

WATER AND SEWER EXTENSIONS

SALVATION ARMY

THRIFT STORE & DONATION CENTER

6th ELECTION DISTRICT

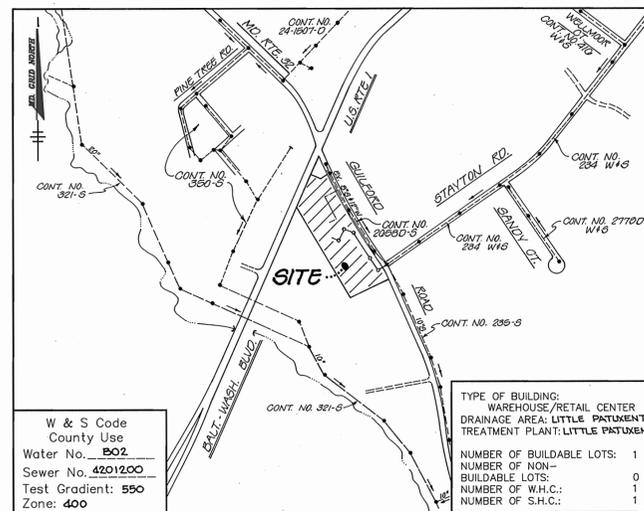
HOWARD COUNTY, MARYLAND

CONTRACT NO. 24 - 3533 - 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 supply. Any damage incurred shall be repaired immediately to the satisfaction of the Engineer at the Contractor's expense.
2. All horizontal controls are based on Maryland State Coordinates.
3. All vertical controls are based on U.S.G.S. data.
4. All pipe elevations shown \curvearrowright are invert elevations.
5. 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 additional 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.
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 \square 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. Contractor shall notify the following utility companies or agencies at least five working days before starting work shown on these plans:

State Highway Administration	531-5533
Baltimore Gas & Electric Co.	850-4620
Baltimore Gas & Electric Co. Contractor Services	787-9068
Miss Utility	1-800-257-7777
Colonial Pipeline Co.	795-1390
Bureau of Utilities, Howard County Department of Public Works	313-4900
9. 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.
10. 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.
11. All water mains to be D.I.P. Class 52 unless otherwise noted.
12. Tops of all water mains to have a minimum of 3'-1/2' cover unless otherwise noted.
13. Valves adjacent to tees shall be strapped to tees.
14. All fittings shall be buttressed or anchored with concrete in accordance with the Standard Details unless otherwise provided for on the drawings.
15. 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 Standard Details. Soil around the fire hydrant shall be compacted in accordance with Section 1000 and 1005 of the Standard Specifications.
16. The contractor shall not operate any water main valves on the existing water system.
17. All water house connections shall be for inside meter setting unless otherwise noted on plans or in specifications.
18. All sewer mains shall be D.I.P. and P.V.C. unless otherwise noted.
19. All manholes shall be 4'-0" inside diameter unless otherwise noted.
20. Force mains shall be D.I.P. only.
21. Manholes shown with 12" and 16" walls are for brick manholes only.
22. Manholes designated W.T. in plan and profile shall have watertight frame and covers, Standard Detail 65.52. Where watertight manhole frame and cover is used, set top of frame 1'-6" above finished grade unless otherwise noted on the drawings.
23. House(s) with the symbol "C.N.S." indicates that cellar cannot be served.
24. Manholes can be either brick or precast concrete structures.
25. Contractor is solely responsible for construction means, methods, techniques, sequences, procedures, and safety precautions and programs.
26. The fire hydrant shall be installed as per standard detail W.1.11.
27. Fire hydrants will be located 3' FROM BACK OF CURB unless otherwise noted.
28. For sprinkler systems, all townhomes or multi-family dwelling units should have a minimum of 1" connection with a 3/4" meter.
29. The contractor shall notify the Bureau of Highways, Howard County, at (410) 313-7450 at least five (5) working days before any open cut of any County road or boring/jacking operation in County roads 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.



VICINITY MAP
SCALE: 1"=600'

BENCH MARKS

HOWARD COUNTY CONTROL STATION # 2483 ELEV. = 385.295
 N. 506461.201, E. 1329228.385 (NAVD83)
 CONC. MON. 18" SOUTH OF S. EDGE OF RTE. 40 EAST TRAFFIC LANE
 150' EAST OF E. END OF SUNOCO STATION OPPOSITE DOCTORS BLDG.

HOWARD COUNTY CONTROL STATION # 3242002 ELEV. = 400.780
 N. 520786.055, E. 8482475.765 (NAVD83)
 CONC. MON. 8" SURFACE 1" N. OF EDGE OF MAC. SHOULDER OF
 RTE. 40 WEST 150' OF ST. JOHN'S LANE.

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
8" WATER	76 LF	79 L.F.	D.I.P.	GRIFFIN PIPE
6" WATER	31 LF	27 L.F.	D.I.P.	" "
8" D.I.P. CL. 52 SEWER	98 LF	94 L.F.	D.I.P.	" "
FIRE HYDRANTS	1 EA.	1 EA.	CAST IRON	KENNEDY
8"x6" REDUCER	1 EA.	1 EA.	D.I.P.	GRIFFIN PIPE
6" VALVES	2 EA.	2 EA.	CAST IRON/GATE VALVE	KENNEDY
8" VALVES	1 EA.	1 EA.	CAST IRON/GATE VALVE	"
12"x8" TAPPING SLEEVE	1 EA.	1 EA.	STAINLESS STEEL	FORD
24" STEEL CASING	53 LF.	54 L.F.	STEEL	BALTIMORE PIPE
MANHOLE	1 EA.	1 EA.	PRECAST CONC.	AMEL CAST

NAME OF UTILITY CONTRACTOR: **ACCUBID EXCAVATION INC.**

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SOP 96-98	CHECKBOX
	AS-BUILT DATE
	SURVEY AND DRAFTING DIVISION

Review for Howard Soil Conservation District and meets technical requirements.

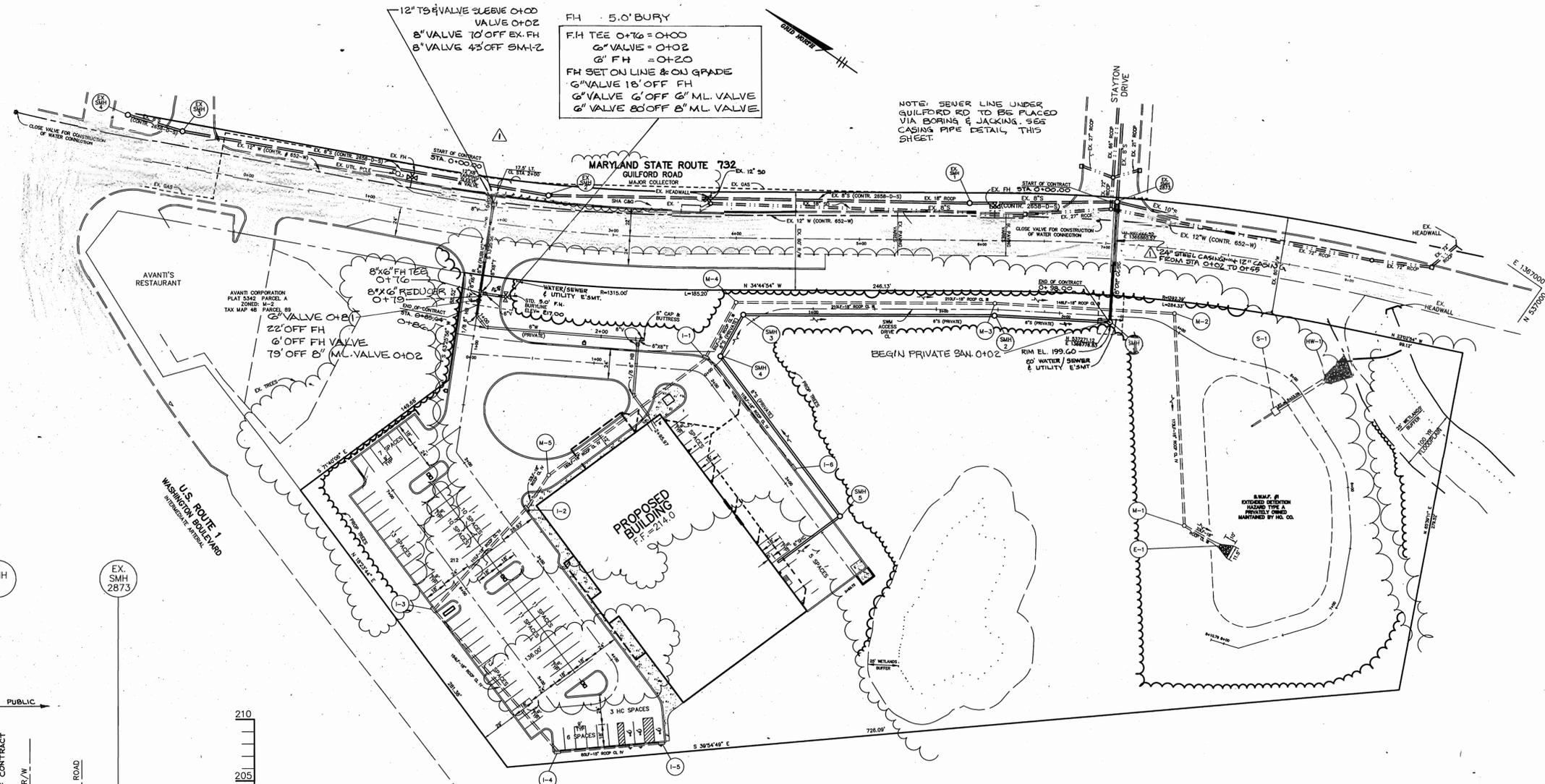
J. A. Workfield III 7/1/96
 NATURAL RESOURCES CONSERVATION SERVICE DATE

This plan is approved for soil erosion and sediment control by the Howard Soil Conservation District.

John P. Robertson 7/1/96
 HOWARD SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Michael A. Romano for</i> 6/26/96 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>Howard</i> 7/1/96 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 8000/0000 00.DWG	DES: JTD DRN: BLW CHK: DATE: 6/19/96 RJC 1 DELETED 24" ST'L CASING FROM QIANT. LIST 9/18/97 BY NO. REVISION DATE	TITLE SHEET 600' SCALE MAP NO. 48 BLOCK NO. 7	SALVATION ARMY THRIFT STORE & DONATION CENTER PARCEL 95 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-3533-D	SCALE AS SHOWN SHEET 1 OF 2
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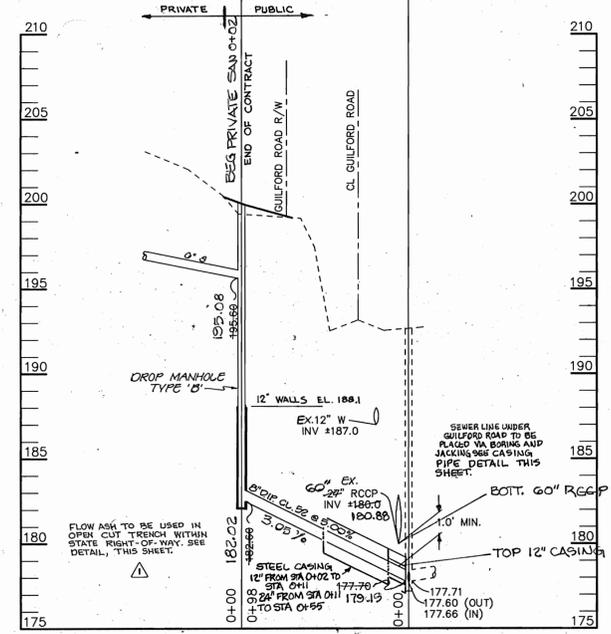
WATER & SANITARY AS BUILTS



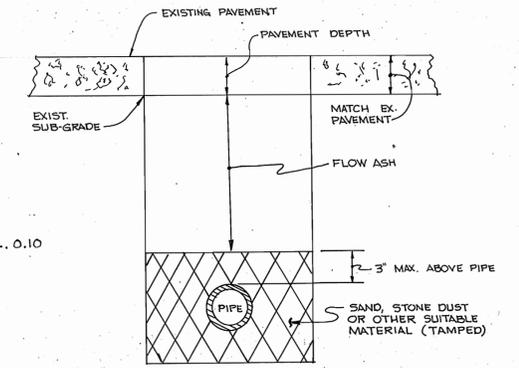
FH 5.0' BURY
 F.H TEE 0+16 = 0+00
 6\"/>

NOTE: SEWER LINE UNDER
 GUILFORD RD TO BE PLACED
 VIA BORING & JACKING. SEE
 CASING PIPE DETAIL, THIS
 SHEET.

- NOTES:
1. BORE PIT, FOR BORING AND JACKING OPERATIONS LOCATED CLOSER THAN 24' FROM THE ROAD EDGE WILL REQUIRE THE USE OF STEEL PLATES (PER SHA STANDARDS AND SPECIFICATIONS) TO COVER THE PIT AT THE END OF EACH WORKING DAY.
 2. REGENERATION PITS WILL BE WITHIN THE STATE HIGHWAY RIGHT OF WAY AND WILL BE PLACED AT NIGHT PER SHA STANDARDS & SPECIFICATIONS.
 3. DURING OPERATIONS WE ANTICIPATE THE USE OF MD SHA STANDARDS 105.101 AND 105.105.
 4. UTILITY WORK IS PERMITTED BETWEEN THE HOURS OF 9:00 AM AND 3:00 PM.

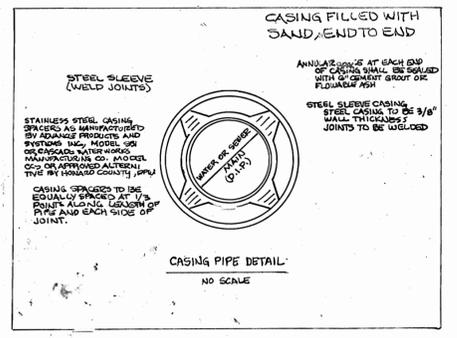


SEWER PROFILE
 SCALE:
 HOR. - 1" = 50'
 VERT. - 1" = 5'

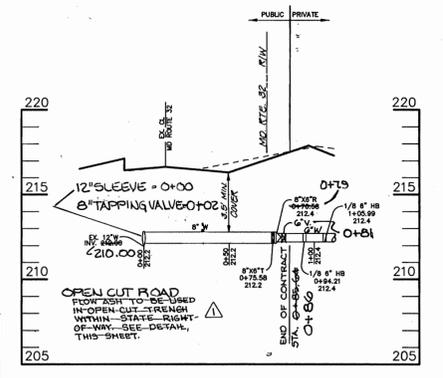


FLOW ASH DETAIL
 NOT TO SCALE

PLAN
 SCALE: 1" = 50'



CASING PIPE DETAIL
 NO SCALE



WATER PROFILE
 SCALE:
 HOR. - 1" = 50'
 VERT. - 1" = 5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Michael A. Hussain</i> CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND <i>John J. Williams</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	RIEMER MUEGGE & ASSOCIATES, INC. ENGINEERING • ENVIRONMENTAL SERVICES • PLANNING • SURVEYING 8818 Centre Park Drive • Suite 200 • Columbia, MD 21045 410-997-8900 FAX: 410-997-9282 HOCO/00000 00.DWG <i>J. Savath</i> JAYKANT D. PAREKH # 19148	DES: JTD						PLAN AND PROFILE SHEET	SALVATION ARMY THRIFT STORE & DONATION CENTER PARCEL 95 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT 24-3533-D	SCALE AS SHOWN
			DRN: BLW								
			CHK:								
			DATE: 6/19/96	RJC BY NO.	DELETED ALL REFERENCES BORING & JACKING, ADDED NOTATIONS AND DETAIL FLOW ASH/OPEN CUT TRENCH.	3/18/97					
					REVISION	DATE:	600' SCALE MAP NO. 48 BLOCK NO. 7				