



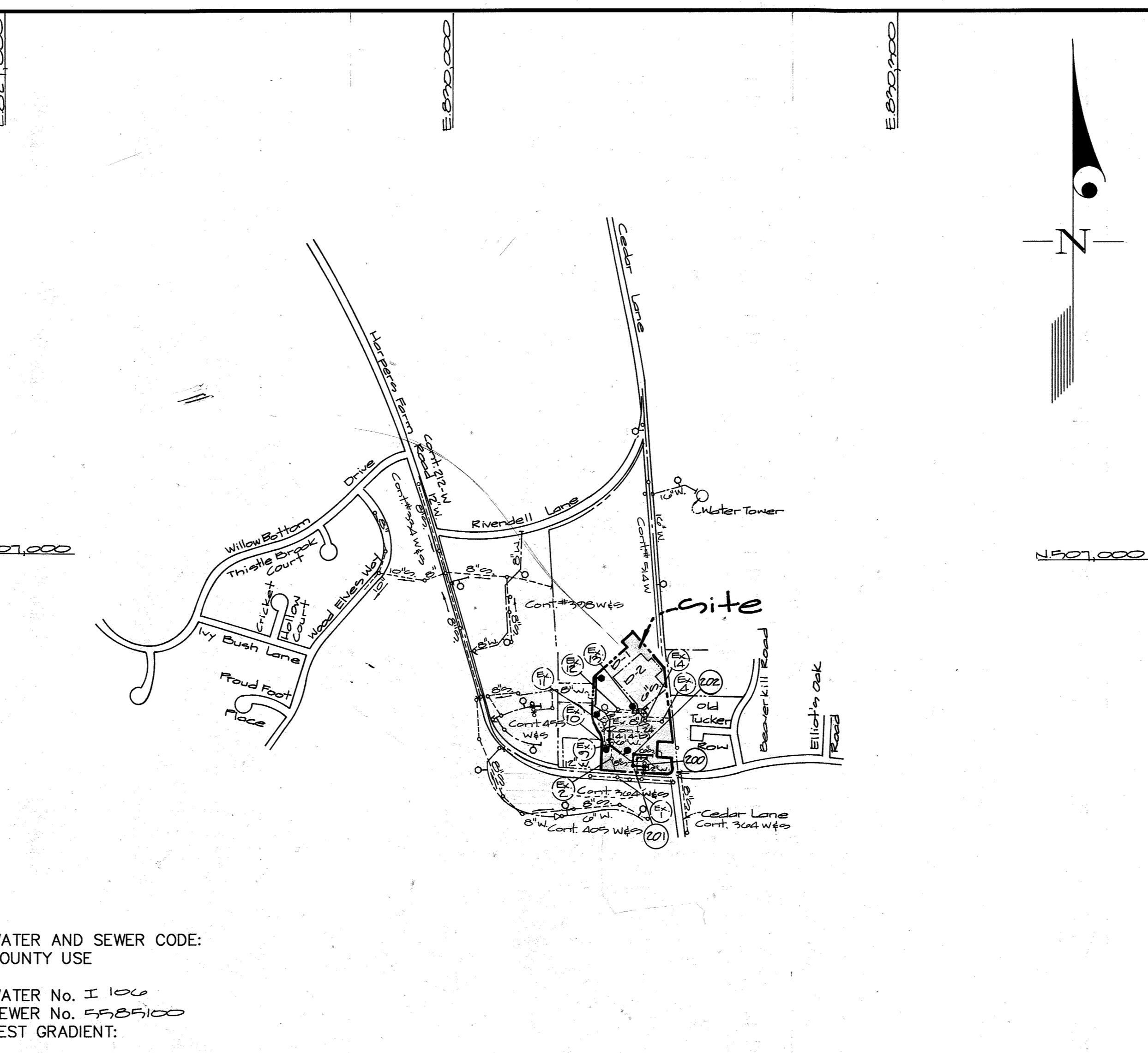
QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/ SUPPLIER
8" x 6" Increaser	2 EA.	2	MJ	US PIPE & FOUNDRY
8" x 6" F.H.T.	1 EA.	1	MJ	" "
8" x 6" T.C.P.	1 EA.	1	MJ	MUELLER CO.
6" x 6" F.H.T.	3 EA.	3	MJ COMPACT D.P.I.	US PIPE & FOUNDRY
2" W.H.C.	72 L.F.	74	" K"	READING TUBE
Fire Hydrant	5 EA.	5	SUPER SATION	MUELLER CO.
6" Valve	6 EA. 7 EA.	7	GATE	US PIPE & FOUNDRY
6" Cut-in Sleeves	4 EA.	4	MJ COMPACT	" "
8" Y-B H.B.	3 EA.	3	"	" "
8" V.G.H.B.	1 EA.	1	"	" "
6" V.G.H.B.	1 EA.	1	"	" "
8" Box 25' L.	2 BOX 25' L.	2	MJ	MUELLER CO.
8" Cap	1 EA.	1	COMPACT D.P.I.	US PIPE & FOUNDRY
8" Water	304 L.F.	240'	CL. 52	" "
Call Water	201 L.F.	230'	CL. 52	" "
8" Cewer	101 L.F.	105'	PVC 90° 35 J.M. MANUFACTURING	" "
Call Cewer	44 L.F.	45'	"	" "
Manholes	3 EA.	3	PRECOST ATLANTIC CONCRETE INC.	" "
8" - Y-B V.B.	2 EA.	2	MJ COMPACT	US PIPE & FOUNDRY
2" Valve	1 EA.	1	BAL TYPE	B&K INDUSTRIES
1" K.COPPER	20 L.F.	20'	K COPPER READING.	" "
1" Valve	1 EA.	1	BAL TYPE	READING.

NAME OF UTILITY CONTRACTOR: GTC CONSTRUCTION

SURVEY AND CHECKBOX:.....  
DRAFTING DIV. AS-BUILT DATE:.... 3-3-96

**Notes:**

- The approved and signed original sheets 1A, 2A + 3A of Contract 400-D-W & S-A are part of Contract 400-D-W & S approved and signed on January 19, 1991, by chief, Bureau of Engineering.
- For realignment of sewer main and water, sewer house connections and fire hydrants locations, refer to these plans: 1A, 2A, and 3A, approved and signed by chief D.E.D. on 3/11/91.



VICINITY MAP  
SCALE: 1"=600'

CONTRACT No. 400-D-W & S-A  
Village of Harper's Choice  
Village Center  
Section 5 Area 2  
Parcel D-1 & D-2

HOWARD COUNTY, MARYLAND  
DEPARTMENT OF PUBLIC WORKS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT.

*Chery Simon* 3/10/97  
SIGNATURE DATE  
U.S.D.A. NATURAL RESOURCES CONSERVATION SERVICE

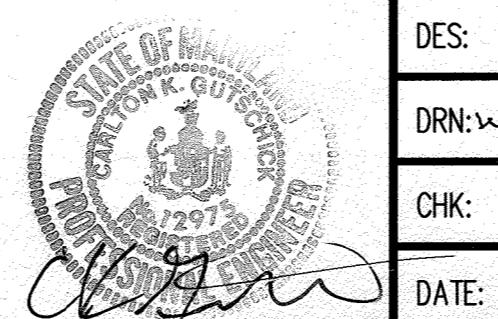
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

APPROVED:  
*John R. Robertson* 3/10/97  
HOA S.C.D. Date

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
Robert M. Beamer 3-6-97  
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING  
HOWARD COUNTY, MARYLAND  
Howard M. O'Donnell 3/10/97  
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

GLW GUTSCHICK LITTLE & WEBER, P.A.  
CIVIL ENGINEERS, SURVEYORS, PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK - BURTONSVILLE, MARYLAND 20866  
TEL: (410) 880-1820 ~ FAX: (301) 421-4186



DES:			
DRN:W&L			
CHK:	GT	2	Revise Quantities
	GT	△	Revise Quantities Box
DATE:	3/22/97	3/22/97	
BY	NO	REVISION	DATE

Title sheet  
scale: 1"=600'

TYPE OF BUILDING	Commercial
NUMBER OF UNITS	3 Parcels
NUMBER OF S.H.C.'s	Prop. 2
NUMBER OF W.H.C.'s	Prop. 3
DRAINAGE AREA	Little Patuxent
TREATMENT PLANT	Little Patuxent Reclamation Plant

GENERAL NOTES

PART I

- Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
- All horizontal controls are based on Maryland State Coordinates [North American Datum 1927 (NAD '27)].
- All vertical controls are based on U.S.G.S. data.
- All pipe elevations shown are invert elevations.
- Clear all utilities by a minimum of 6". Clear all poles by 2'-0" minimum or tunnel as required. The owner has contacted the utility companies and has made arrangements for bracing of poles as shown on the drawings. In the event the contractor's work requires the bracing of additional poles, any cost incurred by the owner for bracing of poles or damages shall be deducted from money owed the contractor. The contractor shall coordinate with the utility companies to schedule the bracing of the poles.
- For details not shown on the drawings, and for materials and construction methods use Howard County Design Manual, Volume IV, Standard Specifications and Detail for Construction (Latest Edition). The contractor shall have a copy of Volume IV on the job.
- Where test pits have been made on existing utilities, they are noted by the symbol □ at the location of the test pit. A note or notes containing the results of the test pit or pits is included on the drawings. Existing utilities in the vicinity of the proposed work for which test pits have not been dug shall be located by the contractor two weeks in advance of construction operations at his own expense.
- Contractor shall notify the following utility companies or agencies at least (5) working days before starting work shown on these plans:

State Highway Administration	531-5533
BGE Contractor Services	850-4620
BGE Under Ground Damage Control	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Howard County Department of Public Works	313-4900
Bureau of Utilities	

- Trees and shrubs are to be protected from damage to maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.
- Contractor shall remove trees, stumps and roots along line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main.
- The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-2450 at least five (5) working days before any open cut of any County road or boring/jacking operation on County roads for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirement per Section 18.114(a) of the Howard County Code.

PART II - WATER

- All water mains to be D.I.P. Class 52 unless otherwise noted.
- Tops of all water mains to have a minimum of 3-1/2' cover unless otherwise noted.
- Valves adjacent to tees shall be strapped to tees.
- All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
- Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be restrained and buttressed with concrete in accordance with the Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
- The contractor shall not operate any water main valves on the existing water system.
- All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
- For sprinkler system for all townhomes or multi-family dwelling units should have a minimum of 1' connection with a 3/4" meter.

PART III - SEWER

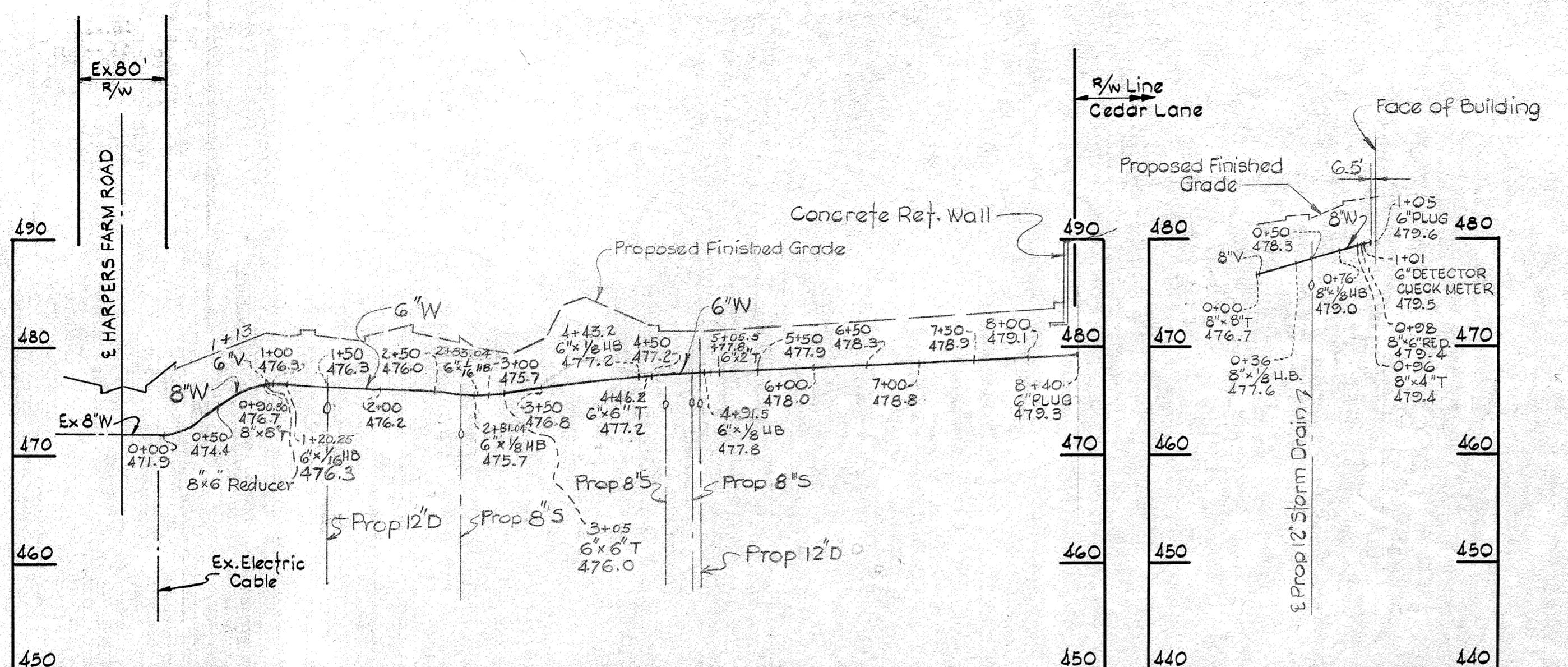
- All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
- All manholes shall be 4'-0" inside diameter unless otherwise noted.
- Force mains shall be D.I.P. only.
- Manholes shown with 12" and 16" walls are for brick manholes only.
- Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on drawings.
- House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

WATER & SEWER AS-BUILT

GLW FILE NO.  
06-045

Village of Harper's Choice  
Village Center  
Section 5 Area 2  
Parcel D  
4th. Elec. District-Howard County, Maryland  
Contract No.: 400-D-W & S-A

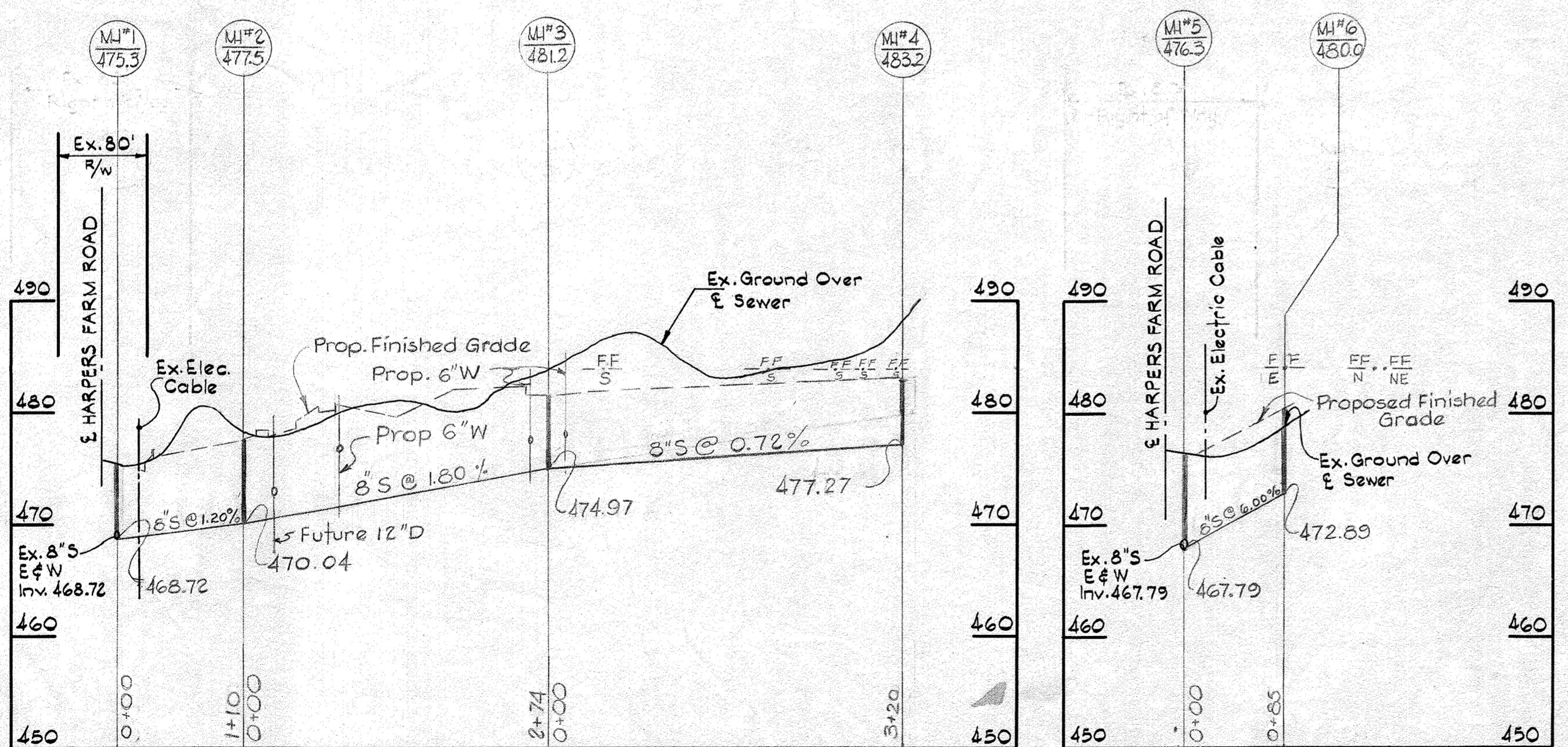
SCALE AS SHOWN  
SHEET LAOF 3



### Notes

1. The approved and signed original sheets 1A, 2A & 3A of Contract 400-D-W+G-A are part of Contract 400-D-W+G approved and signed on January 19, 1971, by chief, Bureau of Engineering.
  2. For realignment of sewer main and Water, sewer house connections and fire hydrantes locations refer to these plans: 1A, 2A and 3A, approved and signed by chief D.E.D. on 3/11/97

# WATER MAIN PROFILES



# SEWER MAIN PROFILES

Contract No. 400 W & S

PURDUM & JESCHKE ENGINEERS 1023 N. CALVERT ST. BALTIMORE MARYLAND	DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND 1-19-71 DATE C. O. Pfeifer CHIEF - BUREAU OF WATER AND SEWER	CONTRACT NO. 400-D-W&S HARPERS CHOICE VILLAGE CENTER CLARKSVILLE ELECTION DISTRICT NO. 5	DRAWING NO. 2 OF 2	SCALE H:1"=100' V:1"=10'
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### Notes

- ① Remove ex. manhole no. 13. Remove ex. 8" sewer to proposed manhole 200 outlet.
- ② Remove ex. 1½" w.h.c. and plus at ex. 8" water main (built under contract #400-D).
- ③ Ex. easement to be vacated.
- ④ Proposed limit of public water & sewer.
- ⑤ Private 6" sewer. Connect to existing sewer house connection(s) from building. (2% min. slope).
- ⑥ Private 8" water. Remove ex. 8" ½" B. and connect to ex. 8" water. (Built under contract #400-D proposed private 8" water).
- ⑦ Ex. 12" storm drain to be removed from existing terminal manhole between Existing building & proposed building to new manhole West of proposed 8" sewer.
- ⑧ Ex. 8" water built under contract #400-D to be abandoned and removed.
- ⑨ Ex. 8" Water built under contract #400-DW4 to be lowered from R=Sta. 0+00 to 0+14 (see profile).

Note: Contractor is responsible for replacing existing paving removed during construction of proposed water & sewer mains. See Howard County std. G.4.01

Note: Contractor shall sequence the construction of this contract to avoid any possible conflicts with sediment control measures installed under ODP 97-28 & 97-40.

### Legend

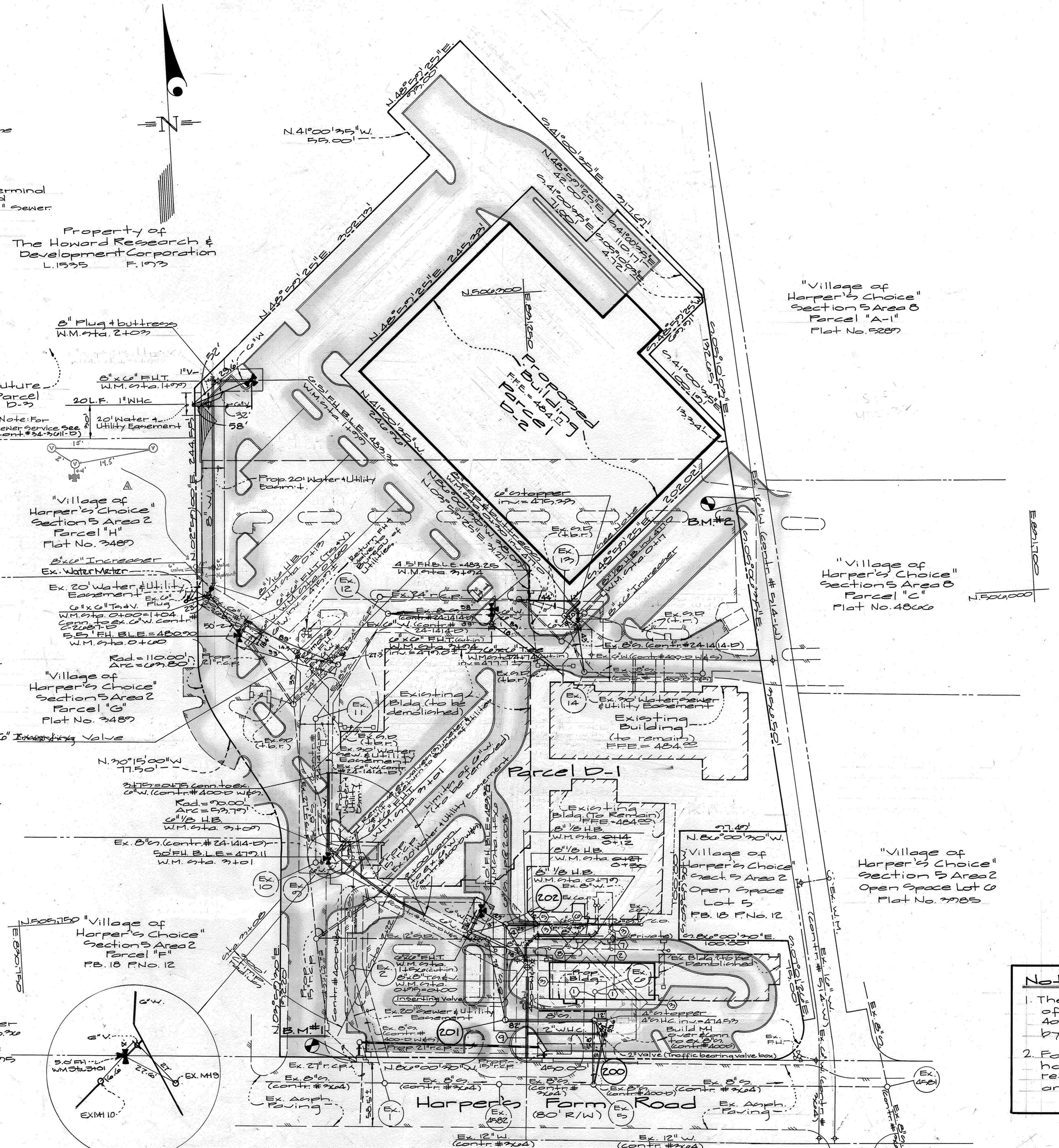
- Ex. Curb/Paving
- Prop. Curb/Paving
- Notes (see above)
- Prop. Public sewer
- Prop. Public Water
- Prop. Private sewer
- Prop. Private Water
- Prop. Public Storm Drain

Note: Existing manhole No. 13: Rechannel existing bench for new 6" SHC (type A drop).

### Ex. Structure Modification Schedule

Ex. structure	Ex. Rim Elevation	Proposed Rim Elevation
2.	478.19	478.11
9.	482.00	478.85
10.	479.47	478.58
11.	482.00	480.22
12.	482.04	481.04
13.	482.10	483.00
14.	483.78	483.23

Note: All existing valve boxes to be raised or lowered to proposed grade as required.



### Existing 8" Water Abandonment Procedure

- Install 8" x 8" T&V, 8" ½" horizontal bends and associated piping and blocking. Test new main line.
- After blocking has obtained the minimum compressive strength and all tenants have been notified that the water will be turned off (48 hours prior to shut down), notify the Bureau of Utilities to close the existing valve east of the existing tee (service to the existing building).
- Remove existing 1½" Water house connection and existing 8" Water east of existing valve to the point that the new 8" ½" H.B. will connect to the existing 8" main (at or near the existing 8" ½" horizontal bend). Connect the new 8" main to the existing 8" main. Plug existing valve.
- Notify the Bureau of Utilities to open the new 8" valve north of the existing tee to re-establish service.

### Existing Fire Hydrant Abandonment Procedure

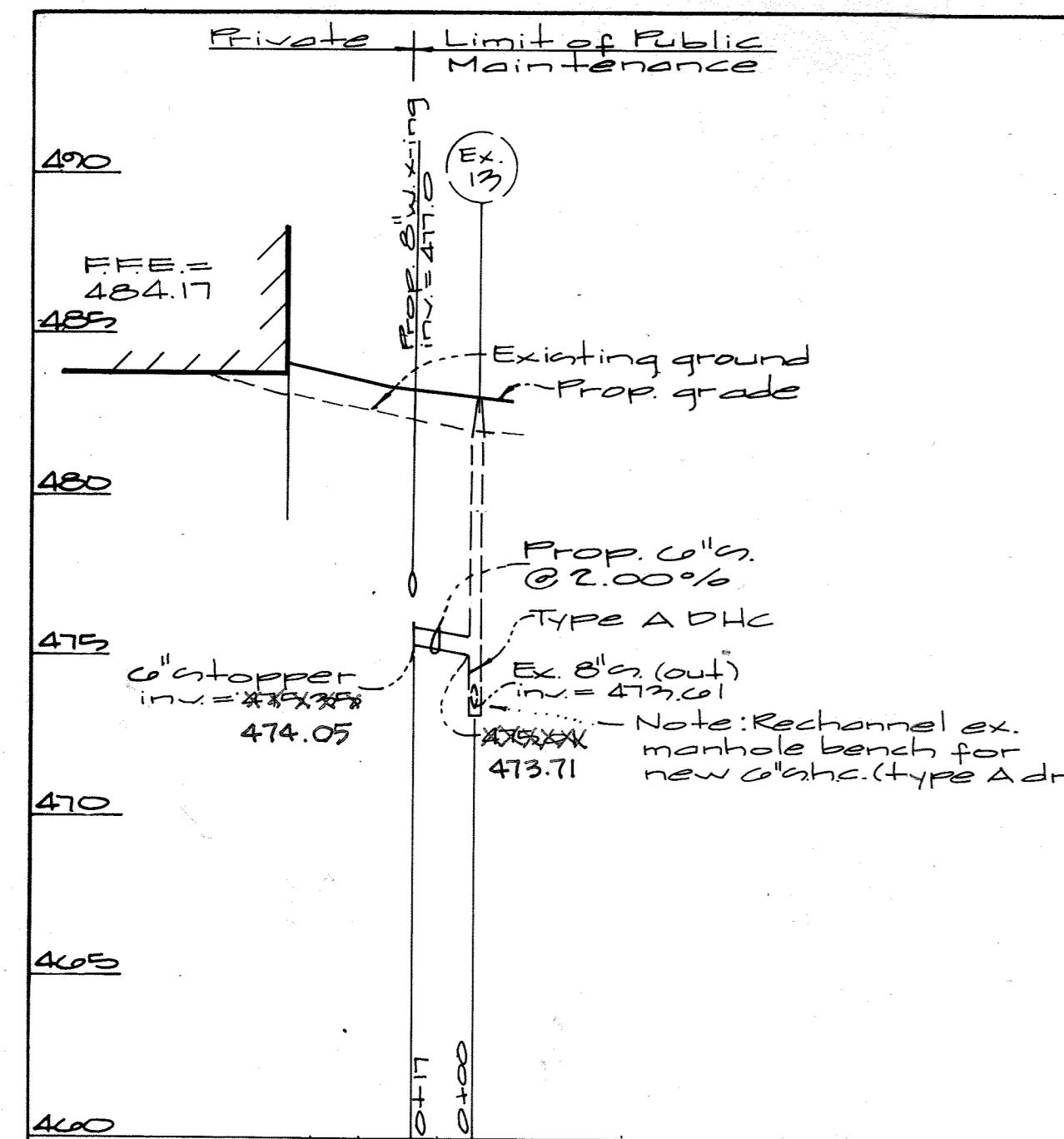
- Note: This abandonment and the following lowering are not to be under construction simultaneously. Contractor shall maintain continuous service to Parcels G & H.
- Notify the Bureau of Utilities to close existing valves to the east and west of the existing fire hydrant.
  - Remove existing fire hydrant and 6" valve and return to the Bureau of Utilities. Plug existing 6" tee.
  - Install proposed 6" x 6" FHT and valve and 6" x 6" tee and valve using cut-in sleeves at stations 7+94 and 4+74. Block as required.
  - Install fire hydrant and 8" service to new building as indicated. Test line.
  - Notify the Bureau of Utilities to re-open existing valves.

### Existing 6" Water Lowering Procedure

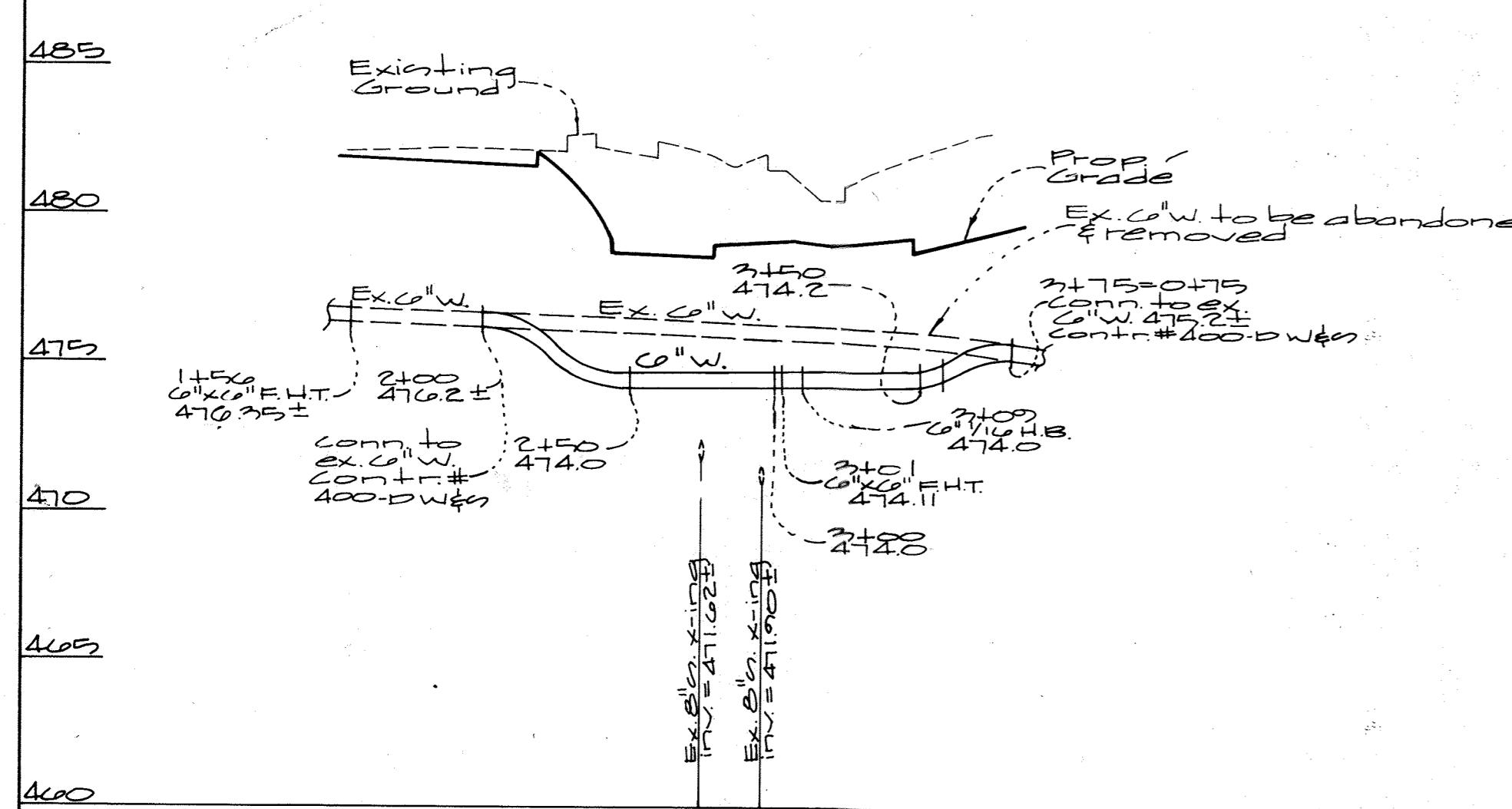
- Install 6" inserting valve as indicated on plan in existing 6" main.
- Notify the Bureau of Utilities to close the new 6" inserting valve and the existing 6" valve to the west of the new 8" x 8" T&V constructed above.
- Remove existing 6" water, 2" valves, water meter and vault as indicated on the plans (return valves, water meter and vault to the Bureau of Utilities).
- Install proposed 6" water as indicated on the plans and profiles. Install 6" x 6" FHT and valve using a cut-in sleeve at station 1+50. Block as required. Install proposed fire hydrant. Test line.
- Notify Bureau of Utilities to re-open valves.

### Notes

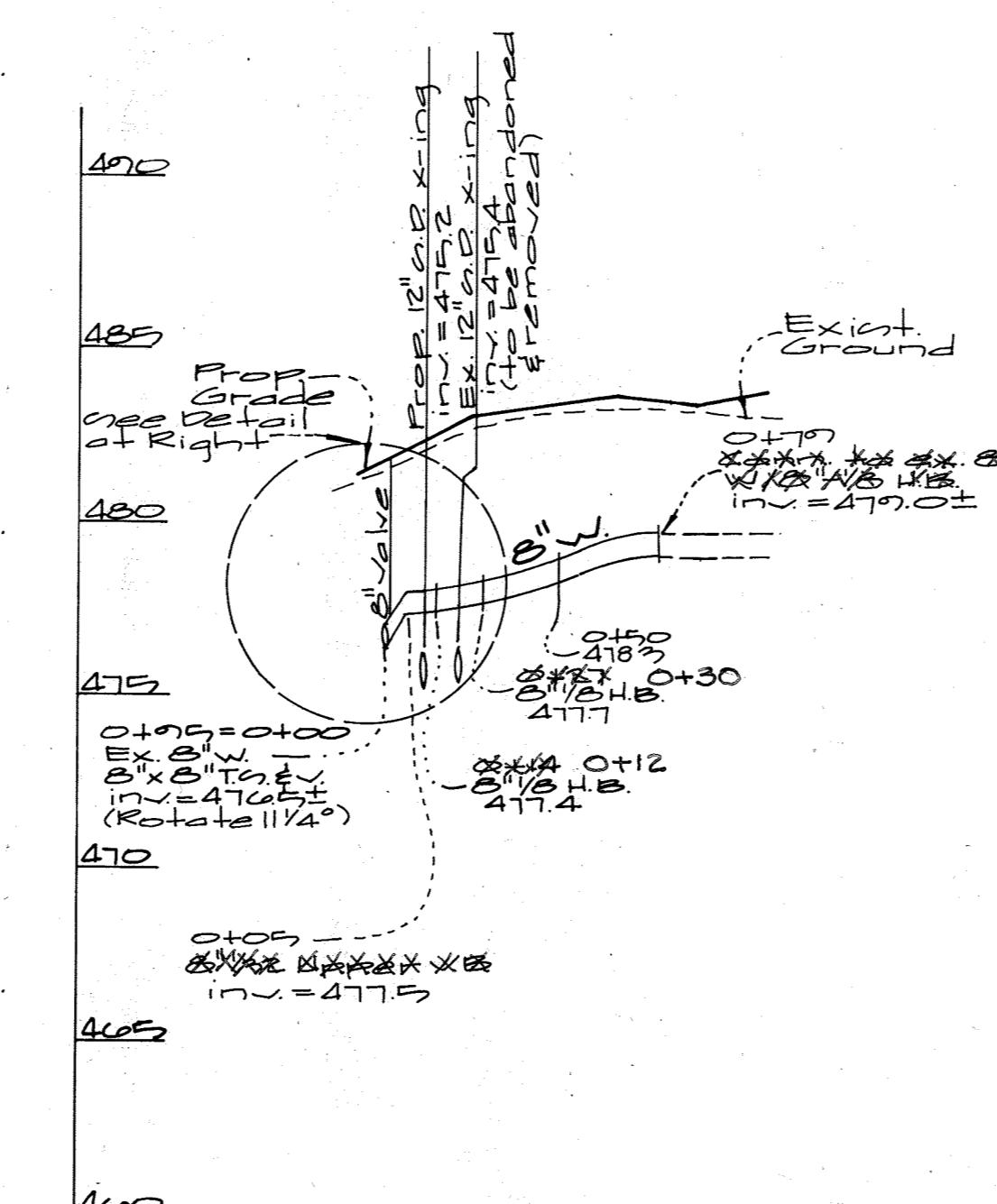
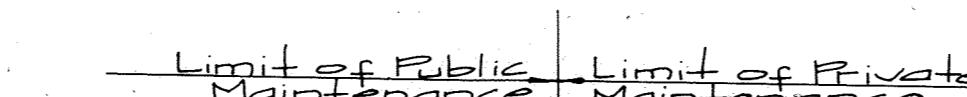
- The approved and signed original sheets 1A, 2A & 3A of Contract 400-D-W13-A are part of Contract 400-D. W13 is approved and signed on January 19, 1971, by chief, Bureau of Engineering.
- For realignment of sewer main and water, sewer house connections and fire hydrants locations, refer to these plans: 1A, 2A and 3A, approved and signed by chief D.E.P. on 3/11/97.



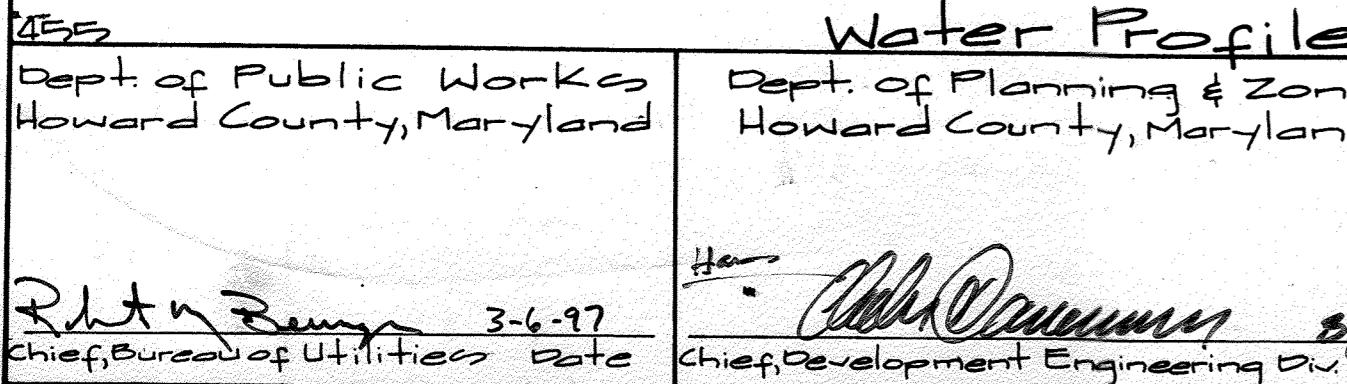
# Sewer Profile



## Water Profile



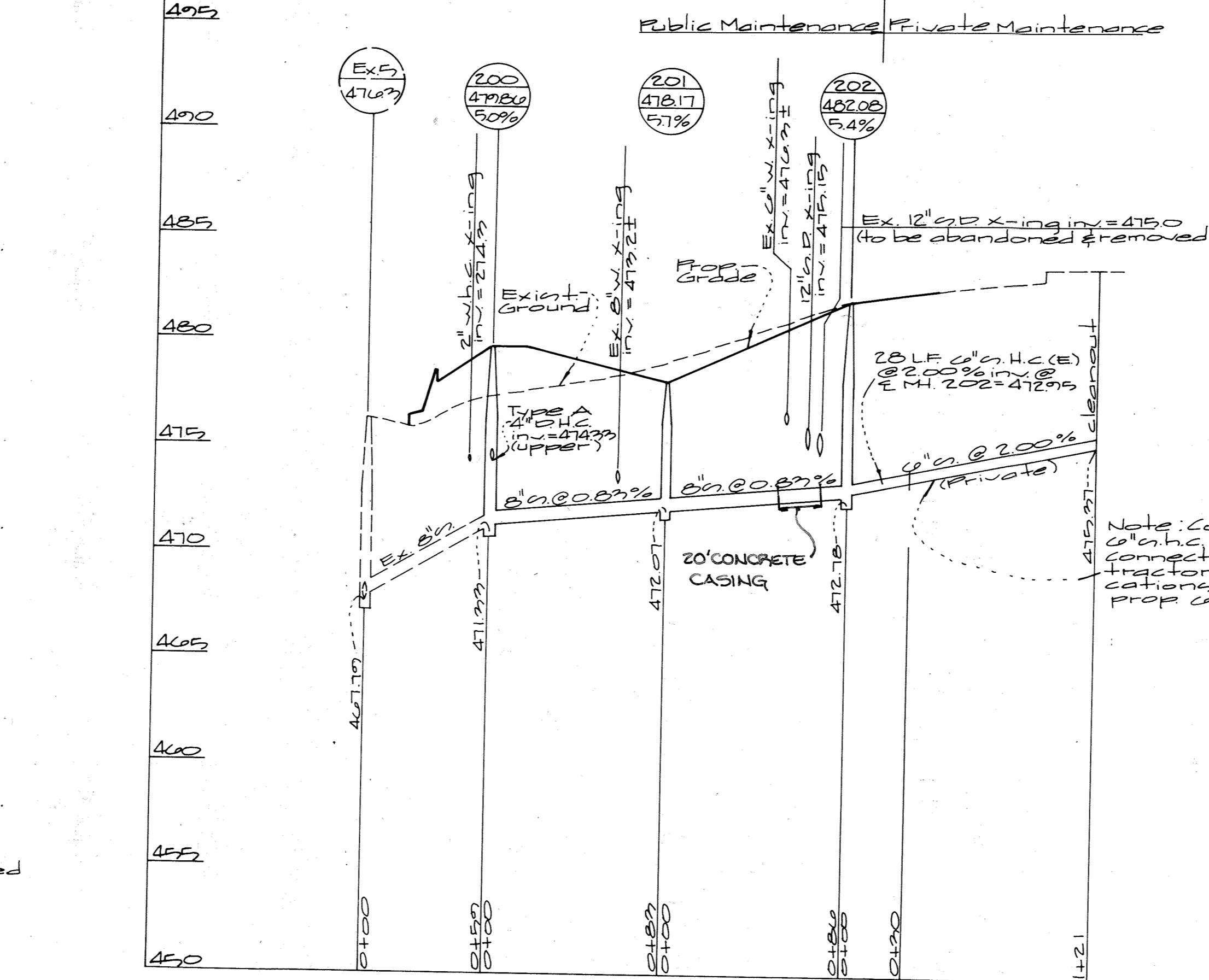
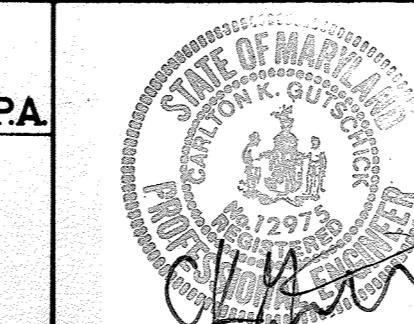
## Profile



~~Chief, Bureau of Utilities~~ 3-6

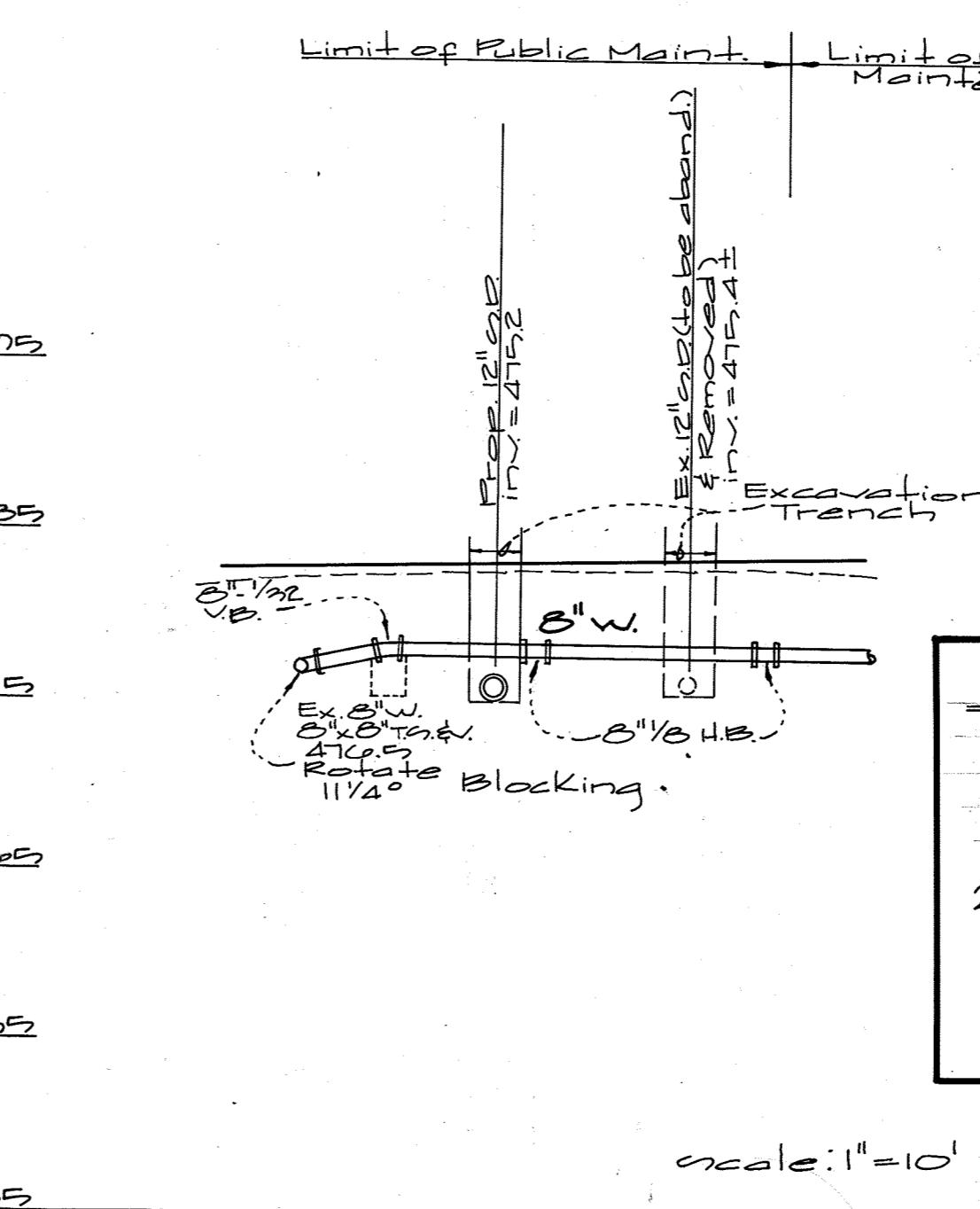
Chief, Development Engineering Div.

**GLW GUTSCHICK LITTLE & WEBER,  
ENGINEERS, PLANNERS, SURVEYORS**

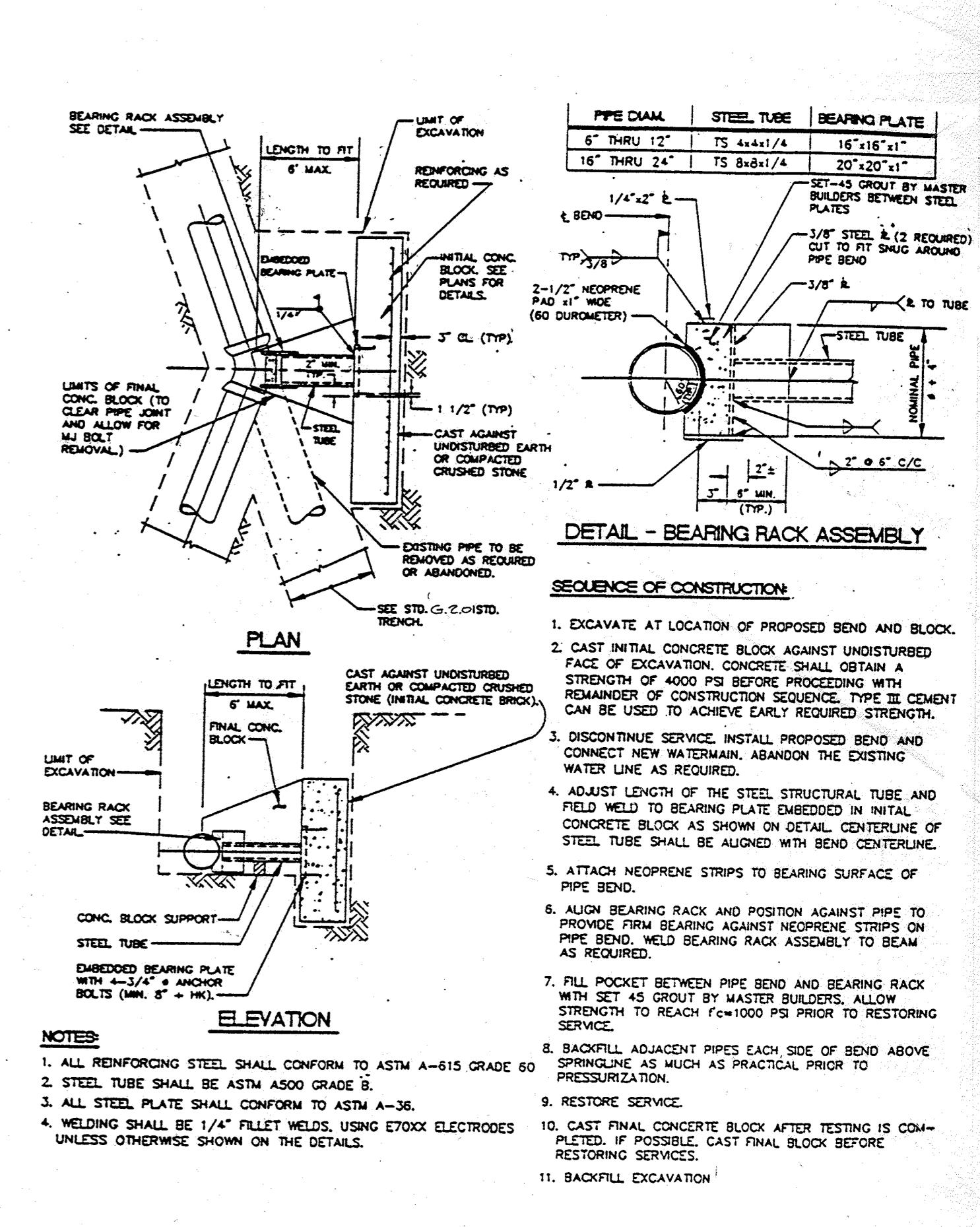


## Sewer Profile

**Note:** 12" & 16" walls not required  
For precast manholes.  
When using precast  
manholes see std. dtl.  
G.5.11 & G.5.12

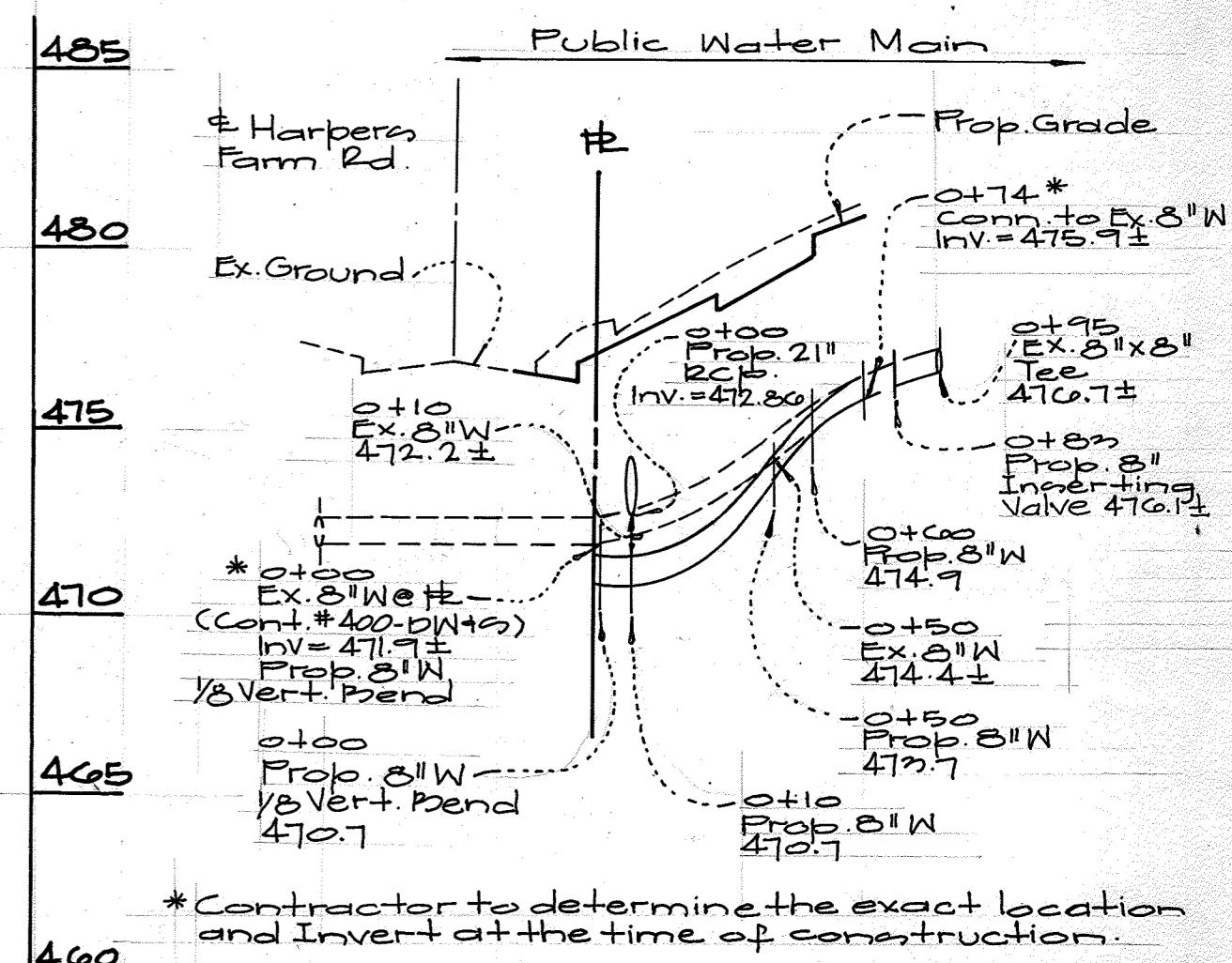


## Water Profile Detail



## Quick Block Detail,

(8" 1/8 Horiz. Bend sta. 0+70  
Connection to ex. main)  
(Private)



**Profile : 8" Waterline to be lowered**

Notes

1. The approved and signed original sheets 1A, 2A + 3A of Contract 400-D-W4S-A are part of Contract 400-D-W4S approved and signed on January 19, 1971, by Chief, Bureau of Engineering
2. For realignment of sewer main and Water, sewer house connections and fire hydrants locations, refer to these plans: 1A, 2A and 3A, approved and signed by Chief D.E.D. on 3/11/97.

