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## WATER AND SEWER EXTENSION NORDAU SUBDIVISION

6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4084-D

## **BENCHMARKS**

HOWARD COUNTY MONUMENT 421A N 543,390.386 E 1,364,912,655 ELEV.312,667 STANDARD STAMPED BRASS OR ALUMINUM DISC ON CONCRETE MONUMENT: 0.3' BELOW SURFACE LOCATED ON WEST MARGIN OF MISSION ROAD 340' EAST OF 8783 MISSION ROAD 74.3' NORTH OF BGE POLE 297906.

HOWARD COUNTY MONUMENT 421B N 542,366.879 E 1,363,076,003 ELEV.283,120 STANDARD STAMPED BRASS OR ALUMINUM DISC ON CONCRETE MONUMENT: 0.3' BELOW SURFACE LOCATED ON SOUTHERN MARGIN OF GUILFORD ROAD ACROSS FROM MISSION ROAD 19.4' SOUTHEAST OF BGE POLE 271362.

## **QUANTITIES** AS-BUILT QUANTITIES **JTEMS** MANUFACTURER SUPPLIER **ESTIMATED QUANTITIES** TYPE BELAIR RD. SUPPLY 8" WATER 107 LF 107 L.F. CL 52 DIP U.S. PIPE 6" WATER 377 LF U.S. PIPE 375 L.F. CL 52 DIP CL52 DIP 4" WATER 30 LF U.S. PIPE tt it it CAMBRIDGE 218 LF H COPPER 1" WATER 6" VALVES R.S.O.R. CATE V MUELLER CO. 4" VALVES 1 EA RSOR CATE V I EA. FIRE HYDRANTS 1 EA IEA. MUELLER •• // BLOW-OFF 1 EA KUPFERLE I EA KUPFERLE 8" SEWER P.V.C. S.D.R. 35 NATIONAL PIKE 1023 LF 999 L.F. fr fr 4" SEWER 306 LF P.V.C. S. D.R. 35 NATIONAL PKE 173 L.F. PRECAST CONTRACTOR 4' DIA. MANHOLE 10 EA 10 EA CONTRACTOR PRECOST DROP MANHOLE TYPE 'B' PRECAST CONTRACTOR 1 EA IEA CONTRACTOR PRECAST 8" DIP CL 52 SEWER 281 LF CL-52 1711 279 L.F U.S. PIPE BELAIR RD. SUPPLY

NAME OF UTILITY CONTRACTOR : EXCAUDUR EXCAVATIONS

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications F-03-32

CHECKBOX AS-BUILT DATE SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

sediment control by the Howard Soil Conservation

DEPARTMENT OF PLANNING & ZONING

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects.

T 410.997.8900

F 410.997.9282

W & S Code

County Use

Sewer No. 4400000

Test Gradient: 700

Water No. E-14

Zone: 550



9	DES:	C.J.R.				
	DRN:	DAM				· ·
,,,,,,,		7	3	EM.R.	ADD WHC AND SHC FOR LOTS 55 56	4/30/0
•	CHK:	C.J.R.	12	K.C.I		10/6
19.63			Δ	KCI	I ASBUILT PATA ADDED TOPLAN	8/26
19949				BY	NO. REVISION	DAT

N 44650.00

**MCINITY MAP** 

N\_44850.00

TYPE OF BUILDINGS:

NO. OF WHC: 10

SINGLE FAMILY DETACHED

NO. OF BUILDABLE LOTS: 10

DRAINAGE AREA: LITTLE PATUXENT

WASTE WATER TREATMENT PLANT

TREATMENT PLANT: LITTLE PATUXENT

NORDAU SUBDIVISION SECTION G, LOTS 40-56 A RESUBDIVISION OF LOTS 35-37 AND 39 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4084-D

**GENERAL NOTES** 

1. Approximate location of existing mains are shown. The contractor shall take all necessary precautions to protect existing mains and services and maintain uninterrupted service. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.

2. a.) All horizontal controls are based on Maryland State Coordinates, NAD 83/91 as projected by Howard County Horizontal and Vertical Geodetic Control Nos. 421A and 421B

b.) These water and sewer drawings are based on aerial survey maps with maximum two foot contour intervals prepared in Wings Inc. flown in MARCH 2001

3. All vertical controls are based on NAVD 88.

4. All pipe elevations shown are invert elevations unless otherwise noted on the plans.

5. Clear all utilities by a minimum of 12 inches. Clear all poles by 5'-0" minimum or tunnel as required unless otherwise noted. 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 the bracing of additional poles or damages shall be deducted from monies owed the contractor. The contractor shall coordinate with the utility companies to

6. 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.

7. 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.

8. The contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

1-800-252-1133 BGE (Contractor Services) 410-850-4620 BGE (Underground Damage Control) 410-787-9068 410-313-4900 Bureau of Utilities Colonial Pipeline Co. 410-795-1390 Miss Utility 1-800-257-7777 State Highway Administration 410-531-5533 1-800-743-0033 / 410-224-9210

9. Trees and shrubs are to be protected from damage to the maximum extent. Trees and shrubs located within the construction strip are not to be removed or damaged by the contractor.

10. The contractor shall remove trees, stumps and roots along the line of excavation. Payment for such removal shall be included in the unit price bid for construction of the main 11. The contractor shall notify the Bureau of Highways, Howard County, at 410-313-7450 at least five working days before open cutting or boring/jacking of any County road for laying water/sewer mains or house connections. The approval of these drawings will constitute compliance with DPW requirements per Section 18.114(a) of the Howard County Code.

WATER NOTES

1. All water mains shall be D.I.P. Class 52 unless otherwise noted.

2. Tops of all water mains shall have a minimum of 3'-6" of cover unless otherwise noted.

3. Valves adjacent to tees shall be strapped to tees.

4. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.

5. Fire hydrants shall be set to the bury line elevations shown on the drawings. All fire hydrants shall be installed in accordance with Standard Details. The soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.

6. The contractor shall not operate any water main valves on the existing water system.

**SEWER NOTES** 

1. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted

3. Force mains shall be D.I.P. only.

4. Manholes shown with 12" and 16" walls are for brick manholes only.

2. All manholes shall be 4'-0" inside diameter unless otherwise noted.

5. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail G5.52. Where watertight manhole frames and covers is used, set top of frame 1"-6" above finished grade unless otherwise noted on the drawings.

6. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.

7. The pressure sewer conections installed under contract #24-3662-D for Lots 40,41, & 42 shall be convereted to gravity sewer under this proposed plan.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

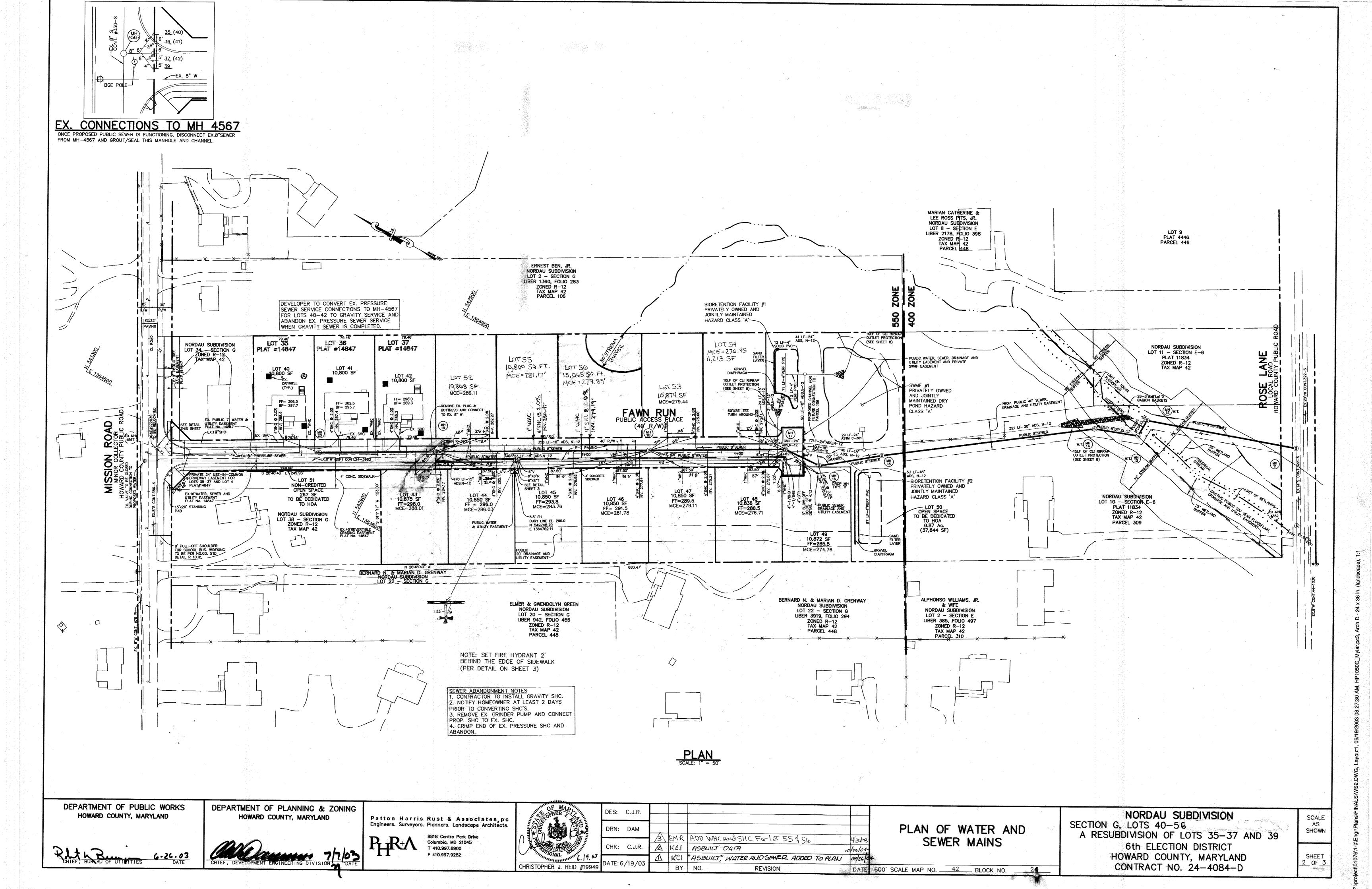
8818 Centre Park Drive Columbia, MD 21045

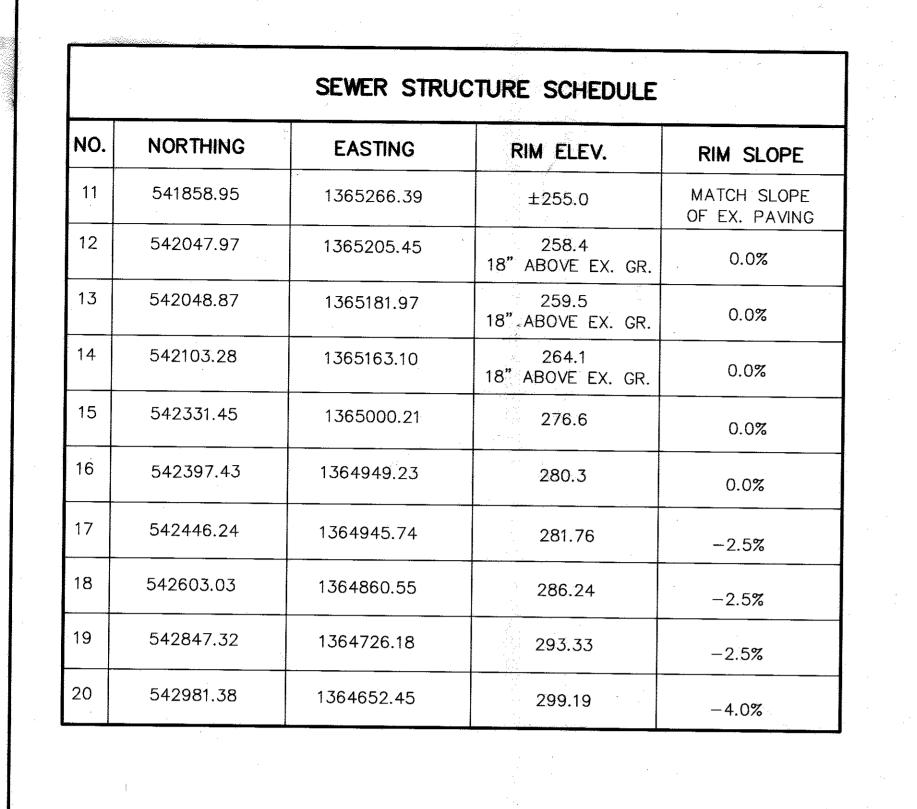
TITLE SHEET

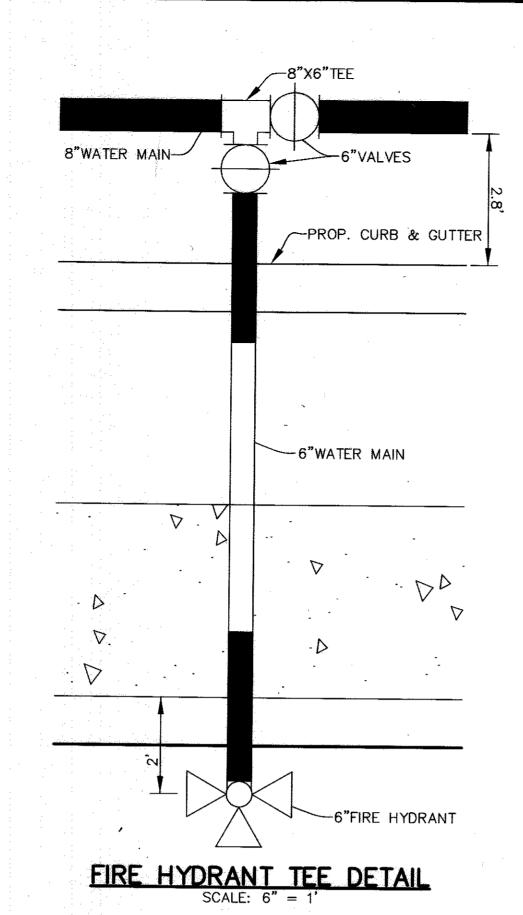
600' SCALE MAP NO. 42 BLOCK NO. 24

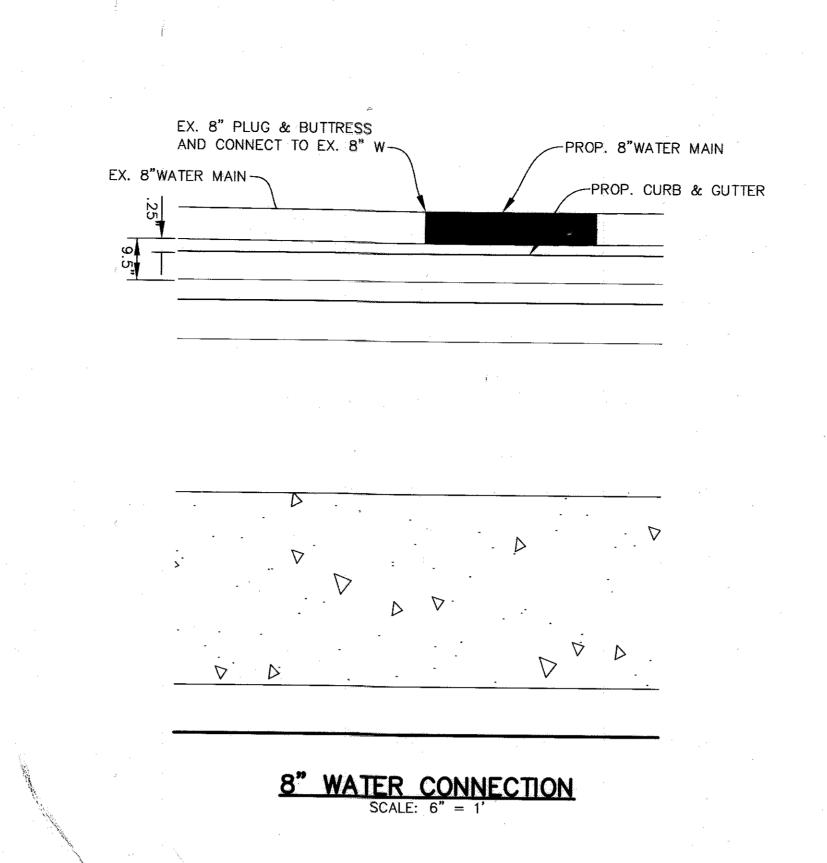
**SCALE** SHOWN

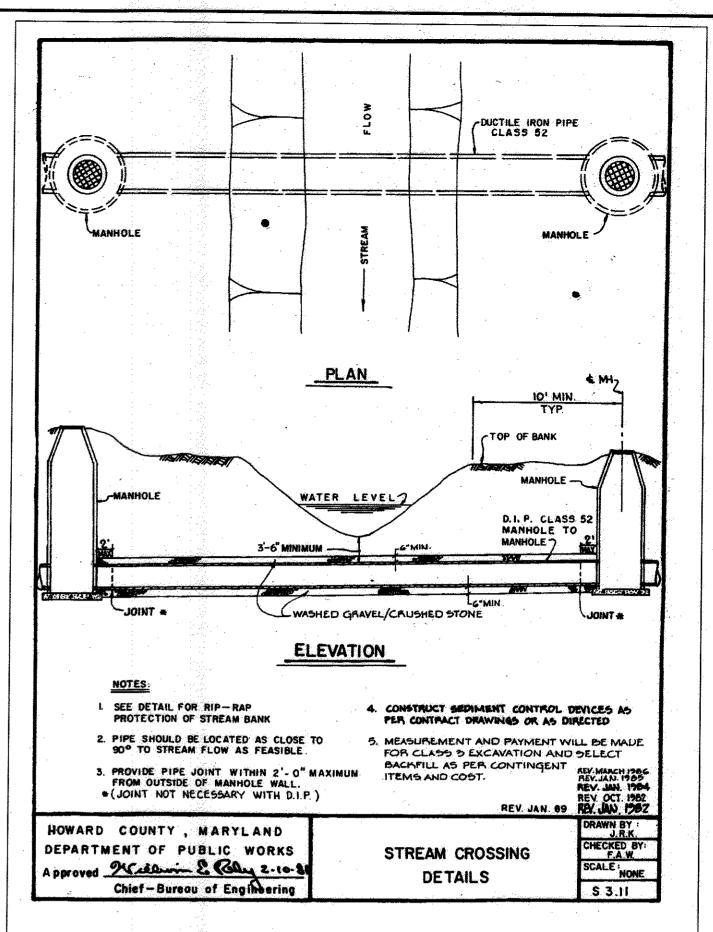
1 OF 3

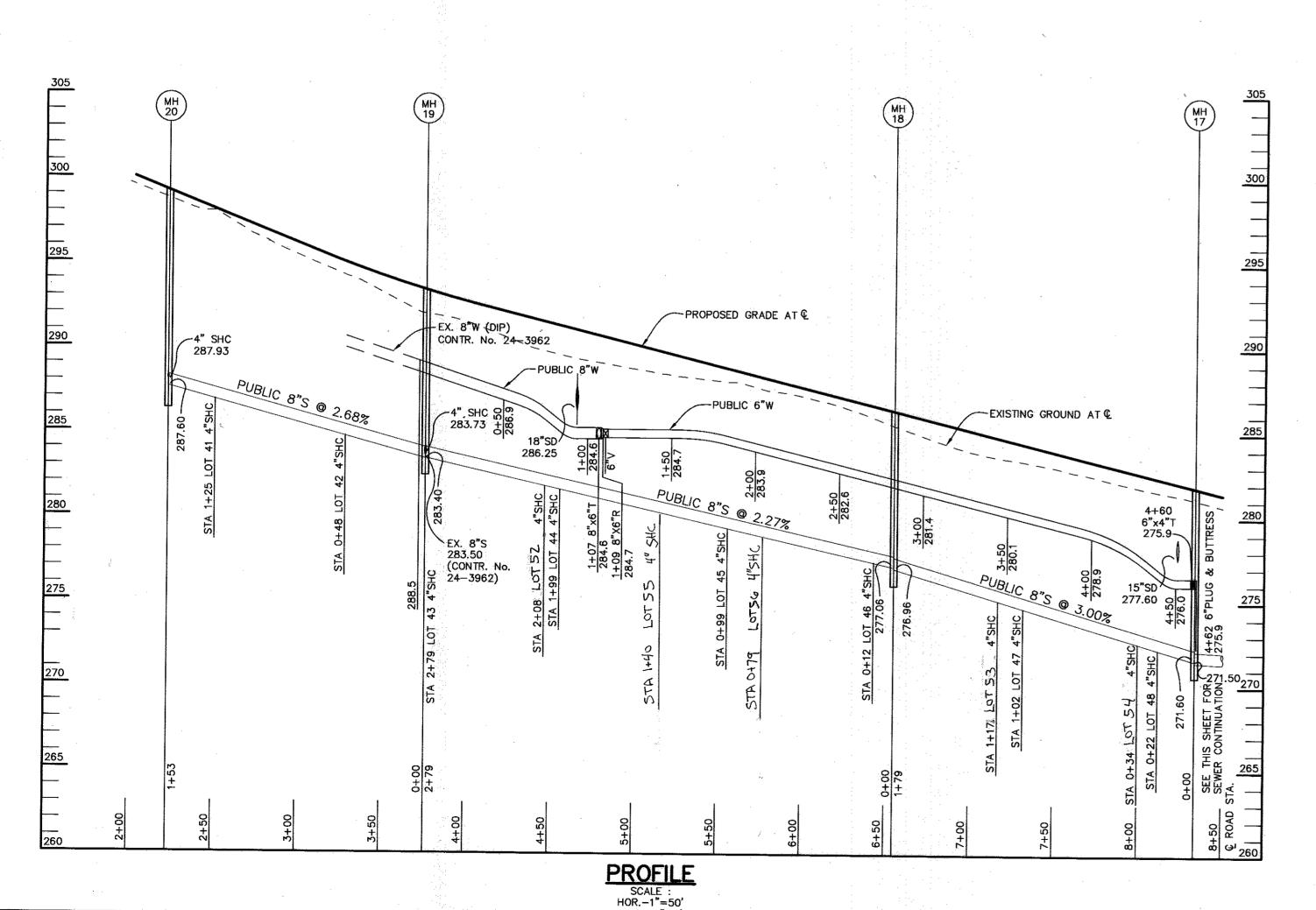


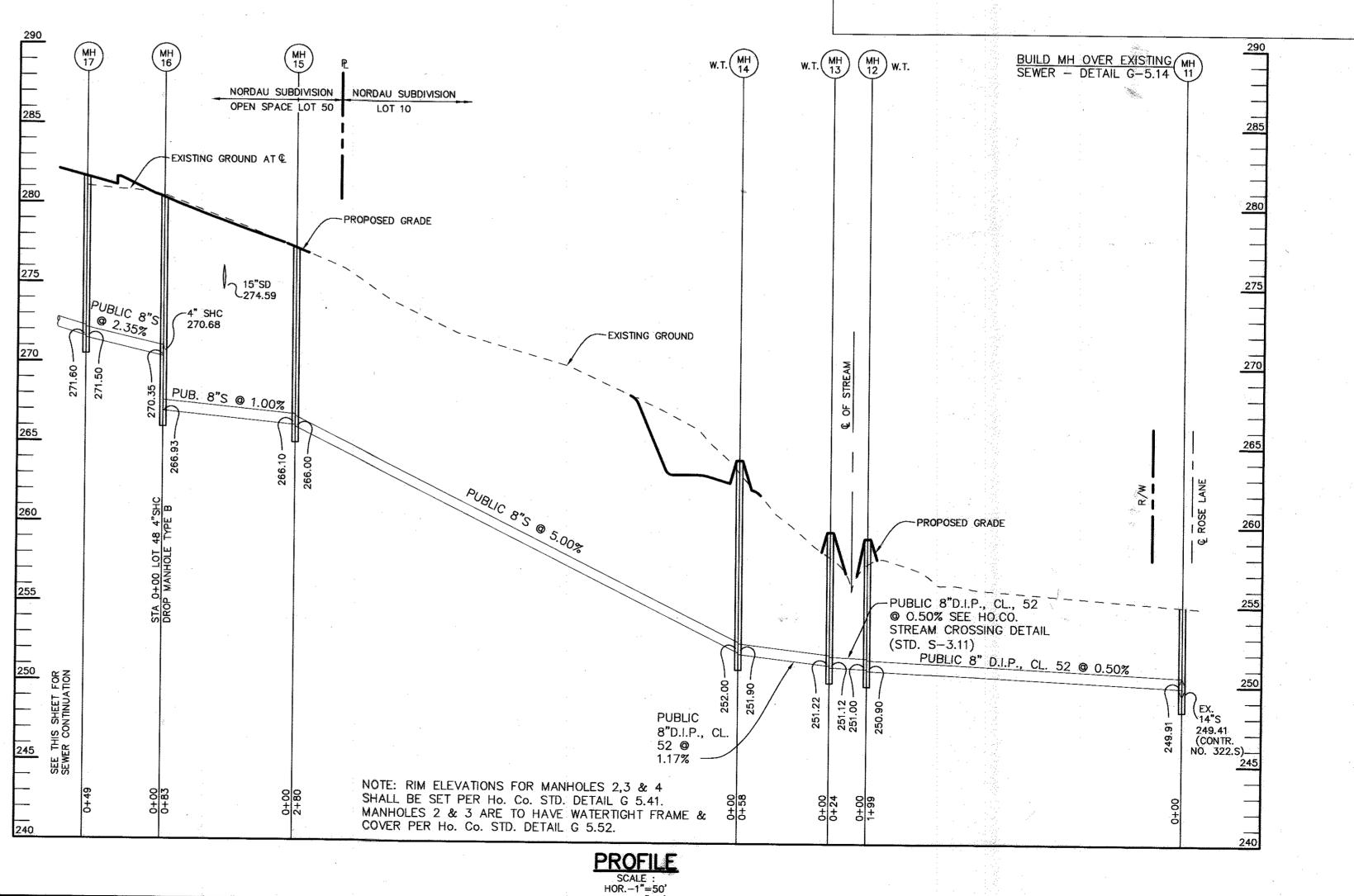












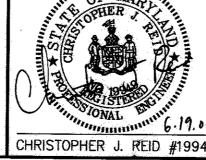
DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, BUNEAU OF WILITIES DATE

DEPARTMENT OF PLANNING & ZONING

HOWARD COUNTY, MARYLAND Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects.

Columbia, MD 21045 F 410.997.9282



	DES: C.J.R.		_
	DRN: DAM		_ <
	CHK: C.J.R.	3 EM.R. ADD WHC AND SHC FOR LOTS 55 \$56	
<b>62</b> 949	DATE: 6/19/0	BY NO. REVISION	_
			-

PROFILES OF WATER AND SEWER MAINS

600' SCALE MAP NO. \_\_\_\_\_\_\_ BLOCK NO. \_\_\_\_\_\_24

NORDAU SUBDIVISION SECTION G, LOTS 40-56 A RESUBDIVISION OF LOTS 35-37 AND 39 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4084-D

SCALE AS SHOWN SHEET 3\_0F\_3\_