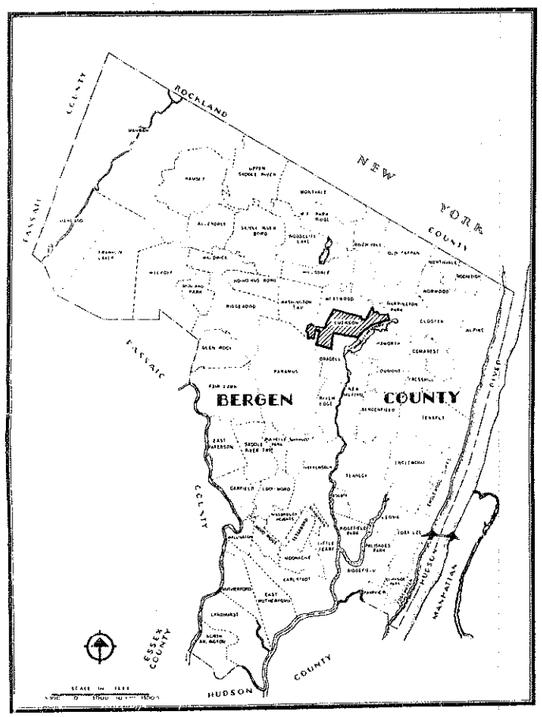


LOCATION MAP

BOROUGH OF EMERSON

NEW JERSEY

SANITARY SEWER SYSTEM AS BUILT

STAGE ONE - NORTHWESTERLY SECTION

1" = 50'

LIST OF DRAWINGS:

GENERAL PLAN 1
SUBSURFACE DATA I 2
SUBSURFACE DATA II 3
PLAN AND PROFILE 4-26
STANDARD DETAILS 27

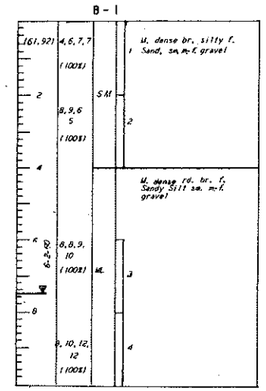
SUBMITTED FOR APPROVAL AUGUST 18, 1960
TIPPETTS - ABBETT - McCARTHY - STRATTON
BY Edward K. Bryant
PARTNER - N.J. LICENSED PROFESSIONAL ENGINEER AND LAND SURVEYOR No. 2546

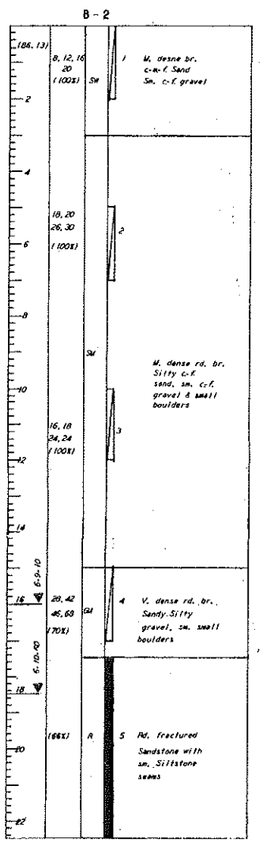
APPROVALS

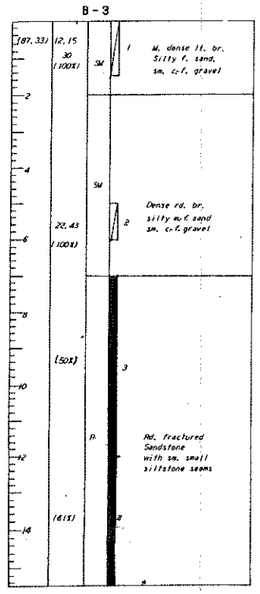
BOROUGH OF EMERSON
APPROVED BY RESOLUTION ADOPTED August 22, 1960
BY Julius D. Hamel MAYOR
Richard D. Parsons ATTEST BOROUGH CLERK

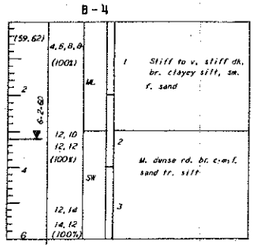
DEPARTMENT OF HEALTH - STATE OF NEW JERSEY
APPROVED SEPT. 19, 1960
BY ROSCOE P. KANDLE M.D. STATE COMMISSIONER OF HEALTH

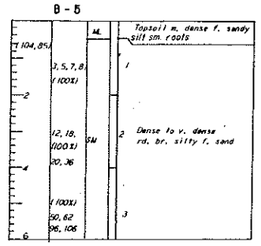
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS
NEW YORK, N.Y.

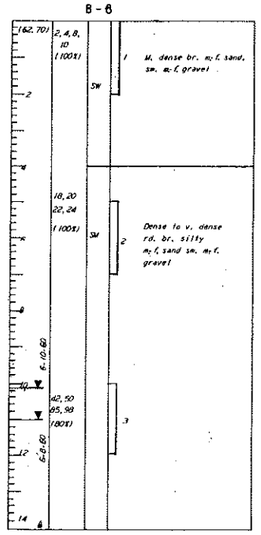


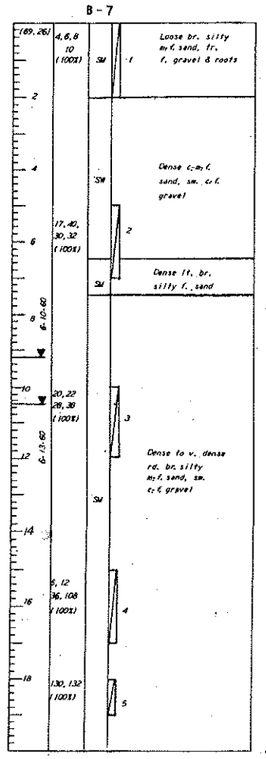


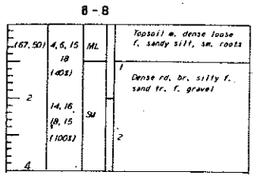


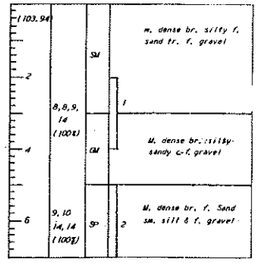


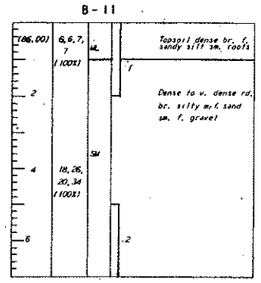


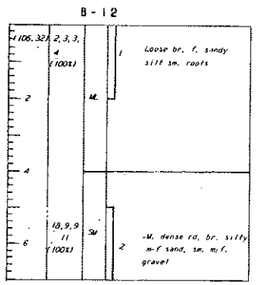


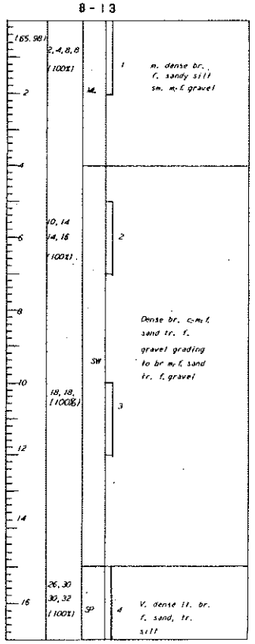


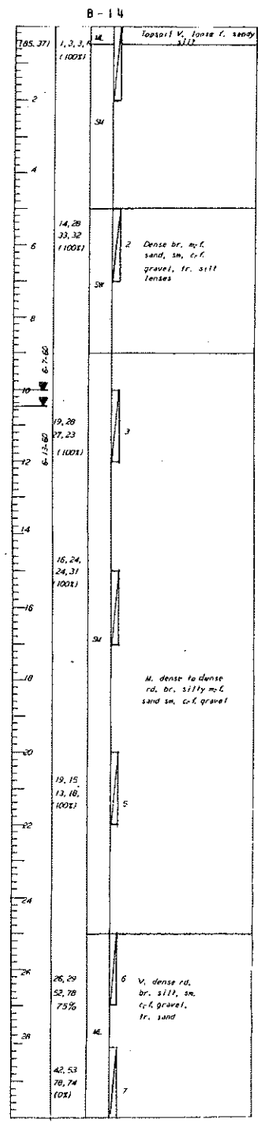


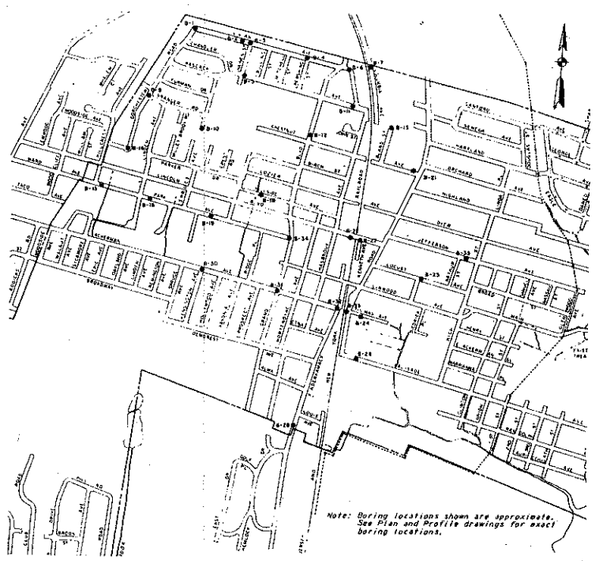










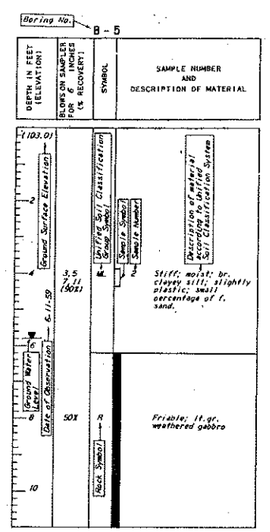


BORING LOCATION PLAN

SCALE 400 0 400 800 1200 FEET

TYPICAL BORING LOG SYMBOLS AND NOTES

BORING LOG



DEFINITION OF SYMBOLS AND ABBREVIATIONS

ang.	angular
bl.	black
blu.	blue
br.	brown
c.	coarse
dk.	dark
f.	fine
frags.	fragments
gn.	green
gr.	grey
lt.	light
m.	medium
max.	maximum
mot.	mottled
org.	organic
pkts.	pockets
rd.	red
rnd.	round
sm.	some
tr.	trace
v.	very

Split Spoon Samples, 2" O.D., 1⅜" I.D.

Split Spoon Samples, 3" O.D., 2⅜" I.D.

Rock Core, 5X size

GENERAL NOTES:

1. The subsurface information and data furnished herein are not intended as representations or warranties but are furnished for information only. It is expressly understood that the owner will not be responsible for the accuracy thereof or for any deduction, interpretation or conclusion drawn therefrom by the Contractor. The information is made available in order that the Contractor may have ready access to the same information available to the owner and is not part of this contract.

2. The blows on sampler as shown in the boring logs were obtained by the following driving methods:

SIZE OF SAMPLER	WEIGHT OF HAMMER (LBS.)	HEIGHT OF DROP (IN.)
2" O.D.	140	30
3" O.D.	300	18

NO	DATE	REMARKS

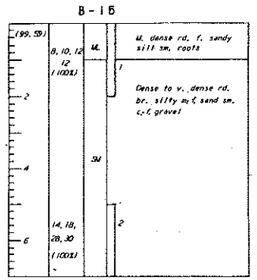
REVISIONS

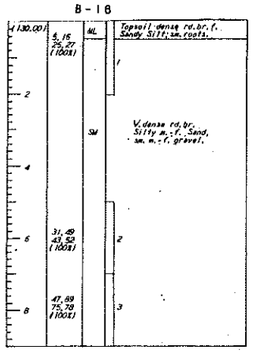
BOROUGH OF EMERSON
NEW JERSEY

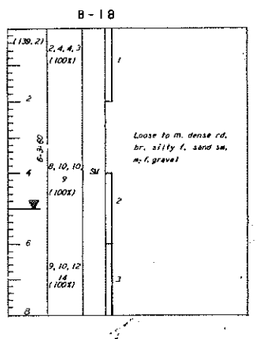
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
SUBSURFACE DATA I

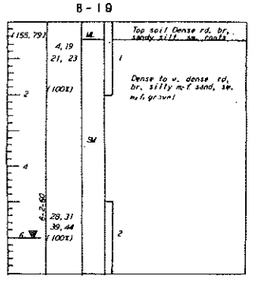
TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

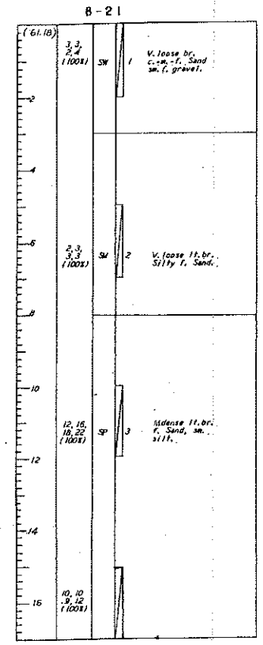
DES. DRAWN S.G. CHECKED T.Y.C. RECOMMENDED: H. W. Blake	SCALE AS SHOWN	DATE AUG. 11, 1960
	SUBMITTED: J. K. Burgess PARTNER	DRAWING 99C

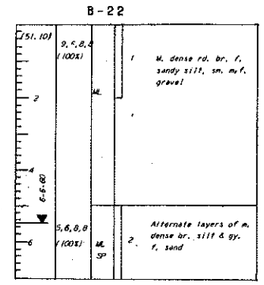


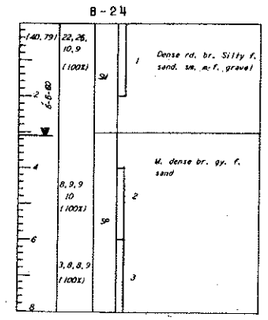


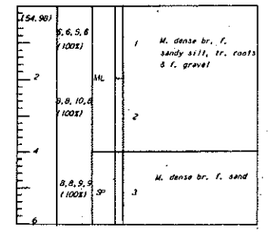


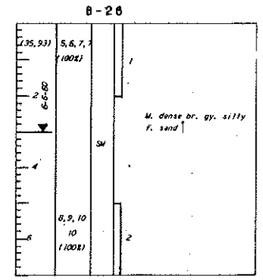


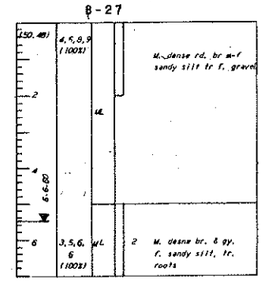


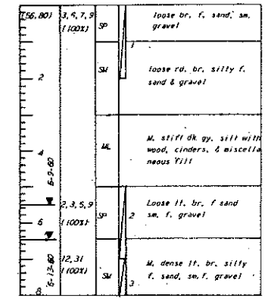


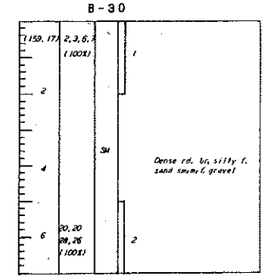


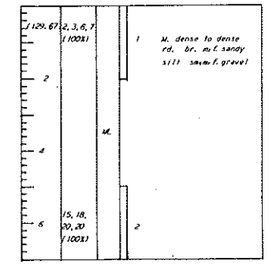


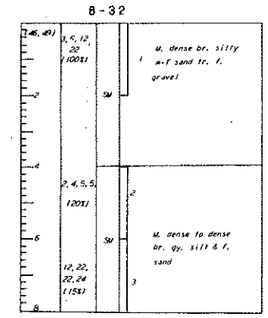


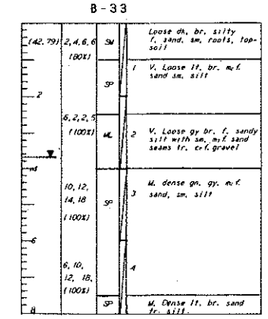


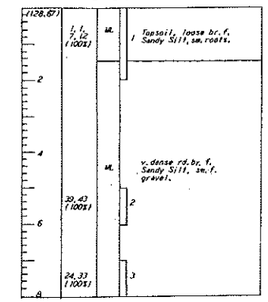


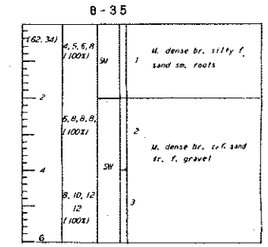


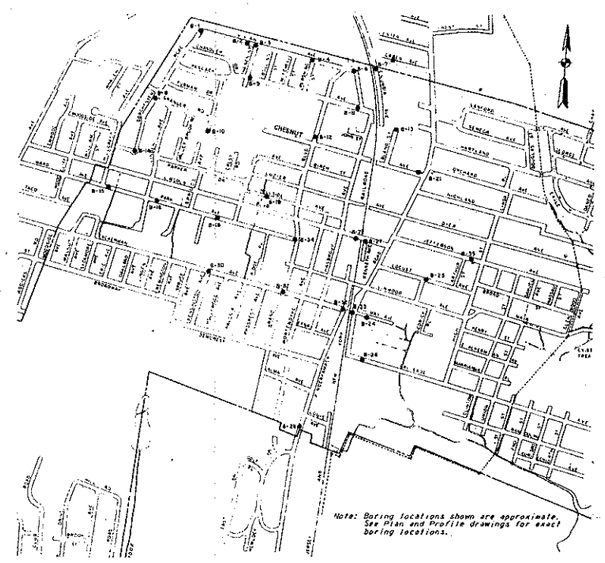












BORING LOCATION PLAN

SCALE 400 0 400 800 1200 FEET

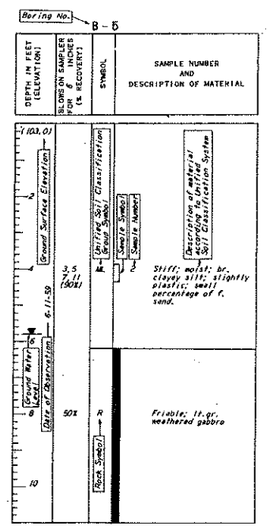
GROUND WATER LEVEL FROM PIEZOMETER OBSERVATIONS

(Additional ground water level information given in boring logs)

DATE OBSERVED	DEPTH OF GROUND WATER LEVEL BELOW GROUND SURFACE (FT) FOR BORINGS SHOWN				
	B-2	B-7	B-14	B-28	B-33
6/11/60	18.0	11.2	10.4	6.5	3.8
6/21/60	18.3	11.4	10.9	7.4	4.2
7/12/60	--	12.2	11.0	8.2	4.6
8/13/60	--	--	10.6	7.7	4.6

TYPICAL BORING LOG SYMBOLS AND NOTES

BORING LOG



DEFINITION OF SYMBOLS AND ABBREVIATIONS

ang.	angular
bl.	black
blu.	blue
br.	brown
c.	coarse
dk.	dark
f.	fine
frags.	fragments
gn.	green
gr.	grey
lt.	light
m.	medium
max.	maximum
mot.	mottled
org.	organic
pkts.	pockets
rd.	red
rnd.	round
sm.	some
tr.	trace
v.	very

Split Spoon Samples, 2" O.D., 1 3/8" I.D.

Split Spoon Samples, 3" O.D., 2 1/4" I.D.

Rock Core, BX size

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SIZE OF SAMPLER	WEIGHT OF HAMMER (LBS.)	HEIGHT OF DROP (IN.)
2" O.D.	140	30
3" O.D.	300	18

NO.	DATE	REMARKS	B

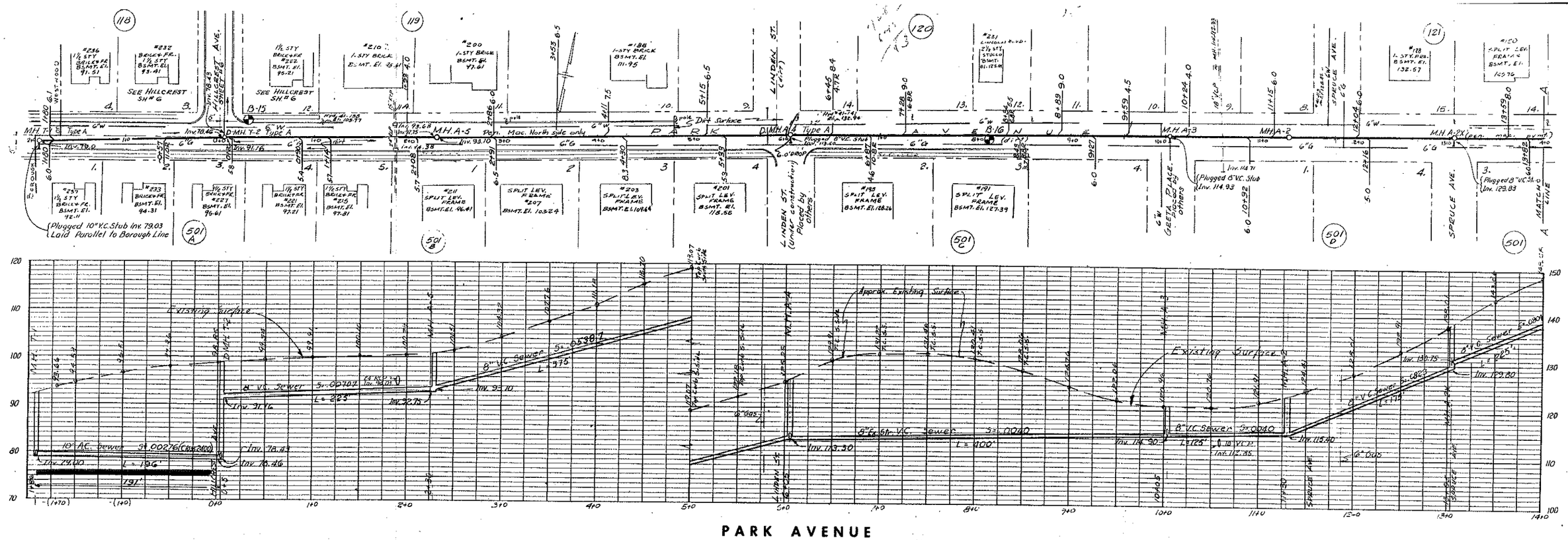
REVISIONS

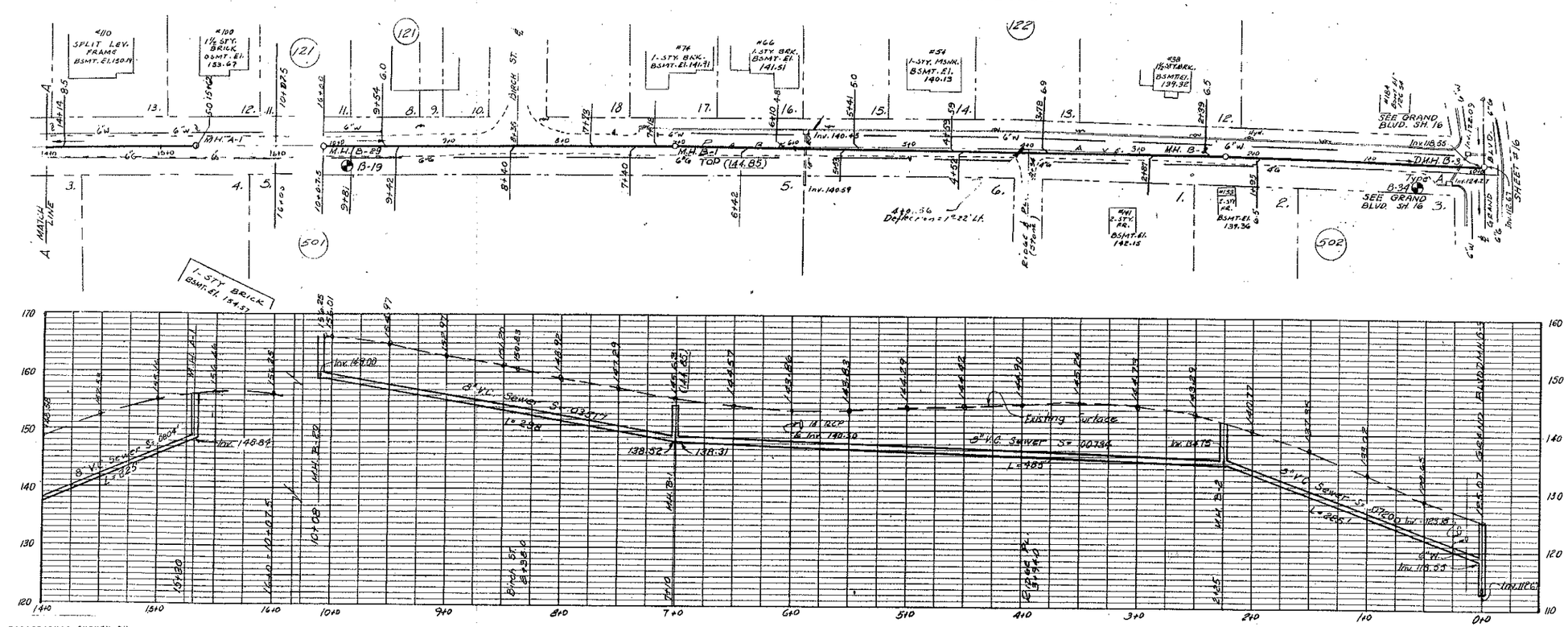
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
SUBSURFACE DATA II

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. DRAWN: S.G.
CHECKED: T.Y.C.
RECOMMENDED:
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED:
PARTNER
DRAWING NO. 990-3





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
4	2-12-62	As Built	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

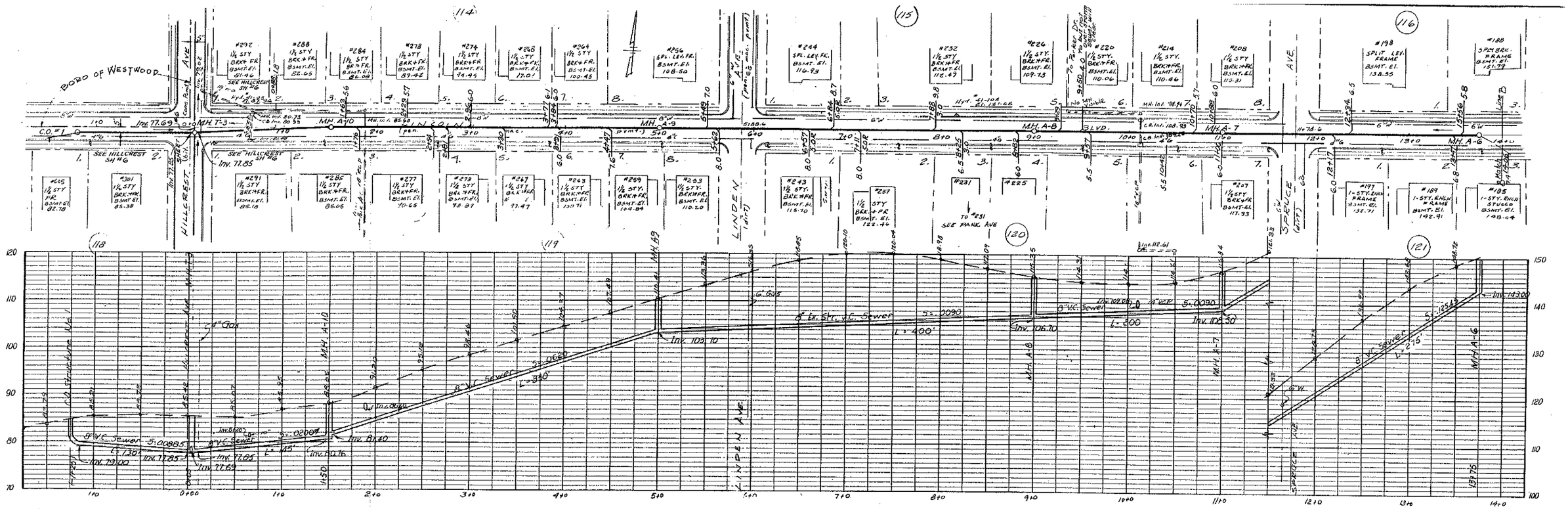
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

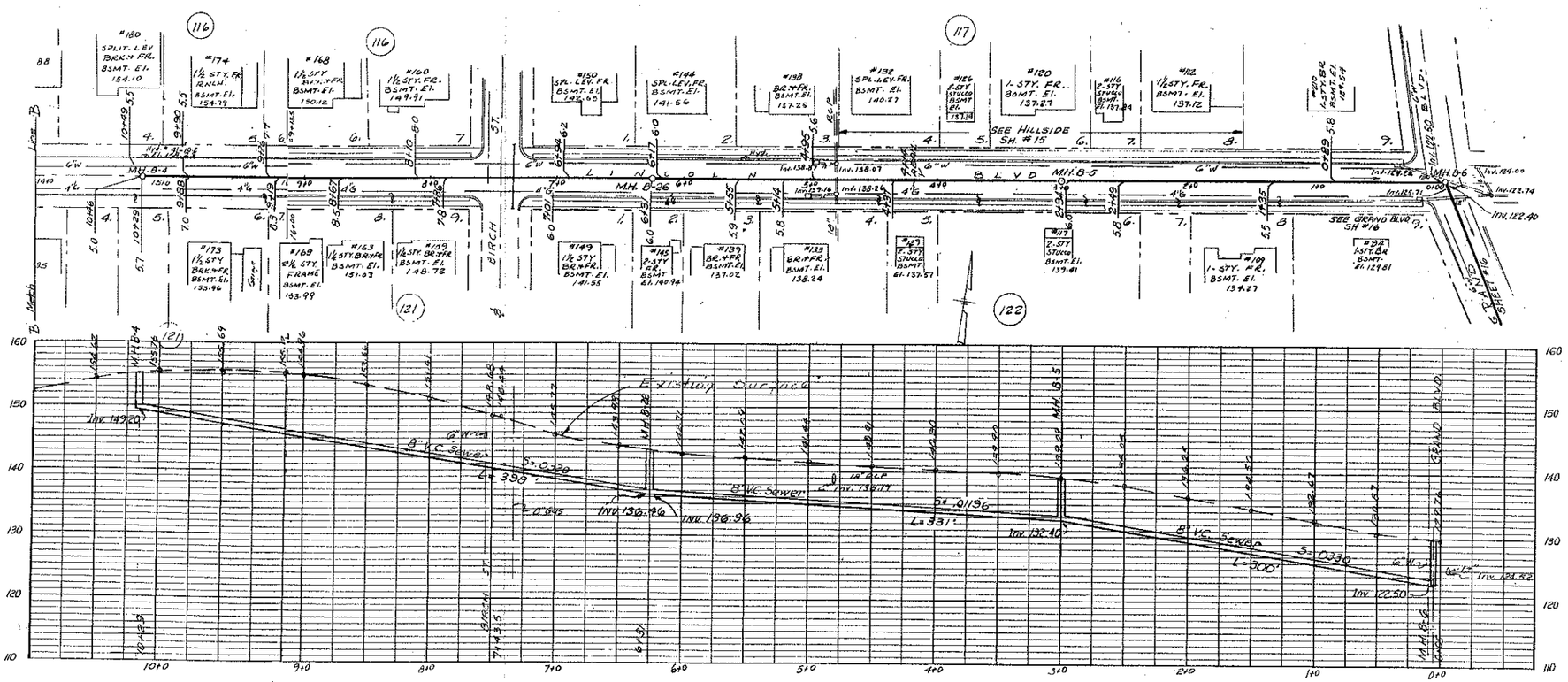
DES. RAO DRAWN: GKH
CHECKED: DJC
RECOMMENDED: W. W. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Jones and K. Bryant
PARTNER

DRAWING NO. 990-4



LINCOLN BOULEVARD



LINCOLN BOULEVARD

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2-12-62	As Built	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

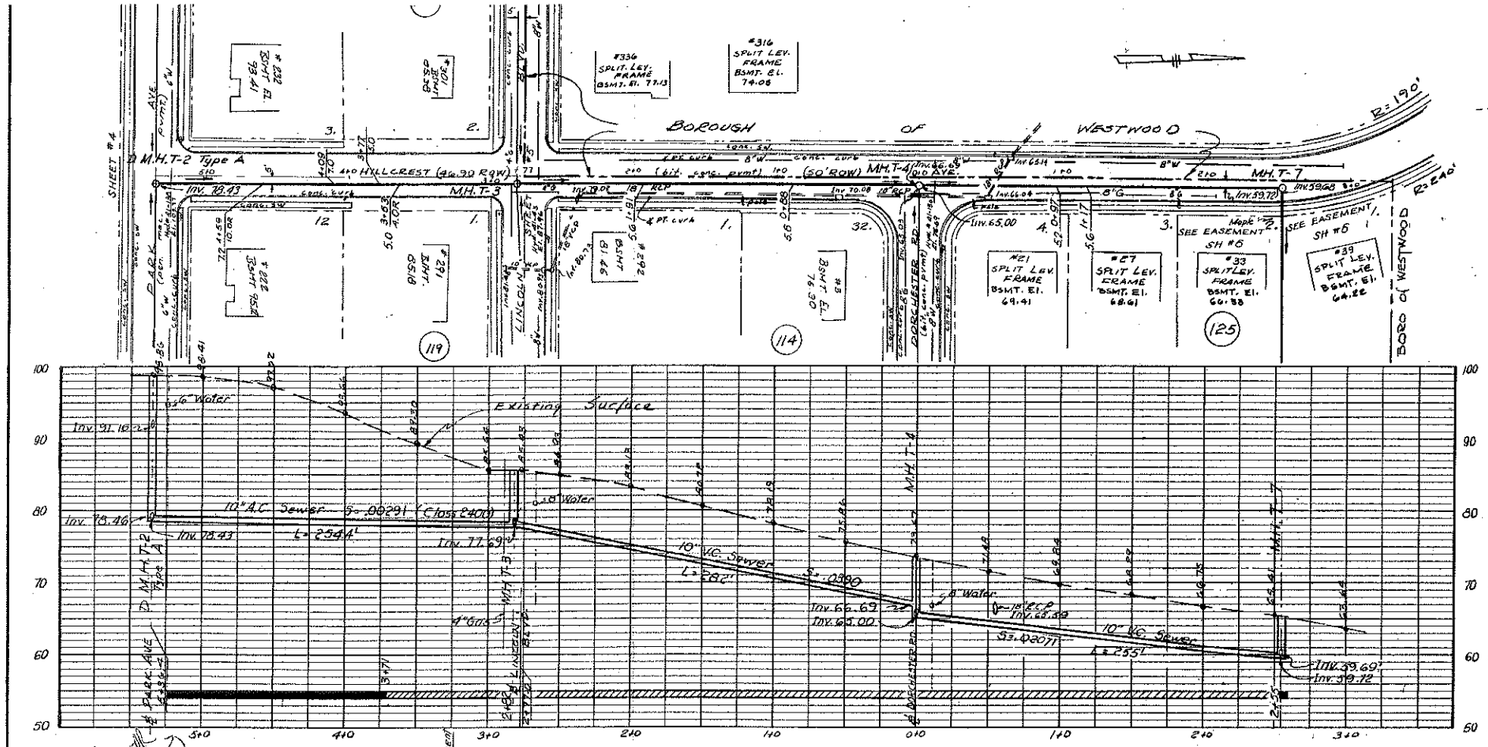
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

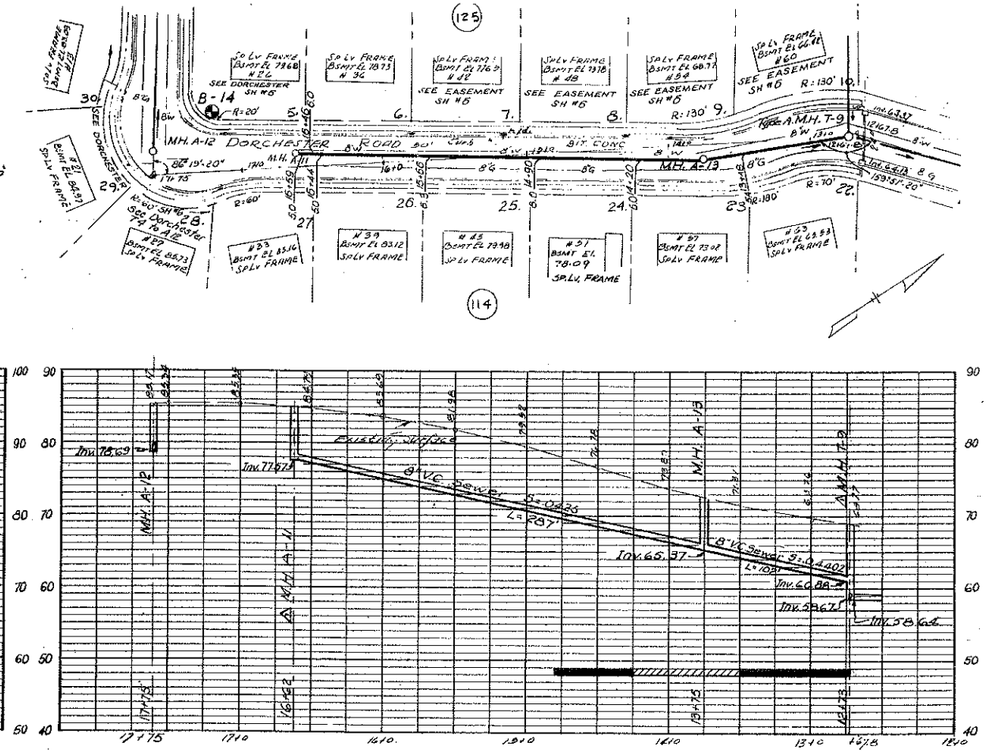
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

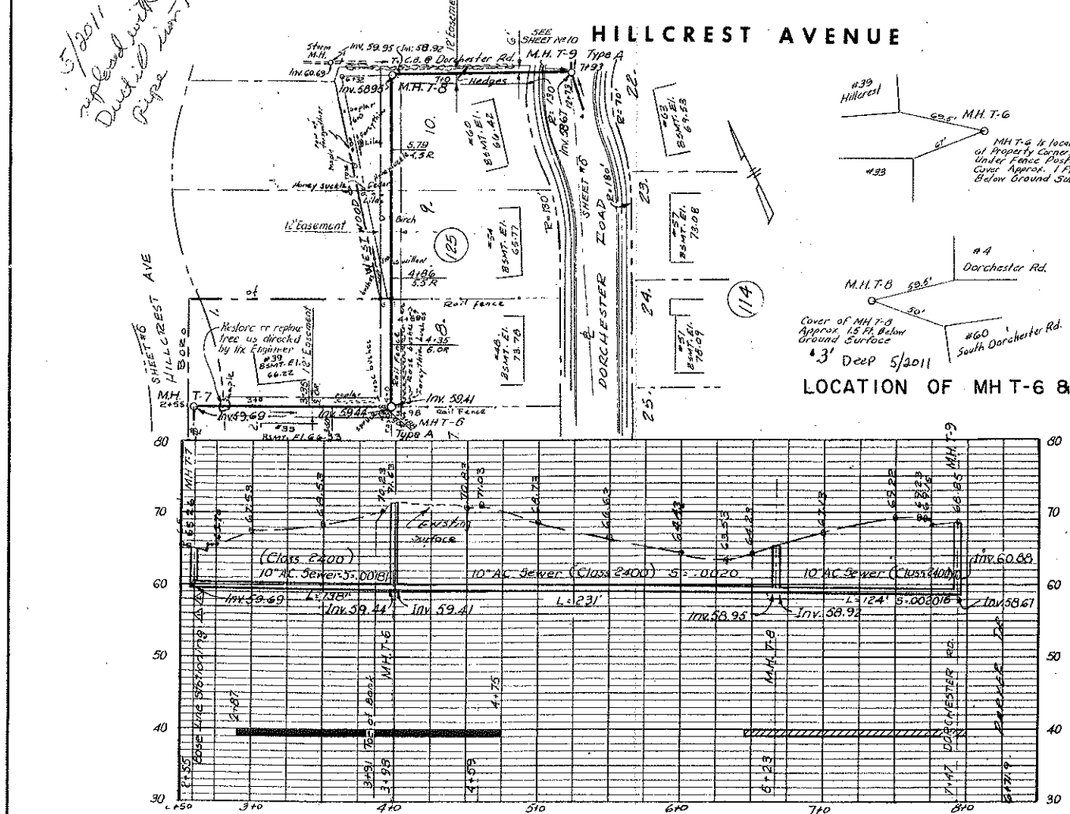
DES. RAO DRAWN. OG
CHECKED DJC
RECOMMENDED H. W. Blake

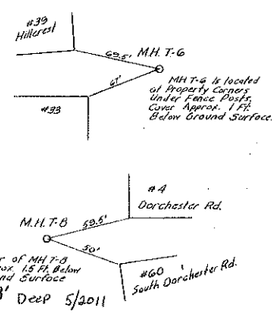
SCALE AS SHOWN
DATE AUG. 11, 1960
SUBMITTED Edward K. Bryant PARTNER

DRAWING NO. 990-5

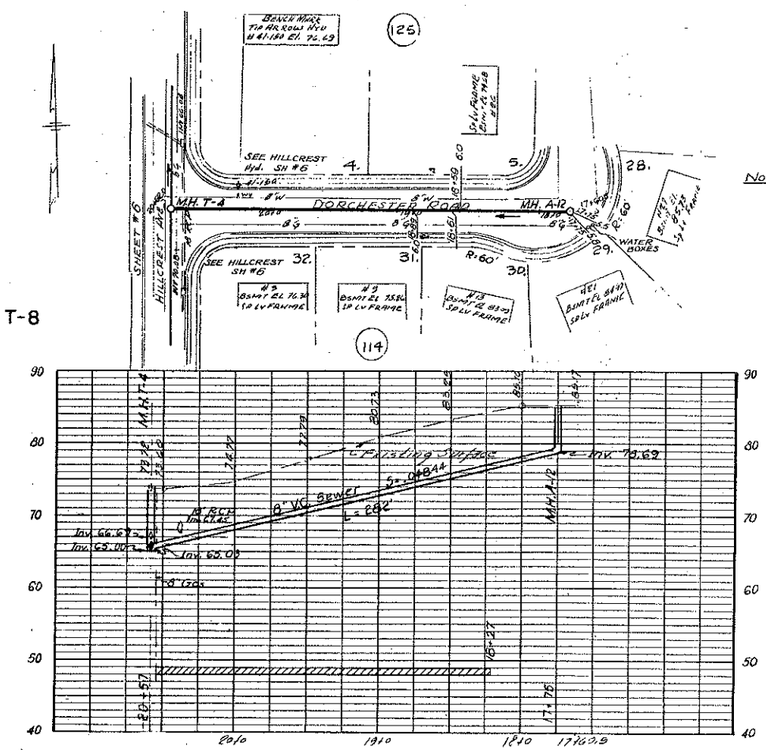








LOCATION OF MH T-6 & MH T-8



Note:
Construct House Connection for No. 21 from M.H. A-12.

5/2011 replaced with Ductile Iron Pipe

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

HILLCREST AVENUE

DORCHESTER ROAD

EASEMENT
DORCHESTER RD. TO HILLCREST AVE.

DORCHESTER ROAD

NO.	DATE	REMARKS	BY
4	2-12-62	As Built	
3	7-20-61	MH T-7 Relocated in Hillcrest Ave. MH T-5 Eliminated.	RJW
2	5-25-61	Raised 10" Trunk Sewer. Eliminated sewer in Dorchester Rd. and added MH. A-11	RJW

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

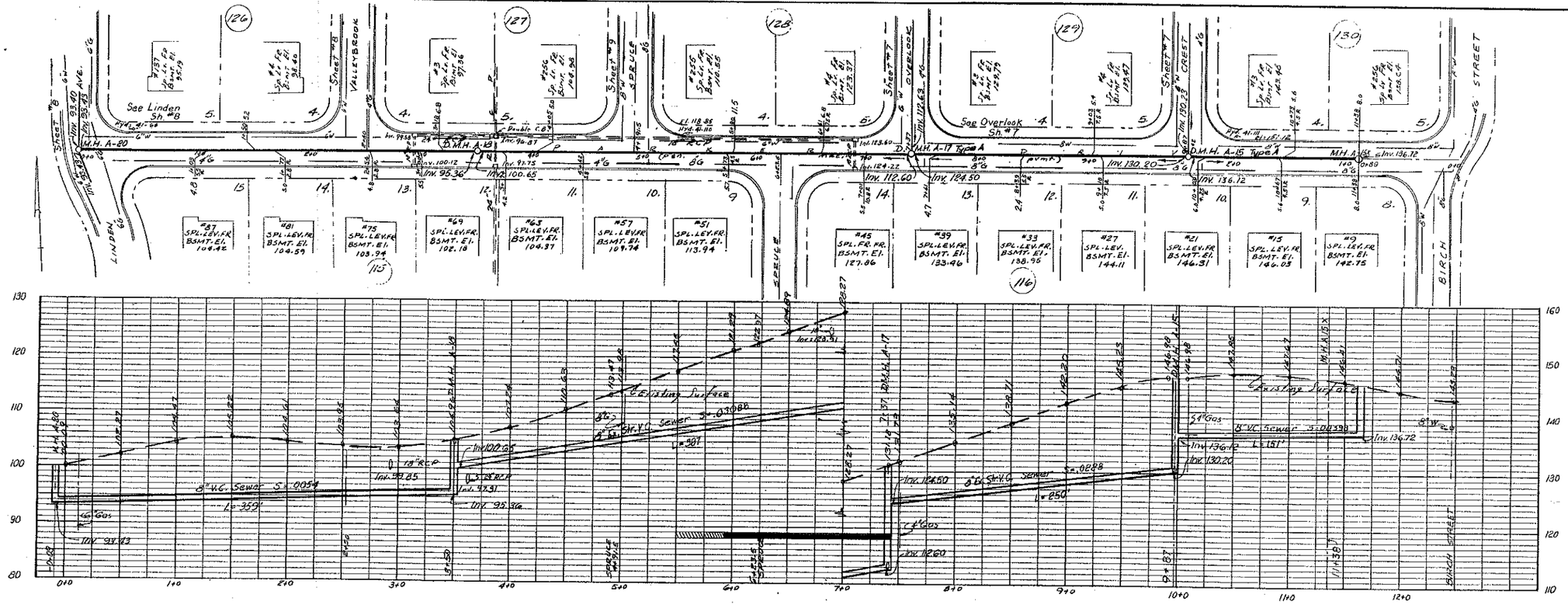
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

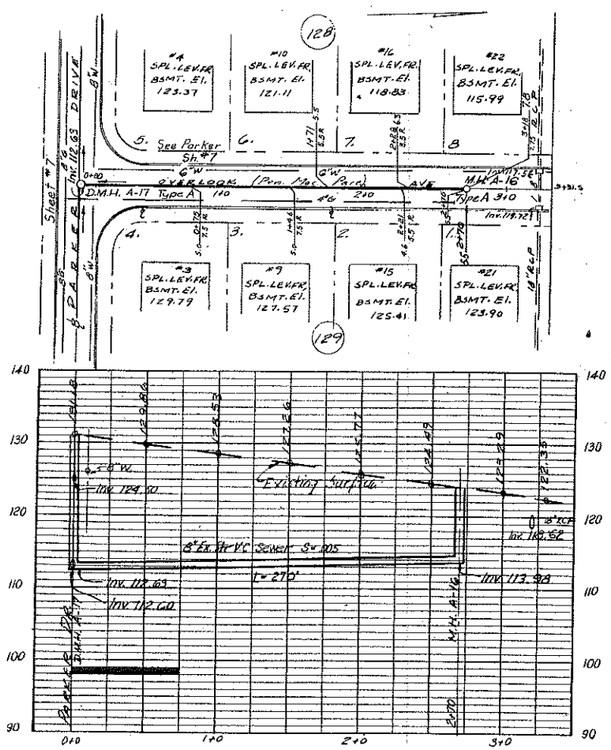
DES. RAO DRAWN: OG
CHECKED: DJC
RECOMMENDED: H. W. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED Stewart K. Bryant PARTNER

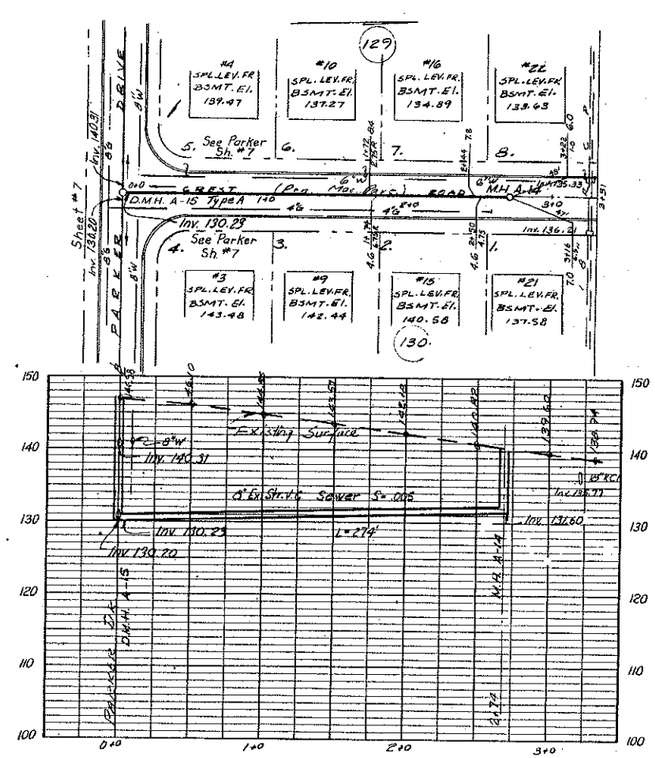
DRAWING NO. 990-6



PARKER DRIVE



OVERLOOK AVENUE



CREST ROAD

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2-12-62	AS BUILT	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

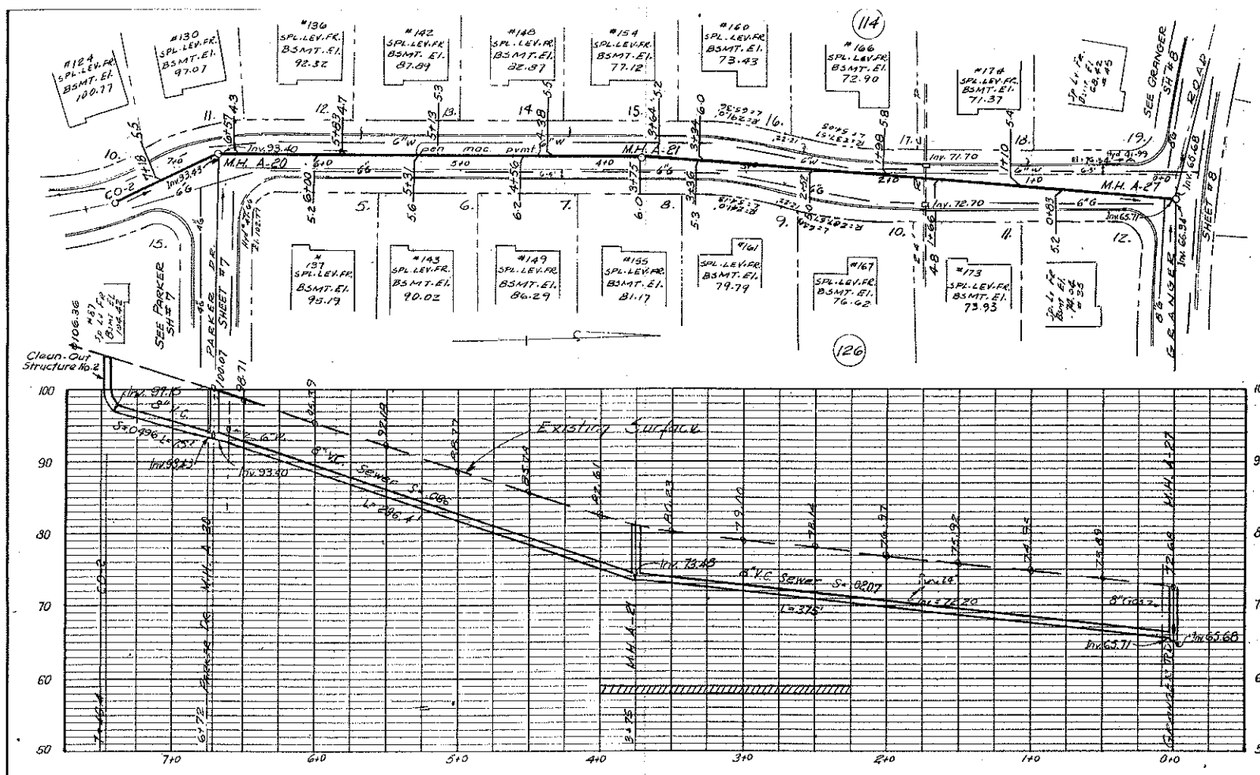
SANITARY SEWER SYSTEM

STAGE ONE - NORTHWESTERLY SECTION

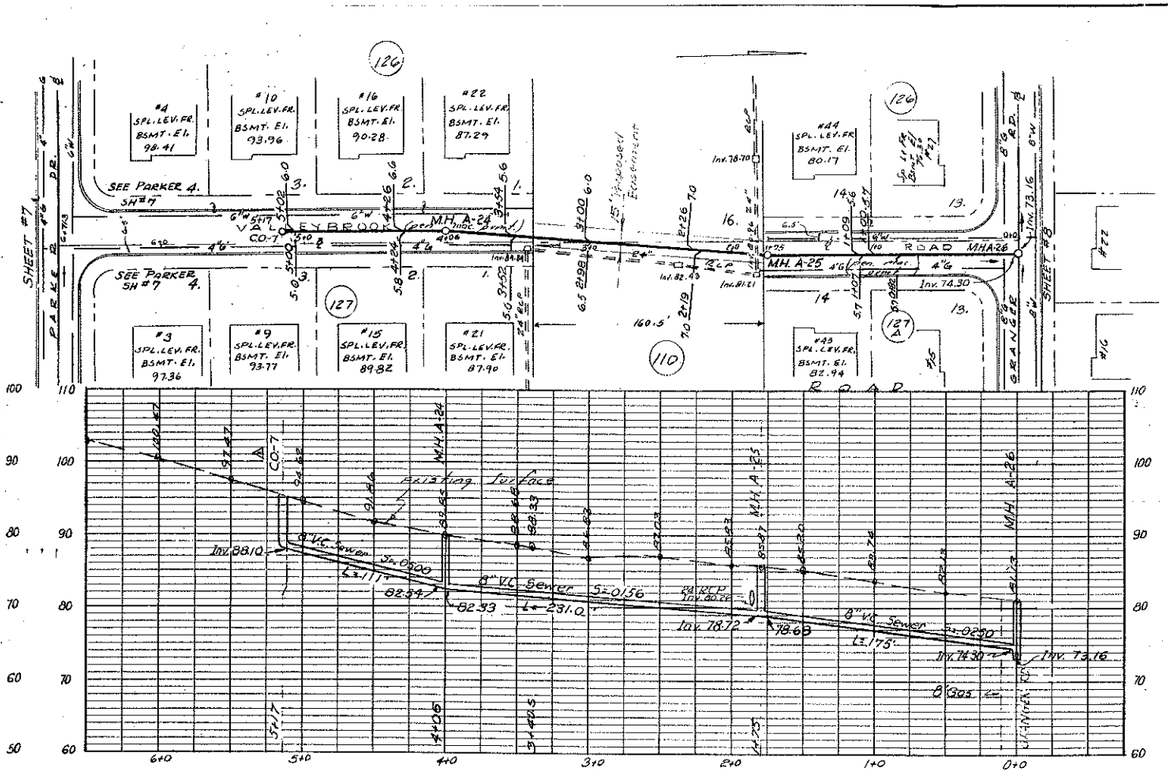
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

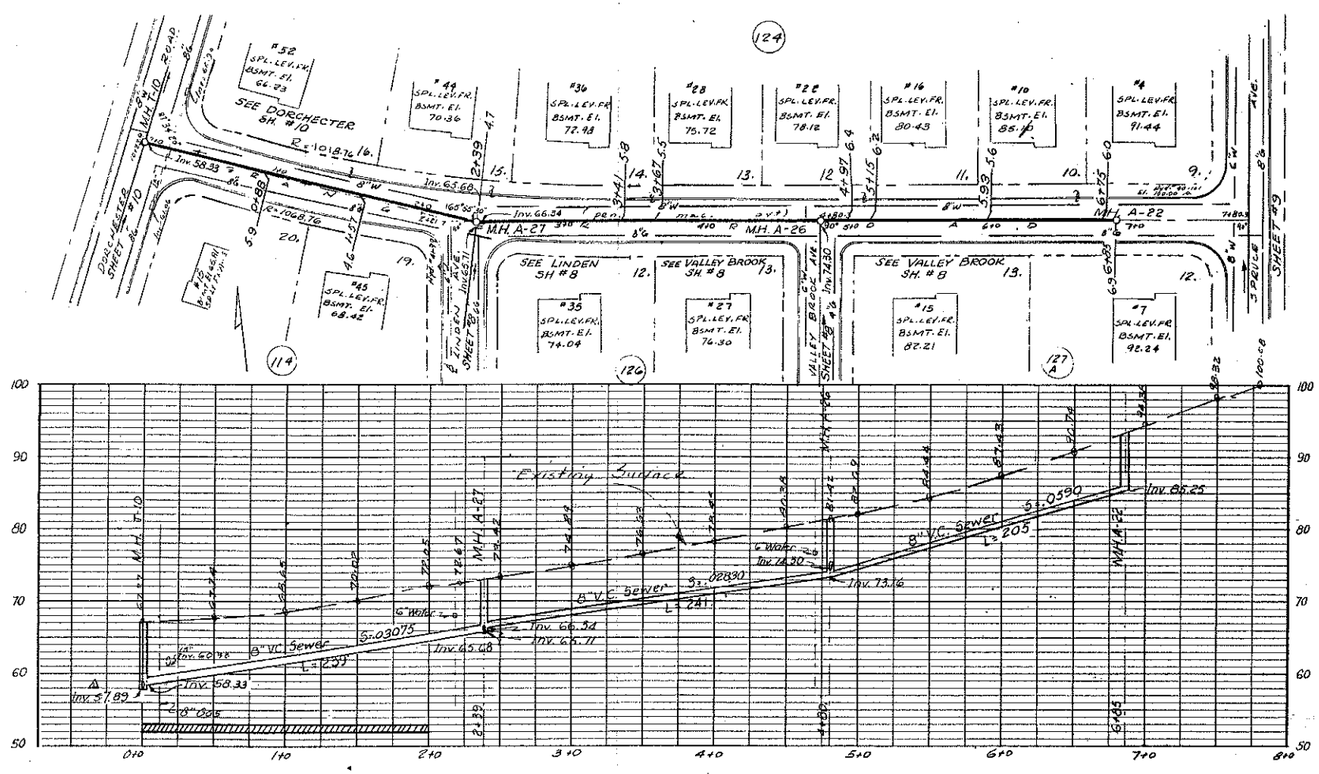
DES. RAO DRAWN: GRA CHECKED DJC RECOMMENDED: R. H. Blake	SCALE AS SHOWN	DATE: AUG. 11, 1960	DRAWING NO. 990-7
	SUBMITTED: Edward K. Bryant		



LINDEN AVENUE



VALLEY BROOK ROAD



GRANGER ROAD

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
3	2-12-62	As Built	
2	5-25-61	Revised Trunk Sewer in Dorchester Rd. Substituted C.O-7 for M.H. A-23 in Valley Brook Rd.	Awl

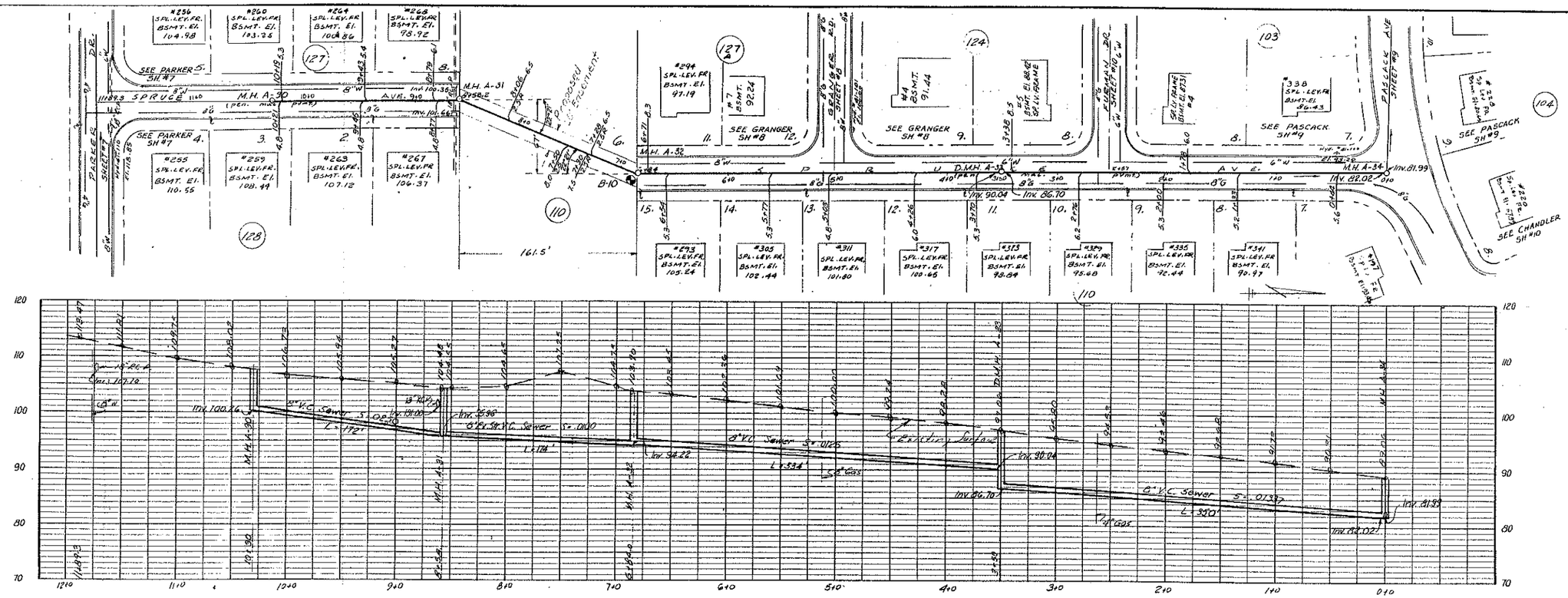
REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

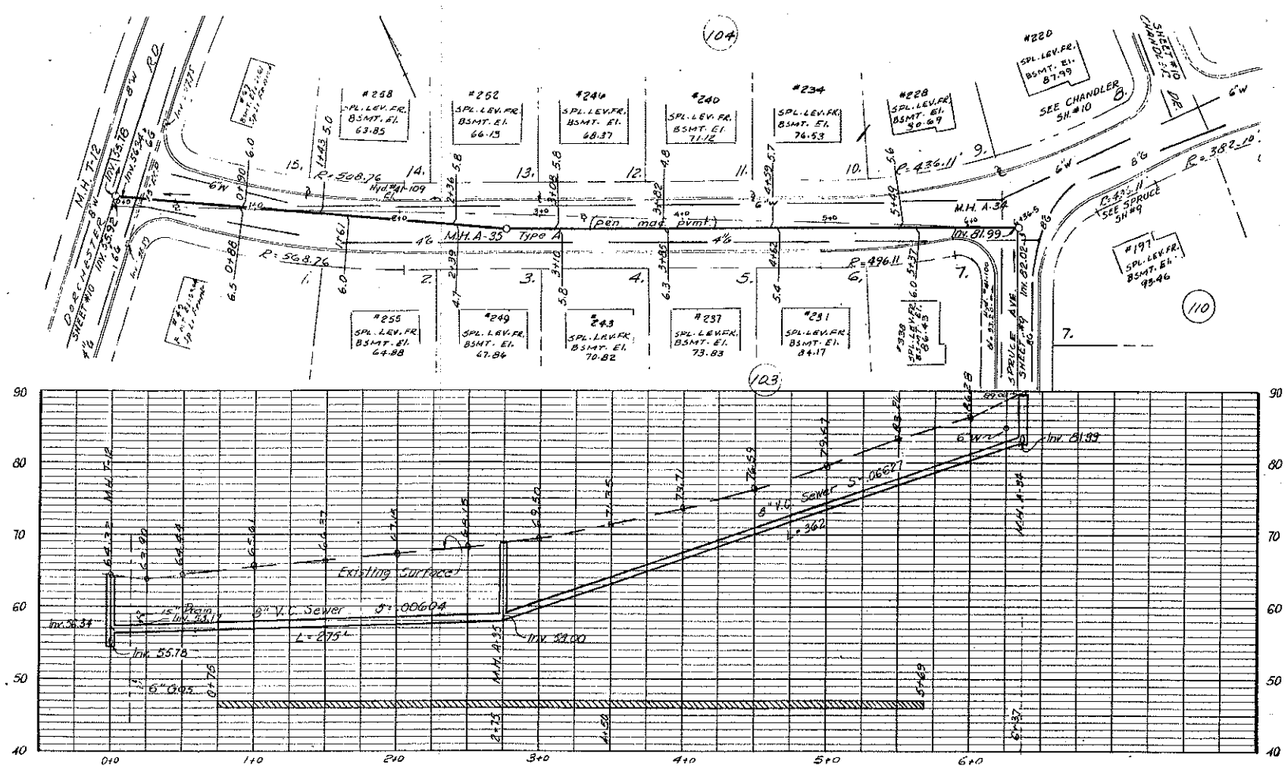
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. RAO DRAWN: OG
CHECKED. DJC
RECOMMENDED: H. W. Blake
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant PARTNER
DRAWING NO. 990-8



SPRUCE AVENUE



PASCACK AVENUE

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO	DATE	REMARKS	BY
2	2-12-62	As Built	
1	3-6-61	Raised Trunk Sewer in Dorchester Rd.	

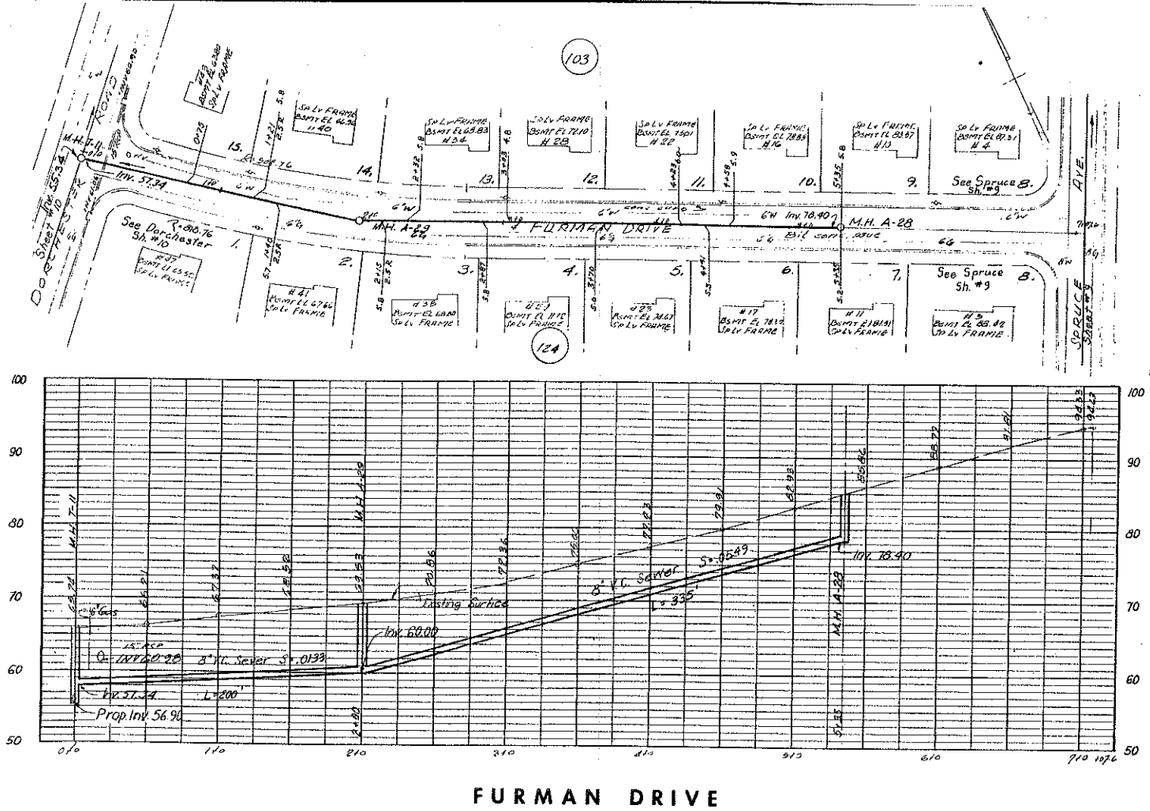
REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

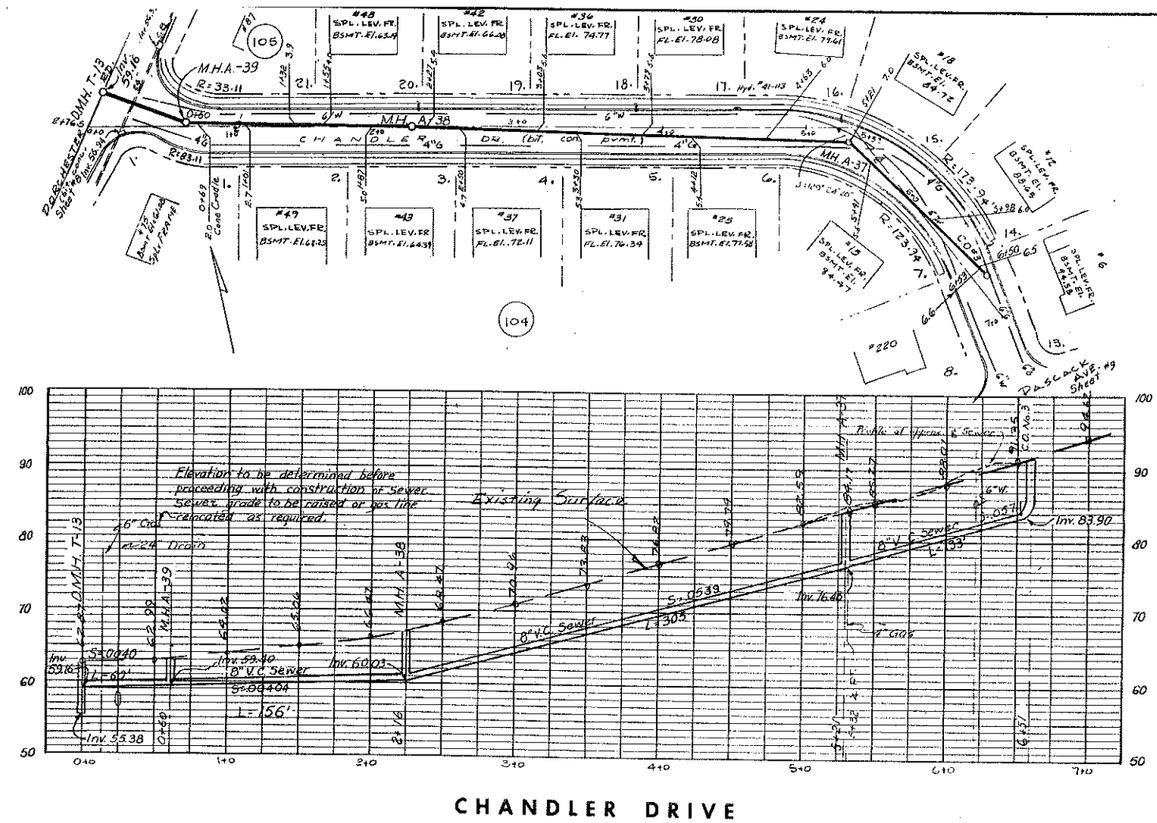
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

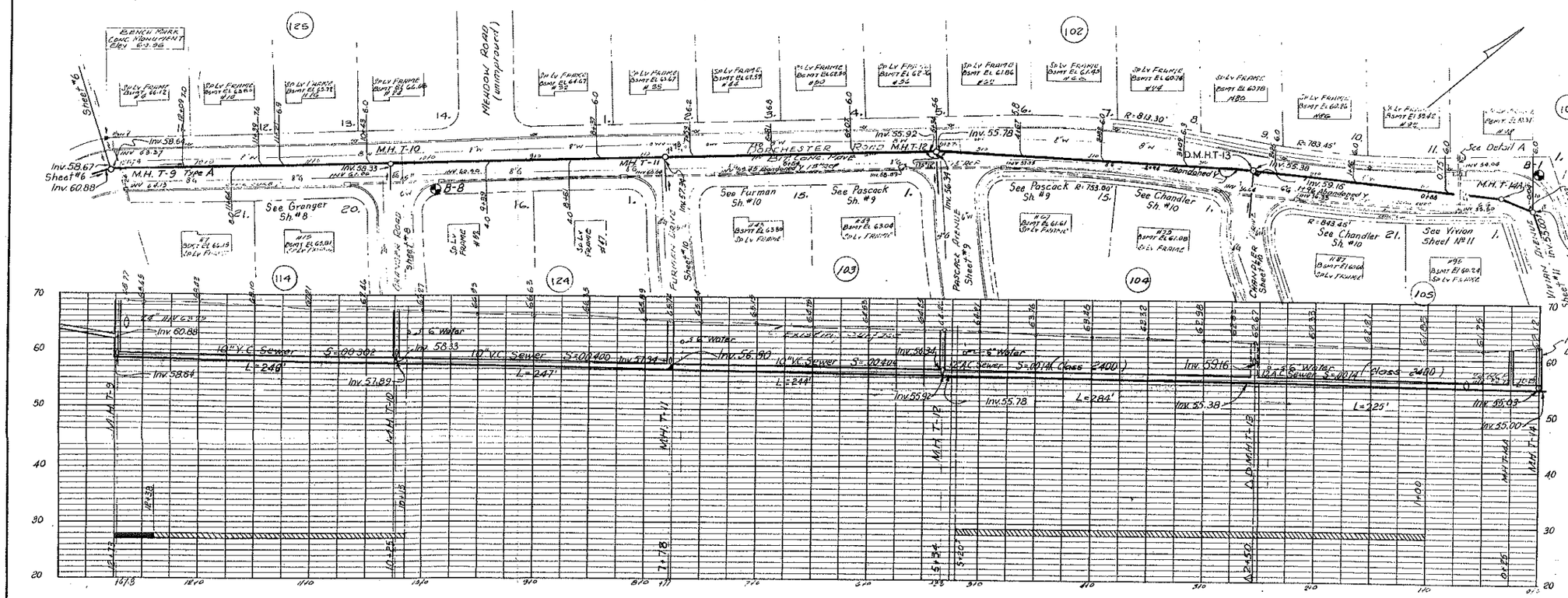
DES. RAO DRAWN GRA
CHECKED DIC
RECOMMENDED
SCALE AS SHOWN
DATE AUG. 11, 1960
SUBMITTED
DRAWING NO. 990-9



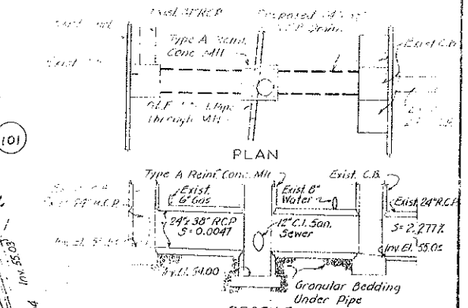
FURMAN DRIVE



CHANDLER DRIVE



DORCHESTER ROAD



NOTES:

The Contractor shall remove the existing 24" R.C.P. between inlets & construct the proposed 24"x38" drain as shown on the dwgs. or as directed by the Engineer.

The 12" sewer passing through the Type A reinf. conc. M.H. shall be 12" C.I. pipe conforming to A.S.A. 21.8 or approved equal.

The proposed 24"x38" drain shall conform to ASTM C-76-59T Class II or approved equal.

NO.	DATE	REMARKS	BY
2	2.12.62	As Built	
1	5.25.61	Raised Trunk Sewer Added MHA-39	WWB

REVISIONS

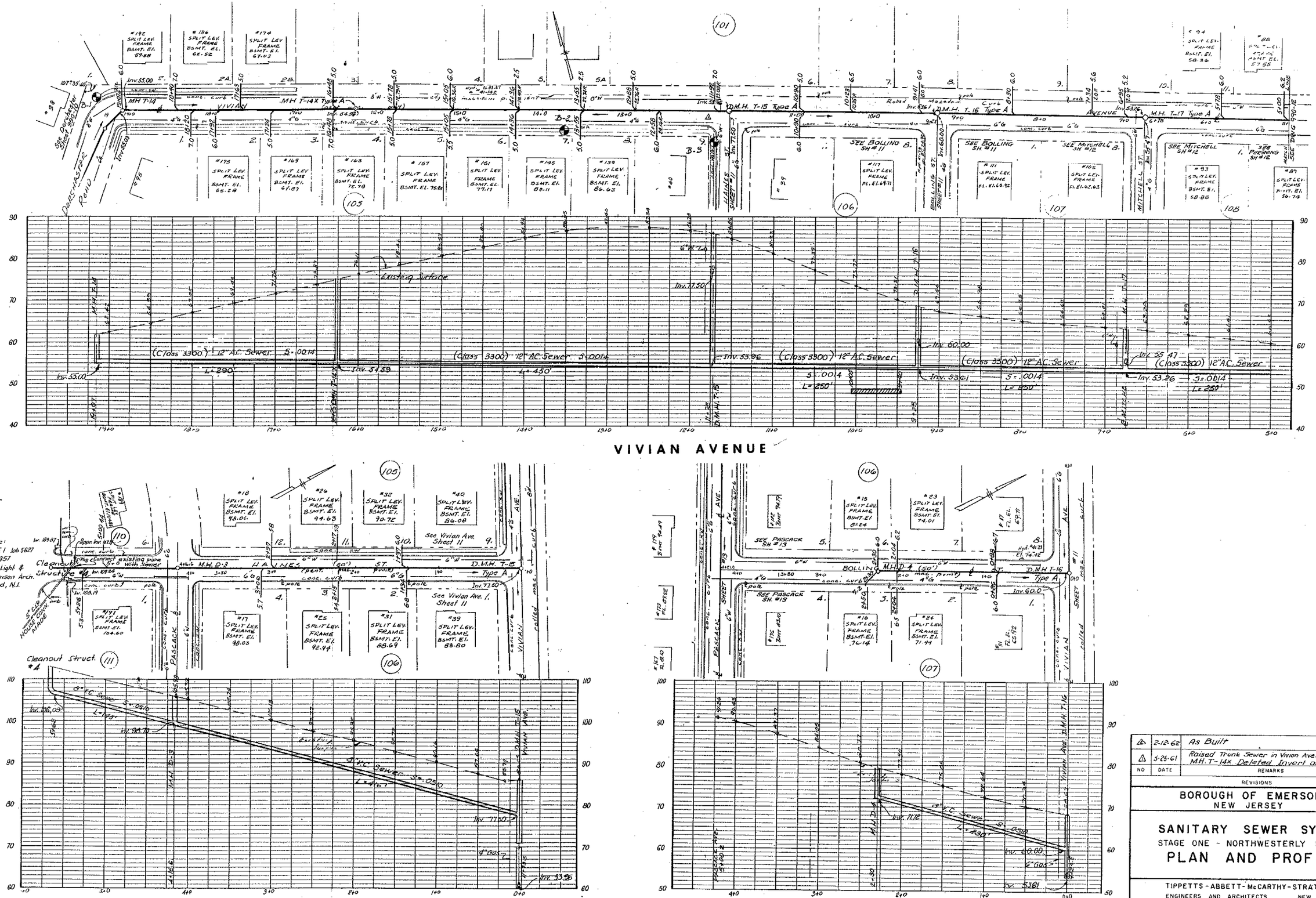
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: RAD DRAWN: OG
CHECKED: DJC
RECOMMENDED: N. W. Black
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-10

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY



TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO	DATE	REMARKS	BY
2	2-12-62	As Built	
1	5-25-61	Raised Trunk Sewer in Vivian Ave. Relocated M.H. T-14x Deleted Invert and note.	W.K.P.

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

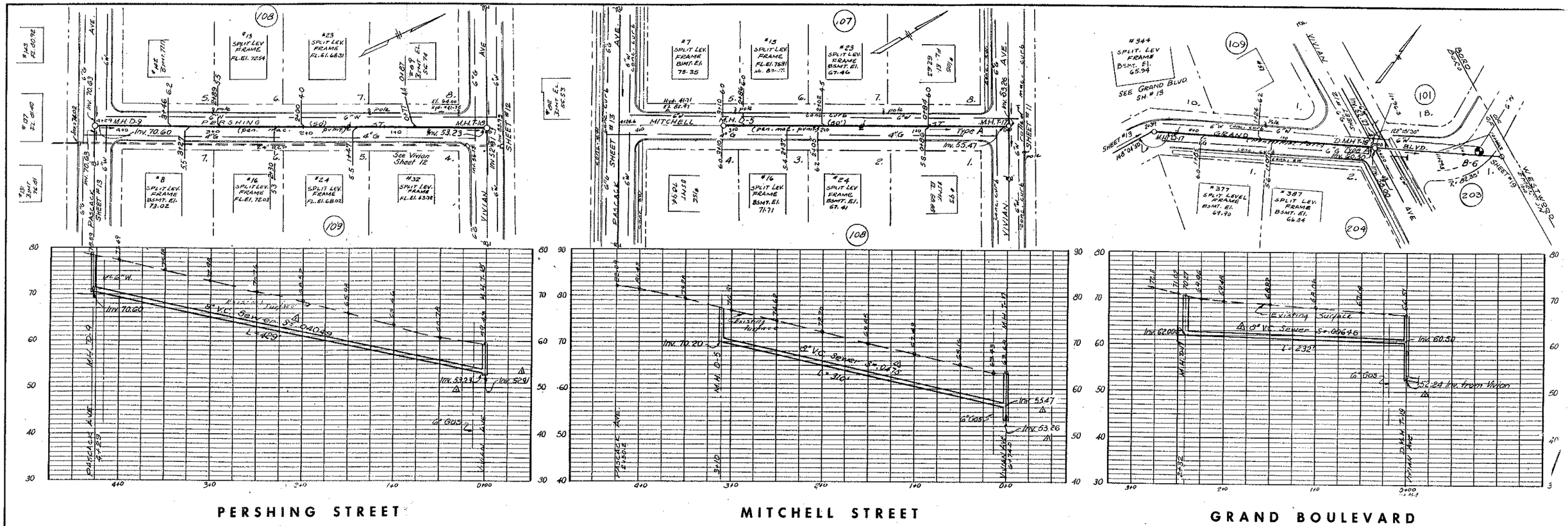
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

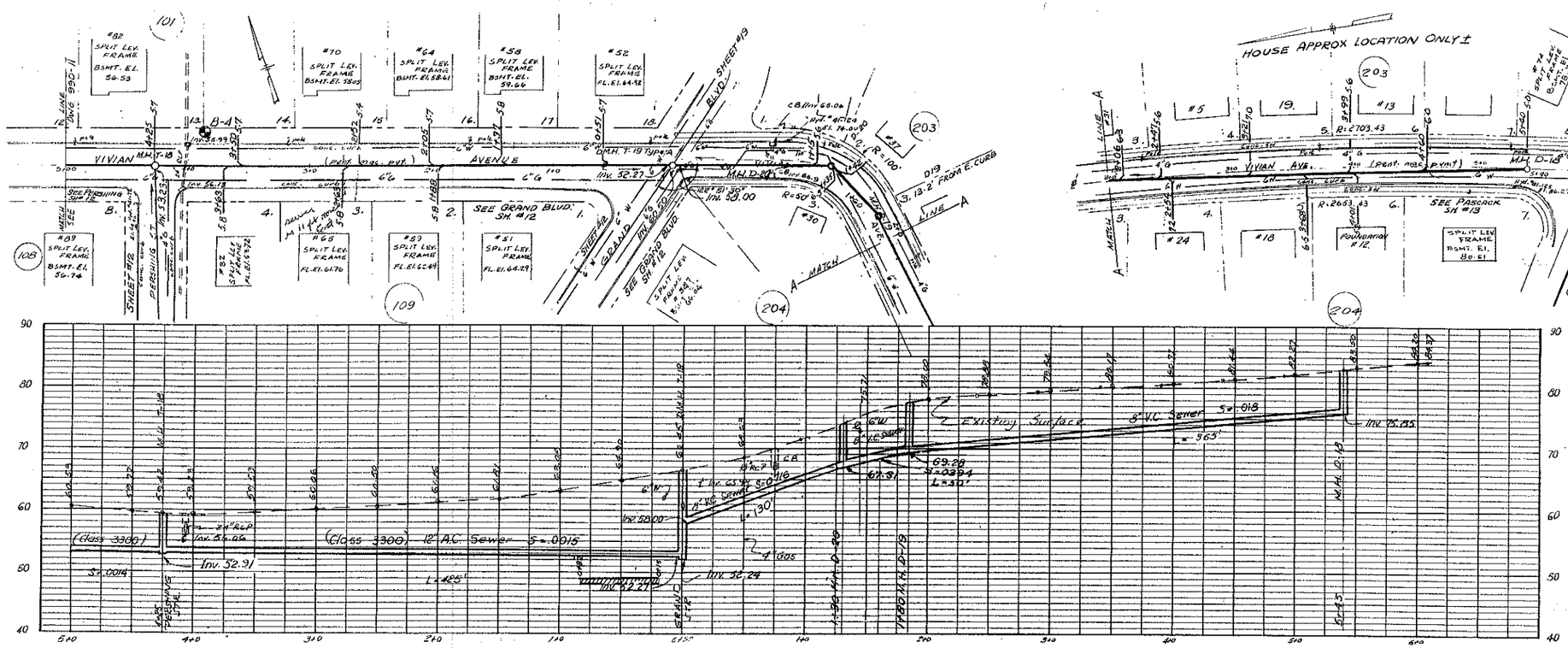
TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GWU DRAWN: GRB
CHECKED: DJC
RECOMMENDED: W. K. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant PARTNER

DRAWING NO 990-11





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
2	2-12-62	As Built	
1	5-25-61	Raised Trunk Sewer in Vivian Ave. Substituted 8" V.C. for 8" A.C. in Grand Blvd.	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

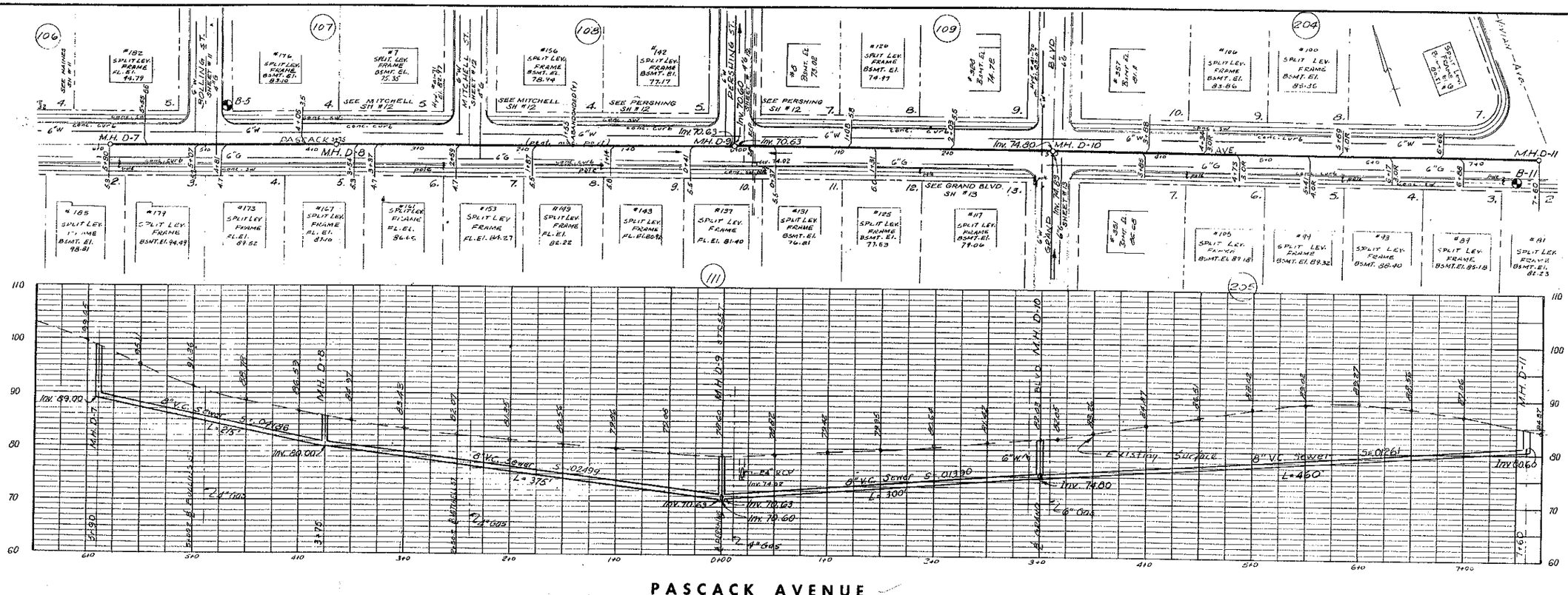
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

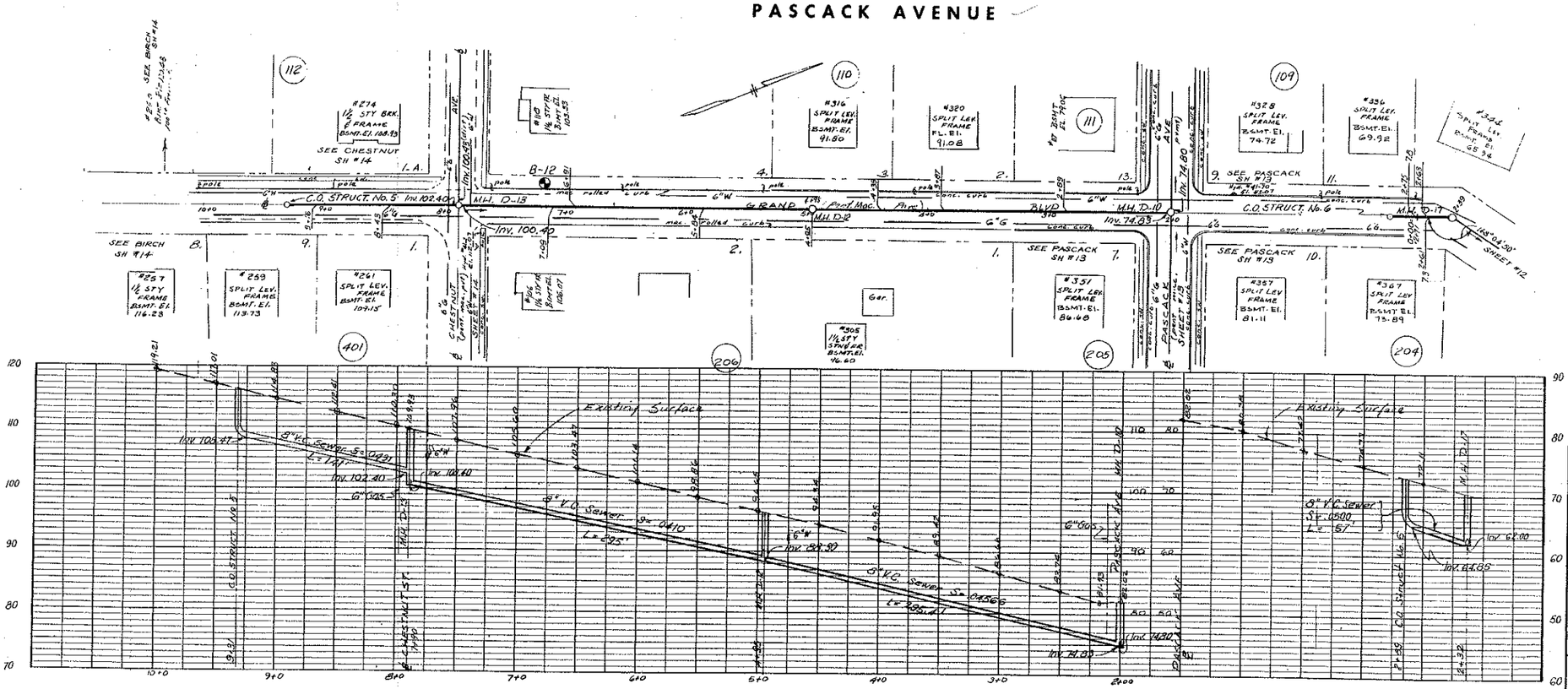
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GNU DRAWN: GRA
CHECKED: DJC
RECOMMENDED: N. W. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant

DRAWING NO. 990-12





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO	DATE	REMARKS	BY
△	2-12-62	As Built	

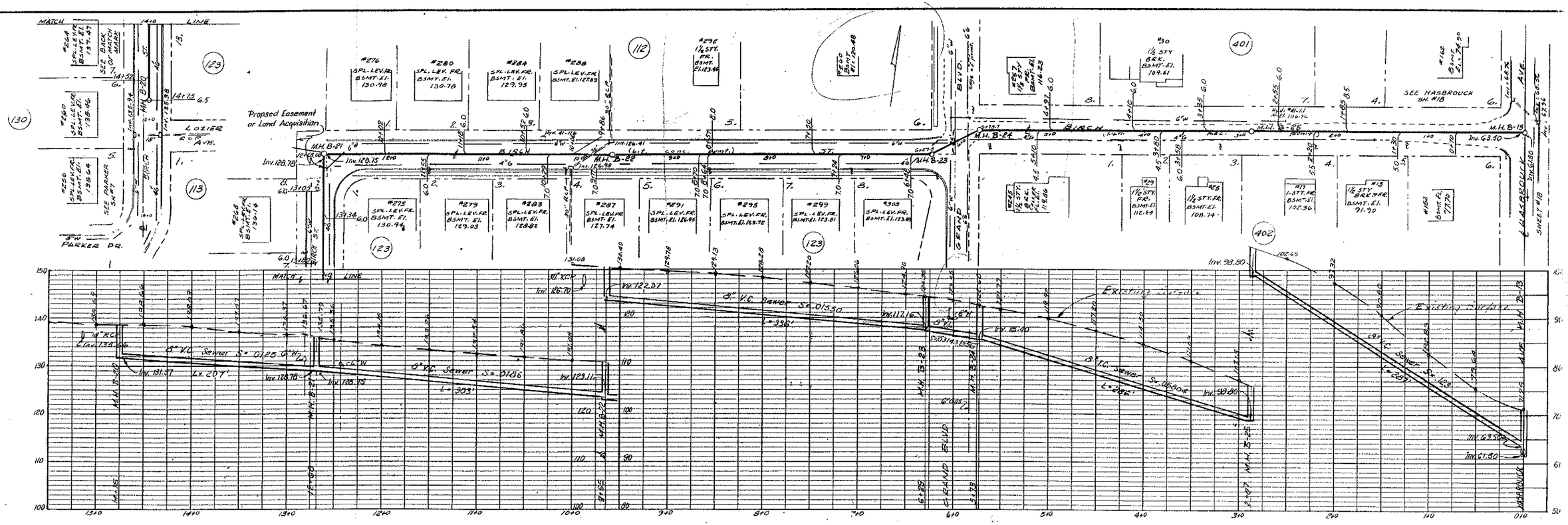
REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

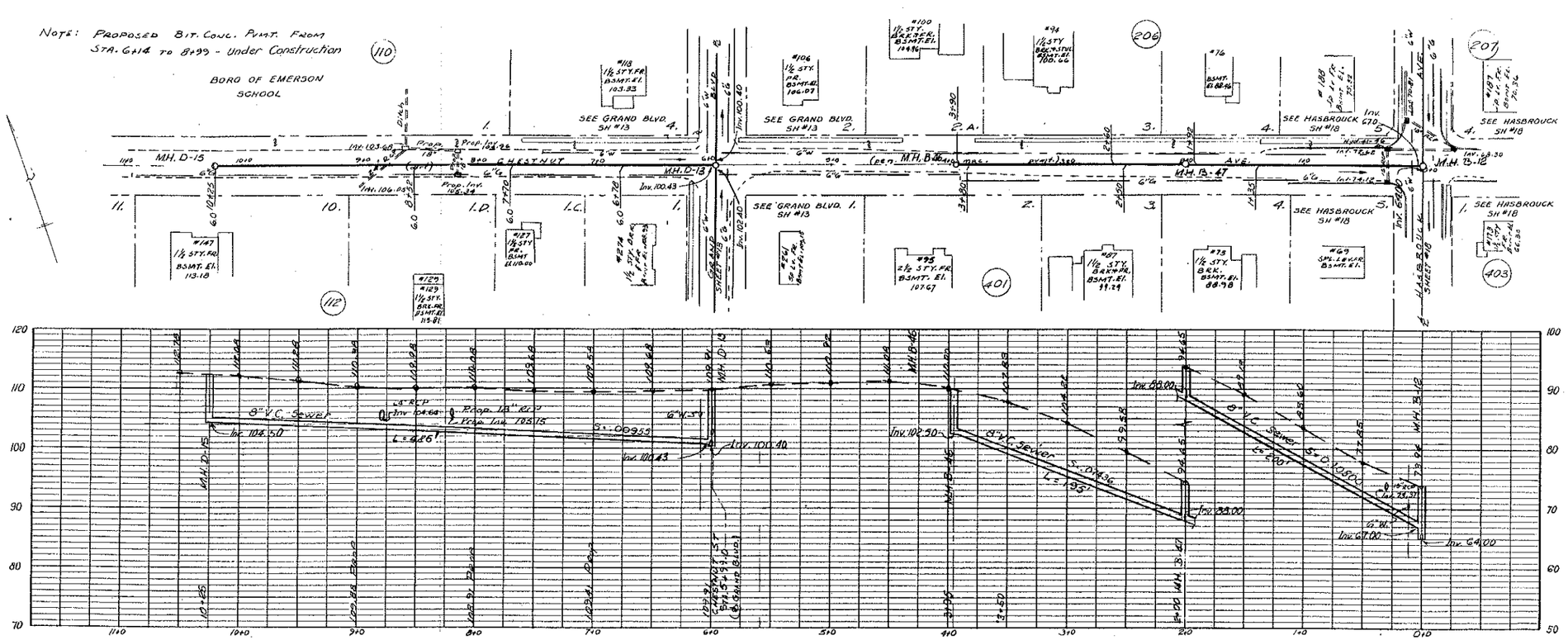
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES GWJ DRAWN GRA
CHECKED DJC
RECOMMENDED
SCALE AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-13



BIRCH STREET



CHESTNUT AVENUE

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2/12/62	As Built	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

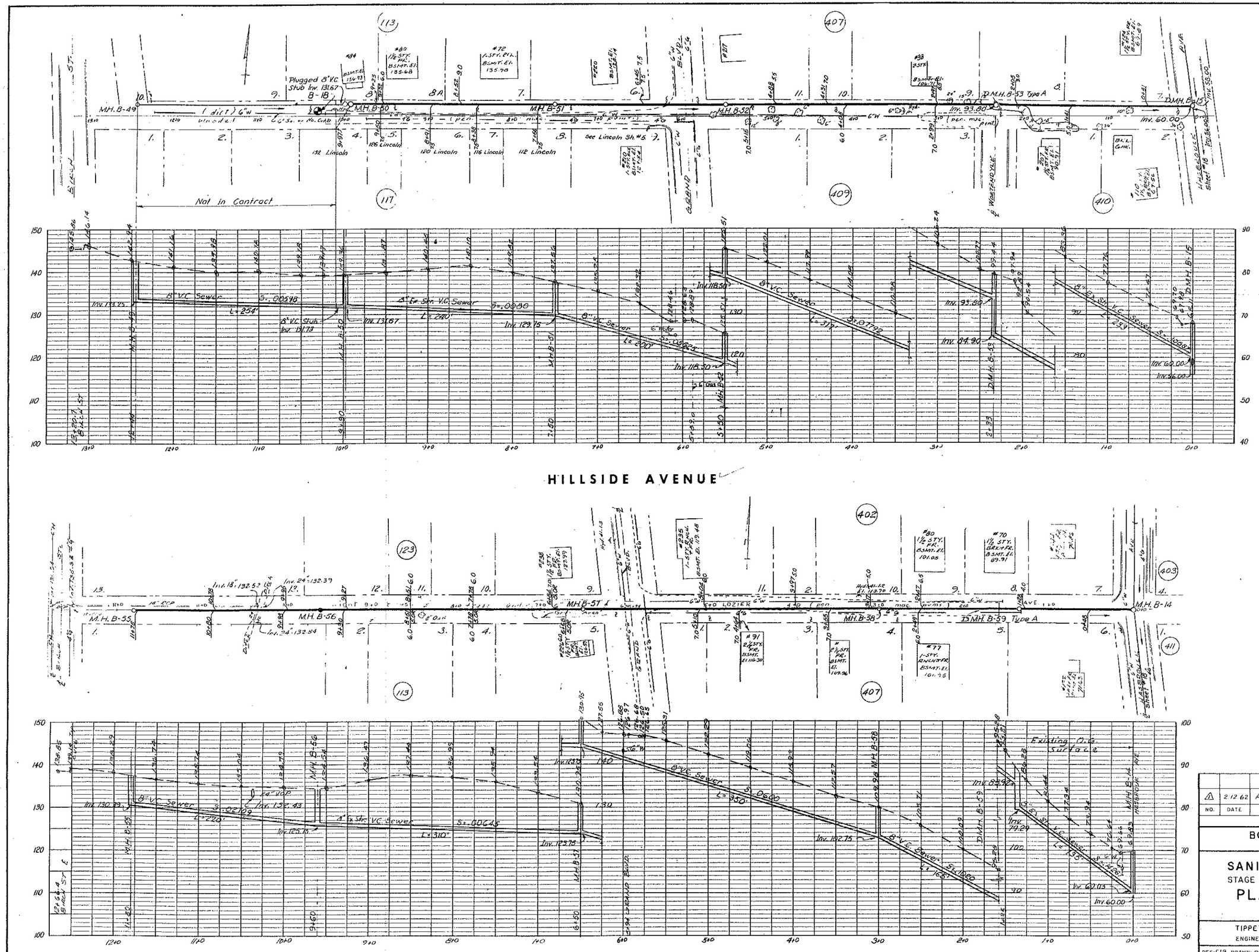
SANITARY SEWER SYSTEM

STAGE ONE - NORTHWESTERLY SECTION

PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GWU DRAWN: GRA CHECKED: DIC RECOMMENDED:	SCALE: AS SHOWN	DATE: AUG. 11, 1960	DRAWING NO.
	SUBMITTED:		990-14



TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2.12.62	As Built	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

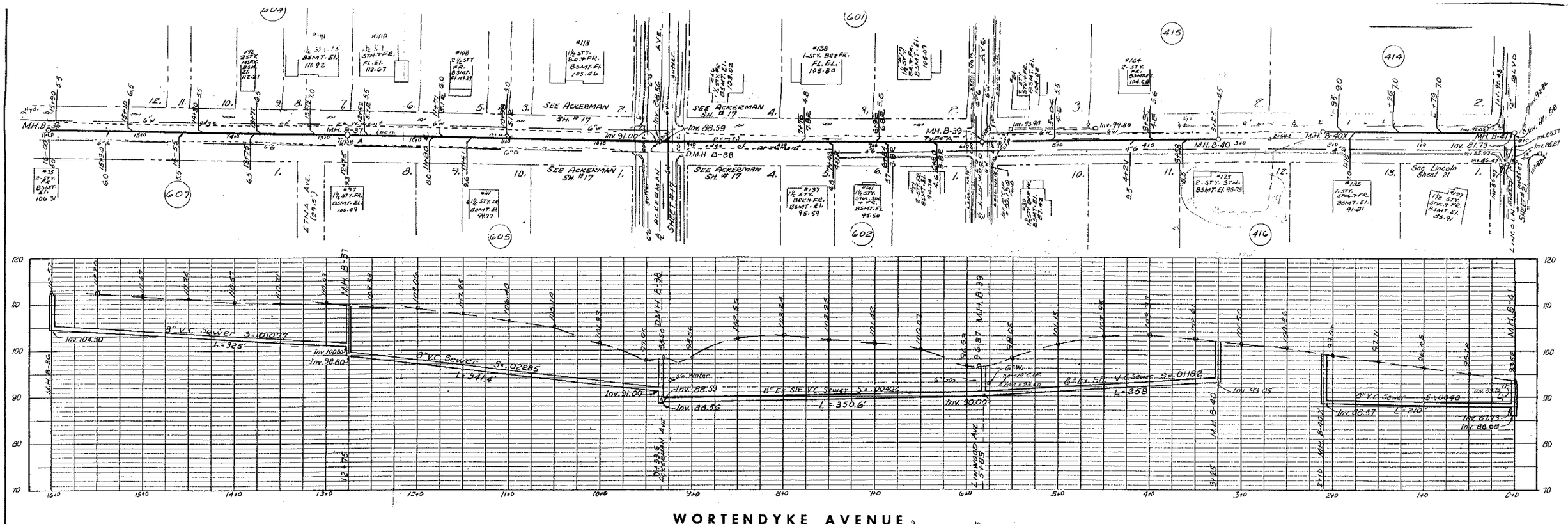
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

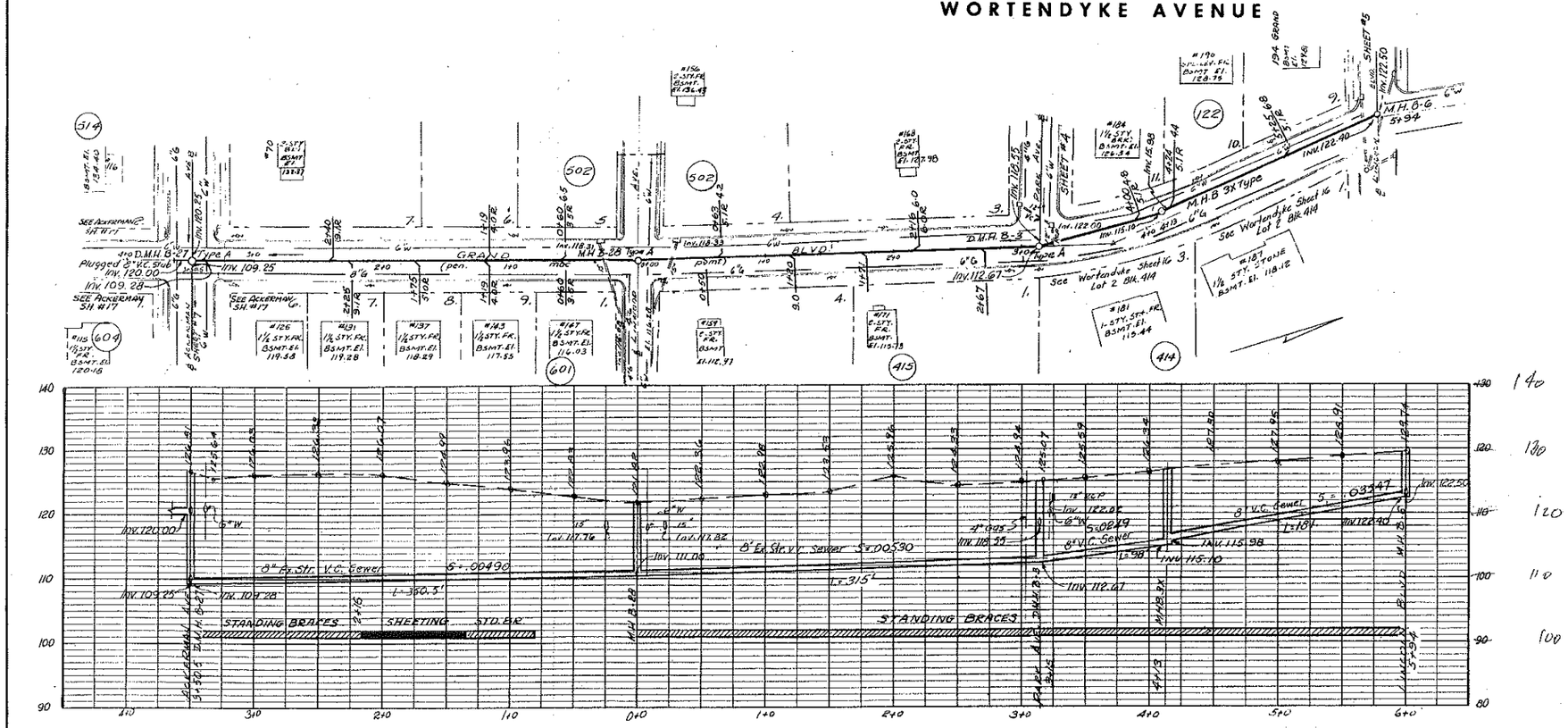
TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: EJB DRAWN: OB
CHECKED DIG.
RECOMMENDED: H. W. Blake

SCALE: AS SHOWN
DATE: AUG 11, 1960
SUBMITTED: Edward K. Burgess PRINCIPAL

DRAWING NO. 990-15





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY

NO.	DATE	REMARKS
2	2-12-62	As Built
1	9-6-61	Wortendyke Ave Sewer Lowered - Sta. 0+00 to Sta. 2+10

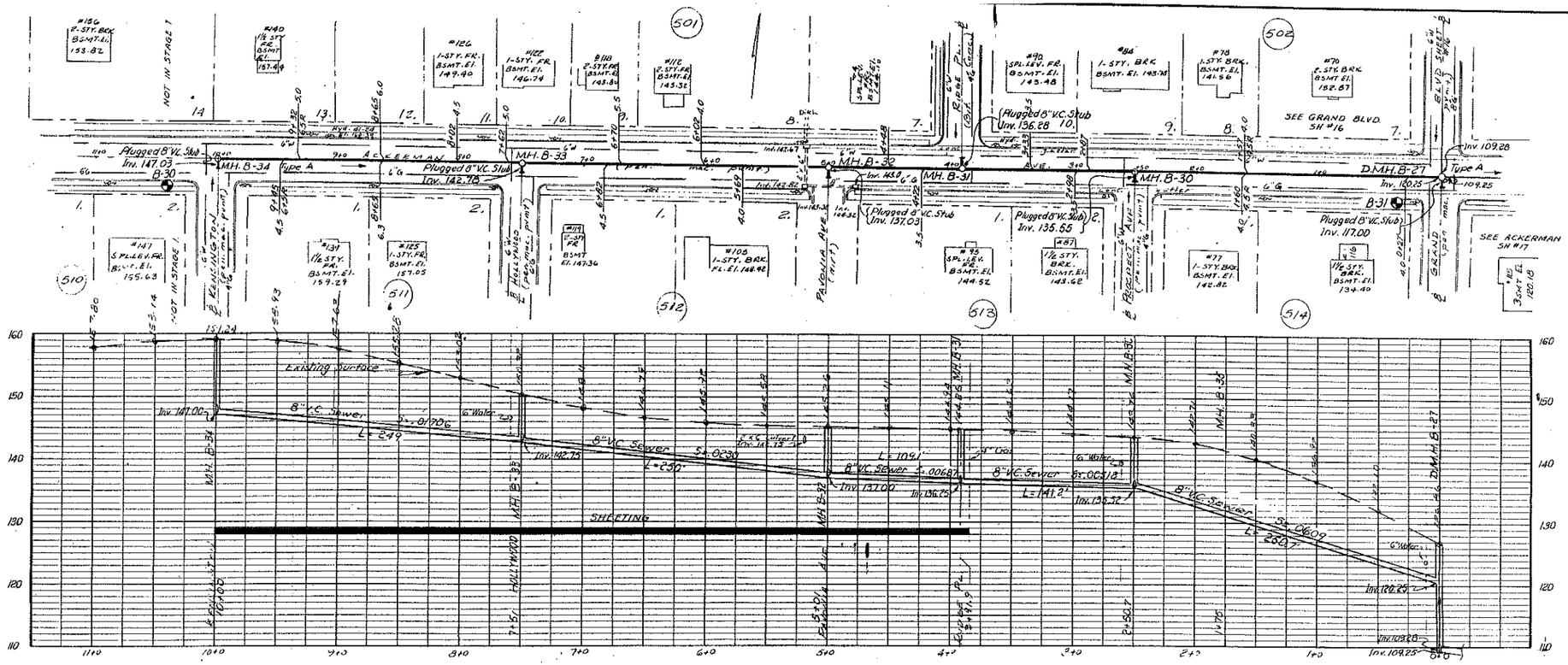
REVISIONS

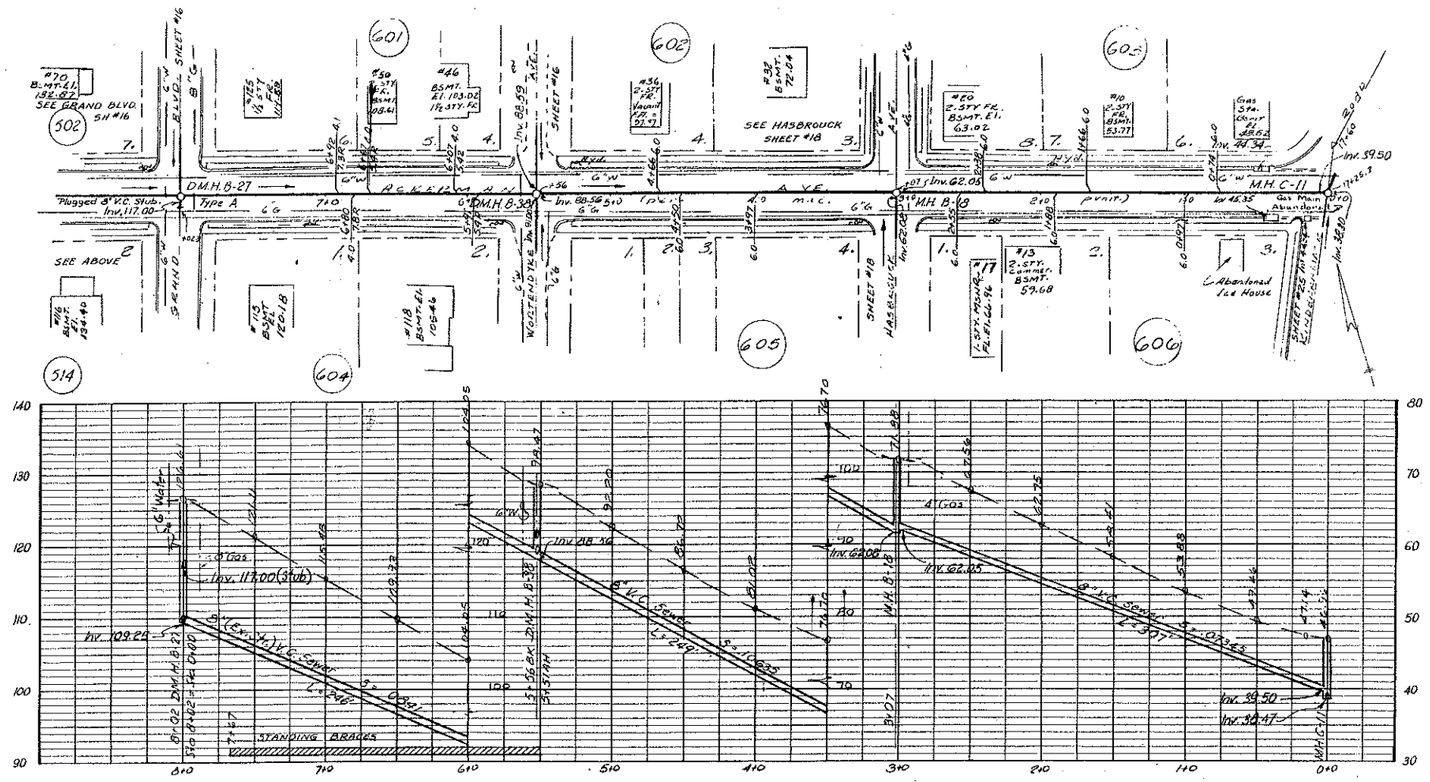
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: EJB DRAWN: OG CHECKED DJC RECOMMENDED:
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-16





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2/12/62	As Built	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

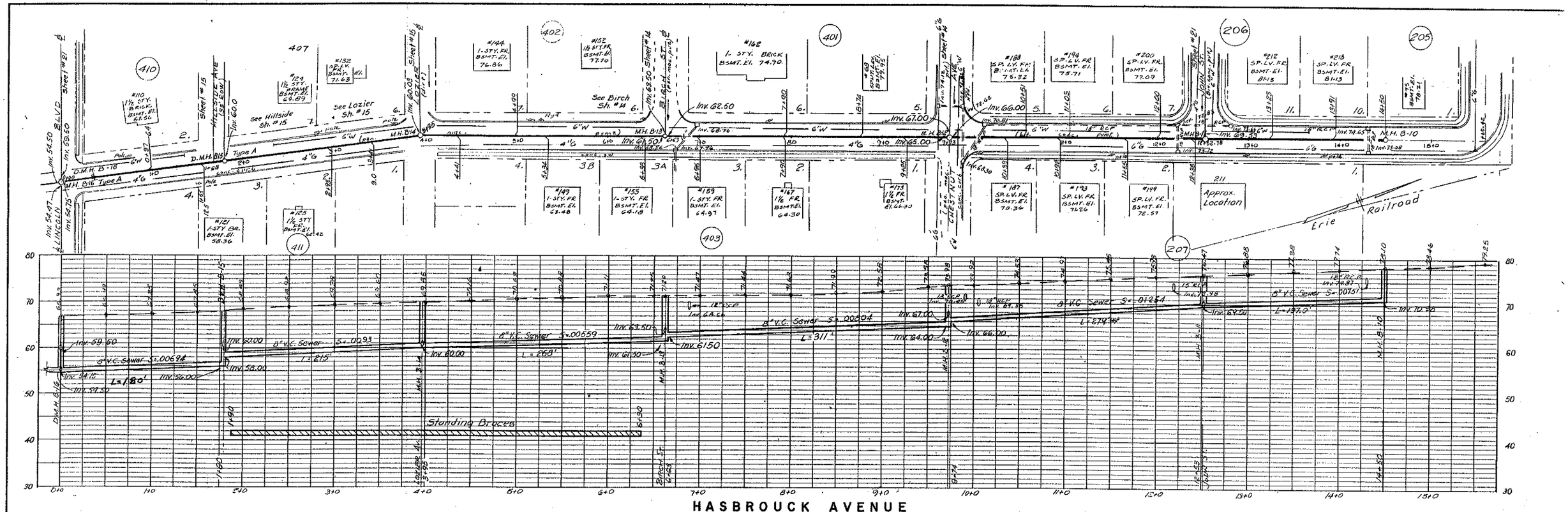
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

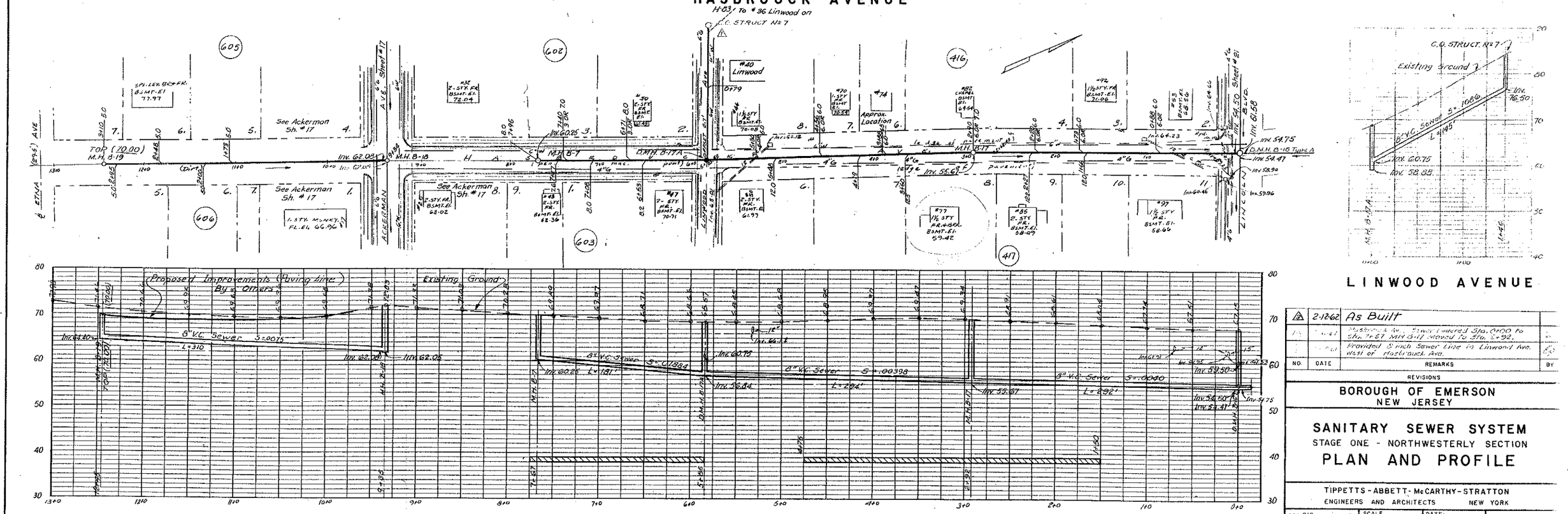
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: E.J.B. DRAWN: O.G.
CHECKED: D.J.C.
RECOMMENDED: W. W. Black

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Burgess

DRAWING NO. 990-17





NO.	DATE	REMARKS	BY
2	2-12-62	As Built	
1	[illegible]	Hasbrouck Ave. Sewer Lowered Sta. 0+00 to Sta. 7+57, M.H. B-17 Moved To Sta. 5+92.	[illegible]
	[illegible]	Provided 8 inch Sewer Line To Linwood Ave. West of Hasbrouck Ave.	[illegible]

REVISIONS

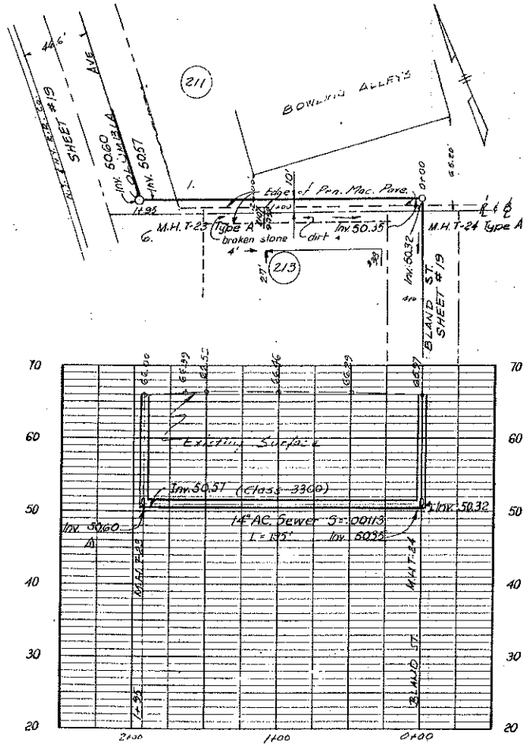
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

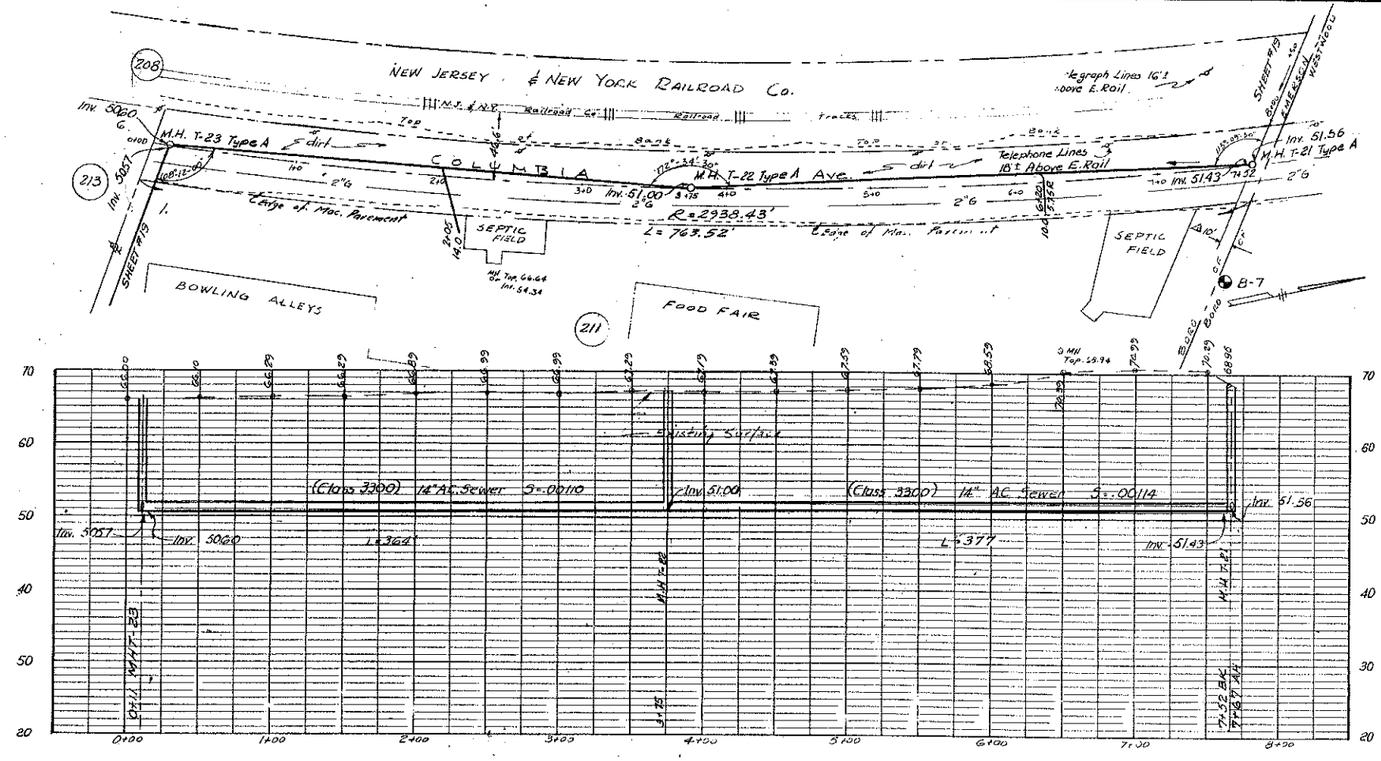
TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: EJD DRAWN: GRA CHECKED: DJC RECOMMENDED	SCALE: AS SHOWN	DATE: AUG. 11, 1960	DRAWING NO.
	SUBMITTED		990-18

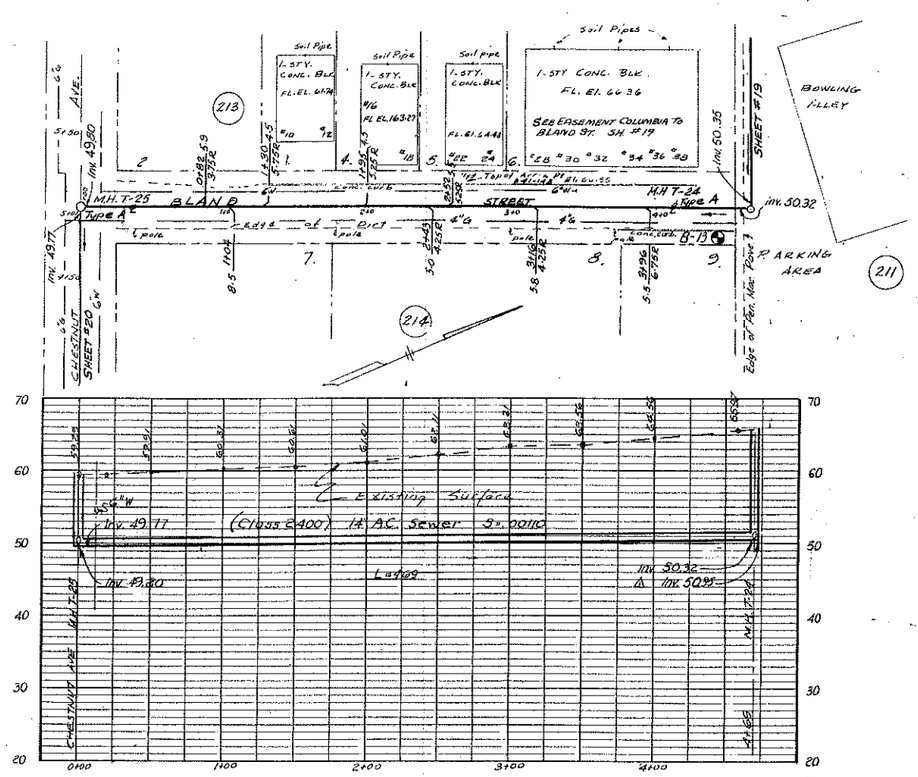
TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY



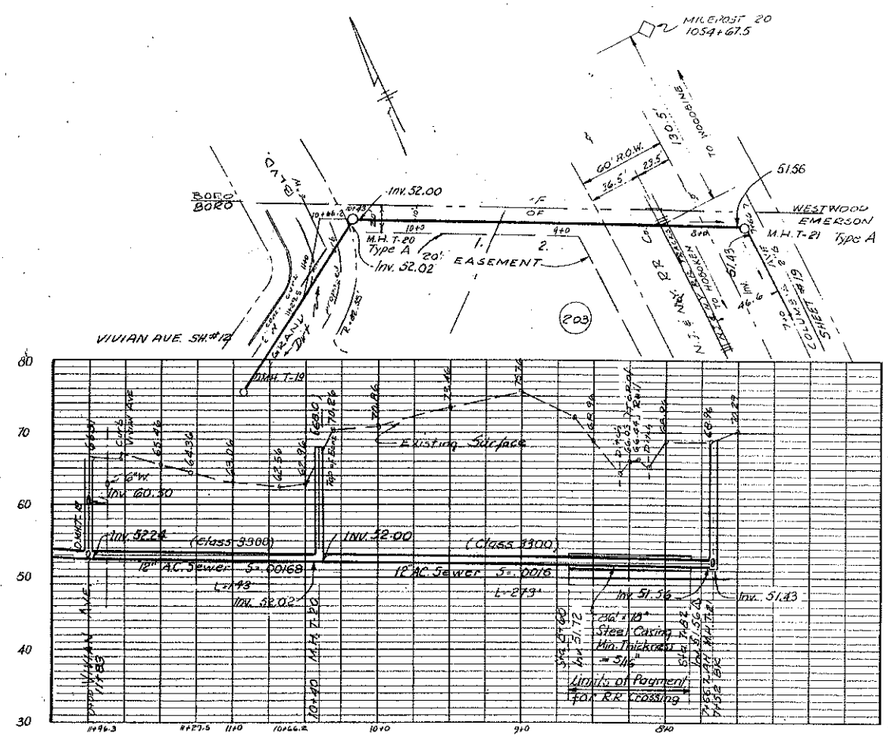
COLUMBIA AVE. TO BLAND ST.



COLUMBIA AVENUE



BLAND STREET



EASEMENT
GRAND BLVD. TO COLUMBIA AVE.

RAILROAD CROSSING

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	SEWAGE	---
DIAMETER – INSIDE AND OUTSIDE	(12 IN. I.D.) (14.66 IN. O.D. Coupling)	17.375 IN. I.D. 18 IN. (O.D.)
MATERIAL AND TYPE OF PIPE	ASBESTOS CEMENT	STEEL
SPECIFICATION AND GRADE	CLASS 3300	ASTM: A 134-54 GRADE A
WEIGHT PER LIN FT.	28.8 LBS.	59 LBS.
ACTUAL WORKING PRESSURE	---	---
TEST PRESSURE	---	---
TYPE OF JOINT	ASTM: C 428-59T	WELDED
COATING	---	TAR & WRAPPING
METHOD OF INSTALLATION	SKIDS or CONT. TIMBER CRADLE.	JACKING-BORING

PROTECTION AT ENDS OF CASING: BOTH ENDS
TYPE: JOHNS MANVILLE DUXSEAL
BURY: BASE OF RAIL TO TOP OF CASING 12'9" △
CATHODIC PROTECTION: NONE

NO.	DATE	REMARKS	BY
△	2-12-62	As Built	
△	5/25/61	Raised 12" & 14" Trunk Sewer, Added 10' dimension. Added exist. Teleph. & Teleg. lines along R.R.	

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

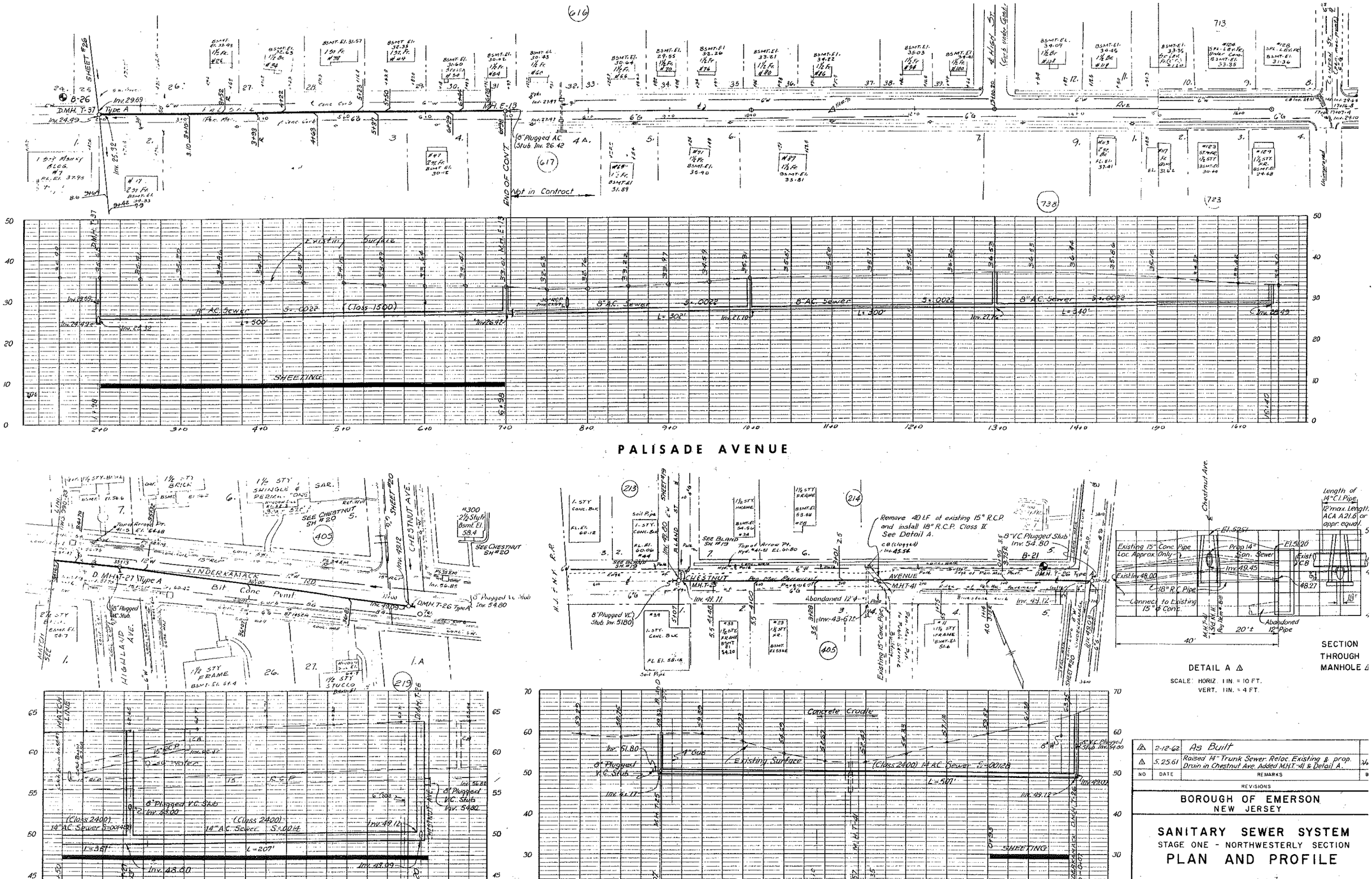
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES GWU DRAWN. GRA
CHECKED DJC
RECOMMENDED
H. W. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-19

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY



NO	DATE	REMARKS
2	2-12-62	As Built
1	5.25.61	Raised 14" Trunk Sewer. Reloc. Existing & prop. Drain in Chestnut Ave. Added M.H.T.-41 & Detail A.

REVISIONS

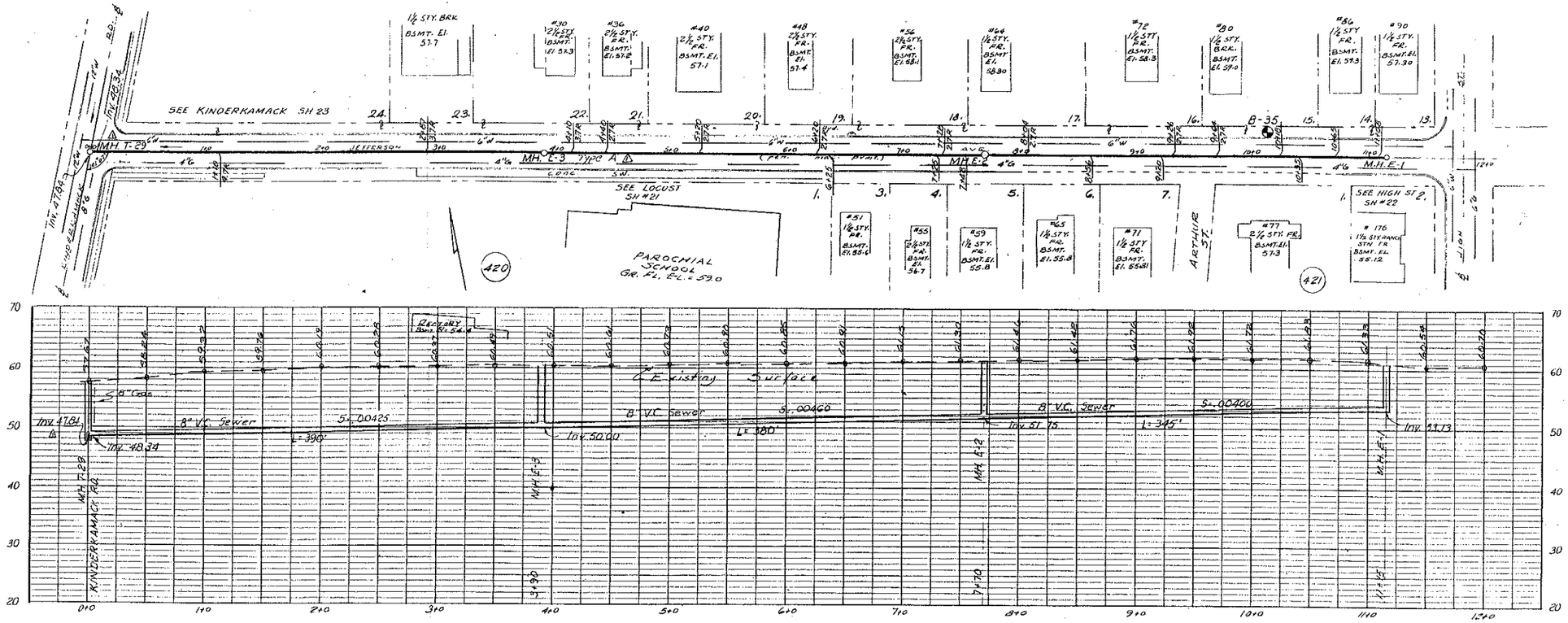
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

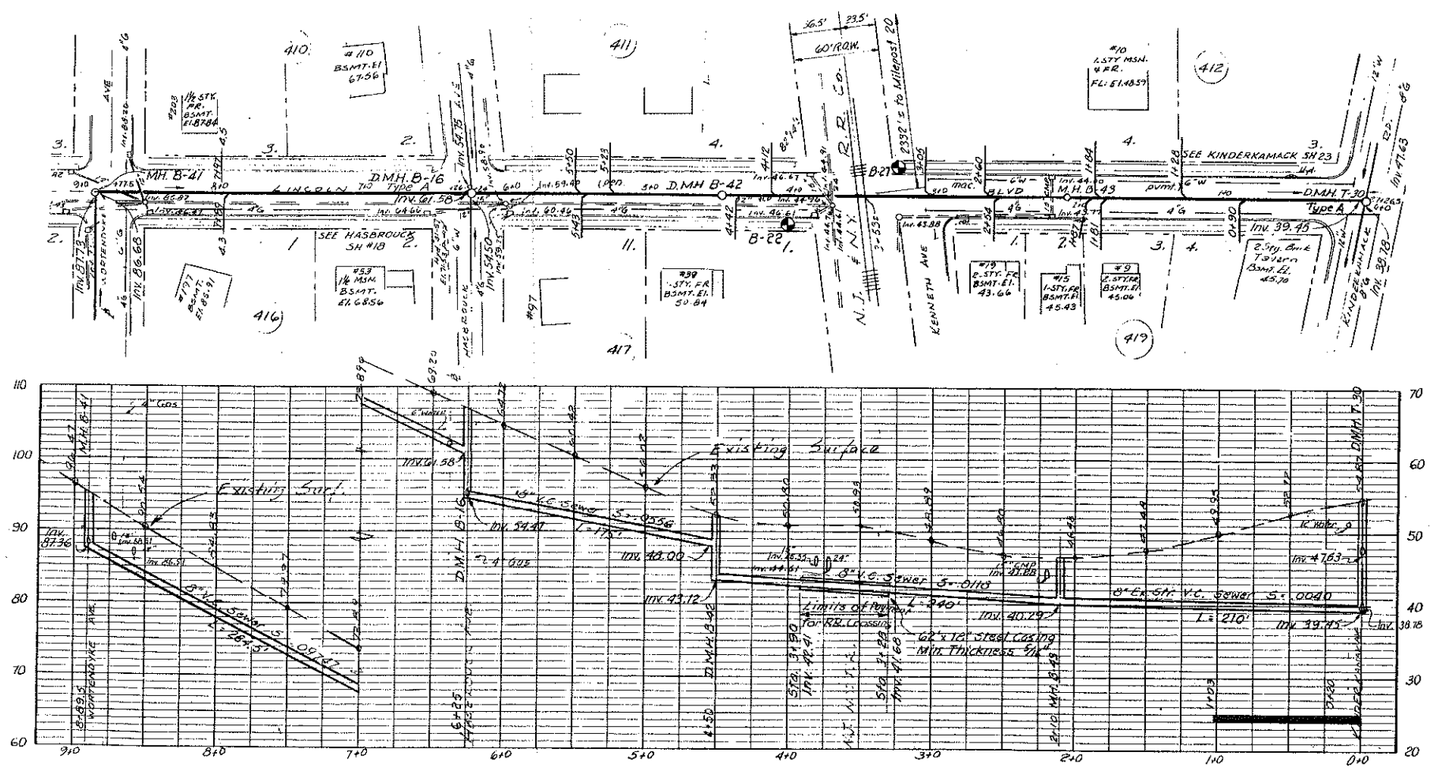
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES GRU DRAWN: OG
CHECKED DIC.
RECOMMENDED H. W. Blake
SCALE AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED Edward K Bryant
DRAWING NO. 990-20

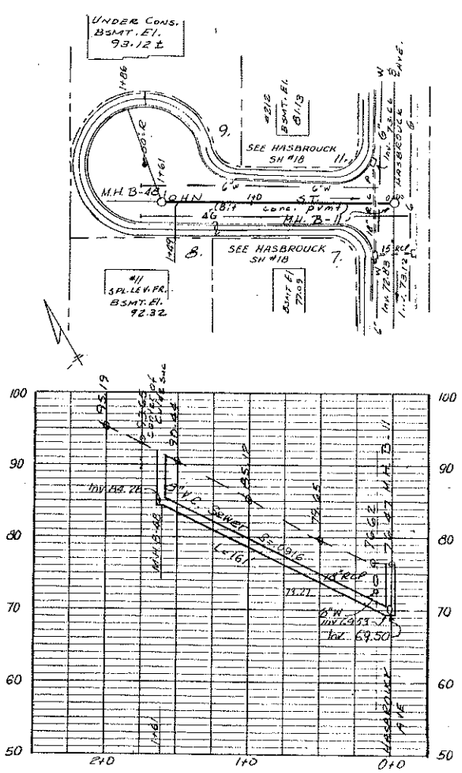
TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY



JEFFERSON AVENUE



LINCOLN BOULEVARD



JOHN STREET

RAILROAD CROSSING

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	SEWAGE	- - -
DIAMETER – INSIDE AND OUTSIDE	(10 IN. I.D.) (14.5 IN. O.D. BELL)	17.376 IN. I.D. 18 IN. (O.D.)
MATERIAL AND TYPE OF PIPE	VIT. CLAY	STEEL
SPECIFICATION AND GRADE	STANDARD STRENGTH	ASTM: A134-54 GRADE A
WEIGHT PER LIN FT.	34 LBS.	59 LBS.
ACTUAL WORKING PRESSURE	- - -	- - -
TEST PRESSURE	- - -	- - -
TYPE OF JOINT	ASTM: C 425	WELDED
COATING	- - -	TAR & WRAPPING
METHOD OF INSTALLATION	SKIDS or CONT. TIMBER CRADLE	JACKING-BORING

PROTECTION AT ENDS OF CASING: BOTH ENDS
TYPE: JOHNS MANVILLE DUXSEAL
BURY: BASE OF RAIL TO TOP OF CASING 7 FT. 9 IN.
CATHODIC PROTECTION: NONE

NO	DATE	REMARKS	BY
2	2-12-62	As Built	
1	5-25-61	Raised 14" Sewer in Kind'mk Rd. & 8" Sewer in Jefferson Av.	

REVISIONS

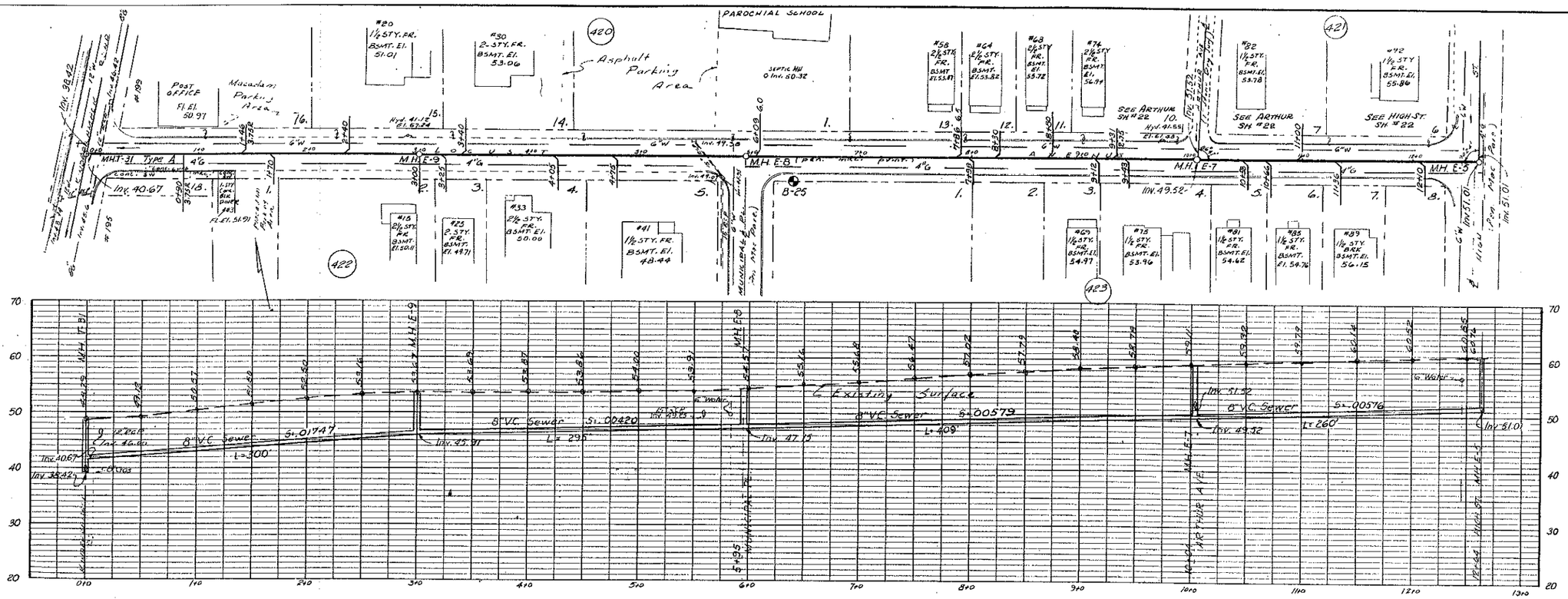
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

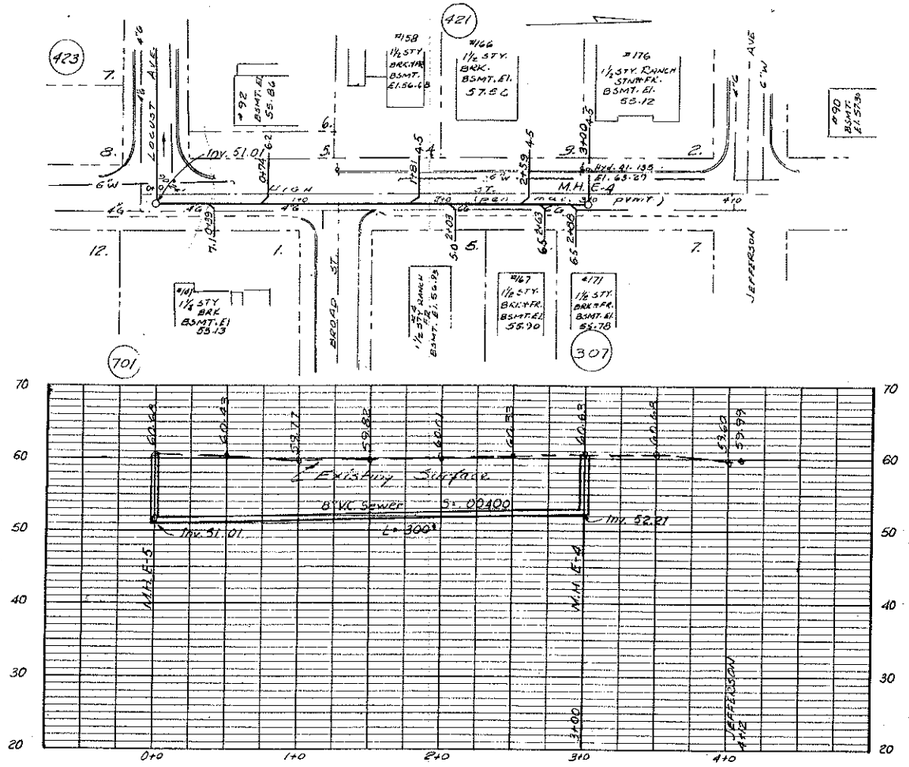
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES EIB DRAWN OG
CHECKED DJC
RECOMMENDED: H. W. Blake
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-21

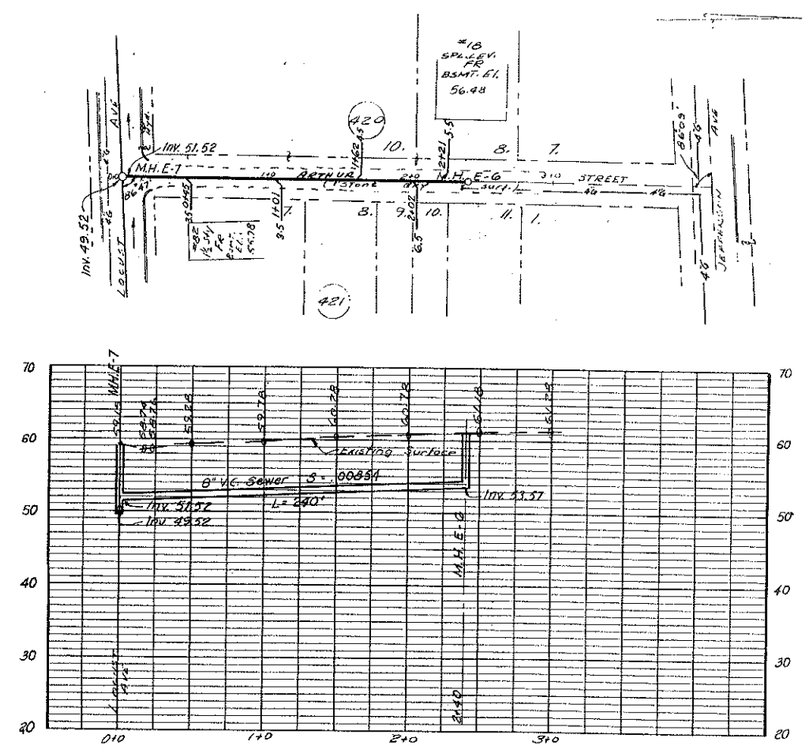
TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY



LOCUST AVENUE



HIGH STREET



ARTHUR STREET

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
1	2-12-62	As Built	

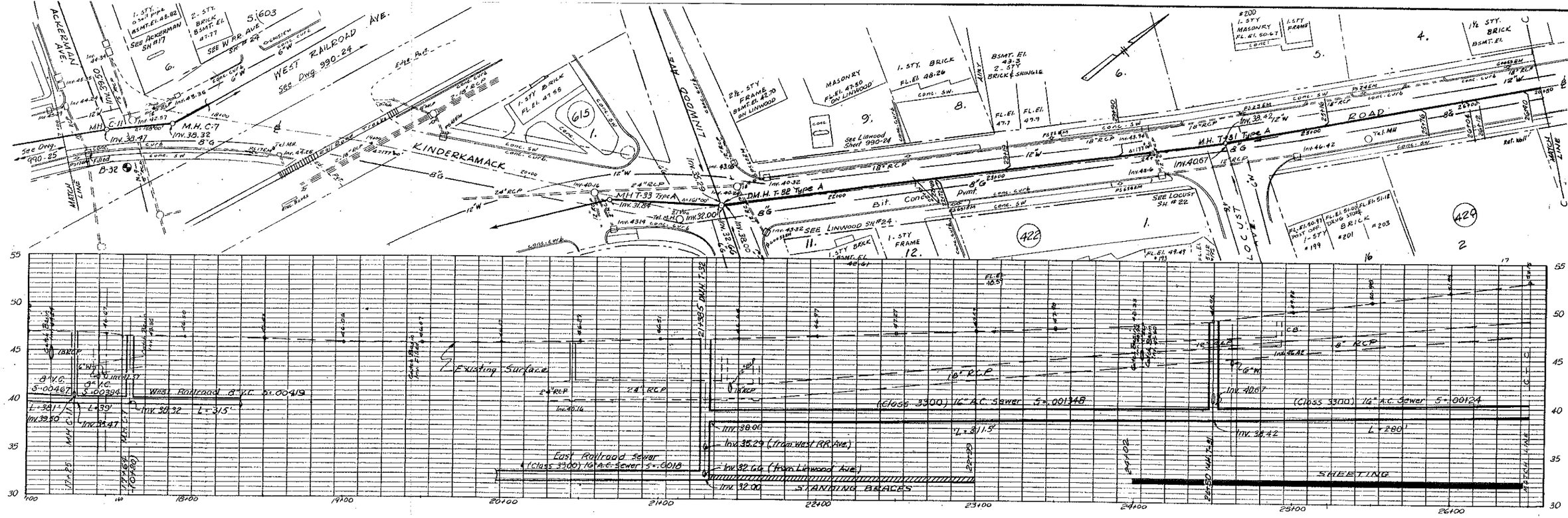
REVISIONS

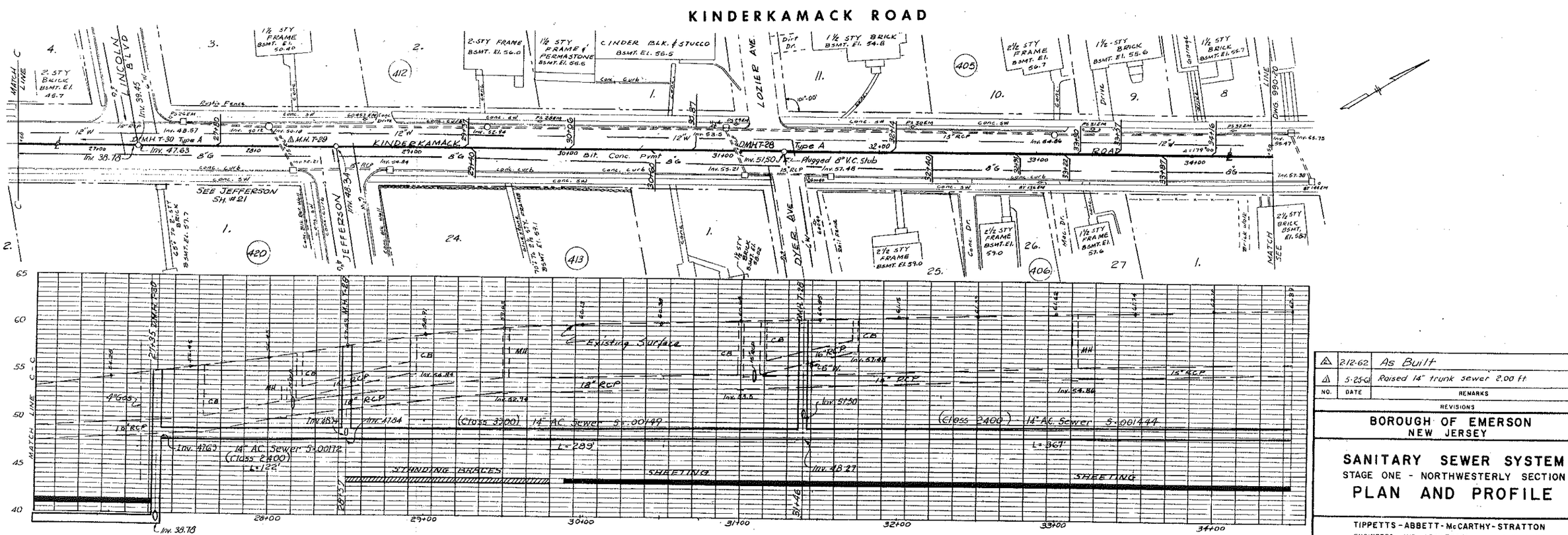
BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GWU DRAWN: OG
CHECKED: DJC
RECOMMENDED
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED
DRAWING NO. 990-22





TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS	BY
2	2-12-62	As Built	
1	5-25-61	Raised 14" trunk sewer 2.00 ft	GWB

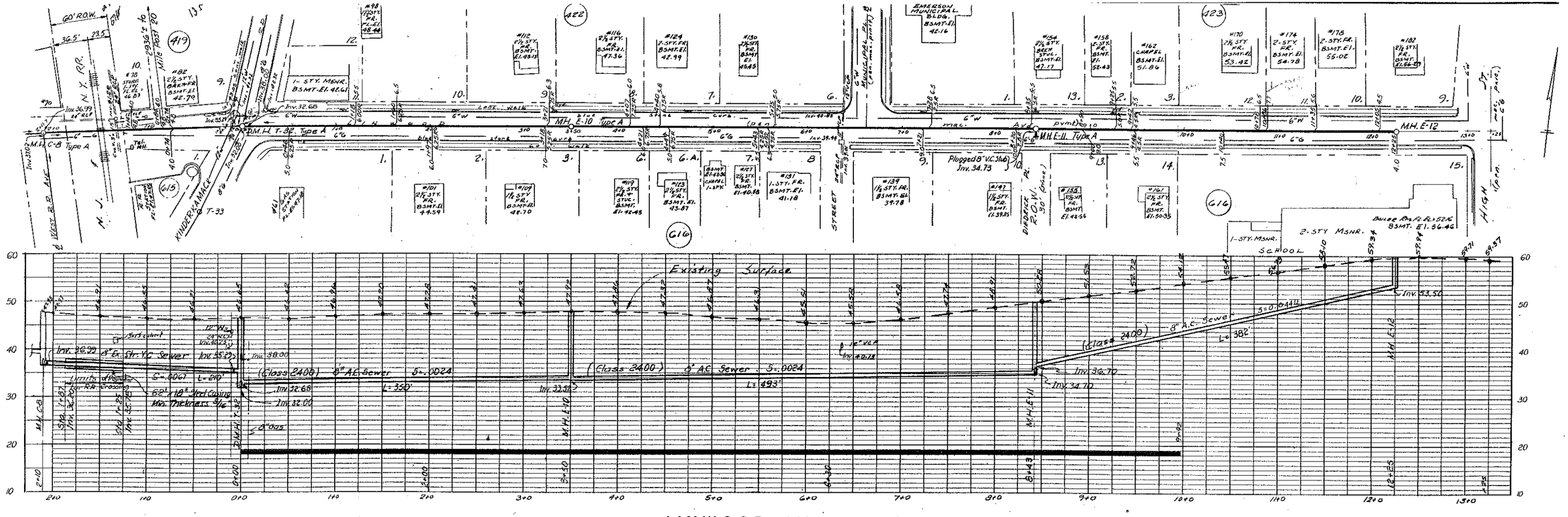
REVISIONS

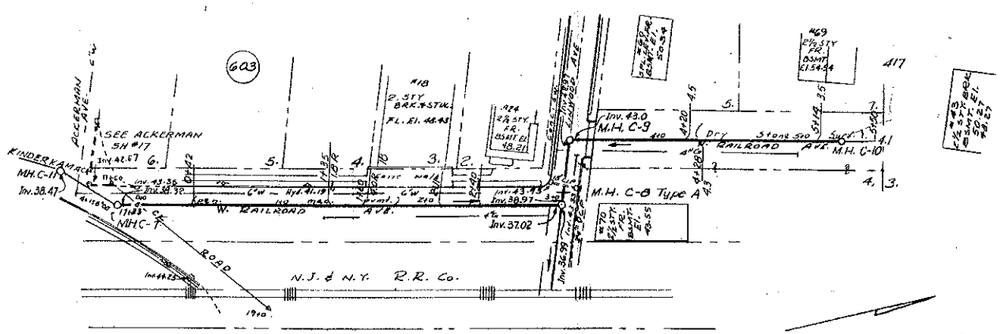
BOROUGH OF EMERSON
NEW JERSEY

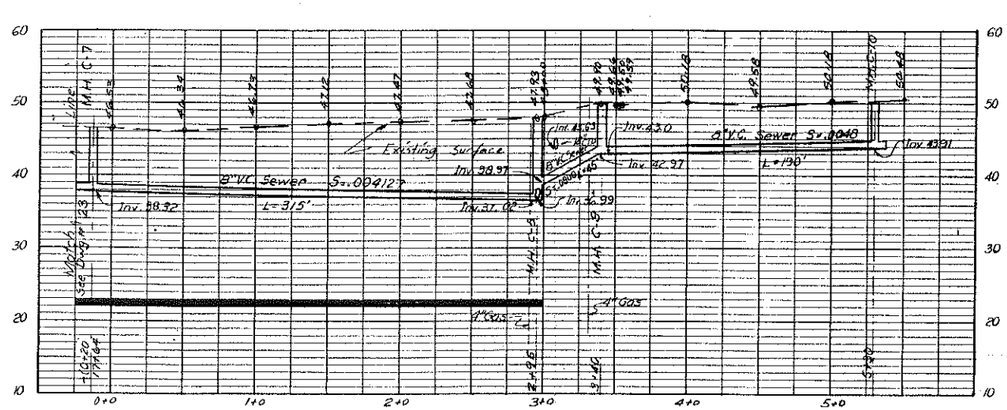
SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

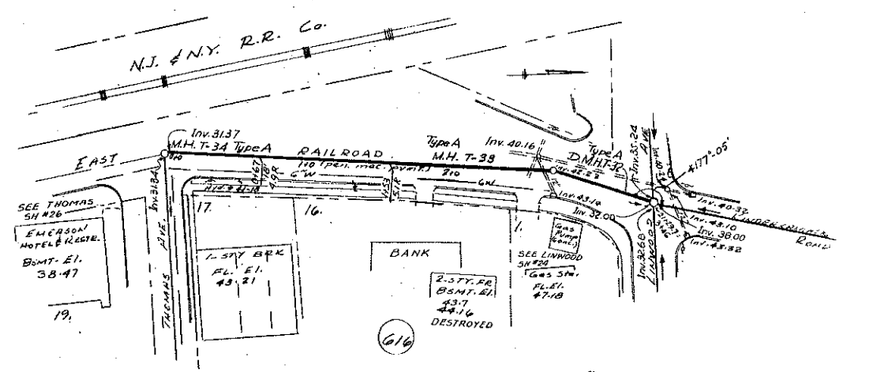
DES: GWU DRAWN: GRA
CHECKED: DJC
RECOMMENDED: H. W. Blake
SCALE: AS SHOWN
DATE: AUG 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING NO. 990-23

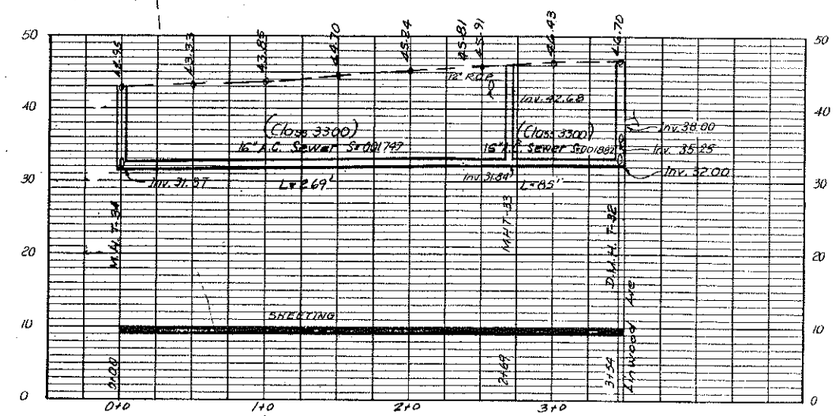






WEST R.R. AVENUE





EAST R.R. AVENUE

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

RAILROAD CROSSING

	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	SEWAGE	---
DIAMETER – INSIDE AND OUTSIDE	(8 IN. I.D.) (12 IN. O.D. BELL)	17.375 IN. I.D. 18 IN. O.D
MATERIAL AND TYPE OF PIPE	VIT. CLAY	STEEL
SPECIFICATION AND GRADE	STANDARD STRENGTH	ASTM: A 134-54 GRADE A
WEIGHT PER LIN FT.	25 LBS.	59 LBS.
ACTUAL WORKING PRESSURE	---	---
TEST PRESSURE	---	---
TYPE OF JOINT	ASTM: C 425	WELDED
COATING	---	TAR & WRAPPING
METHOD OF INSTALLATION	SKIDS or CONT TIMBER CRADLE	JACKING-BORING

PROTECTION AT ENDS OF CASING: BOTH ENDS
TYPE: JOHNS MANVILLE DUXSEAL
BURY: BASE OF RAIL TO TOP OF CASING 9 FT. 5 IN.
CATHODIC PROTECTION: NONE

NO.	DATE	REMARKS
1	2-12-62	As Built

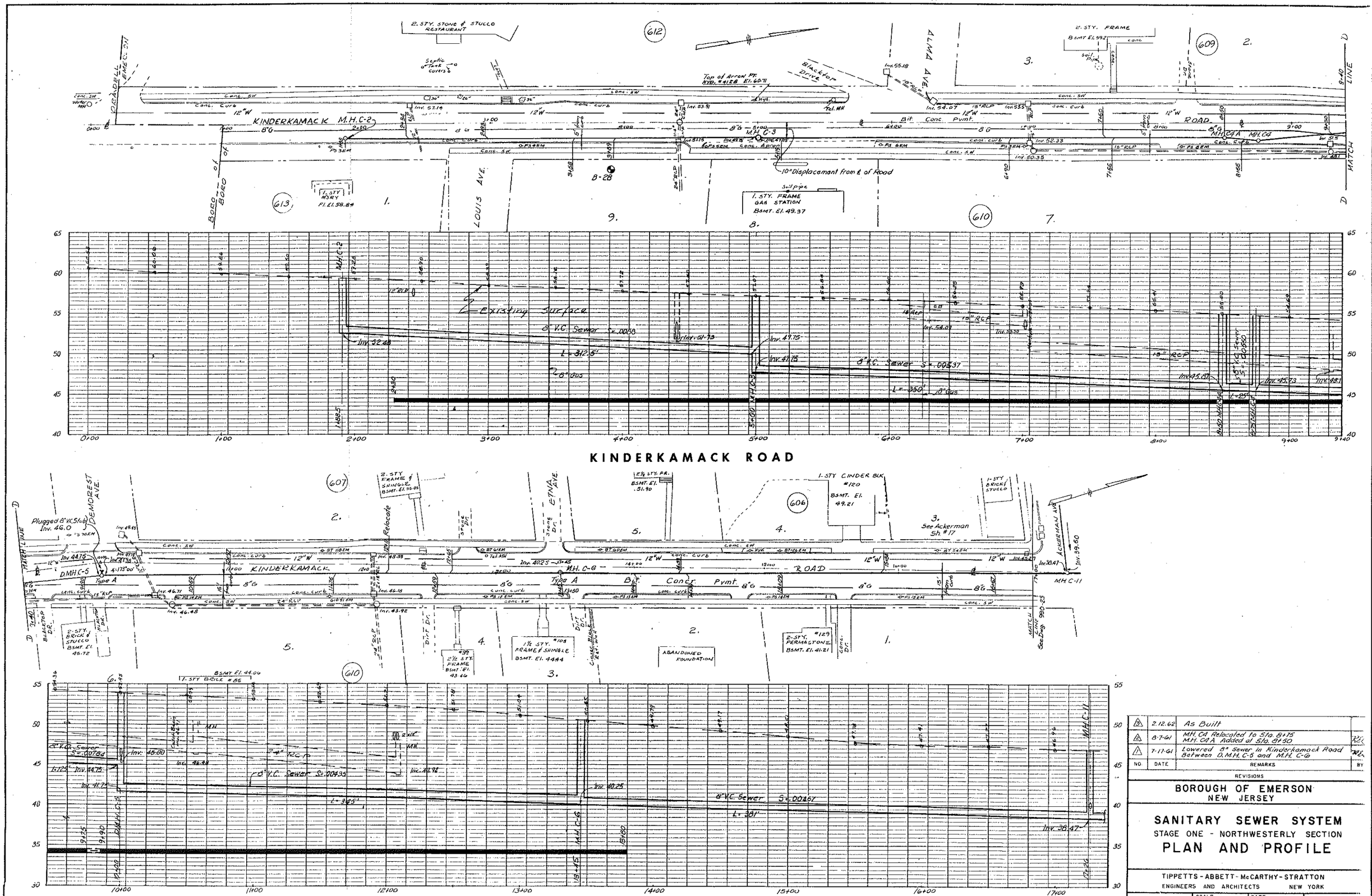
REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM
STAGE ONE - NORTHWESTERLY SECTION
PLAN AND PROFILE

TIPPETTS-ABBETT-McCARTHY-STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES: GWU DRAWN: GRA CHECKED: DIC RECOMMENDED:	SCALE: AS SHOWN	DATE: AUG. 11, 1960	DRAWING NO.
	SUBMITTED: Edward K. Burnett		990-24



NO.	DATE	REMARKS	BY
3	2.12.62	As Built	
2	8-7-61	MH. C4 Relocated to Sta. 8+75 MH. C4A Added at Sta. 8+50	RJL
1	7-17-61	Lowered 8" Sewer in Kinderkamack Road Between D.MH.C-5 and M.H. C-6	RJL

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

SANITARY SEWER SYSTEM

STAGE ONE - NORTHWESTERLY SECTION

PLAN AND PROFILE

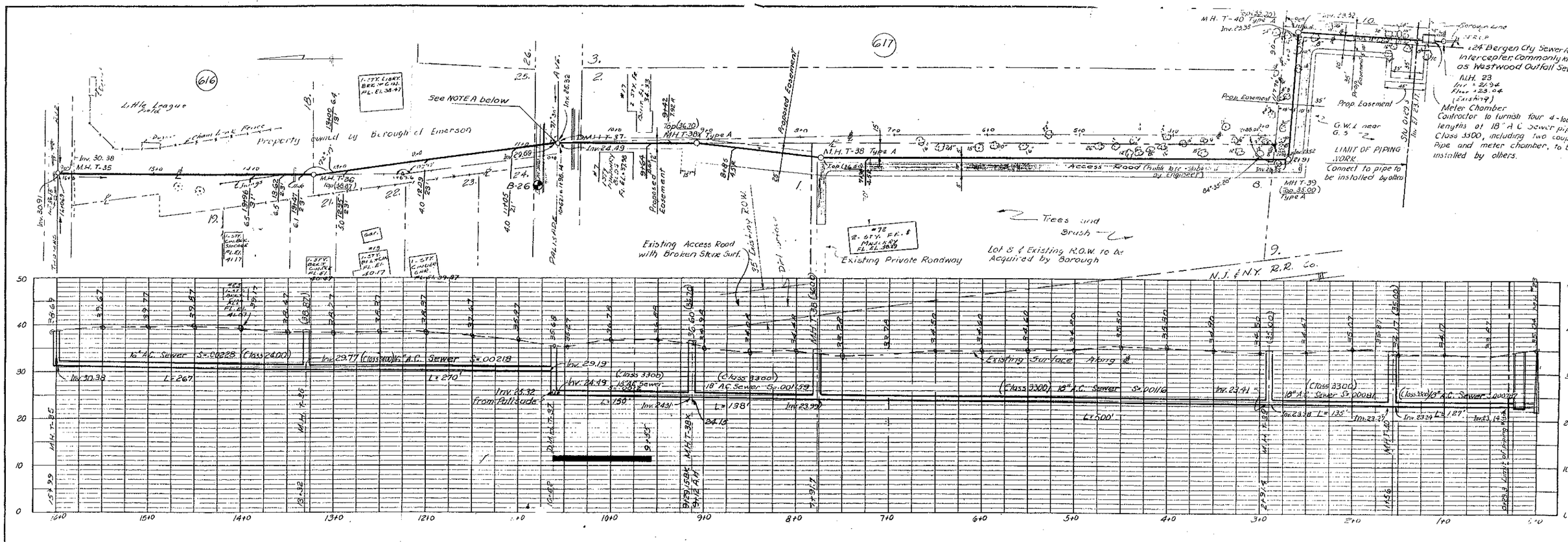
TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GWV DRAWN: OG
CHECKED: DJC
RECOMMENDED: H. W. Blake

SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant

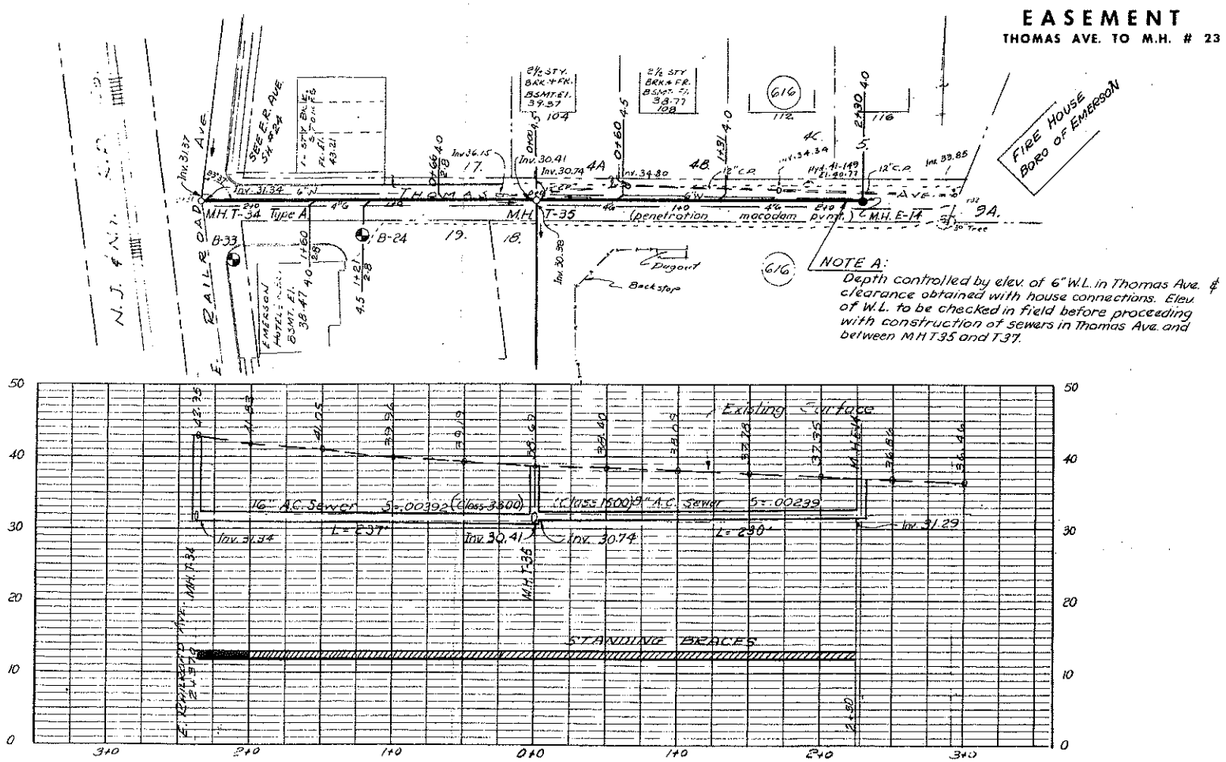
DRAWING NO. 990-2

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

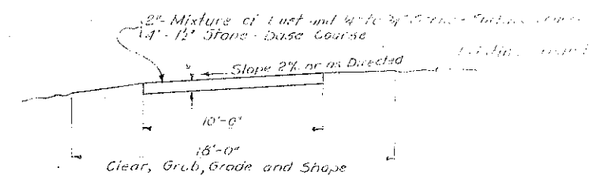


EASEMENT

THOMAS AVE. TO M.H. # 23



THOMAS AVENUE



TYPICAL CROSS SECTION FOR ACCESS ROAD

SCALE 1"=5'

TOPOGRAPHIC SURVEY BY
BOSWELL ENGINEERING COMPANY
RIDGEFIELD PARK, NEW JERSEY

NO.	DATE	REMARKS
△	2-12-62	As Built

REVISIONS

BOROUGH OF EMERSON
NEW JERSEY

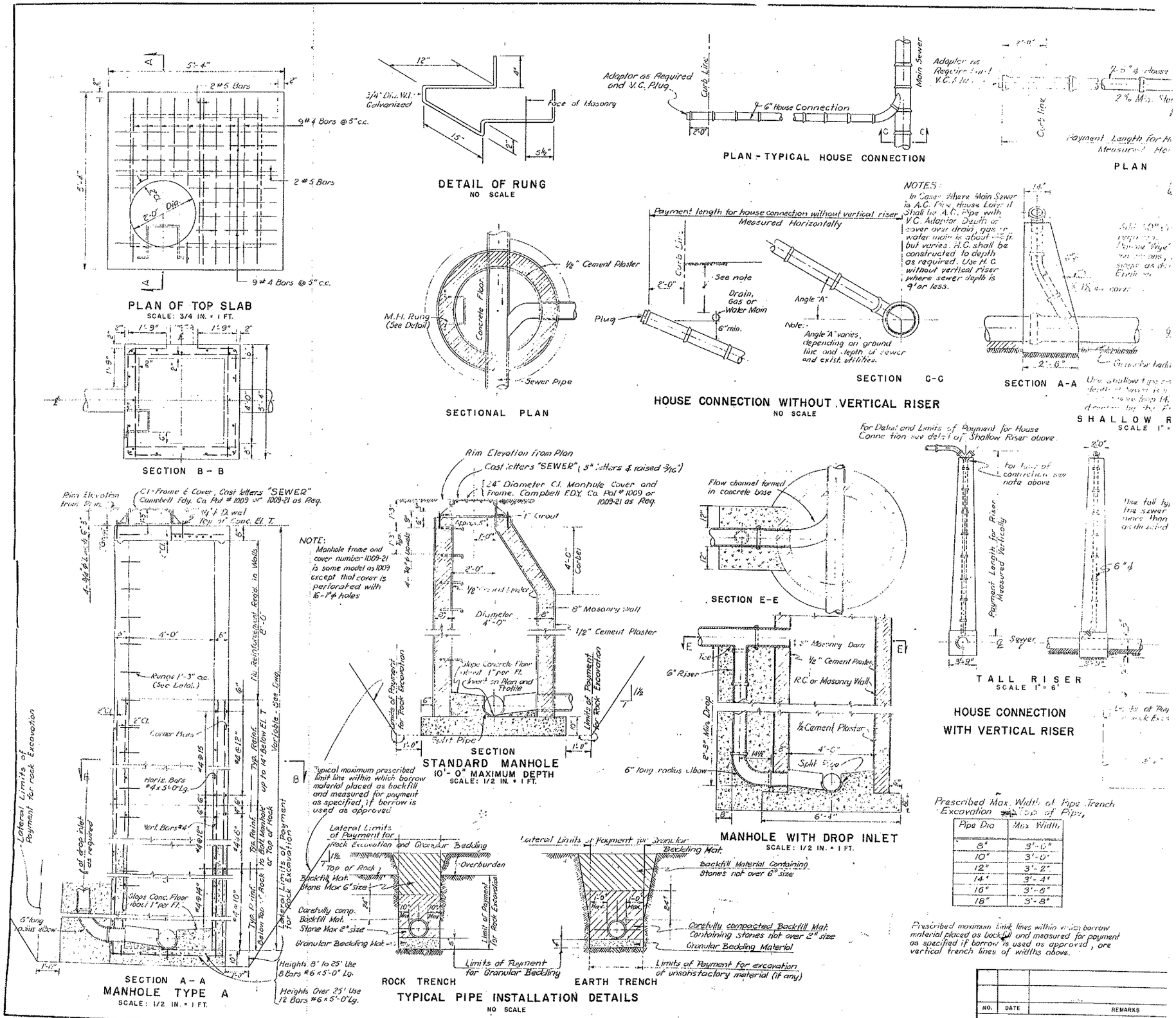
SANITARY SEWER SYSTEM

STAGE ONE - NORTHWESTERLY SECTION

PLAN AND PROFILE

TIPPETTS - ABBETT - McCARTHY - STRATTON
ENGINEERS AND ARCHITECTS NEW YORK

DES. GWU DRAWN: GRA
CHECKED TJC
RECOMMENDED: W. W. Blake
SCALE: AS SHOWN
DATE: AUG. 11, 1960
SUBMITTED: Edward K. Bryant
DRAWING 990



Pipe Dia	Max Width
8"	3'-0"
10"	3'-0"
12"	3'-2"
14"	3'-4"
16"	3'-6"
18"	3'-8"