

BOARD OF WAYNE COUNTY ROAD COMMISSIONERS

DETROIT, MICHIGAN
 PHILIP J. NEUDECK
 WILLIAM E. KREGER
 MICHAEL BERRY

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	Joints, Integral Straight Curb Type 2,
	Concrete Curb Straight Type 1 & Type 2
C-17-1E	Concrete Sidewalk, Steel Beam Guard Rail
	Concrete Sidewalk, Steel Beam Guard Rail
	Curb Return Joining Existing Pavement
C-17-1F	Joint Layout
E-6-A-56	MDSH Standard Plan for Barricades (Sheet 2)

GENERAL NOTE

Except where otherwise indicated on these Plans or in the Proposal and Supplemental Specifications contained therein all materials and workmanship shall be in accordance with the Board of County Road Commissioners of the County of Wayne General Specifications for the Construction of Roads, Bridges and other Structures, 1965 Edition.

The Design of this Structure is based on the A.A.S.H.O. Standard Specifications for Highway Bridges, HS 20-44 and Special Military Loading.

The character of all materials and the extent thereof as shown by borings has been obtained by methods and from sources believed to be reliable. The exactness of this information is however in no case guaranteed. Boring reports are on file in the office of the Wayne County Road Commission, 7th Floor City-County Building, Detroit, Michigan, and are available for inspection.

The Contractor shall contact the Utility Companies regarding their facilities prior to starting work.

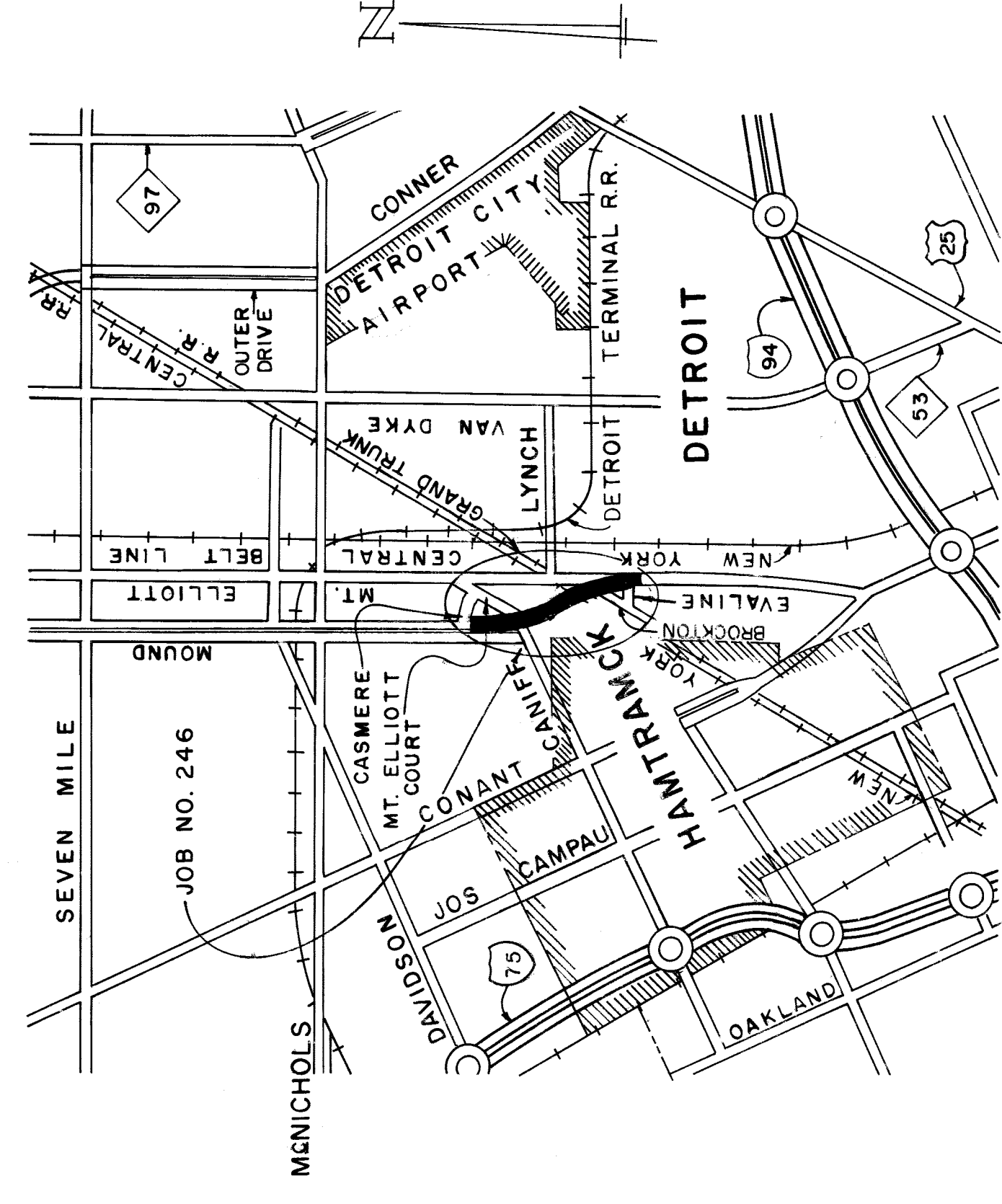
All exposed concrete corners shown square on the plans shall be bevelled with $\frac{3}{4}$ " triangular moldings, except as otherwise noted.

PLANS OF PROPOSED MT. ELLIOTT-MOUND ROAD GRADE SEPARATION AT NEW YORK CENTRAL AND GRAND TRUNK RAILROADS (FROM EVALINE STREET TO CASMERE STREET)

WAYNE COUNTY JOB NO. 246
 CITY OF DETROIT
 WAYNE COUNTY

NOTE: FOR PURPOSES IN THESE PLANS ONLY, WHERE THE NAMES "NEW YORK CENTRAL" AND "NEW YORK CENTRAL RAILROAD" APPEAR, AND WHERE THE ABBREVIATION "NYC RR." APPEARS, IT SHALL BE UNDERSTOOD TO MEAN THE "PENNSYLVANIA NEW YORK CENTRAL TRANSPORTATION COMPANY".

Tracings F e d n Pa n g Des gn



PLC DETAILS

42-0271	Handholes
42-0272	No. 1 Brick Manholes
42-0273	Miscellaneous Duct Sections
42-0275	Handhole Frames & Covers
42-0276	Manhole Frame & Cover, Sewer Grate & Ring
43-0345	Foundation & Template for U.M. #401 Double 7 Gauge Standard (Anchor Base 15" Bolt Circle)
43-0346	Foundation & Template for U.M. #401 Single 11 Gauge Standard (Anchor Base 11" Bolt Circle)
43-0353	13 1/2" Diameter Bolt Circle Foundation For Aluminum Standards
43-0356	Traffic Signal Foundations for Octagon Base Pedestal, Controller & Mast Arm Standard

APPROVED *[Signature]*
 COUNTY HIGHWAY ENGINEER

HAZELET & ERDAL CONSULTING ENGINEERS

TITLE SHEET
 MOUNT ELLIOTT-MOUND RD
 GRADE SEPARATION

COUNTY JOB
 246
 SHEET NO.
 1

H & E FILE NO. 603

ITEM	UNIT	DATE	DESCRIPTION	UNIT	QUANTITY ESTIMATE	QUANTITY FINAL
Bridge and Retaining Walls						
Steel Sheet Piling Left in Place	Sq. Ft.	2,822				
Unclassified Excavation	Cu. Yd.	7,441				
Grade A (108 Gravel or 108 Slag) Concrete Substructure	Cu. Yd.	5,703				
Grade A (108 Gravel or 108 Slag) Concrete Superstructure	Cu. Yd.	3,271				
Grade A (108 Gravel or 108 Slag) White Concrete - Median Barrier	Cu. Yd.	204				
Protective Sealant Coating for Structural Concrete (Liquid Epoxy Resin Type)	Sq. Ft.	2,497				
Structural Steel - Finishing & Fabricating - A441 Measured Steel	Lbs.	3,500,000				
Structural Steel - Erection - A441 Modified Steel	Lbs.	3,500,000				
Galvanized Structural Steel - Fabrication and Erection - A36 Steel	Lbs.	13,556				
Shear Developers	L. S.	Lump Sum				
Deck Waterproofing	Sq. Yd.	13,095				
Heating & Housing Substructure Concrete	Cu. Yd.	5,299				
Steel Reinforcement	Lbs.	1,441,432				
Rubbed Surface Finish	Sq. Ft.	78,892				
Joint Waterproofing	Sq. Ft.	1,504				
Dampproofing	Sq. Ft.	17,494				
1" Joint Filler	Sq. Ft.	1,153				
1/2" Joint Filler	Sq. Ft.	647				
1/4" Joint Filler	Sq. Ft.	252				
Hot-Poured Rubber-Asphalt Type Filler	Lin. Ft.	4,310				
8" Copper Water-stop	Lbs.	343				
4" Copper Water-stop	Lbs.	1,140				
Structural Tile	Each	8,720				
Drain Casting Assemblies - Type A	Each	38				
Drain Casting Assemblies - Type B	Each	12				
3/8" Dia. Galvanized Expansion Bolts	Each	216				
Bridge Railing - Parapet Type	Lin. Ft.	4,357				
Anchoring Assemblies For Lamp Posts - Type A	Each	16				
Anchoring Assemblies for Lamp Posts - Type B	Each	7				
Handhole Frame and Cover	Each	25				
3" Fiber Ducts	Lin. Ft.	8,741				
Water-Reducing Retarding Admixture	Gals.	467				
Porous Backfill - Grade A (Compacted in place)	Cu. Yd.	1,446				
8" Perforated Pipe Under-drain	Lin. Ft.	1,209				
8" Cast Iron Pipe	Lin. Ft.	9				
Abutment Manholes	Each	4				
Galvanized Steel Pipe Railing	Lin. Ft.	148				
Galvanized Floor Grating (Stair Treads & Landings) - Fabrication and Erection	Sq. Ft.	691				
Fence on Structure and Retaining Walls	Lin. Ft.	1,080				
Fence on Stairway	Lin. Ft.	104				

PLAN EXTRAS

DATE 12-15-20

DATE

UNIT

DESCRIPTION

UNIT ESTIMATE

QUANTITY FINAL

HAZELET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD.
GRADE SEPARATION
BILL OF MATERIAL

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

MICHAEL BERRY
WILLIAM E. KREGER

STATE PROJECT
COUNTY JOB
246
SHEET NO.
2
ISSUE NO. 1
DATE 5-13-23

H&E FILE No. 603

APPROVED: *[Signature]*
SUPERVISOR OF STRUCTURES AND EXPRESSWAYS

APPROVED: *[Signature]*
CITY ENGINEER

BOARD LEADER
DRAWN BY: *[Signature]*
CHECKED BY: O. E. NEUDECK
CORRECTED BY: *[Signature]*
DATE: *[Date]*

REVISIONS

ITEM	UNIT	DATE	DESCRIPTION	QUANTITY	
				ESTIMATE	FINAL
Approaches & Misc.					
Earth Excavation	Cu. Yd			15,721	
Porous Backfill, Grade A. (Compacted in Place)	Cu. Yd			15,602	
Subbase (Compacted in Place)	Cu. Yd			6,827	
Removing Trees, 8"-12" dia	Each			8	
Removing Trees, 13"-24" dia	Each			2	
Removing Old Pavement	Sq. Yd			6,096	
Removing Sidewalk	Sq. Yd			1,988	
Removing Curb	Lin. Ft.			6,25	
Removing Bituminous Surface - Planer Method	Sq. Yd			1,860	
Removing Manhole	Each			1	
Abandoning Catch Basins	Each			12	
Removing Underground Storage Tanks	Each			3	
Removing Concrete Well	L.S.			Lump Sum	
Moving Wrought Iron Fence	Lin. Ft.			63	
Moving Fence	Lin. Ft.			158	
Moving Exist Gate Assembly	Each			1	
Removing Existing Fence	Lin. Ft.			1,437	
Removing D.S.R. Track Strip	Sq. Yd			464	
Abandoning 24" Sewer	L.S.			Lump Sum	
Adjusting Catch Basin Covers	Each			2	
Adjusting Manhole Covers	Each			10	
Adjusting Water Gate Well Manhole Covers	Each			11	
Reconstructing Manholes	Lin. Ft.			21	
Reconstructing Water Gate Well Manholes	Lin. Ft.			6	
Relocating Private Poles and Lines	L.S.			Lump Sum	
Manhole 10" with Special Cast Iron Trap	Each			1	
Manhole 20 AD	Each			3	
Drop Manhole 24 AD	Each			13	
Drop Manhole 24 AD with Special Cast Iron Trap	Each			1	
Special Manhole	Each			1	
Catch Basin A'	Each			4	
Catch Basin A' with 8" C.I. Trap	Each			14	
Catch Basin A' with 12" C.I. Trap	Each			2	
Catch Basin A' with Special C.I. Trap	Each			2	
Standard Inlet	Each			17	
12" dia. Sewer C-14X, Tr. A' 7' deep or less	Lin. Ft.			81	
12" dia. Sewer C-14X, Tr. B' 7' deep or less	Lin. Ft.			639	
12" dia. Sewer C-76, C.I. II Tr. A', 7' deep or less	Lin. Ft.			657	
12" dia. Sewer C-76, C.I. II Tr. B', 7' deep or less	Lin. Ft.			38	
15" dia. Sewer C-76, C.I. II Tr. A', 7' deep or less	Lin. Ft.			23	
15" dia. Sewer C-76, C.I. II Tr. B', 7' deep or less	Lin. Ft.			8	
12" dia. Sewer C-76, C.I. III Tr. A', 7' deep or less	Lin. Ft.			83	
12" dia. Sewer C-76, C.I. III Tr. A', 7' deep or less	Lin. Ft.			314	
15" dia. Sewer C-76, C.I. III Tr. A', 7' deep or less	Lin. Ft.			156	

HAZELET & ERDAL CONSULTING ENGINEERS MOUNT ELLIOTT-MOUND RD. GRADE SEPARATION BILL OF MATERIAL		COUNTY JOB 246
WAYNE COUNTY ROAD COMMISSIONERS BOARD OF DETROIT, MICHIGAN WILLIAM E. KREGER		STATE PROJECT ISSUE NO. 1 SHEET NO. 3 DATE: 5-13-66
APPROVED: <i>[Signature]</i> ENGINEER OF STRUCTURES AND EXPRESSWAYS APPROVED: <i>[Signature]</i> CHIEF ENGINEER		COUNTY FILE NO. 603

PLAN EXTRAS

ITEM	UNIT	DATE	DESCRIPTION	QUANTITY	
				ESTIMATE	FINAL
15" dia. Sewer C-76, CI III Tr. A, 71 to 10 deep	Lin. Ft.			200	
15" dia. Sewer C-76, CI III Tr. B, 71 to 10 deep	Lin. Ft.			700	
18" dia. Sewer C-76, CI III Tr. A, 71 to 10 deep	Lin. Ft.			68	
18" dia. Sewer C-76, CI III Tr. B, 71 to 10 deep	Lin. Ft.			30	
24" dia. Sewer C-76, CI III Tr. A, 101 to 16 deep	Lin. Ft.			90	
24" dia. Sewer C-76, CI III Tr. B, 101 to 16 deep	Lin. Ft.			110	
12" dia. Sewer C-76, CI III Tr. A, 7 deep or less	Lin. Ft.			1377	
12" dia. Sewer C-76, CI III Tr. B, 7 deep or less	Lin. Ft.			99	
18" dia. Sewer C-76, CI IV Tr. A, 71 to 10 deep	Lin. Ft.			509	
18" dia. Sewer C-76, CI IV Tr. B, 71 to 10 deep	Lin. Ft.			49	
18" dia. Sewer C-76, CI IV Tr. A, 101 to 16 deep	Lin. Ft.			106	
12" dia. Sewer C-76, CI IV Tr. A, 71 to 10 deep	Lin. Ft.			282	
24" dia. Sewer C-76, CI IV Tr. B, 251 deep & over in Place, 161 to 251 deep	Lin. Ft.			12	
24" dia. Sewer C-76, CI IV, locked in Place, 161 to 251 deep	Lin. Ft.			420	
12" dia. Sewer C-76, CI IV, locked in Place, 7 deep or less	Lin. Ft.			70	
6" Pipe Underdrain	Lin. Ft.			72	
12" Sewer Tops	Each			140	
24" Sewer Tops	Each			3	
	Each			4	
Concrete Pavement 8" Uniform with Integral Curb	Sq. Yd.			40	
Concrete Pavement 8" Uniform	Sq. Yd.			384	
Concrete Pavement 9" Uniform	Sq. Yd.			19162	
Concrete Pavement 9" Uniform with Integral Curb - Measured	Sq. Yd.			2387	
Concrete Pavement 9" (Patching)	Sq. Yd.			111	
Concrete Base Course 9" Uniform	Sq. Yd.			1473	
Pavement Reinforcement	Sq. Yd.			23022	
Concrete Curb, Straight (6" Face)	Lin. Ft.			4802	
Concrete Curb, Straight (6" Face) without Hook Bolts	Lin. Ft.			981	
Concrete Curb, Straight (7" Face)	Lin. Ft.			5834	
Concrete Curb, Straight (7" Face) without Hook Bolts	Lin. Ft.			1216	
Concrete Curb, Straight (10" Face)	Lin. Ft.			1153	
Retaining Curb	Lin. Ft.			210	
Concrete Barrier	Lin. Ft.			731	
Special Concrete Barrier	Lin. Ft.			180	
Deck Waterproofing	Sq. Yd.			646	
Aggregate Base Course (22'A)	Ton			614	
Calcium Chloride - Surface Applied	Ton			193	
4" Concrete Sidewalk	Sq. Ft.			14262	
5" Median Pavement	Sq. Ft.			7743	
7" Concrete Median	Sq. Yd.			69	
Bituminous Bond Coat, RS-1A	Gal.			303	
Bituminous Prime Coat, MC-1	Gal.			513	
Asphaltic Concrete Binder Course 2 1/2" Bituminous Gravel Aggregates	Ton			173	
Asphaltic Concrete Wearing Course 3/4" Mixture, Gravel Aggregates	Ton			582	

HAZELET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD.
GRADE SEPARATION
BILL OF MATERIAL

WAYNE COUNTY ROAD COMMISSIONERS

BOARD OF
DETROIT, MICHIGAN
WILLIAM E. KREGER

APPROVED
MICHAEL BERRY
DATE 5/2/06

APPROVED
PHILIP J. NEUDECK
DATE 4-28

REVISIONS

BRIDGE STATE PROJECT
ROAD
COUNTY JOB
246
SHEET NO.
4
DATE 5/2/06

PLAN EXTRAS

DATE

DESCRIPTION

UNIT

QUANTITY
ESTIMATE

FINAL

ITEM	UNIT	DESCRIPTION	UNIT	QUANTITY ESTIMATE	FINAL
Asphalt Concrete Binder Course	Ton			160	
Asphalt Concrete Wearing Course	Ton			551	
Asphalt Concrete Slag Aggregate Course	Ton			136	
Asphalt Concrete Slag Aggregate Course	Sq. Yd.			5299	
Preparing Existing Pavement	Lin. Ft.			688	
Steel Beam Guard Rail	Lin. Ft.			140	
Double Strand Pedestrian Chain	Lin. Ft.			1147	
48" Chain Link Fence	Lin. Ft.			1622	
72" Chain Link Fence (with 2 Strands Barbed Wire)	Lin. Ft.			45	
Temporary Woven Wire Fence	Each			1	
12" Single Swing Gate for 48" Chain Link Fence	Each			2	
16" Single Swing Gate for 48" Chain Link Fence	Each			2	
12" Double Swing Gate for 72" Chain Link Fence	Each			2	
Topsoil Furnished & Placed	Cu. Yd.			134	
Class A Seeding	Acre			2.1	
Mulching	Acre			2.1	
Sodding	Sq. Yd.			1183	
Maintaining Traffic	Lump Sum			350	
S-40 Barricade	Lin. Ft.			75	
S-40 Barricade - Modified	Lin. Ft.				
Non-Combination Post Fdn.	Each			28	
Combination Post Fdn.	Each			4	
Traffic Signal M.A. Post Fdn.	Each			6	
Traffic Signal Pedestal Post Foundation	Each			7	
Traffic Signal Strain Pole Foundation	Each			2	
1-3" Concrete Encased Type I Fiber Conduit	Lin. Ft.			1985	
1-3" Concrete Encased Type I Fiber Conduit (in Pavement)	Lin. Ft.			70	
2-3" Concrete Encased Type I Fiber Conduit	Lin. Ft.			210	
2-3" Concrete Encased Type I Fiber Conduit (in Pavement)	Lin. Ft.			120	
3-3" Concrete Encased Type I Fiber Conduit	Lin. Ft.			165	
3-3" Concrete Encased Type I Fiber Conduit (in Pavement)	Lin. Ft.			55	
4-3" Concrete Encased Type I Fiber Conduit	Lin. Ft.			110	
1-4" Concrete Encased Type I Fiber Conduit	Lin. Ft.			45	
Street Type D Handhole	Each			22	
Street Type S Handhole	Each			1	
Adjust. Exist. Manhole	Each			1	
Adjust. Exist. Manhole	Each			1	

HAZELET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD.
GRADE SEPARATION
BILL OF MATERIAL

WAYNE COUNTY ROAD COMMISSIONERS

DETROIT, MICHIGAN

PHILIP J. NEUDECK

MICHAEL BERRY

APPROVED
R. E. FOWLES
ENGINEER OF STRUCTURES AND EXPRESSWAYS

APPROVED
M. J. J. J. J.
ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS

REVISIONS

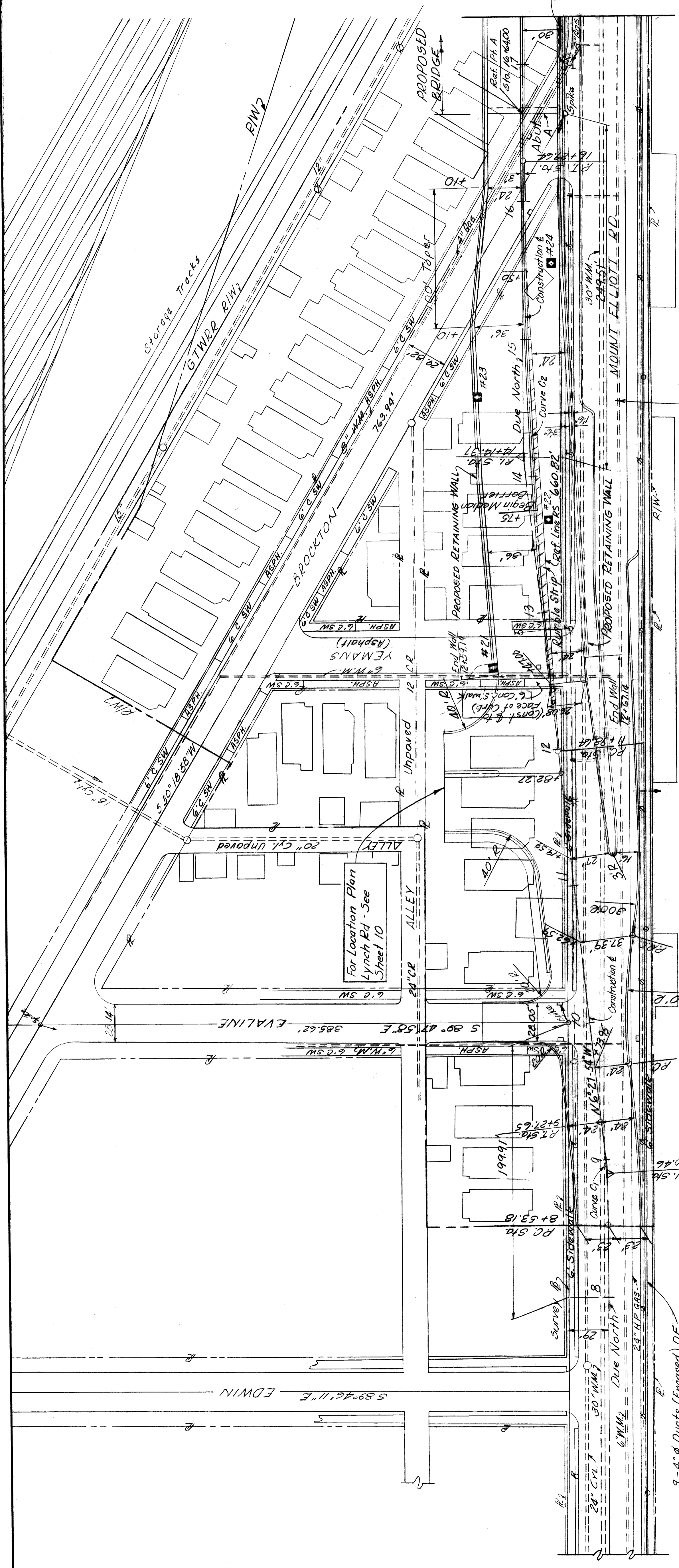
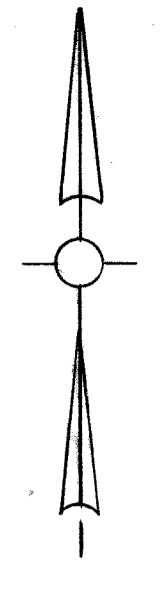
STATE PROJECT
STATE FILE
BRIDGE
ROAD

ISSUE NO. 1
DATE 5/13/52

COUNTY JOB
246
SHEET NO.
5

CURVE DATA C
 P1=576, B=90.46
 $\Delta=6^{\circ}27'54''$
 D=8'40" 522.2"
 R=660'
 L=74.47'
 T=77.28'
 E=105'

CURVE DATA C2
 P1=570, B=14.37
 $\Delta=6^{\circ}27'54''$
 D=1'30" 143.100"
 R=3819.72'
 L=431.00'
 T=215.73'
 E=6.09'

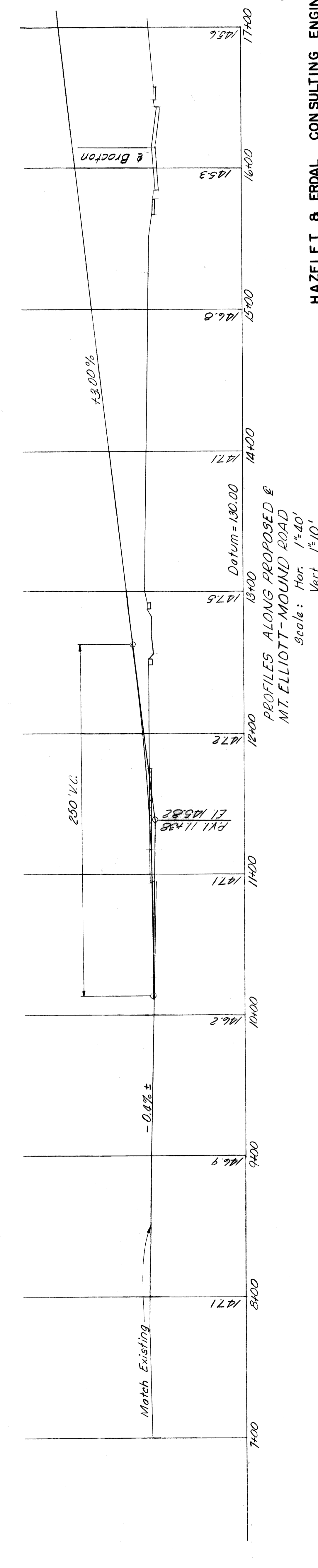
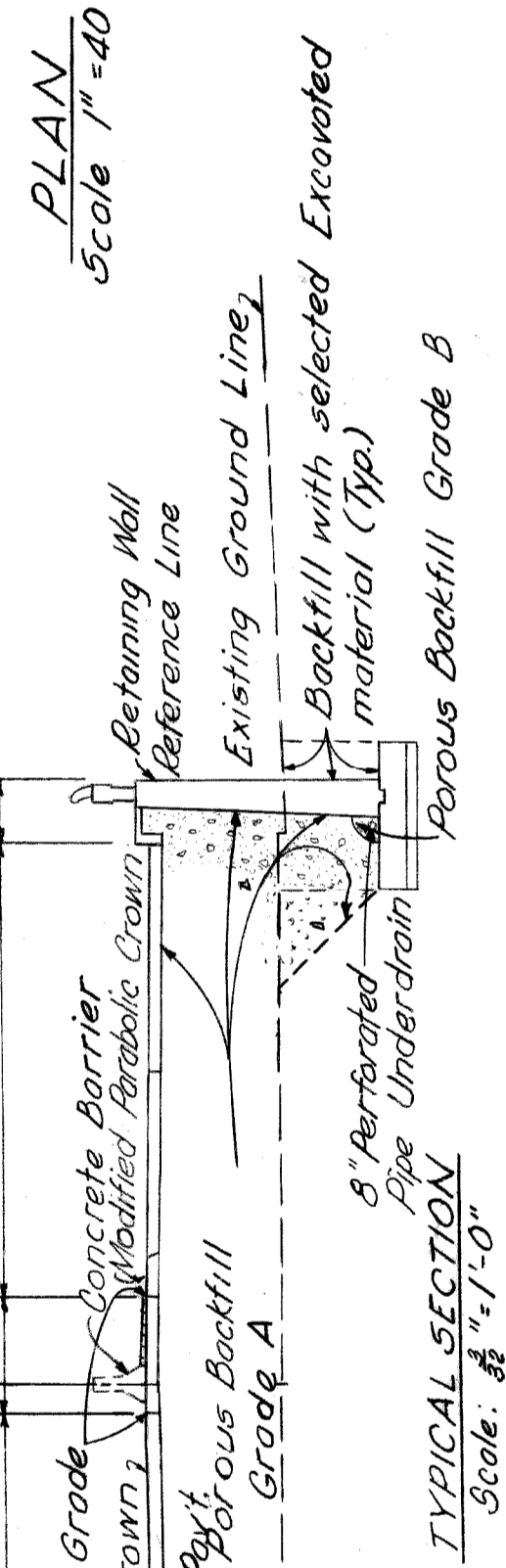


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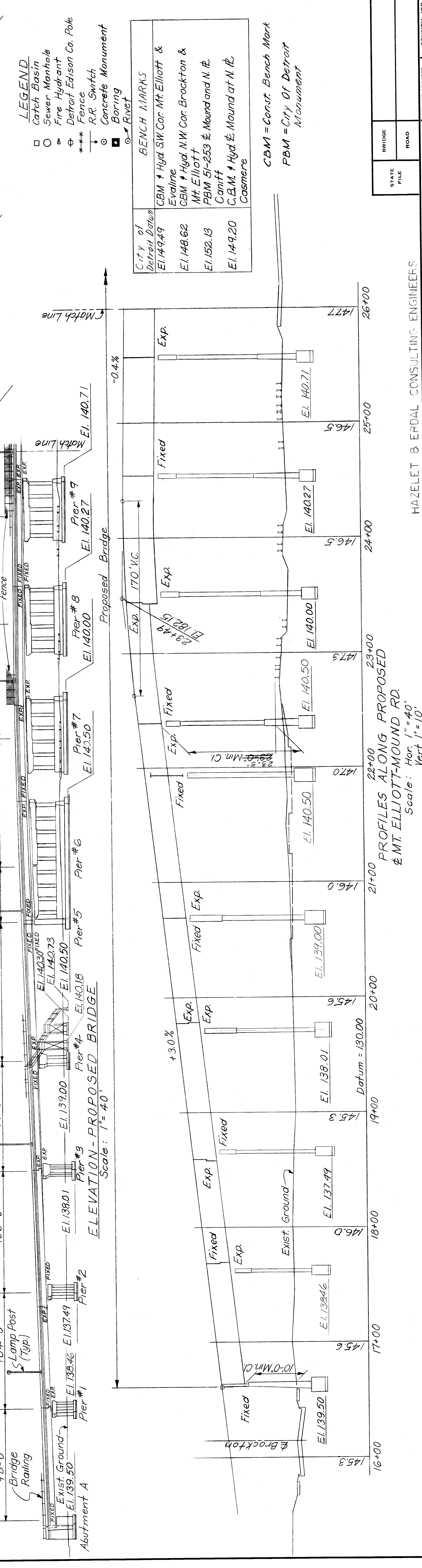
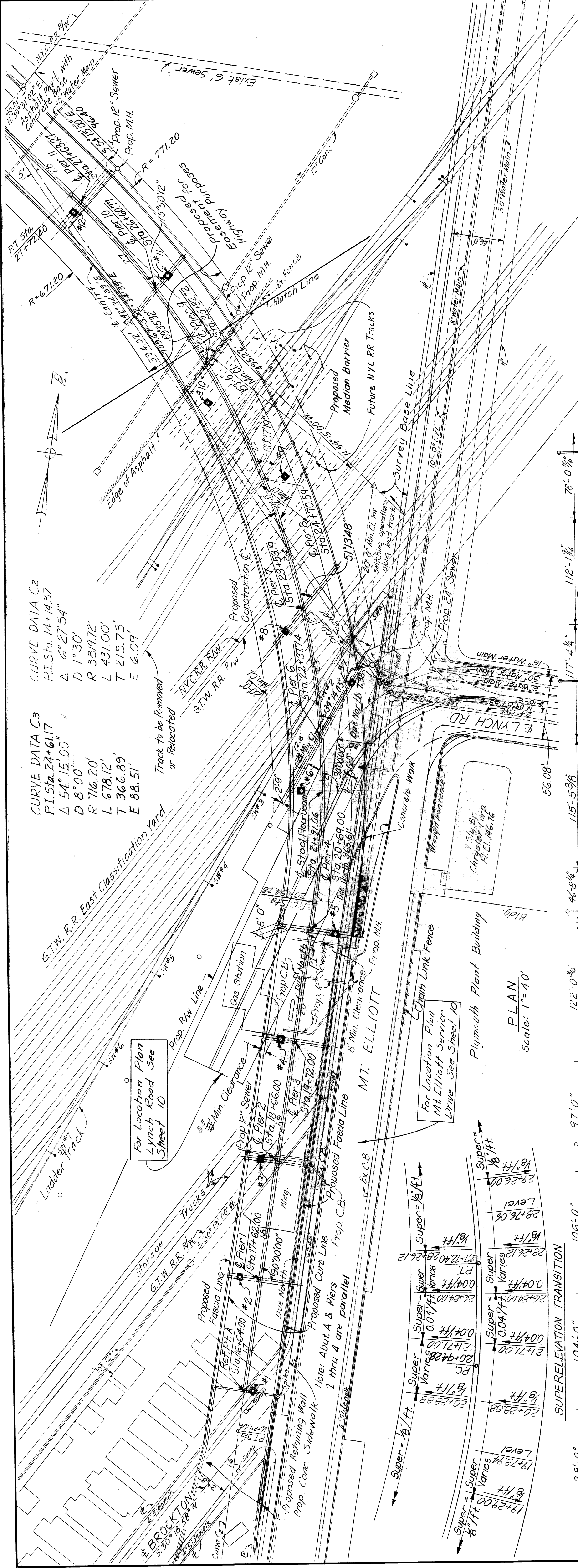
- Fire Hydrant
- Manhole
- Catch Basin
- * Public Lighting Commission Pole
- Fence
- ⊕ Detroit Edison Co. Pole
- ⊕ Michigan Bell Telephone Co. Pole
- ⊕ Barings

For Location Plan
 Mt. Elliott Service
 Drive See Sheet 10

PLAN
 Scale 1"=40'



STATE PROJECT	COUNTY JOB	BRIDGE	246
		ROAD	
STATE FILE	ISSUE NO.	H 8 E FILE No. 603	
	DATE	5-13-48	
HAZELET & ERDAL CONSULTING ENGINEERS		MOUNT ELLIOTT-MOUND RD.	
WAYNE COUNTY ROAD COMMISSIONERS		GRADE SEPARATION	
DETROIT, MICHIGAN		LOCATION PLAN	
PHILIP J. NEUDECK		MICHAEL BERRY	
APPROVED		APPROVED	
DRAWN BY C. BROWN		CHECKED BY	
DATE 6-21-47		DATE	
CONTR. M. J. J. J.		CONTR. M. J. J. J.	
ENGINEER OF DESIGN, STRUCTURES AND EXPANSIONS		ENGINEER OF DESIGN, STRUCTURES AND EXPANSIONS	
COUNTY ENGINEER		COUNTY ENGINEER	



WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN

HAZELET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD. GRADE SEPARATION LOCATION PLAN

BOARD OF ROAD COMMISSIONERS
 DETROIT, MICHIGAN
 PHILIP J. NEUBECK
 WILLIAM E. KREGER
 MICHAEL BERRY

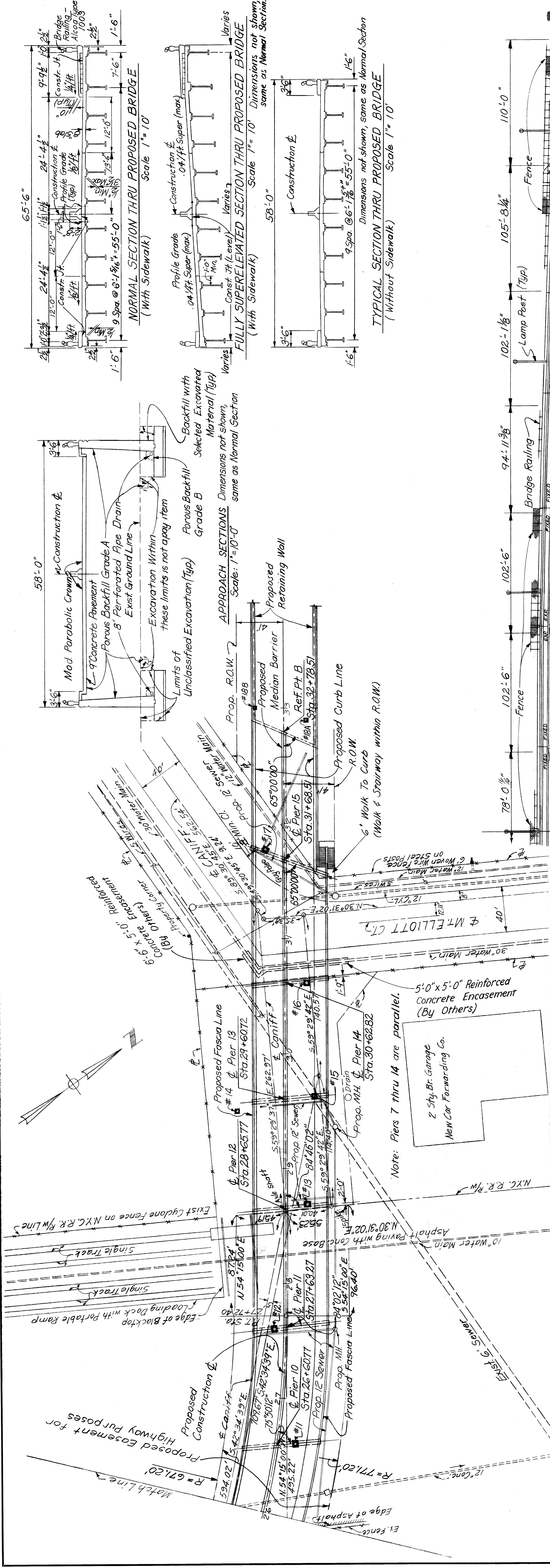
APPROVED
 OFFENBERGER
 DATE 1/1/81
 CHECKED BY J. E. M...
 DRAWN BY J. E. M...
 CORRECT

REVISIONS

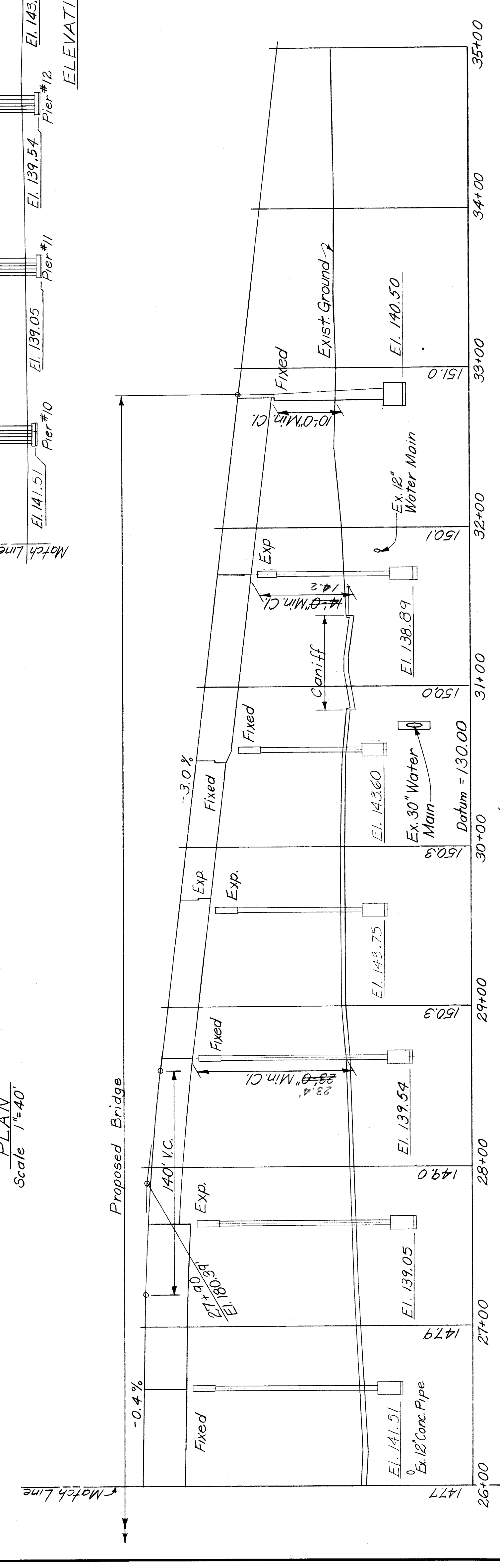
STATE PROJECT
 STATE FILE ROAD

COUNTY JOB
 246
 SHEET NO. 7
 ISSUE NO. 3
 DATE 11-68

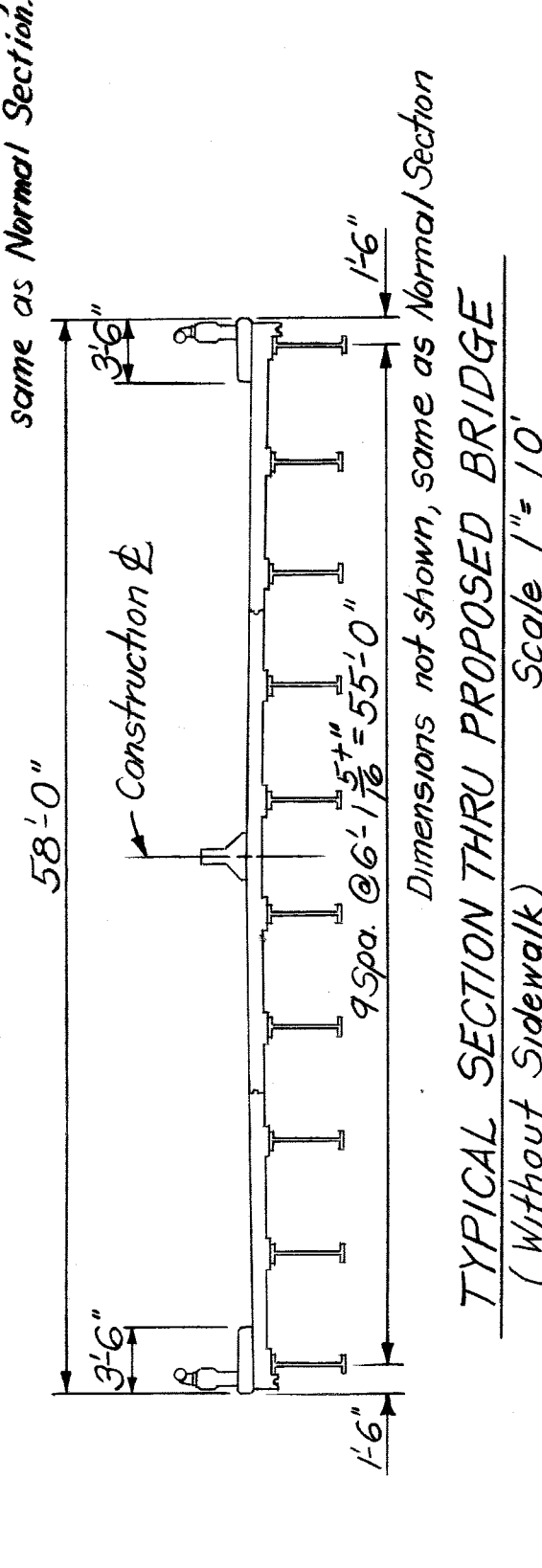
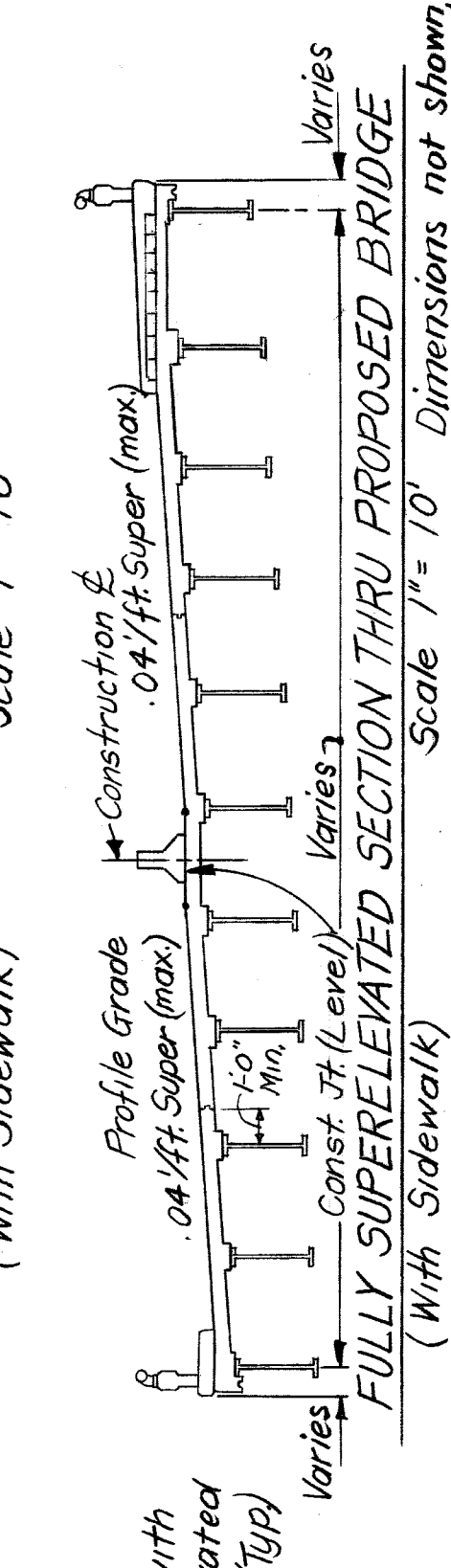
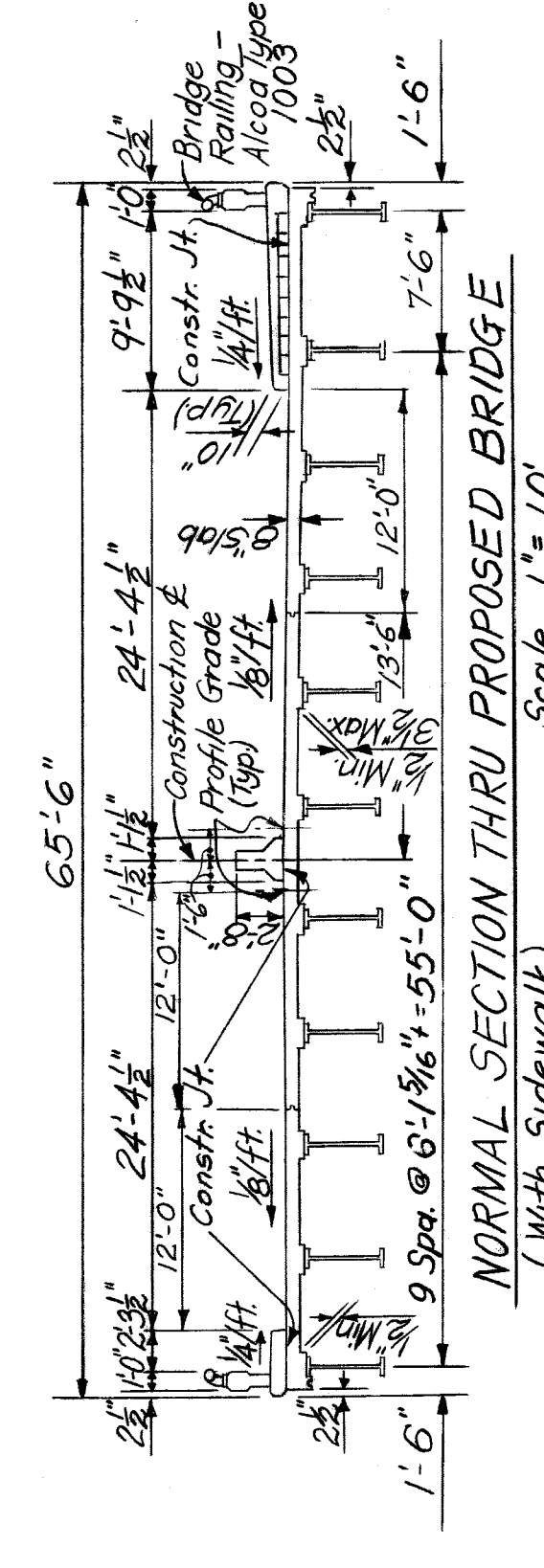
H&E FILE NO. 603



PLAN
Scale: 1"=40'



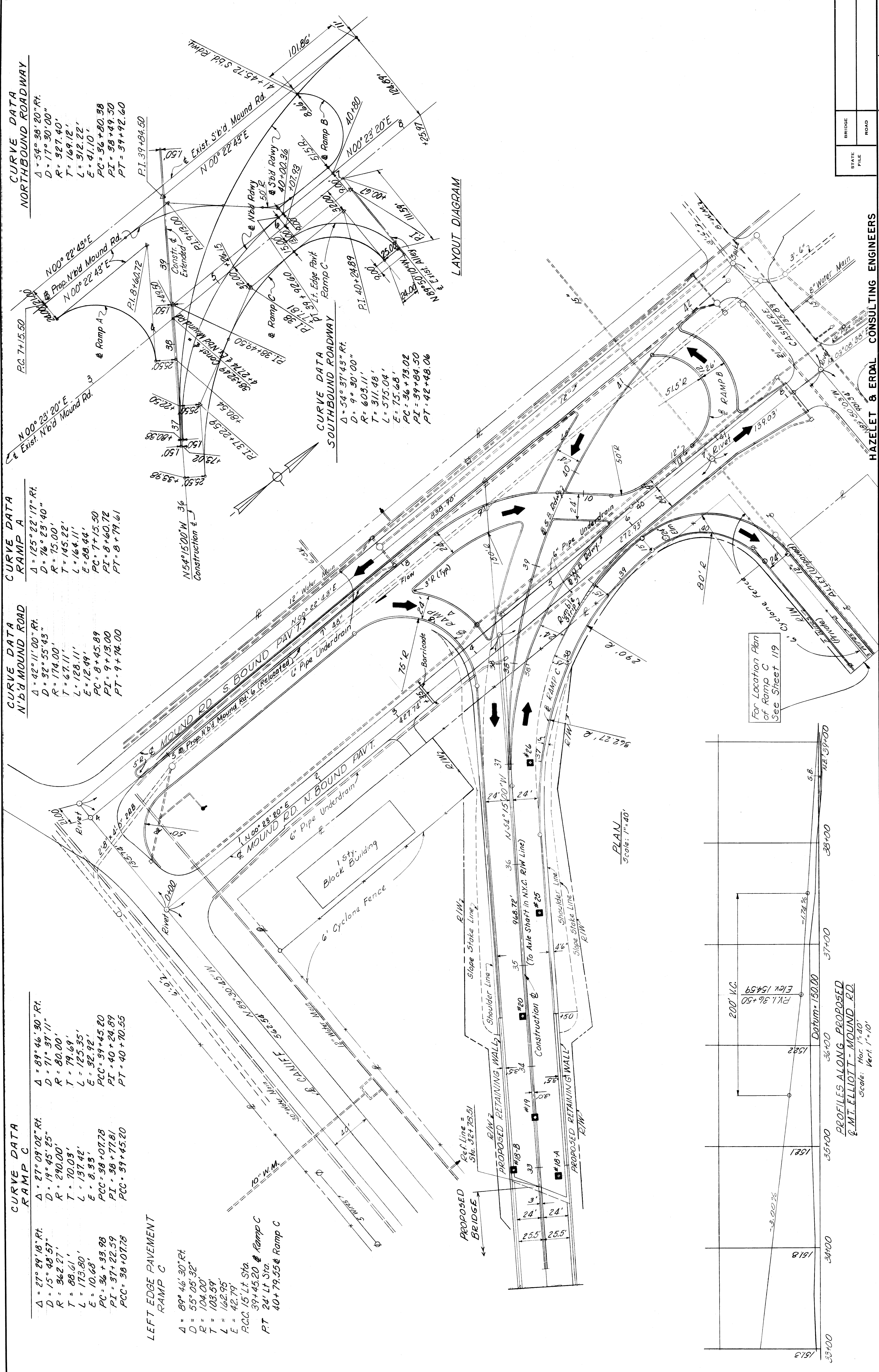
ELEVATION - PROPOSED BRIDGE
Scale: 1"=40'



GENERAL NOTES:
 Specifications: Board of Wayne County Road Commissioners, 1965 General Specifications for the Construction of Roads, Bridges, and other Miscellaneous Construction and Supplemental Specifications for Job #246.
 Design: A.A.S.H.O. 1965 Edition.
 Loading: HS20-44 and Special Military Loading.
 Datum: Elevations shown are based on City of Detroit Datum.
 To obtain W.C. Precise Datum (U.S.C.G.S.) Add 479.755

PROFILES ALONG PROPOSED
 & MT. ELLIOTT-MOUND RD.
 Scale: Hor: 1"=40'
 Vert: 1"=10'

STATE FILE		BRIDGE		ROAD		STATE PROJECT		COUNTY JOB	
MOUNT ELLIOTT-MOUND RD.		HAZELLET & ERDAL CONSULTING ENGINEERS		WAYNE COUNTY ROAD COMMISSIONERS		DETROIT, MICHIGAN		246	
MICHAEL BERRY		WILLIAM E. KREGER		PHILIP J. NEUDECK		APPROVED		DATE	
1-11-67		1-11-67		1-11-67		1-11-67		1-11-67	
OFFENSEMBERGER		OFFENSEMBERGER		OFFENSEMBERGER		OFFENSEMBERGER		OFFENSEMBERGER	
REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	
3-15-71 E.M.E.		3-15-71 E.M.E.		3-15-71 E.M.E.		3-15-71 E.M.E.		3-15-71 E.M.E.	



CURVE DATA
RAMP A
 $\Delta = 125^\circ 22' 17''$ Rt.
 $D = 74^\circ 23' 40''$
 $R = 75.00'$
 $T = 145.22'$
 $L = 164.11'$
 $E = 68.44'$
 $PC = 7+15.50$
 $PI = 8+60.72$
 $PT = 8+74.61$

CURVE DATA
N.W.B. MOUND ROAD
 $\Delta = 42^\circ 11' 00''$ Rt.
 $D = 32^\circ 55' 43''$
 $R = 174.00'$
 $T = 67.11'$
 $L = 128.11'$
 $E = 12.49'$
 $PC = 8+45.89$
 $PI = 9+13.00$
 $PT = 9+74.00$

CURVE DATA
S BOUND ROAD
 $\Delta = 42^\circ 11' 00''$ Rt.
 $D = 32^\circ 55' 43''$
 $R = 174.00'$
 $T = 67.11'$
 $L = 128.11'$
 $E = 12.49'$
 $PC = 8+45.89$
 $PI = 9+13.00$
 $PT = 9+74.00$

CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

CURVE DATA
RAMP C
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 $D = 15^\circ 48' 57''$
 $R = 362.27'$
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 $E = 10.68'$
 $PC = 36+33.98$
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CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

LEFT EDGE PAVEMENT
RAMP C
 $\Delta = 89^\circ 46' 30''$ Rt.
 $D = 55^\circ 05' 32''$
 $R = 104.00'$
 $T = 103.59'$
 $L = 162.95'$
 $E = 42.79'$
 $PCC = 38+07.78$
 $P.T. = 24' Lt. Sta. 39+45.20$
 $40+79.55$ Ramp C

CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

CURVE DATA
RAMP C
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CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
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CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
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CURVE DATA
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 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
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CURVE DATA
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 $\Delta = 27^\circ 09' 02''$ Rt.
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 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

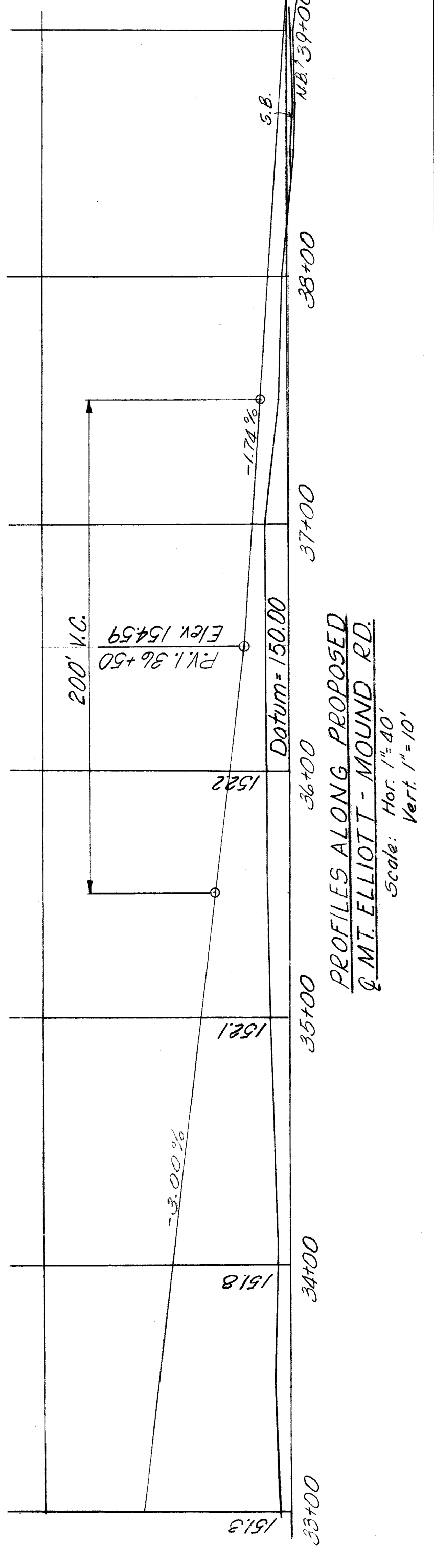
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RAMP C
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 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$

CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
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CURVE DATA
RAMP C
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 $PCC = 38+07.78$

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 $\Delta = 27^\circ 09' 02''$ Rt.
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 $R = 362.27'$
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 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
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CURVE DATA
RAMP C
 $\Delta = 27^\circ 09' 02''$ Rt.
 $D = 15^\circ 48' 57''$
 $R = 362.27'$
 $T = 88.61'$
 $L = 173.80'$
 $E = 10.68'$
 $PC = 36+33.98$
 $PI = 37+22.59$
 $PCC = 38+07.78$



LAYOUT DIAGRAM

PLAN
Scale: 1" = 40'

STATE FILE		BRIDGE		STATE PROJECT		COUNTY JOB	
ROAD				MOUNT ELLIOTT-MOUND RD.		246	
				GRADE SEPARATION		SHEET NO.	
				LOCATION PLAN		9	
				DATE: 5-13-68		X0107-9	
HAZELET & ERDAL CONSULTING ENGINEERS				WAYNE COUNTY ROAD COMMISSIONERS			
DETROIT, MICHIGAN				DETROIT, MICHIGAN			
WILLIAM E. KREGER				PHILIP J. NEUBECK			
MICHAEL BERRY				MICHAEL BERRY			
APPROVED				APPROVED			
C. Brown				C. Brown			
DATE				DATE			
CHECKED BY				CHECKED BY			
CORRECTED BY				CORRECTED BY			
M. Frisvold				M. Frisvold			
ENGINEER OF DESIGN, STRUCTURES AND EXPANSIVES				ENGINEER OF DESIGN, STRUCTURES AND EXPANSIVES			

Curve #1
 $\Delta = 107^{\circ}12'48.9''$
 $D = 36^{\circ}15'47.35''$
 $R = 158.000'$
 $T = 122.157'$
 $L = 214.359'$
 $E = 295.654'$
 $PC = 108.297'$
 $PT = 3428.97'$
 $PI = 1410.26'$

Curve #2
 $\Delta = 72^{\circ}45'09''$
 $D = 46^{\circ}54'12.22''$
 $R = 122.157'$
 $T = 89.984'$
 $L = 155.111'$
 $E = 29.365'$
 $PC = 14.14.61'$
 $PT = 1410.26'$

Curve #3
 $\Delta = 107^{\circ}12'48.9''$
 $D = 43^{\circ}55'09.78''$
 $R = 130.457'$
 $T = 176.991'$
 $L = 244.115'$
 $E = 89.416'$

Curve #4
 $\Delta = 107^{\circ}12'48.9''$
 $D = 31^{\circ}12'48.9''$
 $R = 195.1746.05''$
 $T = 125.573'$
 $L = 365.365'$
 $E = 134.051'$

Curve #5
 $\Delta = 1^{\circ}19'56''$
 $D = 5^{\circ}35'49.05''$
 $R = 1024.000'$
 $T = 11.905'$
 $L = 23.870'$
 $E = 0.069'$

Curve #6
 $\Delta = 1^{\circ}19'56''$
 $D = 5^{\circ}35'46.48''$
 $R = 1000.000'$
 $T = 11.626'$
 $L = 23.252'$
 $E = 0.068'$

Curve #7
 $\Delta = 72^{\circ}45'09''$
 $D = 37^{\circ}56'39.21''$
 $R = 151.000'$
 $T = 111.230'$
 $L = 191.735'$
 $E = 36.545'$

Curve #8
 $\Delta = 72^{\circ}45'09''$
 $D = 32^{\circ}40'07.24''$
 $R = 108.785'$
 $T = 80.134'$
 $L = 138.132'$
 $E = 26.328'$

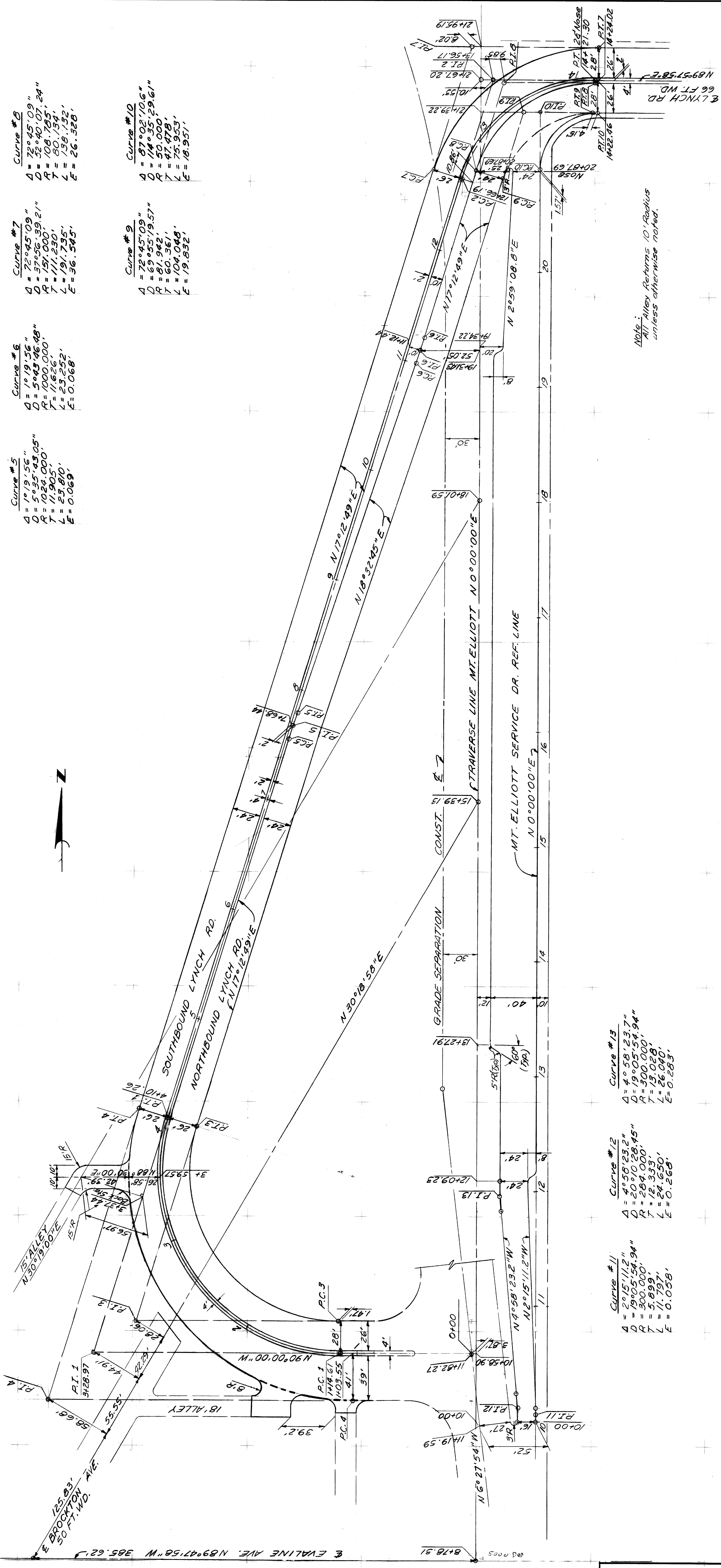
Curve #9
 $\Delta = 72^{\circ}45'09''$
 $D = 69^{\circ}55'19.57''$
 $R = 81.942'$
 $T = 60.361'$
 $L = 104.048'$
 $E = 19.832'$

Curve #10
 $\Delta = 87^{\circ}02'10.6''$
 $D = 114^{\circ}35'29.61''$
 $R = 50.000'$
 $T = 47.478'$
 $L = 75.953'$
 $E = 18.951'$

Curve #11
 $\Delta = 2^{\circ}15'11.2''$
 $D = 19^{\circ}05'54.94''$
 $R = 300.000'$
 $T = 5.899'$
 $L = 11.797'$
 $E = 0.058'$

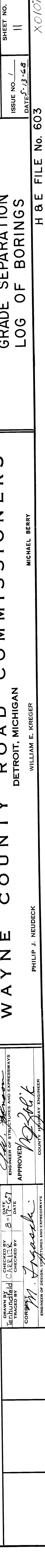
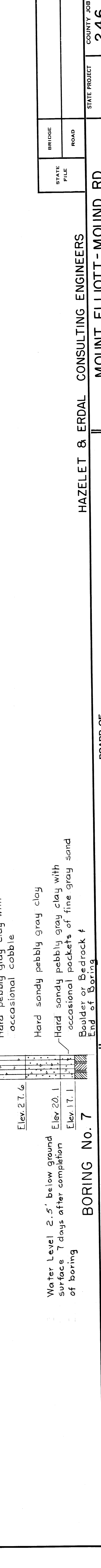
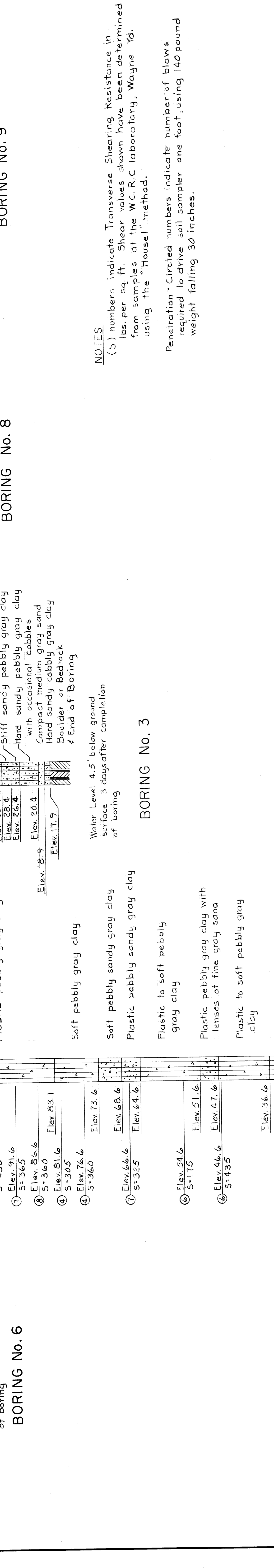
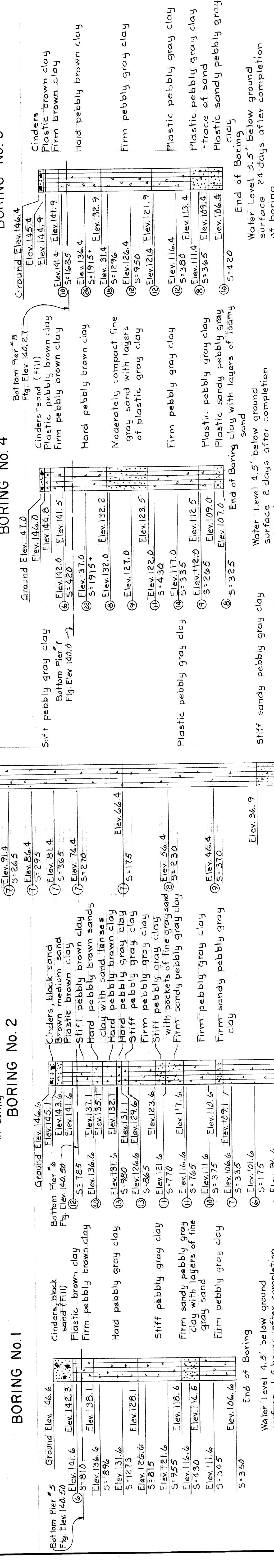
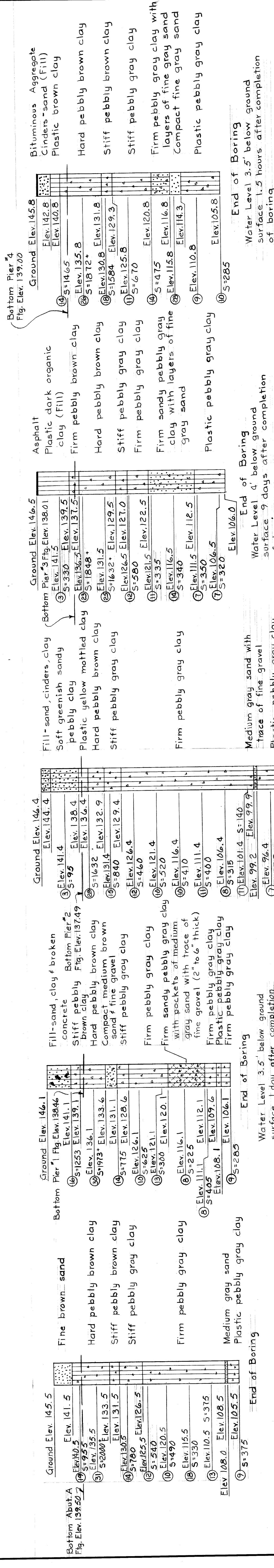
Curve #12
 $\Delta = 4^{\circ}58'23.2''$
 $D = 20^{\circ}10'28.45''$
 $R = 264.000'$
 $T = 12.333'$
 $L = 24.650'$
 $E = 0.268'$

Curve #13
 $\Delta = 4^{\circ}58'23.7''$
 $D = 19^{\circ}05'54.94''$
 $R = 300.000'$
 $T = 13.028'$
 $L = 26.040'$
 $E = 0.283'$



Note:
 All Alley Returns 10' Radius
 unless otherwise noted.

BRIDGE		STATE PROJECT		COUNTY JOB
ROAD		STATE FILE		246
ROAD		ROAD		SHEET NO.
ROAD		ROAD		10
ROAD		ROAD		DATE: 5-13-68
PLANS PREPARED BY CITY OF DETROIT				
WAYNE COUNTY ROAD COMMISSIONERS		MT. ELLIOTT - MOUND RD. GRADE SEPARATION LOCATION PLAN		
BOARD OF DETROIT, MICHIGAN		MICHAEL BERRY		
PHILIP J. NEUBECK		WILLIAM E. KREGER		
APPROVED		APPROVED		
ENGINEER OF DESIGN, STRUCTURES AND EXPANSIONS		ENGINEER OF STRUCTURES AND EXPANSIONS		
DATE		DATE		
CHECKED BY		CHECKED BY		
DRAWN BY		DRAWN BY		
CORRECTED BY		CORRECTED BY		
ENGINEER OF DESIGN, STRUCTURES AND EXPANSIONS		ENGINEER OF DESIGN, STRUCTURES AND EXPANSIONS		
CITY OF DETROIT		CITY OF DETROIT		
ROAD LEADER		ROAD LEADER		



NOTES
 (S) numbers indicate Transverse Shearing Resistance in lbs. per sq. ft. Shear values shown have been determined from samples at the W.C.R.C. laboratory, Wayne Yd. using the "House" method.

Penetration - Circled numbers indicate number of blows required to drive soil sampler one foot, using 140 pound weight falling 30 inches.

BRIDGE	STATE PROJECT	COUNTY JOB
ROAD		246
STATE FILE		SHEET NO.
ROAD		II
DATE: 5-13-48		ISSUE NO. /

HAZELET & ERDAL CONSULTING ENGINEERS

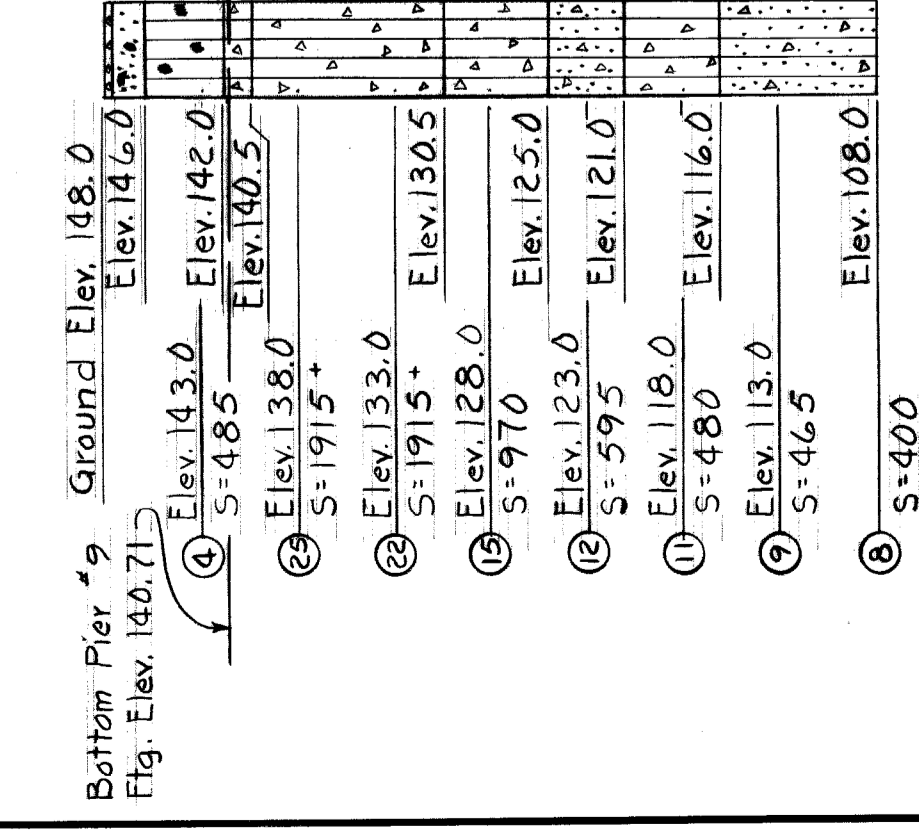
WAYNE COUNTY ROAD COMMISSIONERS

MOUNT ELLIOTT-MOUND RD.
 GRADE SEPARATION
 LOG OF BORINGS

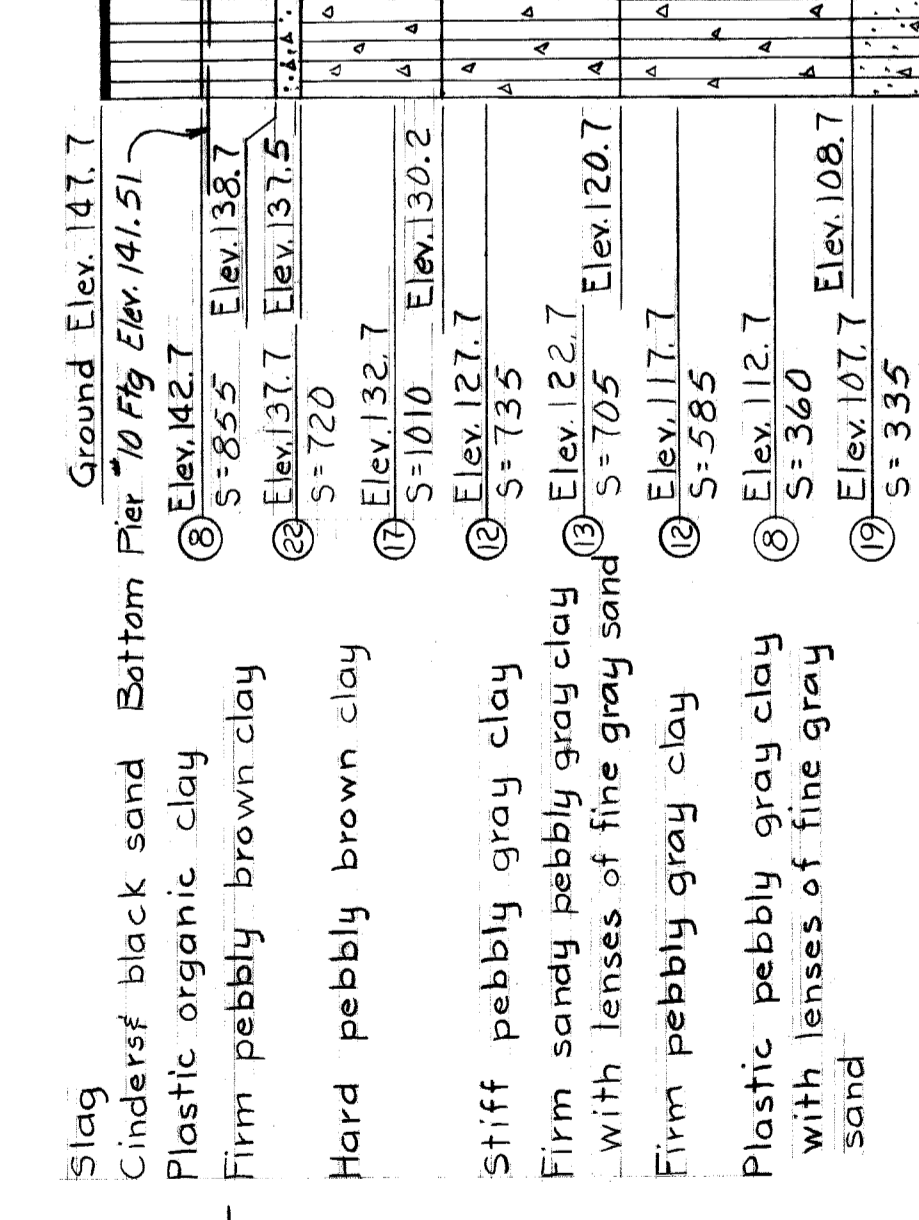
BOARD OF
 DETROIT, MICHIGAN
 WILLIAM E. KREGER
 PHILIP J. NEUDECK

MICHAEL BERRY

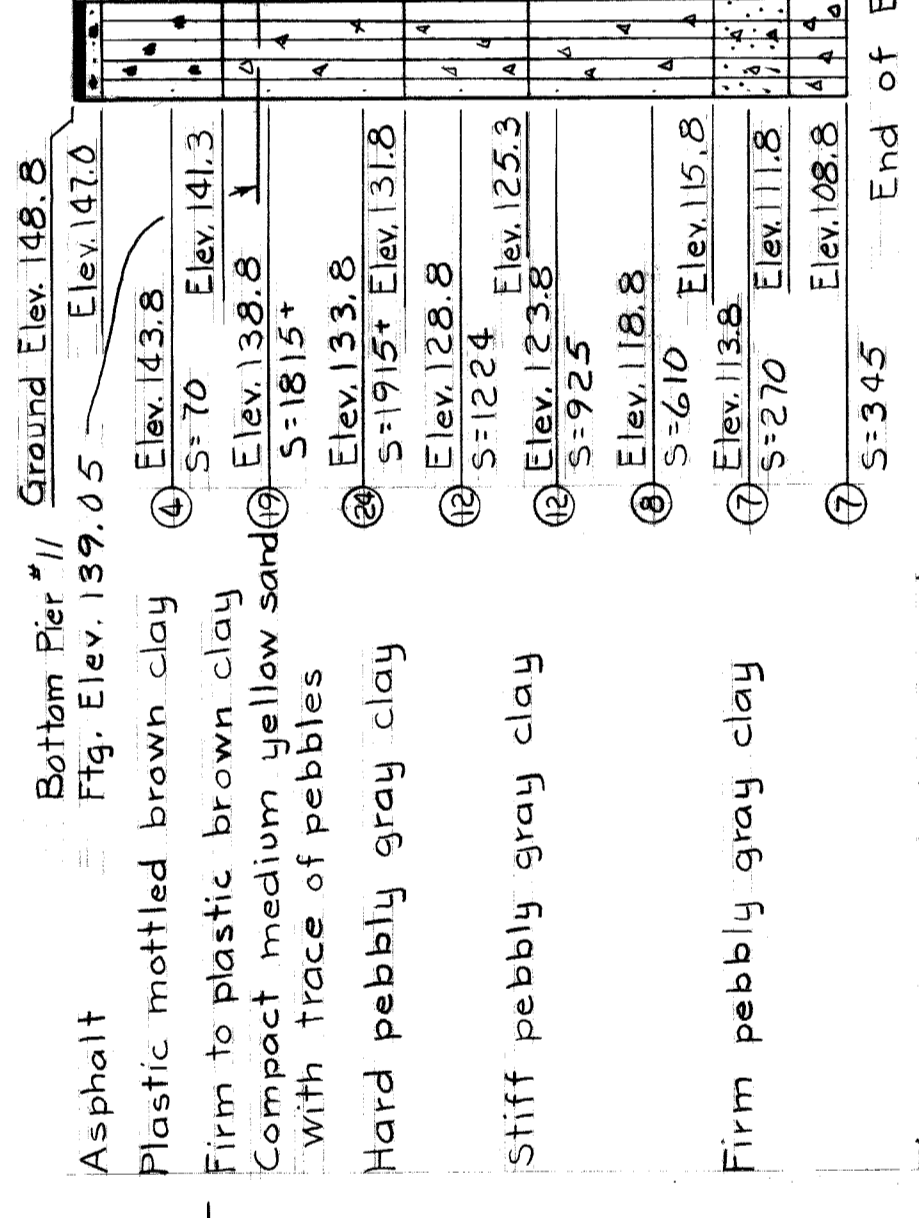
H & E FILE NO. 603



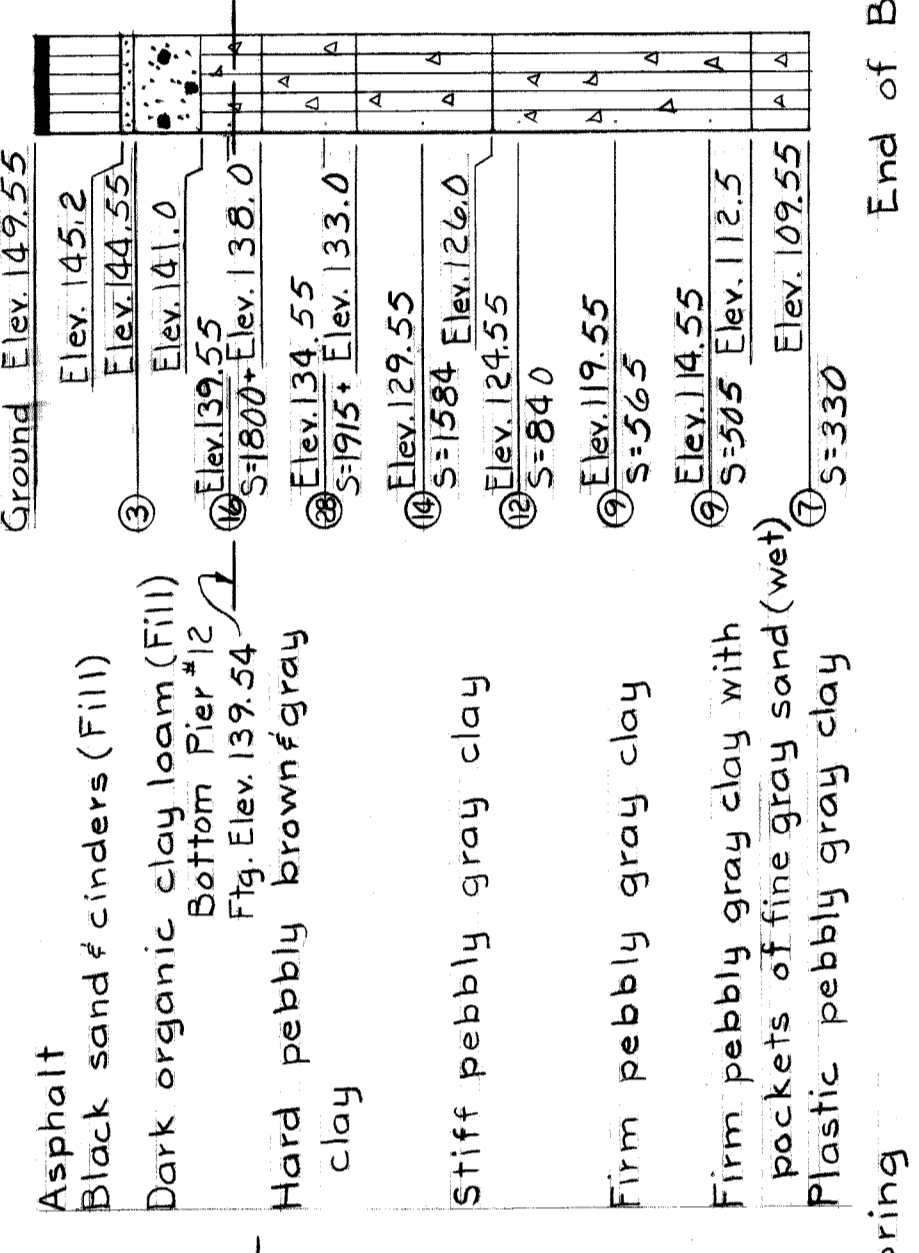
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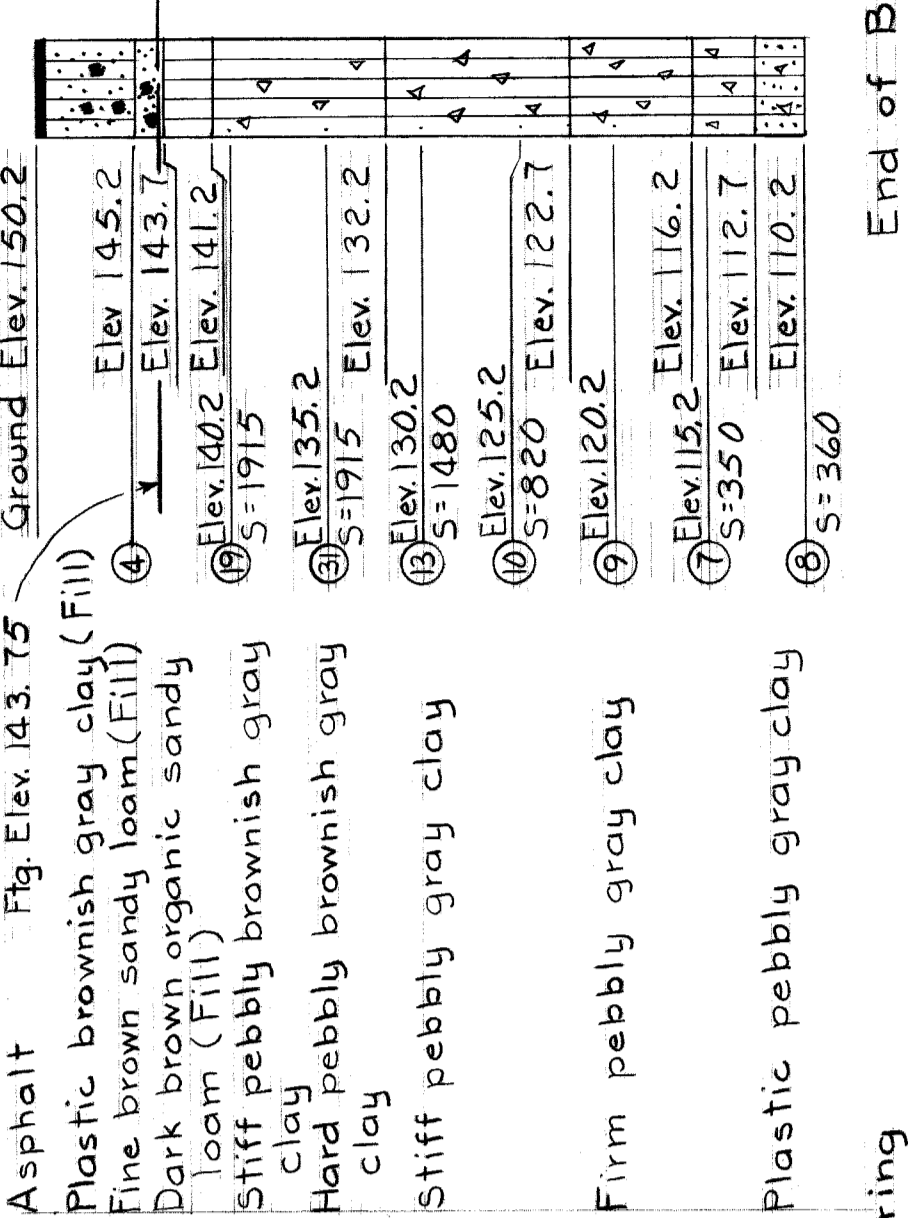
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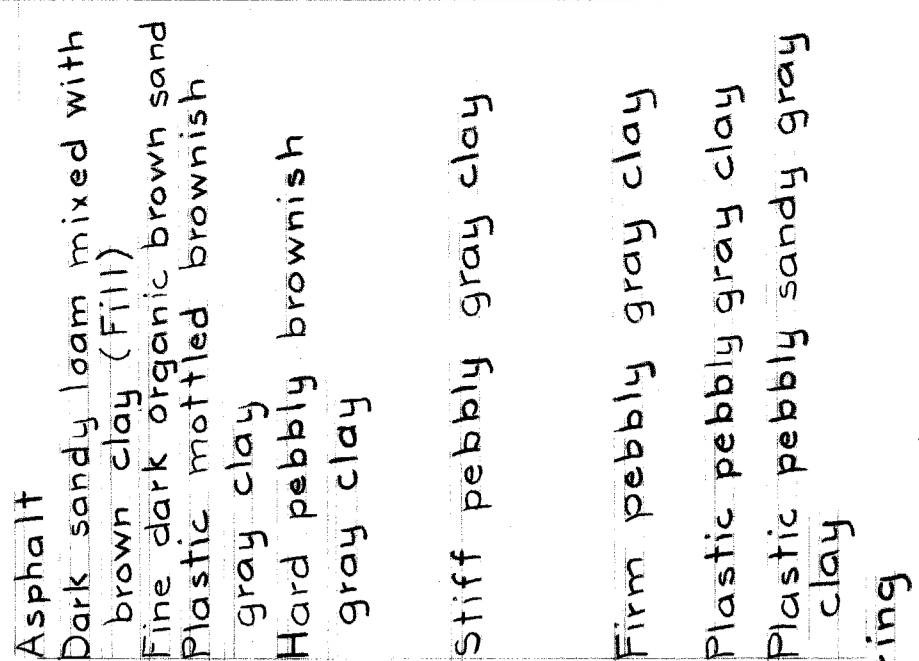
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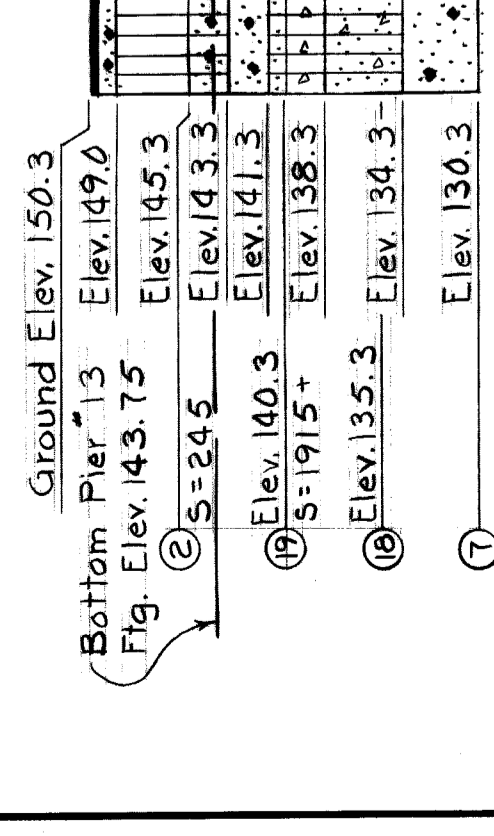
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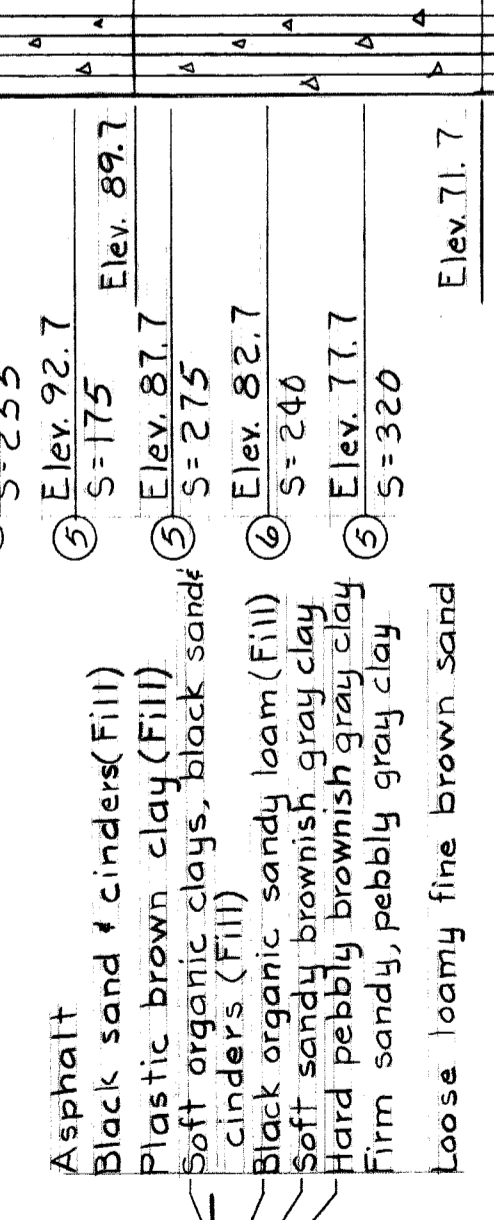
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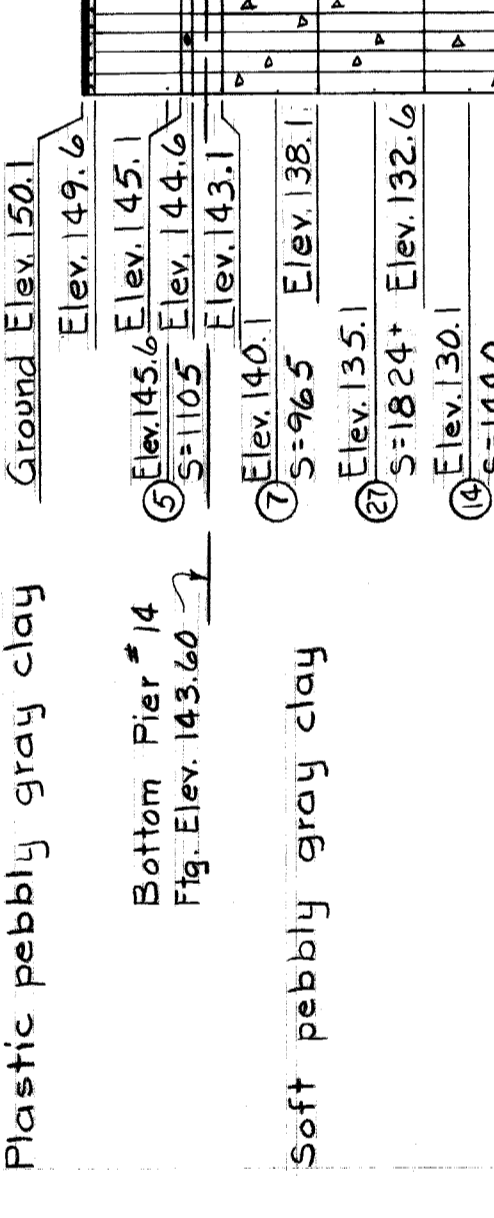
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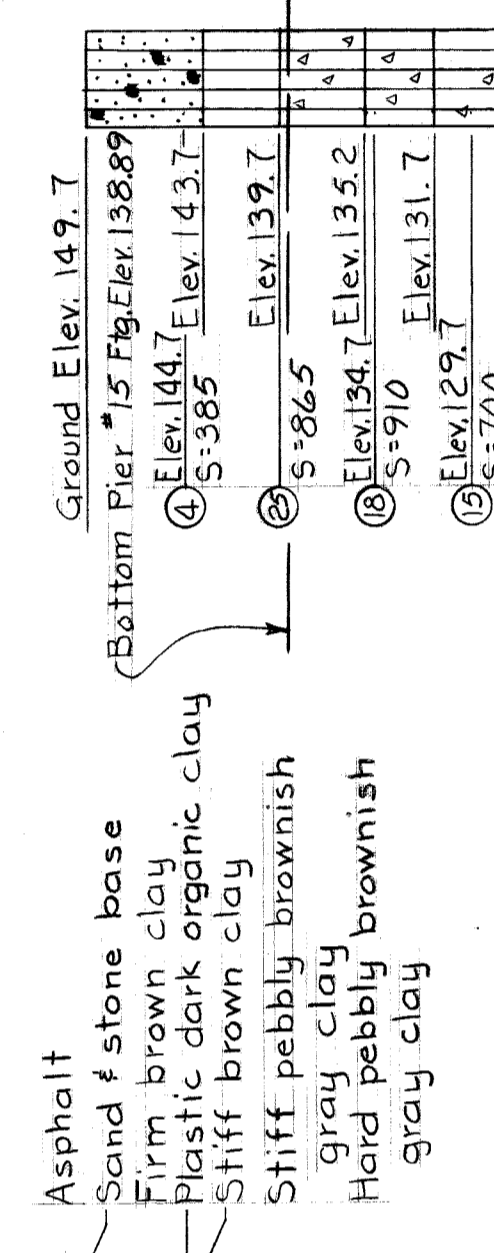
End of Boring
BORING No. 15



End of Boring
BORING No. 16



End of Boring
BORING No. 17



End of Boring
BORING No. 18

Water Level 8' below ground surface 20 min. after completion of boring

Water Level 6' below ground surface 2 days after completion of boring

Water Level 3' below ground surface 21 days after completion of boring

Water Level 14' below ground surface 1.5 hours after completion of boring

Water Level 14' below ground surface 1.5 hours after completion of boring

For Notes see Sh. No. 11.

For Notes see Sh. No. 11.

For Notes see Sh. No. 11.

For Notes see Sh. No. 11.

For Notes see Sh. No. 11.

HAZELT & ERDAL CONSULTING ENGINEERS

STATE PROJECT: **246**
COUNTY JOB: **246**
SHEET NO.: **12**
ISSUE NO.: **1**
DATE: **5/13/65**

WAYNE COUNTY ROAD COMMISSIONERS

BOARD OF ROAD COMMISSIONERS
DETROIT, MICHIGAN
PHILIP J. NEIDICK
WILLIAM E. KREGER
MICHAEL BERRY

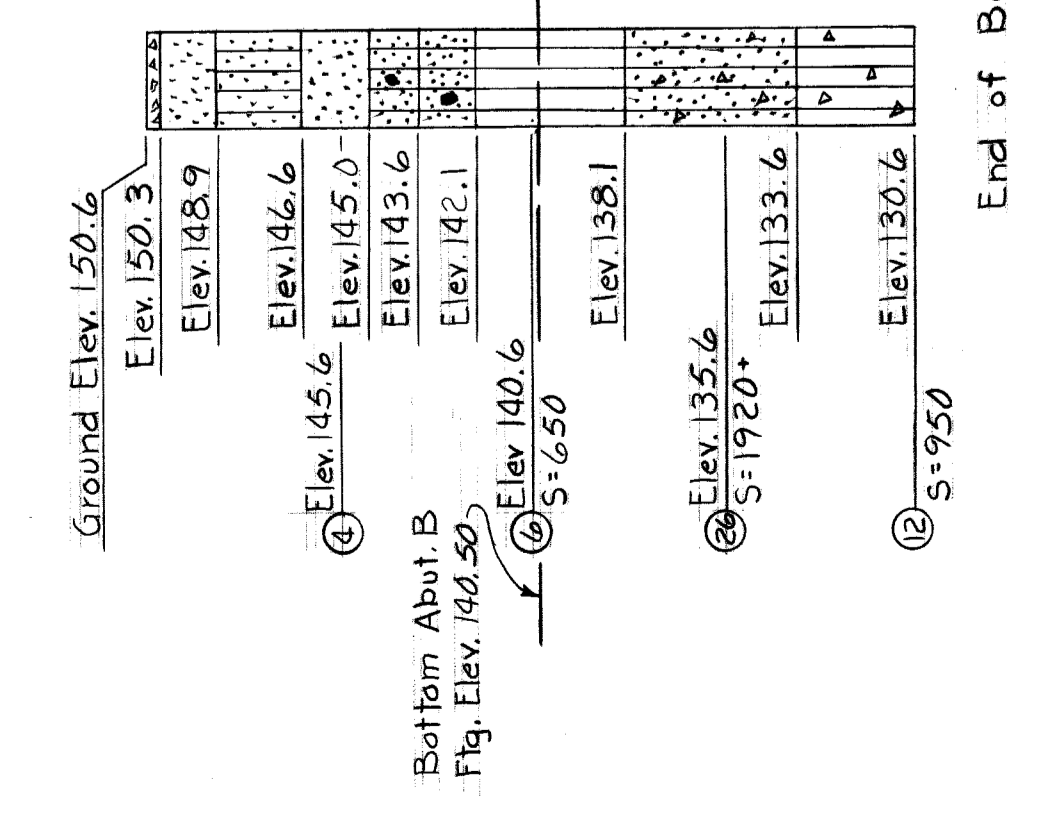
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APPROVED: *[Signature]*
ENGINEER OF STRUCTURES AND EXPRESSWAYS
DATE: 8-17-67

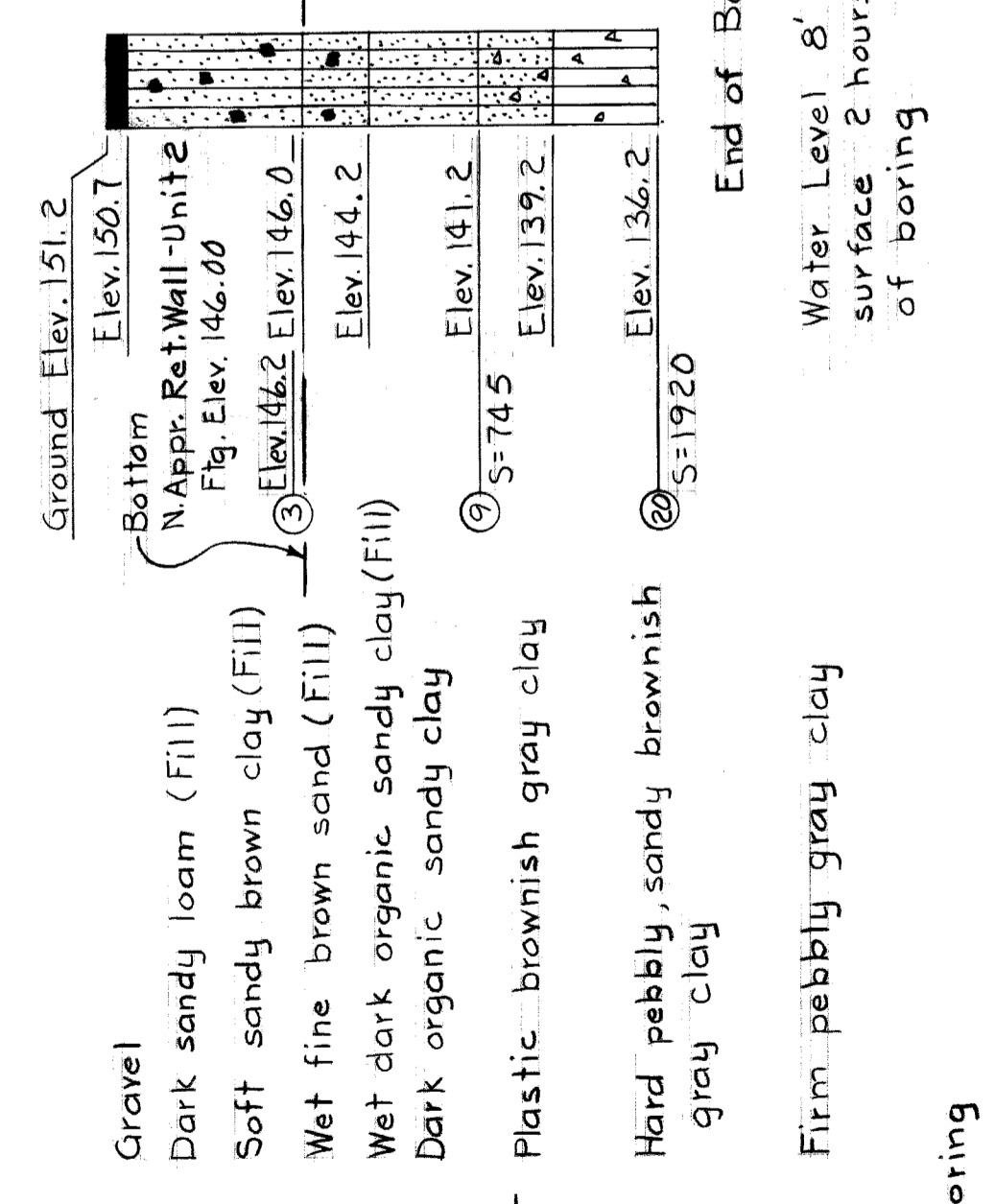
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ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS

WAYNE COUNTY ROAD COMMISSIONERS

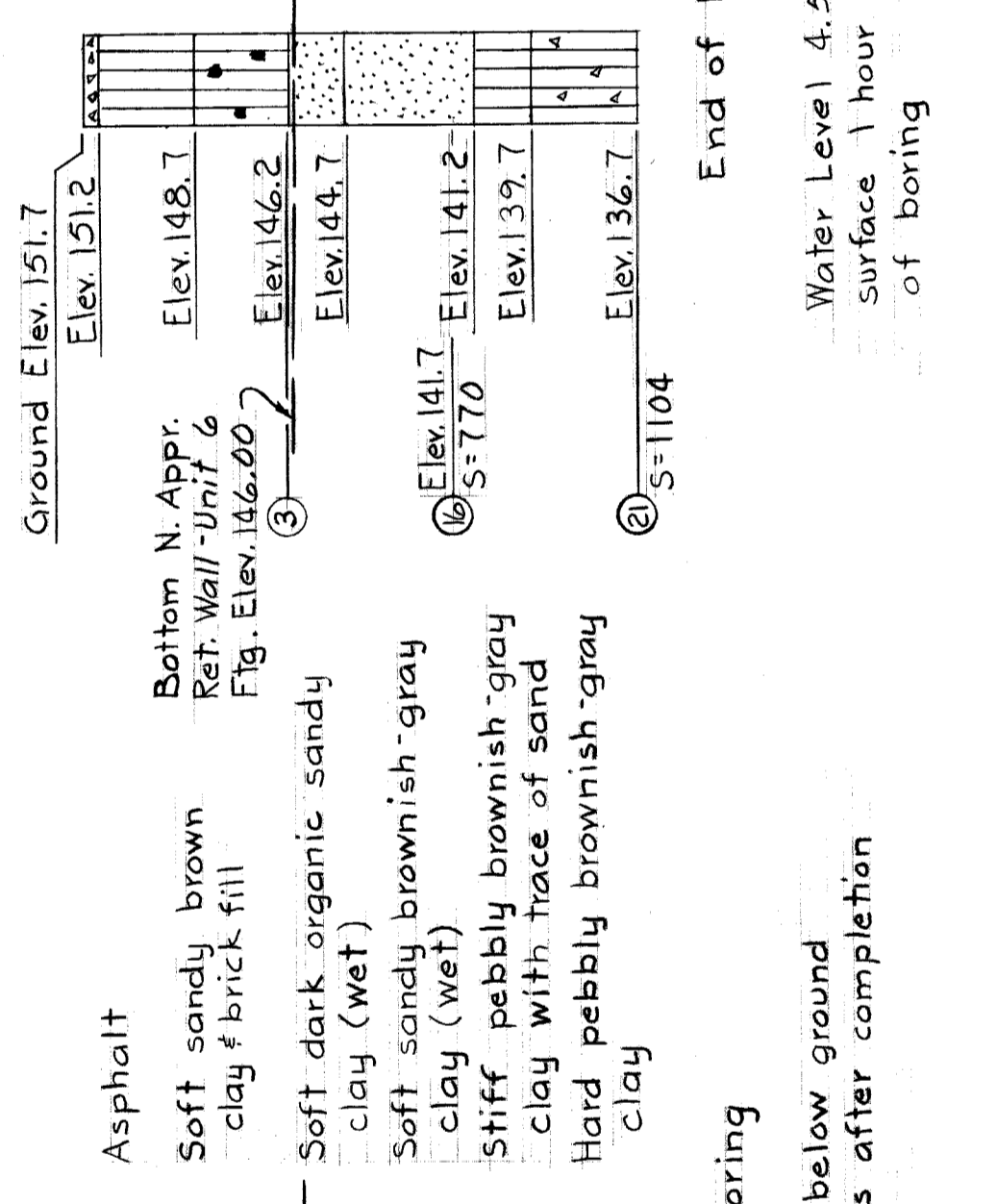
BOARD OF ROAD COMMISSIONERS
DETROIT, MICHIGAN
PHILIP J. NEIDICK
WILLIAM E. KREGER
MICHAEL BERRY



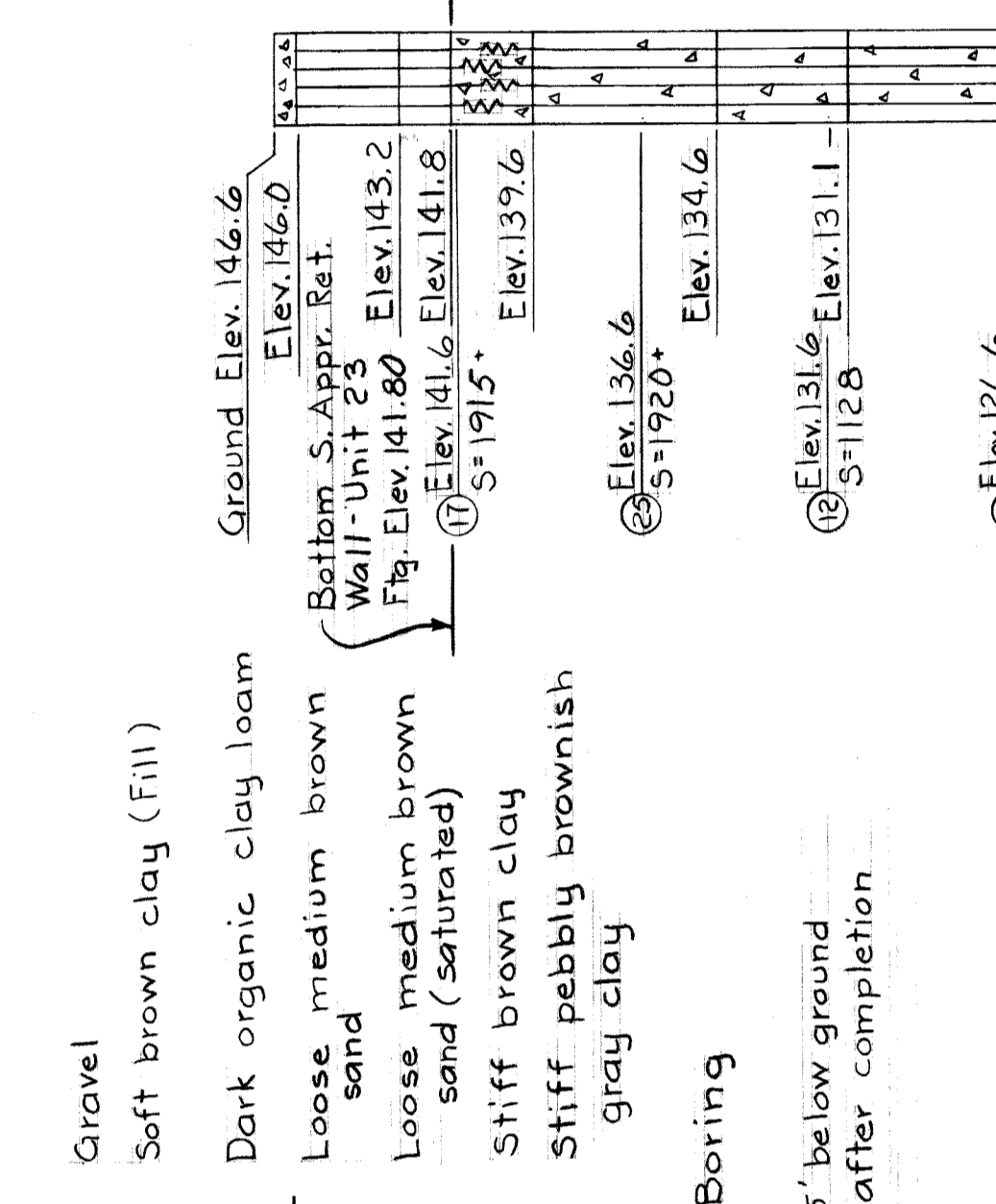
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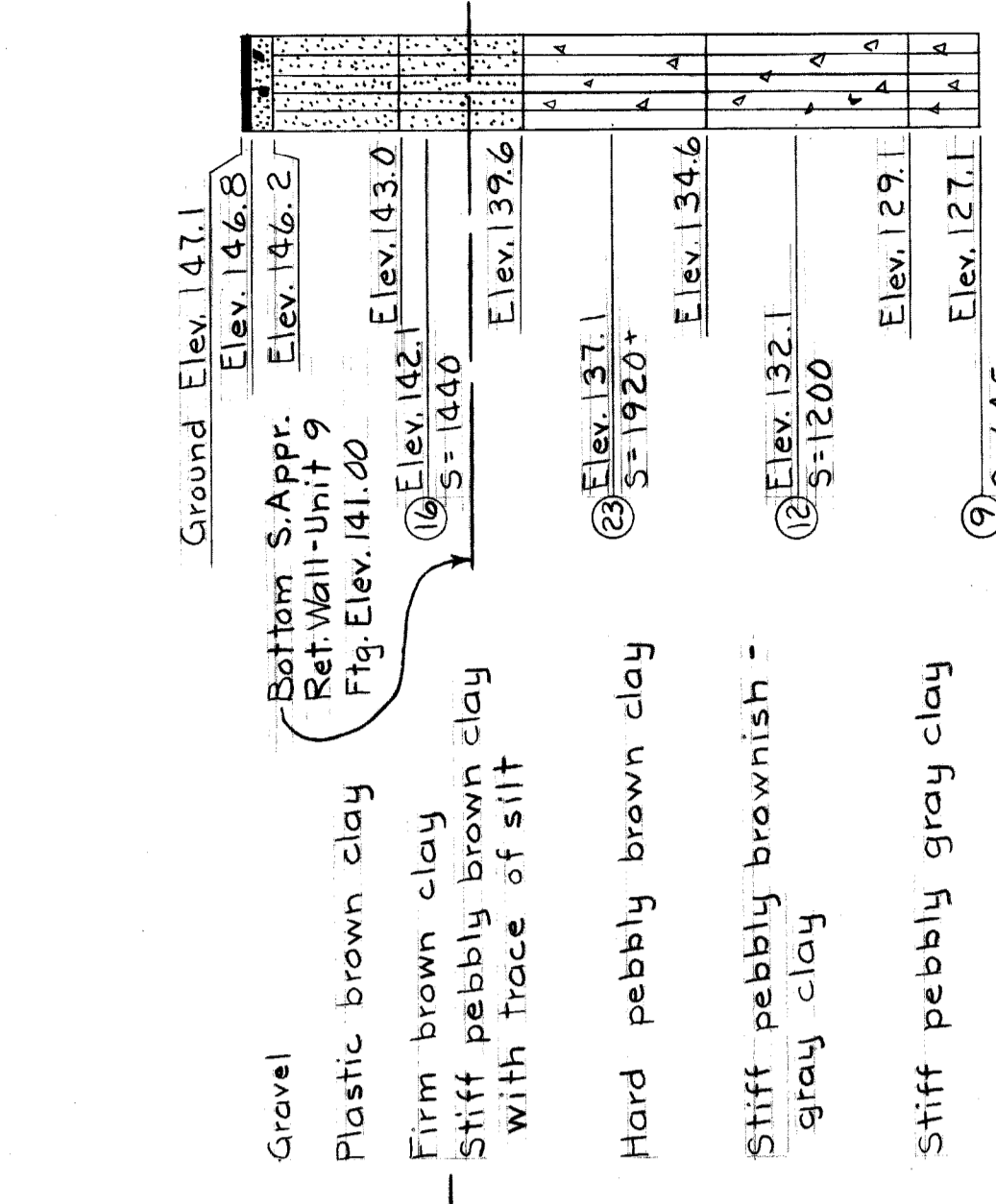
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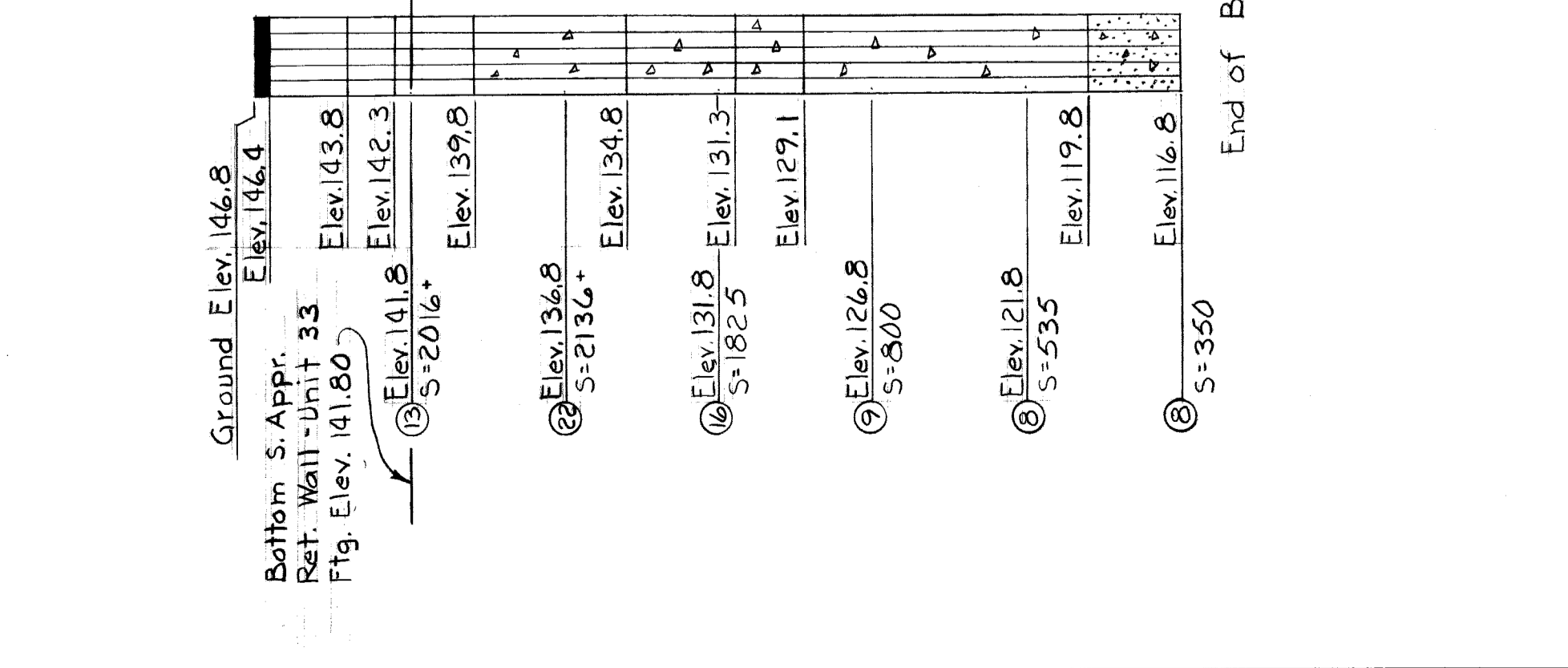
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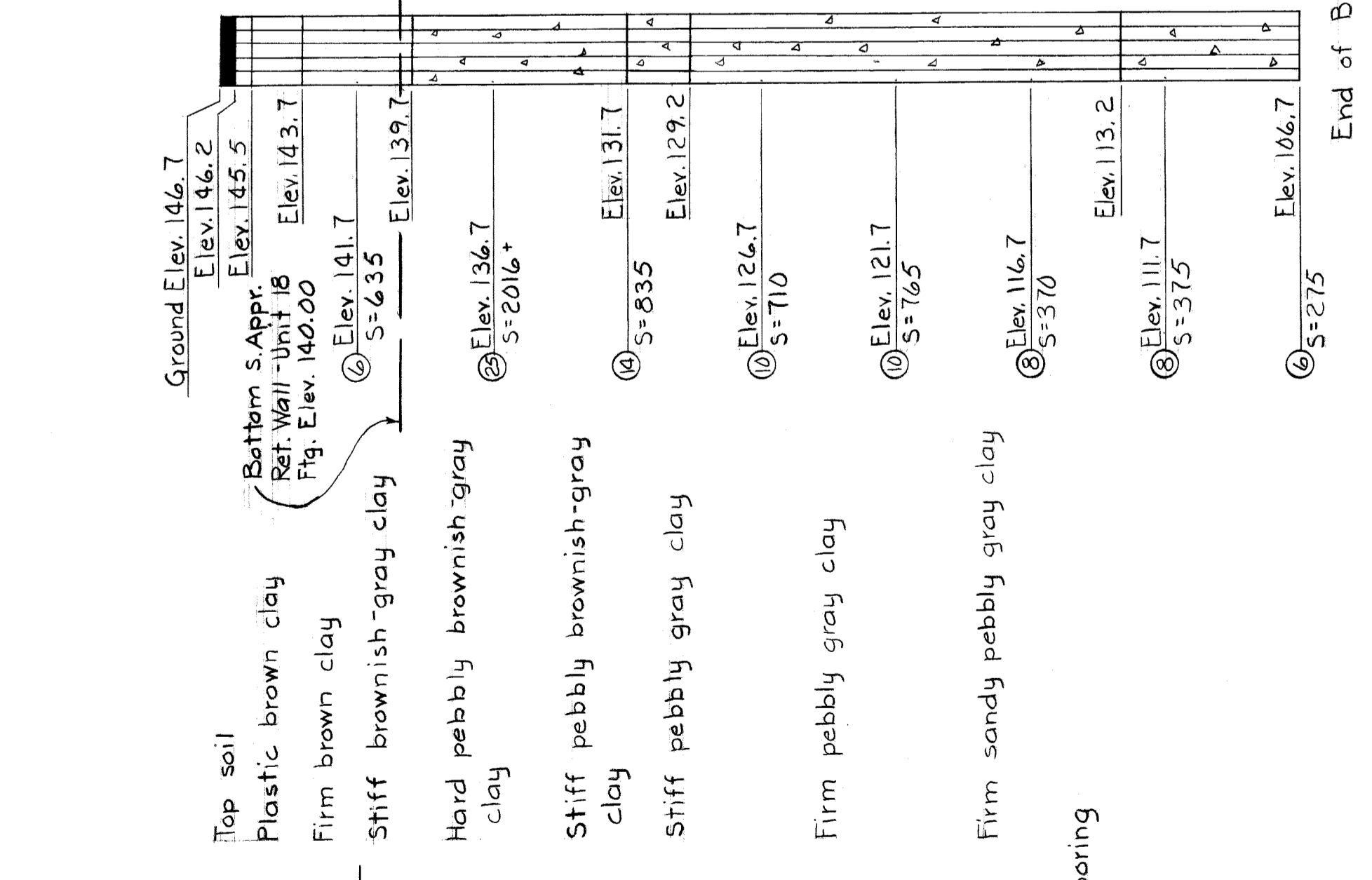
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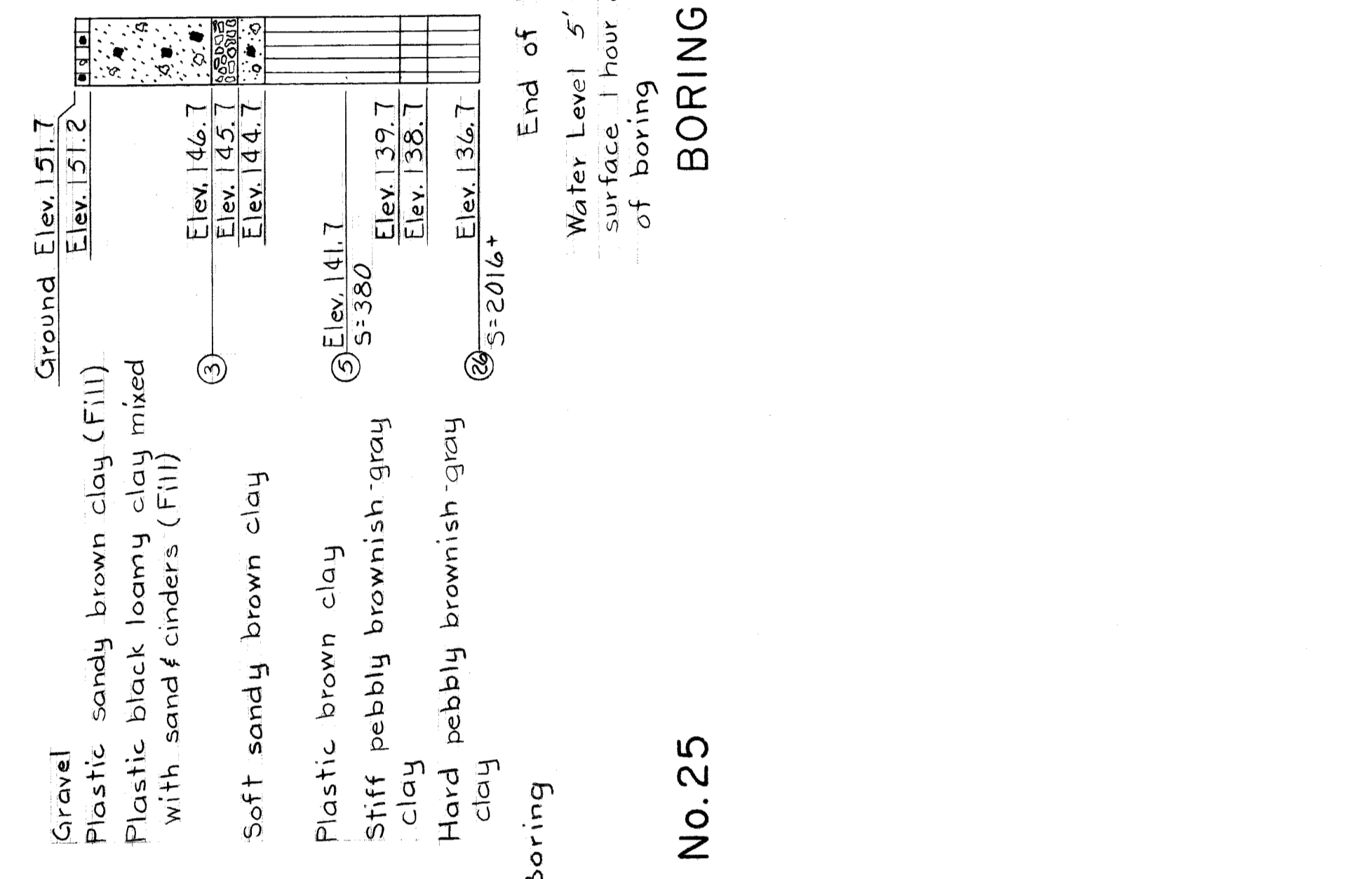
BORING No. 22



BORING No. 23



BORING No. 25



BORING No. 26

For Notes see Sh. No. 11.

REVISIONS

APPROVED

DRAWN BY: *M. F. ...*
CHECKED BY: *M. F. ...*
DATE: *...*

APPROVED

ENGINEER OF DESIGN, STRUCTURES AND HIGHWAYS

APPROVED

ENGINEER OF DESIGN, STRUCTURES AND HIGHWAYS

BOARD OF

WAYNE COUNTY ROAD COMMISSIONERS

DETROIT, MICHIGAN

WILLIAM E. KREGER

PHILIP J. NEUDECK

MICHAEL BERRY

HAZELET & ERDAL CONSULTING ENGINEERS

MOUNT ELLIOTT-MOUND RD.
GRADE SEPARATION
LOG OF BORINGS

STATE PROJECT

STATE FILE

BRIDGE

ROAD

COUNTY JOB

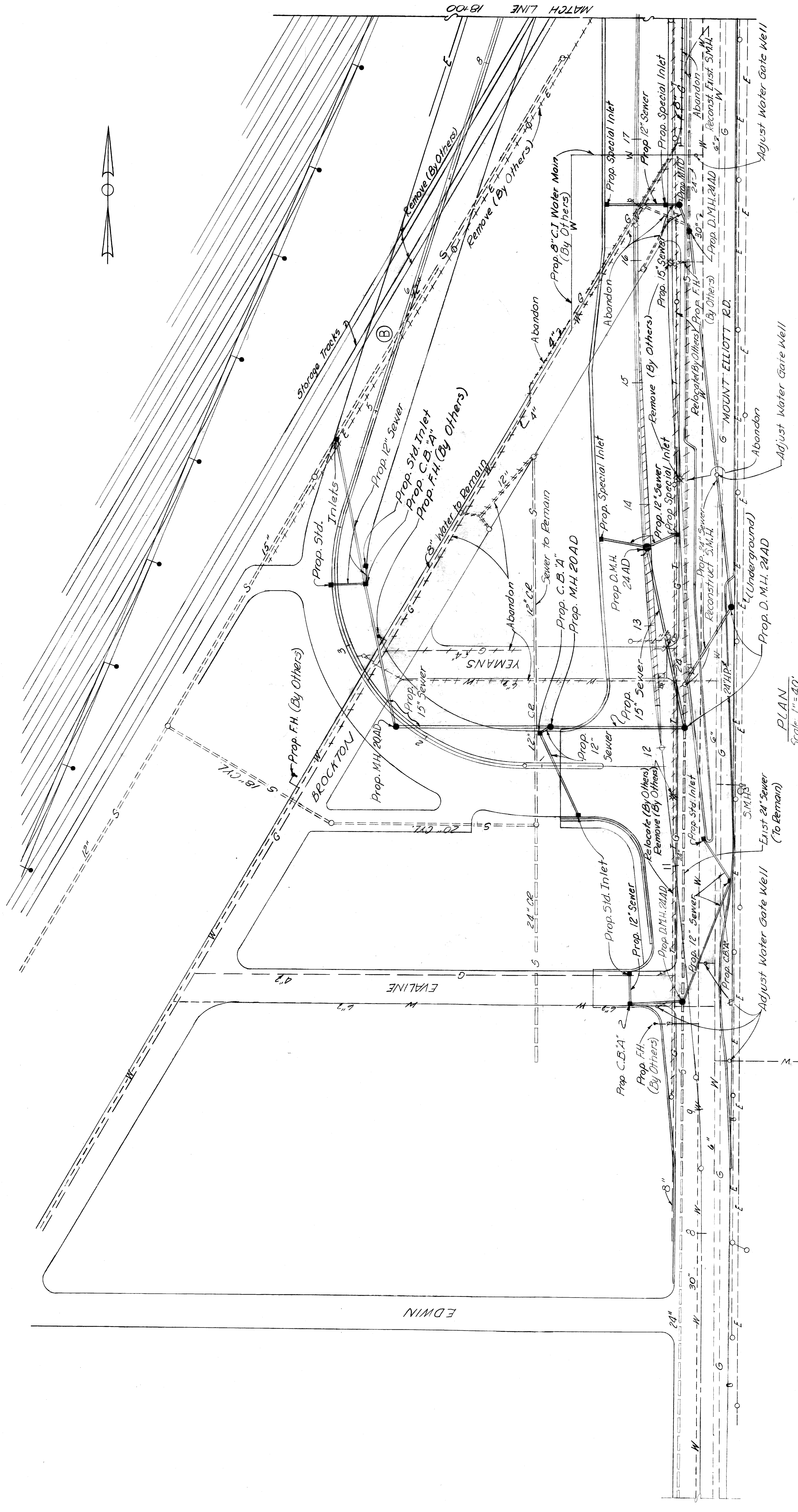
246

SHEET NO.

13

ISSUE NO. 1

DATE 7-13-63



QUANTITIES	
ITEM	TOTALS
Adjust Water Gate Well Manholes	11 Each
Reconst. Water Gate Well Manholes	6 Lin. Ft.

LEGEND

Existing	Remove, Abandon or Relocate	Proposed
Catch Basin	○	●
Manhole	○	●
Fire Hydrant	○	●
Sewer (Under 24")	—	—
Sewer (24" & Over)	—	—
Water Main	—	—
Michigan Consolidated Gas Co.	—	—
Detroit Edison Co.	—	—
Michigan Bell Telephone Co.	—	—
Public Lighting Commission Pole	—	—

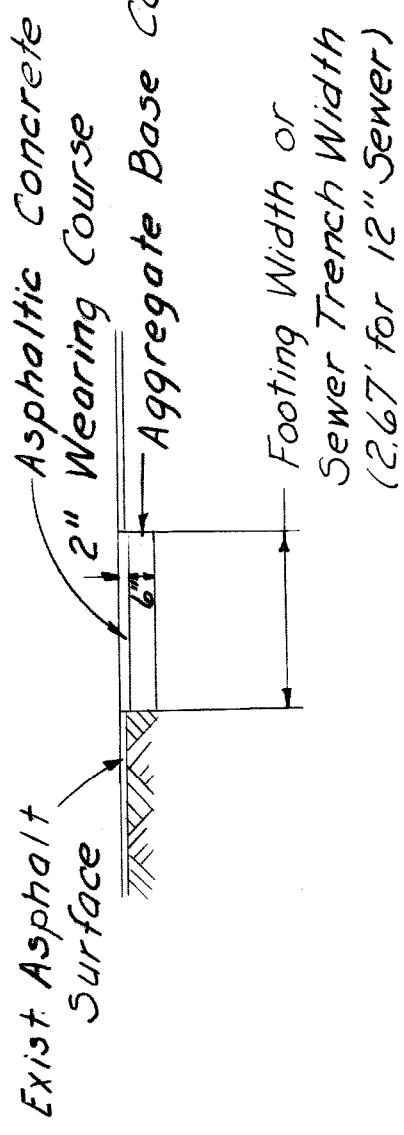
NOTES

For P.L.C. Plans see Sheets No. 126-128

For Details of Water Alterations performed "by Others" see Sheets No. 122-125

PLAN
Scale: 1" = 40'

REVISIONS Checked Aband. Sewer 10-30-08 LTM	APPROVED C. Brown ENGINEER OF STRUCTURES AND EXPRESSWAYS DATE: _____	APPROVED M. Spack ENGINEER OF STRUCTURES AND EXPRESSWAYS DATE: _____	BOARD OF WAYNE COUNTY ROAD COMMISSIONERS DETROIT, MICHIGAN WILLIAM E. KREGER MICHAEL BERRY	PLANS PREPARED BY CITY OF DETROIT & HAZELET & ERDAL CONSULTING ENGINEERS MOUNT ELLIOTT-MOUND RD. GRADE SEPARATION UTILITY PLAN	STATE PROJECT 246 COUNTY JOB 14 SHEET NO. 14 H & E FILE No. 603 DATE
------------------------------------------------	-------------------------------------------------------------------------------	-------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------



ASPHALT SURFACE REPLACEMENT

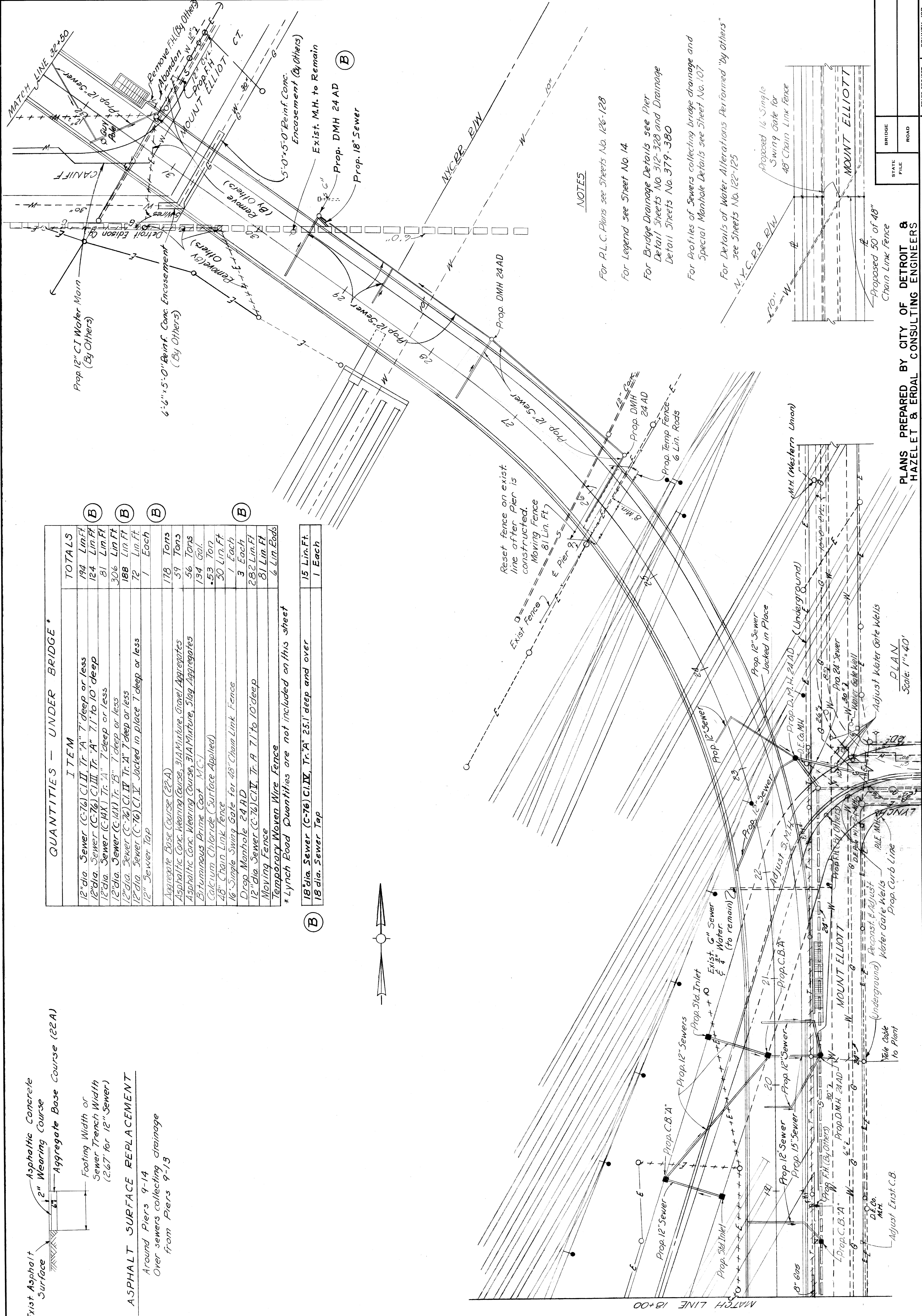
Around Piers 9-14
Over sewers collecting drainage
from Piers 9-13

QUANTITIES - UNDER BRIDGE *

ITEM	TOTALS
12" dia. Sewer (C-76) CI/II Tr. A" 7' deep or less	194 Lin.Ft.
12" dia. Sewer (C-76) CI/III Tr. A" 7' to 10' deep	124 Lin.Ft.
12" dia. Sewer (C-76) CI/IV Tr. A" 7' deep or less	81 Lin.Ft.
12" dia. Sewer (C-14X) Tr. A" 7' deep or less	306 Lin.Ft.
12" dia. Sewer (C-76) CI/II Tr. B" 7' deep or less	188 Lin.Ft.
12" dia. Sewer (C-76) CI/II Tr. A" 7' deep or less	72 Lin.Ft.
12" Sewer Tap	1 Each
Aggregate Base Course (22A)	178 Tons
Asphaltic Conc. Wearing Course, 3/4" Mixtures, Gravel Aggregates	59 Tons
Asphaltic Conc. Wearing Course, 3/4" Mixtures, Slag Aggregates	134 Gal.
Bituminous Prime Coat (MC-1)	.53 Ton
Calcium Chloride (Surface Applied)	50 Lin.Ft.
16" Simple Swing Gate for 48" Chain Link Fence	1 Each
Drop Manhole 24" AD	3 Each
12" dia. Sewer (C-76) CI/II Tr. A 7' to 10' deep	282 Lin.Ft.
Moving Fence	81 Lin.Ft.
Temporary Moven Wire Fence	6 Lin.Boards

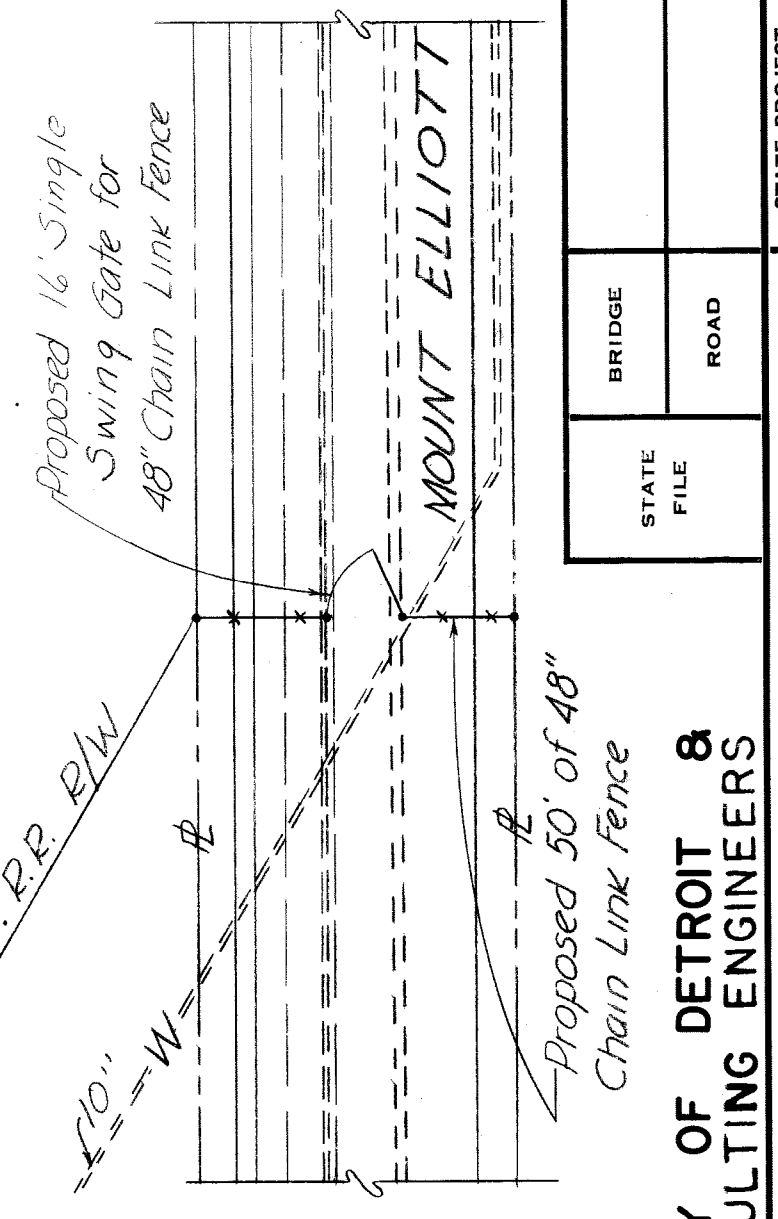
* Lynch Road Quantities are not included on this sheet

18" dia. Sewer (C-76) CI/IV, Tr. A" 25.1' deep and over	15 Lin.Ft.
18" dia. Sewer Tap	1 Each



NOTES

For P.L.C. Plans see Sheets No. 126-128
For Legend see Sheet No. 14
For Bridge Drainage Details see Pier Detail Sheets No. 312-328 and Drainage Detail Sheets No. 379-380
For Profiles of Sewers collecting bridge drainage and Special Manhole Details see Sheet No. 107
For Details of Water Alterations Performed "by Others" see Sheets No. 122-125



PLANS PREPARED BY CITY OF DETROIT & HAZEL ET & ERDAL CONSULTING ENGINEERS

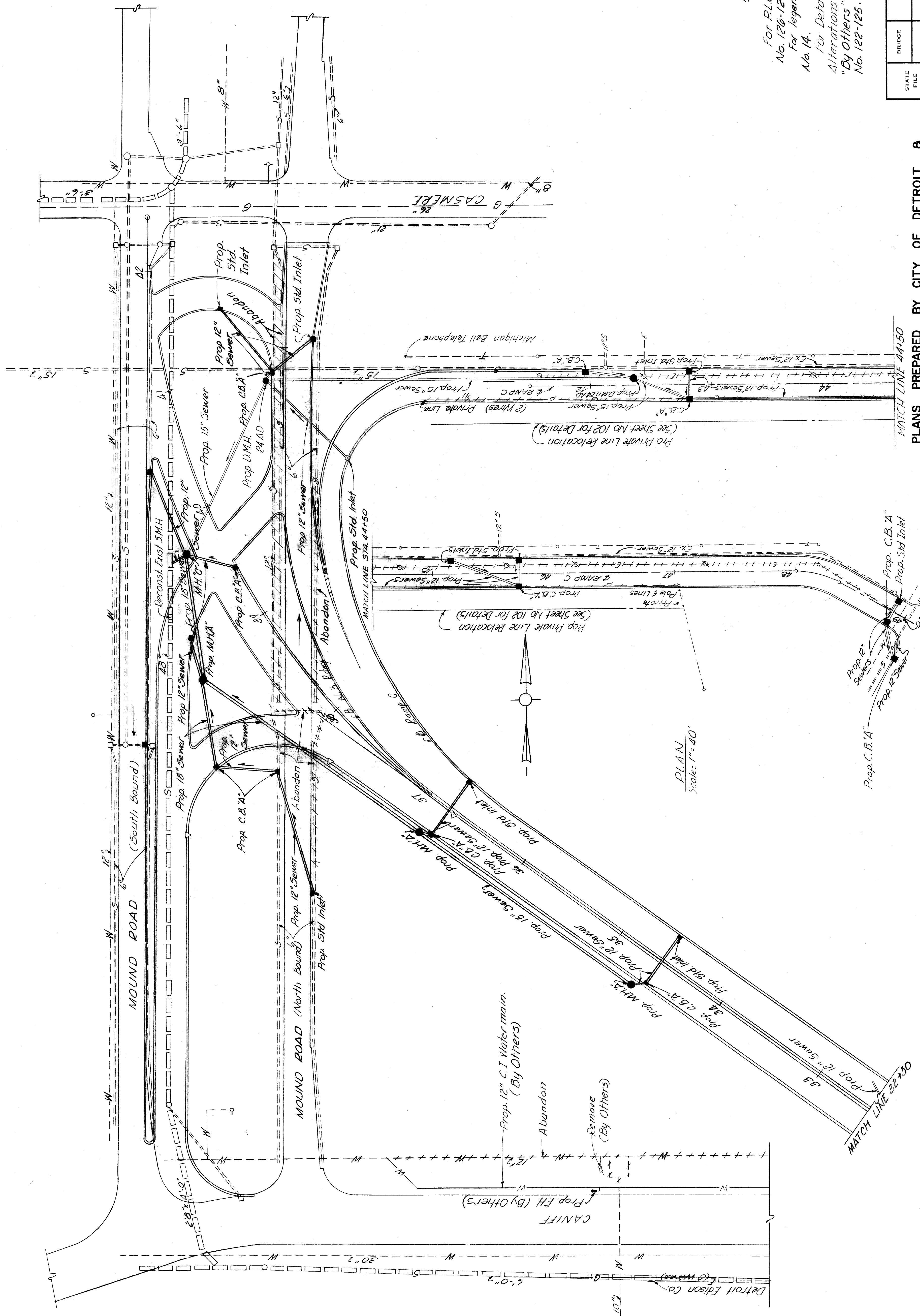
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN
WILLIAM E. KREGER
PHILIP J. NEUDECK
MICHAEL BERRY

APPROVED
BY ENGINEER OF STRUCTURE AND EXPRESSWAYS
CORRECTED BY
DATE

REVISIONS
BY
DATE
CHECKED BY
DATE

BRIDGE FILE NO. 246
ROAD FILE NO. 15
STATE PROJECT NO. 246
COUNTY JOB SHEET NO. 15
ISSUE NO. 2
DATE 10-30-68

MOUNT ELLIOTT ROAD
GRADE SEPARATION
UTILITY PLAN



NOTES
 For R.L.C. Plans see Sheets
 No. 126-128.
 For legend see Sheet
 No. 14.
 For Details of Water
 Alterations performed
 "By Others" see sheets
 No. 122-125.

STATE FILE	BRIDGE	STATE PROJECT	COUNTY JOB
ROAD			246
		ISSUE NO. 1	SHEET NO. 16
		DATE 5-13-68	

PLANS PREPARED BY CITY OF DETROIT &
 HAZELT & ERDAL CONSULTING ENGINEERS

WAYNE COUNTY ROAD COMMISSIONERS
 DETROIT, MICHIGAN

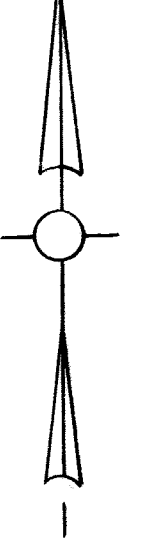
WILLIAM E. KREGER
 PHILIP J. NEUDECK

MICHAEL BERRY

ROAD LEADER	C. BROWN
DESIGNED BY	C. BROWN
CHECKED BY	M. J. JAGGARD
DATE	5-13-68
APPROVED	M. J. JAGGARD
ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS	

REVISIONS	

PLAN
 Scale: 1"=40'



MATCH LINE 22+30

MATCH LINE 44+50

Prop. FH (By Others)

Prop. 12" C.I. Water main.
 (By Others)

Remove
 (By Others)

Abandon

Prop. 5th Inlet

Prop. 12" Sewer

Prop. 15" Sewer

Prop. 12" Sewer

Prop. 15" Sewer

Prop. 12" Sewer

Prop. 15" Sewer

Prop. 12" Sewer

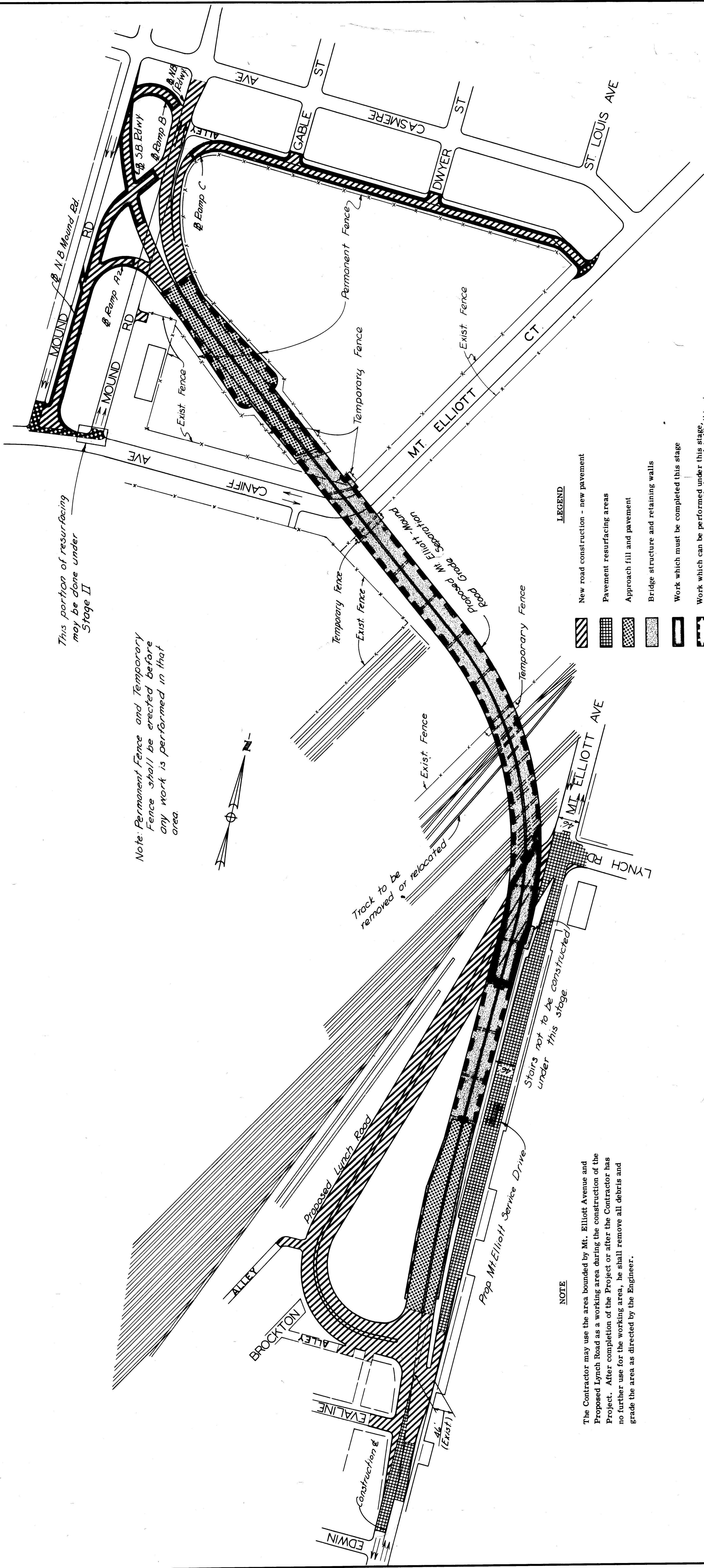
Prop. 15" Sewer

Prop. 12" Sewer

Prop. 15" Sewer

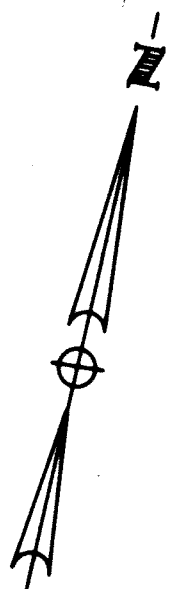
Prop. 12" Sewer

Prop. 15" Sewer



This portion of resurfacing may be done under Stage II

Note: Permanent Fence and Temporary Fence shall be erected before any work is performed in that area.



Track to be removed or relocated

Stairs not to be constructed under this stage

NOTE

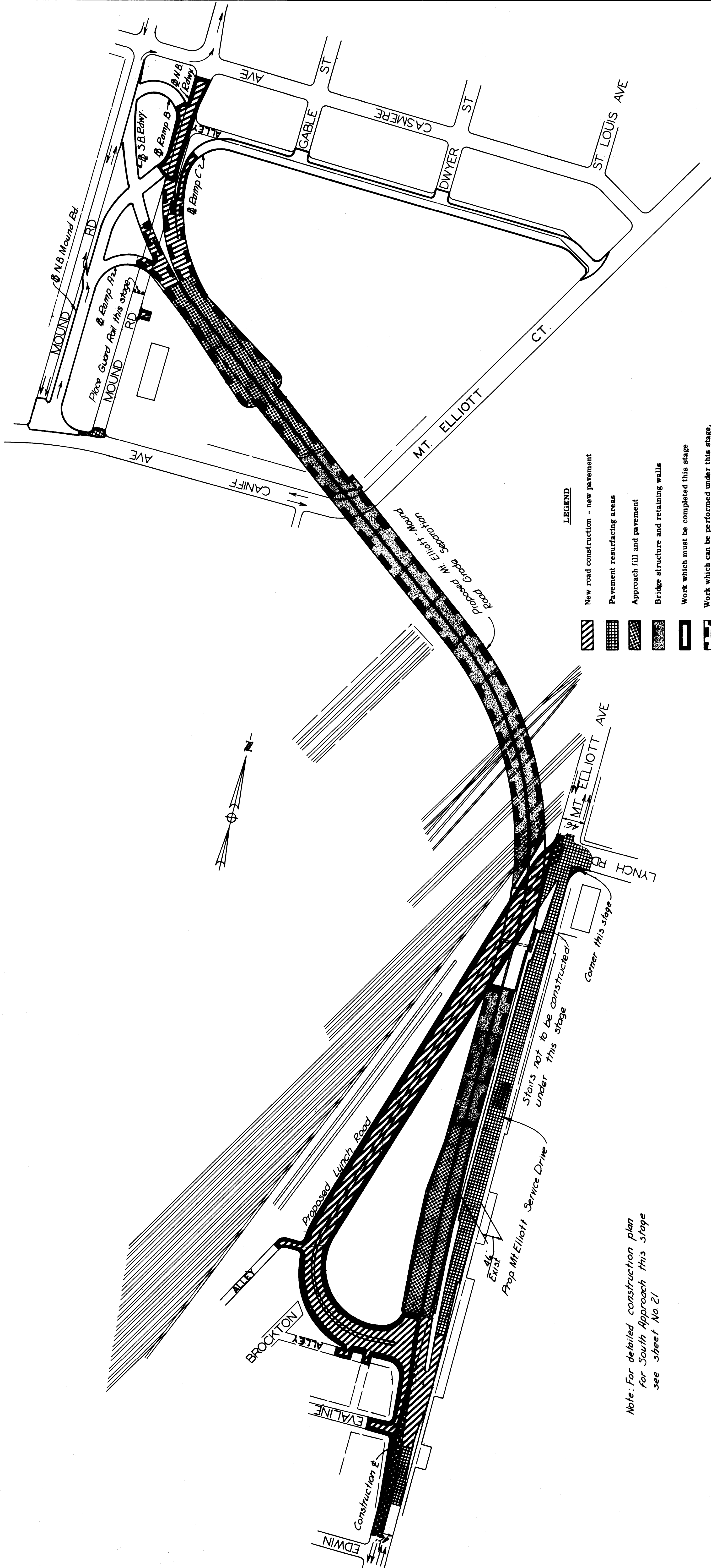
The Contractor may use the area bounded by Mt. Elliott Avenue and Proposed Lynch Road as a working area during the construction of the Project. After completion of the Project or after the Contractor has no further use for the working area, he shall remove all debris and grade the area as directed by the Engineer.

LEGEND

- New road construction - new pavement
- Pavement resurfacing areas
- Approach fill and pavement
- Bridge structure and retaining walls
- Work which must be completed this stage
- Work which can be performed under this stage, but which need not necessarily be completed in this stage
- Pavement resurfacing to be performed under traffic this stage.

STAGE I

	STATE PROJECT	COUNTY JOB	STATE PROJECT	COUNTY JOB																									
BRIDGE	ROAD	STATE FILE	ROAD	ISSUE NO.	SHEET NO.																								
		HAZELET 8 ERDAL CONSULTING ENGINEERS		246	17																								
WAYNE COUNTY ROAD COMMISSIONERS			MT. ELLIOTT - MOUND ROAD CONSTRUCTION SEQUENCE																										
DETROIT, MICHIGAN			DATE 3/14/68																										
WILLIAM E. KREGER			MICHAEL BERRY																										
PHILIP J. NEUDECK			X0107-17																										
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ROAD LEADER	R.E. POWLES	APPROVED																											
DRAWN BY	GENIVAY	DATE	3-14-68	ENGINEER OF STRUCTURES AND EXPRESSWAYS																									
CHECKED BY		DATE		APPROVED																									
CORRECTED BY	M. J. J. J.	DATE																											
<table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">REVISIONS</td> <td style="width: 20%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> <td style="width: 10%;"></td> </tr> </table>						REVISIONS																							
REVISIONS																													

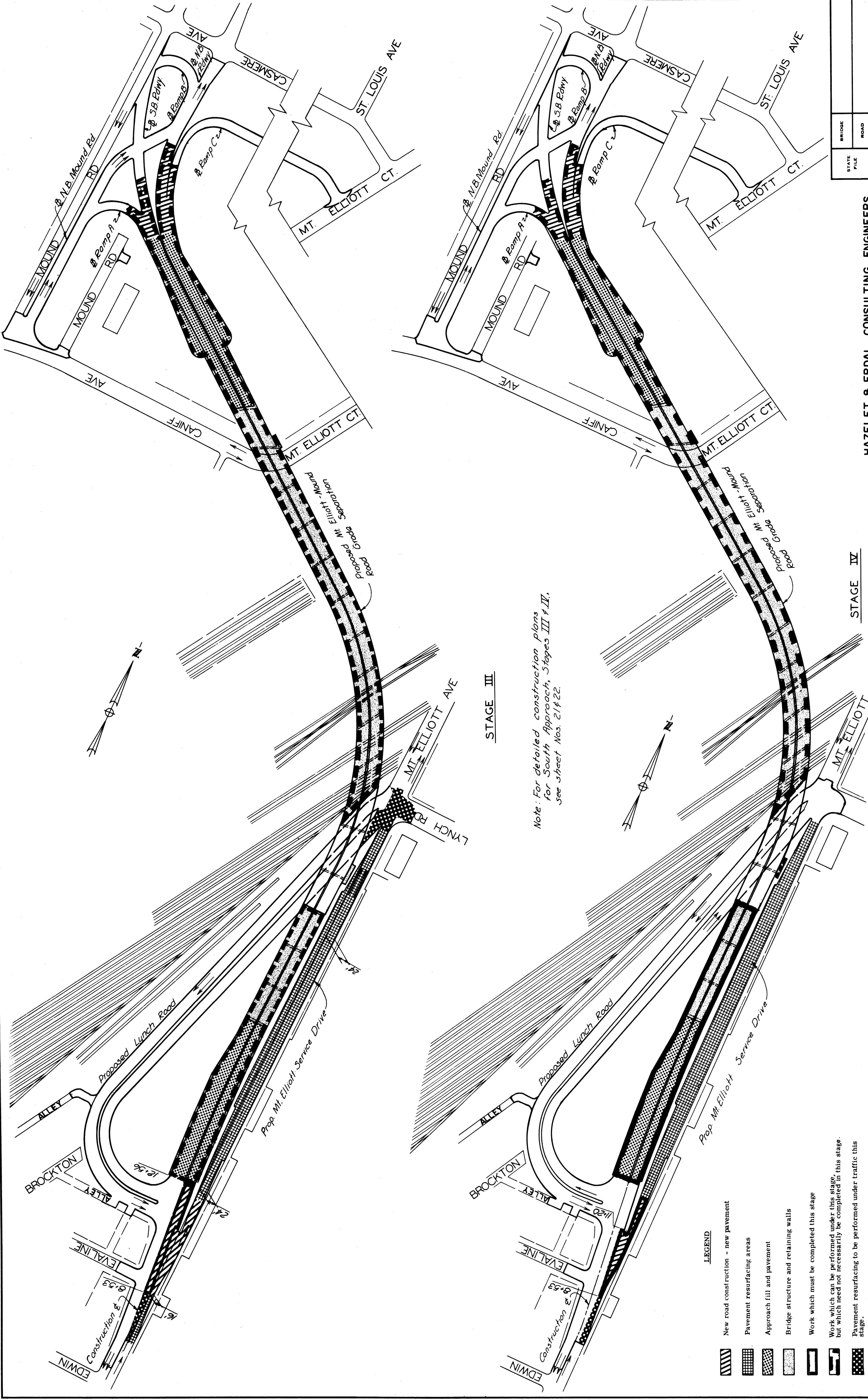


- LEGEND**
- New road construction - new pavement
 - Pavement resurfacing areas
 - Approach fill and pavement
 - Bridge structure and retaining walls
 - Work which must be completed this stage
 - Work which can be performed under this stage, but which need not necessarily be completed in this stage
 - Pavement resurfacing to be performed under traffic this stage.
 - Work completed under a previous stage. (Heavy outline)

STAGE II

Note: For detailed construction plan for South Approach this stage see sheet No. 21

	STATE FILE	BRIDGE		ROAD	
HAZELET & ERDAL CONSULTING ENGINEERS			STATE PROJECT		
WAYNE COUNTY ROAD COMMISSIONERS			COUNTY JOB		
DETROIT, MICHIGAN			246		
PHILIP J. NEUDECK WILLIAM E. KREGER			ISSUE NO. 1		
MICHAEL BERRY			SHEET NO. 18		
MT. ELLIOTT - MOUND ROAD CONSTRUCTION SEQUENCE			DATE: 5-13-68		
APPROVED		APPROVED		APPROVED	
R. E. FORTNES ENGINEER OF STRUCTURES AND EXPRESSWAY		[Signature] ENGINEER OF STRUCTURES AND EXPRESSWAY		[Signature] ENGINEER OF STRUCTURES AND EXPRESSWAY	
CHECKED BY: G. N. W.		DATE: 3-14-68		DATE: 3-14-68	
DRAWN BY: [Signature]		DATE: [Signature]		DATE: [Signature]	
COMPANY: [Signature]		DATE: [Signature]		DATE: [Signature]	
ENGINEER OF STRUCTURES AND EXPRESSWAYS		ENGINEER OF STRUCTURES AND EXPRESSWAYS		ENGINEER OF STRUCTURES AND EXPRESSWAYS	
REVISIONS					

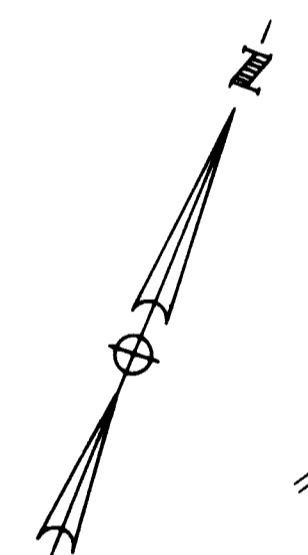
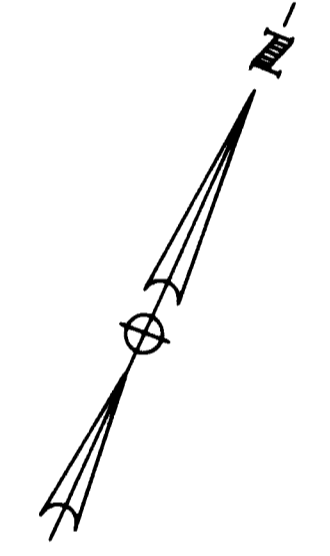
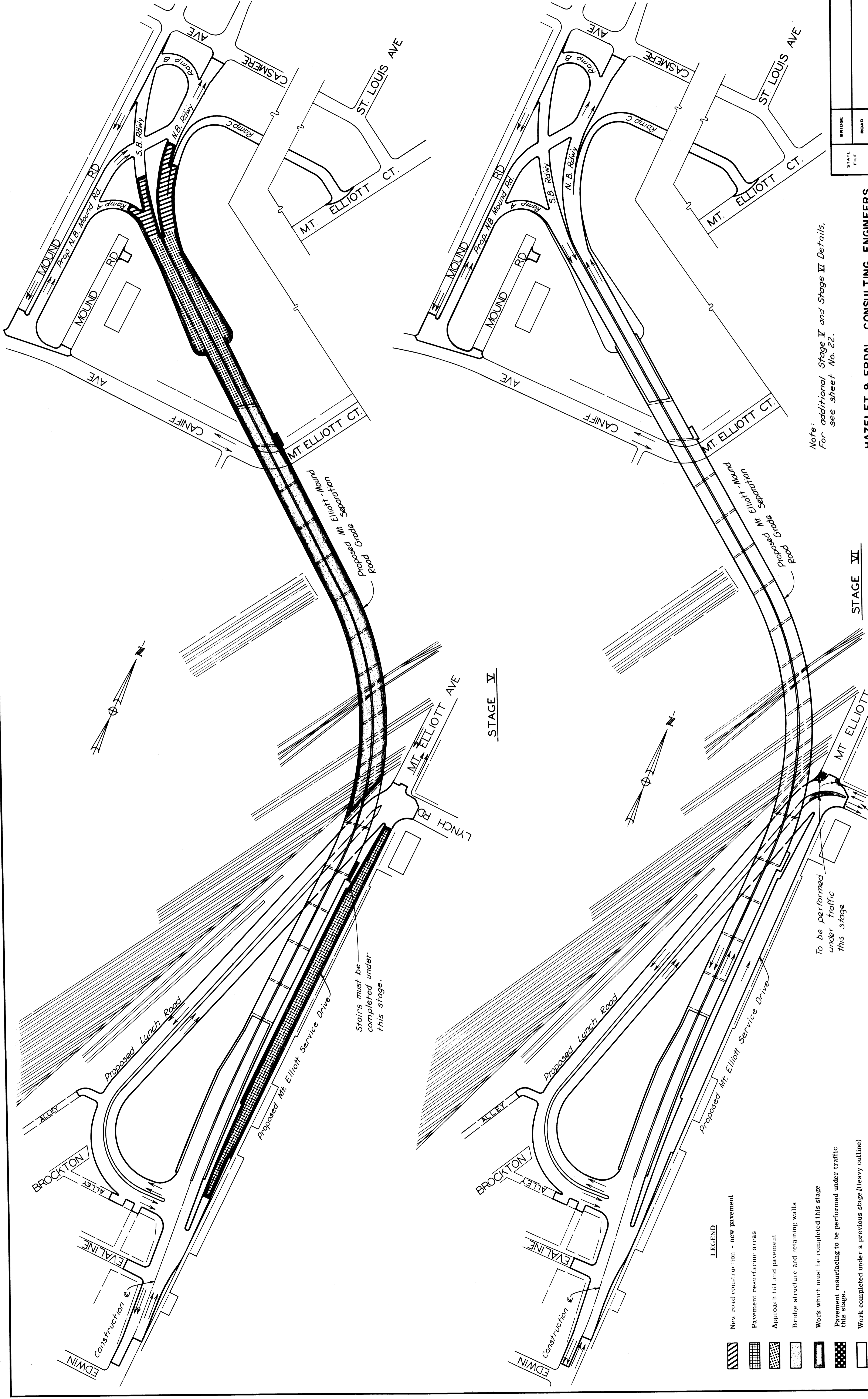









Note: For detailed construction plans for South Approach, Stages III + IV, see sheet Nos. 21 & 22.

LEGEND

- New road construction - new pavement
- Pavement resurfacing areas
- Approach fill and pavement
- Bridge structure and retaining walls
- Work which must be completed this stage
- Work which can be performed under this stage, but which need not necessarily be completed in this stage.
- Pavement resurfacing to be performed under traffic this stage.
- Work completed under a previous stage. (Heavy outline)

HAZELET & ERDAL CONSULTING ENGINEERS		WAYNE COUNTY ROAD COMMISSIONERS DETROIT, MICHIGAN <small>WILLIAM E. KREGER</small>	MT. ELLIOTT - MOUND ROAD CONSTRUCTION SEQUENCE	STATE PROJECT 246	COUNTY JOB 19
BRIDGE STATE FILE	ROAD ROAD			ISSUE NO. / DATE 5-12-68	SHEET NO. 19
APPROVED <small>PHILIP J. NEUDECK</small> COUNTY HIGHWAY ENGINEER		APPROVED <small>W. E. FOWLES</small> ENGINEER OF STRUCTURES AND EXPRESSWAYS		APPROVED <small>W. E. FOWLES</small> ENGINEER OF STRUCTURES AND EXPRESSWAYS	
REVISIONS		DRAWN BY <small>W. E. FOWLES</small>		CHECKED BY <small>W. E. FOWLES</small>	
REVISIONS		DATE 3 - 68		DATE 3 - 68	
REVISIONS		TRACED BY <small>W. E. FOWLES</small>		TRACED BY <small>W. E. FOWLES</small>	
REVISIONS		COMPANY <small>HAZELET & ERDAL</small>		COMPANY <small>HAZELET & ERDAL</small>	



- LEGEND**
-  New road construction - new pavement
 -  Pavement resurfacing areas
 -  Approach fill and pavement
 -  Bridge structure and retaining walls
 -  Work which must be completed this stage
 -  Pavement resurfacing to be performed under traffic this stage.
 -  Work completed under a previous stage.(Heavy outline)

Stains must be completed under this stage.

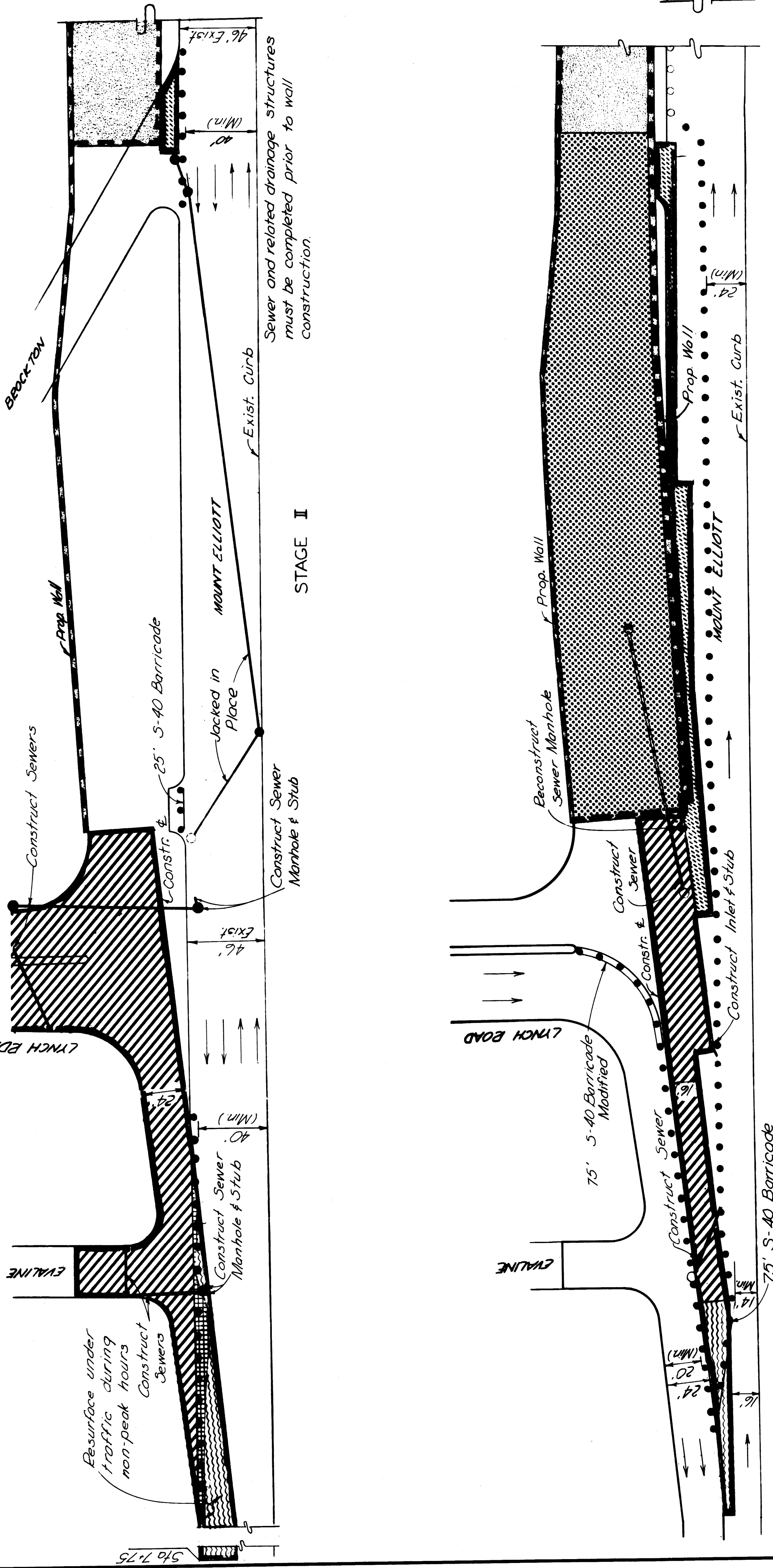
To be performed under traffic this stage

Note:
For additional Stage V and Stage VI Details,
see sheet No. 22.

HAZELET & ERDAL CONSULTING ENGINEERS		STATE PROJECT	COUNTY JOB
MT. ELLIOTT - MOUND ROAD CONSTRUCTION SEQUENCE		BRIDGE	246
WAYNE COUNTY ROAD COMMISSIONERS		ROAD	SHEET NO.
DETROIT, MICHIGAN		STATE FILE	20
PHILIP J. NEUDECK		ISSUE NO.	DATE
WILLIAM E. KREGER		MICHAEL BERRY	5/21/68
APPROVED		APPROVED	
R. E. FOMKES		R. E. FOMKES	
ENGINEER OF STRUCTURES AND EXPRESSWAYS		ENGINEER OF STRUCTURES AND EXPRESSWAYS	
DATE		DATE	
3-13-68		3-13-68	
CORRECTED BY		CORRECTED BY	
M. Agaschi		M. Agaschi	
ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS		ENGINEER OF DESIGN, STRUCTURES AND EXPRESSWAYS	
REVISIONS		REVISIONS	

Note: During peak hours, a 40' minimum roadway shall be maintained on Mt. Elliott by placing the excavations required for manhole construction.

Note: Sewers and sewer manhole, left of 570 Lynch Rd. Mt. Elliott Service Drive must be completed under Stage II.



LEGEND

- New road construction - new pavement
- Pavement resurfacing areas
- Approach fill and pavement
- Bridge structure and retaining walls
- Strip and resurface
- Proposed removal
- Temporary pavement
- Work which must be completed this stage
- Work which can be performed under this stage, but which need not necessarily be completed in this stage.
- Existing incidental barricades
- Existing S-40 barricade
- Existing S-40 barricade modified
- Direction of traffic in lanes
- Incidental barricade
- S-40 barricade
- S-40 barricade modified

LEGEND (Continued)

- Sewer to be completed in this stage
- Sewer on which work may proceed but which need not be completed in this stage
- Sewer completed in a previous stage
- Work completed under a previous stage (heavy outline)

Stages shown on this sheet are the same as those Stages shown on sheets 17-19.

REVISIONS		CITY OF DETROIT		APPROVED	
		DESIGNED BY	DATE	ENGINEER OF STRUCTURES AND EXPANSIVES	
		DRAWN BY	DATE	APPROVED	
		CHECKED BY	DATE		
		COMPANY			

WAYNE COUNTY ROAD COMMISSIONERS
 BOARD OF
 DETROIT, MICHIGAN
 WILLIAM E. KREGER
 PHILIP J. NEUDECK

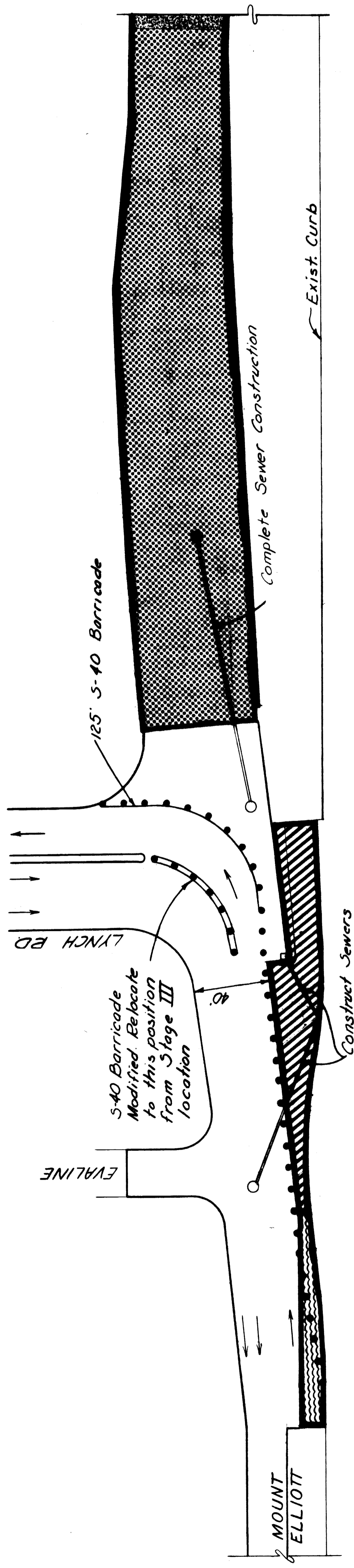
PLANS PREPARED BY CITY OF DETROIT & HAZELT & ERDAL CONSULTING ENGINEERS

MT ELLIOTT - MOUND ROAD
 CONSTRUCTION SEQUENCE

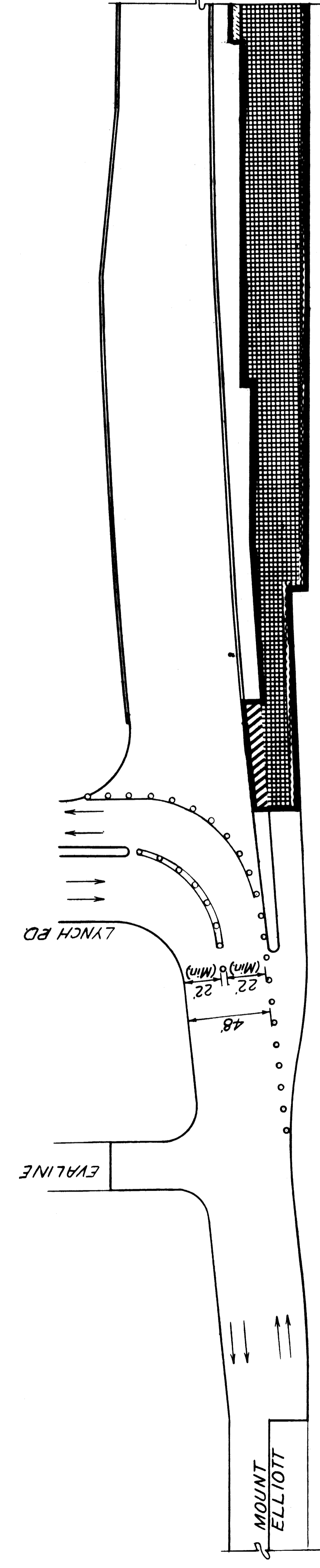
STATE PROJECT	COUNTY JOB
	246
ISSUE NO.	SHEET NO.
1	21
DATE	

H B E FILE NO. 603

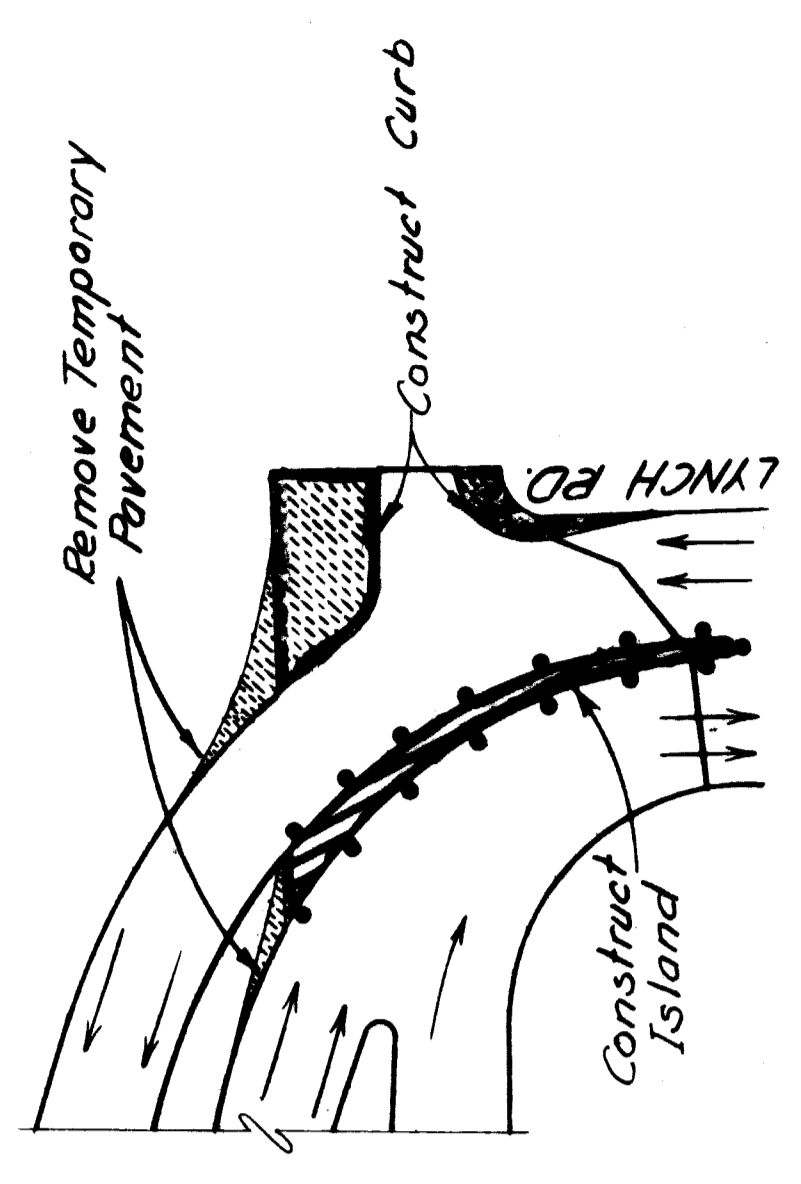
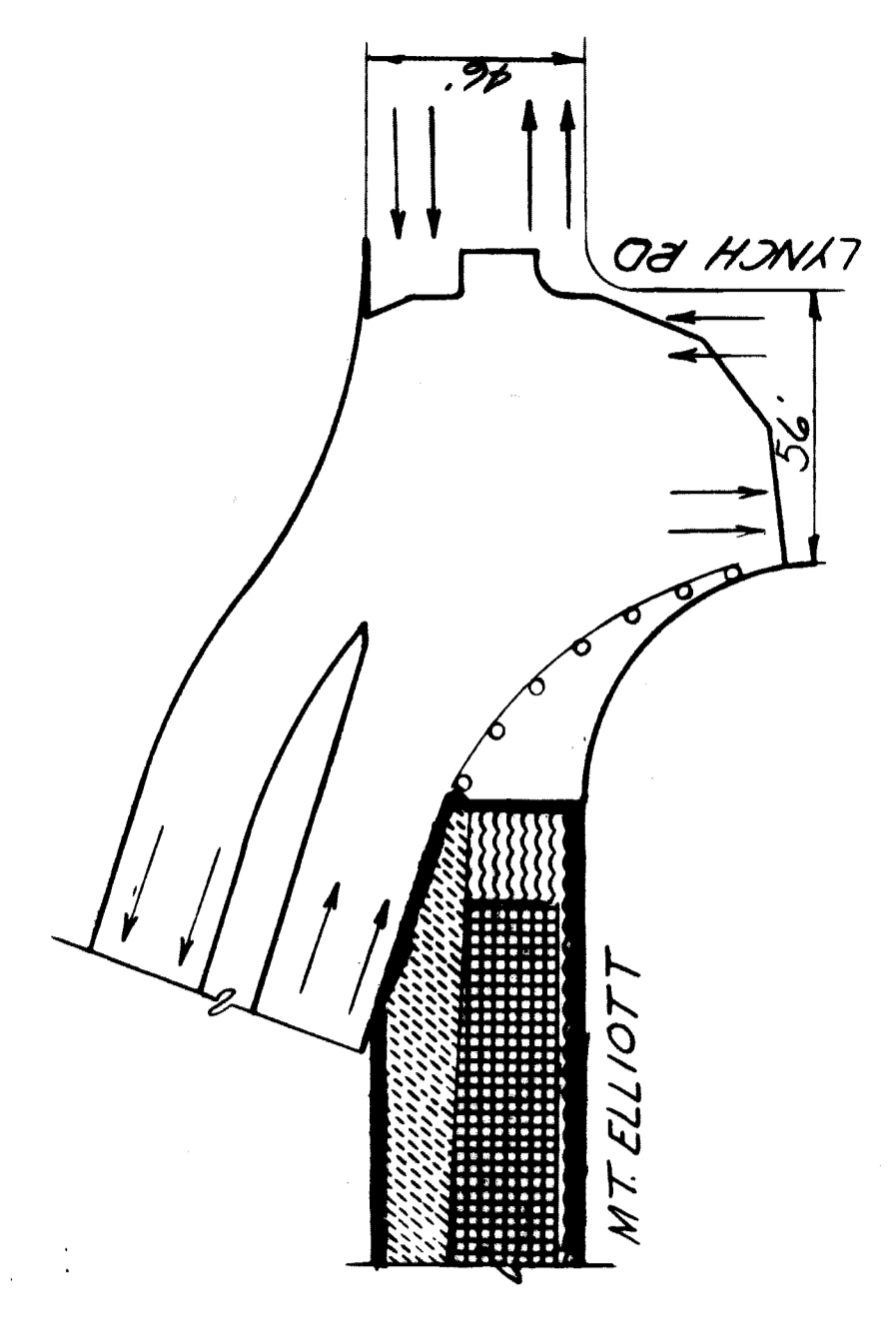
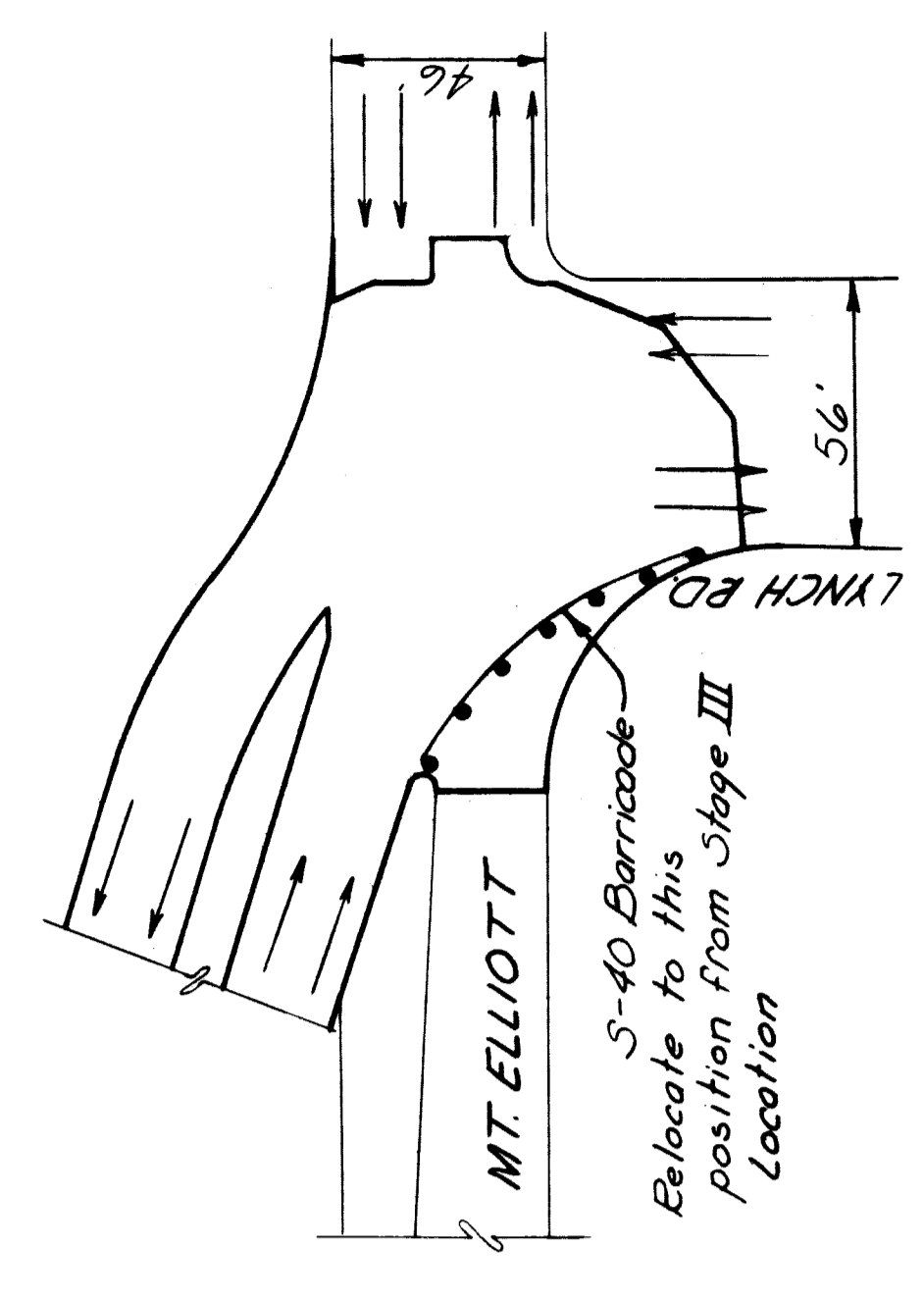
X0107-21



STAGE IV



STAGE V



STAGE VI

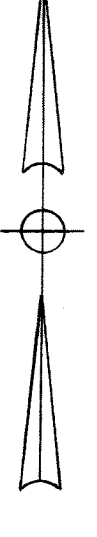
- LEGEND**
- New road construction - new pavement
 - Pavement resurfacing areas
 - Approach fill and pavement
 - Bridge structure and retaining walls
 - Strip and resurface
 - Proposed removal
 - Work which must be completed this stage
 - Work which can be performed under this stage, but which need not necessarily be completed in this stage
 - Existing incidental barricades
 - Existing S-40 barricade
 - Existing S-40 barricade modified
 - Direction of traffic in lanes
 - Incidental barricade
 - S-40 barricade
 - S-40 barricade modified

QUANTITIES	
ITEM	TOTALS
S-40 Barricade	350 Lin. Ft.
S-40 Barricade Modified	75 Lin. Ft.

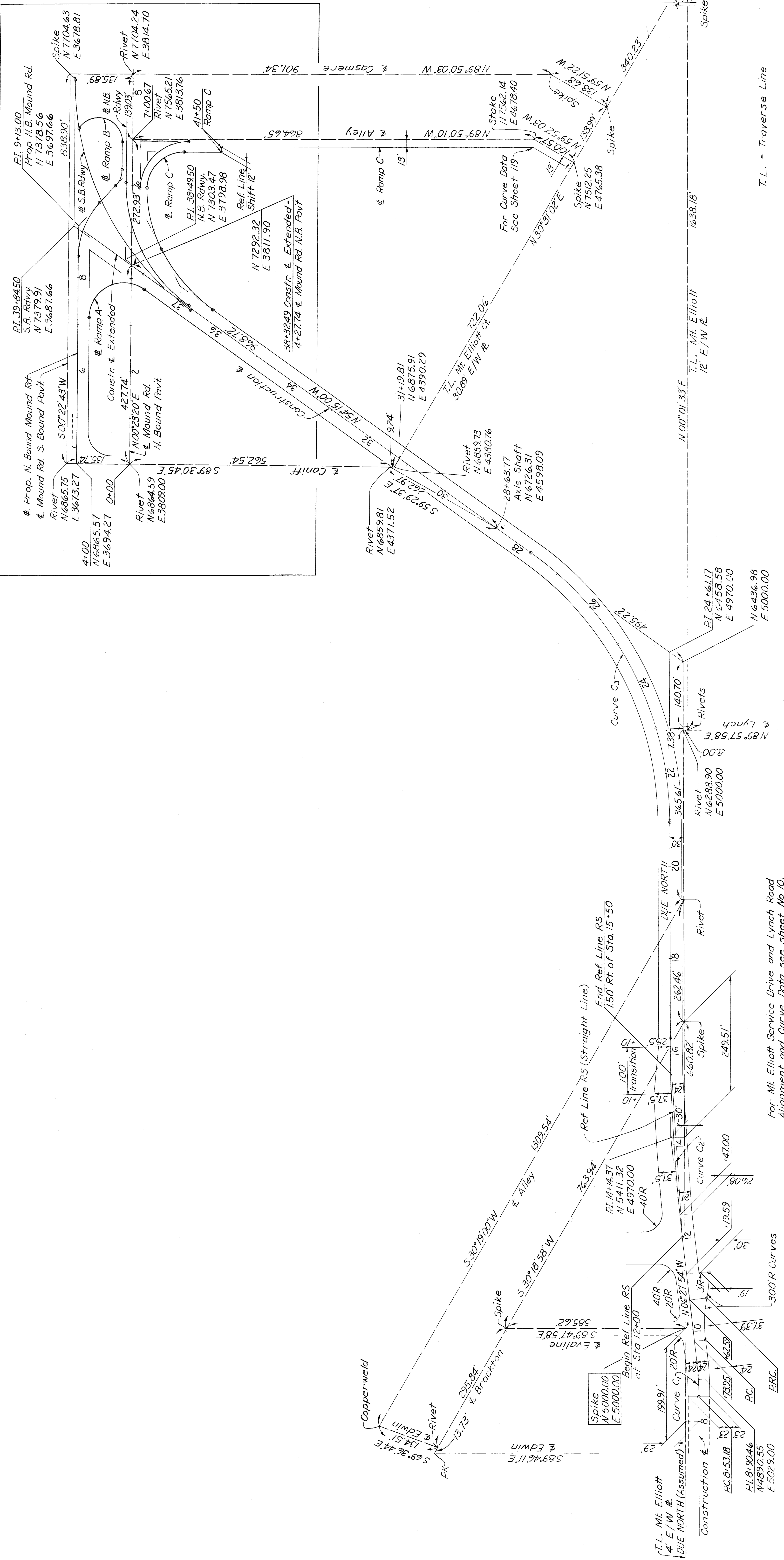
- LEGEND (Continued)**
- Sewer to be completed in this stage
 - Sewer on which work may proceed but which need not be completed in this stage
 - Sewer completed in a previous stage
 - Work completed under a previous stage (Heavy outline)

Stages shown on this sheet are the same as those stages shown on sheets 19 & 20.

<p>REVISIONS</p>	<p>APPROVED</p> <p><i>R. E. FOMKES</i> <small>SEAL</small> BOARD OF STRUCTURES AND ENGINEERS</p>	<p>DATE: 3-10-68</p>	<p>STATE PROJECT</p>	<p>COUNTY JOB</p>
<p>DRAG LEADER</p> <p>BY: <i>R. E. FOMKES</i></p> <p>TRACED BY: <i>M. J. JYRACK</i></p> <p>CHECKED BY: <i>M. J. JYRACK</i></p> <p>DATE: 3-10-68</p> <p>CONTRACT: <i>19420</i></p> <p>BOARD OF STRUCTURES AND ENGINEERS <small>COUNTY HIGHWAY ENGINEER</small></p>	<p>WAYNE COUNTY ROAD COMMISSIONERS</p> <p>DETROIT, MICHIGAN</p> <p>WILLIAM E. KREGER <small>COUNTY HIGHWAY ENGINEER</small></p>	<p>STATE FILE</p>	<p>BRIDGE</p>	<p>ROAD</p>
<p>PLANS PREPARED BY CITY OF DETROIT & HAZELET & ERDAL CONSULTING ENGINEERS</p>		<p>MT. ELLIOTT - MOUND ROAD CONSTRUCTION SEQUENCE</p>		
<p>BOARD OF COUNTY ROAD COMMISSIONERS</p> <p>DETROIT, MICHIGAN</p> <p>WILLIAM E. KREGER <small>COUNTY HIGHWAY ENGINEER</small></p>		<p>STATE PROJECT</p>	<p>COUNTY JOB</p>	<p>ISSUE NO. 1</p>
<p>WAYNE COUNTY ROAD COMMISSIONERS</p> <p>DETROIT, MICHIGAN</p> <p>WILLIAM E. KREGER <small>COUNTY HIGHWAY ENGINEER</small></p>		<p>STATE PROJECT</p>	<p>COUNTY JOB</p>	<p>ISSUE NO. 1</p>
<p>WAYNE COUNTY ROAD COMMISSIONERS</p> <p>DETROIT, MICHIGAN</p> <p>WILLIAM E. KREGER <small>COUNTY HIGHWAY ENGINEER</small></p>		<p>STATE PROJECT</p>	<p>COUNTY JOB</p>	<p>ISSUE NO. 1</p>



For additional Alignment and Curve Data in this area, see sheet No.9



For Mt. Elliott Service Drive and Lynch Road Alignment and Curve Data, see sheet No. 10.

For Mt. Elliott - Mound Rd Connection Curve Data, see sheets No. 6, 7, & 9.

For Coordinates of Pier and Abutment Reference Points, see sheet No. 307.

HAZELET & ERDAL CONSULTING ENGINEERS

STATE PROJECT
ROAD

STATE FILE

BOARD OF
WAYNE COUNTY ROAD COMMISSIONERS
DETROIT, MICHIGAN

PHILIP J. NEUDECK
WILLIAM E. KREGER
MICHAEL BERRY

APPROVED
ENGINEER OF STRUCTURES AND EXPRESSWAYS

REVISIONS

NO.	DATE	BY	REASON
1	1-68	J.H.S.	CHECKED BY
2		J.H.S.	DESIGNED BY
3		J.H.S.	CHECKED BY
4		J.H.S.	DESIGNED BY
5		J.H.S.	CHECKED BY
6		J.H.S.	DESIGNED BY

STATE PROJECT
ROAD

STATE FILE

COUNTY JOB
246

ISSUE NO. 1
SHEET NO. 23

DATE: 1-23-68

X0107-23