

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS

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

IN CO-OPERATION WITH MICHIGAN DEPARTMENT OF STATE HIGHWAYS

AND FEDERAL HIGHWAY ADMINISTRATION

PLAN AND PROFILE OF PROPOSED

FEDERAL AID TOPICS PROJECT NO. MICHIGAN T 4000 (10)

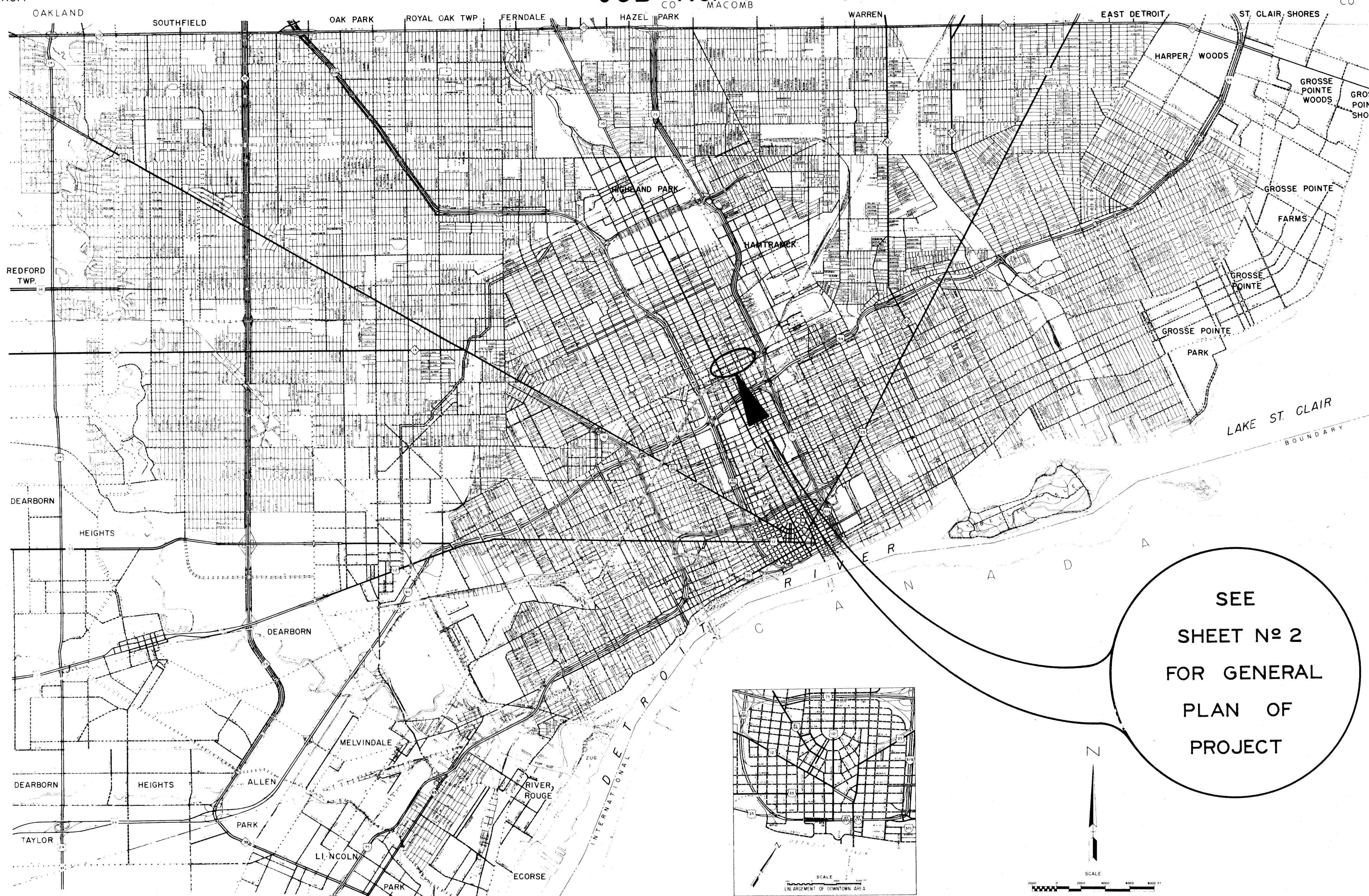
JOB NO. 04550A

B.P.R. DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			1	82
STREET	CITY	COUNTY	TWP.	SHEET NO.	TOTAL SHEETS
	DETROIT	WAYNE		1	82

- INDEX OF SHEETS**
1. TITLE SHEET
 2. GENERAL PLAN
 3. TYPICAL CROSS SECTION
 - 4-8. CONSTRUCTION SEQUENCE
 - 9-10. REMOVALS
 - 11-18. PLAN & PROFILE
 - 19-23. DETAILED GRADES
 - 24-25. UTILITIES
 26. WATER ALTERATIONS
 27. LAWN WATERING SYSTEM
 28. P.L.C. TRANSFORMER VAULT
 - 29-32. SPECIAL & MISC. DETAILS
 33. P.L.C. LEGEND & NOTES
 - 34-36. P.L.C. GENERAL PLANS
 - 37-39. P.L.C. WIRING DIAGRAMS
 - 40-49. P.L.C. TRAFFIC SIGNALS
 - 50-79. P.L.C. DETAILS
 80. QUANTITY SHEET - ROADWAY & MISC.
 - 81-82. QUANTITY SHEETS - P.L.C.
 - 83-86. LANDSCAPING (CITY OF DETROIT FORCES)
 - 87-92. TRAFFIC SIGNALS (CITY OF DETROIT FORCES)

STANDARD PLANS

- II - 39A
- II - 40A
- II - 43A
- II - 45A
- IV - 83A
- IV - 84A
- VII - 125A
- E-4-A-127C
- E-6-A-56

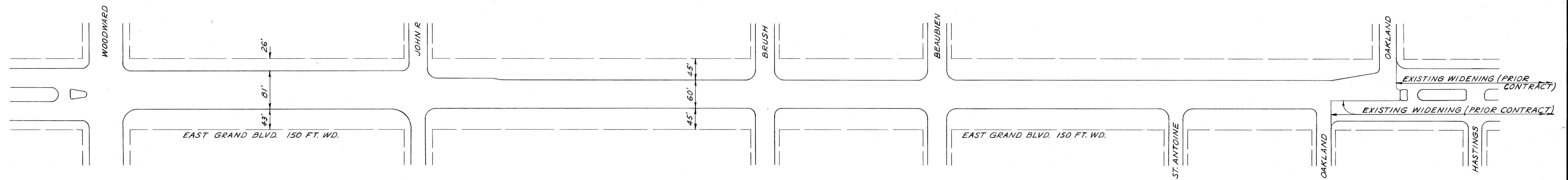


SEE
SHEET No 2
FOR GENERAL
PLAN OF
PROJECT

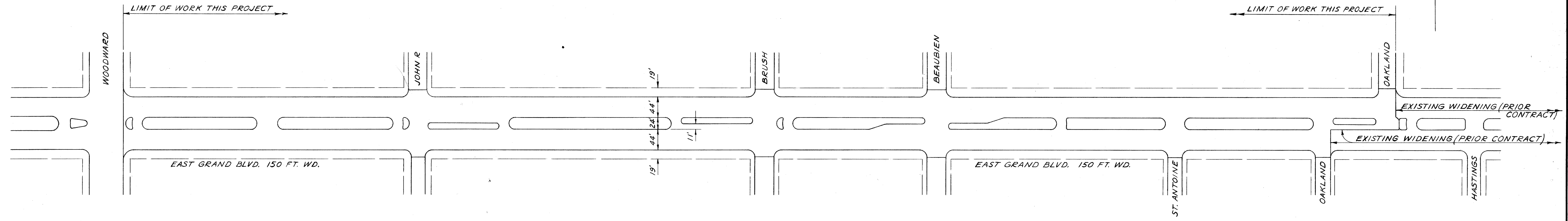
CONTRACT FOR PAVEMENT RECONSTRUCTION	
LOCAL AUTHORITY APPROVAL CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS <small>GOVERNMENTAL AGENCY</small>	
RECOMMENDED FOR APPROVAL	<i>Alan J. Pagan</i> HIGHWAY ENGINEER DATE: 4-14-72
APPROVED BY	<i>R. P. Hicks</i> ASST CITY ENGINEER DATE: 3-16-72
APPROVED BY	<i>Tom W. W...</i> CITY ENGINEER DATE: 3-16-72
LOCAL AUTHORITY APPROVAL CITY OF DETROIT DEPARTMENT OF STREETS AND TRAFFIC <small>GOVERNMENTAL AGENCY</small>	
APPROVED BY	<i>A. J. M...</i> DIRECTOR OF DEPT. OF STREETS & TRAFFIC DATE:
RECOMMENDED FOR APPROVAL	
BY	<i>J. H. Cooper</i> ENGINEER OF TRAFFIC AND SAFETY DATE: 4-7-72
BY	<i>W. J. ...</i> CONSTRUCTION ENGINEER DATE: 4-10-72
BY	<i>John W. ...</i> F.A.S. ENGINEER DATE: 4-10-72
PLANS CHECKED BY	<i>W. J. ...</i> DATE:
DEPARTMENT OF STATE HIGHWAYS APPROVAL	
APPROVED FOR COMMISSION	
BY	<i>John ...</i> DEPUTY DIRECTOR DATE: 4/11/72
PREPARED UNDER SUPERVISION OF	
	<i>R. P. Hicks</i> REGISTERED PROFESSIONAL ENGINEER REGISTRATION NO. 8435
CITY OF DETROIT <small>ORGANIZATION</small>	
DETROIT, MICHIGAN <small>ADDRESS</small>	
(SEAL)	
U. S. DEPARTMENT OF TRANSPORTATION <small>FEDERAL HIGHWAY ADMINISTRATION</small>	
APPROVED	_____ DISTRICT ENGINEER DATE:

FILE NO. T4000 (10)	STATE PROJECT	FEDERAL PROJECT	SHEET NO. 1	TOTAL SHEETS 82
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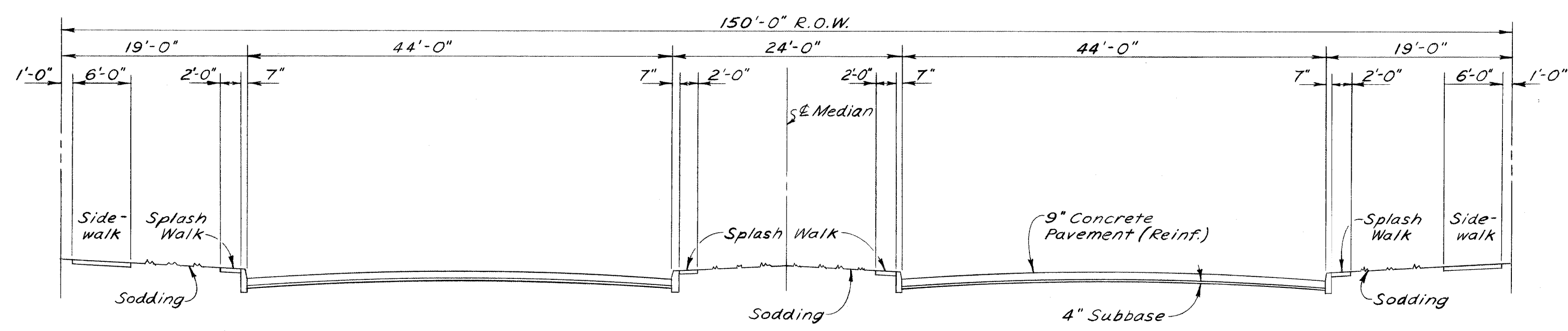
T4000(10) JOB NO. 04550A



PLAN OF EXISTING EAST GRAND BLVD.
WOODWARD TO OAKLAND
Scale: 1"=100'



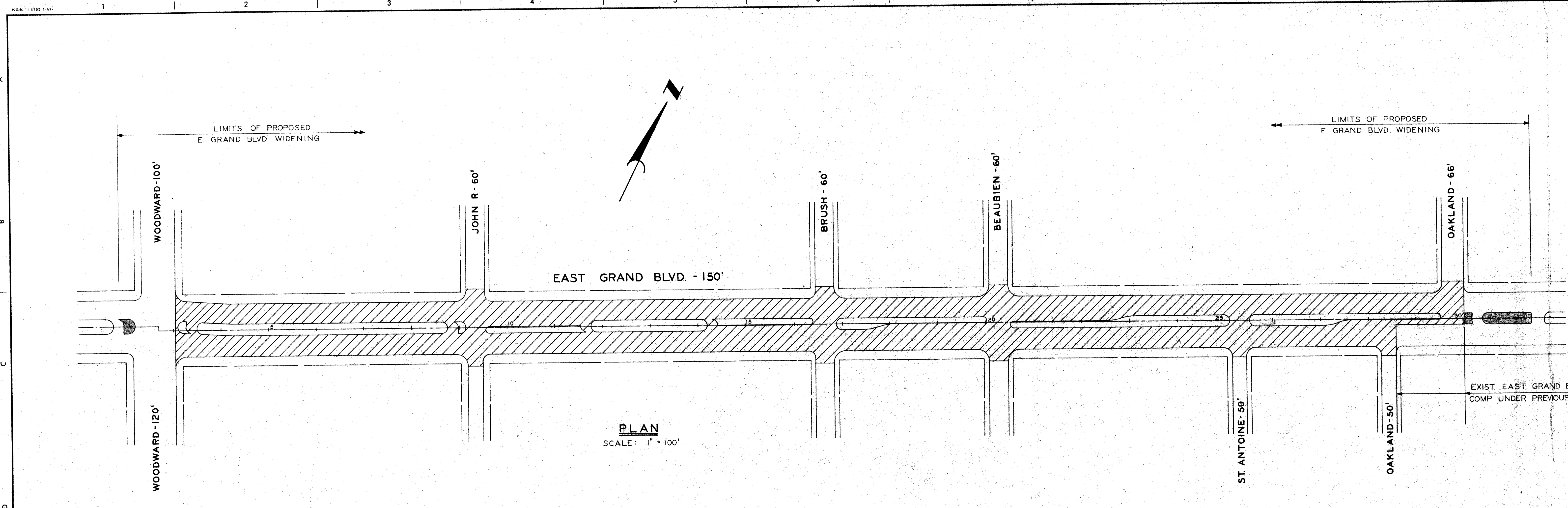
PLAN OF PROPOSED WIDENING OF EAST GRAND BLVD.
WOODWARD TO OAKLAND
Scale: 1"=100'



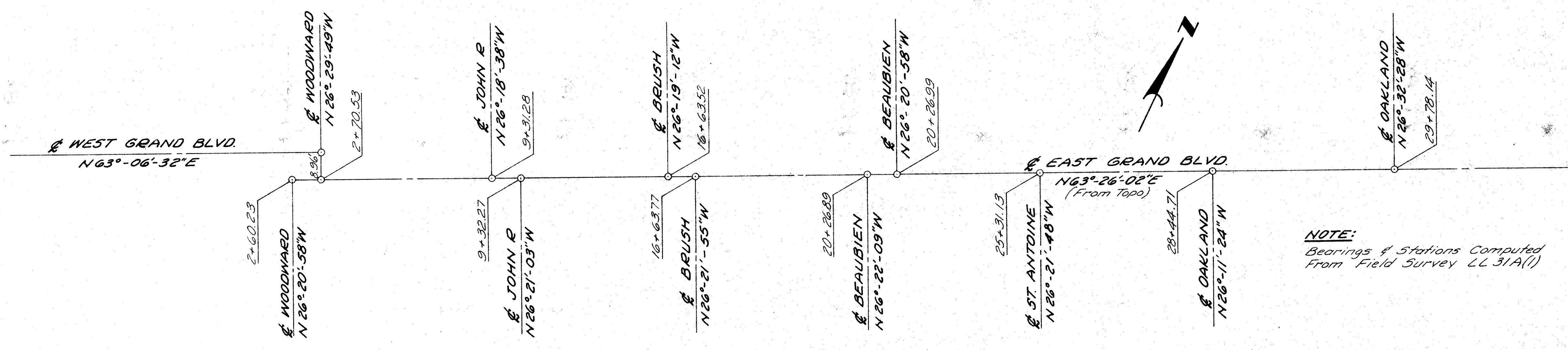
TYPICAL CROSS SECTION

<table border="1"> <tr> <td>DESIGNED BY</td> <td>D. Milz</td> </tr> <tr> <td>DRAWN BY</td> <td></td> </tr> <tr> <td>TRACED BY</td> <td></td> </tr> <tr> <td>CHECKED BY</td> <td></td> </tr> </table>		DESIGNED BY	D. Milz	DRAWN BY		TRACED BY		CHECKED BY		<table border="1"> <tr> <td>APPROVED:</td> <td></td> </tr> <tr> <td>ENGINEER OF EXPRESSWAYS</td> <td></td> </tr> <tr> <td>ADMINISTRATIVE ENGINEER</td> <td></td> </tr> <tr> <td>HEAD CIVIL ENGINEER</td> <td></td> </tr> </table>	APPROVED:		ENGINEER OF EXPRESSWAYS		ADMINISTRATIVE ENGINEER		HEAD CIVIL ENGINEER		<p align="center">CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE FOR</p>	<p align="center">EAST GRAND BOULEVARD WOODWARD TO OAKLAND</p>	<table border="1"> <tr> <td>SHEET 1 OF 1 SHEETS</td> </tr> <tr> <td>CONTRACT No.</td> </tr> <tr> <td>DRWG No.</td> </tr> <tr> <td>DATE July 29, 1970</td> </tr> </table>	SHEET 1 OF 1 SHEETS	CONTRACT No.	DRWG No.	DATE July 29, 1970
DESIGNED BY	D. Milz																								
DRAWN BY																									
TRACED BY																									
CHECKED BY																									
APPROVED:																									
ENGINEER OF EXPRESSWAYS																									
ADMINISTRATIVE ENGINEER																									
HEAD CIVIL ENGINEER																									
SHEET 1 OF 1 SHEETS																									
CONTRACT No.																									
DRWG No.																									
DATE July 29, 1970																									

COORD	DESCRIPTION	DRN	CKD	APVD	DATE



PLAN
SCALE: 1" = 100'



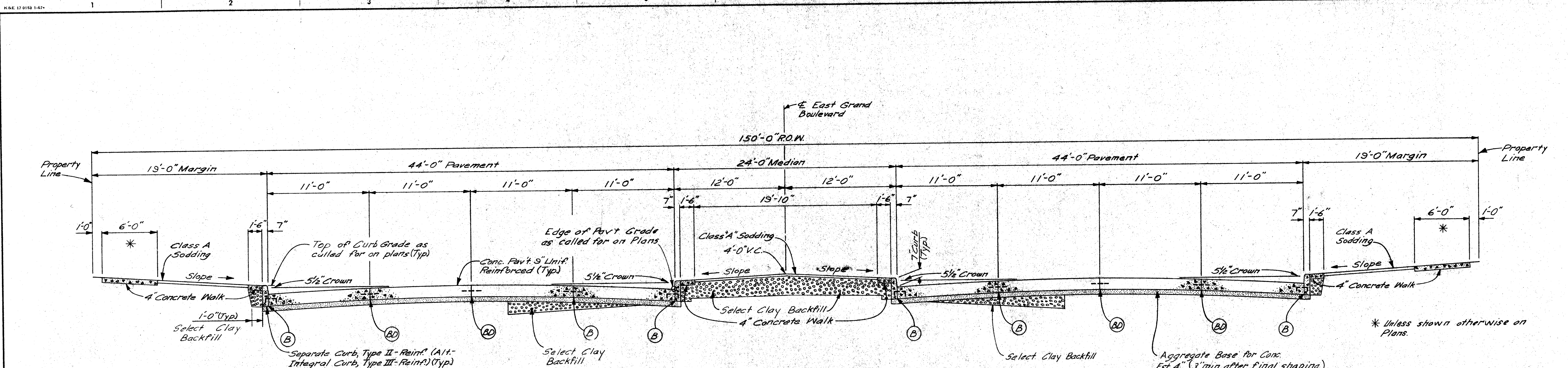
ALIGNMENT DIAGRAM
NO SCALE

NOTE:
Bearings & Stations Computed
From Field Survey LL 31A(1)

DESIGNED BY DRAWN BY <i>M.A.P./M.S.</i> TRACED BY CHECKED BY <i>R.B.P.</i>		APPROVED: <i>Allen E. Rosen</i> ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	GENERAL PLAN EAST GRAND BOULEVARD WIDENING WOODWARD TO OAKLAND	SHEET <u>2</u> OF <u>82</u> SHEETS PROJECT No. T 4000 (10) DATE 3-24-72
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NO.	DESCRIPTION	DRN	CHK	AP'D	DATE

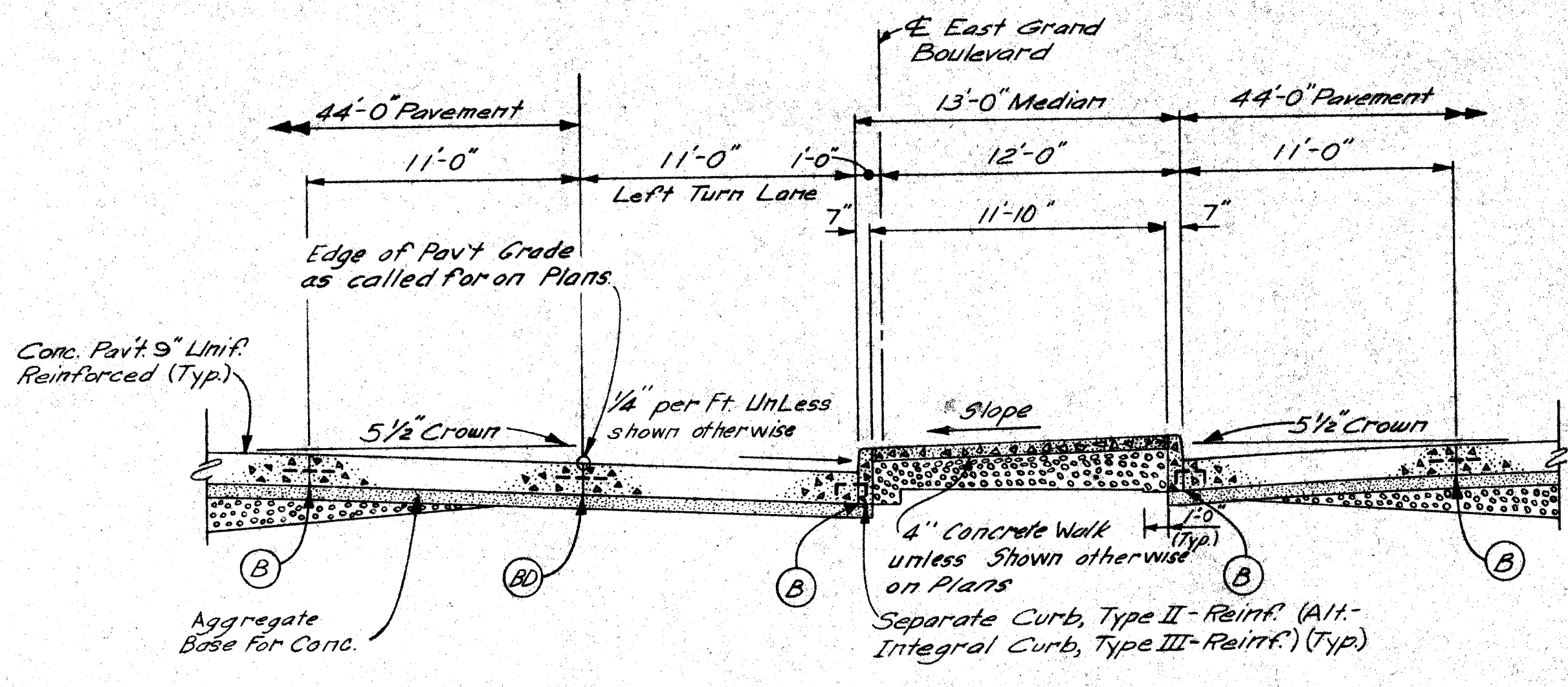
REVISIONS LOCATED BY COORDINATES ON SHEET



TYPICAL CROSS-SECTION
 SCALE: HOR. 1" = 5'
 VERT. 1" = 3'

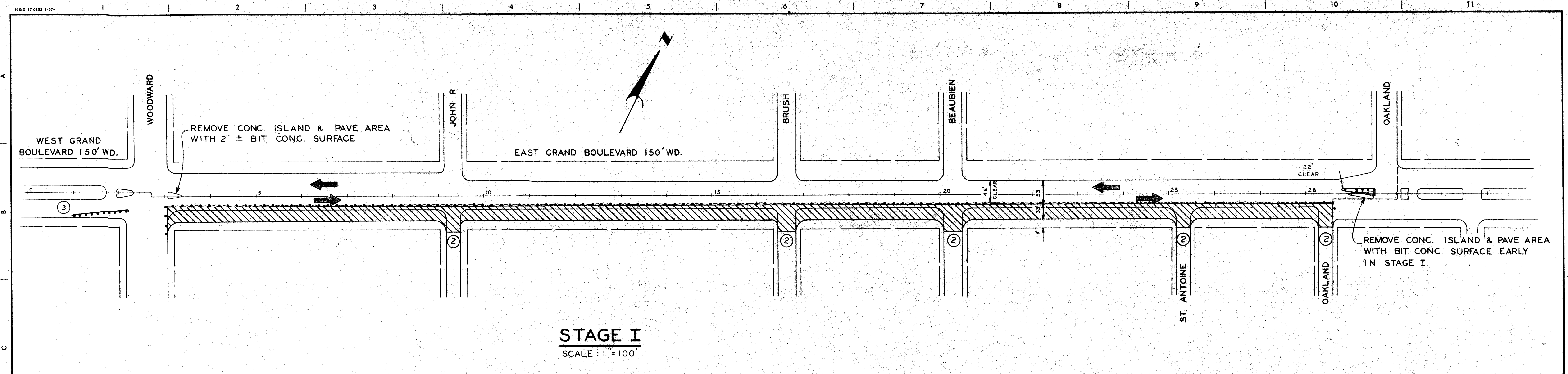
Distance from E in feet	Crown in inches	Distance from E in feet	Crown in inches
1	0	12	1 7/8
2	1/16	13	1 9/16
3	1/8	14	2 1/4
4	3/16	15	2 5/8
5	1/4	16	2 3/4
6	5/16	17	3 1/8
7	3/8	18	3 1/2
8	7/16	19	4 1/8
9	1/2	20	4 3/8
10	9/16	21	5
11	1 1/8	22	5 1/2

TYPICAL SLOPES
 1/4" per ft. minimum
 3/8" per ft. desirable
 3/4" per ft. maximum - sidewalk
 1" per ft. maximum - berm

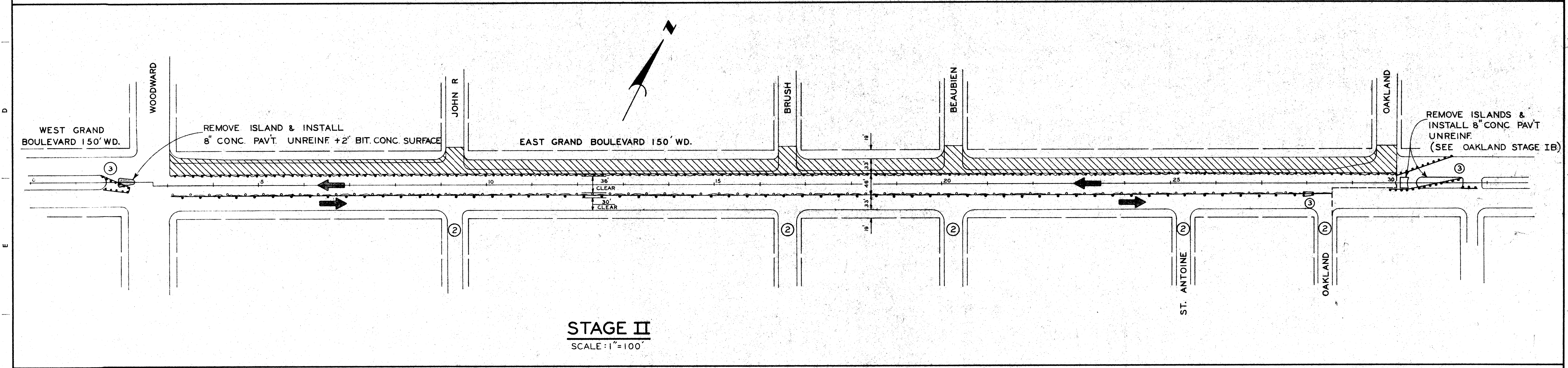


TYPICAL CROSS-SECTION WITH LEFT TURN LANE
 SCALE: HOR. 1" = 5'
 VERT. 1" = 3'

REFERENCE DRAWINGS DESIGNED BY DRAWN BY <i>J.R.D.</i> TRACED BY CHECKED BY <i>RBP</i>		APPROVED: ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	TYPICAL CROSS-SECTIONS EAST GRAND BOULEVARD WIDENING WOODWARD TO OAKLAND	SHEET <u>3</u> OF <u>82</u> SHEETS PROJECT No. T4000 (10) DRWG No. DATE 3-24-72
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STAGE I
SCALE: 1" = 100'



STAGE II
SCALE: 1" = 100'

STAGE I

1. TRAFFIC ON EXISTING E. GRAND BLVD. PAV'T.
2. CONSTRUCT SOUTH 33' OF PROPOSED E. GRAND BLVD. PAV'T.

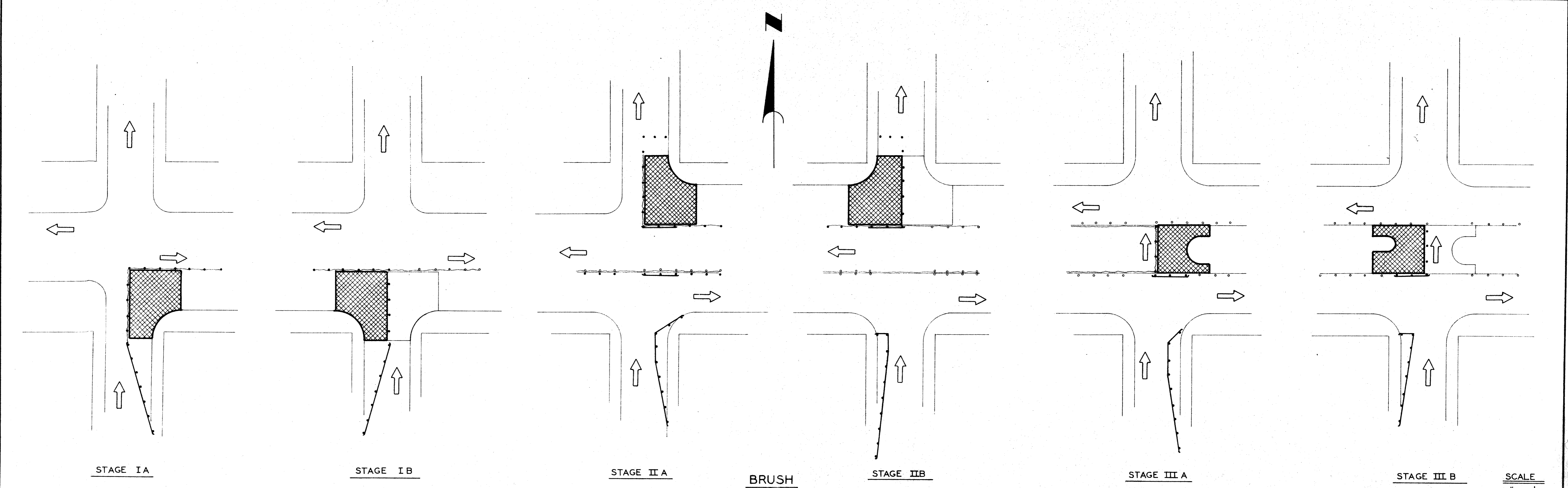
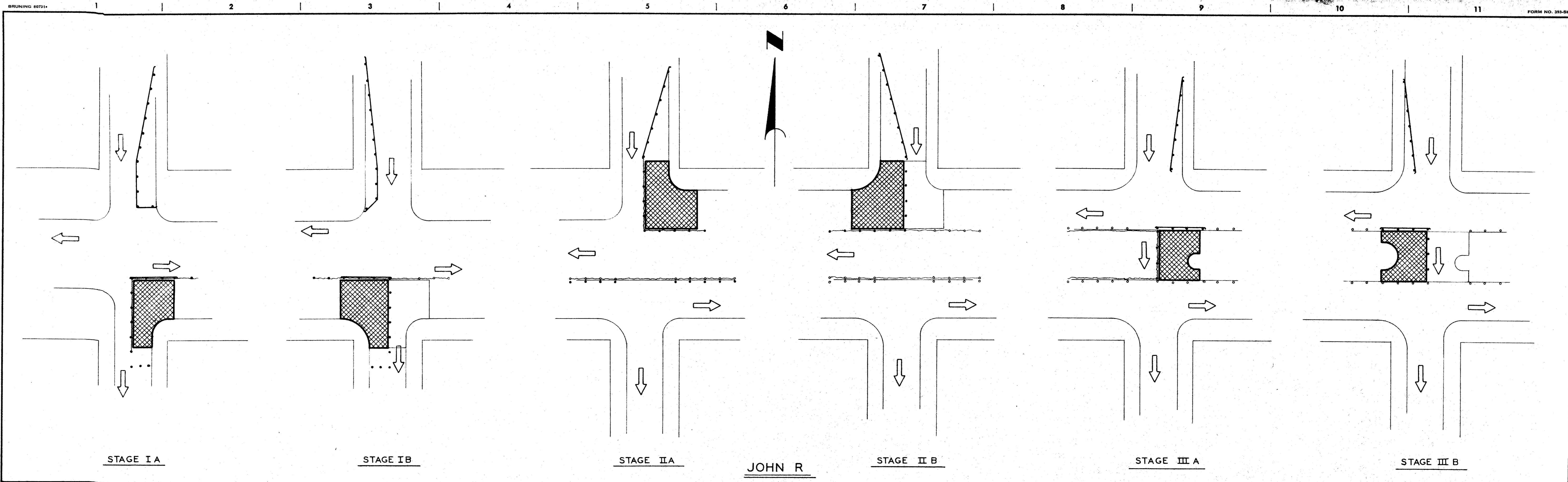
STAGE II

1. WEST BOUND TRAFFIC ON EXISTING E. GRAND BLVD. PAV'T.
EAST BOUND TRAFFIC ON NEW E. GRAND BLVD. PAV'T.
2. CONSTRUCT NORTH 33' OF PROPOSED E. GRAND BLVD. PAV'T.

NOTES:

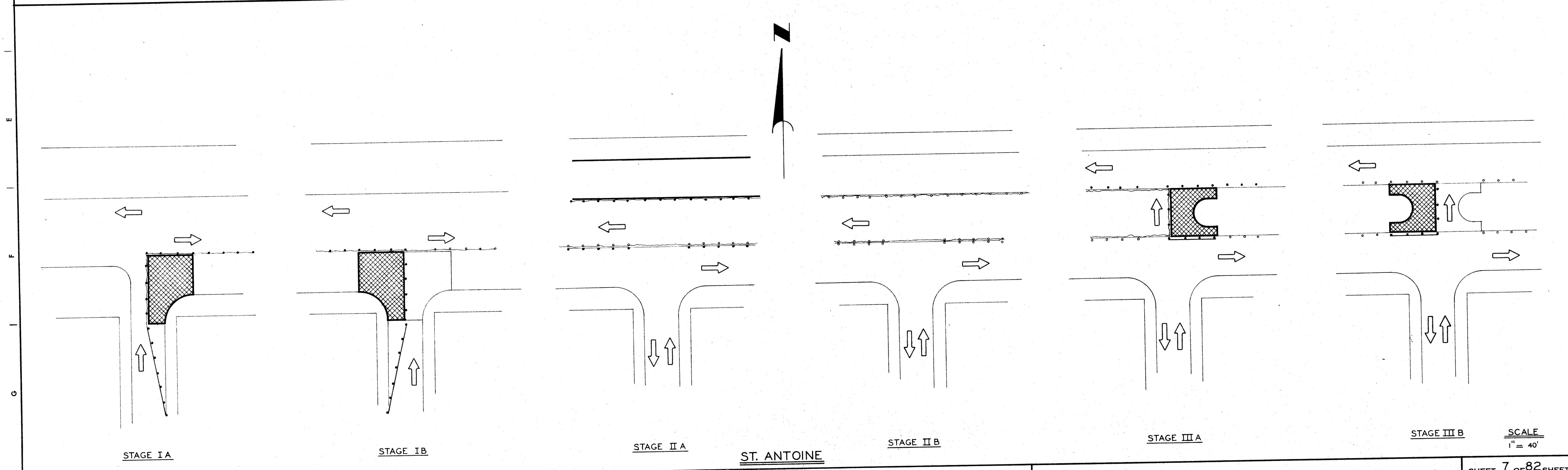
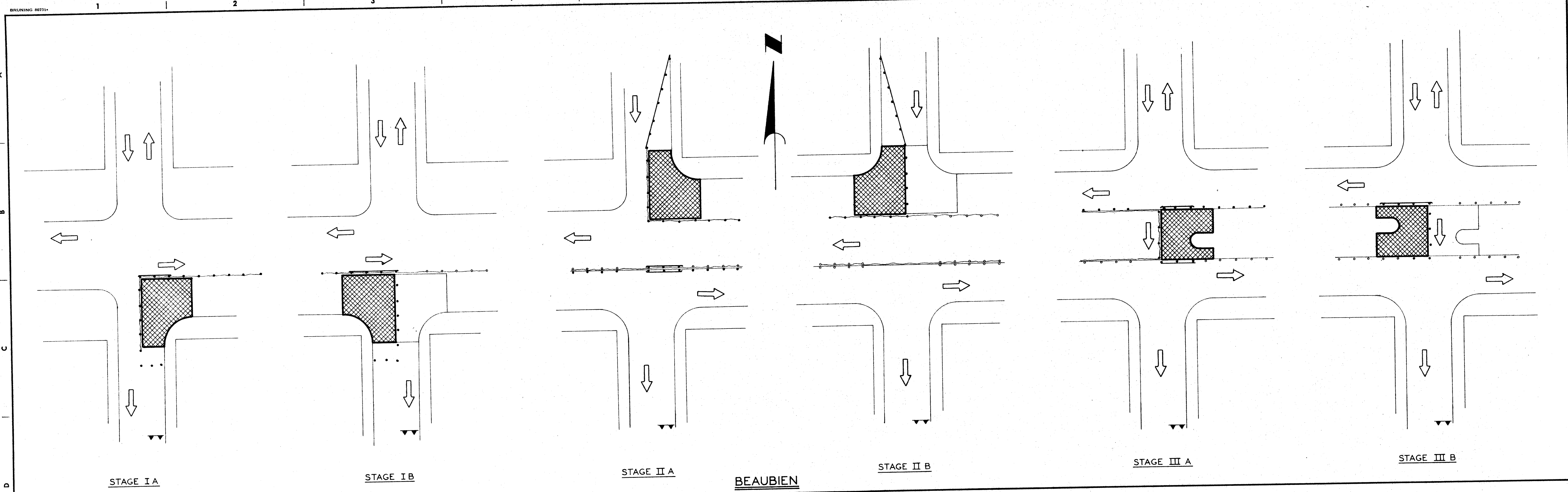
- ① SEE SHEET NO. 5 FOR LEGEND.
- ② SEE CONSTRUCTION SEQUENCE INTERSECTION DETAILS FOR SUB-STAGES AT INTERSECTIONS.
- ③ ANCHOR END OF BEAM ELEMENT TO BOTTOM OF BARRELS AT ENDS EXPOSED TO HEAD ON TRAFFIC.
- ④ SEE SHEET NO. 5 FOR QUANTITIES FOR ALL STAGES.

DESIGNED BY	M.S.	APPROVED:	<i>Allen E. Rogers</i>	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE				CONSTRUCTION SEQUENCE EAST GRAND BOULEVARD WOODWARD TO OAKLAND
DRAWN BY		ENGINEER OF EXPRESSWAYS						
TRACED BY								
CHECKED BY	RSP			SHEET 4 OF 82 SHEETS PROJECT No. T4000 (10) DRWG No. DATE 3-24-72				



COORD DESCRIPTION DWN CK'D AP'D DATE REVISIONS LOCATED BY COORDINATES ON SHEET		REFERENCE DRAWINGS	DESIGNED BY DRAWN BY <i>M.S.</i> TRACED BY CHECKED BY <i>R.H.</i>	APPROVED: <i>Allen E. Proyer</i> ENGINEER OF EXPRESSWAYS	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	CONSTRUCTION SEQUENCE - INTERSECTION DETAILS EAST GRAND BOULEVARD WOODWARD TO OAKLAND	SHEET <u>6</u> OF <u>82</u> SHEETS PROJECT No. T 4000 (10) DRWG No. DATE 3-24-72
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SCALE
1" = 40'



NO.	DESCRIPTION	DATE

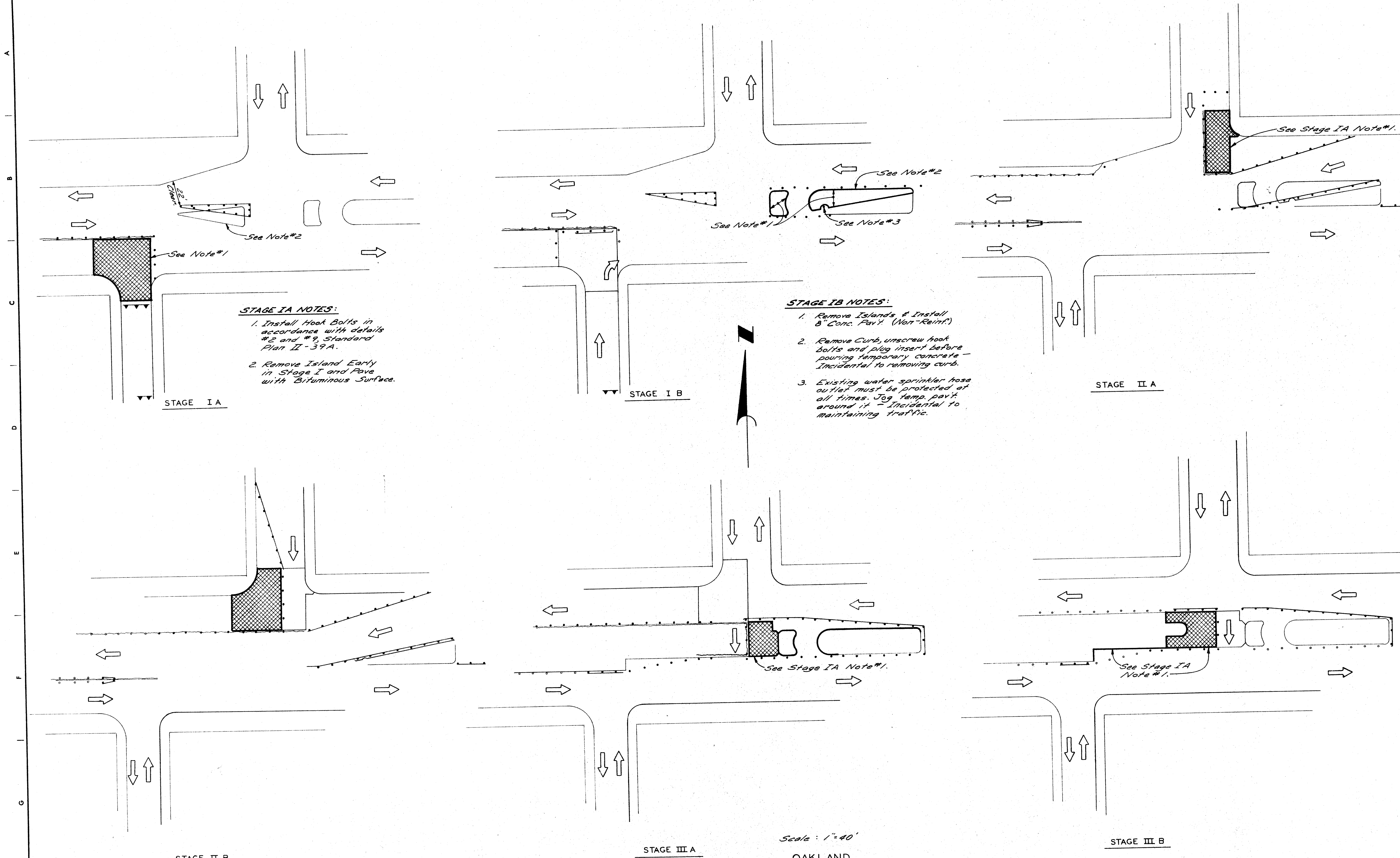
DESIGNED BY	M.S.
DRAWN BY	M.S.
TRACED BY	
CHECKED BY	RBP

APPROVED:
Alan E. Progne
 ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

CONSTRUCTION SEQUENCE INTERSECTION DETAILS
 EAST GRAND BOULEVARD
 WOODWARD TO OAKLAND

SHEET	7	OF	82	SHEETS
PROJECT	No. T 4000 (10)			
DRWG No.				
DATE	3-24-72			



Scale: 1"=40'

OAKLAND

DESIGNED BY	M.S.
DRAWN BY	M.S.
TRACED BY	
CHECKED BY	RBP

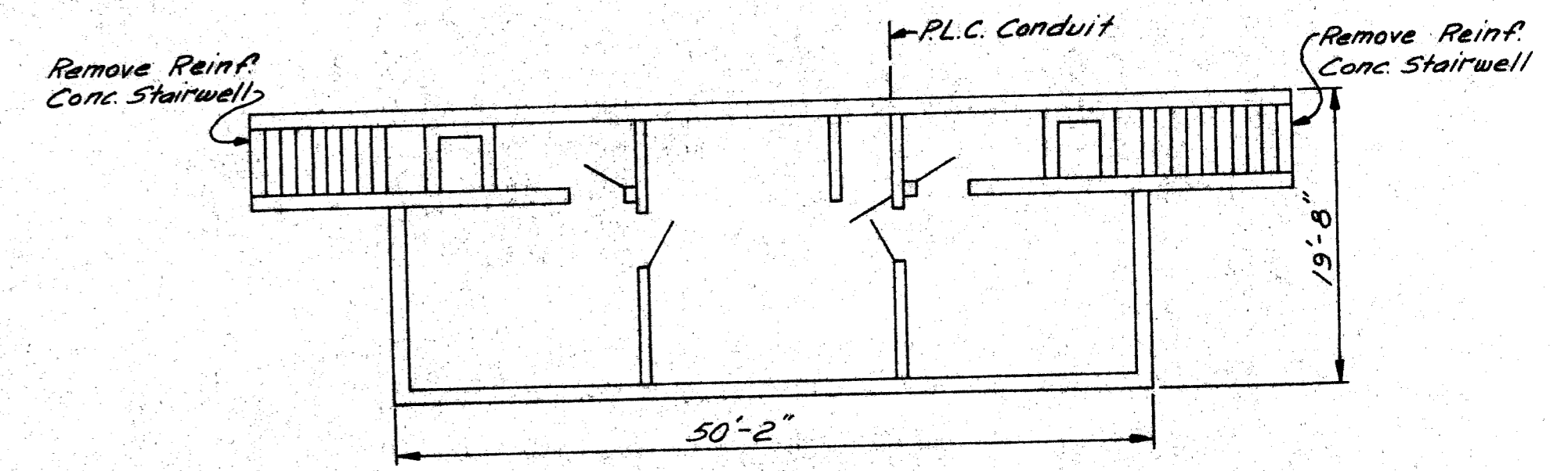
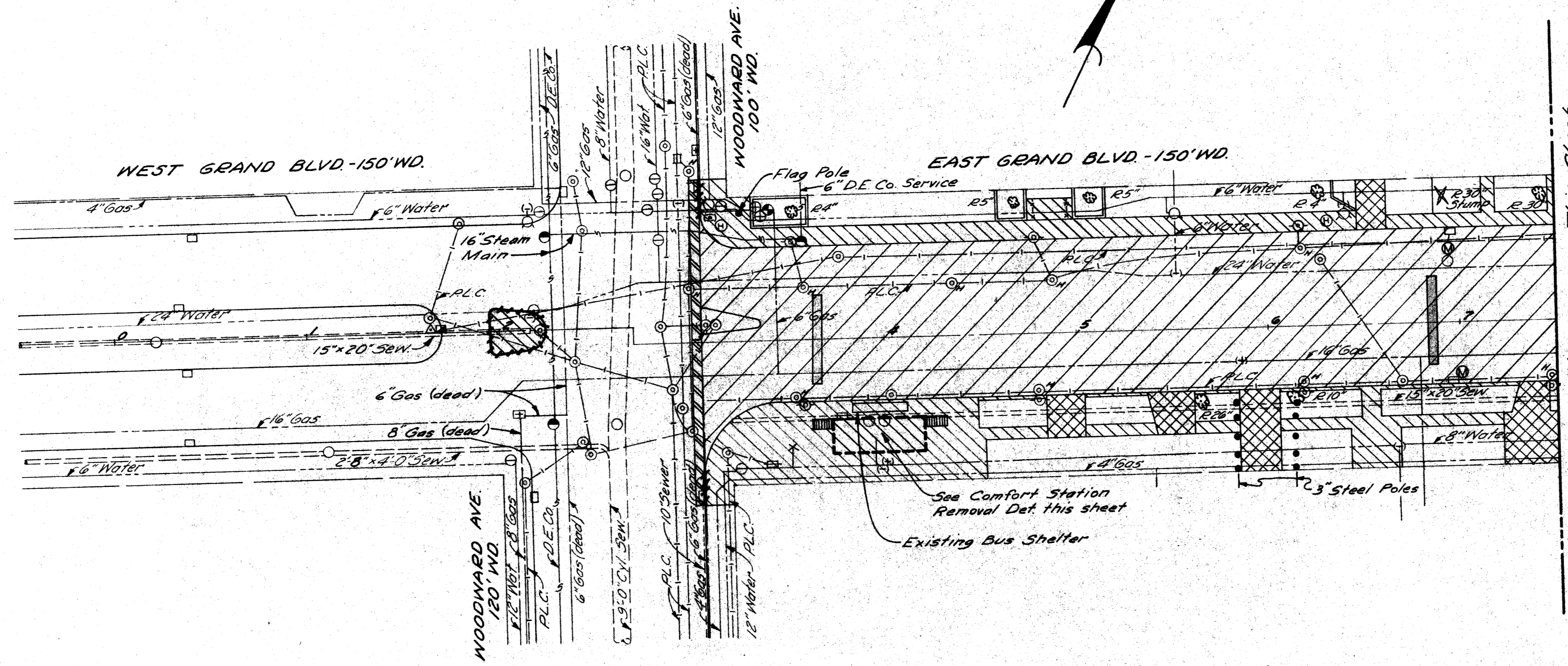
APPROVED:

 ENGINEER OF EXPRESSWAYS

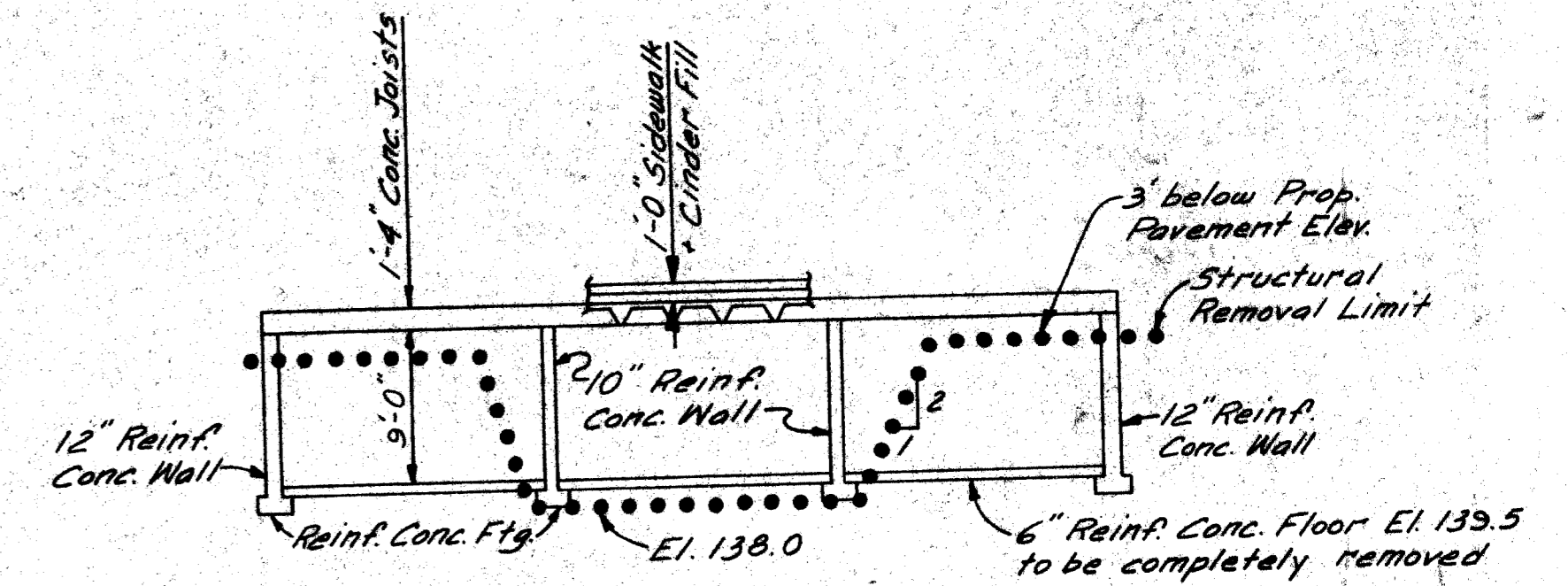
CITY OF DETROIT
 DEPARTMENT OF PUBLIC WORKS
 CITY ENGINEERS OFFICE

CONSTRUCTION SEQUENCE INTERSECTION DETAILS
 EAST GRAND BOULEVARD
 WOODWARD TO OAKLAND

SHEET	8	OF	82	SHEETS
PROJECT NO.	T4000(10)			
DRWG NO.				
DATE	3-24-72			

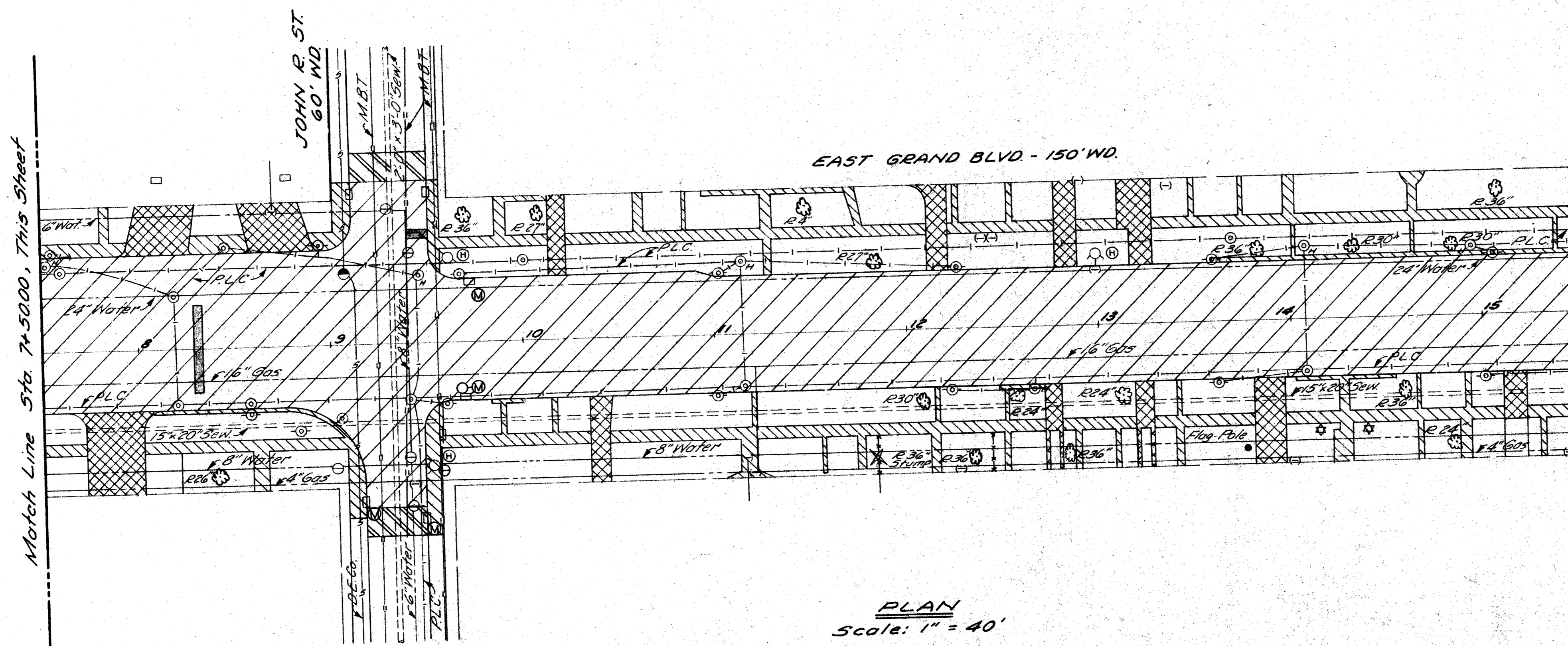


FLOOR PLAN



CROSS SECTION

COMFORT STATION
REMOVAL DETAIL
SCALE: 1" = 10'



PLAN
Scale: 1" = 40'

- NOTES:
1. For Removal Legend, See Sh.# 10.
 2. For Utility Legend and Symbols, See Sh.# 10 & Sh.# 30.
 3. The removal of trees less than 8" in diameter is incidental to the contract.
 4. Where Removing Bituminous is required, the existing bituminous surface shall be removed to a depth of approx. 2 inches below finished grade, or as directed by the Engineer.

DESIGNED BY	MAP/J.R.D.
DRAWN BY	MAP/J.R.D.
TRACED BY	
CHECKED BY	R.B.D.
APPROVED:	<i>Allen E. Pagan</i> ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

REMOVALS
EAST GRAND BOULEVARD WIDENING
WOODWARD AVE. TO STA. 15+ 50.00

SHEET 9 OF 82 SHEETS
PROJECT No. T 4000 (10)
DRWG No.
DATE 3-24-72

LUTILITY LEGEND

- PL.C. Handhole
- Electric Outlet
- Gas Vent
- Traffic Signal Control
- Flood Light
- Sprinkler

Note: For Standard Symbols for Utilities, See SH#30.

REMOVAL LEGEND

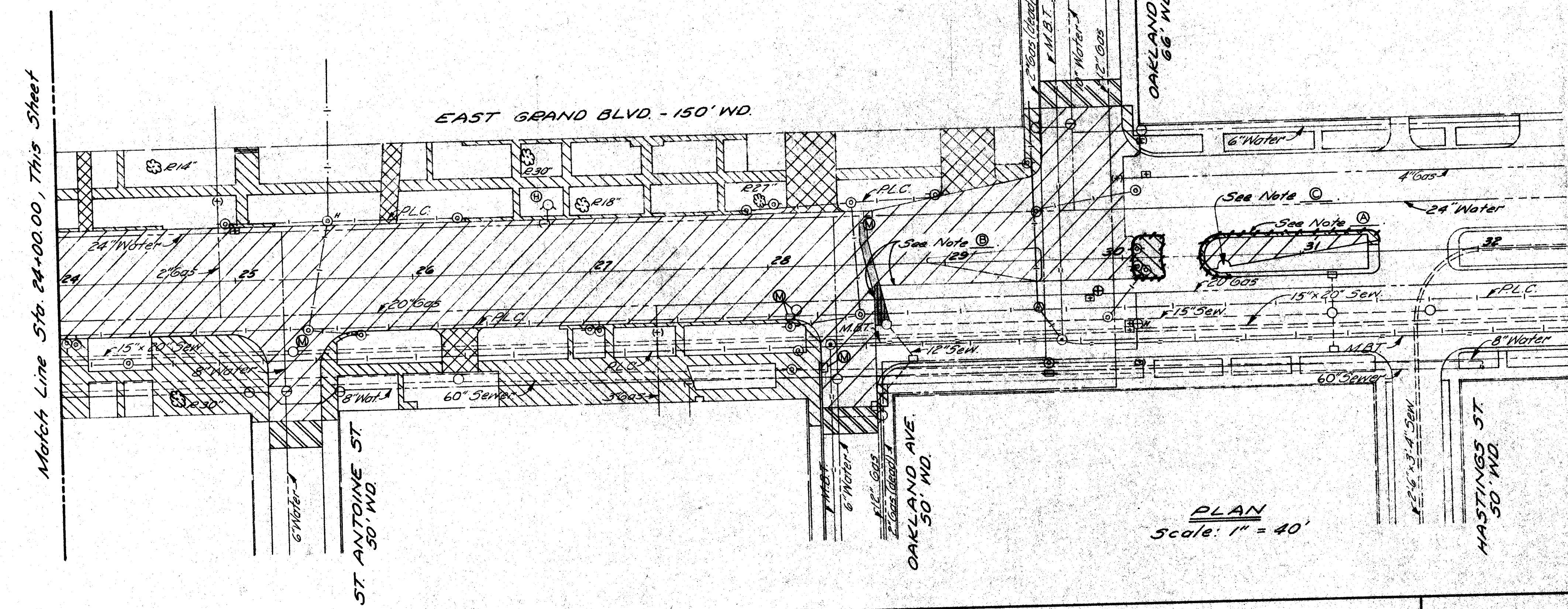
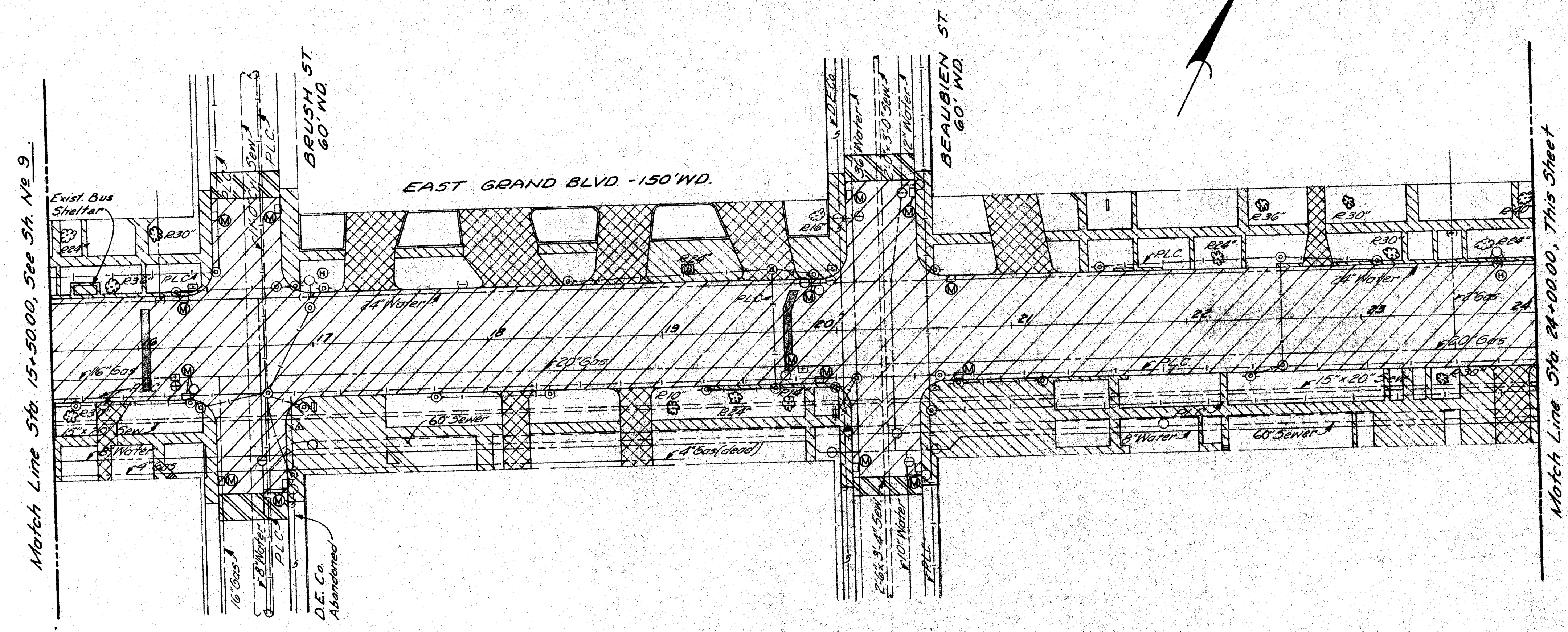
- Removing Trees
- Removing Stumps
- Abandoning Drainage Structures
- Removing Hydrants
- Removing Curb
- Removing Old Pavement
- Removing Driveways *
- Removing Sidewalks
- Removing Bituminous Surface
- Removing Old Pav't. (Patching) with Conc. Pav't. Patching
- Removing Old Pav't. (Patching) with Pavement Replacement

* Paid for as removing old pavement.

NOTES:

- (A) Remove curb, unscrew hook bolts and plug insert before pouring temporary concrete - Incidental to removing curb.
- (B) Install hook bolts in accordance with details #2 and #9, Standard Plan II-39A.
- (C) Existing water sprinkler hose outlet must be protected at all times. Jog temp. pavement around it - Incidental to maintaining traffic.

1. The removal of trees less than 8" in diameter is incidental to the contract.
2. Where Removing Bituminous is required, the existing bituminous surface shall be removed to a depth of approx. 2 inches below finished grade, or as directed by the Engineer.



PLAN
Scale: 1" = 40'

NO.	DESCRIPTION	DATE

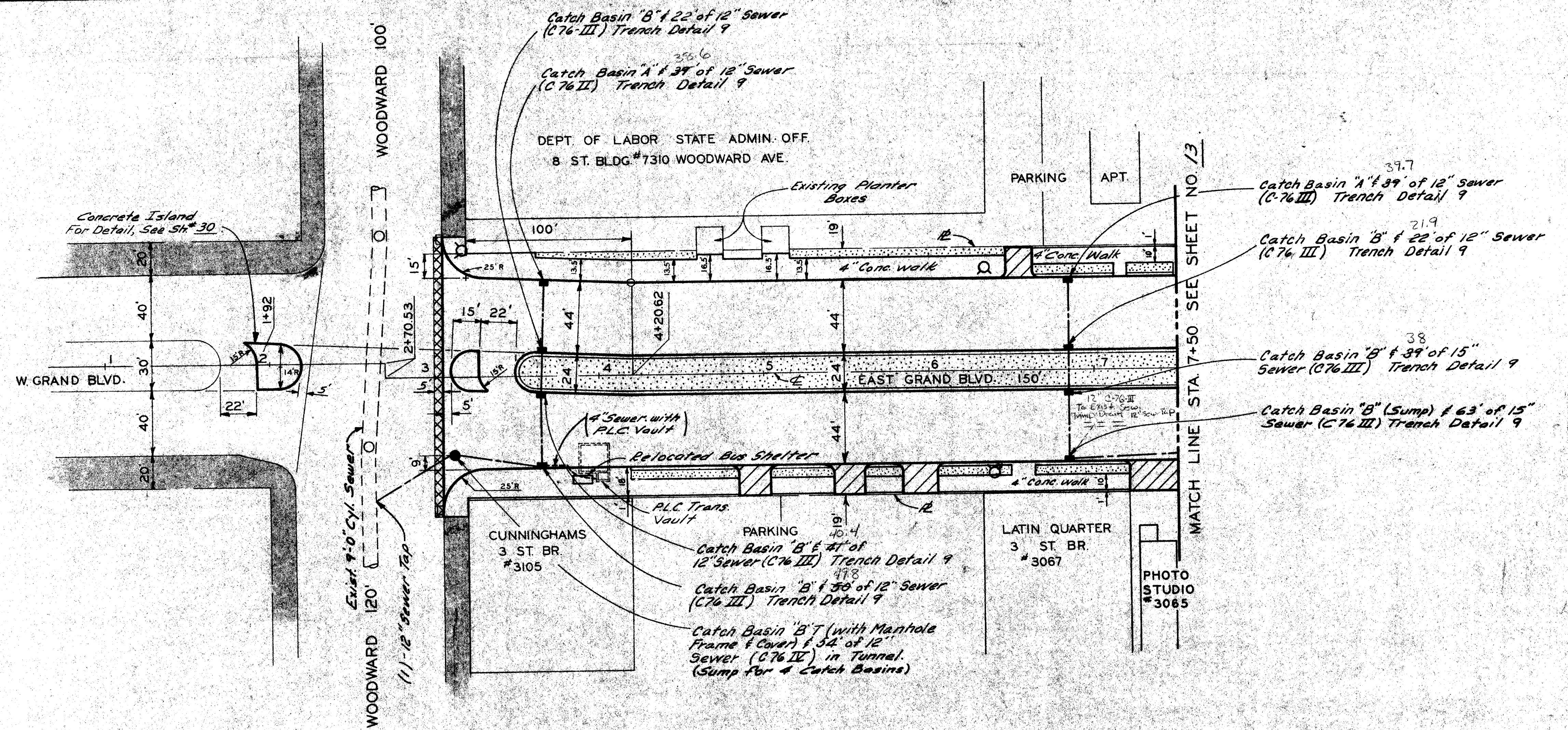
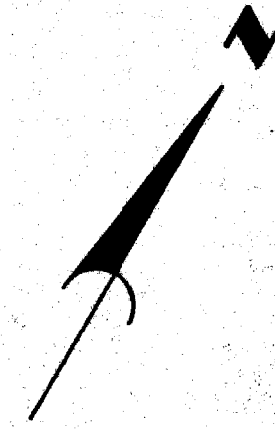
DESIGNED BY	M.A.P./J.R.D.
DRAWN BY	M.A.P./J.R.D.
TRACED BY	
CHECKED BY	RBP

APPROVED:
Allen E. Progen
ENGINEER OF EXPRESSWAYS

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

REMOVALS
EAST GRAND BOULEVARD WIDENING
STA. 15+50.00 TO OAKLAND AVE.

SHEET 10 OF 82 SHEETS
PROJECT NO. T4000 (10)
DRWG NO.
DATE 3-24-72



C.B.M. Elev. 153.77 Arrow on Hydrant N.W. Corner W. Grand Boulevard & Woodward.

A.B.M. # 31-255 Elev. 150.43 N.E. Corner E. Grand Blvd. & Woodward.

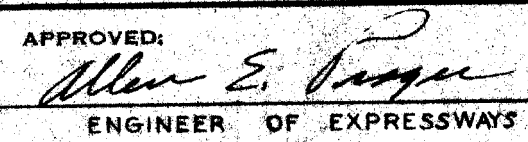
C.B.M. Elev. 152.12 Arrow on Hydrant N. Side E. Grand Boulevard at E. End of State of Michigan Building.

LEGEND

- Bituminous Surface
- Concrete Pavement, 8' Uniform (Commercial Driveway)
- Existing Sidewalk to Remain
- Class A Sodding
- Proposed Fire Hydrant

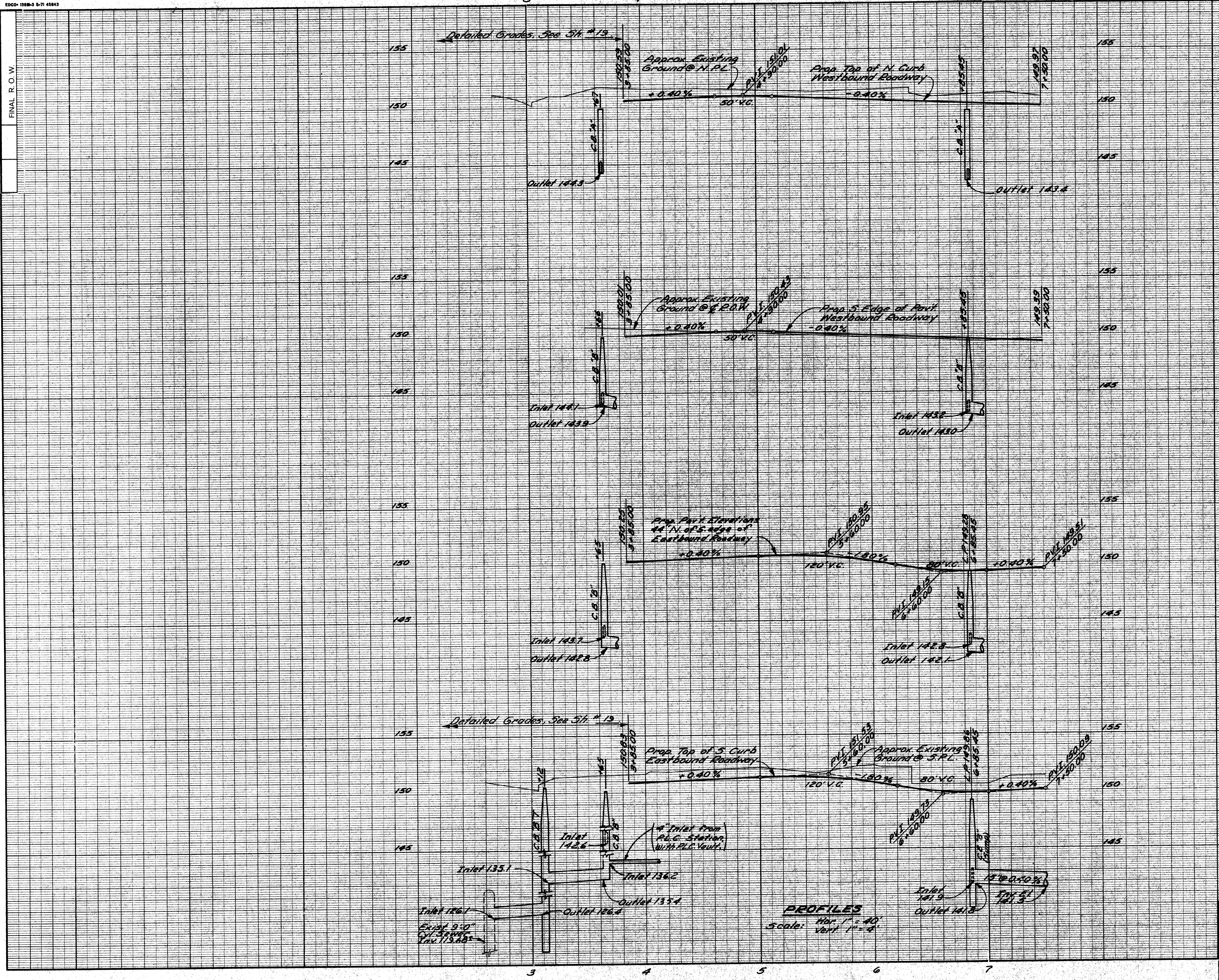
NOTES:

1. For Utility Legend and Symbols, See Standard Detail Drawing C-302-A, Sh. # 30.
2. For typical Driveway Details, See Sh. # 30.
3. Where proposed pavement narrows to less than 1'-6", See Standard Detail, Sh. # 30.
4. For proposed Fire Hydrant (Q), See Sh. # 24.
5. For proposed 6" Concrete Sidewalk, See Supplementary Specification in the Proposal.
6. For Utility adjustments and reconstructions, See Sh. # 24.

CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE		PLAN E. GRAND BLVD. WOODWARD TO OAKLAND STA. 1+85± TO STA. 7+50	SHEET <u>11</u> OF <u>82</u> SHEETS PROJECT No. T4000 (10) DRWG No. DATE 3-24-72
DESIGNED BY M.S./J.R.D. DRAWN BY TRACED BY CHECKED BY RBP	APPROVED:  ENGINEER OF EXPRESSWAYS	REVISIONS LOCATED BY COORDINATES ON SHEET	

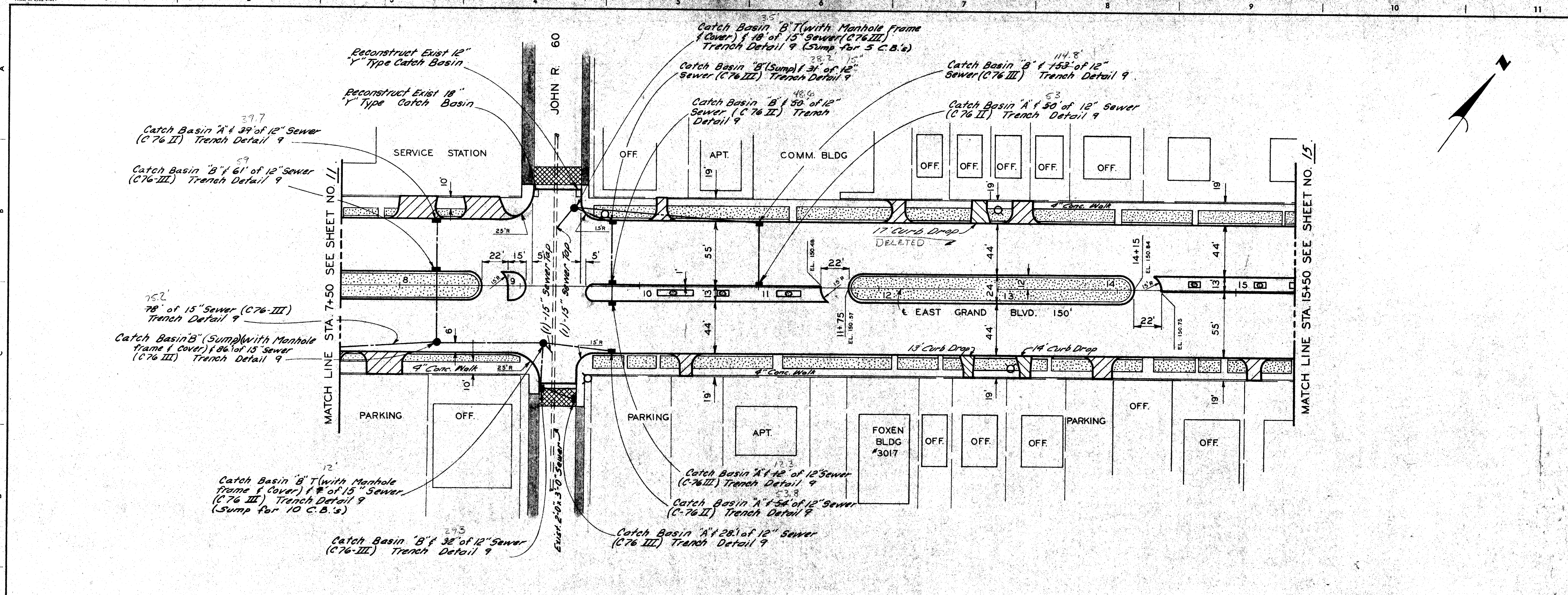
OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PROFILES PLOTTED		
PROFILE CHECKED		
PRELIMINARY GRADE		
FEDERAL INSPECTION		

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

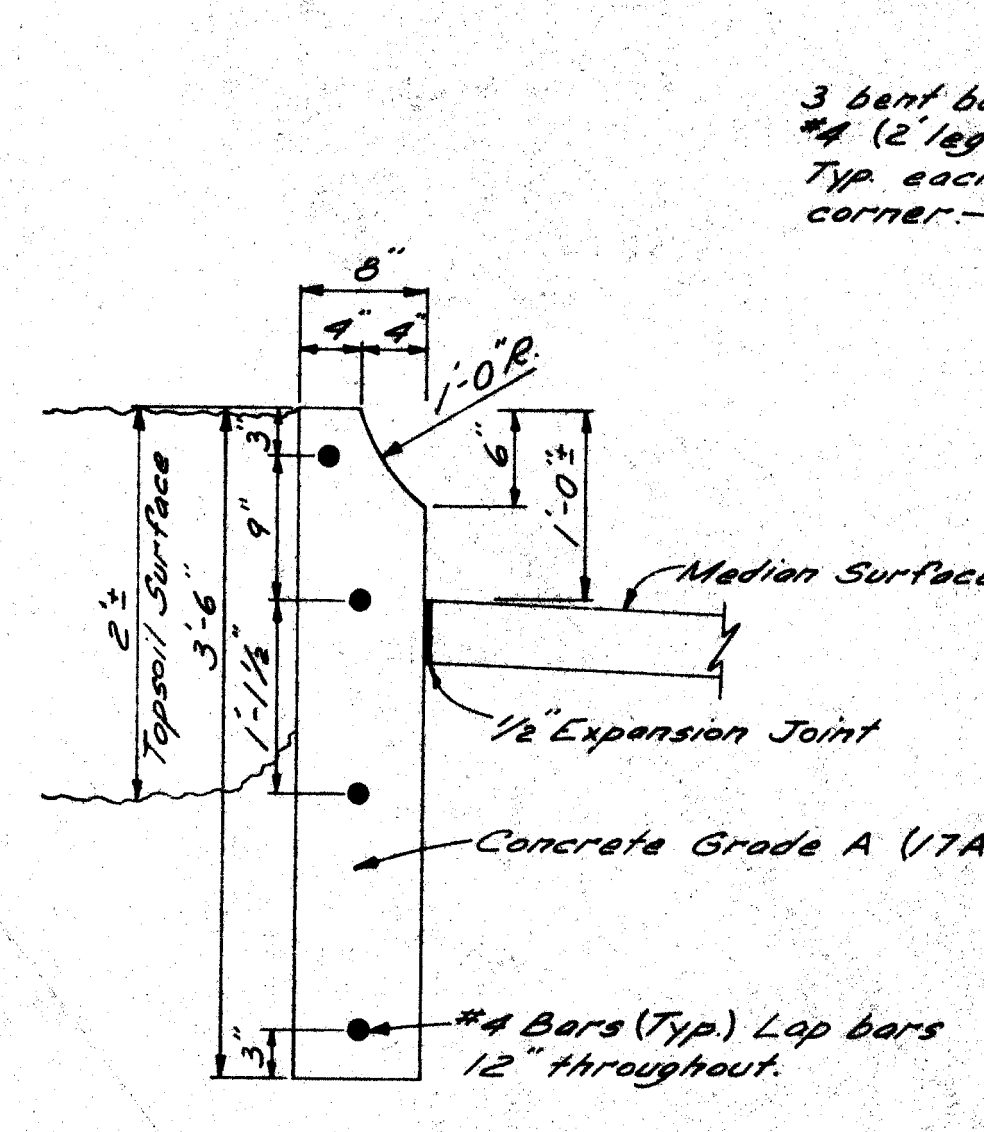


PROFILES
 Scale: Hor. 1" = 40'
 Vert. 1" = 4'

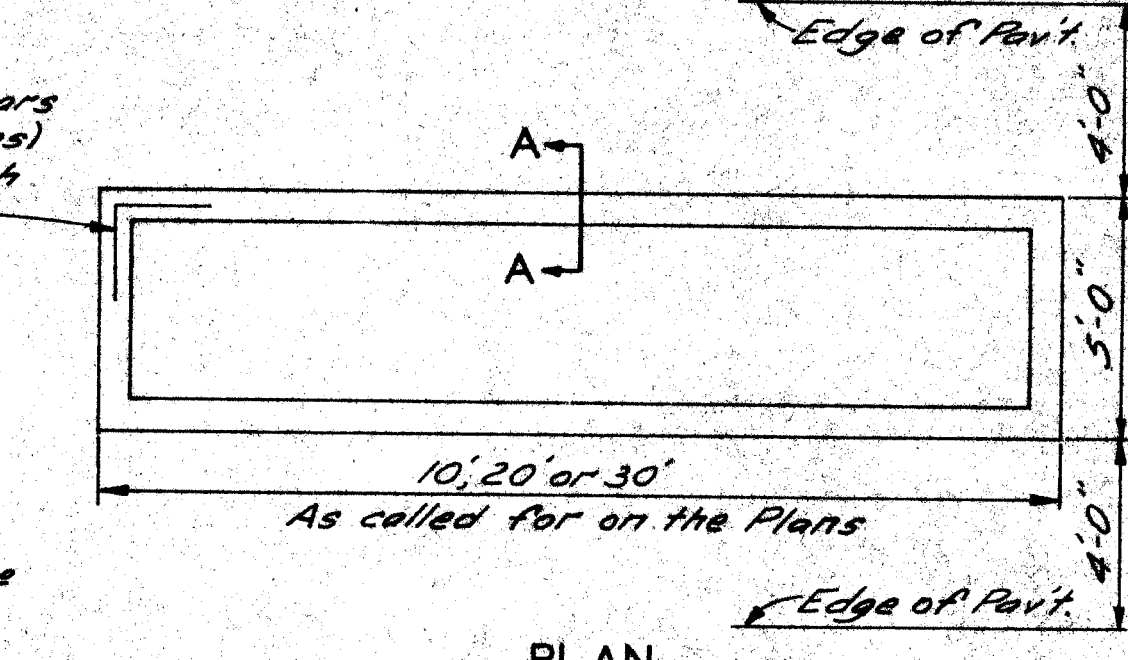
PROFILE	
E. GRAND BLVD WOODWARD TO OAKLAND	
STA. 3+85 TO STA. 7+50	
CONTROL SECTION	JOB NO.
FEDERAL PROJECT	R.O.W. NO.
T4000 (10)	12



P.B.M. New Elev. 149.91 N.W. Corner E. Grand Blvd. & John R.
 P.B.M. #31-255A Elev. 150.076 N.E. Corner E. Grand Blvd. & John R.
 C.B.M. Elev. 153.19 Arrow on Hydrant S.E. Corner E. Grand Blvd. & John R.
 C.B.M. Elev. 154.25 Arrow on Hydrant @ 3008 E. Grand Blvd., N. Side.



SECTION A-A
SCALE: 1"=1'



PLANter BOX DETAIL
SCALE: 1"=4'

No.	Station to Station	Length	Sh. No.	
1	10+15	10+45	30'	13
2	10+65	10+75	10'	13
3	11+15	11+35	20'	13
4	14+80	14+70	10'	13
5	15+15	15+25	10'	13
6	15+45	15+75	30'	15
7	18+60	18+90	30'	15
8	19+00	19+10	10'	15
9	19+30	19+40	10'	15
10	21+15	21+45	30'	15
11	21+70	21+80	10'	15
12	22+20	22+40	20'	15
13	27+75	27+95	20'	17
14	28+15	28+25	10'	17
15	28+75	28+95	20'	17

LEGEND

- Bituminous Surface
- Concrete Pavement, 8" Uniform (Commercial Driveway)
- Concrete Pavement, 6" Uniform (Residential Driveway)
- Existing Sidewalk to Remain
- Class A Sodding
- Planter Box
- Proposed Fire Hydrant

NOTES:

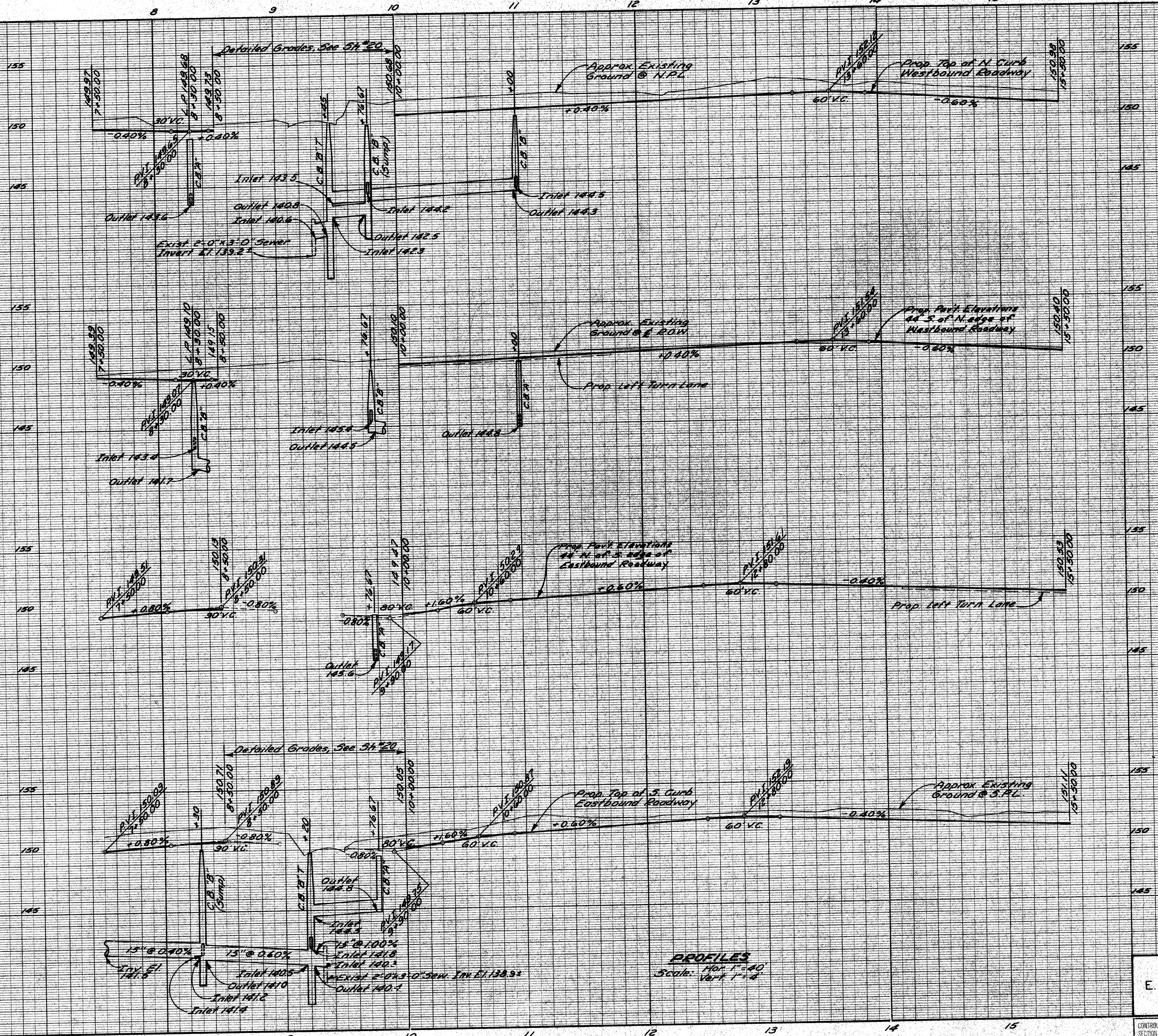
1. For Utility Legend and Symbols, See Standard Detail Drawing C-302-A, Sh.# 30.
2. For typical Driveway Details, See Sh.# 30.
3. Where proposed pavement narrows to less than 1'-6", See Standard Detail, Sh.# 30.
4. For proposed Fire Hydrant (Q), See Sh.# 24.
5. For proposed 6" Concrete Sidewalk, See Supplementary Specification in the Proposal.
6. For Utility adjustments and reconstructions, See Sh.# 24.
7. For Planter Box Detail, See this sheet.

REFERENCE DRAWINGS	DESIGNED BY	APPROVED:	CITY OF DETROIT		PLAN		
	DRAWN BY <i>MS./JRD.</i>	<i>Allen E. Progan</i> ENGINEER OF EXPRESSWAYS	DEPARTMENT OF PUBLIC WORKS		E. GRAND BLVD. WOODWARD TO OAKLAND		
	TRACED BY		CITY ENGINEERS' OFFICE		STA. 7+50 TO STA. 15+50		
	CHECKED BY <i>RBP</i>				SHEET 13 OF 82 SHEETS		
REVISIONS LOCATED BY COORDINATES ON SHEET					PROJECT No. T4000 (10)		
					DRWG No.		
					DATE 3-24-72		

FINAL R.O.W.

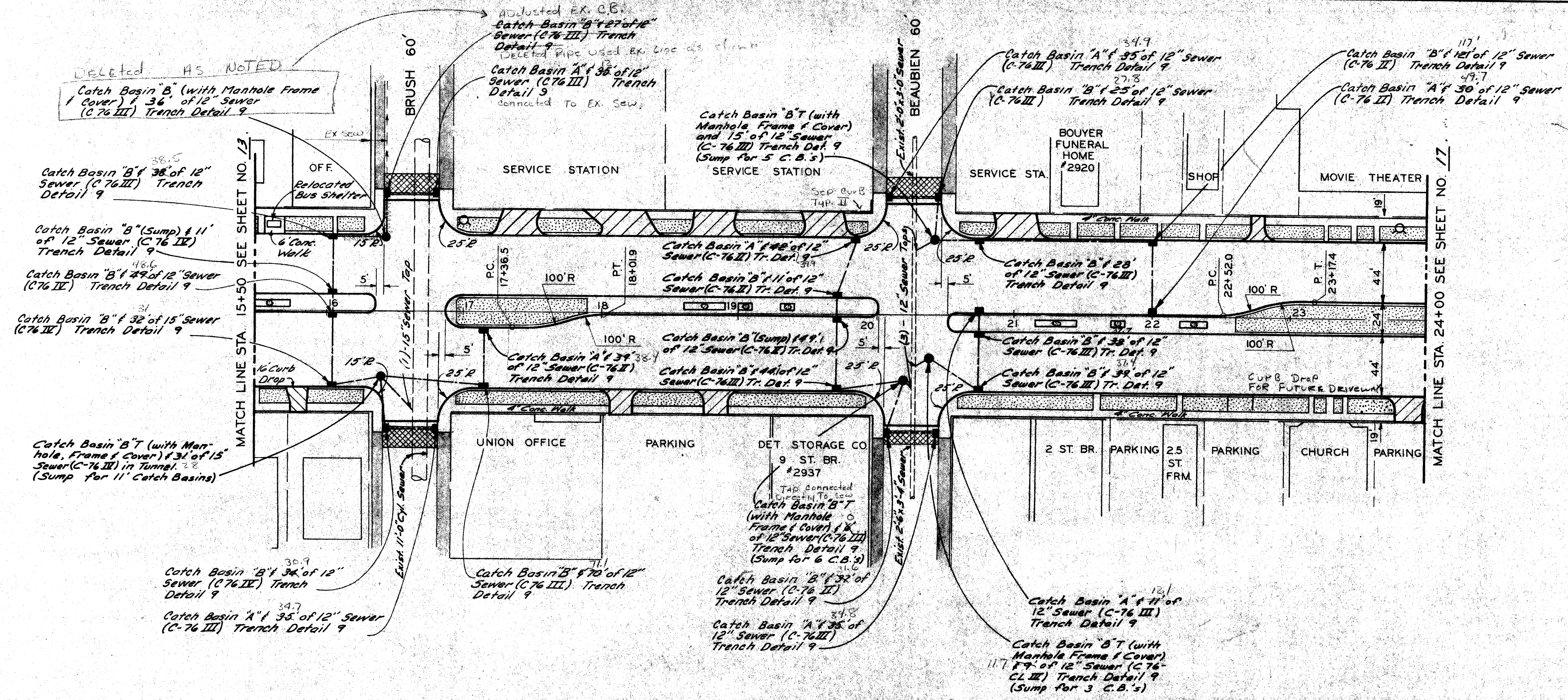
OPERATION	BY	DATE
SURVEYED		
PLAN CHECKED		
FINAL DESIGN CHECKED		
PROFILE PLOTTED		
PROFILES CHECKED		
QUANTITIES CHECKED		
GRADE INSPECTION		
FEDERAL INSPECTION		

OPERATION	BY	DATE
PRELIMINARY DESIGN		
FINAL DESIGN CHECKED		
TRAFFIC ENGINEER		
QUANTITIES CHECKED		
SQUAD		



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

PROFILE
 E. GRAND BLVD WOODWARD TO OAKLAND
 STA. 7+50 TO STA. 15+50



C.B.M. Elev. 153.35 Arrow on Hydrant S.E. Corner E. Grand Blvd. & Brush.

C.B.M. Elev. 151.22 R.R. Spike on P.L.C. Pole N.E. Corner E. Grand Blvd. & Brush.

C.B.M. Elev. 151.94 Arrow on Hydrant N.E. Corner E. Grand Blvd. & Beaubien.

C.B.M. Elev. 151.03 Arrow on Hydrant S.E. Corner E. Grand Blvd. & Beaubien.

C.B.M. Elev. 153.59 Arrow on Hydrant @ 2900 E. Grand Blvd., North Side.

LEGEND

- Bituminous Surface
- Concrete Pavement, 8" Uniform (Commercial Driveway)
- Concrete Pavement, 6" Uniform (Residential Driveway)
- Existing Sidewalk to Remain
- Class A Sodding
- Planter Box
- Proposed Fire Hydrant

NOTES:

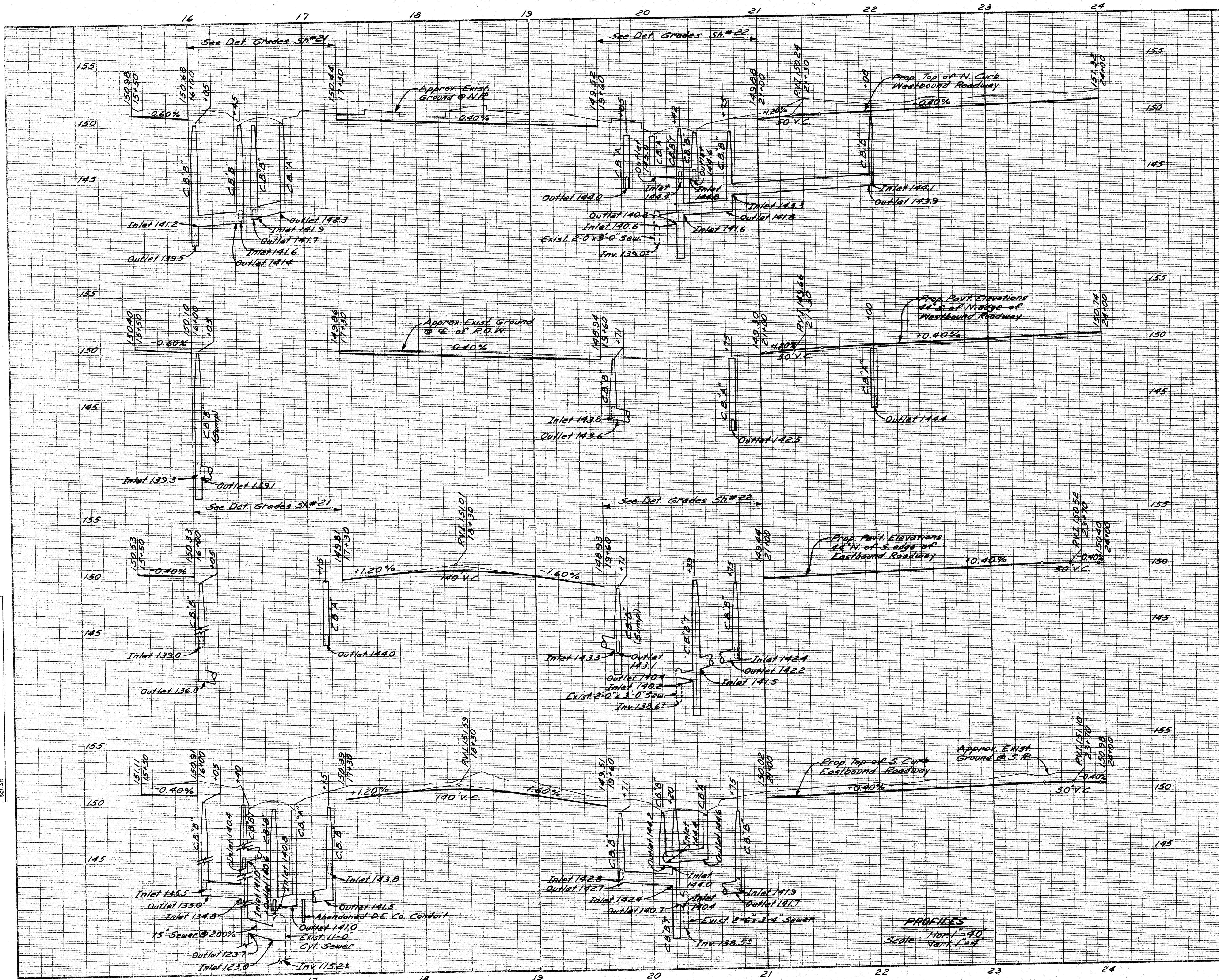
1. For Utility Legend and Symbols, See Standard Detail Drawing C-302-A, Sh.# 30.
2. For typical Driveway Details, See Sh.# 30.
3. Where proposed pavement narrows to less than 1'-6", See Standard Detail, Sh.# 30.
4. For proposed Fire Hydrant (Q) See Sh.# 25.
5. For proposed 6" Concrete Sidewalk, See Supplementary Specification in the Proposal.
6. For Utility adjustments and reconstructions, See Sh.# 25.
7. For Planter Box Detail, See Sh.# 13.

DESIGNED BY	M.S.J.R.D.	APPROVED:	 ENGINEER OF EXPRESSWAYS		CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE			PLAN E. GRAND BLVD. WOODWARD TO OAKLAND STA. 15+50 TO STA. 24+00	SHEET 15 OF 82 SHEETS PROJECT No. T 4000 (10) DRWG No. DATE 3-24-72
DRAWN BY		CHECKED BY							
TRACED BY									
DESCRIPTION									
REVISIONS LOCATED BY COORDINATES ON SHEET									

R.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			6	82
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

OPERATION	DATE
SURVEYED	
PLAN PLOTTED	
PLAN CHECKED	
PROFILES CHECKED	
PRELIMINARY GRADE	
FINAL GRADE	
FEDERAL INSPECTION	

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



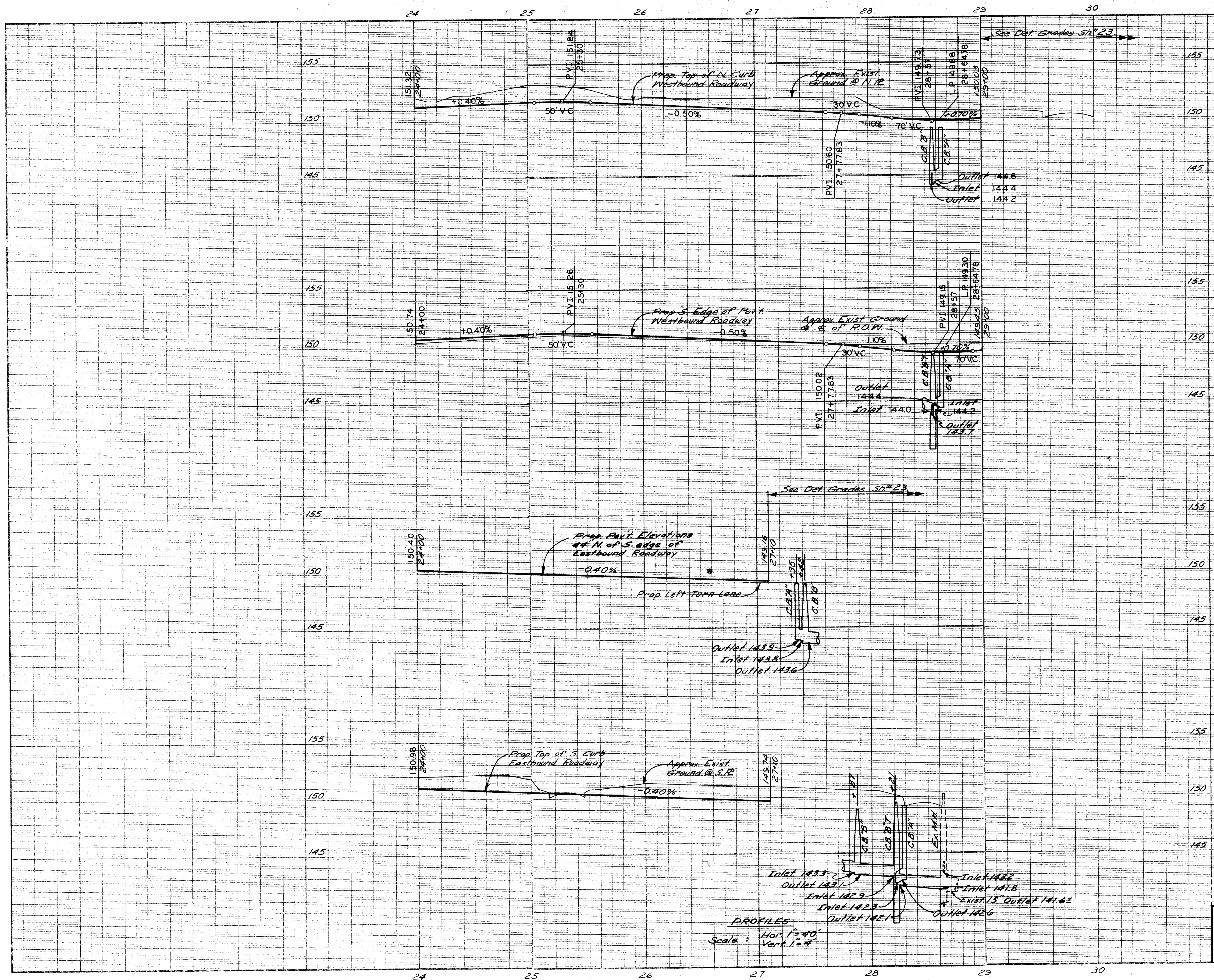
PROFILE
 E. GRAND BLVD. WOODWARD TO OAKLAND
 STA. 15+50 TO STA. 24+00

FILE NO.	STATE PROJECT	FEDERAL PROJECT	SHEET NO.
14000			16

B.P.R. DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	MICH.			18	82
ROUTE	STATE PROJECT	COUNTY		SHEET NO.	TOTAL SHEETS

OPERATION	BY	DATE
SURVEYED		
PLAN PLOTTED		
PROFILE PLOTTED		
FINAL DESIGN CHECKED		
QUANTITIES CHECKED		
GRAPHIC INSPECTION		
FEDERAL INSPECTION		

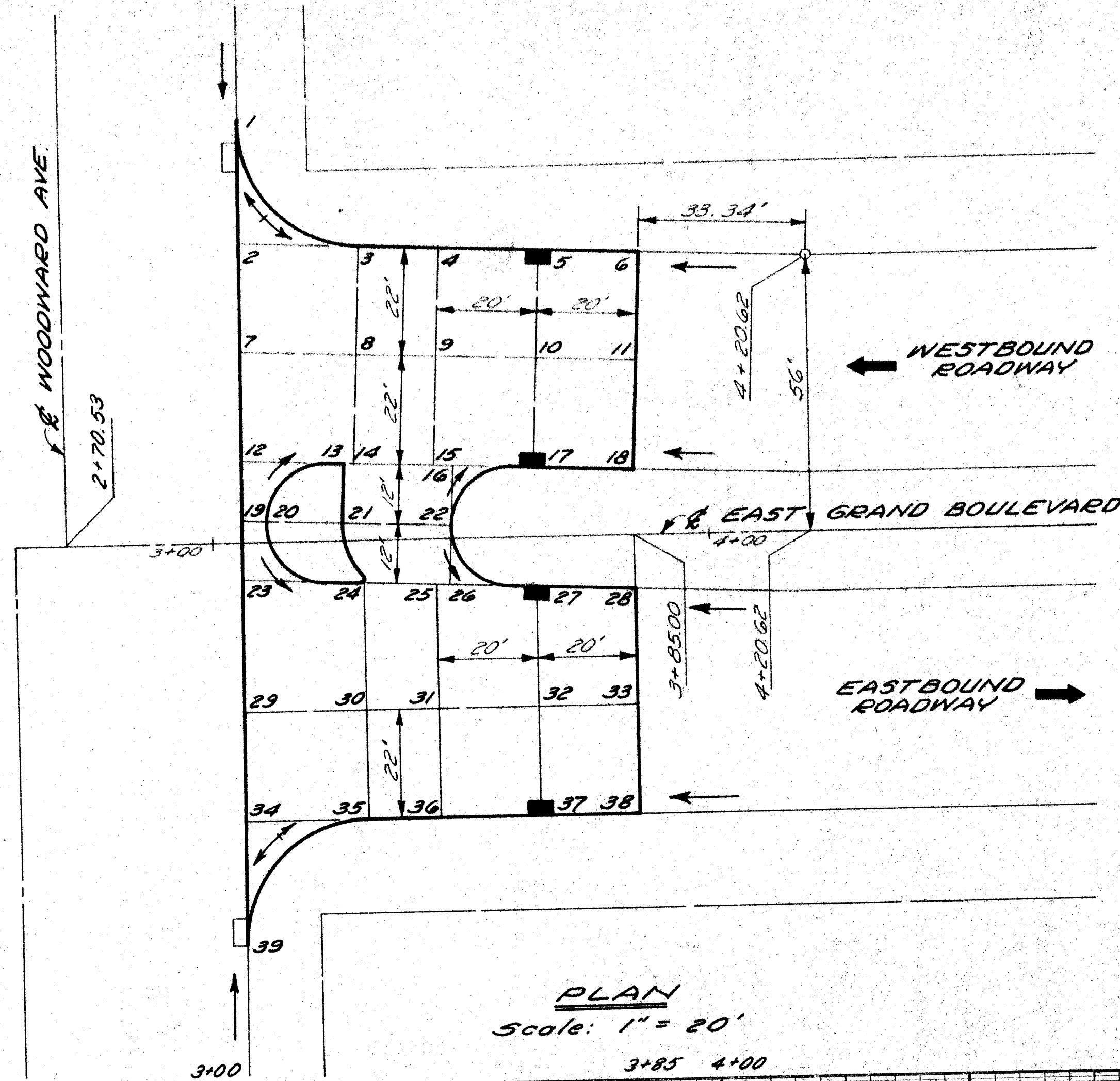
OPERATION	BY	DATE
PRELIMINARY P.O.W. CHECKED		
FINAL DESIGN CHECKED		
FINAL P.O.W. CHECKED		
QUANTITIES CHECKED		
GRAPHIC INSPECTION		
FEDERAL INSPECTION		



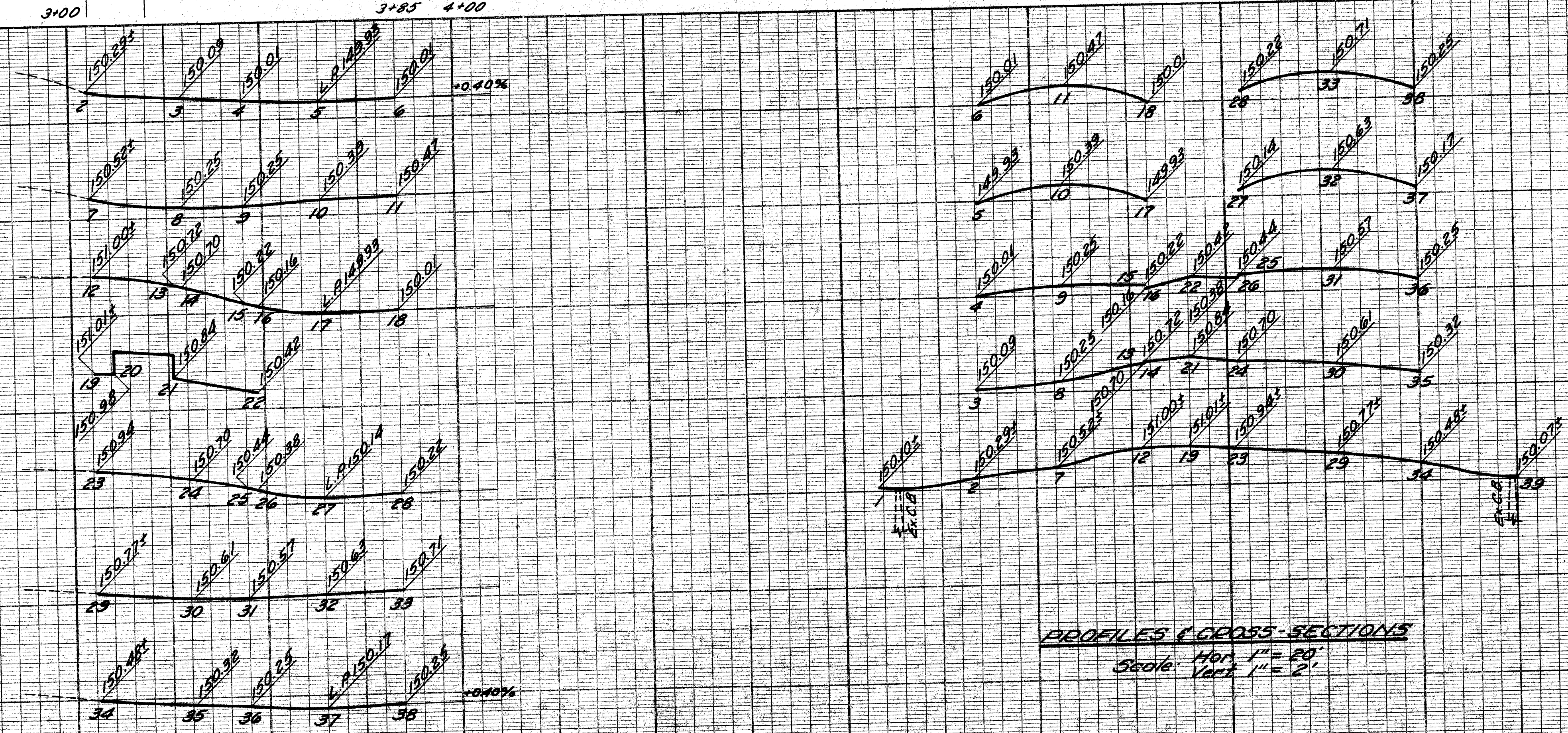
PROFILES
Scale: Hor 1" = 40'
Vert 1" = 4'

PROFILE
E. GRAND BLVD. WOODWARD TO OAKLAND
STA. 24+00 TO STA. 30+01

FILE NO.	STATE PROJECT	PROJECT NO.	SHEET NO.	TOTAL SHEETS
T4000			18	82



PLAN
Scale: 1" = 20'



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

DESCRIPTION	DATE	BY	CHECKED BY	APPROVED:
PLAN		M.A.P.		<i>Mon E. Pagan</i> ENGINEER OF EXPRESSWAYS
GRADE		M.A.P.		
ESTIMATE				
FINAL		R&P		

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

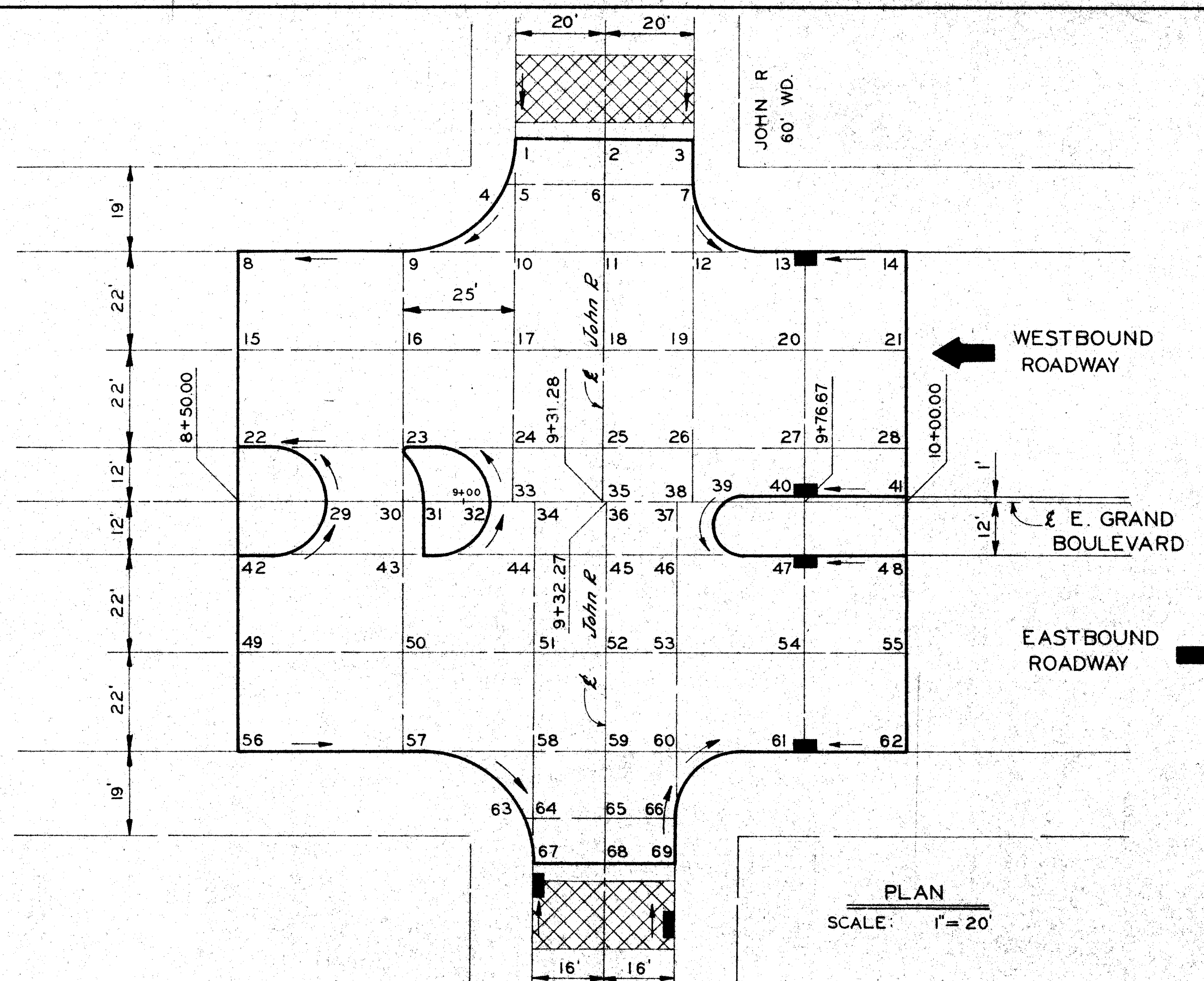
DETAILED GRADES
FOR E. GRAND BLVD.
AT WOODWARD

INDEX NO.	SHEET 19 of 82 SHEETS
PROJECT NO.	T4000 (10)
ASSIGNMENT NO.	
DATE	3-24-72

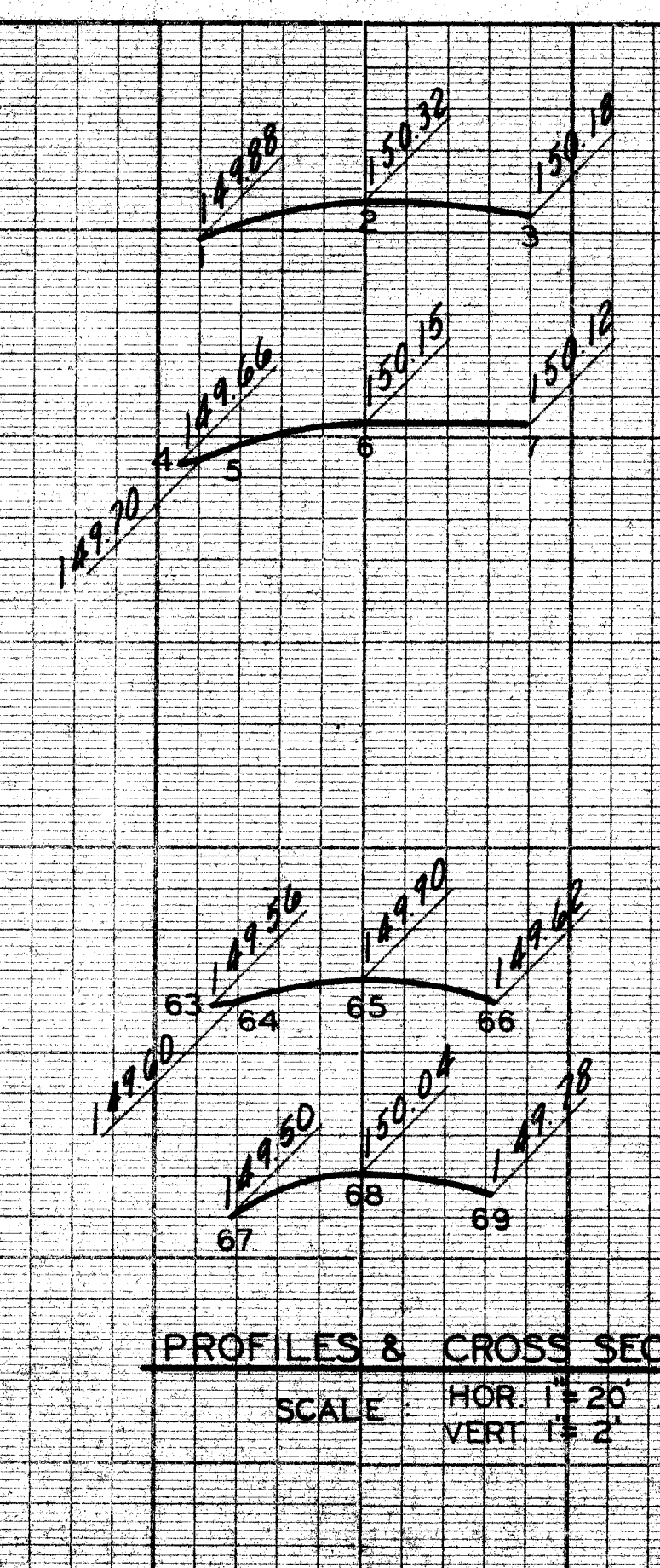
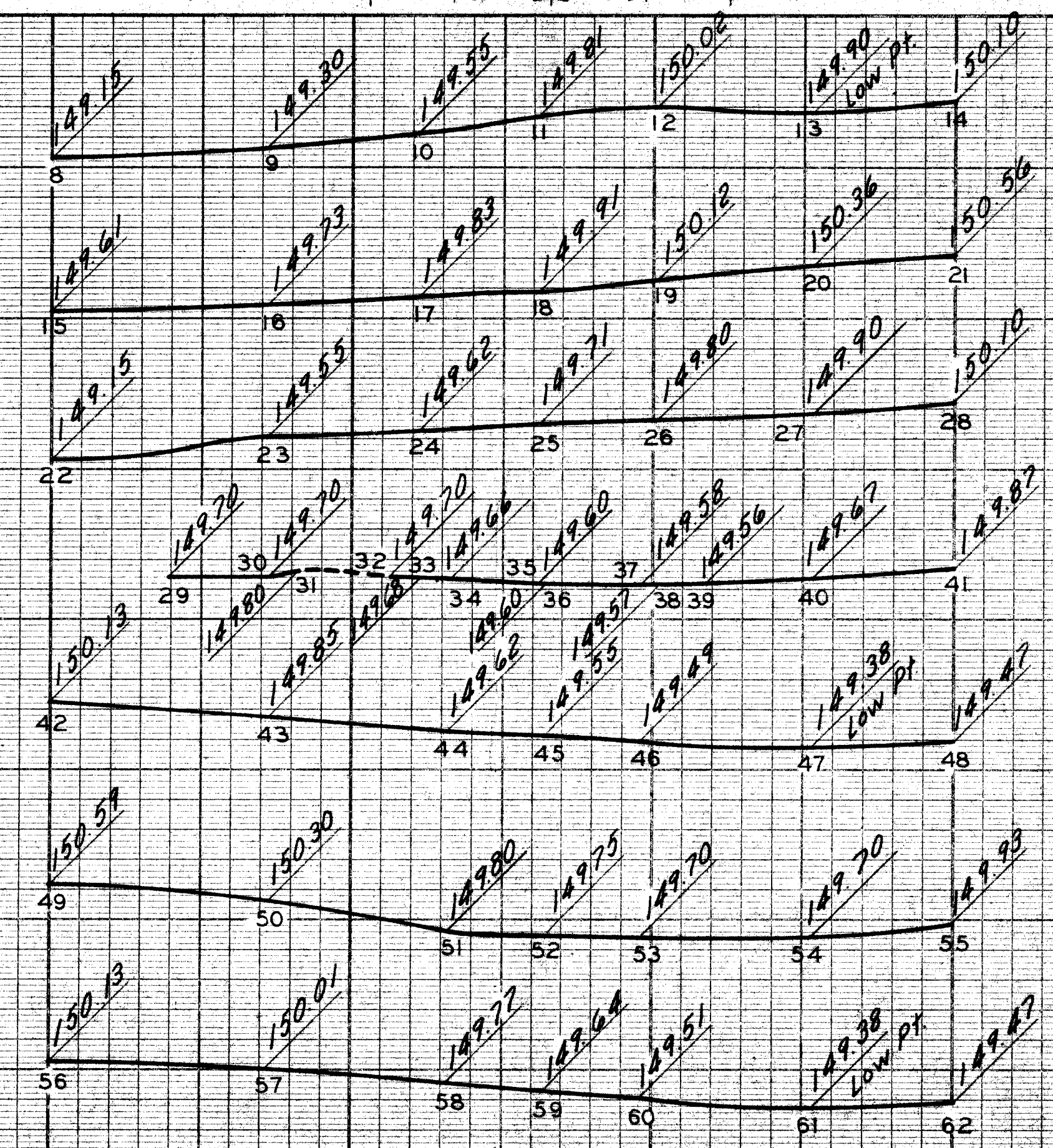
SCALE	HORIZONTAL	VERTICAL	BOOK NO.	PG.	PAVING COMPLETED	LEVEL DATE	BEFORE STARTING CONSTRUCTION CONTRACTOR MUST CHECK WITH UTILITIES FOR LOCATIONS OF EXISTING STRUCTURES WHETHER OR NOT INDICATED ON PLANS.
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NOTE - FOR SYMBOLS (A) ETC. SEE STANDARD DETAIL DRAWING NO. G-177

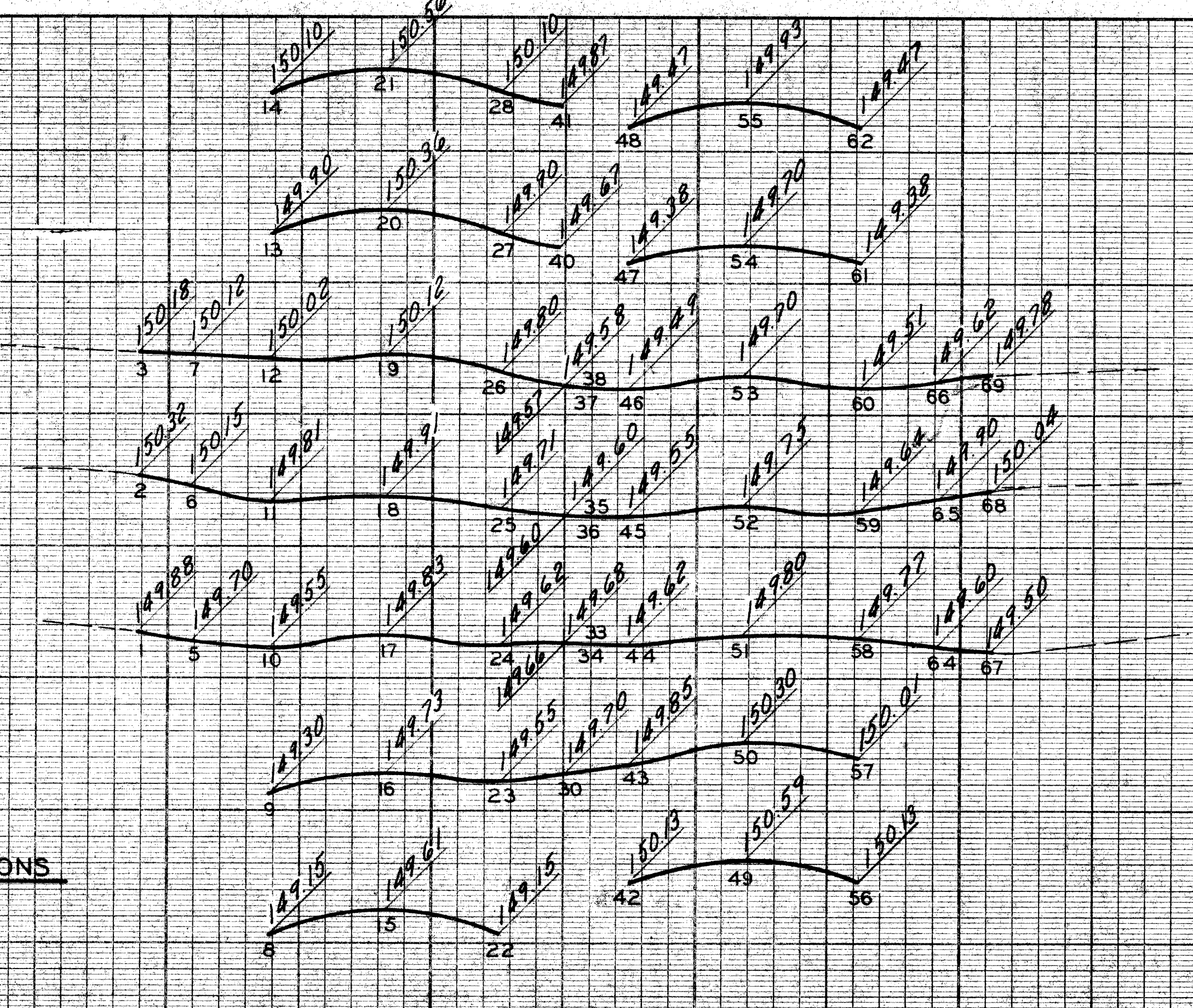
BENCH MARKS ELEV.



PLAN
SCALE: 1" = 20'



PROFILES & CROSS SECTIONS
SCALE: HOR 1" = 20' VERT 1" = 2'



DESCRIPTION	DRN	CHK	D.	APPROV	DATE
REVISIONS					
PLAN	M.S.	CHECKED BY	APPROVED:		
GRADE	M.A.P.		<i>Allen E. Rogan</i>		
ESTIMATE			ENGINEER OF EXPRESSWAYS		
FINAL	R&P	CHECK	REVIEW		

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

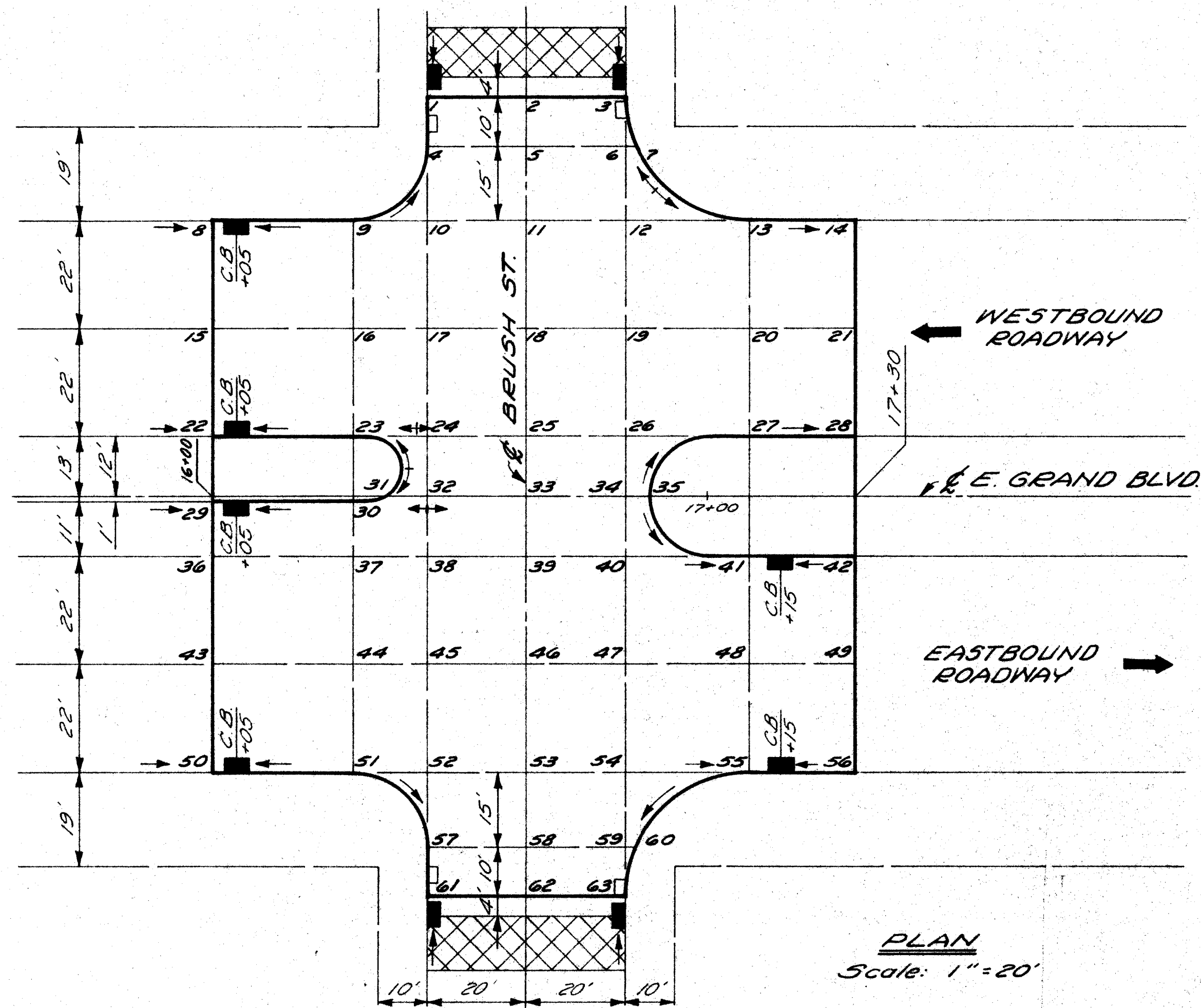
DETAILED GRADES
FOR E. GRAND BLVD.
AT JOHN R.

INDEX NO.	20 OF 82 SHEETS
PROJECT NO.	T 4000 (10)
ASSIGNMENT NO.	
DATE	3-24-72

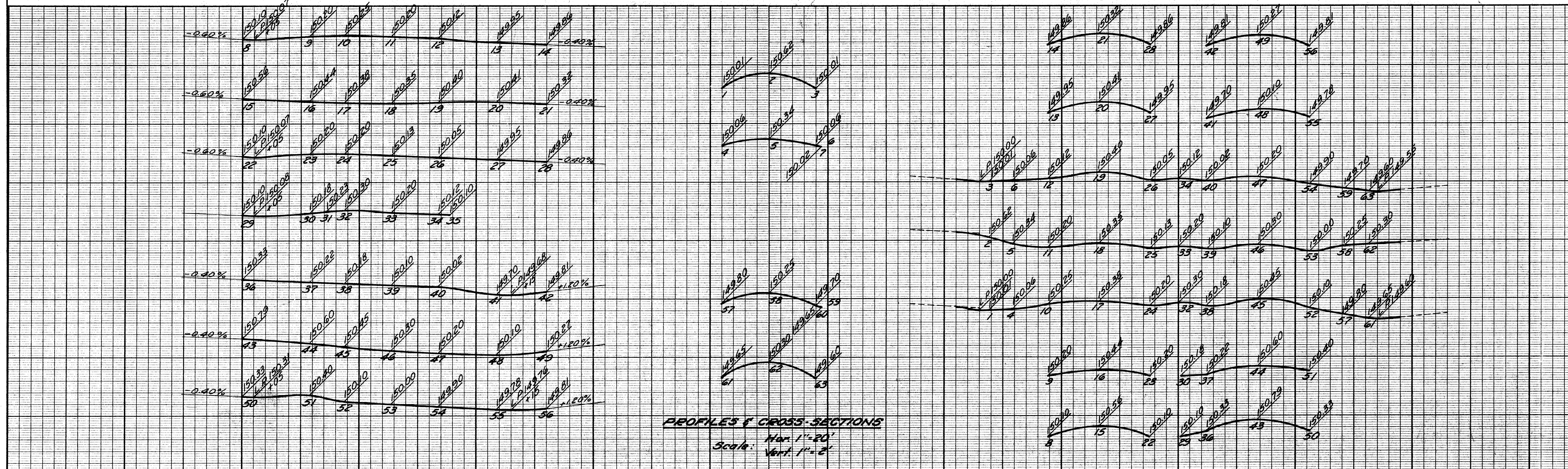
SCALE	HORIZONTAL	BOOK NO.	LEVEL
	VERTICAL	NO. PG.	DATE
		PAVING COMPLETED	

NOTE - FOR SYMBOLS (A) ETC. SEE STANDARD DETAIL DRAWING NO. C-473

BENCH MARKS ELEV.



PLAN
Scale: 1"=20'



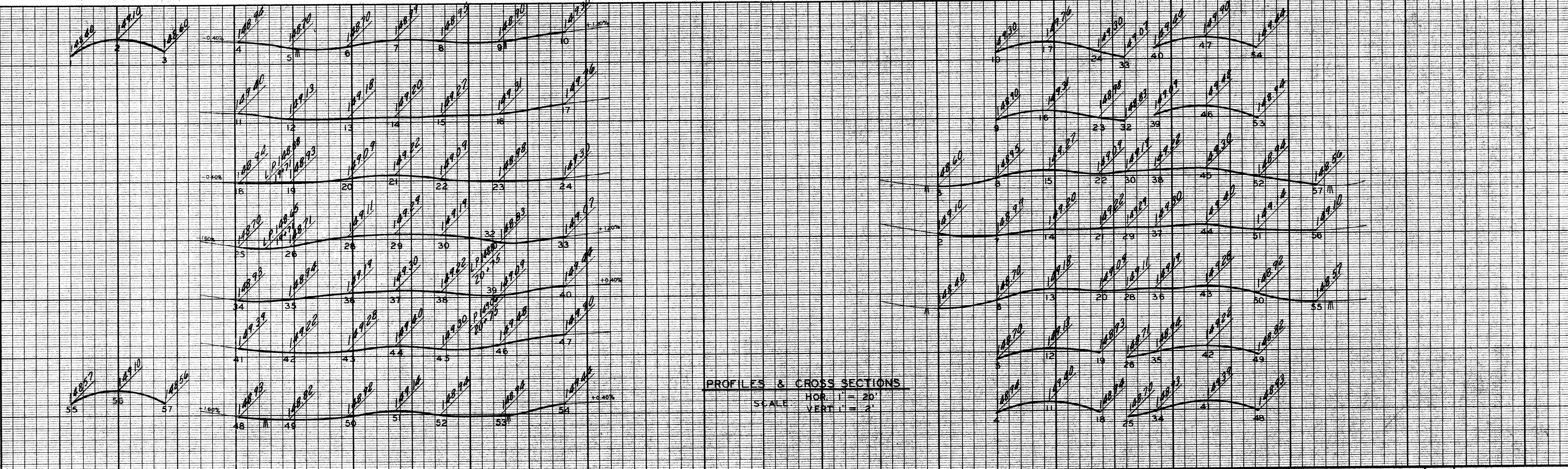
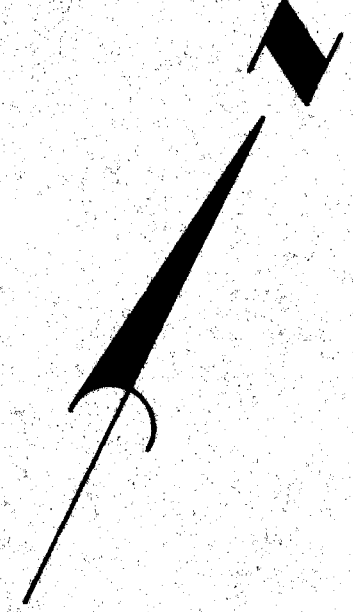
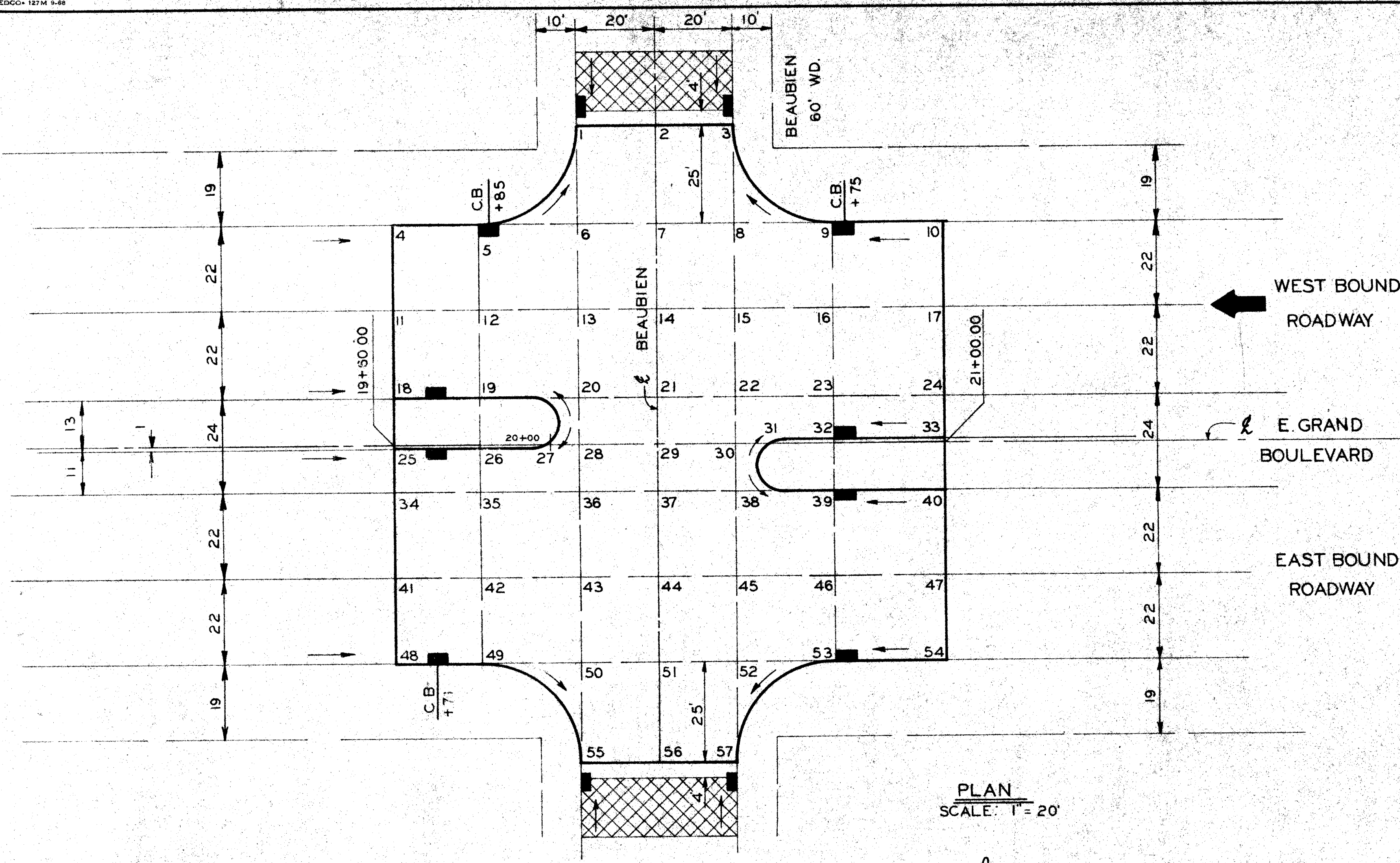
PROFILES & CROSS-SECTIONS
Hor. 1"=20'
Vert. 1"=2'

BY	CHECKED BY	APPROVED
PLAN M.A.P.		<i>Allen E. [Signature]</i>
GRADE M.A.P.		ENGINEER OF EXPRESSWAYS
ESTIMATE	CHECK	REVIEW
FINAL RBP		

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

DETAILED GRADES
FOR E. GRAND BLVD.
AT BRUSH

INDEX NO.	SHEET 21 OF 82 SHEETS
PROJECT NO.	T 4000 (10)
ASSIGNMENT NO.	
DATE	3-24-72

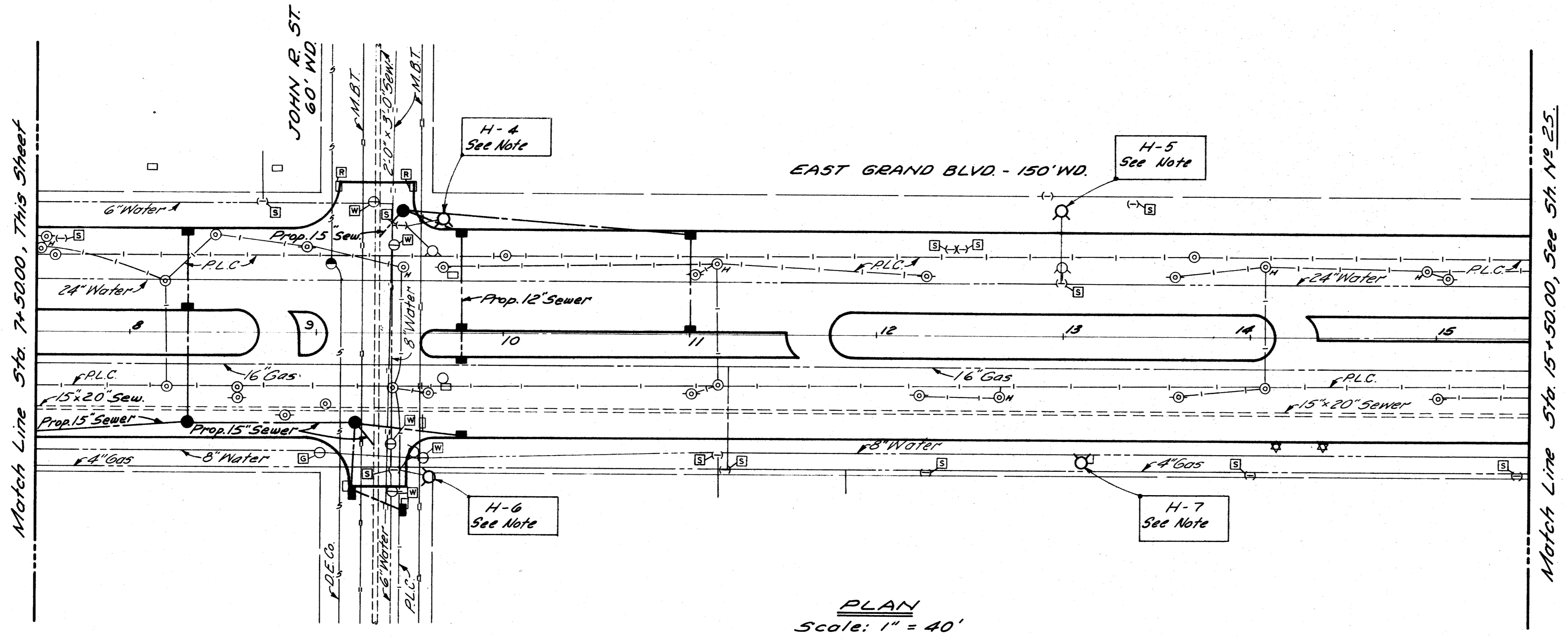
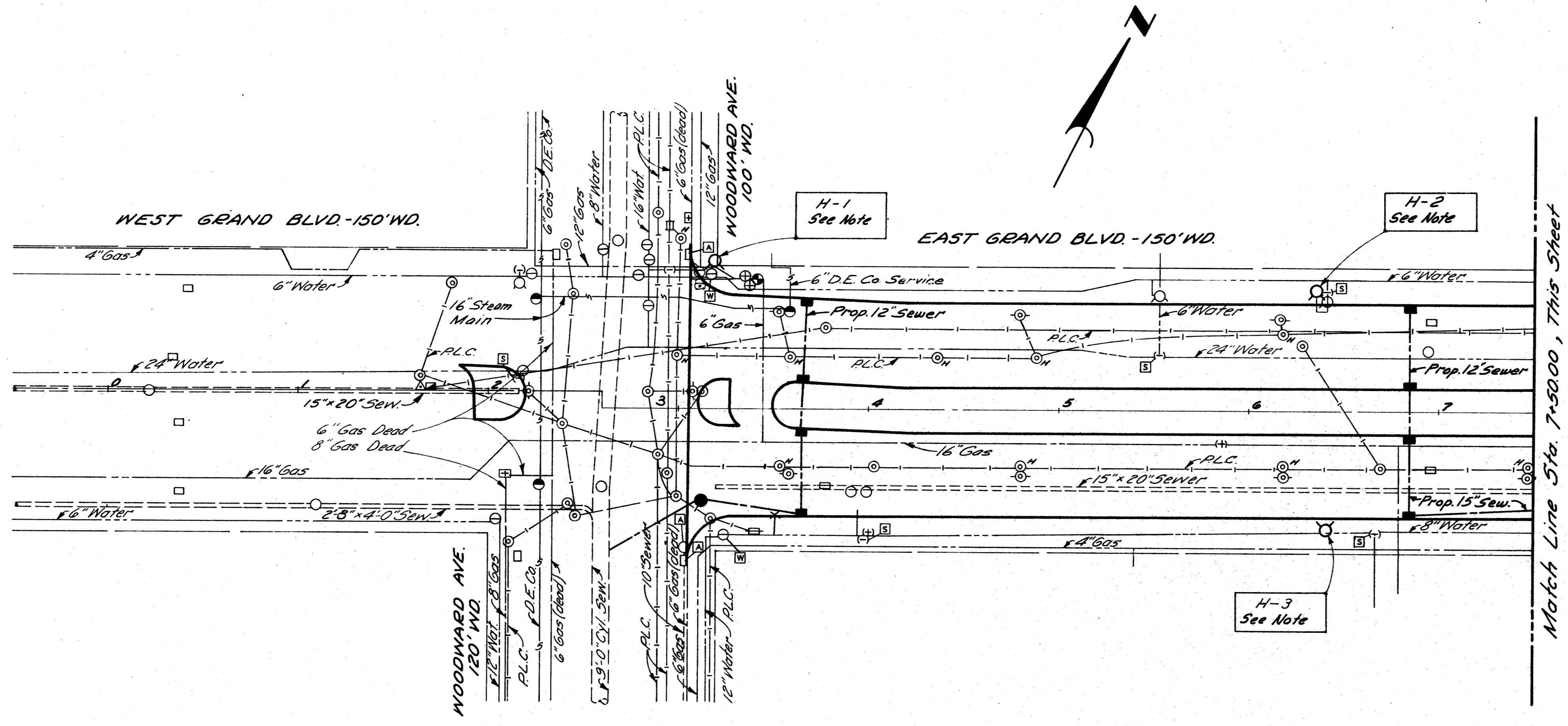


BY	CHECKED BY	APPROVED:
PLAN	M.S.	<i>Alan E. Rosen</i>
GRADE	M.S.	ENGINEER OF EXPRESSWAYS
ESTIMATE		
DESCRIPTION	DR N	CR D
REVISIONS	AP	VD
	DATE	
	FINAL	CHECK
	RAJ	REVIEW

CITY OF DETROIT
DEPARTMENT OF PUBLIC WORKS
CITY ENGINEERS OFFICE

DETAILED GRADES
FOR E. GRAND BLVD.
AT BEAUBIEN

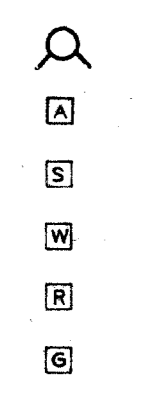
INDEX NO.	SHEET 22 of 82 SHEETS
PROJECT NO.	T 4000 (10)
ASSIGNMENT NO.	
DATE	3-24-72



PLAN
Scale: 1" = 40'

LEGEND

- Proposed Fire Hydrant
- Adjusting Drainage Structure Covers
- Adjusting Water Shut-Offs
- Adjusting Gate Well Covers
- Reconstruct Drainage Structures
- Reconstruct Water Manholes



NOTES

FOR CONTRACTOR'S CONNECTIONS H-1 THROUGH H-7, SEE SH.# 26.

DESIGNED BY DRAWN BY M.A.P. TRACED BY CHECKED BY RBP		APPROVED: ENGINEER OF EXPRESSWAY	CITY OF DETROIT DEPARTMENT OF PUBLIC WORKS CITY ENGINEERS OFFICE	UTILITIES EAST GRAND BOULEVARD WIDENING WOODWARD AVE. TO STA. 15+50.00	SHEET 24 OF 82 SHEETS PROJECT No. T 4000 (10) DRWG NO. DATE 3-24-72
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