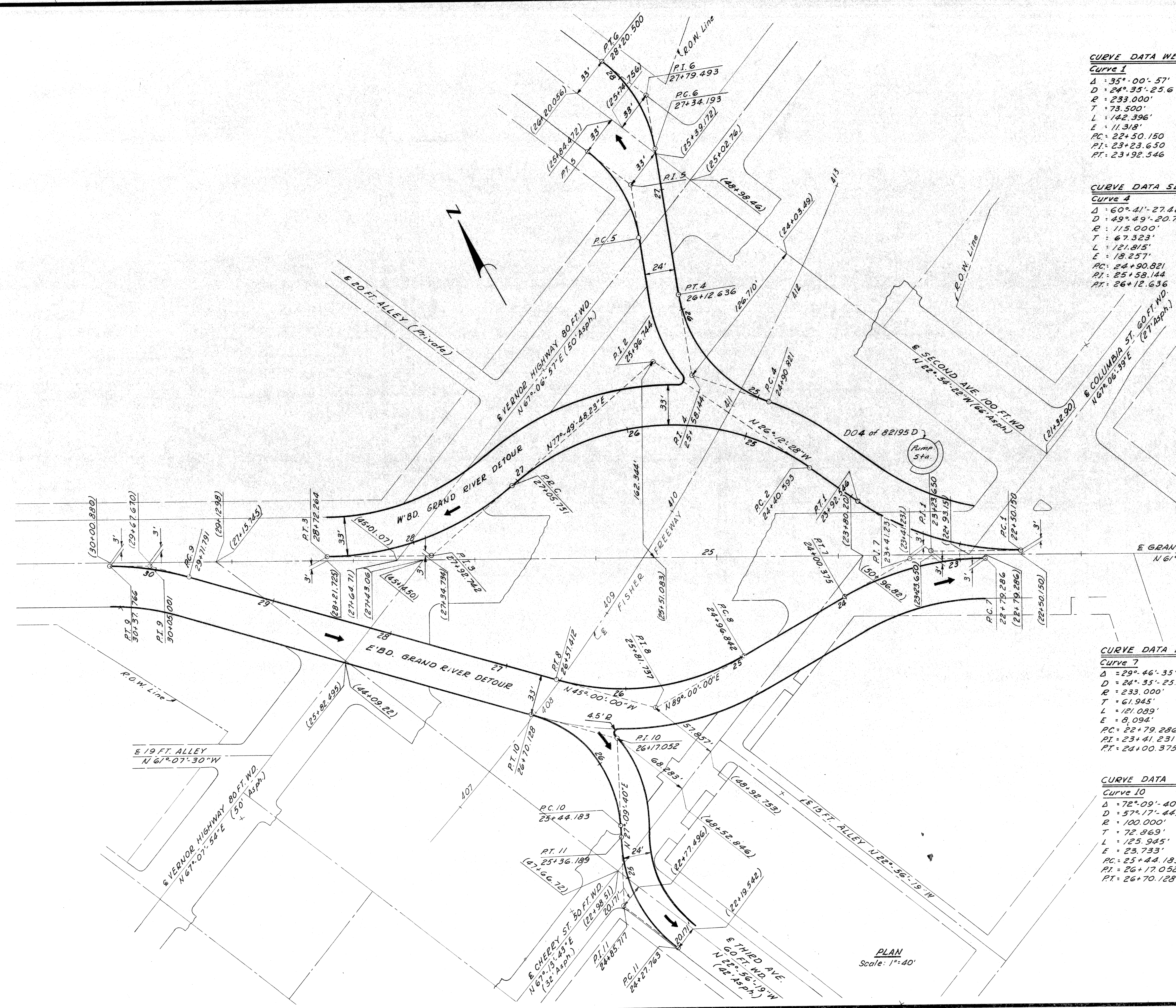
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BY	
PLOTTED	
COMPUTED	
CHECKED	

4.65
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G. D. MILLER
F. A. CALTAGIRNO
G. D. MILLER
Approved: [Signature]

DETAILED GRADES
SOUTH SERVICE DRIVE
FROM GRAND RIVER TO SECOND AVE.

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
82195 B C13	82195	115-11016	26

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			9	
ROUTE	STATE PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		9	



CURVE DATA WESTBOUND GRAND RIVER DETOUR

Curve 1	Curve 2	Curve 3
$\Delta = 35^{\circ} 00' 57''$	$\Delta = 75^{\circ} 57' 43.77''$	$\Delta = 40^{\circ} 56' 46.77''$
$D = 24^{\circ} 35' 25.67''$	$D = 28^{\circ} 38' 52.40''$	$D = 24^{\circ} 35' 25.67''$
$R = 233.000'$	$R = 200.000'$	$R = 233.000'$
$T = 73.500'$	$T = 156.151'$	$T = 86.991'$
$L = 142.396'$	$L = 265.158'$	$L = 166.513'$
$E = 11.318'$	$E = 53.738'$	$E = 15.710'$
$PC = 22+50.150$	$PC = 24+40.593$	$PC = 27+05.751$
$PI = 23+23.650$	$PI = 25+96.744$	$PI = 27+92.742$
$PT = 23+92.546$	$PT = 27+05.751$	$PT = 28+72.264$

CURVE DATA SECOND AVENUE DETOUR

Curve 4	Curve 5	Curve 6
$\Delta = 60^{\circ} 41' 27.48''$	$\Delta = 43^{\circ} 00' 00''$	$\Delta = 43^{\circ} 00' 00''$
$D = 49^{\circ} 49' 20.70''$	$D = 49^{\circ} 49' 20.70''$	$D = 49^{\circ} 49' 20.70''$
$R = 115.000'$	$R = 115.000'$	$R = 115.000'$
$T = 67.323'$	$T = 45.300'$	$T = 45.300'$
$L = 121.815'$	$L = 86.307'$	$L = 86.307'$
$E = 18.257'$	$E = 8.600'$	$E = 8.600'$
$PC = 24+90.821$	$PC = -$	$PC = 27+34.193$
$PI = 25+58.144$	$PI = -$	$PI = 27+79.493$
$PT = 26+12.636$	$PT = -$	$PT = 28+20.500$

CURVE DATA EASTBOUND GRAND RIVER DETOUR

Curve 7	Curve 8	Curve 9
$\Delta = 29^{\circ} 46' 35''$	$\Delta = 46^{\circ} 00' 00''$	$\Delta = 16^{\circ} 13' 25''$
$D = 24^{\circ} 35' 25.67''$	$D = 28^{\circ} 38' 52.40''$	$D = 24^{\circ} 35' 25.67''$
$R = 233.000'$	$R = 200.000'$	$R = 233.000'$
$T = 61.945'$	$T = 84.895'$	$T = 33.210'$
$L = 121.089'$	$L = 160.570'$	$L = 65.975'$
$E = 8.094'$	$E = 17.272'$	$E = 2.355'$
$PC = 22+79.286$	$PC = 24+96.842$	$PC = 29+71.791$
$PI = 23+41.231$	$PI = 25+81.737$	$PI = 30+05.001$
$PT = 24+00.375$	$PT = 26+57.412$	$PT = 30+37.766$

CURVE DATA THIRD AVENUE DETOUR

Curve 10	Curve 11
$\Delta = 72^{\circ} 09' 40''$	$\Delta = 50^{\circ} 05' 59''$
$D = 57^{\circ} 17' 44.81''$	$D = 46^{\circ} 12' 22.59''$
$R = 100.000'$	$R = 124.000'$
$T = 72.869'$	$T = 57.954'$
$L = 125.945'$	$L = 108.426'$
$E = 23.733'$	$E = 12.874'$
$PC = 25+44.183$	$PC = 24+27.763$
$PI = 26+17.052$	$PI = 24+85.717$
$PT = 26+70.128$	$PT = 25+36.189$

PLAN
Scale: 1"=40'

ALIGNMENT OF
THIRD AVE., GRAND RIVER AVE.,
AND SECOND AVE. DETOURS

STATE	PROJ. NO.	FEDERAL	SHEET	TOTAL
MICH.			10	
ROUTE	PROJECT	COUNTY	CITY	SHEET
82195		Wayne	Detroit	10

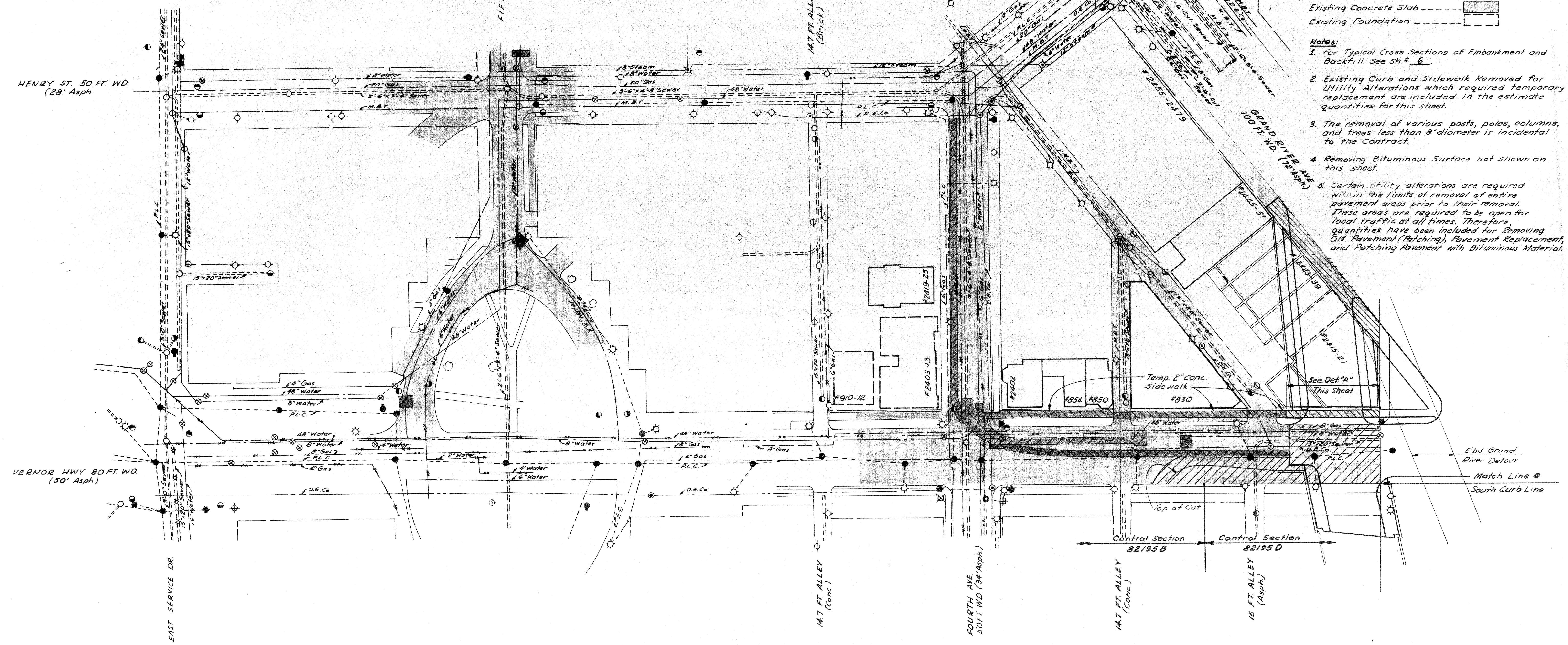
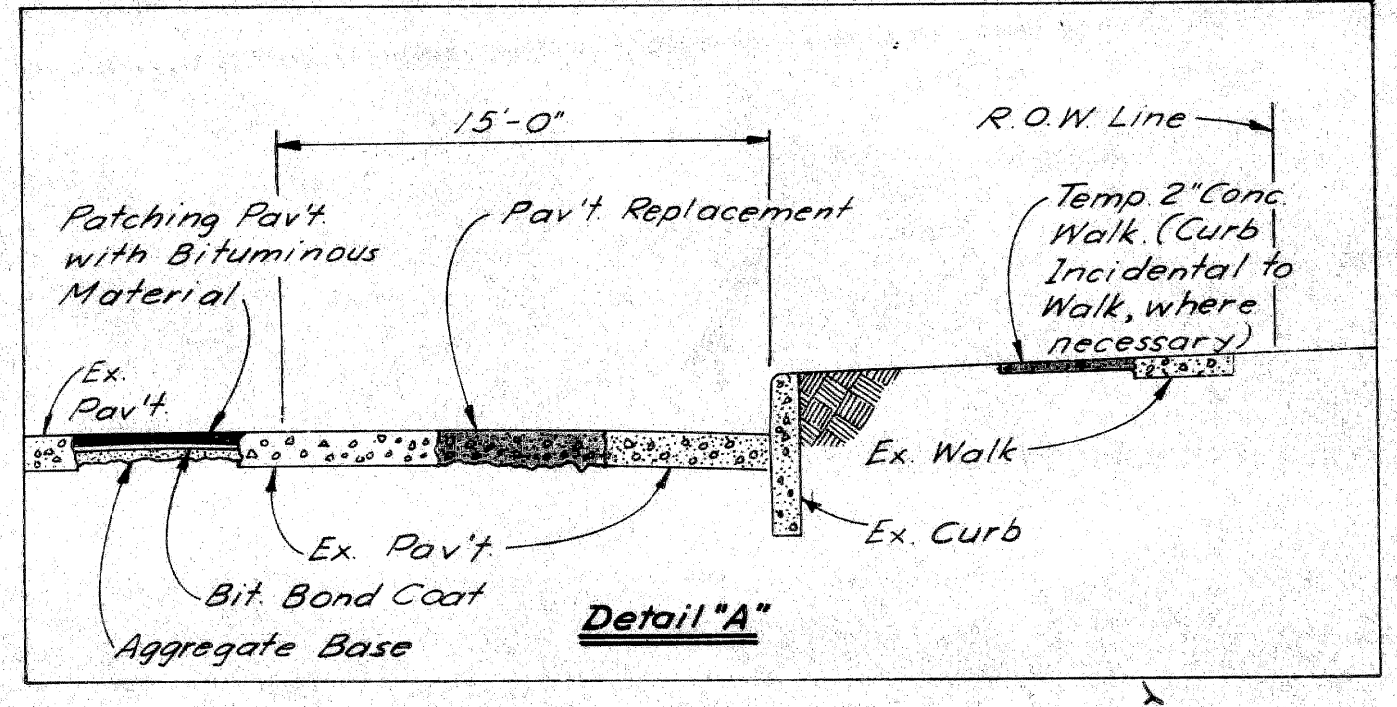
LEGEND

- Removing Curb
- Removing Sidewalk
- Replacing Sidewalk
- Removing Pavement
- Removing Old Pav't. (Patching) and Pav't. Replacement
- Removing Old Pav't. (Patching) and Patching Pav't. with Bit. Mat'l.
- Proposed Pavement
- Proposed Sidewalk
- Existing Foundation Wall
- Existing Concrete Slab
- Existing Foundation

- Notes:**
- For Typical Cross Sections of Embankment and Backfill. See Sh. # 6.
 - Existing Curb and Sidewalk Removed for Utility Alterations which required temporary replacement are included in the estimate quantities for this sheet.
 - The removal of various posts, poles, columns, and trees less than 8" diameter is incidental to the contract.
 - Removing Bituminous Surface not shown on this sheet.
 - Certain utility alterations are required within the limits of removal of entire pavement areas prior to their removal. These areas are required to be open for local traffic at all times. Therefore, quantities have been included for Removing Old Pavement (Patching), Pavement Replacement, and Patching Pavement with Bituminous Material.

ITEMS

	82195 B	82195 D
Removing Old Pavement	89 Sq. Yds.	619 Sq. Yds.
Removing Old Pavement (Patching)	446 Sq. Yds.	105 Sq. Yds.
Removing Sidewalk	108 Sq. Yds.	279 Sq. Yds.
Removing Curb	-	135 Lin. Ft.
Replacing Pavement	315 Sq. Yds.	-
Replacing Curb Detail 2A	10 Lin. Ft.	-
Replacing Sidewalk, 4" Conc.	35 Sq. Ft.	-
Replacing Sidewalk, Temp. 2" Conc.	835 Sq. Ft.	585 Sq. Ft.
Patching Pavement with Bituminous Material	13 Tons	13 Tons
Aggregate Base (L.M.)	33 Cu. Yds.	35 Cu. Yds.



PLANS PREPARED BY
 C. V. OR, DIVISION
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OF AGE
 BUREAU OF HIGHWAYS AND EXPRESSWAYS
 DESIGNER: S. D. BULLOCK 4-65
 CHECKER: P. A. CALTAGIANO 4-65
 C. HOOLING 4-65
 A. L. MAYER 4-65

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

FILE NO.	82195 B C13	STATE PROJECT	FEDERAL PROJECT	SHEET
NO. 300		82195	1-75-10753	10

Control Section	
82195 B	82195 D
Removing Trees 8"-12" Dia.	3 Each
Removing Trees 13"-24" Dia.	2 Each
Removing Trees 25"-36" Dia.	1 Each
Removing Old Pavement	1435 Sq. Yds.
Removing Sidewalk (Patching)	224 Sq. Yds.
Removing Sidewalk	36 Sq. Yds.
Removing Underground Storage Tanks Including Backfill	1 Each
Replacing Pavement	224 Sq. Yds.
Replacing Curb Detail 2A	5 Lin. Ft.
Replacing Sidewalk 4" Conc.	30 Sq. Ft.
Replacing Sidewalk Temp. 2" Conc.	30 Sq. Ft.

Notes:

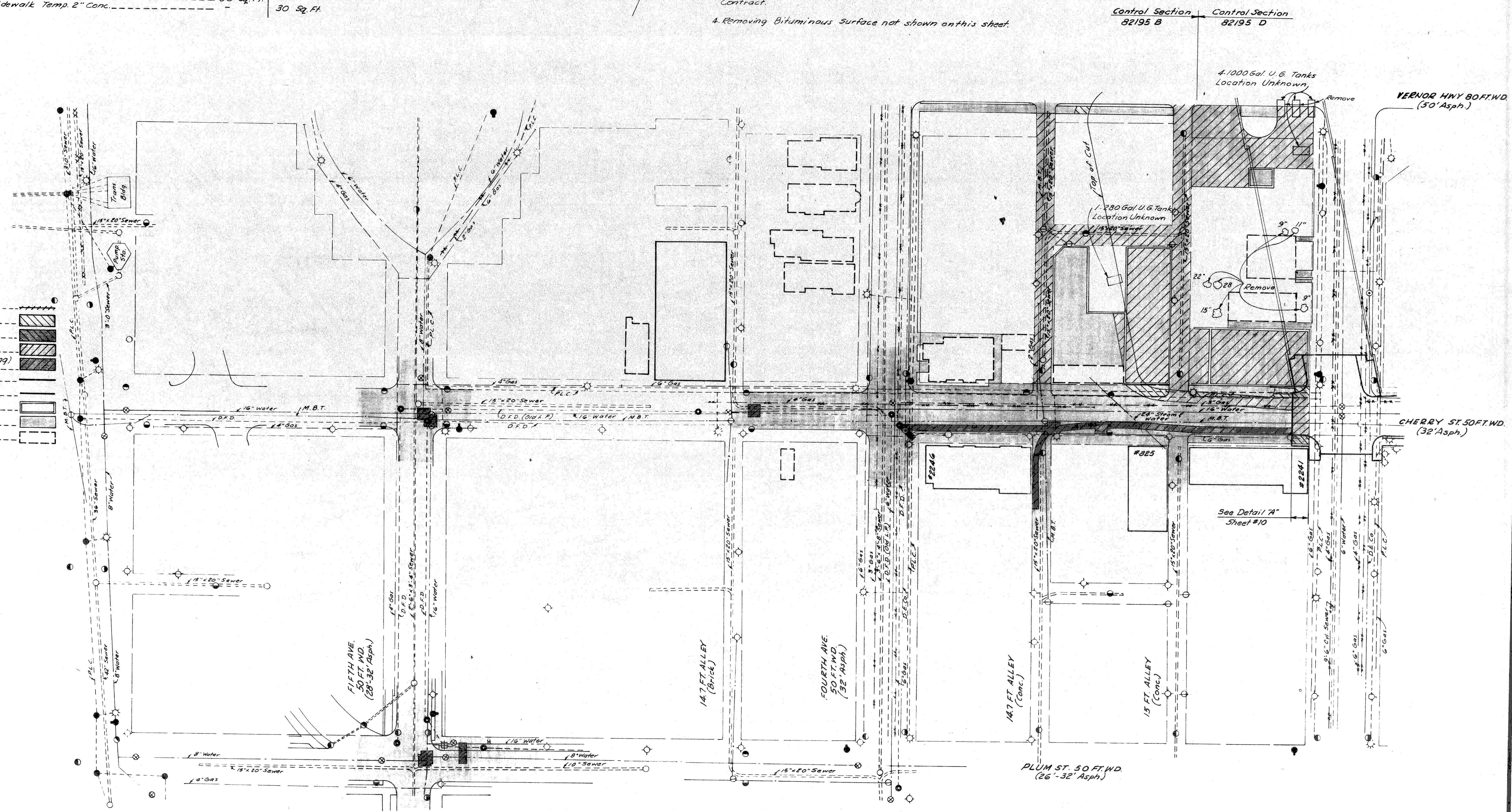
1. For Typical Cross Sections of Embankment and Backfill See Sh# 6
2. Existing Curb and Sidewalk Removed for Utility Alterations which required temporary replacement are included in the estimate quantities for this sheet.
3. The removal of various posts, poles, columns, and trees less than 8" diameter is incidental to the Contract.
4. Removing Bituminous Surface not shown on this sheet.

5. Certain utility alterations are required within the limits of removal of entire pavement areas prior to their removal. These areas are required to be open for local traffic at all times. Therefore, quantities have been included for Removing Old Pavement (Patching), Pavement Replacement, and Patching Pavement with Bituminous Material.

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.				
ROUTE	PROJECT	COUNTY	CITY	SHEET NO.	TOTAL SHEETS
82195	Wayne	Detroit		11	

LEGEND

Removing Curb	-----
Removing Sidewalk	-----
Replacing Sidewalk	-----
Removing Pavement	-----
Removing Old Pavt. (Patching) and Pavt. Replacement	-----
Proposed Pavement	-----
Proposed Sidewalk	-----
Existing Foundation Wall	-----
Existing Concrete Slab	-----
Existing Basement	-----



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

DESIGNED BY: G.P. MILLS
 DRAWN BY: F.M. CALABRANO
 CHECKED BY: C. HOPKINS
 APPROVED BY: C. HOPKINS
 BUREAU OF HIGHWAYS AND STREETS

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.

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

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

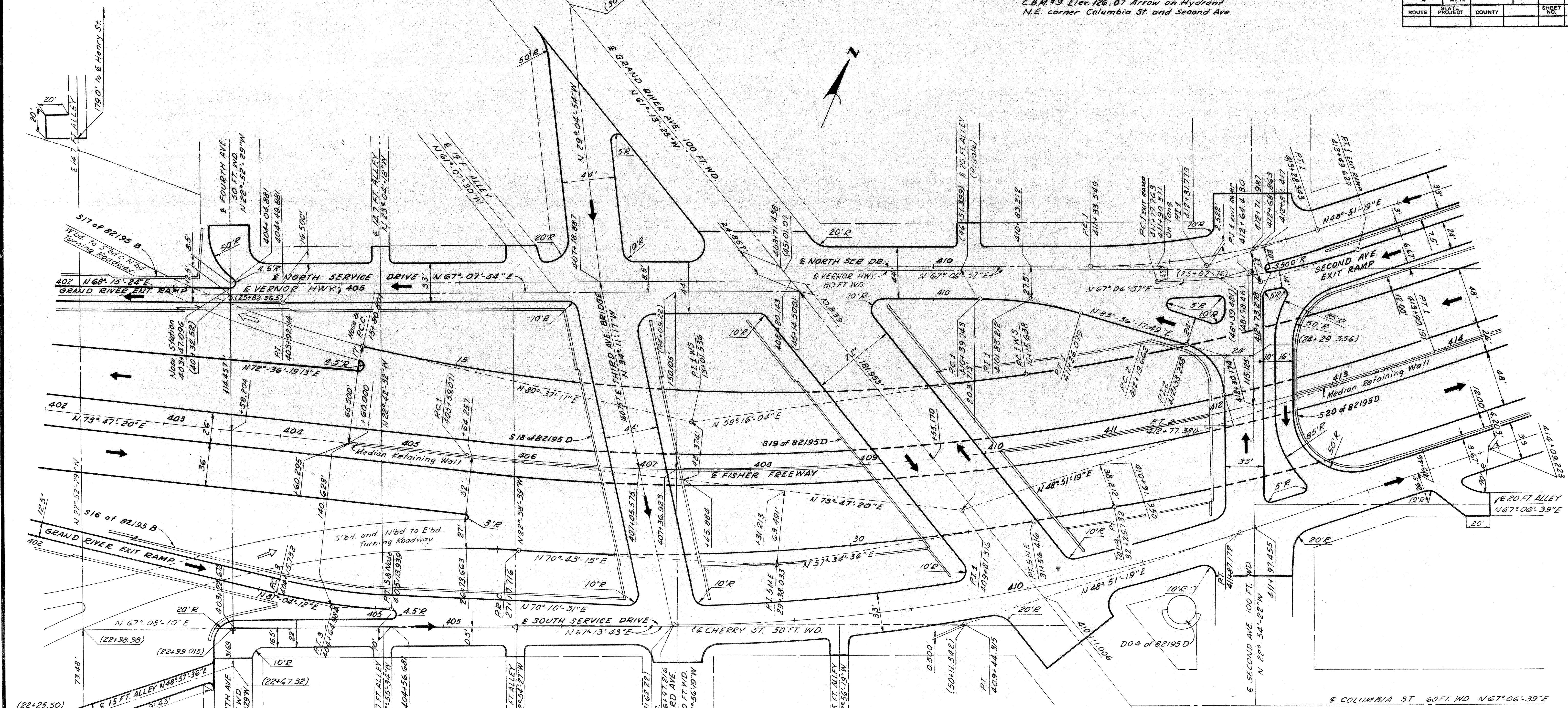
C.B.M.#6 Elev. 122.64 Arrow on Hydrant.
N.W. corner Plum St. and Fourth Ave.

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.

R.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		8	

R.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		8	



PLAN
Scale: 1"=40'

GRAND RIVER EXIT RAMP
Curve 3
Δ: 10°-53'-41"
D: 11°-05'-37.04"
R: 516.475'
T: 49.252'
L: 98.207'
E: 2.343'
PC: 404+15.732
PI: 404+64.984
PT: 405+13.939

CURVE DATA N'BD+S'BD T.R.
Curve 1 WS
Δ: 21°-21'-07"
D: 3°-46'-40.86"
R: 1516.557'
T: 285.898'
L: 565.163'
E: 26.713'
PC: 10+15.638
PI: 18+01.536
PT: 15+80.801

CURVE DATA N'BD+E'BD T.R.
Curve 5 NE
Δ: 13°-08'-39"
D: 2°-59'-46.19"
R: 1912.904'
T: 220.317'
L: 439.700'
E: 12.650'
PC: 27+17.716
PI: 29+38.033
PT: 31+56.416

CURVE DATA MAIN ROW.
Curve 1
Δ: 24°-56'-01"
D: 3°-00'-00"
R: 1909.859'
T: 422.245'
L: 831.120'
E: 46.120'
PC: 405+59.071
PI: 409+81.316
PT: 413+90.191

CURVE DATA SOUTH SER. DR.
Curve between Third & Second
Δ: 13°-22'-24"
D: 3°-45'-00"
R: 1327.887'
T: 247.029'
L: 489.956'
E: 19.852'
PC: 406+97.216
PI: 409+44.315
PT: 411+87.172

CURVE DATA NORTH SERVICE DRIVE
Curve @ Second Ave.
Δ: 18°-15'-38"
D: 9°-22'-27.51"
R: 611.200'
T: 98.230'
L: 194.794'
E: 78.433'
PC: 411+33.549
PI: 412+31.779
PT: 413+28.343

SECOND AVE. EXIT RAMP
Curve 1 (South Edge)
Δ: 16°-29'-20.49"
D: 19°-05'-54.94"
R: 300.000'
T: 43.463'
L: 86.336'
E: 3.133'
PC: 410+39.743
PI: 410+83.212
PT: 411+26.079

SECOND AVE. EXIT RAMP
Curve 2 (South Edge)
Δ: 73°-29'-20.51"
D: 127°-19'-26.24"
R: 45.000'
T: 33.596'
L: 57.716'
E: 11.133'
PC: 412+19.662
PI: 412+53.258
PT: 412+77.380

SECOND AVE. EXIT RAMP
Curve 1
Δ: 18°-15'-38"
D: 10°-37'-30"
R: 539.254'
T: 86.667'
L: 171.864'
E: 6.920'
PC: 411+77.763
PI: 412+64.430
PT: 413+49.627

Notes:
All street returns 15'R unless otherwise noted.
All alley returns 4'R unless otherwise noted.
Stations shown in brackets () thus, refer to survey stationing.
Bench Marks are based on City of Detroit datum.

ALIGNMENT OF FISHER FREEWAY
STA. 402+00 TO STA. 414+00

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

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 OR PROFILE SHEETS.

FINE GRADING AND CLEANUP
CONTROL SECTION 82195D

	STATIONS
EASTBOUND FISHER	
STA. 405 + 41 to 413 + 25	7.84
WESTBOUND FISHER	
STA. 405 + 41 to 413 + 25	7.84
NORTH SERVICE DRIVE	
STA. 406 + 73 to 413 + 06	6.33
THIRD AVE. AND BRIDGE APPROACHES	2.68
SOUTH SERVICE DRIVE	
STA. 406 + 57 to 413 + 46	6.39
EASTBOUND GRAND RIVER DETOUR	
STA. 23 + 61 to 24 + 32	0.71
STA. 25 + 01.50 to 27 + 62	2.61
STA. 29 + 06 to 29 + 67	0.62
THIRD AVENUE DETOUR	
STA. 25 + 50 to 26 + 32	0.82
WESTBOUND GRAND RIVER DETOUR	
STA. 23 + 42 to 26 + 30	3.48
SECOND AVENUE DETOUR	
STA. 25 + 33 to 26 + 35	1.02
TOTAL	40.84

	CONTROL SECTION 82195B	SECTION 82195D
CLASS "A" SEEDING	-	0.2 ACRES
R/T SEEDING	-	0.2 ACRES
CHEMICAL FERTILIZER	-	124 POUNDS
MAINTAINING TRAFFIC	LUMP SUM	LUMP SUM
TIMBER CURB & SNOW FENCE, FURNISH & INSTALL	100 LFT.	100 LFT.
TIMBER CURB & SNOW FENCE, RELOCATE	100 LFT.	100 LFT.
TIMBER CURB & SNOW FENCE, REMOVE	100 LFT.	100 LFT.
WATER	-	INCIDENTAL
CALCIUM CHLORIDE	-	INCIDENTAL

THE FOLLOWING ITEMS ARE ESTIMATED FOR THE ENTIRE PROJECT TO CORRECT POSSIBLE UNSTABLE SUBGRADE CONDITIONS WHERE DESIGNATED BY THE ENGINEER.

CONTROL SECTION 82195D

6" BANK DRAIN (INCLUDING POROUS MATERIAL GRADE "A" & POROUS MATERIAL GRADE "B" BACKFILL)	75 LIN. FT.
6" CLASS "A" SEWER FOR BANK DRAINS (INCLUDING SELECTED EXCAVATED MATERIAL BACKFILL)	50 LIN. FT.
GRANULAR BLANKET	75 CU. YDS.
SUBGRADE UNDERCUTTING	500 CU. YDS.
Waste	500 Cu. Yds.

S.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	7	

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 1" 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

NOTES & SPECIAL PROVISIONS

FILE NO. 82195B	STATE PROJECT 82195	FISCAL YEAR 1962	SHEET NO. 7
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