HUD PROJECT NO. WS-NY-426
(P-NY-3932)

CONTRACT DRAWINGS
(AS BUILT)
VILLAGE OF NORTH HORNELL, NEW YORK

WPC-NY-576

CONTRACT 1

SANITARY SEWER CONSTRUCTION

1969

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24.	8" SEWER ELMWOOD AVE.
25.	8" SEWER FIRST ST
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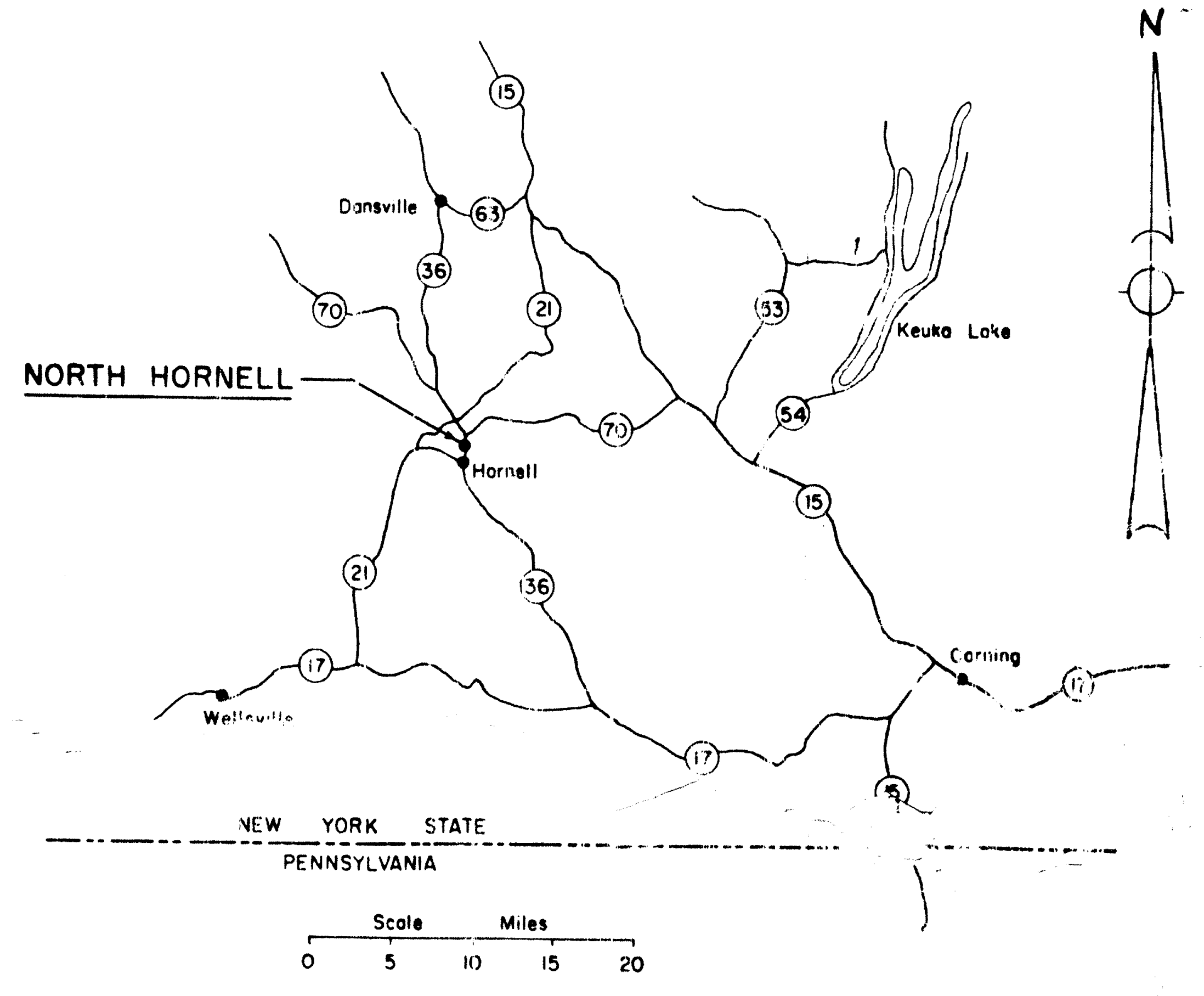
28.	MANHOLE & TRENCHING DETAILS - 16" SEWER & SMALLER
29.	PUMPING STATION DETAILS.

FILE 531

MAYOR — ROWLAND E. SAUNDERS
TRUSTEES — JOSEPH A. ADAMONIS
ROY E. GRAHAM
LLEWELLYN STROBEL
DELMONT VAN OXX
ATTORNEY — NICHOLAS J. CHANGOSE
TREASURER — MATEAL H. BENJAMIN
CLERK — GEORGE J. HOUSE

LEGEND

—○—	PROPOSED SAN SEWER AND SEWER LATERAL	○	TREE
—S—	EXISTING SANITARY SEWER	✱	BUSHES OR SHRUBS
—D—	EXISTING STORM DRAIN	— -- — PE	PERMANENT EASEMENT
—G—	GAS LINE	— - - - TE	TEMPORARY EASEMENT
—○—	MANHOLE	— ℞ - - —	APPARENT PROPERTY LINE
—⊗— WV	EXISTING WATER VALVE	ST. DR.	STONE DRIVE
—W—	EXISTING WATER MAIN	GR. DR.	GRAVEL DRIVE
—⊗— WS	WATER SERVICE	■	MAIL BOX
—⊗— GV	GAS VALVE	□	GUARD POST
—⊗— GS	GAS SERVICE	⊠	CONC. MONUMENT
—⊓—	CATCH BASIN OR DROP INLET	A/C	ASBESTOS-CEMENT PIPE
♆	HYDRANT	△ "A"	SURVEY POINTS
⊕	SOIL BORING (TH OR AH)	- - - 902 - - -	EXISTING CONTOURS
BSMT.	BASEMENT	— 902 —	PROPOSED CONTOURS
ø	UTILITY POLE	⇑ S	EXISTING HOUSE SEWER
ø	TELEVISION CABLE POLE	B.T.	BLACK TOP PAV'T
— — — →	UNDERGROUND CABLE	R.C.P.	REINFORCED CONCRETE PIPE
S.O.G.	SLAB ON GRADE	♎	SIGN
—x—x—	FENCE LINE		



LOCATION PLAN

NOTE:

1. INFORMATION CONCERNING BORINGS IS ISSUED ONLY AS A REFERENCE FOR BIDDERS. BORING LOCATIONS ARE SHOWN THUS, ⊕. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT THE CHARACTER OF MATERIAL HAS BEEN CORRECTLY INDICATED AND BIDDERS SHOULD TAKE INTO ACCOUNT THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST OR QUANTITIES OF WORK TO BE DONE MAY DIFFER FROM THOSE INDICATED. REFER TO ORIGINAL SOIL BORING DATA APPENDED TO THE SPECIFICATIONS. BORINGS DONE BY ROCHESTER DRILLING COMPANY, ROCHESTER, NEW YORK.
2. ALL ELEVATIONS REFER TO U.S.G.S. DATUM.
3. INVERT ELEVATIONS SHOWN ARE OF PIPE INVERT EXTENDED TO CENTERLINE OF MANHOLE AND WERE COMPUTED USING DISTANCE BETWEEN CENTERLINE OF MANHOLES AND GRADE SHOWN. SLOPE CHANNEL BOTTOM BETWEEN ENDS OF PIPE AT MANHOLE WALLS.

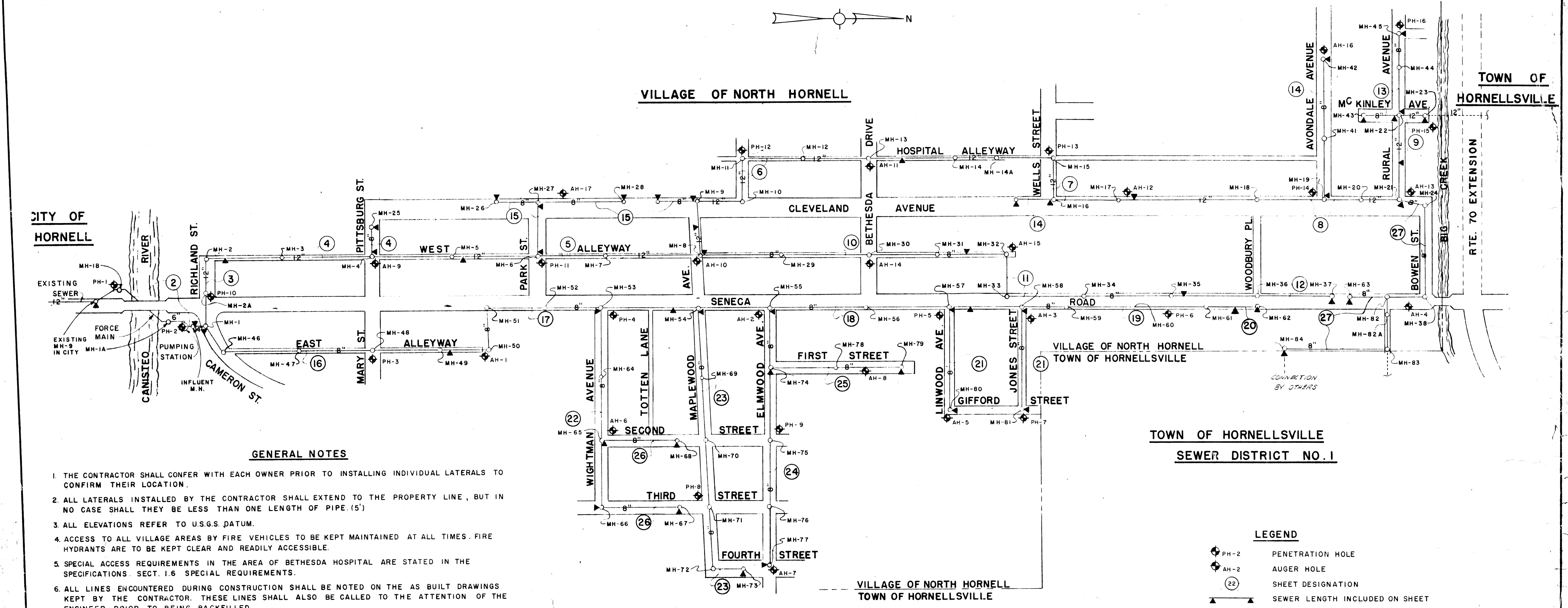
AS-BUILT RECORD DRAWING

These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor, supplemented by as-built surveys where appropriate. Critical dimensions should be confirmed if problems are encountered or additions or alterations are co

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, NEW YORK

Wheler
N
E NO. 31573

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



GENERAL NOTES

1. THE CONTRACTOR SHALL CONFER WITH EACH OWNER PRIOR TO INSTALLING INDIVIDUAL LATERALS TO CONFIRM THEIR LOCATION.
2. ALL LATERALS INSTALLED BY THE CONTRACTOR SHALL EXTEND TO THE PROPERTY LINE, BUT IN NO CASE SHALL THEY BE LESS THAN ONE LENGTH OF PIPE. (5')
3. ALL ELEVATIONS REFER TO U.S.G.S. DATUM.
4. ACCESS TO ALL VILLAGE AREAS BY FIRE VEHICLES TO BE KEPT MAINTAINED AT ALL TIMES. FIRE HYDRANTS ARE TO BE KEPT CLEAR AND READILY ACCESSIBLE.
5. SPECIAL ACCESS REQUIREMENTS IN THE AREA OF BETHESDA HOSPITAL ARE STATED IN THE SPECIFICATIONS. SECT. 1.6 SPECIAL REQUIREMENTS.
6. ALL LINES ENCOUNTERED DURING CONSTRUCTION SHALL BE NOTED ON THE AS BUILT DRAWINGS KEPT BY THE CONTRACTOR. THESE LINES SHALL ALSO BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO BEING BACKFILLED.
7. UPON COMPLETION OF WORK EACH NIGHT THE CONTRACTOR SHALL BACKFILL THE TRENCH UP TO THE LAST PIPE LENGTH LAID. ANY OPEN EXCAVATION SHALL BE PROPERLY BARRICADED AND LIGHTED.
8. ANY SEPTIC SYSTEMS ENCOUNTERED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL OPERATING CONDITION BY CONTRACTOR.
9. NO LIVE CONNECTIONS TO SEWER SHALL BE MADE BY CONTRACTOR. ALL LATERALS TO BE TIGHTLY PLUGGED TO PREVENT INFILTRATION & ALLOW FOR TESTING.

LEGEND

⊕ PH-2	PENETRATION HOLE
⊕ AH-2	AUGER HOLE
(22)	SHEET DESIGNATION
▲———▲	SEWER LENGTH INCLUDED ON SHEET
——○——	APPROXIMATE MANHOLE LOCATION
12"	SEWER SIZE
- - - - - -	FUTURE INTERMUNICIPAL TRUNK SEWER
MH-20	MANHOLE DESIGNATION

AS-[illegible] RECORD DRAWING

These drawings [illegible] to reflect [illegible] which occurred [illegible] construction. [illegible] furnished by [illegible], supplemented by [illegible] surveys where appropriate. [illegible] dimensions should be confirmed if problems are encountered or additions or changes are contemplated.

SCALE: 1" = 200'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.Q. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	
4	AS BUILT	WJC	12/7/71	W.L.A		W.L.A.	12/30/71
3	APPROVED FOR CONSTRUCTION		3/20/70	W.L.A.		JSG	3-26-70
2	REVISED	W.L.A.	2/23/70			AGW	2-23-[illegible]
1	FOR N.Y.S.J.H. & FEDERAL APPROVAL	RC	1/6/[illegible]		W.L.A.	AGW	2/5/70

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

SHEET INDEX & BORING LOCATIONS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

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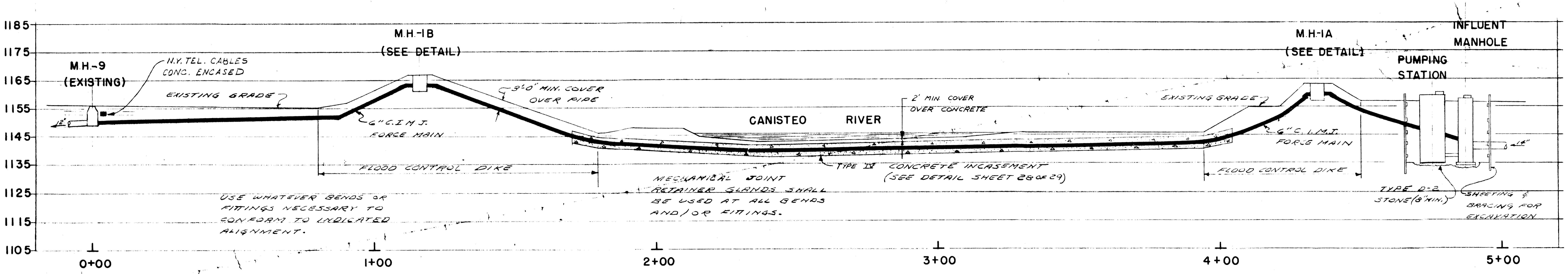
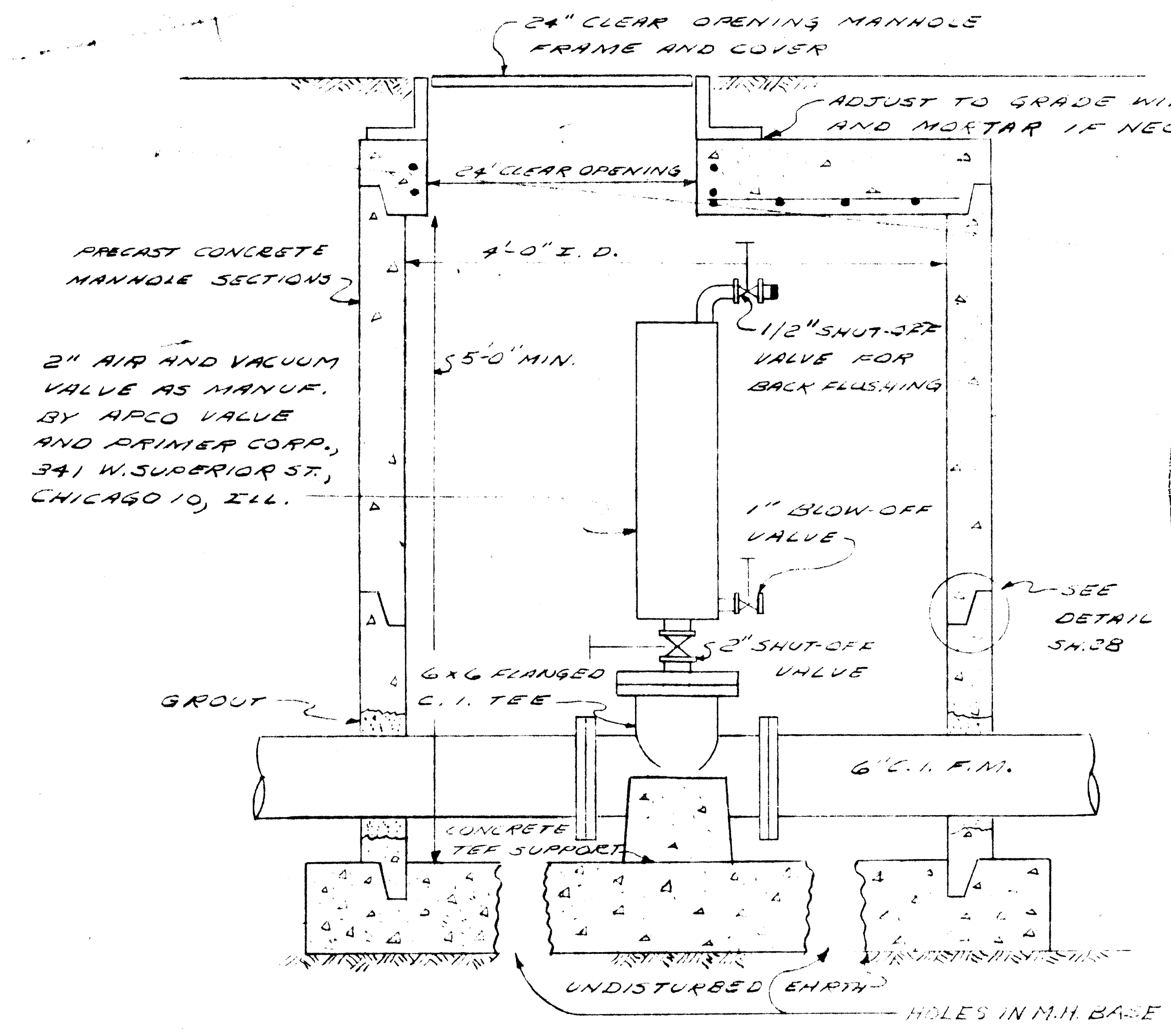

1185
1175
1165
1155
1145
1135
1125
1115
1105
M.H.-9
(EXISTING)
N.Y. TEL. CABLES CONC. ENCASED
EXISTING GRADE
12"
M.H.-1B
(SEE DETAIL)
3'-0" MIN. COVER OVER PIPE
6" C.I.M.J. FORCE MAIN
FLOOD CONTROL DIKE
USE WHATEVER BENDS OR FITTINGS NECESSARY TO CONFORM TO INDICATED ALIGNMENT.
CANISTEO RIVER
2' MIN COVER OVER CONCRETE
TYPE II CONCRETE INCASEMENT (SEE DETAIL SHEET 28 OF 29)
MECHANICAL JOINT RETAINER GLANDS SHALL BE USED AT ALL BENDS AND/OR FITTINGS.
EXISTING GRADE
M.H.-1A
(SEE DETAIL)
6" C.I.M.J. FORCE MAIN
FLOOD CONTROL DIKE
INFLUENT MANHOLE
PUMPING STATION
18"
TYPE D-2 STONE (6" MIN.)
SHEETING & BRACING FOR EXCAVATION
0+00
1+00
2+00
3+00
4+00
5+00

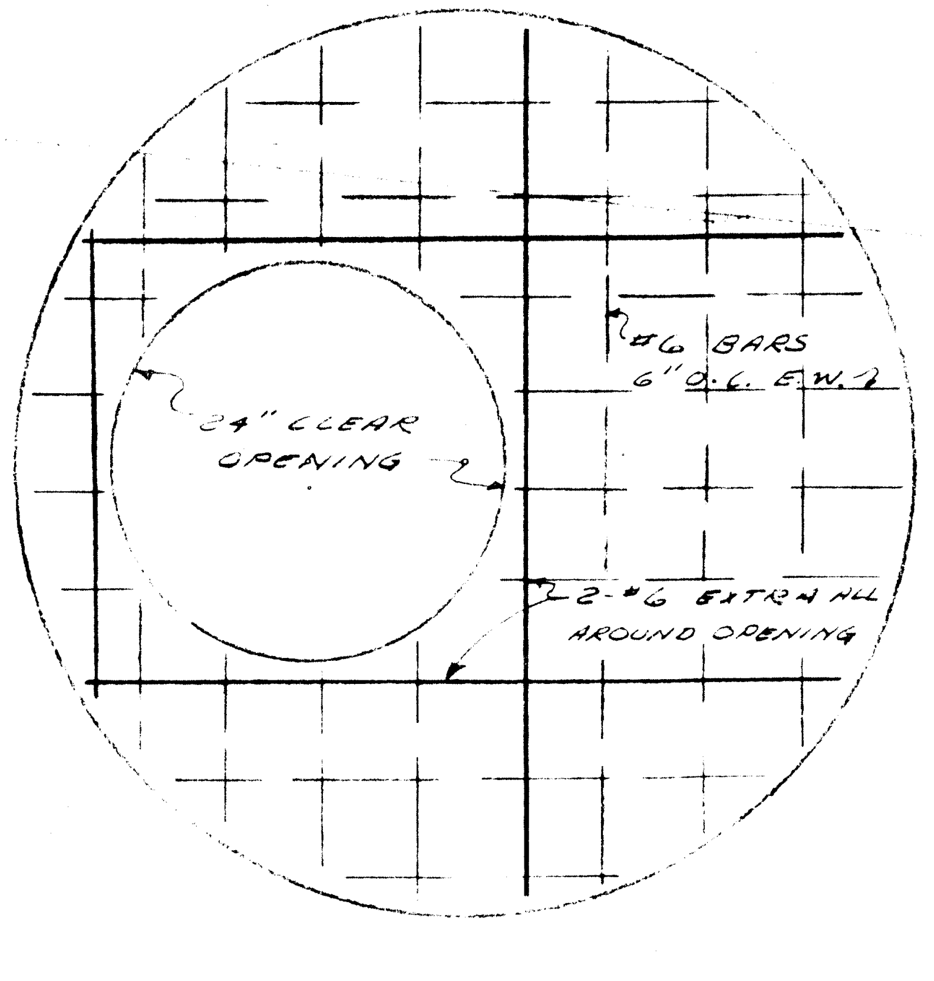
PROFILE - FORCE MAIN

(SCALE - VERT. 1" = 20'
HORIZ. 1" = 20')


24" CLEAR OPENING MANHOLE FRAME AND COVER
ADJUST TO GRADE WITH BRICK AND MORTAR IF NECESSARY.
24" CLEAR OPENING
PRECAST CONCRETE MANHOLE SECTIONS
4'-0" I.D.
5'-0" MIN.
2" AIR AND VACUUM VALVE AS MANUF. BY APCO VALVE AND PRIMER CORP., 341 W. SUPERIOR ST., CHICAGO 10, ILL.
1 1/2" SHUT-OFF VALVE FOR BACK FLUSHING
1" BLOW-OFF VALVE
SEE DETAIL SH. 28
2" SHUT-OFF VALVE
6 X 6 FLANGED C.I. TEE
GROUT
6" C.I. F.M.
CONCRETE TEE SUPPORT
UNDISTURBED EARTH
HOLES IN M.H. BASE TO ALLOW WATER TO ESCAPE

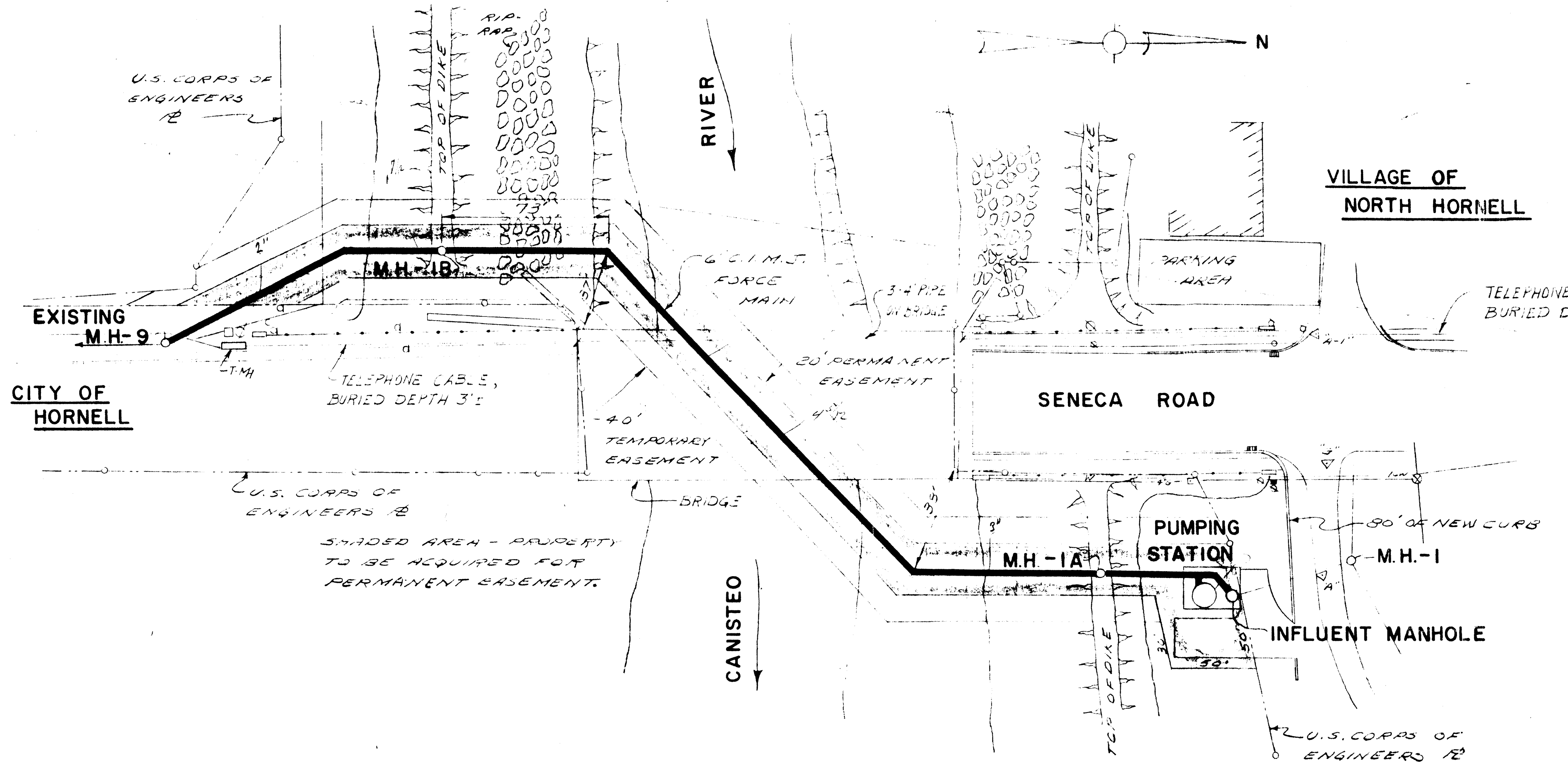
DETAIL - MANHOLE 1A & 1B

(NO SCALE)



MANHOLE COVER REINFORCING

(NO SCALE)

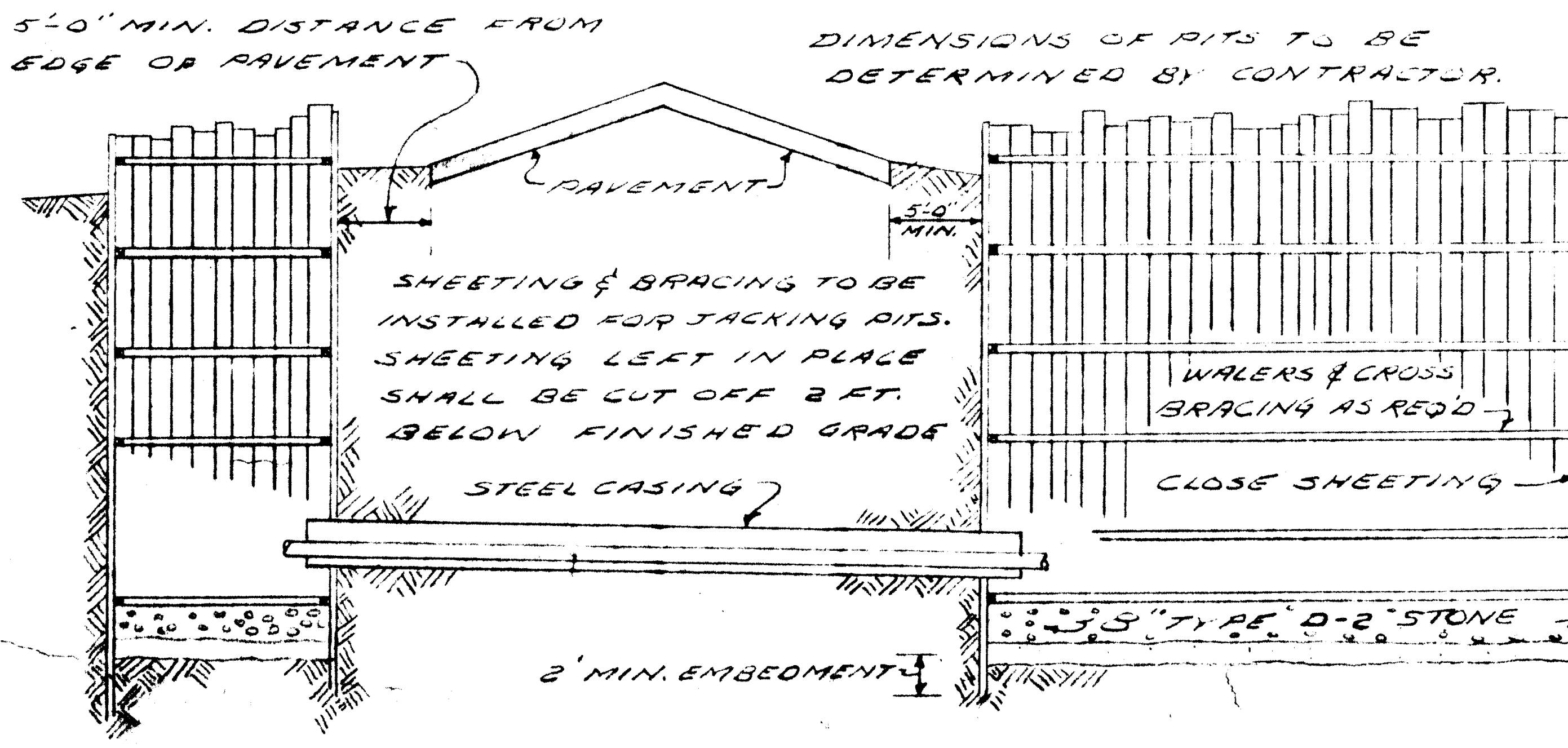


PLAN - FORCE MAIN

(SCALE - 1" = 40')

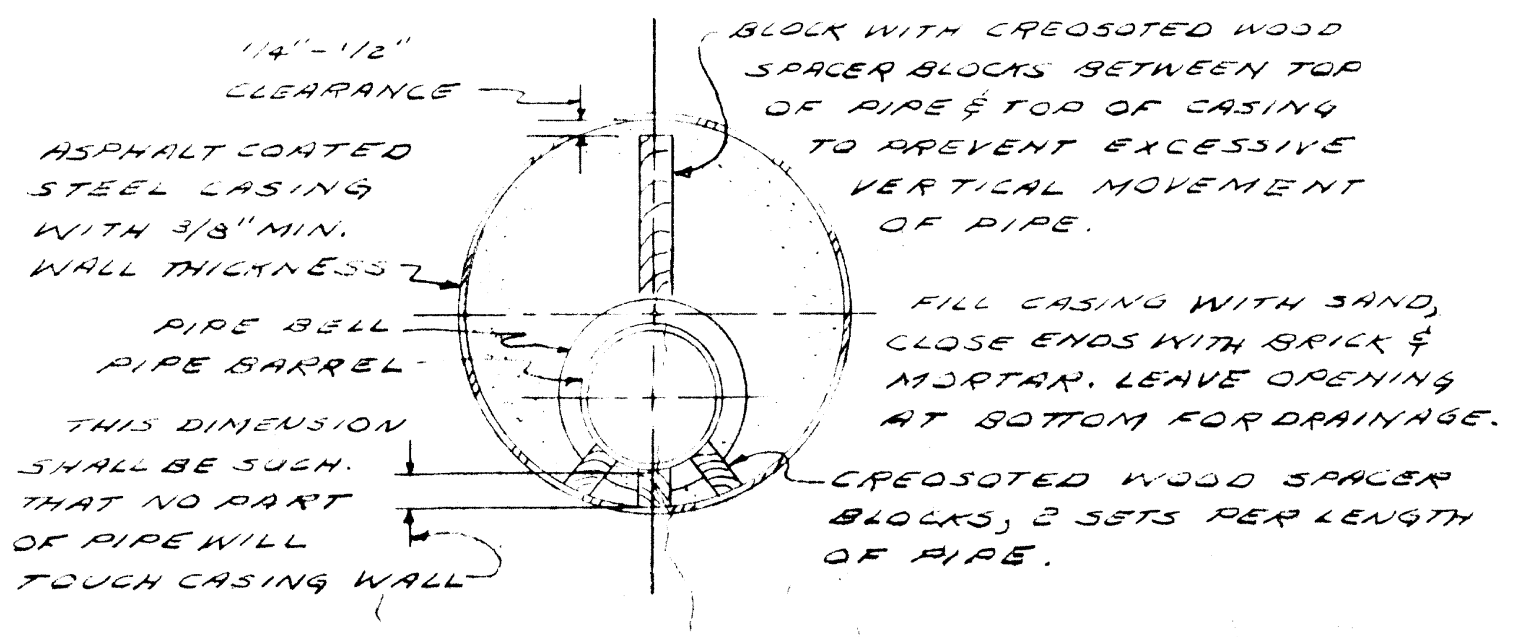
AS BUILT RECORD DRAWING

[illegible] to re- [illegible] which occurred [illegible] should be [illegible] additions or alterations are contemplated.


5'-0" MIN. DISTANCE FROM EDGE OF PAVEMENT
DIMENSIONS OF PITS TO BE DETERMINED BY CONTRACTOR.
PAVEMENT
2'-0" MIN.
SHEETING & BRACING TO BE INSTALLED FOR JACKING PITS. SHEETING LEFT IN PLACE SHALL BE CUT OFF 2 FT. BELOW FINISHED GRADE
WALERS & CROSS BRACING AS REQ'D
CLOSE SHEETING
STEEL CASING
3" TYPE D-2 STONE
2' MIN. EMBEDMENT

TYPICAL JACKING PIT DETAILS

(NO SCALE)


1/4" - 1/2" CLEARANCE
BLOCK WITH CREOSOTED WOOD SPACER BLOCKS BETWEEN TOP OF PIPE & TOP OF CASING TO PREVENT EXCESSIVE VERTICAL MOVEMENT OF PIPE.
ASPHALT COATED STEEL CASING WITH 3/8" MIN. WALL THICKNESS
PIPE BELL
PIPE BARREL
FILL CASING WITH SAND, CLOSE ENDS WITH BRICK & MORTAR. LEAVE OPENING AT BOTTOM FOR DRAINAGE.
THIS DIMENSION SHALL BE SUCH THAT NO PART OF PIPE WILL TOUCH CASING WALL
CREOSOTED WOOD SPACER BLOCKS, 2 SETS PER LENGTH OF PIPE.

TYPICAL SECTION THRU CASING

(NO SCALE)

LICENSED PROFESSIONAL ENGINEER · UNIVERSITY OF THE STATE OF NEW YORK

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W.H. ROWELL 29518
S.G. BRISBIN 31810
R.J. SMITH 38079
W.O. LYNCH 37958
F.S. KEITH 39959
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	AS BUILT WJC	12/17/71	W.L.A.		W.L.A.	12/30/71
3	APPROVED FOR CONSTRUCTION	3/20/70	W.L.A.		JSG	3-26-70
2	REDESIGNED FOR CORPS OF ENGR'S W.L.A.	2-21-69		W.L.A.	AGW	2-21-69
1	FOR NYSDH & FEDERAL APPROVAL W.L.A./R.C.	11-25-68		W.L.A.	AGW	2/5/69

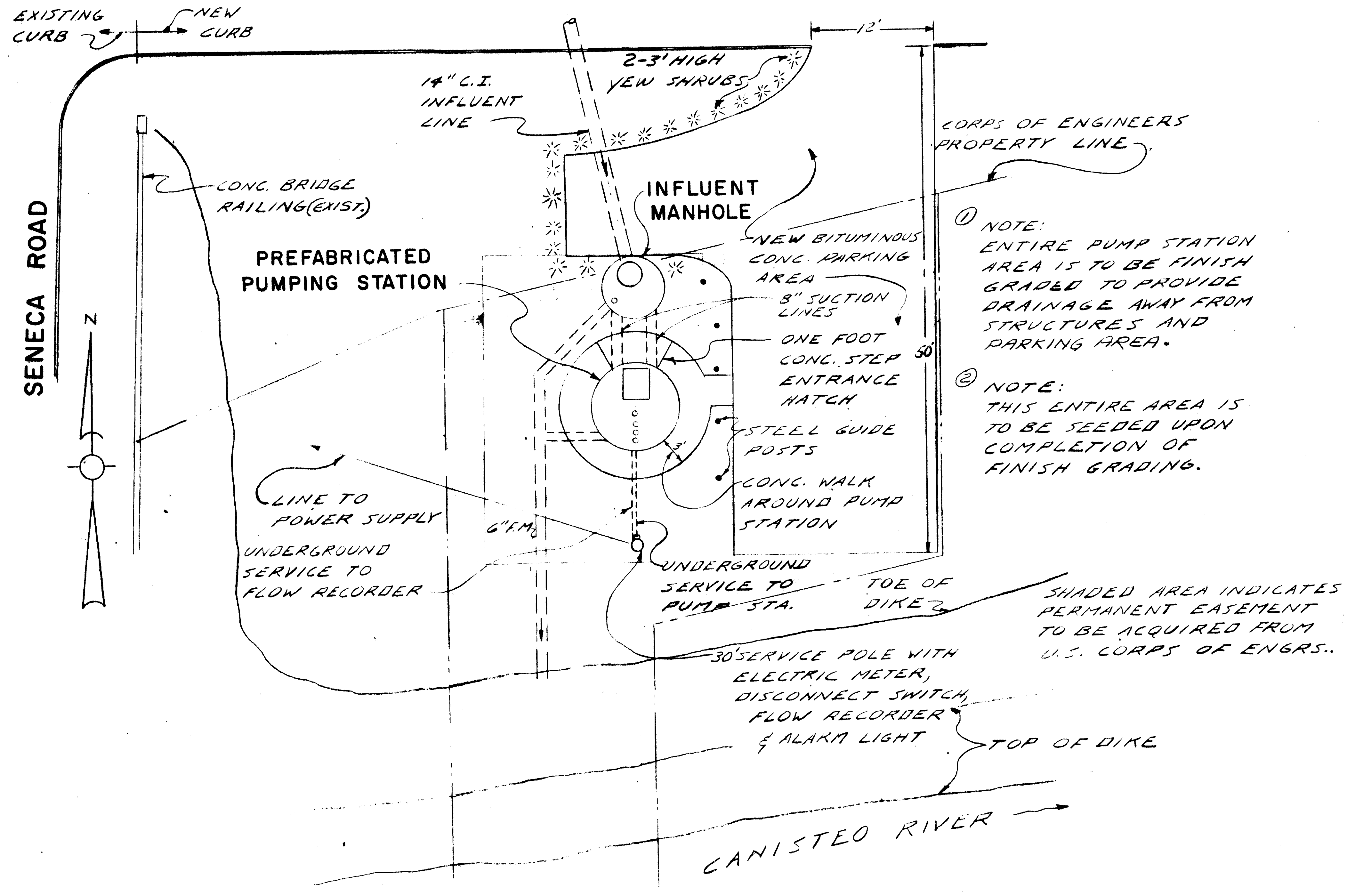
APPROVED
Wayne L. Adams A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

FORCE MAIN & JACKING PIT DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 CONTRACT NO. 1 SHEET 2 OF 29


EXISTING CURB
NEW CURB
12'
2-3' HIGH YEW SHRUBS
14" C.I. INFLUENT LINE
CORPS OF ENGINEERS PROPERTY LINE
CONC. BRIDGE RAILING (EXIST.)
INFLUENT MANHOLE
SENECA ROAD
PREFABRICATED PUMPING STATION
NEW BITUMINOUS CONC. PARKING AREA
8" SUCTION LINES
ONE FOOT CONC. STEP ENTRANCE HATCH
50'
N
3'
STEEL GUIDE POSTS
CONC. WALK AROUND PUMP STATION
LINE TO POWER SUPPLY
6" F.M.
UNDERGROUND SERVICE TO FLOW RECORDER
UNDERGROUND SERVICE TO PUMP STA.
TOE OF DIKE
30' SERVICE POLE WITH ELECTRIC METER, DISCONNECT SWITCH, FLOW RECORDER & ALARM LIGHT
TOP OF DIKE
CANISTEO RIVER

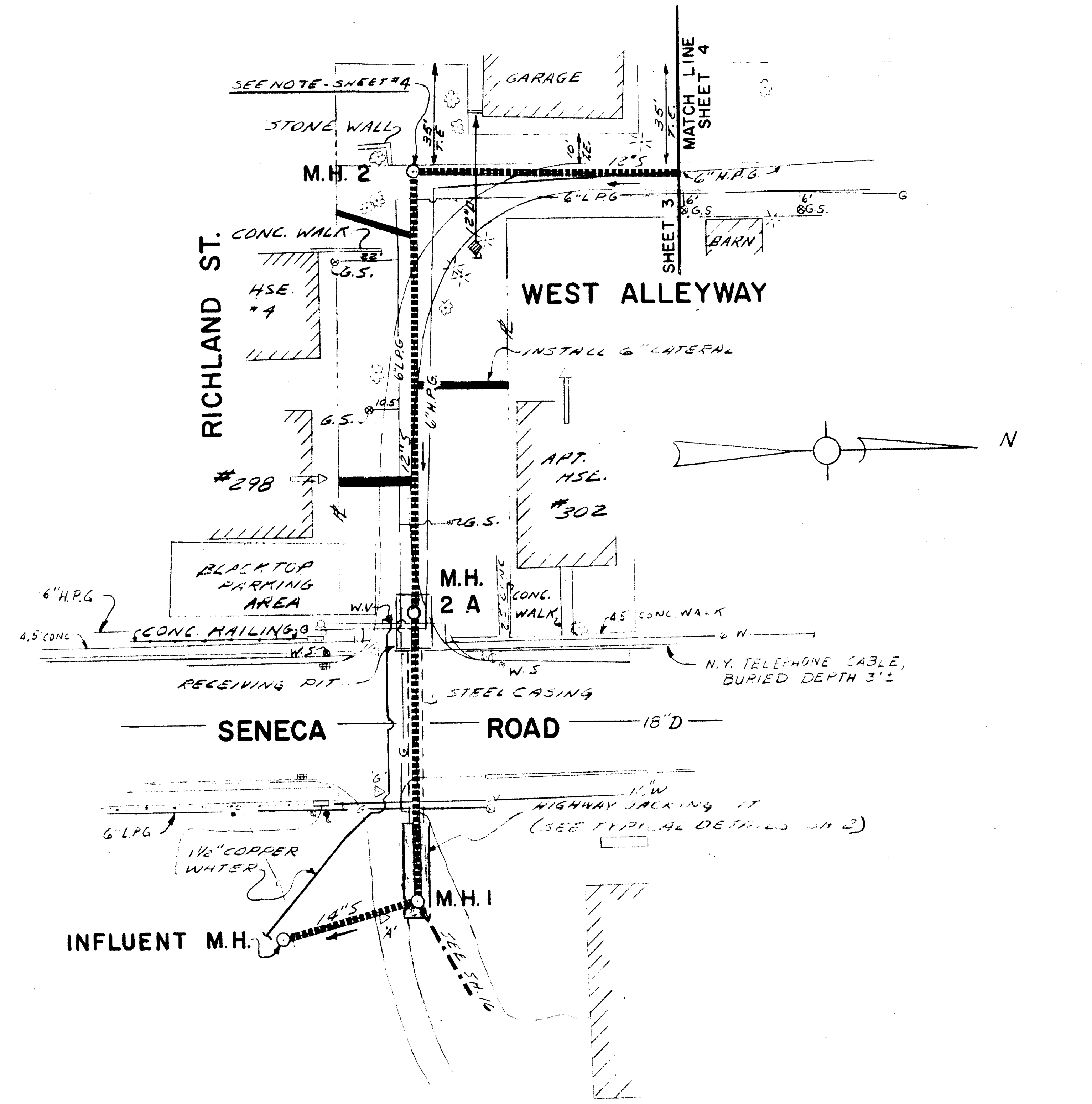
① NOTE:
ENTIRE PUMP STATION AREA IS TO BE FINISH GRADED TO PROVIDE DRAINAGE AWAY FROM STRUCTURES AND PARKING AREA.

② NOTE:
THIS ENTIRE AREA IS TO BE SEEDED UPON COMPLETION OF FINISH GRADING.

SHADED AREA INDICATES PERMANENT EASEMENT TO BE ACQUIRED FROM U.S. CORPS OF ENGRS..

PUMPING STATION SITE PLAN

SCALE: 1" = 10'



NOTE:
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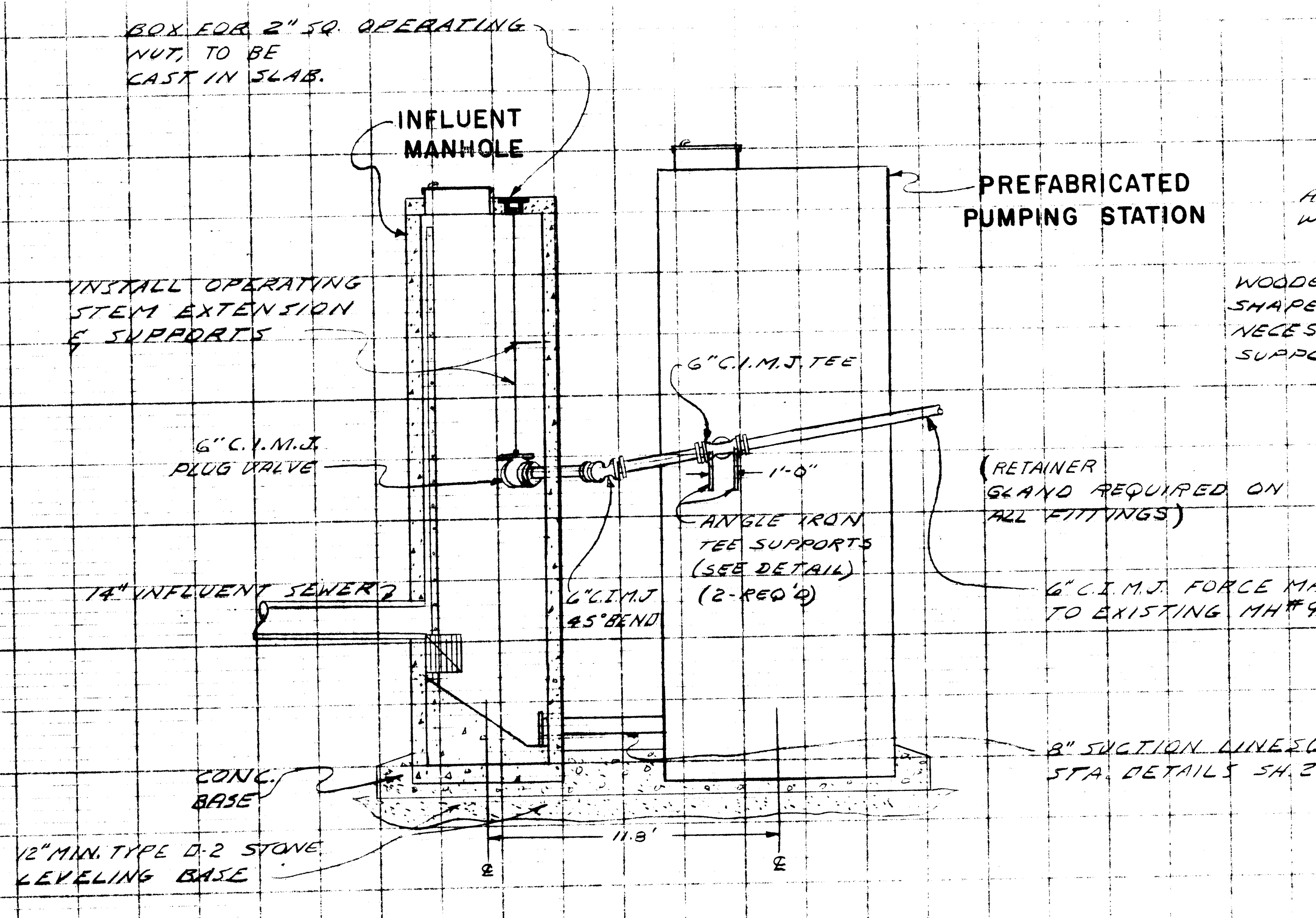
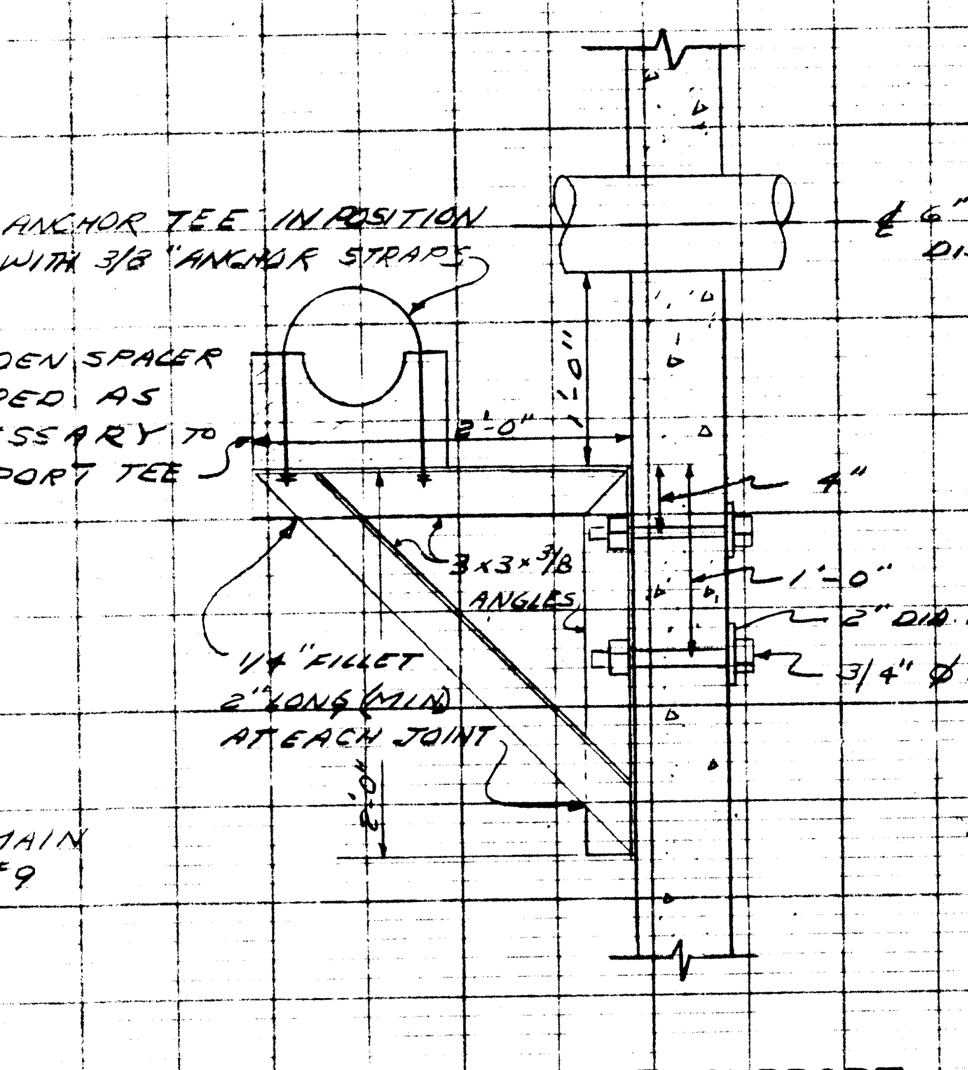
PLAN 1"= 40'


BOX FOR 2" SQ. OPERATING NUT, TO BE CAST IN SLAB.
INFLUENT MANHOLE
PREFABRICATED PUMPING STATION
INSTALL OPERATING STEM EXTENSION & SUPPORTS
6" C.I.M.J. TEE
6" C.I.M.J. PLUG VALVE
1'-0"
(RETAINER GLAND REQUIRED ON ALL FITTINGS)
ANGLE IRON TEE SUPPORTS (SEE DETAIL) (2-REQ'D)
14" INFLUENT SEWER
6" C.I.M.J 45° BEND
6" C.I.M.J. FORCE MAIN TO EXISTING MH #9
8" SUCTION LINES (SEE PUMP STA. DETAILS SH. 29 of 29)
CONC. BASE
12" MIN. TYPE D-2 STONE LEVELING BASE
11.8'
℄
℄

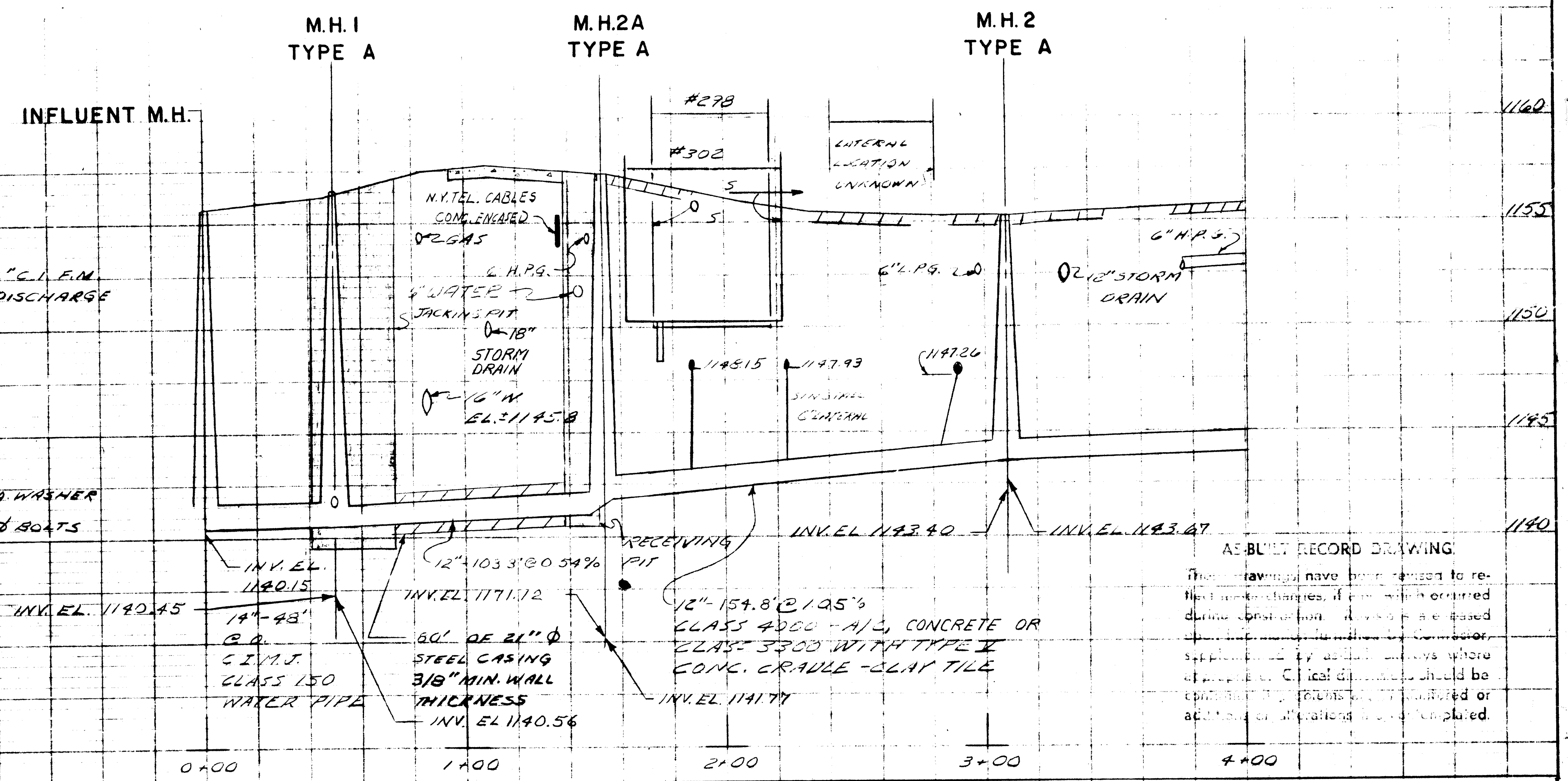
ELEVATION - FORCE MAIN AT PUMPING STATION

SCALE: VERT - 1" = 5'
HORZ: - 1" = 5'


ANCHOR TEE IN POSITION WITH 3/8" ANCHOR STRAPS
℄ 6" C.I. F.M. DISCHARGE
WOODEN SPACER SHAPED AS NECESSARY TO SUPPORT TEE
2'-0"
1'-0"
4"
3×3×3/8 ANGLES
1'-0"
2" DIA. WASHER
3/4" ⌀ BOLTS
1/4" FILLET 2" LONG (MIN) AT EACH JOINT
2'-0"

DETAIL - TEE SUPPORT

(NO SCALE)



AS-BUILT RECORD DRAWING
These drawings have been revised to reflect [illegible] changes, if any, which occurred during construction. [illegible] are based upon [illegible] furnished by Contractor, supplemented by as-built surveys where appropriate. Critical dimensions should be confirmed by [illegible] tests [illegible] or additions or alterations are contemplated.

PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	AS BUILT WJC	12/17/71	W.L.A.		W.L.A.	12/30/71
3	APPROVED FOR CONSTRUCTION	3/20/70	W.L.A.		JSG	3-26-70
2	REVISED W.L.A.	2-69		W.L.A.	AGW	2-21-69
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

14" & 12" - SEWER PUMP STATION TO WEST ALLEYWAY

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 3 OF 29

NOTE:
CONTRACTOR SHALL LOCATE GAS LINES IN THE AREA OF M.H.#3 PRIOR TO CONSTRUCTION OF M.H.#2, OR M.H.#4 OR THE LINES BETWEEN THESE M.H.'S, TO INSURE THAT M.H.#3 AND THE NEW 12" SEWER LINES WILL FIT AT THE LOCATIONS SHOWN W/O INTERFERING WITH THE EXISTING GAS LINES. BECAUSE OF THE CLOSE PROXIMITY OF THESE GAS LINES REALIGNMENT MAY BE NECESSARY. THE ENGINEER SHALL BE PRESENT DURING THESE EXPLORATORY EXCAVATIONS TO MAKE ANY REQUIRED CHANGES.

NOTE:
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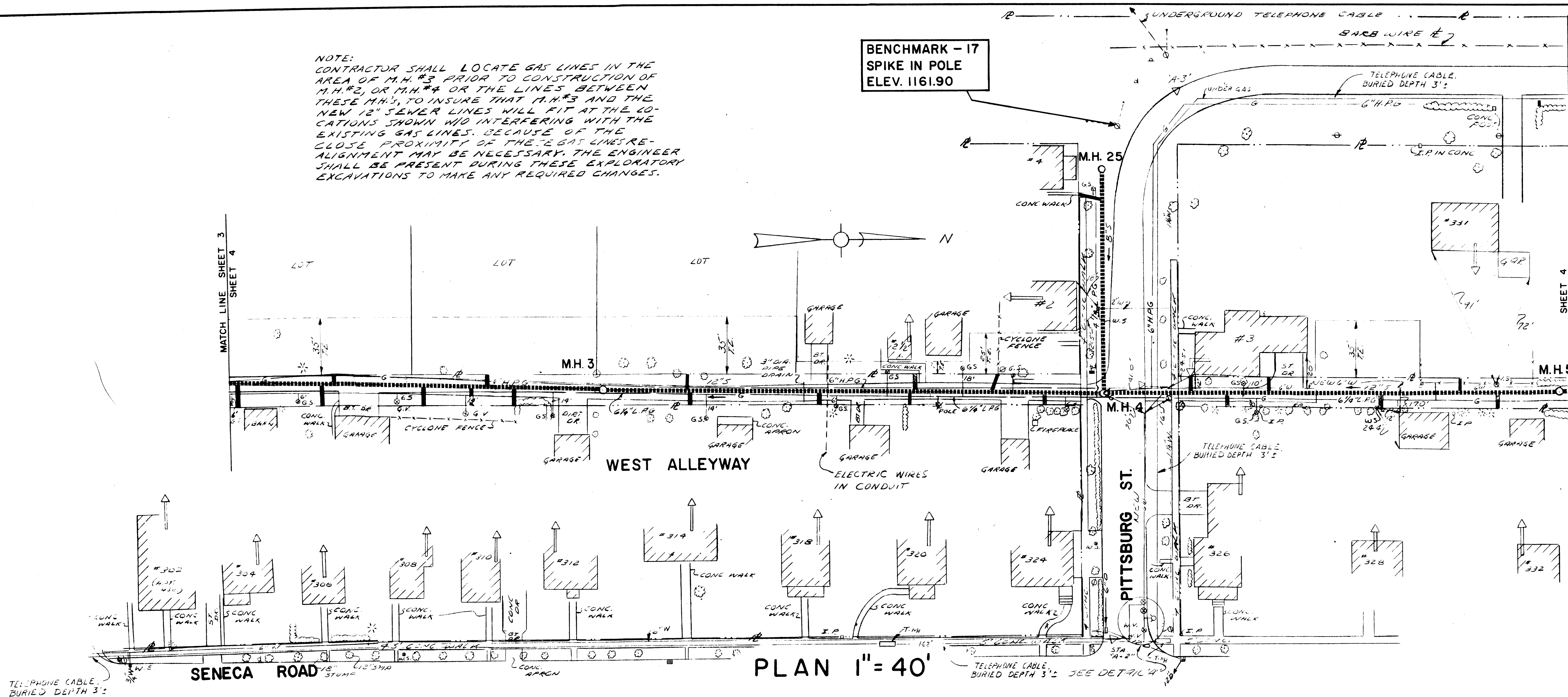
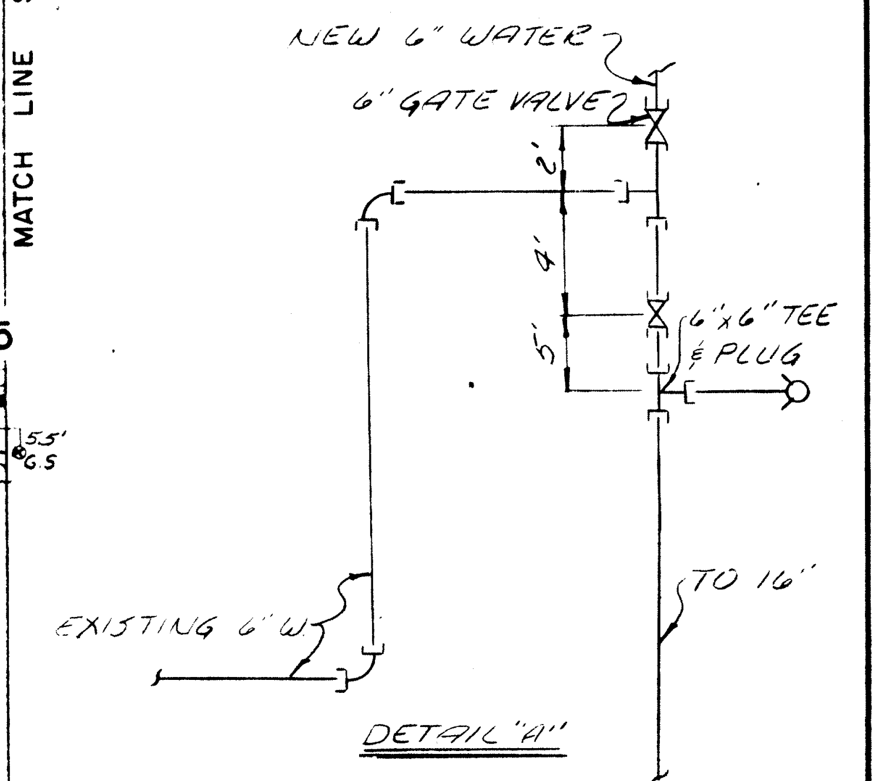


PLAN 1"=40'



DETAIL "A"

[illegible] RECORD DRAWING
[illegible] to re- [illegible] changes, if any [illegible] based [illegible] contractor, [illegible] surveys where [illegible] should be [illegible] or [illegible] alterations are contemplated.

PROFILE 1"=5'

LICENSED PROFESSIONAL ENGINEER
UNIVERSITY OF THE STATE OF NEW YORK

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APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - WEST ALLEYWAY & PITTSBURG ST.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 4 OF 29

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BENCHMARK – 18
SPIKE IN POLE
ELEV. 1158.80

THE CONTRACTOR SHALL PERFORM WHATEVER EXPLORATORY EXCAVATION NECESSARY TO VERIFY THE LOCATION OF THE 2" WATER AND 6¼" L.P.G. LINES BETWEEN M.H. #5 & M.H. #6 PRIOR TO CONSTRUCTION IN THIS AREA.

AT M.H. #6 THE 2" WATER LINE SHALL BE RELAID AROUND THE M.H. IF NECESSARY. IN NO CASE SHALL THE WATER OR GAS MAIN PASS THROUGH ANY PORTION OF THE NEW MANHOLE.

NOTE:
THE CONTRACTOR SHALL MAKE WHATEVER ARRANGEMENTS NECESSARY WITH THE REPRESENTATIVES OF THE FIRE DEPT. PRIOR TO CONSTRUCTION IN THIS AREA, TO INSURE THAT AT NO TIME ARE THE TRUCKS OR PERSONNEL RESTRAINED IN ANY WAY FROM CARRYING OUT THEIR DUTIES.

PLAN 1" = 40'

PROFILE 1" = 5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT WJC	12/17/71		W.L.A.	W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3/20/70		W.L.A.	JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	3/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N. Y.
SANITARY SEWER CONSTRUCTION

12" SEWER
WEST ALLEYWAY NEAR PARK ST.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 5

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

AS-BUILT [illegible]
This drawing [illegible] revised to [illegible] which occurred during construction. Revisions are based [illegible] Contractor. [illegible] should be [illegible] or [illegible] contemplated.

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT WJC	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams APPROVED A. Gordon Wheler

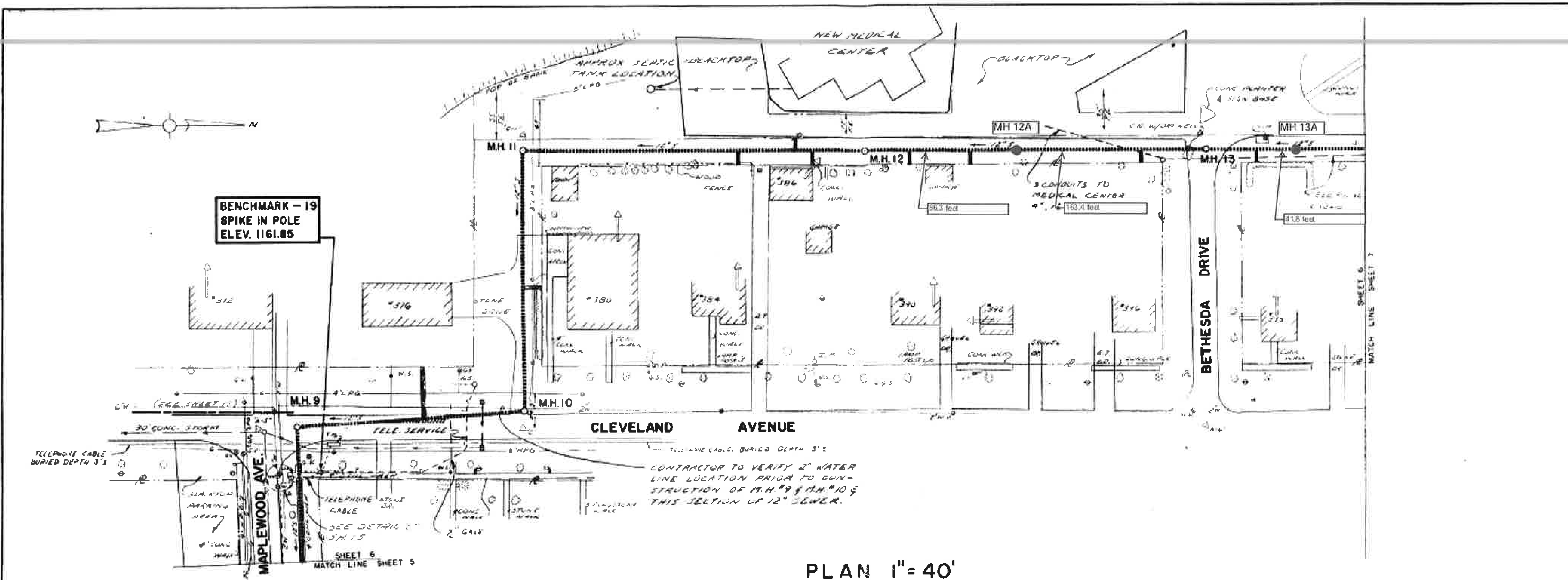
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - CLEVELAND AVE.
& HOSPITAL ALLEYWAY

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 6 OF 29

NOTE.
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"=40'

PROFILE 1"=5'

3	AS BUILT WJC 12/3/71 W.G.R.			W.I.A.	12/30/71
2	APPROVED FOR CONSTRUCTION 3-26-70 W.E.A.			JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL HA/RC 12-68 W.E.A.			AGW	8/6/69
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

A G Wheler - 31573
S G Bribble - 31810
W O Lynch - 37908
Not valid without approved signature

APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION
12" SEWER - CLEVELAND AVE. & HOSPITAL ALLEYWAY

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N.Y.

JOB NO. 531 FILE NO. 1 SHEET 6 OF 29

NOTE:
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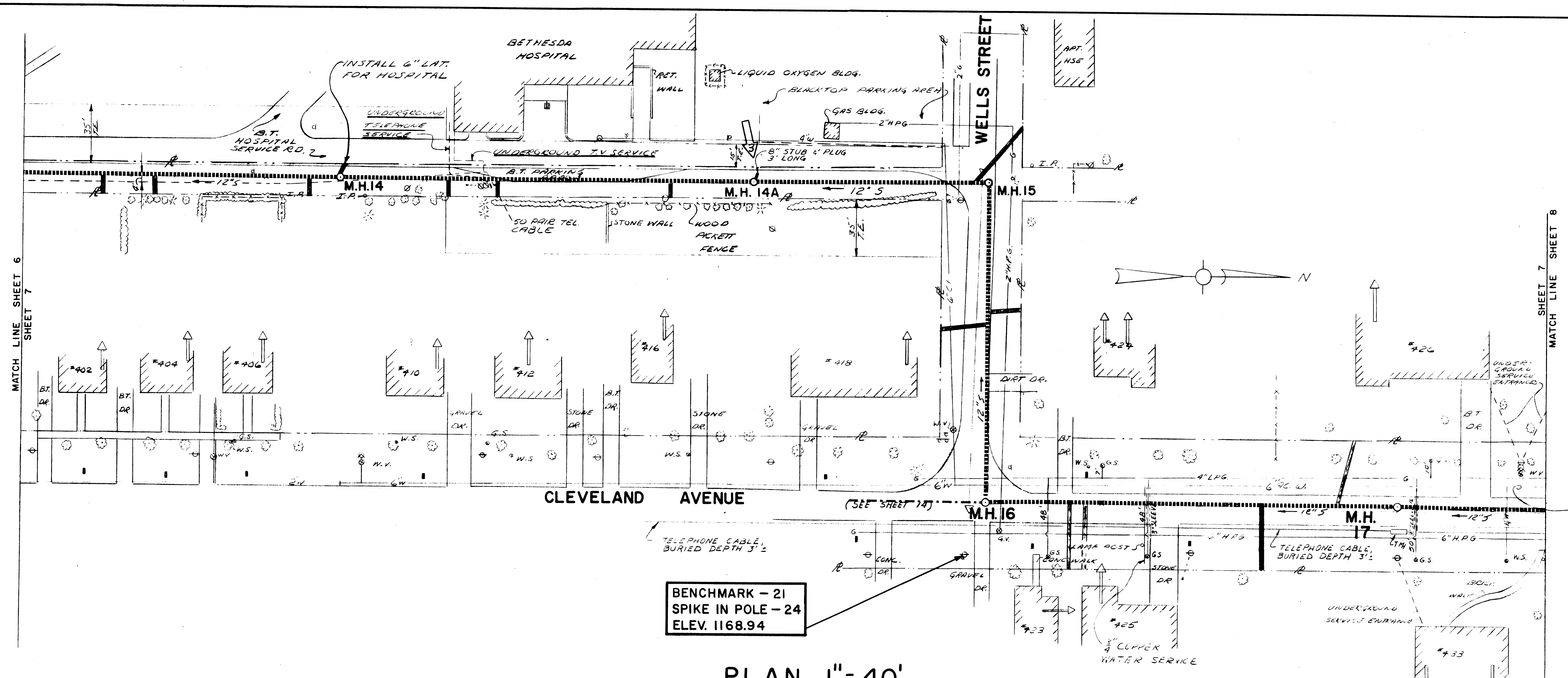


BENCHMARK – 21
SPIKE IN POLE – 24
ELEV. 1168.94

CONTRACTOR TO VERIFY LOCATION OF 6" WATER LINE ALONG CLEVELAND AVENUE BETWEEN MH#16 & MH#21 PRIOR TO CONSTRUCTION IN THAT AREA. CAUTION SHOULD BE OBSERVED IN LOCATING THIS MAIN AS IT IS BELIEVED TO BE ASBESTOS CEMENT PIPE.

PLAN 1"=40'

AS-BUILT RECORD DRAWING

These drawings have been revised to reflect those changes which occurred during construction. Revisions are based upon information furnished by Contractor, supplemented by as-built surveys where appropriate. Critical dimensions should be confirmed if problems are encountered or additions or alterations are contemplated.

DENOTES CHANGE ⇐

PROFILE 1"=5'

A. G. Wheler - 31573
S. G. Brisbin - 31810
W. O. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	AS BUILT	G.P.V.	12/1/71	W.L.A.		W.L.A.	12/30/71
3	ADDED M.H. 14A & STUB	AES				J.S.G.	11/16/70
2	APPROVED FOR CONSTRUCTION		3-20-70	W.L.A.		JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL	W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

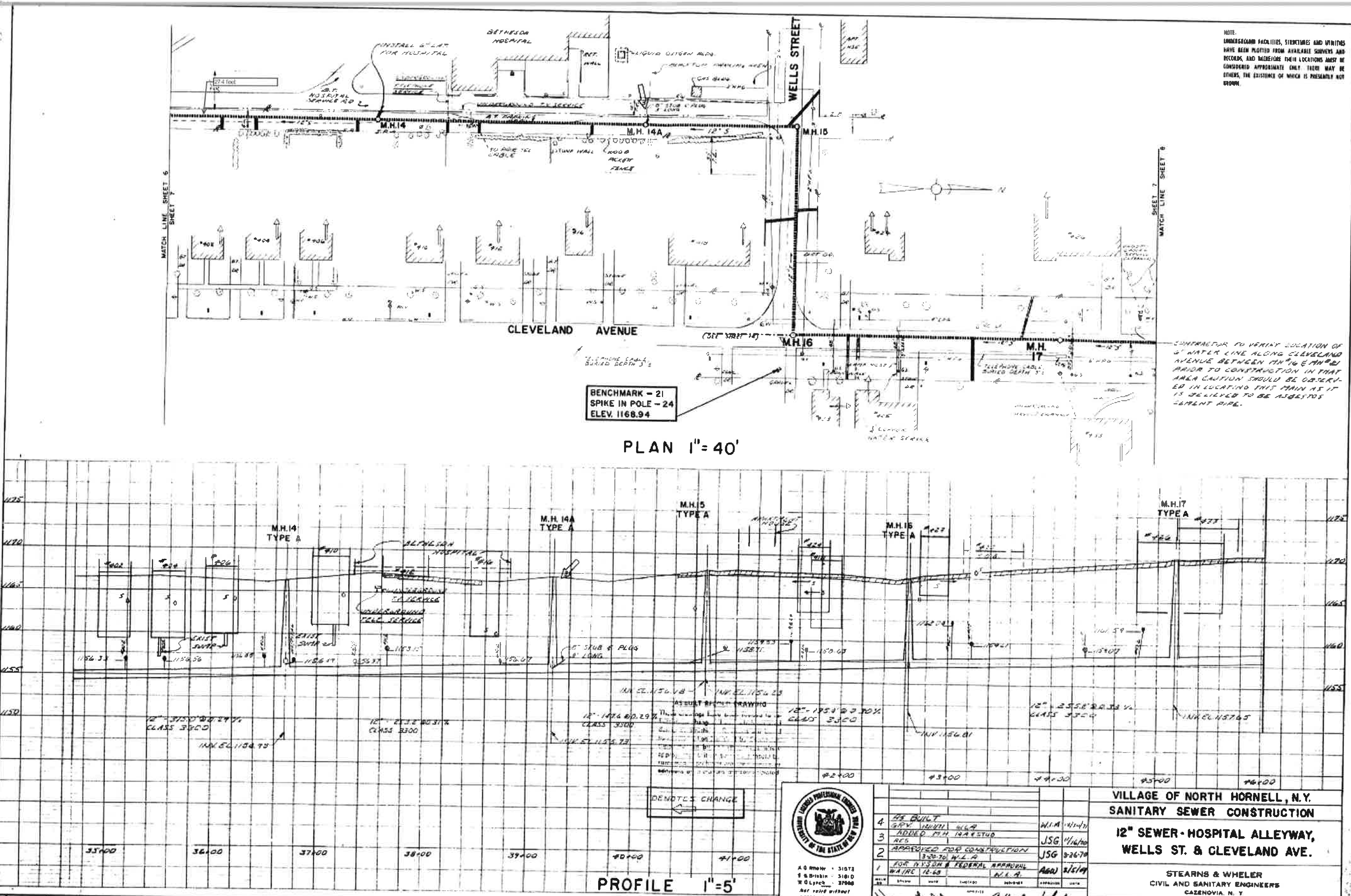
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - HOSPITAL ALLEYWAY, WELLS ST. & CLEVELAND AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 7 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



CONTRACTOR TO VERIFY LOCATION OF 6" WATER LINE ALONG CLEVELAND AVENUE BETWEEN MH #16 & MH #21 PRIOR TO CONSTRUCTION. IN THAT AREA CAUTION SHOULD BE OBSERVED IN LOCATING THIS MAIN AS IT IS BELIEVED TO BE ASBESTOS CEMENT PIPE.

BENCHMARK - 21
SPIKE IN POLE - 24
ELEV. 1168.94

AS BUILT RECORD DRAWING
[illegible]

DENOTES CHANGE

A G Wheler - 31573
S & Brisbin - 31810
W O Lynch - 37000
Not valid without approval signature

4	AS BUILT GRV. 12/1/71 WLA			W.L.A.	12/30/71
3	ADDED MH 14A & STUB RES			JSG	11/16/70
2	APPROVED FOR CONSTRUCTION 3-20-70 W.L.A.			JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC 12-68		W.L.A.	AGW	3/5/69

Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION
12" SEWER - HOSPITAL ALLEYWAY, WELLS ST. & CLEVELAND AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

531 1 7 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE:
CONTRACTOR TO VERIFY LOCATION OF 6" WATER LINE ALONG CLEVELAND AVENUE BETWEEN MH#16 & MH#21 PRIOR TO CONSTRUCTION IN THAT AREA. CAUTION SHOULD BE OBSERVED IN LOCATING THIS MAIN AS IT IS BELIEVED TO BE ASBESTOS CEMENT PIPE.

NOTE:
HOUSE #s 457, 459, 463, 465, 467, 475 & 470 ARE ALL FED BY 1 1/4" LINE FROM 16" @ "ORDWAY FLORISTS" THEY ARE NOT CONNECTED TO 6" A.C. WATER

BENCHMARK – 22
SPIKE IN POLE – 24
ELEV. 1173.69

BENCHMARK – 23
SPIKE IN POLE – 27
ELEV. 1176.30

BENCHMARK – 24
SPIKE IN POLE
ELEV. 1178.90

PLAN 1" = 40'

PROFILE 1" = 5'

A.G.Wheler - 31573
S.G.Brisbin - 31810
W.O.Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams A. Gordon Wheler

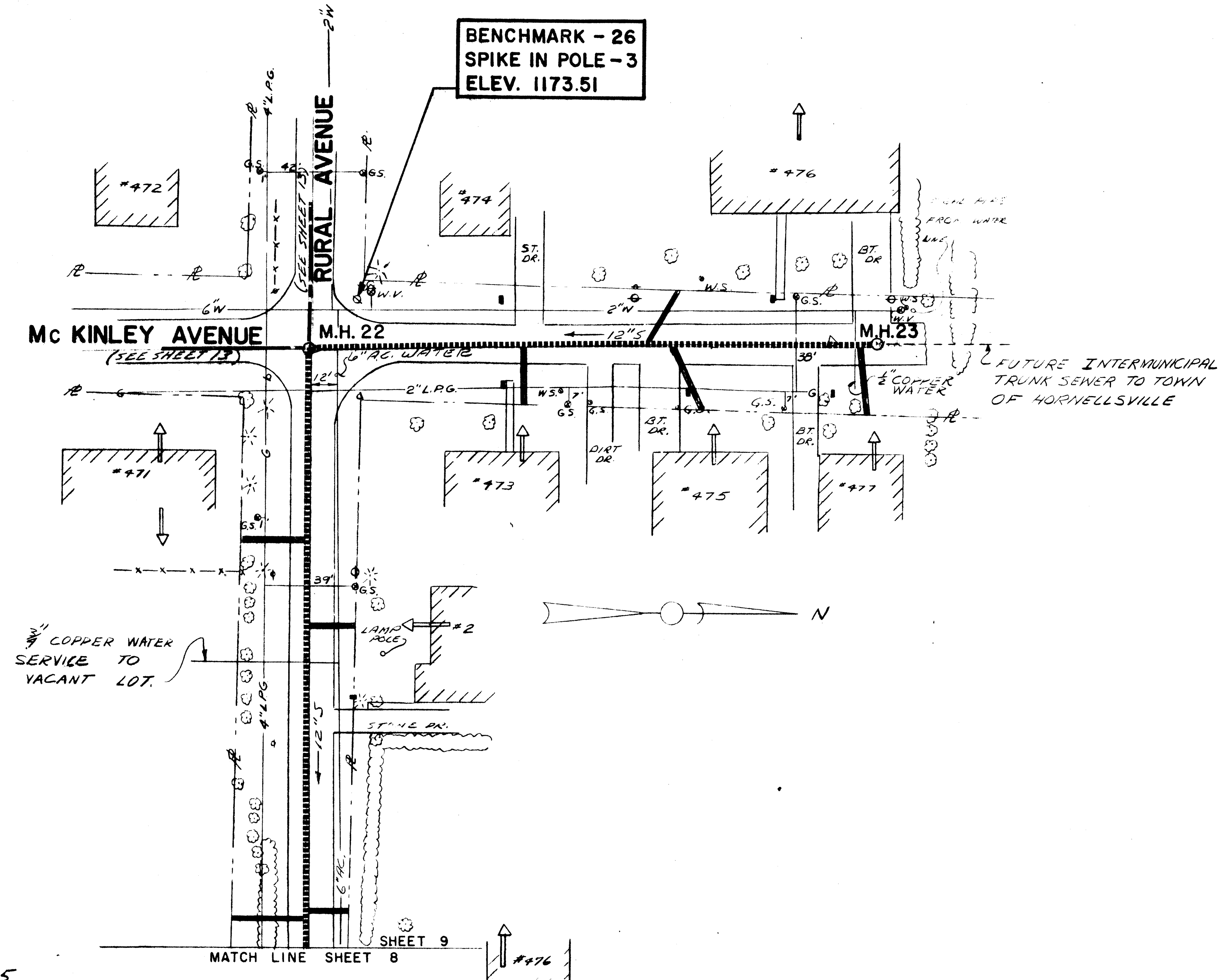
VILLAGE OF NORTH HORNELL, N. Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - CLEVELAND AVE.
NEAR AVONDALE ROAD

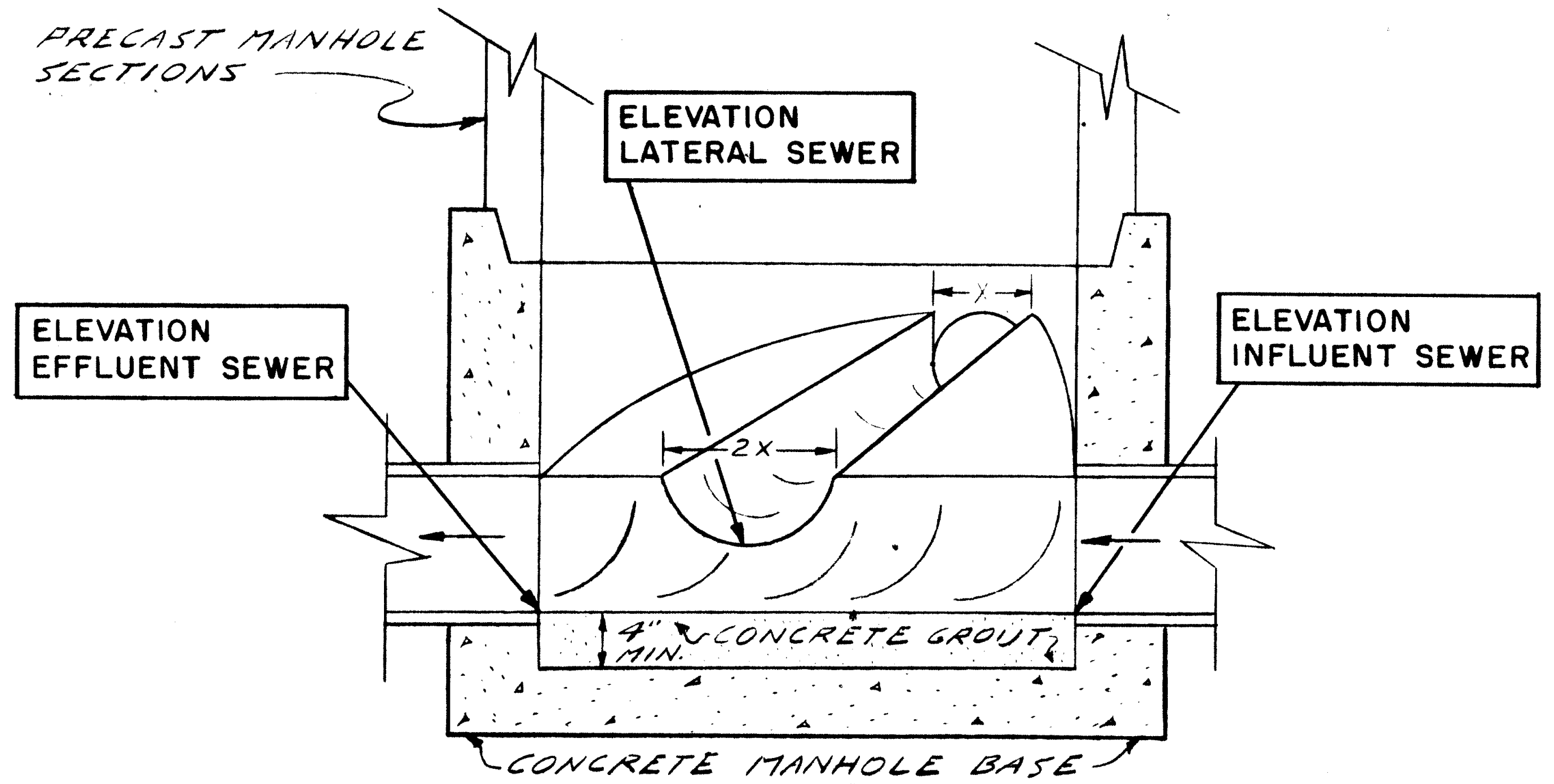
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 8 OF

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'



TYPICAL
BENCHWALL & MANHOLE
CHANNEL CONSTRUCTION

PROFILE 1"=5'

A.G.Wheler - 31573
S.G.Brisbin - 31810
W.O.Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams APPROVED A. Gordon Wheler

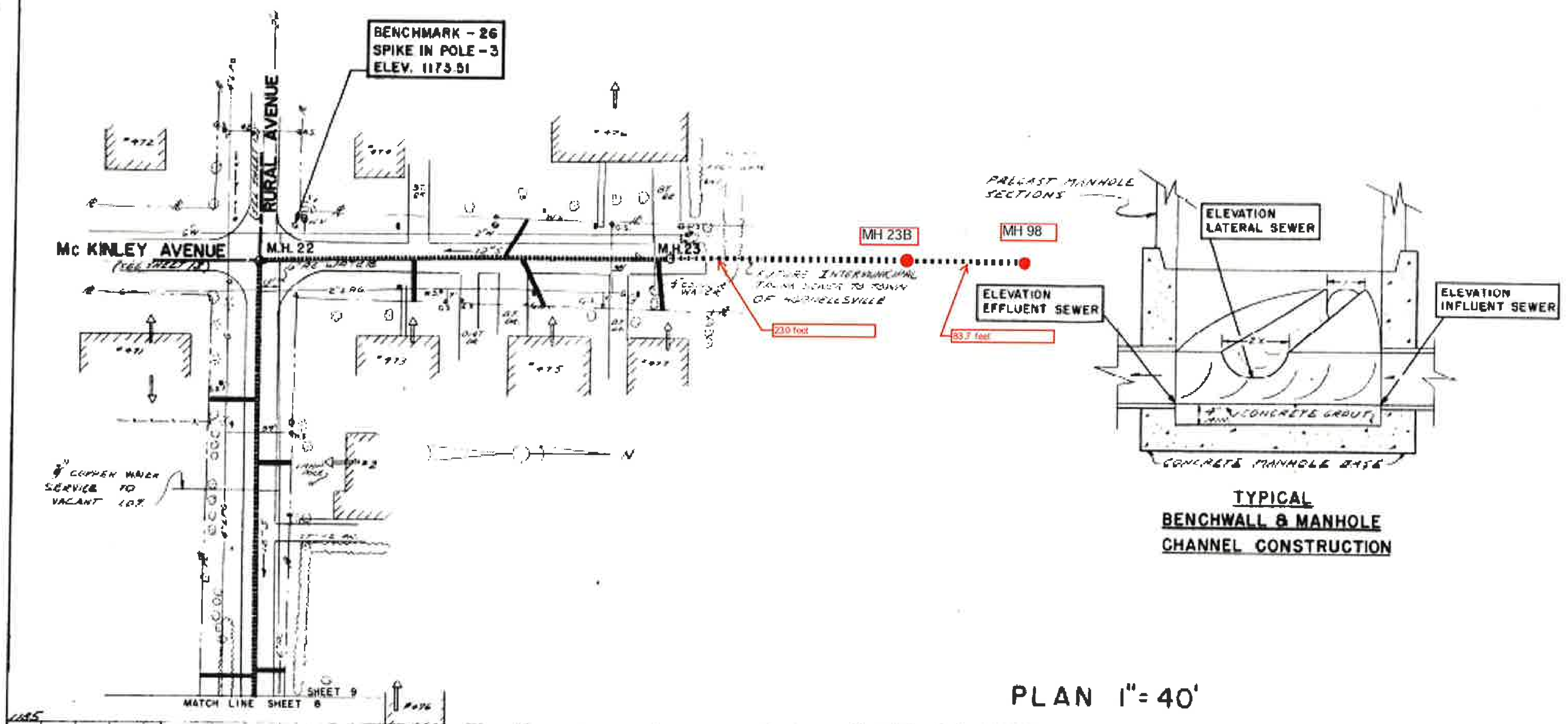
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - RURAL AVE.
10" SEWER McKINLEY AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

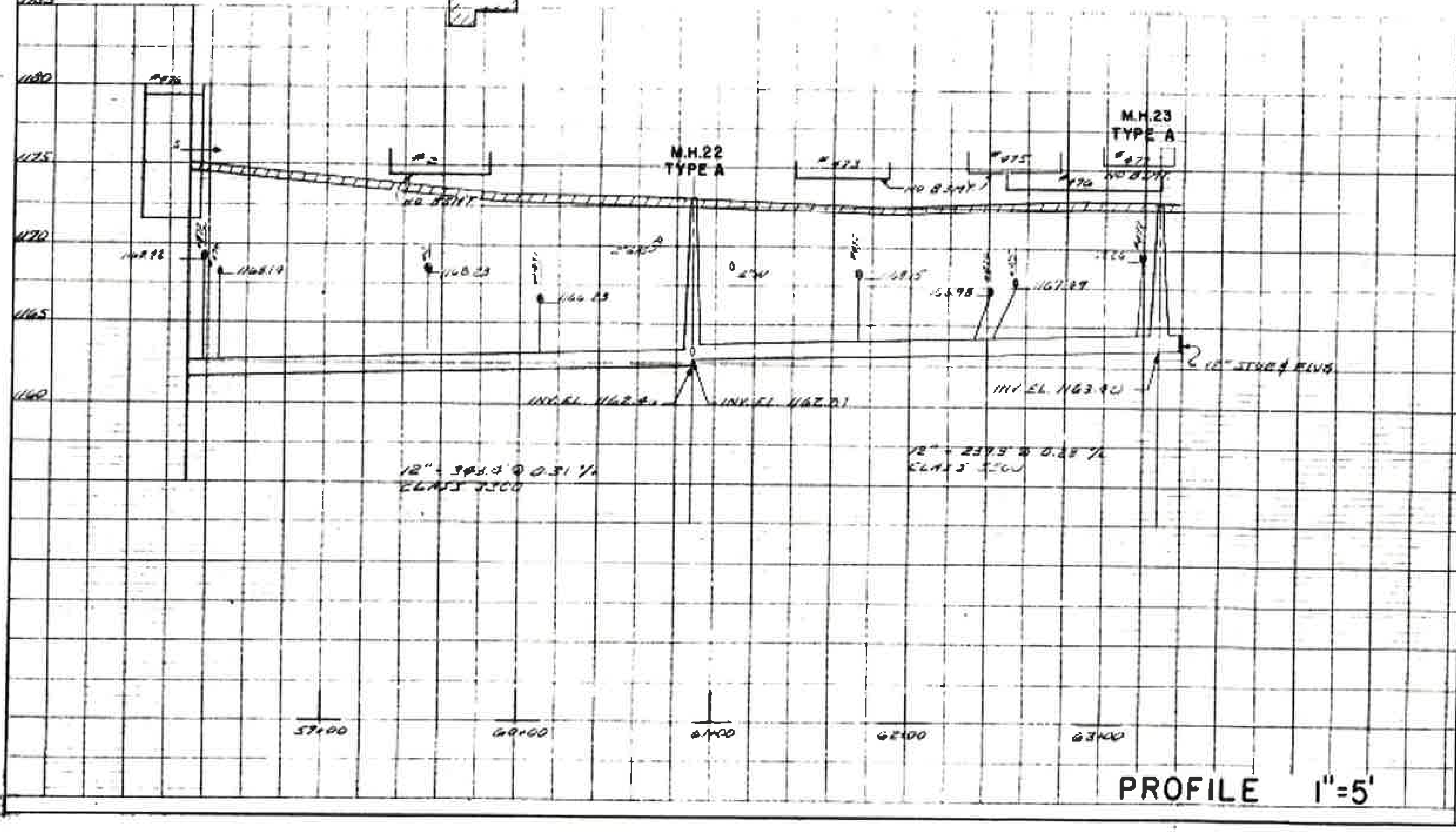
JOB NO 531 FILE NO 1 SHEET 9 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"=40'

TYPICAL
BENCHWALL & MANHOLE
CHANNEL CONSTRUCTION



PROFILE 1"=5'

A G Wheler - 31975
J. L. Billings - 31840
W. O. Lynch - 37908
Not valid without approval signature

No.						
3	AS BUILT SPV 11/11/71 W.L.A.				W.L.A.	11/30/71
2	APPROVED FOR CONSTRUCTION 3-26-70 W.L.A.				JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WAIRC 12-68 W.L.A.				AGW	2/5/69
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

Wayne L. A. Bowman — A Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

12" SEWER - RURAL AVE.
10" SEWER McKINLEY AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 | FILE NO. 1 | SHEET 9 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

0+00 1+00 2+00 3+00 4+00 5+00

PROFILE 1"=5'

A.G.Wheler - 31573
S.G.Brisbin - 31810
W.O.Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams A. Gordon Wheler

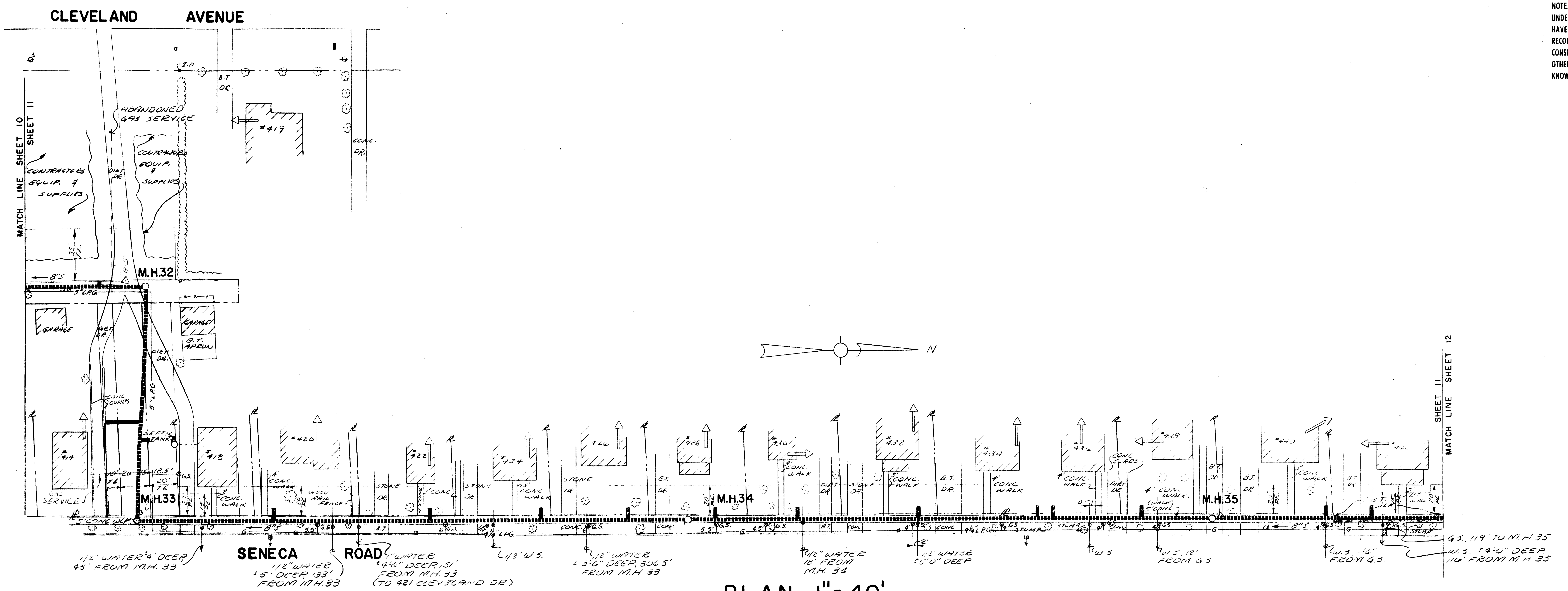
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - WEST ALLEYWAY
NEAR BETHESDA DRIVE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 10 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'

PROFILE 1" = 5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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1	FOR NYSDH & FEDERAL APPROVAL	WA/RC	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams

APPROVED A. Gordon Wheler

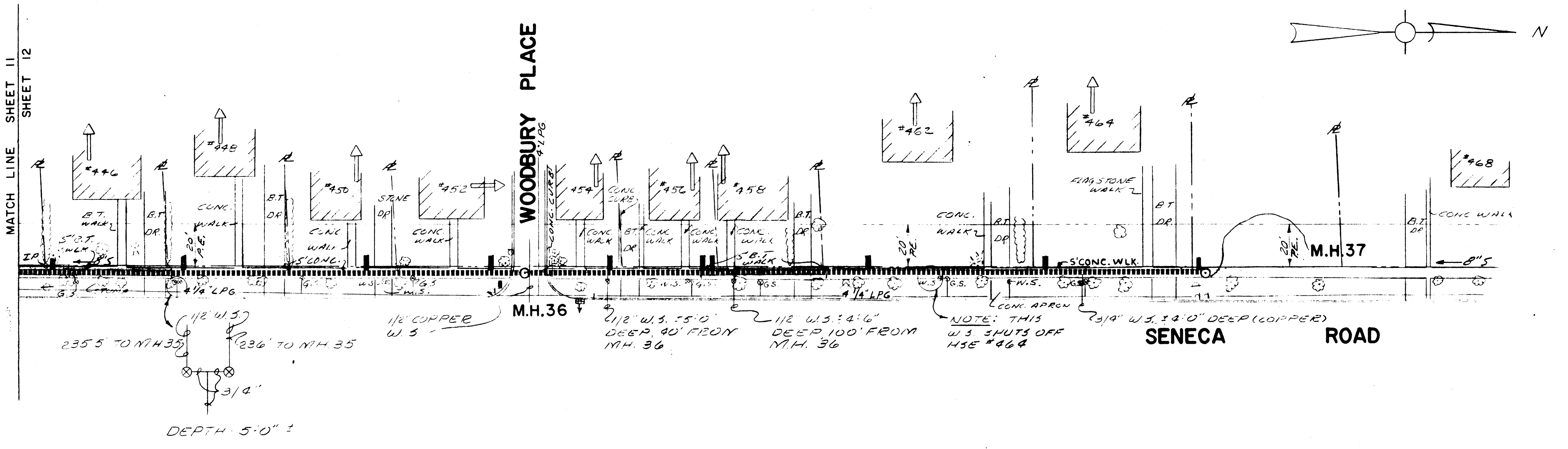
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - WEST ALLEYWAY & WEST SIDE SENECA ROAD

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 11 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'

AS-BUILT RECORD DRAWING
These drawings have been revised to reflect major changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor supplemented by as-built surveys where appropriate. Critical dimensions should be confirmed if problems are encountered or additions or alterations are contemplated.

PROFILE 1" = 5'

LICENSED PROFESSIONAL ENGINEER
UNIVERSITY OF THE STATE OF NEW YORK

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT	G.P.V.	12/17/71	W.L.A.		W.I.A.	12/30/71
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1	FOR NYSDH & FEDERAL APPROVAL	WA/R.C.	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams
APPROVED
A. Gordon Wheler

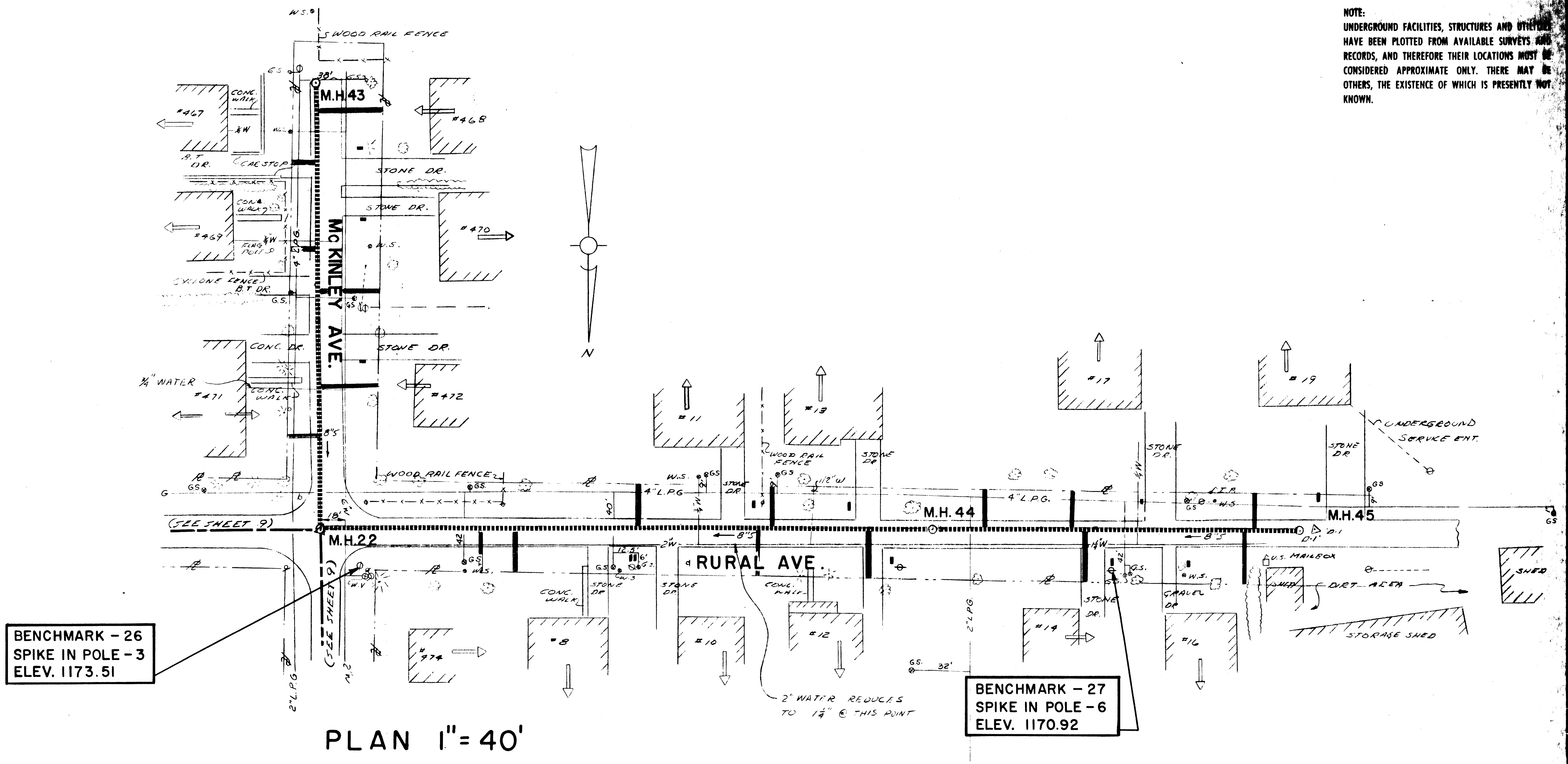
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - WEST SIDE SENECA RD. NEAR WOODBURY PLACE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 12 OF

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'

PROFILE 1"=5'

A.G.Wheler - 31573
S.G.Brisbin - 31810
W.O.Lynch - 37958
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ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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2	APPROVED FOR CONSTRUCTION	3-20-70		W.L.A.	JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams
APPROVED A. Gordon Wheler

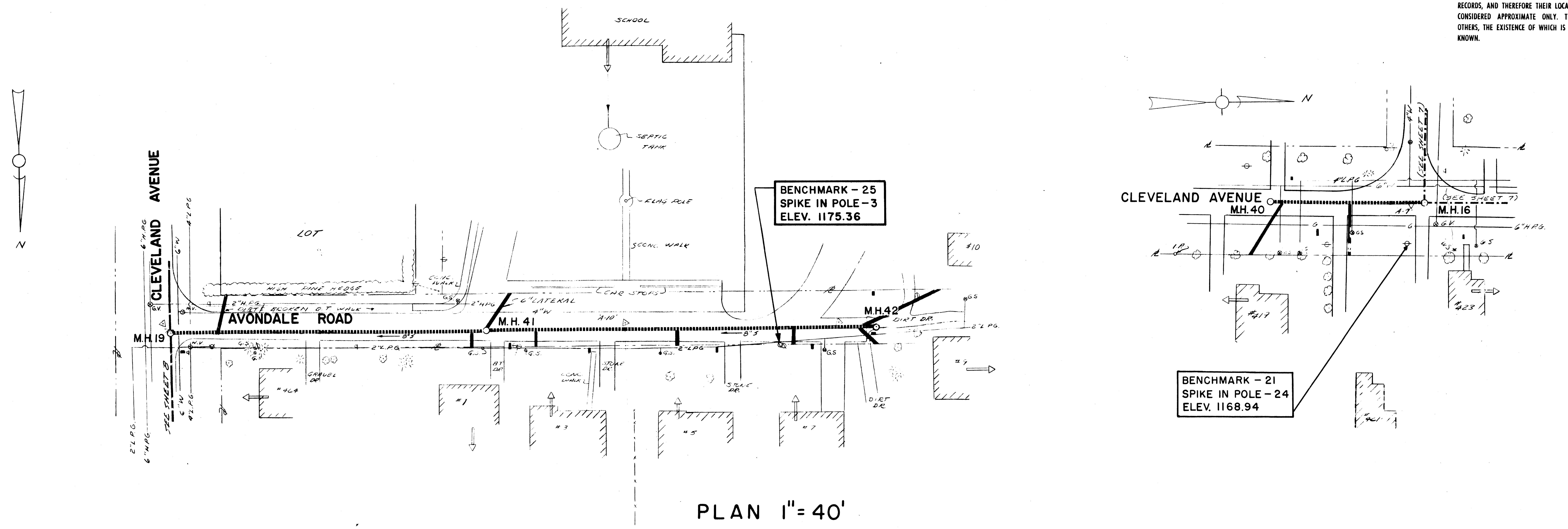
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
McKINLEY AVE. & RURAL AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO 1 SHEET 13

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'

PROFILE 1" = 5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT	G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION		3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL	WA/RC.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
AVONDALE RD. & CLEVELAND AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 14 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLAN 1"= 40'

PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.R.V.	12/17/71		W.L.A.	W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70		W.L.A.	JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams APPROVED A. Gordon Wheler

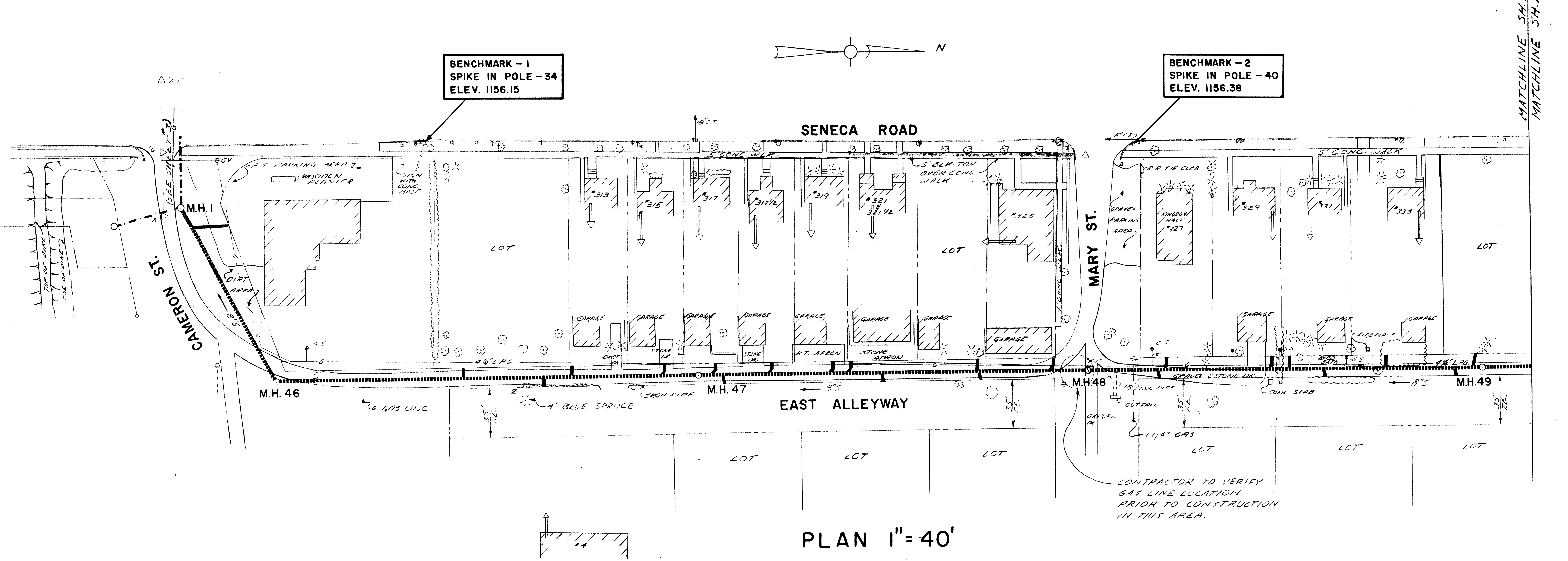
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - PARK STREET & CLEVELAND AVENUE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 15 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"=40'

PROFILE 1"=5'

AS-BUILT RECORD DRAWING
[illegible] drawings have been revised to [illegible]
[illegible] upon information furnished by Contractor [illegible] surveys [illegible] Critical dimensions should be [illegible] or additions [illegible] are completed.

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION
8" SEWER - CAMERON ST. & EAST ALLEYWAY

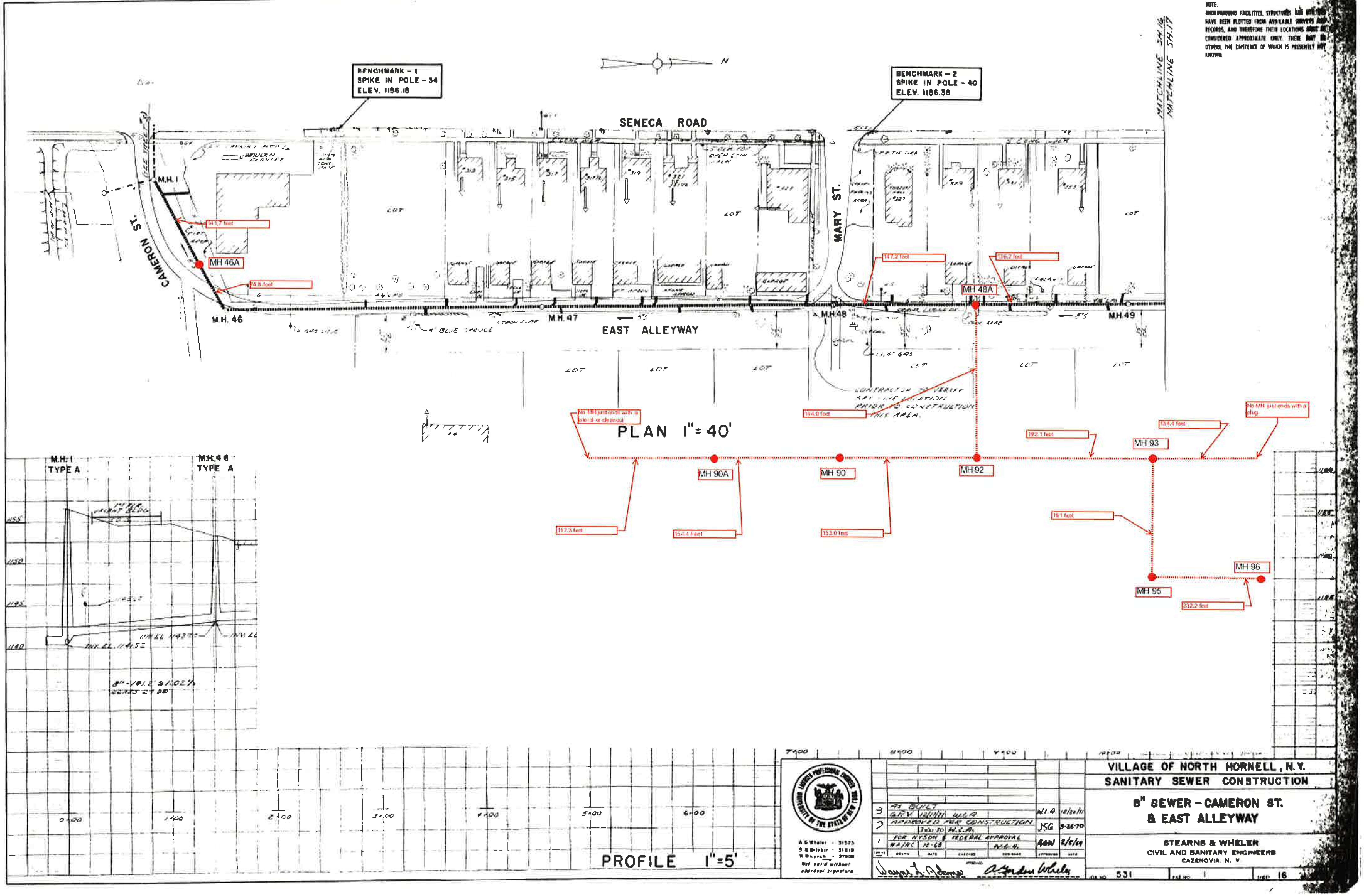
A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71		W.L.A.	W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70		W.L.A.	JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams A. Gordon Wheler

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO 1 SHEET 16



NOTE.
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

A G Wheler - 31573
S G Brinkley - 31810
W D Lynch - 37900
Not valid without approval signature

No.	By	Date	Checked	Remarks	Approved	Date
3	AS BUILT G.R.V.	12/11/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION		Tele. to W.L.A.		JSG	9-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams
APPROVED A. Gordon Wheler

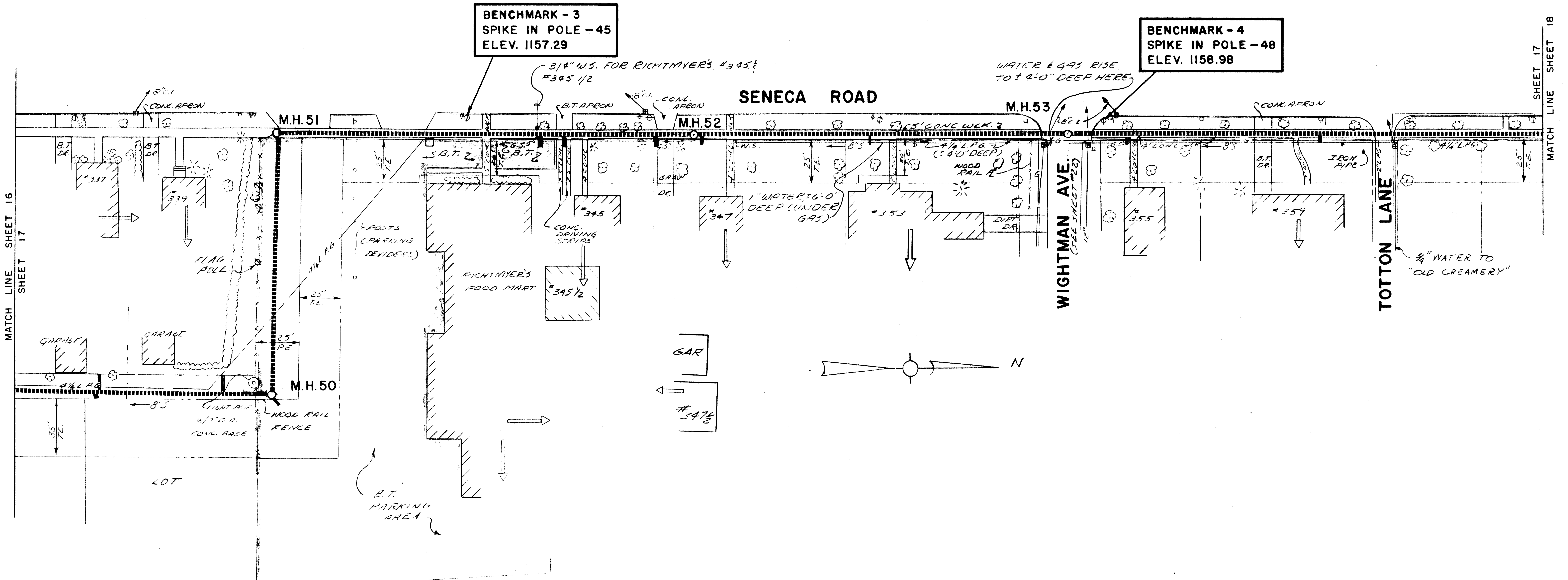
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER – CAMERON ST. & EAST ALLEYWAY

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 16

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'

PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.F.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Jones A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - EAST ALLEYWAY
& EAST SIDE SENECA ROAD

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 17 OF 2

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLAN 1"= 40'

PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

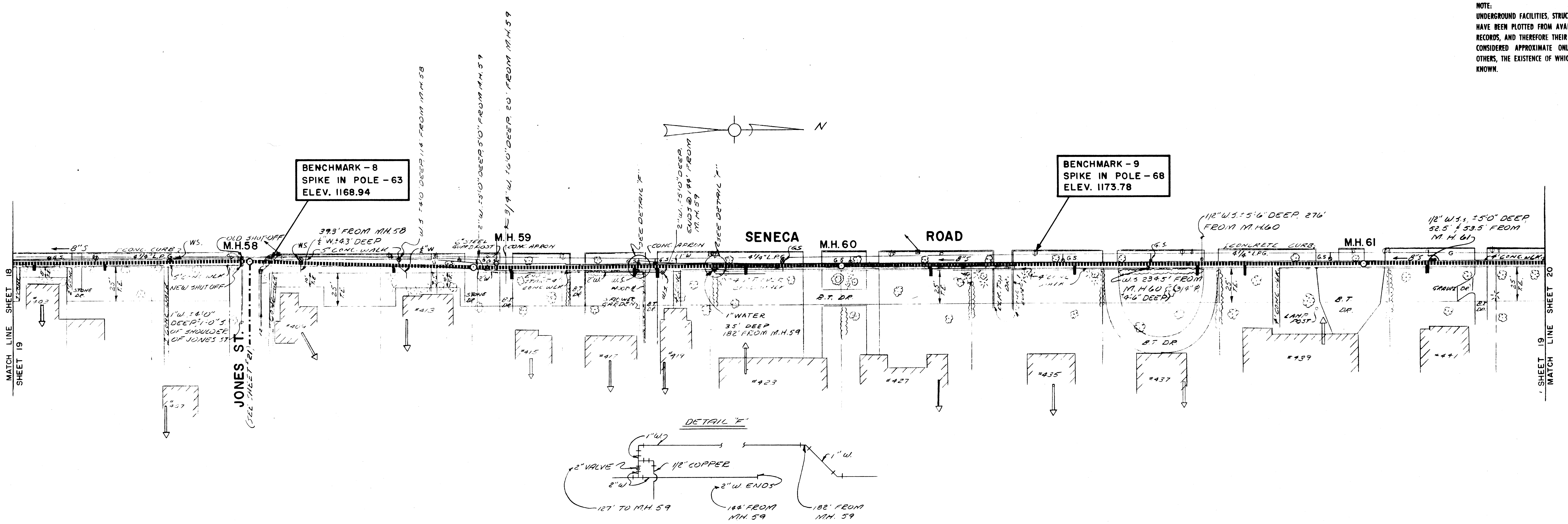
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - EAST SIDE
SENECA ROAD NEAR ELMWOOD AVE.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531
FILE NO. 1
SHEET 18

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'

[illegible] any, which occurred [illegible] Revisions are based [illegible] contemplated.

PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO					APPROVED	DATE
3	AS BUILT				W.I.A.	12/30/71
	G.P.V.	12/17/71	W.L.A.			
2	APPROVED FOR CONSTRUCTION				JSG	3-26-70
		3-20-70	W.L.A.			
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL				AGW	2/5/69
	WA/RC	12-68		W.L.A.		
	DRAWN	DATE	CHECKED	DESIGNER		

Wayne L. Adams
APPROVED
A Gordon Wheler

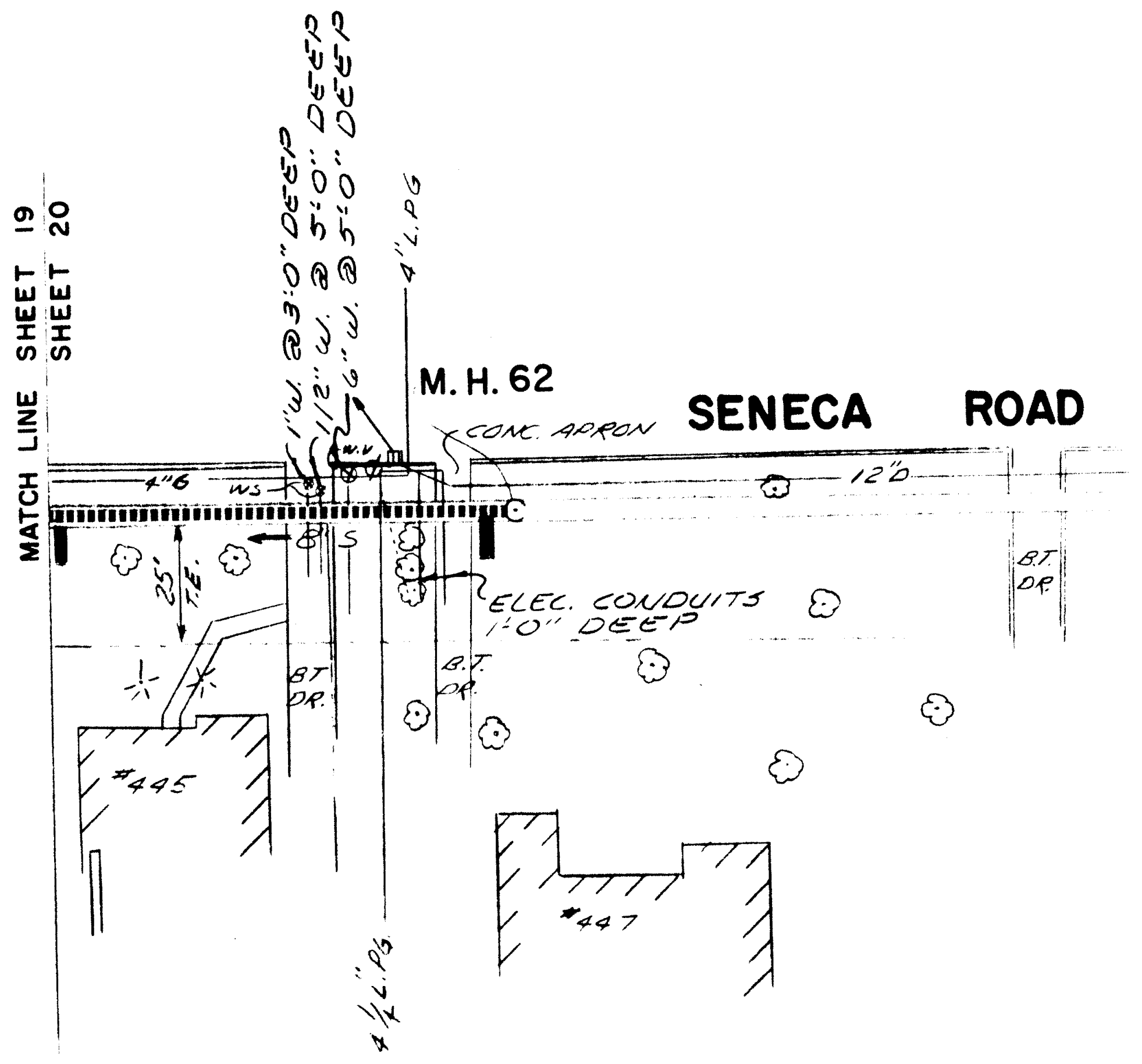
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - EAST SIDE
SENECA ROAD NEAR JONES RD.

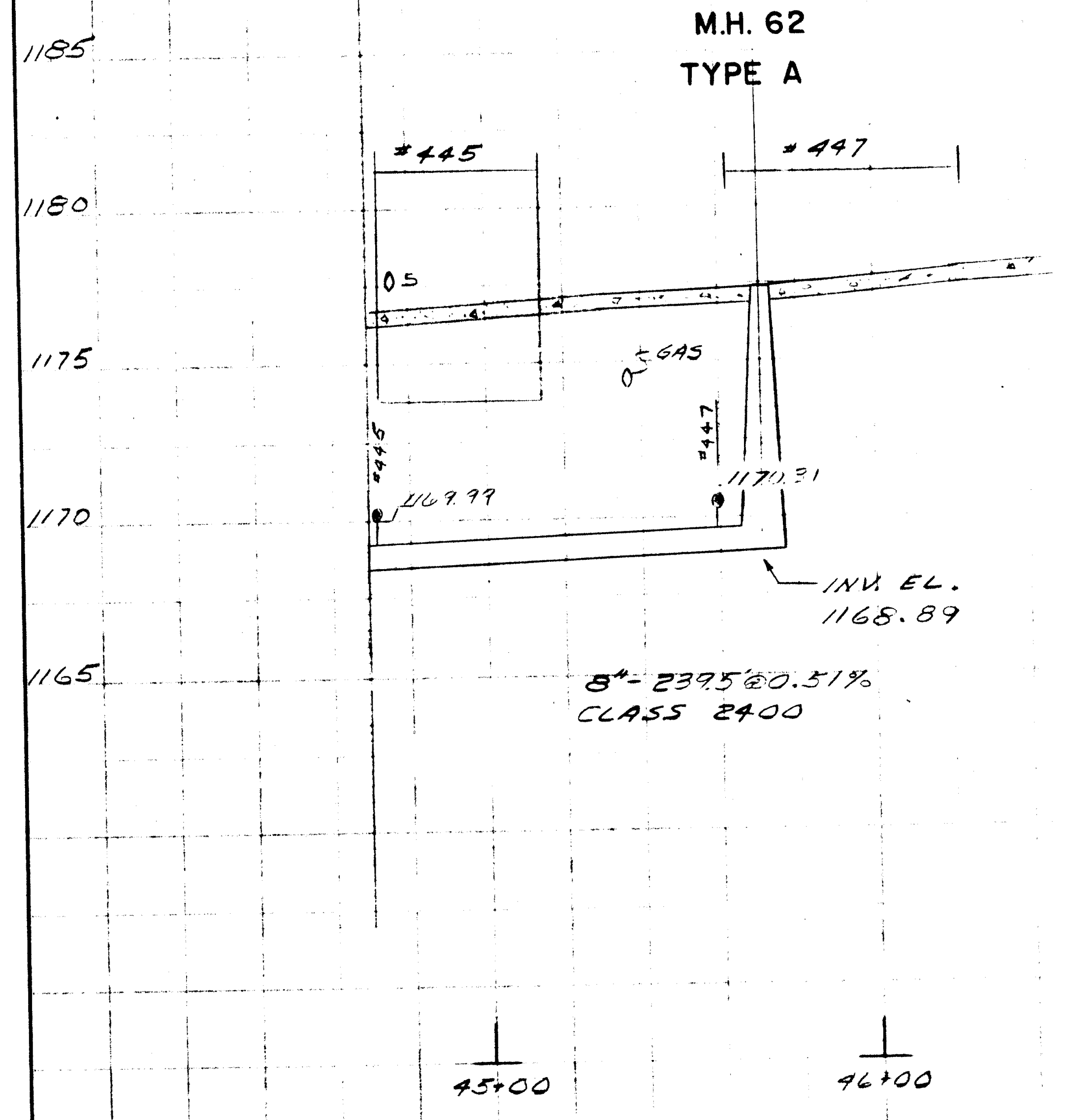
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 19

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'



PROFILE 1"=5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT	G.P.V.	12/17/71	W.L.A.		W.I.A.	12/30/71
2	APPROVED FOR CONSTRUCTION		3-20-70	W.L.A.		JSG	3-26-70
1	REPLACES SHEET 20 DATED 2/5/69	WA/RC	2/23/70		W.L.A	AGW	2/23/70

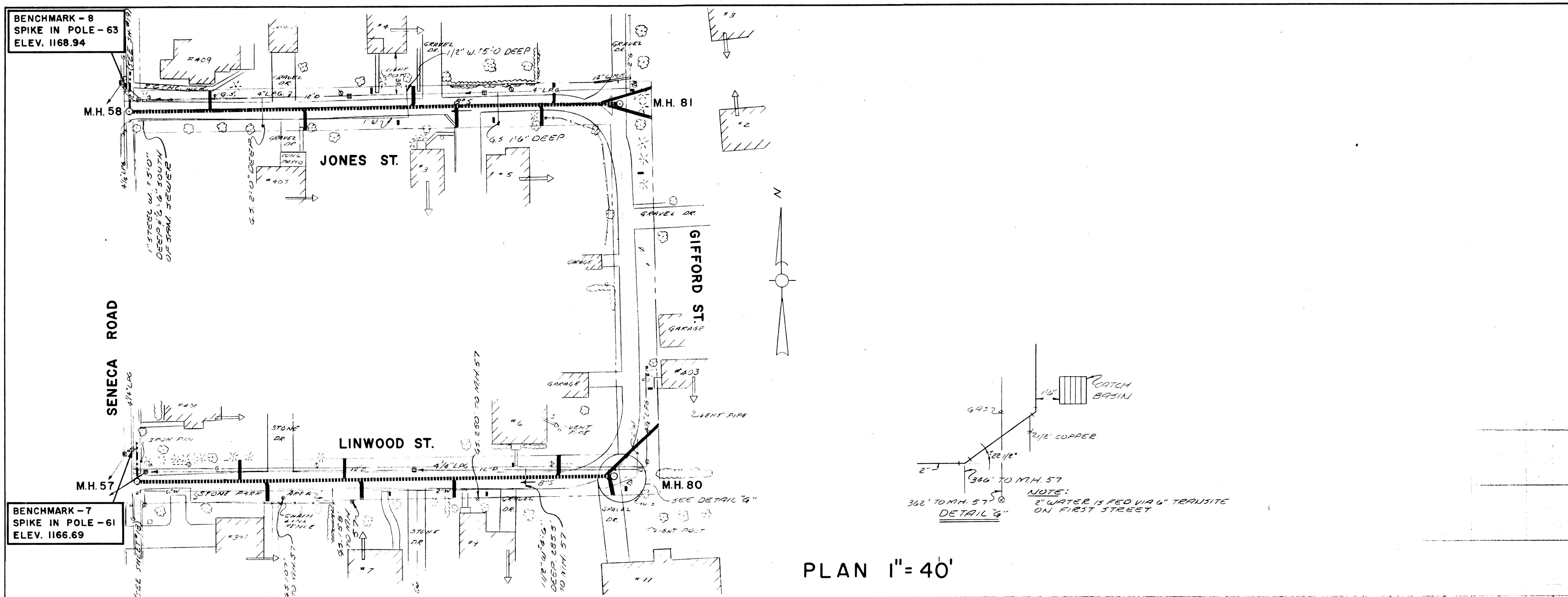
APPROVED
A Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

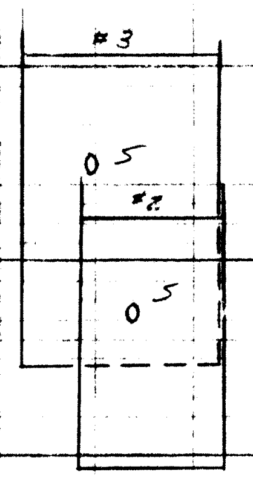
8" SEWER – EAST SIDE
SENECA ROAD

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 | FILE NO 1 | SHEET 20 OF



PLAN 1"= 40'



NOTE:
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AS BUILT RECORD DRAWING
These drawings have been revised to record changes, if any, which occurred during construction. Revisions are based upon information furnished by Contractor supplemented by as-built surveys where appropriate. Critical dimensions should be checked if problems are encountered or additional alterations are contemplated.

PROFILE 1"=5'

UNIVERSITY OF THE STATE OF NEW YORK
LICENSED PROFESSIONAL ENGINEER

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL WA/RC	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams
APPROVED
A. Gordon Wheler

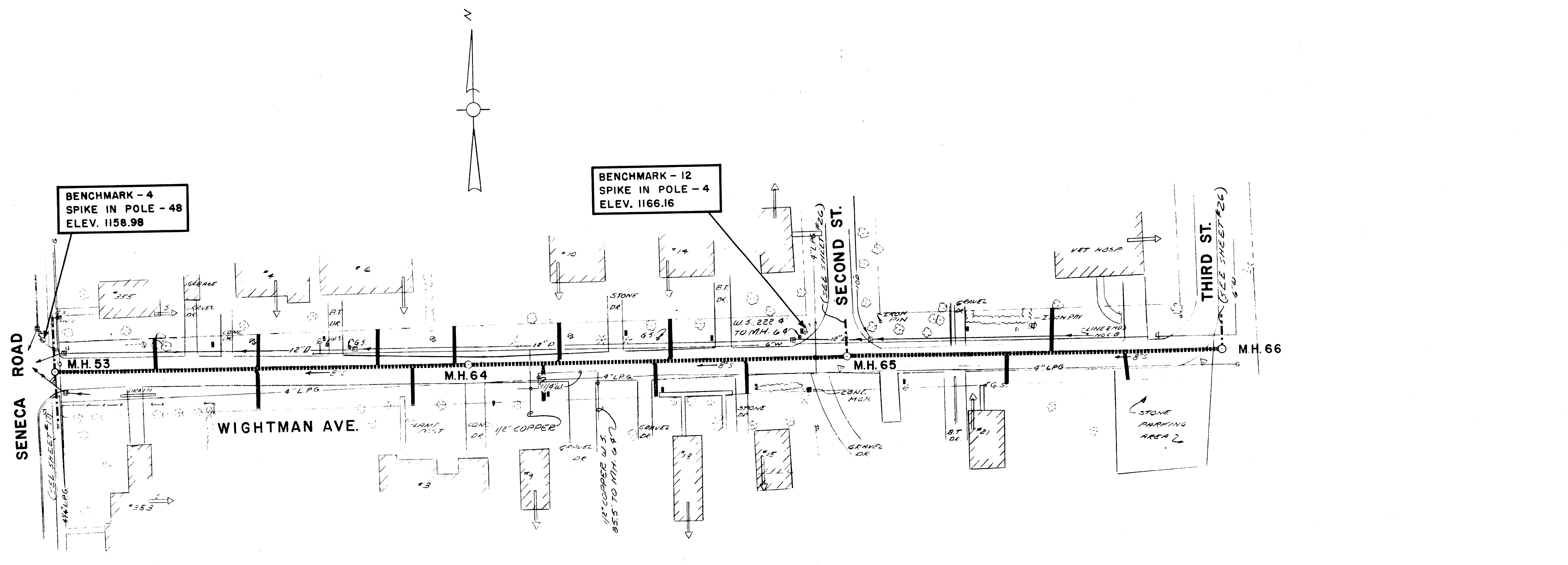
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER - JONES ST.,
GIFFORD ST. & LINWOOD ST.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO 1 SHEET 21 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'

PROFILE 1" = 5'

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams APPROVED A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
WIGHTMAN AVENUE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 22

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

AS BUILT RECORD DRAWING

[illegible] changes if any, which occurred [illegible] construction. Revisions are based [illegible] Contractor, [illegible] by as built surveys where [illegible] dimensions should be [illegible] or [illegible] contemplated.

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

Wayne L. Adams
APPROVED A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
MAPLEWOOD AVE. & FOURTH ST.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531
FILE NO 1
SHEET 23 OF

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

LICENSED PROFESSIONAL ENGINEER
UNIVERSITY OF THE STATE OF NEW YORK

A.G.Wheler - 31573
S.G.Brisbin - 31810
W.O.Lynch - 37958
Not valid without approval signature

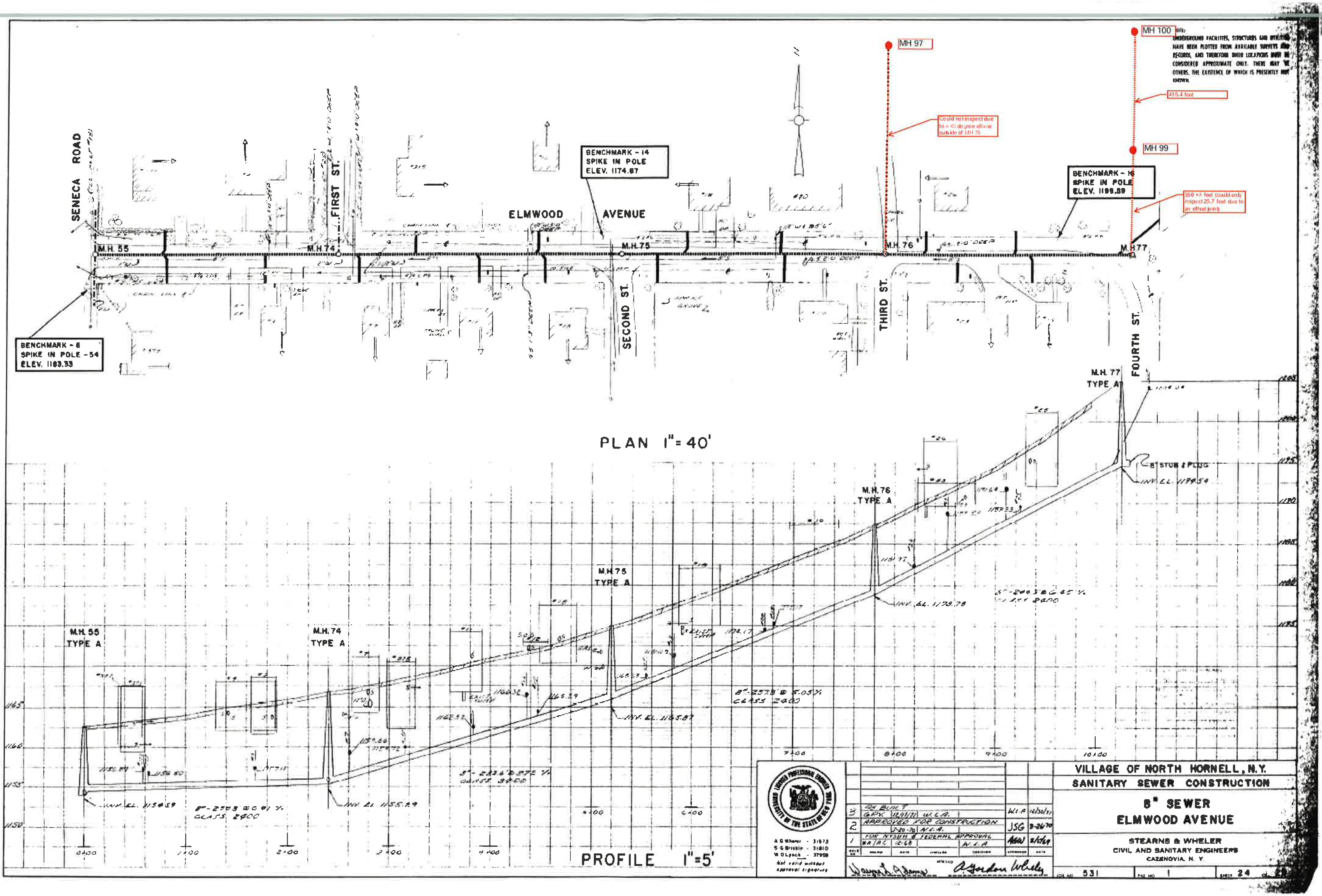
ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.V.	12/17/71		W.L.A.	W.L.A	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70		W.L.A.	JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

Wayne L. Adams
APPROVED
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION
8" SEWER
ELMWOOD AVENUE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO. 531 FILE NO. 1 SHEET 24 OF 2



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3	RE BUILT GPV. 12/21/71 W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION 3-20-70 W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL RA/RC 12-68 W.L.A.		AGW	2/1/69

A G Wheler - 31573
S G Brisbin - 31810
W D Lynch - 37958
Not valid without approval signature

Wayne L. Adams
A Gordon Wheler

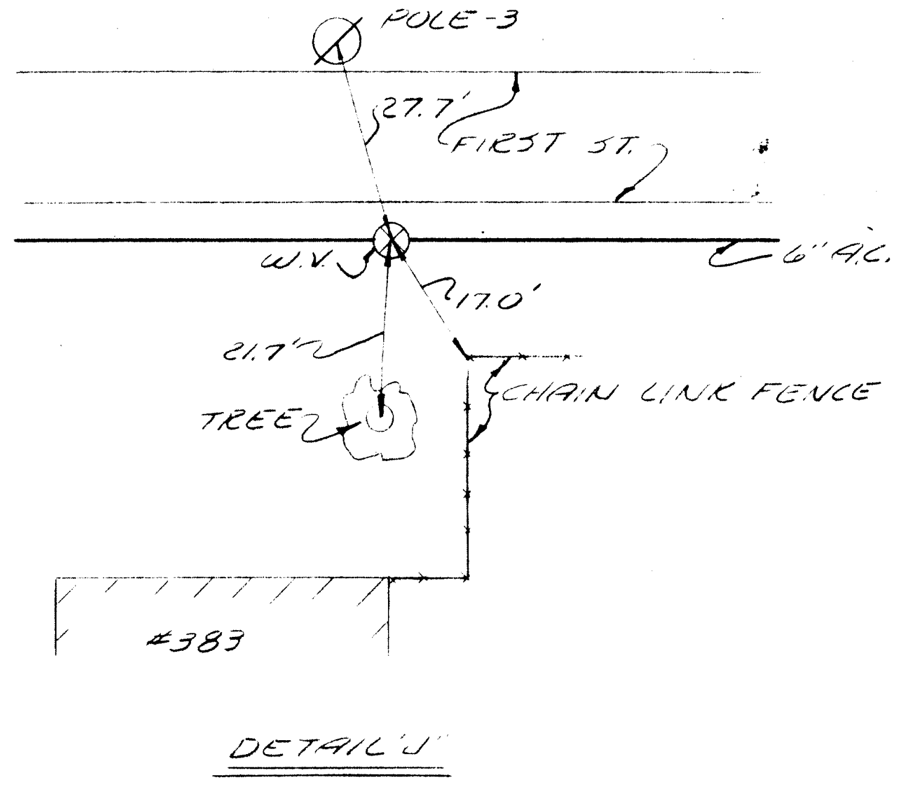
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

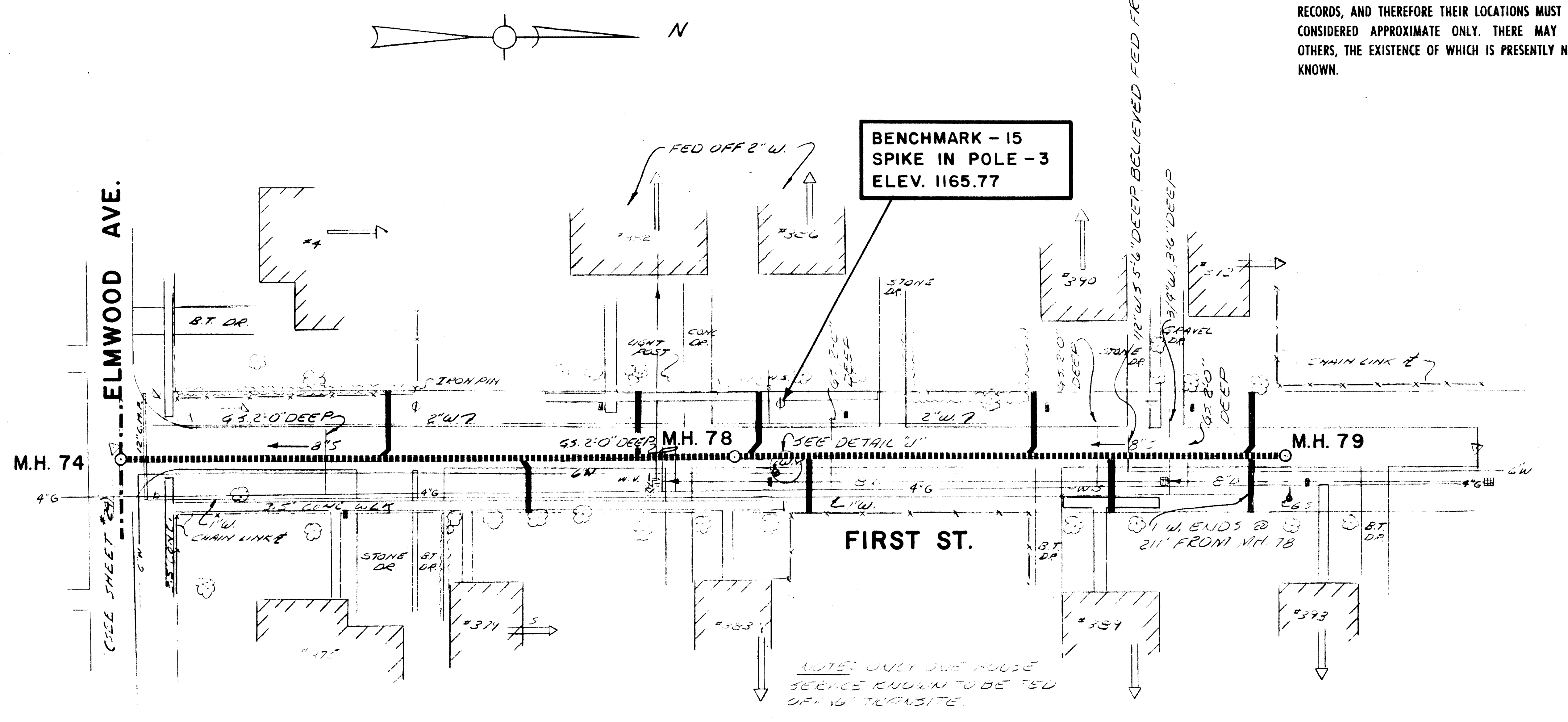
8" SEWER
ELMWOOD AVENUE

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

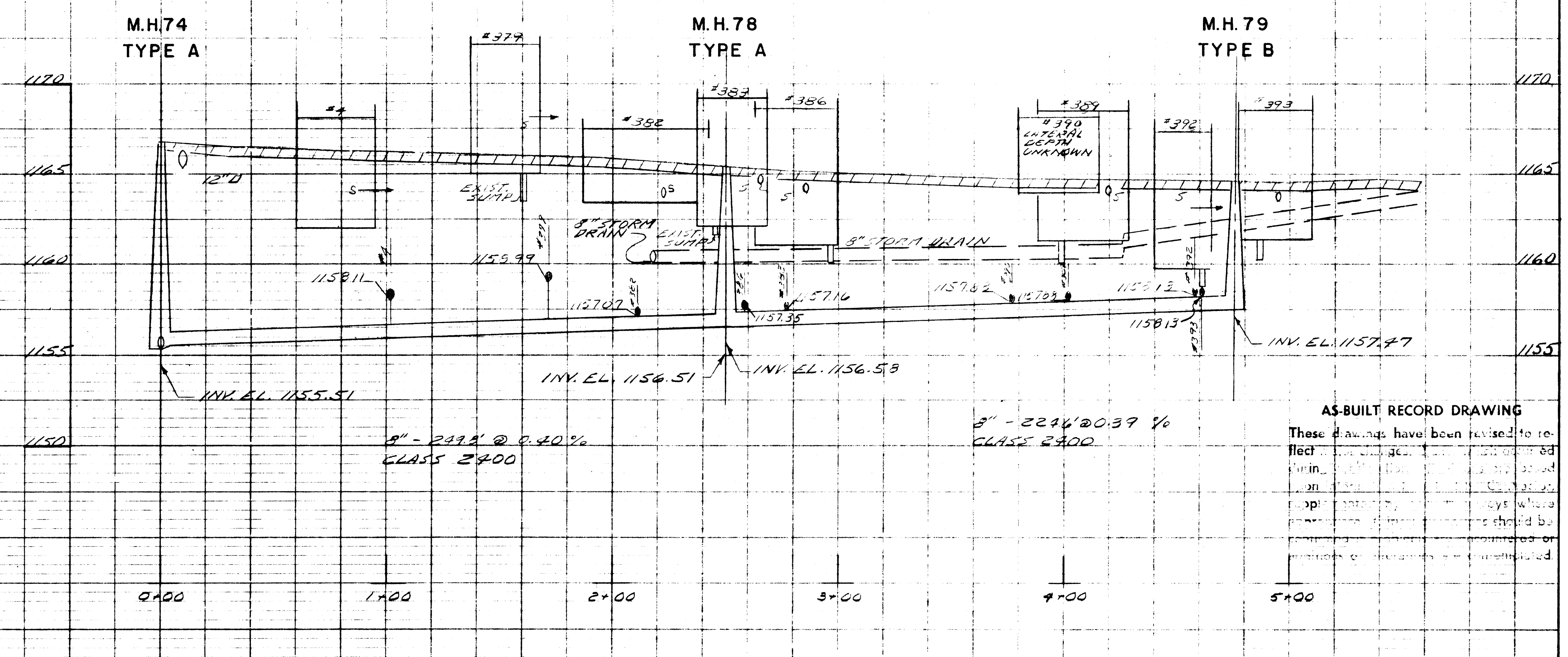
JOB NO. 531 FILE NO. 1 SHEET 24

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





PLAN 1"= 40'



AS-BUILT RECORD DRAWING

These drawings have been revised to reflect [illegible] changes [illegible] occurred during [illegible] based upon [illegible] Contractor, supplemented by [illegible] surveys where [illegible] should be [illegible] or [illegible] contemplated.

PROFILE 1"=5'

LICENSED PROFESSIONAL ENGINEER
UNIVERSITY OF THE STATE OF NEW YORK

A.G. Wheler - 31573
S.G. Brisbin - 31810
W.O. Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.R.V.	12/1/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL W.A./R.C.	12-68		W.L.A.	AGW	2/5/69

APPROVED
Wayne L. Adams
A. Gordon Wheler

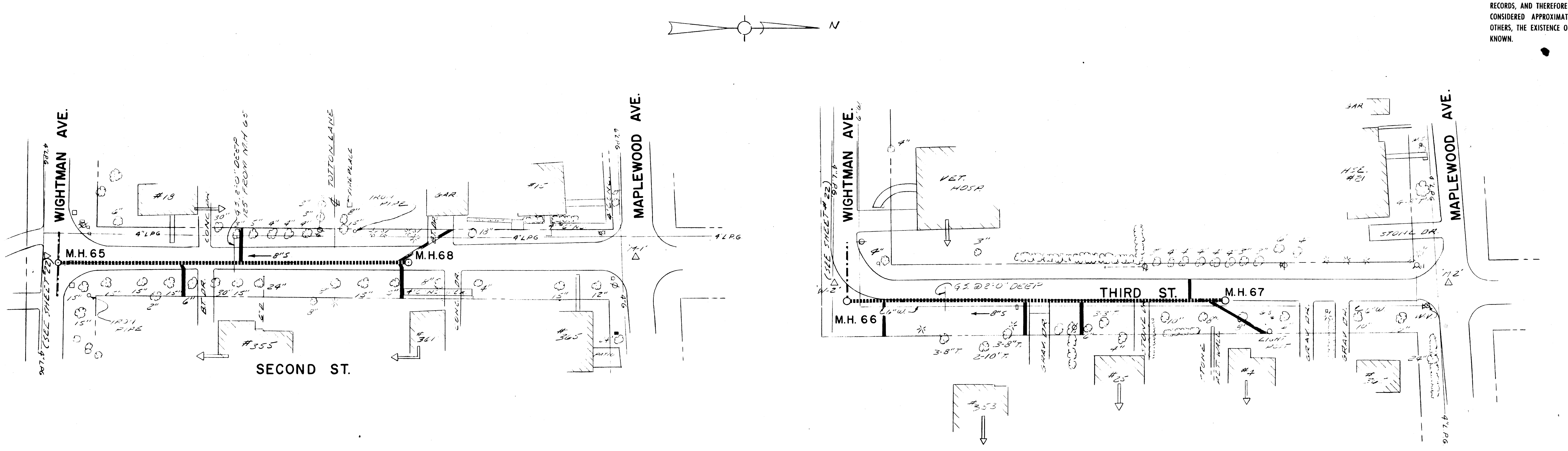
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
FIRST STREET

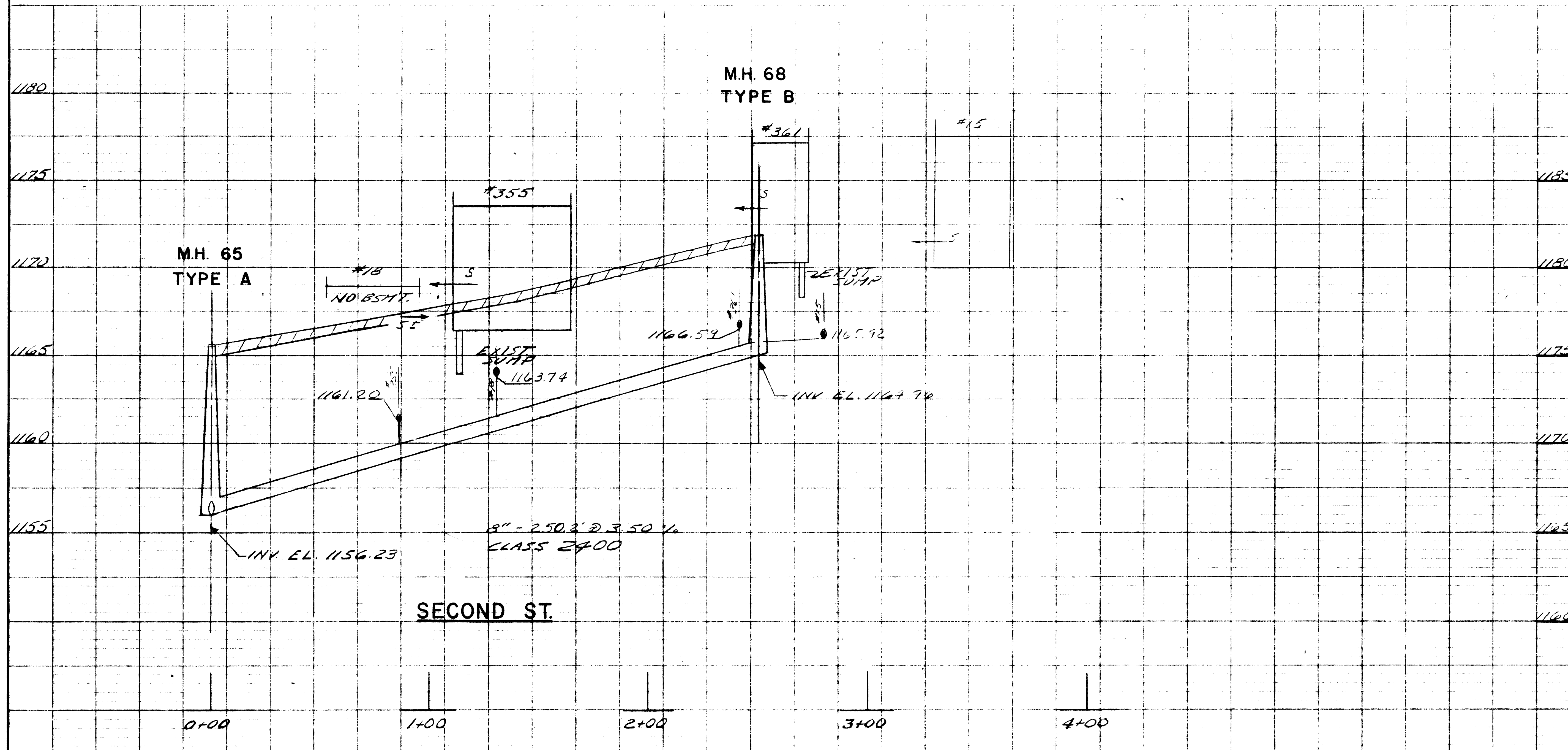
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

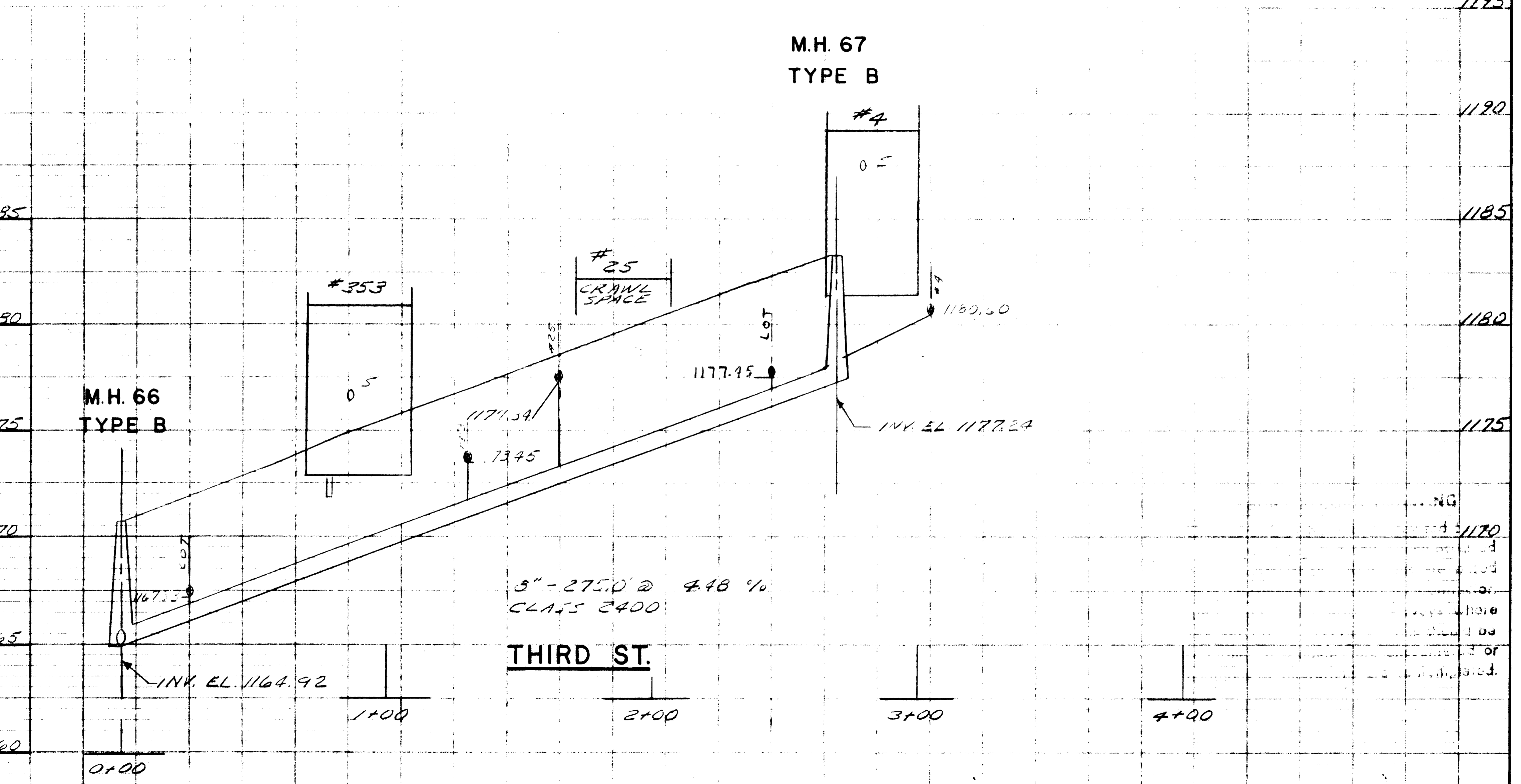
JOB NO 531 | FILE NO 1 | SHEET 25 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"= 40'





PROFILE 1"=5'

ISSUE NO		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT	G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
2	APPROVED FOR CONSTRUCTION		3-20-70	W.L.A.		JSG	3-26-70
1	FOR N.Y.S.D.H. & FEDERAL APPROVAL	WA/RC	12-68		W.L.A.	AGW	2/5/69

A.G. Wheler - 31573
S.G. Brisbin - 31810
W. O. Lynch - 37958
Not valid without approval signature

APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

8" SEWER
SECOND ST. & THIRD ST.

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 | FILE NO 1 | SHEET 26 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

A.G. Wheler - 31573
S. G. Brisbin - 31810
W. O. Lynch - 37958
Not valid without approval signature

ISSUE NO					APPROVED	DATE
4	AS BUILT G.P.V.	12/17/71	W.L.A.		W.L.A.	12/30/71
3	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
2	REPLACES SHEET 27 DATED 2-5-69 W.L.A.	2/23/70		W.L.A.	AGW	2-23-70
	DRAWN	DATE	CHECKED	DESIGNER		

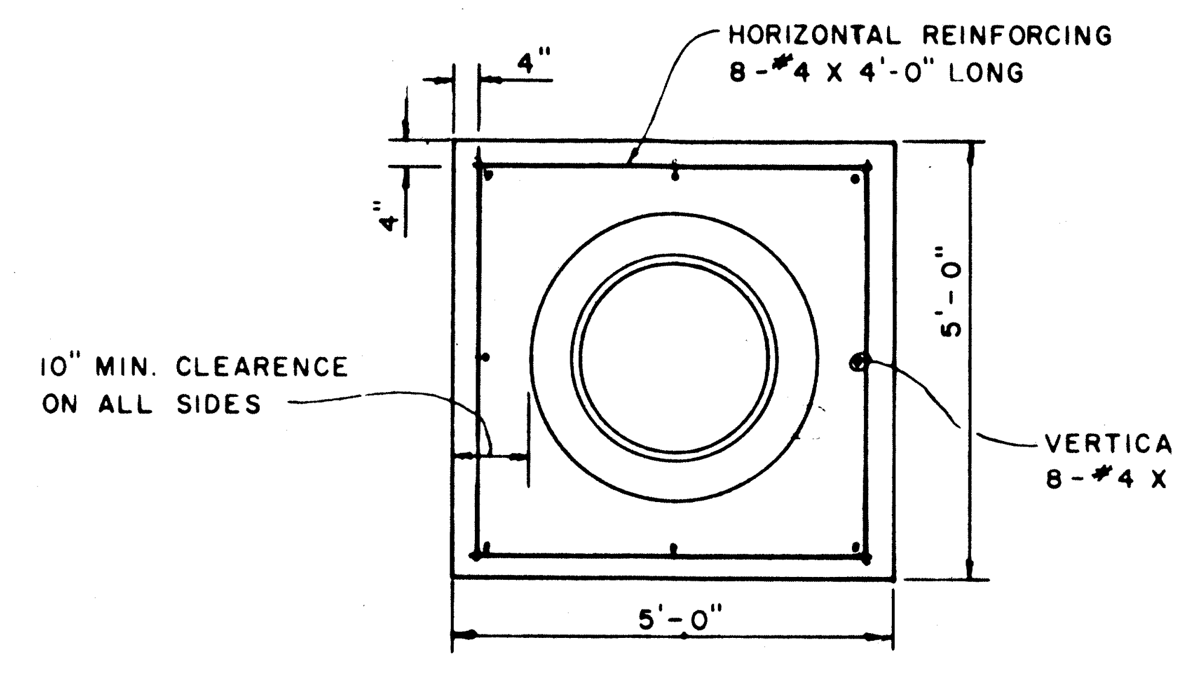
APPROVED
Wayne L. Adams   A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

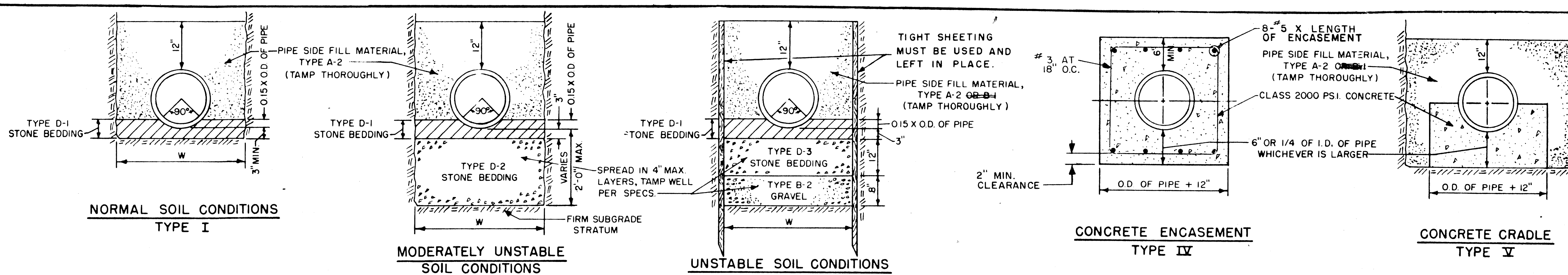
8" SEWER — BOWEN ST. & COUNTRY CLUB ACCESS ROAD

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 FILE NO 1 SHEET 27 OF 29



CONCRETE COLLAR



NORMAL SOIL CONDITIONS
TYPE I

MODERATELY UNSTABLE
SOIL CONDITIONS
TYPE II

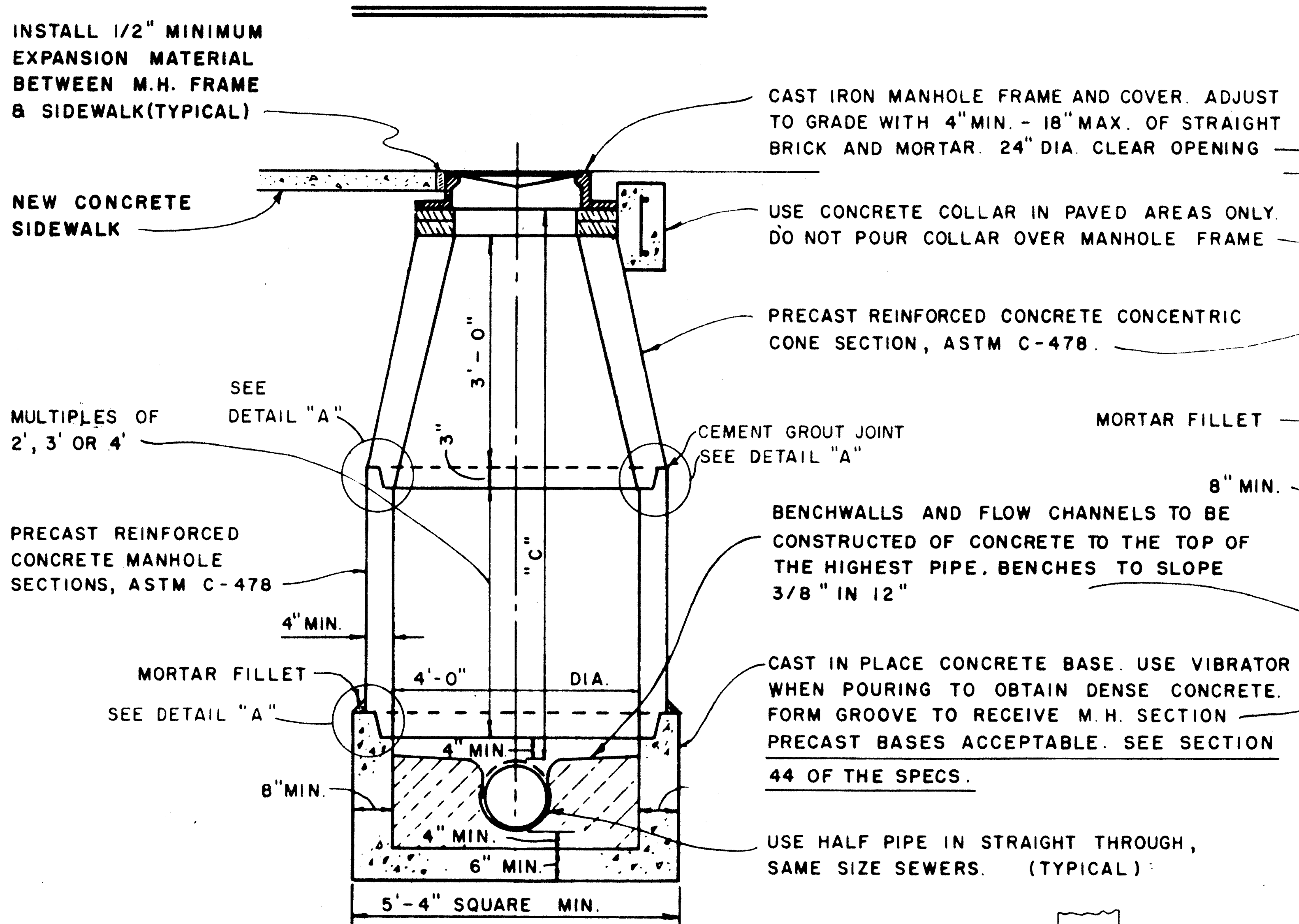
UNSTABLE SOIL CONDITIONS
TYPE III

CONCRETE ENCASEMENT
TYPE IV

CONCRETE CRADLE
TYPE V

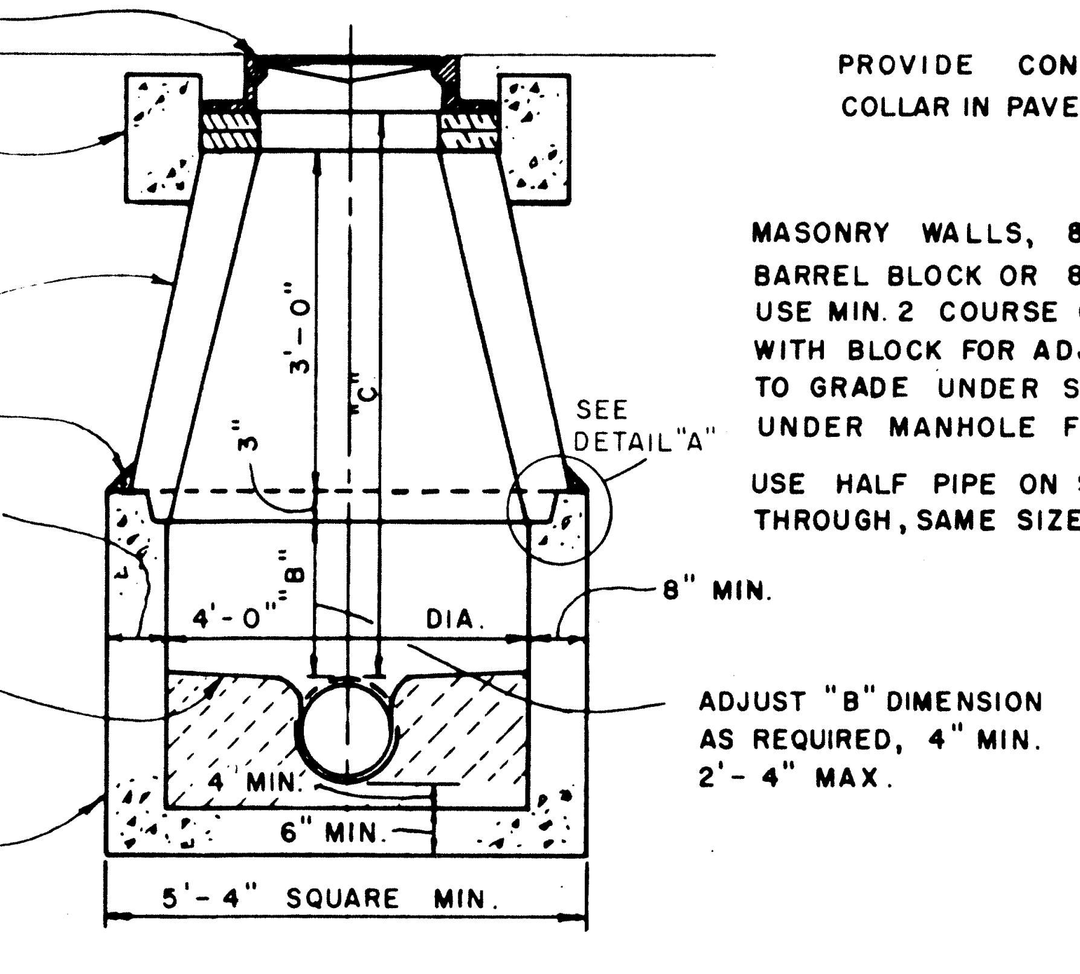
PIPE FOUNDATION DETAILS

(REFER TO SPECS, SECTION 43 ÷ 2)


INSTALL 1/2" MINIMUM
EXPANSION MATERIAL
BETWEEN M.H. FRAME
& SIDEWALK (TYPICAL)
NEW CONCRETE
SIDEWALK
CAST IRON MANHOLE FRAME AND COVER. ADJUST
TO GRADE WITH 4" MIN. - 18" MAX. OF STRAIGHT
BRICK AND MORTAR. 24" DIA. CLEAR OPENING
USE CONCRETE COLLAR IN PAVED AREAS ONLY.
DO NOT POUR COLLAR OVER MANHOLE FRAME
PRECAST REINFORCED CONCRETE CONCENTRIC
CONE SECTION, ASTM C-478.
3'-0"
SEE
DETAIL "A"
MULTIPLES OF
2', 3' OR 4'
3"
CEMENT GROUT JOINT
SEE DETAIL "A"
"C"
BENCHWALLS AND FLOW CHANNELS TO BE
CONSTRUCTED OF CONCRETE TO THE TOP OF
THE HIGHEST PIPE, BENCHES TO SLOPE
3/8" IN 12"
PRECAST REINFORCED
CONCRETE MANHOLE
SECTIONS, ASTM C-478
4" MIN.
MORTAR FILLET
SEE DETAIL "A"
4'-0" DIA.
CAST IN PLACE CONCRETE BASE. USE VIBRATOR
WHEN POURING TO OBTAIN DENSE CONCRETE.
FORM GROOVE TO RECEIVE M.H. SECTION
PRECAST BASES ACCEPTABLE. SEE SECTION
44 OF THE SPECS.
4" MIN.
8" MIN.
4" MIN.
6" MIN.
USE HALF PIPE IN STRAIGHT THROUGH,
SAME SIZE SEWERS. (TYPICAL)
5'-4" SQUARE MIN.

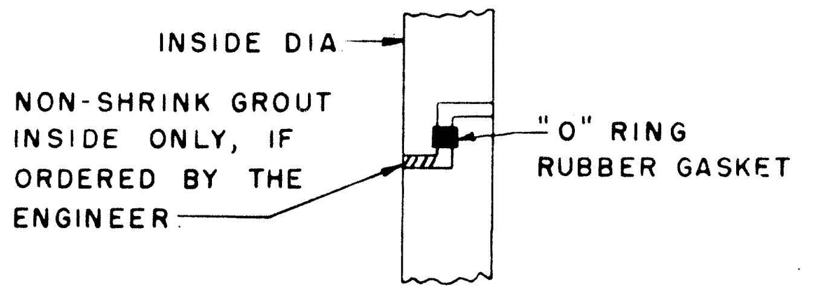
TYPE "A" MANHOLE

"C" DIMENSION = 6'-0" OR GREATER

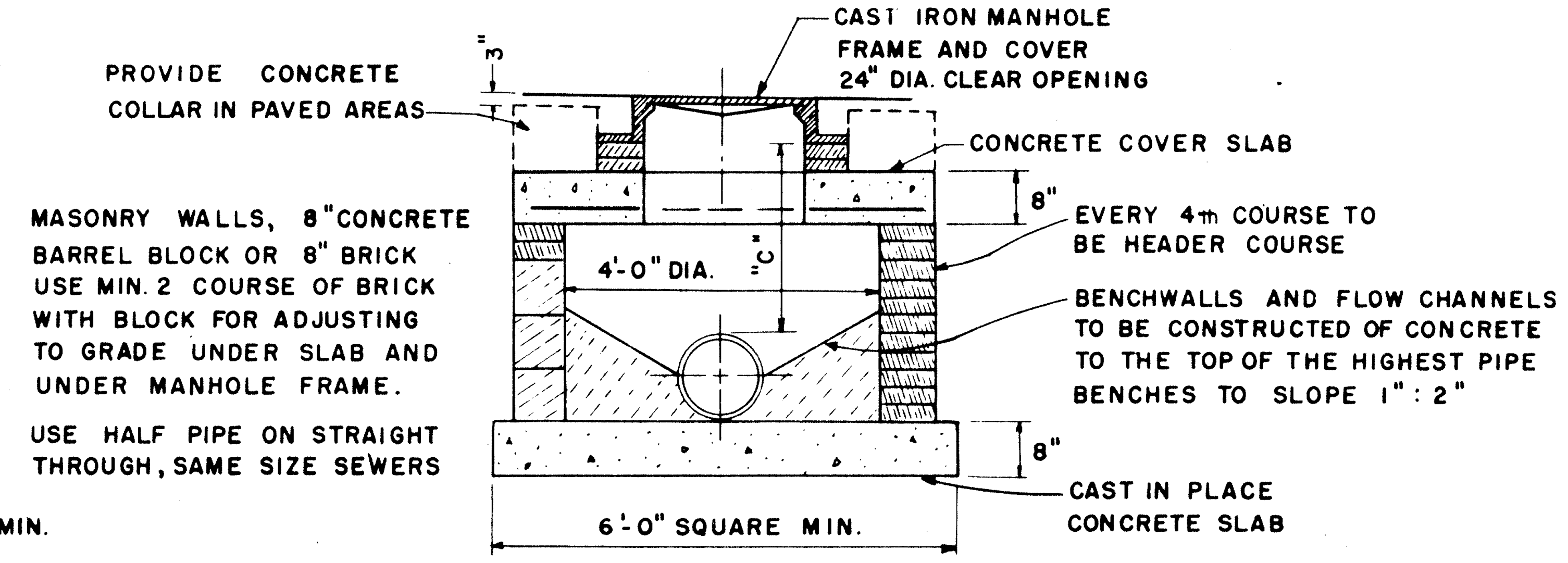


TYPE "B" MANHOLE

"C" DIMENSION = 4'-0" TO 5'-11"

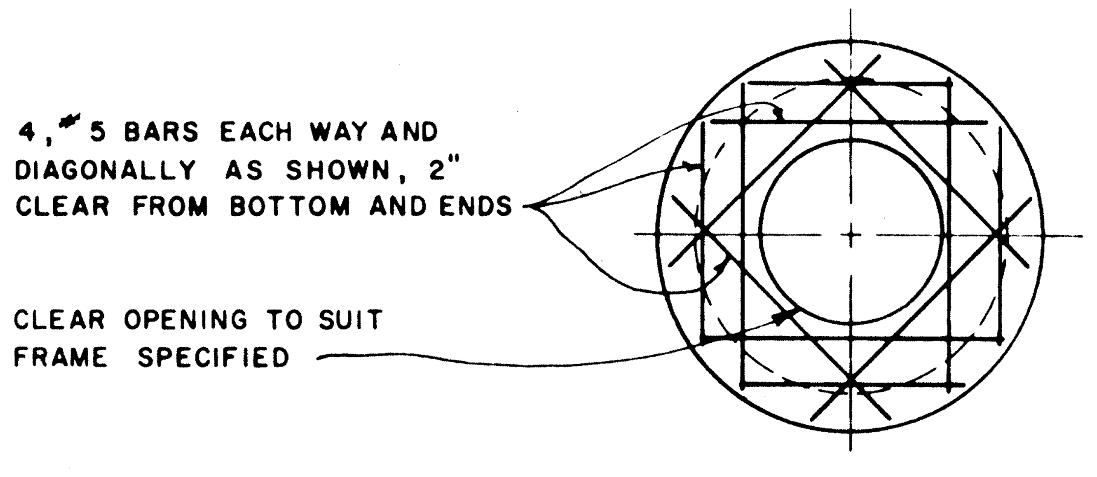


DETAIL "A"

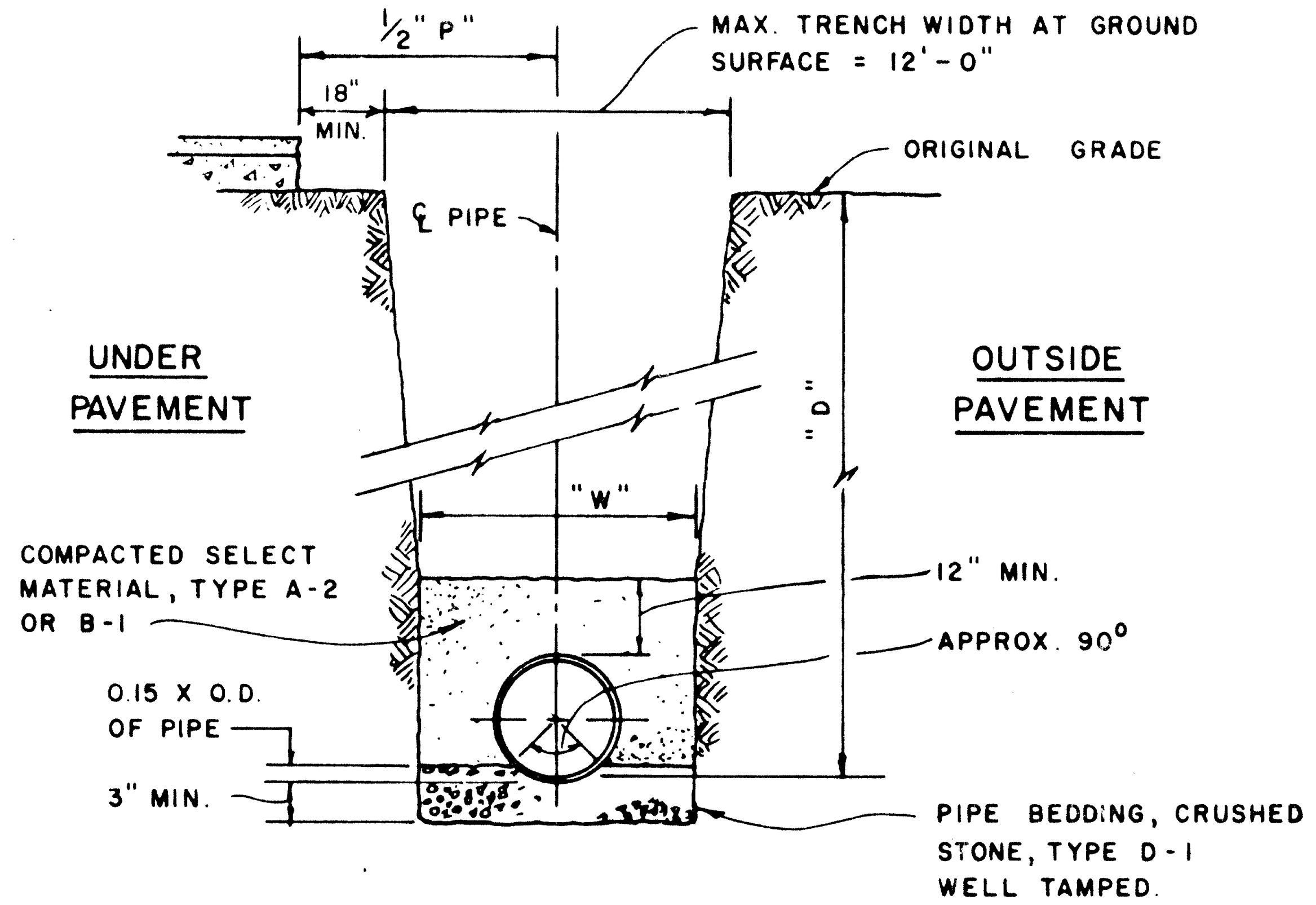


TYPE "C" MANHOLE

"C" DIMENSION = 4'-0" OR LESS

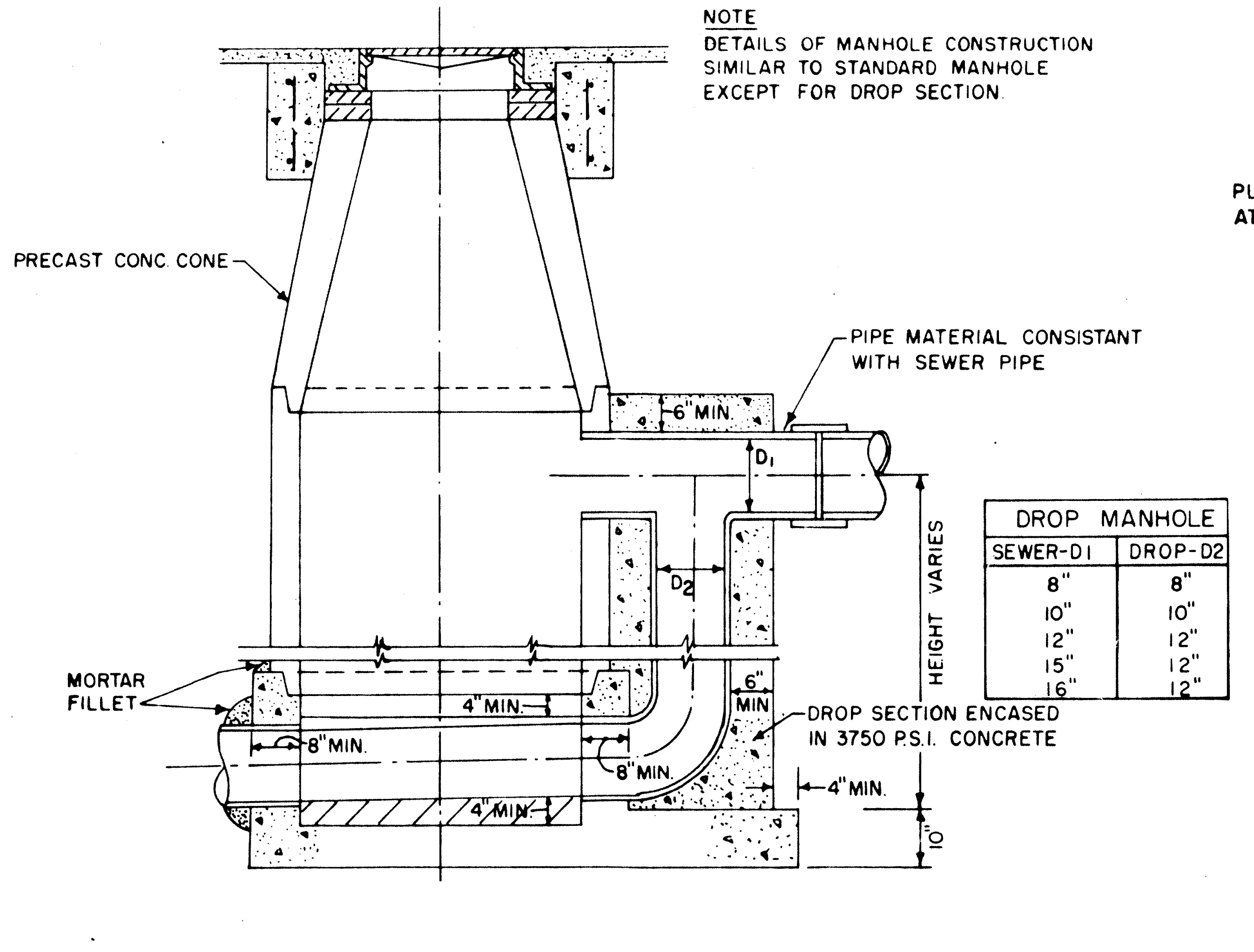


TYPE "C"
COVER SLAB



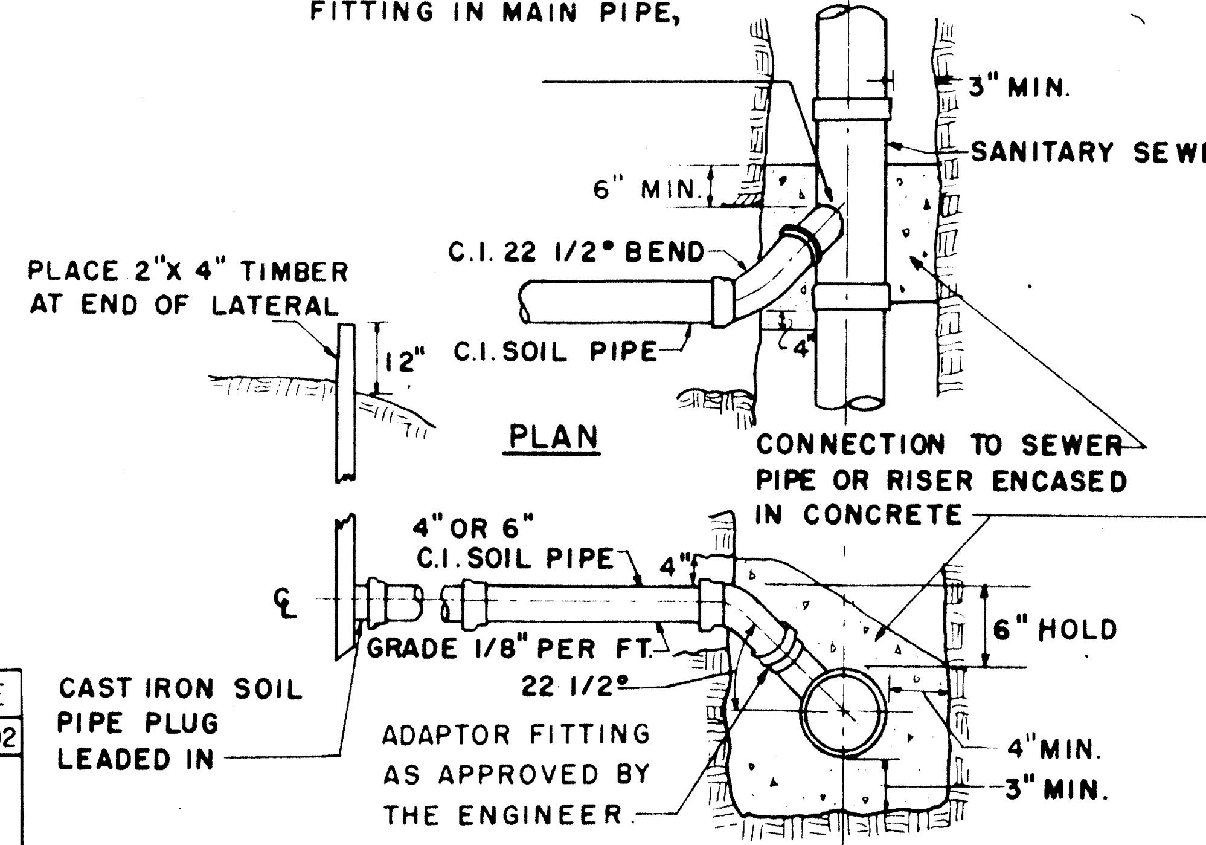
TRENCH WIDTH EXCAVATION LIMITS			
INTERNAL DIAMETER OF PIPE	"W" WIDTH OF TRENCH		
	MAX.	MIN.	
4"-6"	3'-2"	2'-0"	"W" - TRENCH WIDTH AT TOP OF PIPE.
8"	3'-4"	2'-2"	"P" - PAVEMENT REPLACEMENT WIDTH.
10"	3'-6"	2'-4"	"D" - DEPTH OF PIPE FROM ORIGINAL GRADE TO INVERT OF PIPE.
12"	3'-9"	2'-7"	
15"	4'-1"	2'-11"	
16"	4'-2"	3'-0"	

TRENCH CROSS SECTION



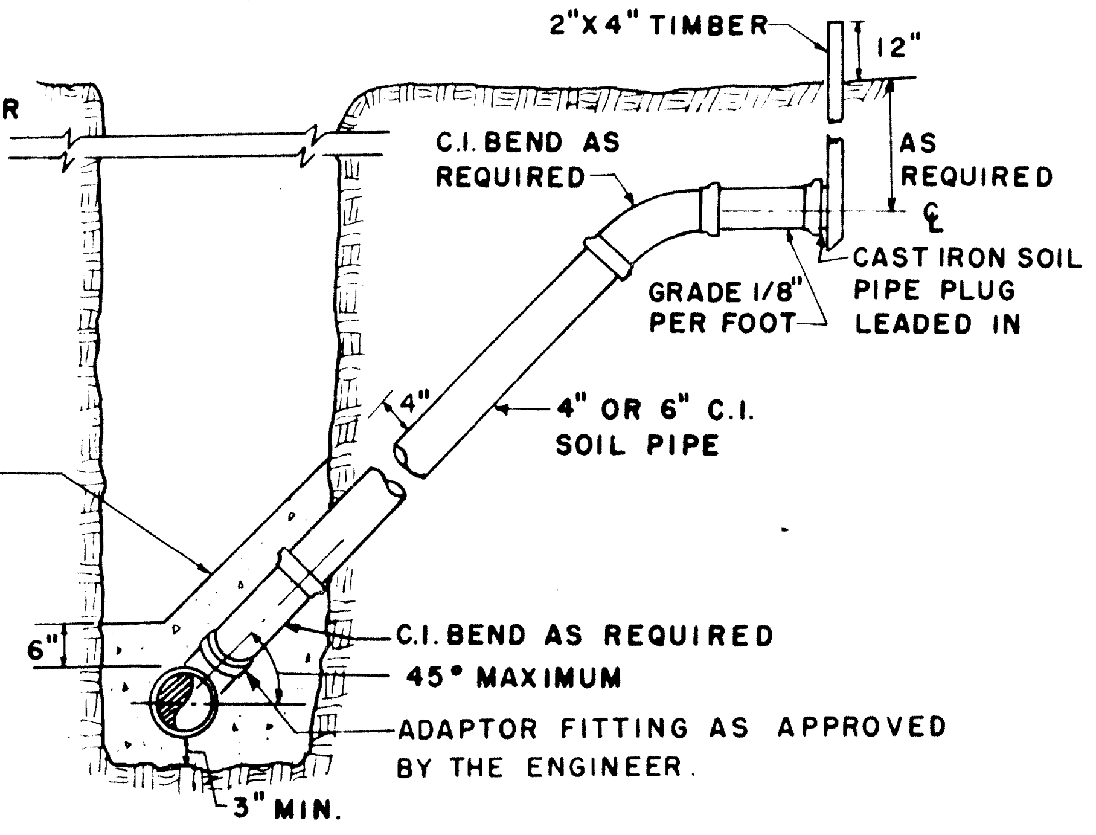
DROP MANHOLE	
SEWER-D1	DROP-D2
8"	8"
10"	10"
12"	12"
15"	12"
16"	12"

TYPICAL DROP SECTION



TYPICAL LATERAL

NOT TO SCALE



SPECIAL RISER

NOT TO SCALE

NOTE: NO SPECIAL RISERS SHALL BE INSTALLED UNLESS DIRECTED BY THE ENGINEER OR WHERE SHOWN ON THE DRAWINGS.

GENERAL NOTES

1. ANY ROCK ENCOUNTERED SHALL BE TRIMMED BACK 12" FROM THE OUTSIDE OF THE PIPE ON EACH SIDE OF THE TRENCH AND 6" FROM THE OUTSIDE OF THE PIPE ACROSS THE BOTTOM OF THE TRENCH.
2. IN CONCRETE BLOCK STRUCTURES, PROVIDE FOUR, (4), PREFABRICATED 8-S DUROWALL REINFORCING UNITS EVERY SECOND COURSE OF BLOCK. TRIM AS REQUIRED FOR A 6" LAP.
3. ALL CONCRETE BASES TO BE 3750 p.s.i CONCRETE.
4. NO DETAILS ARE DRAWN TO SCALE
5. ALUMINUM LADDERS TO BE SUPPLIED FOR MANHOLES AS DETAILED IN SPECIFICATIONS

LICENSED PROFESSIONAL ENGINEER
UNIVERSITY OF THE STATE OF NEW YORK

A G Wheler - 31573
S G Brisbin - 31810
W O Lynch - 37958
Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	AS BUILT G.P.Y.	12/17/71	W.L.A.		W.L.A	12/30/71
2	APPROVED FOR CONSTRUCTION	3-20-70	W.L.A.		JSG	3-26-70
1	FOR NYSDH & FEDERAL APPROVAL RC	1/16/69			AGW	2/5/69

Wayne L. Adams
APPROVED
A. Gordon Wheler

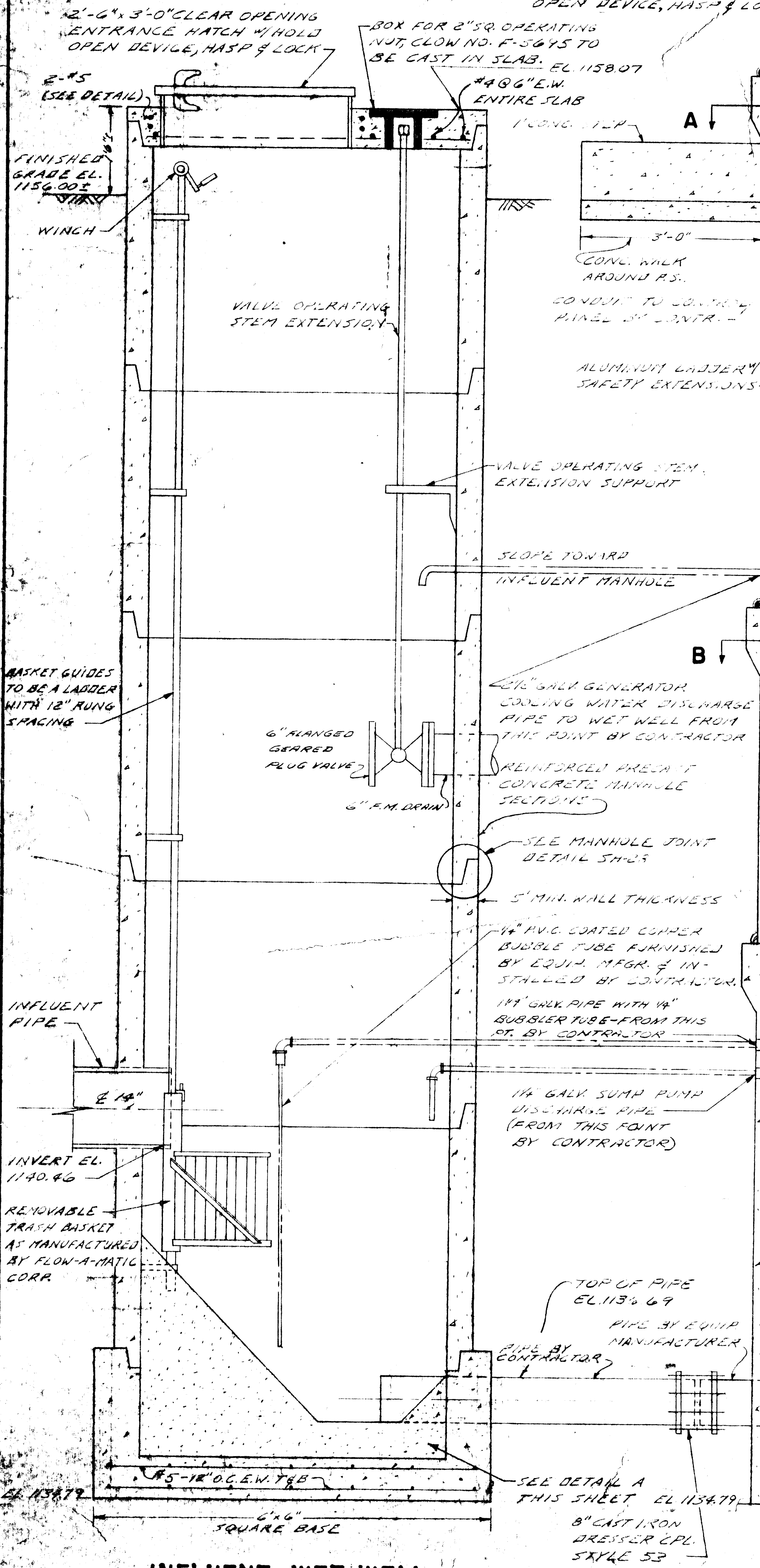
VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

MANHOLE & TRENCHING DETAILS
16" SEWER & SMALLER

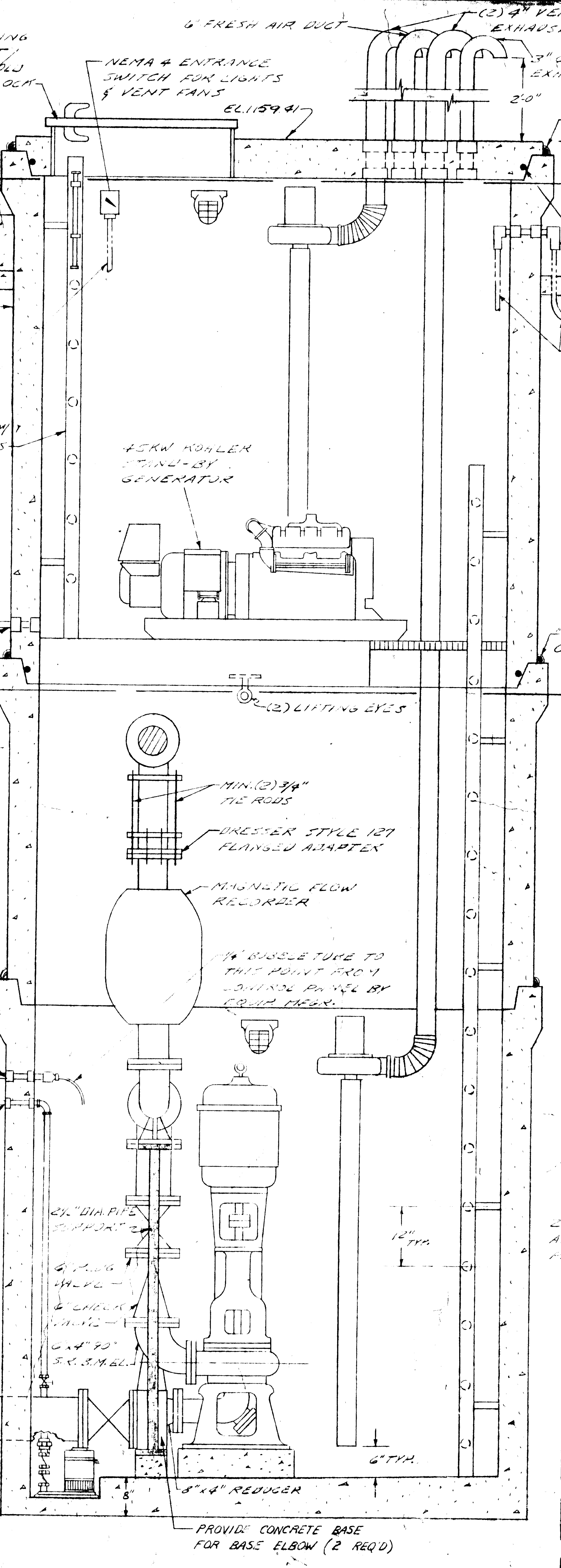
STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N. Y.

JOB NO 531 | FILE NO 1 | SHEET 23 OF 29

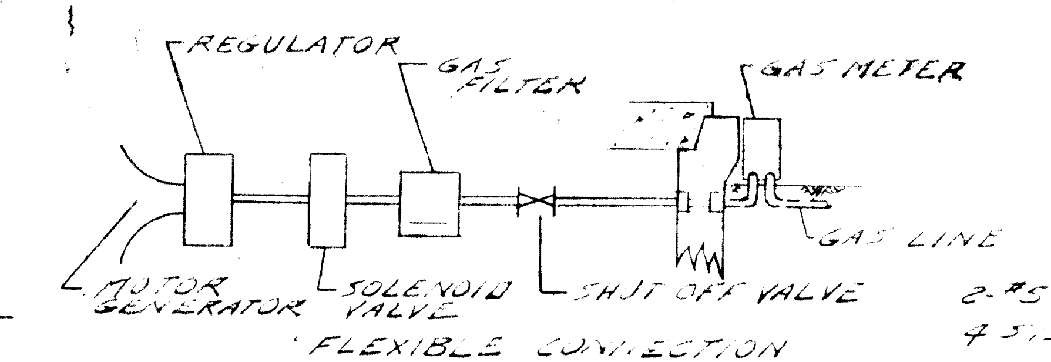
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.


2'-6"x 3'-0" CLEAR OPENING ENTRANCE HATCH W/HOLD OPEN DEVICE, HASP & LOCK
BOX FOR 2" SQ. OPERATING NUT, CLOW NO. F-5695 TO BE CAST IN SLAB.
EL. 1158.07
2-#5 (SEE DETAIL)
#4@6" E.W. ENTIRE SLAB
FINISHED GRADE EL. 1156.00±
WINCH
VALVE OPERATING STEM EXTENSION
VALVE OPERATING STEM EXTENSION SUPPORT
SLOPE TOWARD INFLUENT MANHOLE
BASKET GUIDES TO BE A LADDER WITH 12" RUNG SPACING
6" FLANGED GEARED PLUG VALVE
6" F.M. DRAIN
2½" GALV. GENERATOR COOLING WATER DISCHARGE PIPE TO WET WELL FROM THIS POINT BY CONTRACTOR
REINFORCED PRECAST CONCRETE MANHOLE SECTIONS
SEE MANHOLE JOINT DETAIL SH-29
5" MIN. WALL THICKNESS
¼" P.V.C. COATED COPPER BUBBLE TUBE FURNISHED BY EQUIP. MFGR. & INSTALLED BY CONTRACTOR.
1¼" GALV. PIPE WITH ¼" BUBBLER TUBE-FROM THIS PT. BY CONTRACTOR
INFLUENT PIPE
℄ 14"
INVERT EL. 1140.46
1¼" GALV. SUMP PUMP DISCHARGE PIPE (FROM THIS POINT BY CONTRACTOR)
REMOVABLE TRASH BASKET AS MANUFACTURED BY FLOW-A-MATIC CORP.
TOP OF PIPE EL. 1136.69
PIPE BY EQUIP. MANUFACTURER
PIPE BY CONTRACTOR
#5-12" O.C.E.W. T&B
EL. 1134.79
6'x6' SQUARE BASE
SEE DETAIL A THIS SHEET
EL. 1134.79
8" CAST IRON DRESSER CPL. STYLE 53
B

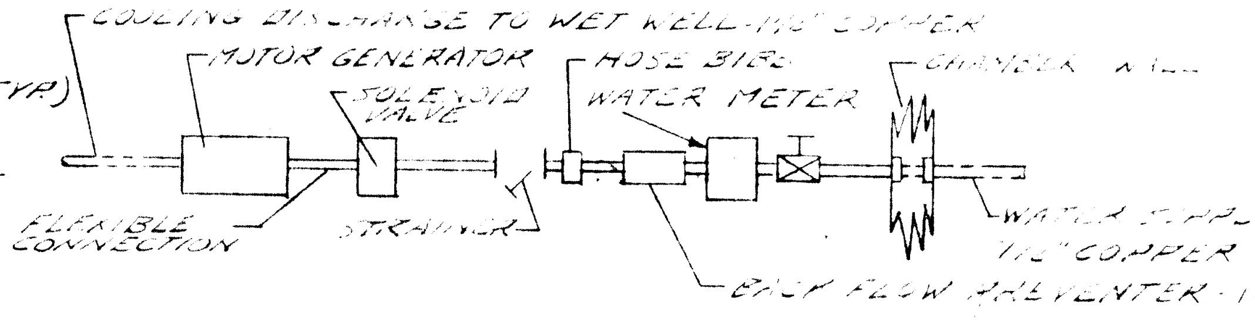
INFLUENT WET WELL
SCALE: 3/4"=1'


2'-6" x 3'-0" CLEAR OPENING INSULATED, RAINTIGHT ENTRANCE HATCH W/ HOLD OPEN DEVICE, HASP & LOCK
6" FRESH AIR DUCT
(2) 4" VENT FAN EXHAUST DUCT.
3" GENERATOR EXHAUST DUCT
NEMA 4 ENTRANCE SWITCH FOR LIGHTS & VENT FANS
EL. 1159.41
2'-0"
LID SEAL BY EQUIP. MFGR.
A
"O" RING GASKETS BY EQUIP. MFGR. (TYP.)
CONDUIT ELLS BY EQUIP. MFGR.
1" CONC. STEP
3'-0"
CONC. WALK AROUND P.S.
CONDUIT TO CONTROL PANEL BY CONTR.
CONDUIT FROM SERVICE POLE TO STA. CONTROL PANEL BY CONTR. (TYPICAL)
ALUMINUM LADDER W/ SAFETY EXTENSIONS
45KW KOHLER STAND-BY GENERATOR
"5 STAR" NON-SHRINK GROUT OR WATERPLUG BY CONTR. (TYP.)
(2) LIFTING EYES
B
2½" COOLING WATER DISCHARGE LINE TO WET WELL FROM THIS POINT BY CONTR.
MIN. (2) ¾" TIE RODS
DRESSER STYLE 127 FLANGED ADAPTER
MAGNETIC FLOW RECORDER
¼" BUBBLE TUBE TO THIS POINT FROM CONTROL PANEL BY EQUIP. MFGR.
2½" DIA. PIPE SUPPORT
6" PLUG VALVE
6" CHECK VALVE
6"x4" 90° S.R. B.M. EL.
12" TYP.
6" TYP.
8"
8"x4" REDUCER
PROVIDE CONCRETE BASE FOR BASE ELBOW (2 REQ'D)

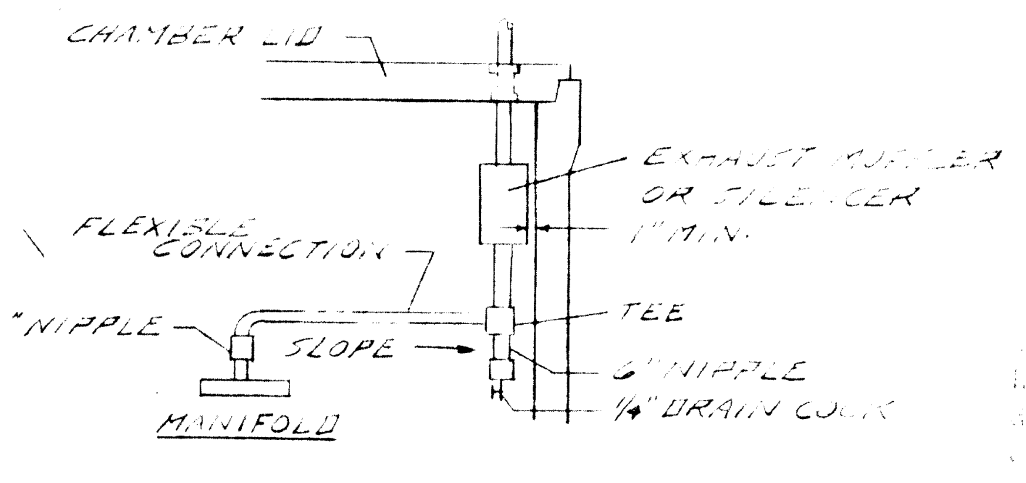
PREFABRICATED PUMPING STATION
SCALE: 3/4"=1'



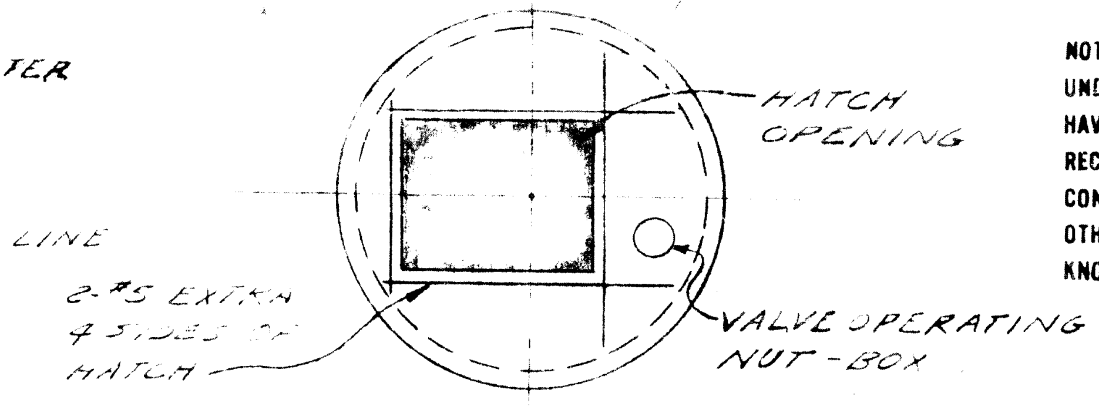
STAND-BY GENERATOR WITH NATURAL GAS
NOTE: USE ALL BLACK IRON PIPE



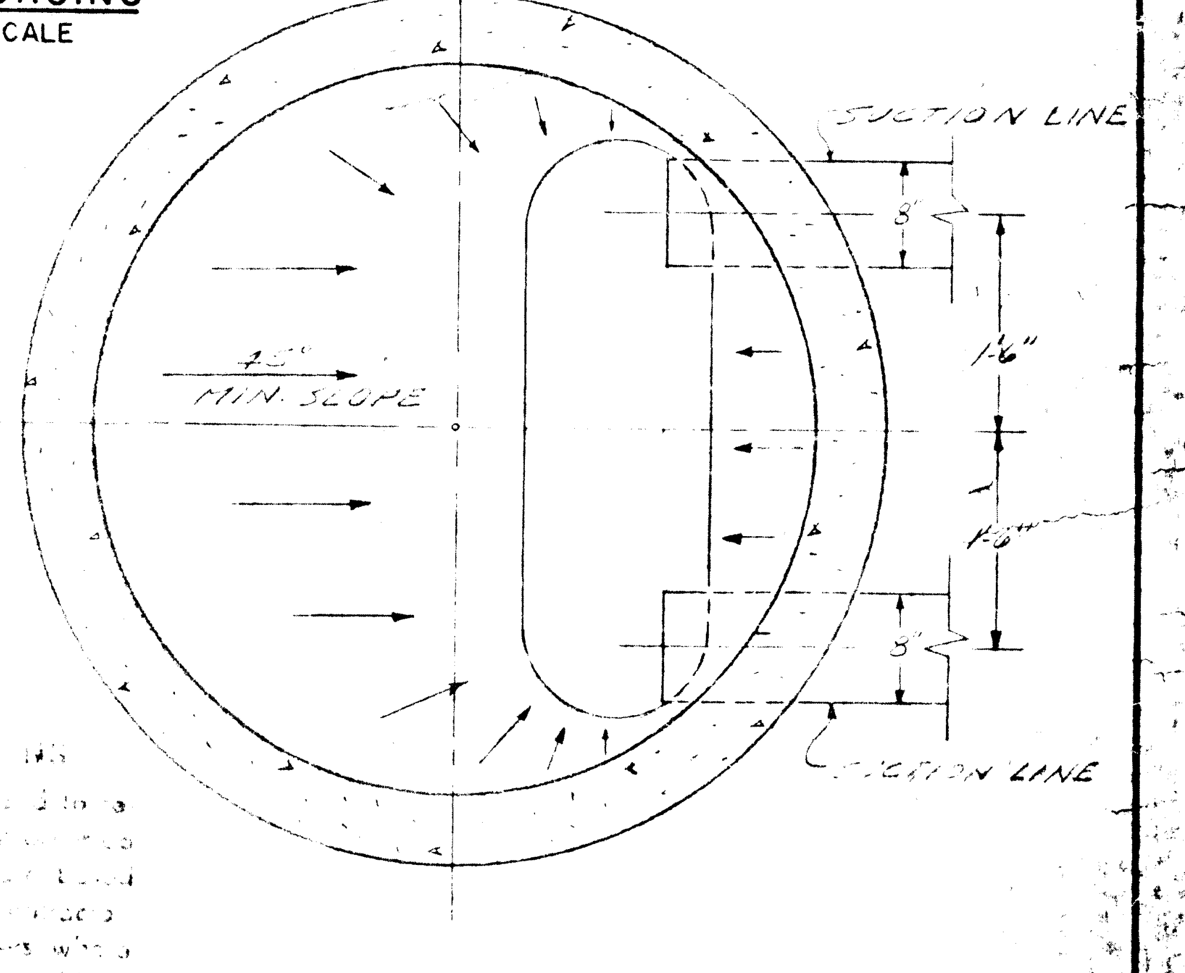
STAND-BY GENERATOR WITH CITY WATER COOLING



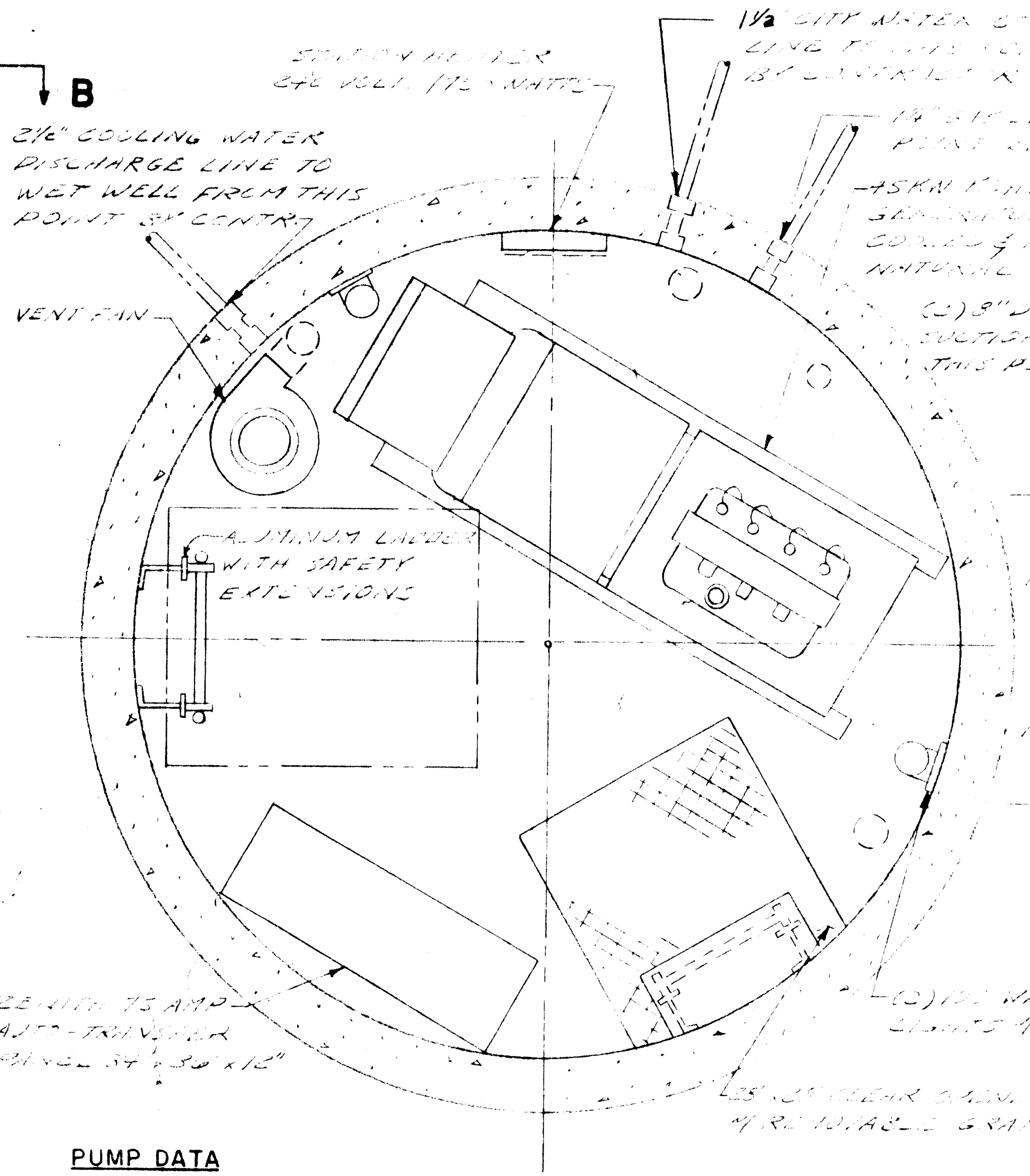
STAND-BY GENERATOR WITH ENGINE EXHAUST



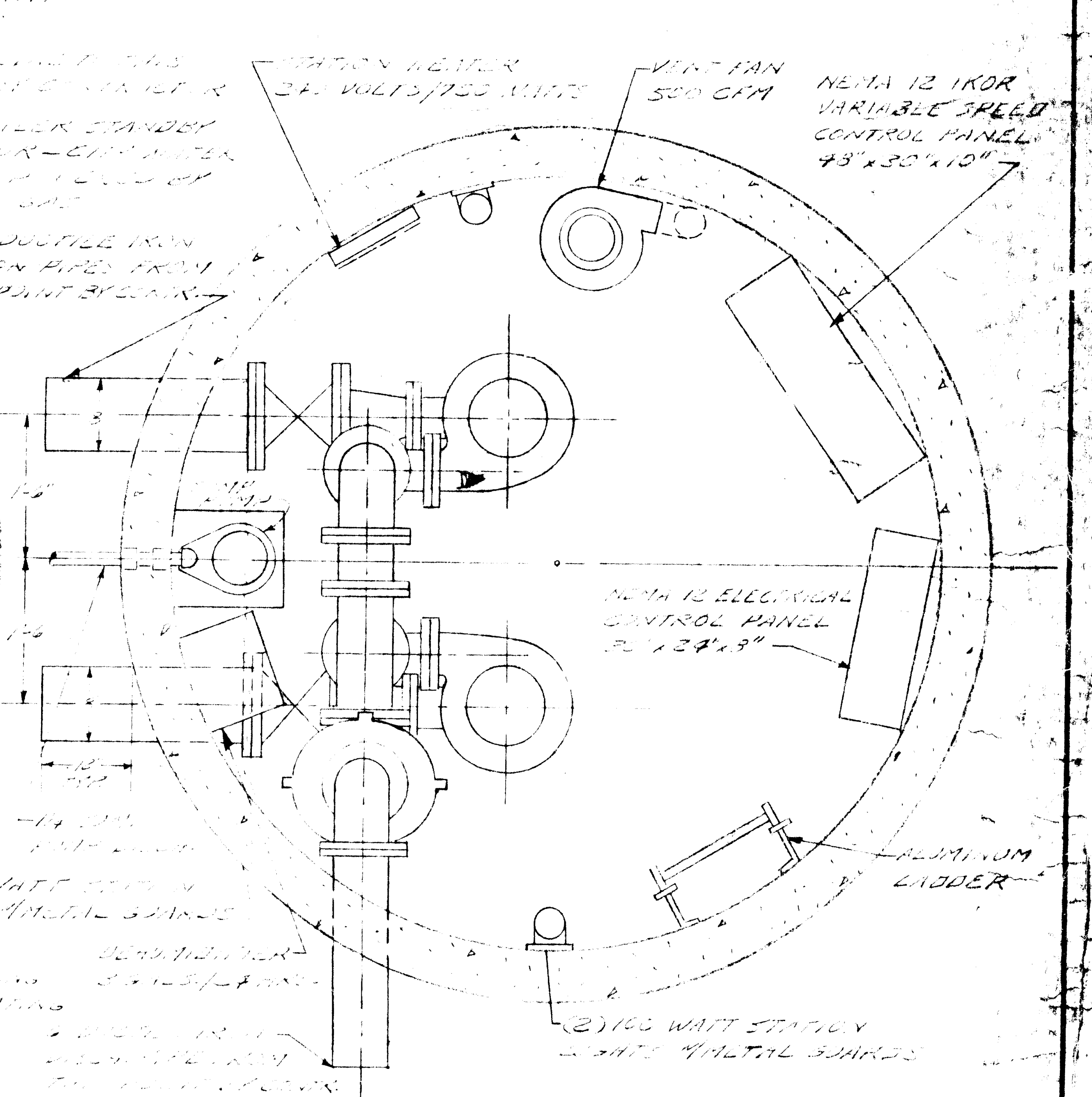
WET WELL TOP REINFORCING
NO SCALE



DETAIL A
SCALE: 3/4"=1'


1½" CITY WATER COOLING LINE TO THIS POINT BY CONTRACTOR
STATION HEATER 240 VOLT, 1750 WATTS
2½" COOLING WATER DISCHARGE LINE TO WET WELL FROM THIS POINT BY CONTR.
VENT FAN
ALUMINUM LADDER WITH SAFETY EXTENSIONS
ZENITH 75 AMP AUTO-TRANSFER PANEL 34"x30"x12"
(2) 150 WATT STATION LIGHTS W/METAL GUARDS
WITH REMOVABLE GRATING

SECTION A-A
SCALE: 3/4"=1'


45KW KOHLER STANDBY GENERATOR
(2) 8" DUCTILE IRON SUCTION PIPES FROM THIS POINT BY CONTR.
VENT FAN 500 CFM
NEMA 12 IKOR VARIABLE SPEED CONTROL PANEL 48"x30"x15"
1'-6"
1'-6"
NEMA 12 ELECTRICAL CONTROL PANEL 30"x24"x8"
ALUMINUM LADDER
(2) 150 WATT STATION LIGHTS W/METAL GUARDS

SECTION B-B
SCALE: 3/4"=1'

PUMP DATA

GPM	TDH
100/650	30/40

MOTOR HP	RPM
20	1660

PHASE	CYCLE
3	60

VOLTS	WIRE SERVICE
460	3

PUMPS
WEMCO 4x9S EVP

LICENSED PROFESSIONAL ENGINEER

A.G. WHELER 31573	W.H. ROWELL 29518
S.G. BRISBIN 31810	R.J. SMITH 38079
W.O. LYNCH 37958	F.S. KEITH 39959

Not valid without approval signature

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
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1	FOR N.Y.S.D.H. & FEDERAL APPROVAL RC	1/69		W.L.A.	AGW	2/5/69

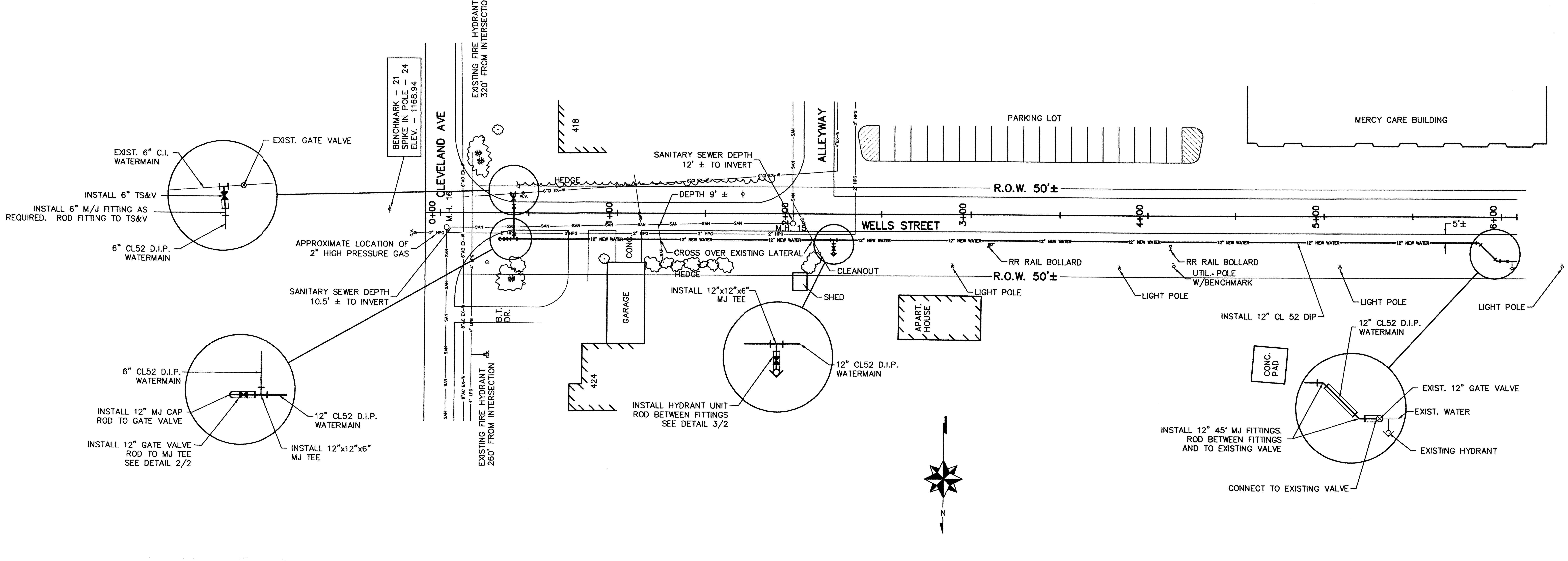
APPROVED
Wayne L. Adams
A. Gordon Wheler

VILLAGE OF NORTH HORNELL, N.Y.
SANITARY SEWER CONSTRUCTION

PUMPING STATION
DETAILS

STEARNS & WHELER
CIVIL AND SANITARY ENGINEERS
CAZENOVIA, N.Y.

JOB NO 531 | CONTRACT NO. 1 | SHEET 29 OF 29


EXIST. 6" C.I. WATERMAIN
EXIST. GATE VALVE
INSTALL 6" TS&V
INSTALL 6" M/J FITTING AS REQUIRED. ROD FITTING TO TS&V
6" CL52 D.I.P. WATERMAIN
BENCHMARK - 21 SPIKE IN POLE - 24 ELEV. - 1168.94
CLEVELAND AVE
EXISTING FIRE HYDRANT 320' FROM INTERSECTION
418
HEDGE
SANITARY SEWER DEPTH 12' ± TO INVERT
ALLEYWAY
PARKING LOT
MERCY CARE BUILDING
R.O.W. 50'±
DEPTH 9' ±
0+00
M.H. 16
1+00
2+00
M.H. 15
3+00
4+00
5+00
6+00
WELLS STREET
5'±
APPROXIMATE LOCATION OF 2" HIGH PRESSURE GAS
SANITARY SEWER DEPTH 10.5' ± TO INVERT
CROSS OVER EXISTING LATERAL
CLEANOUT
RR RAIL BOLLARD
RR RAIL BOLLARD
UTIL. POLE W/BENCHMARK
LIGHT POLE
LIGHT POLE
LIGHT POLE
LIGHT POLE
INSTALL 12" CL 52 DIP
CONC.
GARAGE
B.T. DR.
SHED
INSTALL 12"x12"x6" MJ TEE
APART. HOUSE
424
EXISTING FIRE HYDRANT 260' FROM INTERSECTION
6" CL52 D.I.P. WATERMAIN
INSTALL 12" MJ CAP ROD TO GATE VALVE
INSTALL 12" GATE VALVE ROD TO MJ TEE SEE DETAIL 2/2
12" CL52 D.I.P. WATERMAIN
INSTALL 12"x12"x6" MJ TEE
12" CL52 D.I.P. WATERMAIN
INSTALL HYDRANT UNIT ROD BETWEEN FITTINGS SEE DETAIL 3/2
N
CONC. PAD
12" CL52 D.I.P. WATERMAIN
EXIST. 12" GATE VALVE
EXIST. WATER
EXISTING HYDRANT
INSTALL 12" 45° MJ FITTINGS. ROD BETWEEN FITTINGS AND TO EXISTING VALVE
CONNECT TO EXISTING VALVE
SAN
12" NEW WATER
2" HPG

LEGEND

▨	EXISTING CONCRETE
▨	EXISTING ASPHALT PAVEMENT
▨	EXISTING GRAVEL AREA
—— SAN ——	EXISTING SANITARY SEWER
—— ST ——	EXISTING STORM SEWER
—— W ——	EXISTING WATER LINE
—— LPG ——	EXISTING LOW PRESSURE GAS MAIN
-○-	EXISTING HYDRANT
○	EXISTING MAN HOLE
•	EXISTING WATER VALVE
⁄	EXISTING UTILITY POLE
■	EXISTING CATCH BASIN
○	EXISTING SIGN
——	NEW WATERMAIN
⋈	NEW WATER VALVE
——	NEW 15' WIDE EASEMENT
▼	NEW HYDRANT UNIT

GENERAL NOTES

1. THE CONTRACTOR'S SURVEYOR SHALL SUPPLY THE ENGINEER WITH A COPY OF HIS CONSTRUCTION FIELD NOTES.
2. THE CONTRACTOR'S SURVEYOR SHALL ALSO CHECK ALL HORIZONTAL CONTROL PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
3. CONDITIONS OF CONSTRUCTION ALONG STATE, COUNTY, VILLAGE AND TOWNSHIP HIGHWAYS SHALL CONFORM TO SPECIFICATIONS LISTED ON PERMITS ISSUED BY THE APPROPRIATE AGENCIES. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS.
4. CONTRACTOR SHALL KEEP HIS OPERATIONS WITHIN DESIGNATED EASEMENT AND RIGHT OF WAY LIMITS.
5. SAFE AND CONTINUOUS THROUGH TRAFFIC, INGRESS AND EGRESS FOR ADJACENT OWNER DRIVEWAYS, SERVICE ROADS, PUBLIC STREETS, AND SIDEWALKS SHALL BE MAINTAINED THROUGHOUT THE PERIOD OF CONSTRUCTION.
6. THE CONTRACTOR SHALL CONDUCT HIS ACTIVITIES IN THE VICINITY OF TREES AND BUSHES IN STRICT COMPLIANCE WITH THE APPROPRIATE SPECIFICATIONS. ALL COSTS OF CUTTING AND HAULING AWAY TREES THAT ARE PERMITTED TO BE REMOVED AND ALL COSTS FOR PRESERVING, PROTECTING, TUNNELLING UNDER AND/OR TRANSPLANTING TREES THAT HAVE TO STAY SHALL BE INCLUDED UNDER THE WATERMAIN PAYMENT ITEM. SPECIAL CONSIDERATION MUST BE GIVEN TO THE FACT THAT ENVIRONMENTAL IMPACT IS TO BE KEPT TO A MINIMUM ON THIS PROJECT.
7. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE DEWATERING SYSTEM THAT WILL MAINTAIN THE GROUND WATER TABLE AT A LEVEL OF 6" BELOW THE BOTTOM OF THE PIPE.
8. ALL EXISTING UTILITIES SUCH AS ELECTRICAL, FIBER OPTICS, GAS MAINS, WATERMAINS, SANITARY SEWER LINES AND TELEPHONE SHALL BE STAKED OUT BY THE UTILITY COMPANY PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES FOR STAKE OUT. ANY DAMAGE SHALL BE REPORTED AND ALL COST FOR REPAIR SHALL BE PAID BY THE CONTRACTOR.
9. THE CONTRACTOR SHALL PROTECT ALL EXISTING WATERMAINS AND WATER SERVICE LINES. THE CONTRACTOR SHALL HAVE AMPLE SUPPLY OF REPAIR CLAMPS, COUPLINGS, AND PIPING FOR REPAIRS TO THE EXISTING WATER SYSTEM. INCLUDE ALL COST UNDER THE WATERMAIN PAYMENT ITEM.
10. HIGHWAY DRAINAGE, SIDE STREET DRAINAGE, SWALES, DITCHES, CULVERTS, CATCH BASINS, STORM SEWER, AND OTHER EXISTING DRAINAGE FACILITIES SHALL BE PROTECTED AND MAINTAINED IN ADEQUATE WORKING CONDITION DURING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY OF SUCH FACILITIES THAT ARE DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND THE ENGINEER. NO DIRECT PAYMENT; INCLUDE ALL COSTS UNDER THE WATERMAIN PAYMENT ITEM.
11. IN AREAS WHERE THE CONTRACTOR IS EXCAVATING NEAR ANY UTILITY POLES, THE CONTRACTOR SHALL BRACE AND/OR HOLD IN PLACE AS APPROVED BY THE APPROPRIATE UTILITY COMPANY. INCLUDE ALL COST UNDER THE WATERMAIN PAYMENT ITEM.
12. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DISTURB AND/OR DAMAGE PROPERTY CORNERS (IRON PINS, HUBS, ETC.). ANY DISTURBED OR DAMAGED PROPERTY CORNERS SHALL BE REPLACED BY THE CONTRACTOR'S LICENSED LAND SURVEYOR AT HIS EXPENSE. SURVEY DOCUMENTATION TO BE SUPPLIED TO THE ENGINEERS OFFICE UPON COMPLETION OF THE REPLACEMENT.
13. ANY DISRUPTION OR DAMAGE TO THE HOMEOWNER'S SANITARY SEWAGE SYSTEM DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR. INCLUDE ALL COST UNDER THE WATERMAIN PAYMENT ITEM.
14. SIDEWALKS, GUTTERS, AND CURBING THAT INTERFERE OR ARE DAMAGED DURING CONSTRUCTION SHALL BE REMOVED, RESET, AND/OR REPLACED IN KIND TO THE SATISFACTION OF THE ENGINEER. INCLUDE COST UNDER THE WATERMAIN PAYMENT ITEM.
15. THE CONTRACTOR SHALL VERIFY EXACT SIZE AND LOCATION OF ALL CONNECTIONS TO THE EXISTING WATERMAINS. INCLUDE ALL COST UNDER THE WATERMAIN PAYMENT ITEM
16. CONTRACTOR SHALL NOTIFY THE VILLAGE WATER DEPARTMENT FOR ALL WATER SYSTEM OPERATIONS REQUIRED DURING THE CONSTRUCTION OF THE PROJECT.
17. EXTRA DEPTH MAY BE REQUIRED AT EXISTING UTILITY CROSSING. INCLUDE ALL COST UNDER THE WATERMAIN PAYMENT ITEM.
18. ALL FINISH VALVE BOX ELEVTIONS SHALL BE VERIFIED AND APPROVED BY THE OWNER AND ENGINEER PRIOR TO FINAL RESTORATION.
19. ALL EXISTING WATER SYSTEM MATERIALS REMOVED FROM SERVICE DURING CONSTRUCTION SHALL BECOME THE PROPERTY OF THE OWNER. THE OWNER WILL PROVIDE A STORAGE SITE.
20. WATERMAIN LAYOUT BASED UPON EXISTING MAPPING AVAILABLE.
21. MINIMUM SEPARATION DISTANCE BETWEEN WATER AND SEWER SHALL BE 10' UNLESS OTHERWISE NOTED.

ALTERNATE #1

CHARLES J. FRANCESE
53988

DRAWN BY : MWP
CHECKED BY : LES
DATE : OCTOBER 1999
SCALE : 1"=30'
REVISION :
NOVEMBER 1999
MARCH 2000

"Unauthorized Alteration Or Addition To Plans Bearing A Licensed Engineer's Or Architects Seal, Is A Violation Of Section 7209 Of The New York State Education Law."

HUNT
ENGINEERS • ARCHITECTS • SURVEYORS
185 E. CORNING RD, CORNING, NY 14830-3698
607•962•3137
FAX•937•5316

PLAN AND GENERAL NOTES
WELLS STREET WATERMAIN INSTALLATION
VILLAGE OF NORTH HORNELL
STEUBEN COUNTY, NEW YORK

5

PROJECT NO: 1131-007

V:\1131-009\SENECA\ALTERNATE.dwg Thu Mar 23 09:47:42 2000 HUNT Engineers, Architects and Land Surveyors P.C.