SHEET INDEX

NO. DESCRIPTION

1 TITLE SHEET

2 WATER & SEWER MAIN PLAN AND PROFILES

QUANTITIES

ESTIMATED

350 L.F.

462 L.F.

1 EACH

70 L.F.

154 L.F.

1 EACH

2 EACH

880 L.F.

6 EACH

304 L.F.

SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

8" WATER

4" WATER

4" VALVES

1" WHC

1 1/2" WHC

1 1/2" DRAIN

FIRE HYDRANT

8" SEWER

MANHOLES

NAME OF UTILITY CONTRACTOR:

EXIST. WATER MAIN

EXIST. SEWER MAIN

PROP. WATER MAIN

PROP. SEWER MAIN

PROP. STORM DRAIN

(BY OTHERS)

PROP. FIRE HYDRANT

PROP. PLUG & BUTTRESS

HOWARD SOIL CONSERVATION DISTRICT:

AND MEETS TECHNICAL REQUIREMENTS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WHELE BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER

CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

PROP. VALVE

PROP. SEWER MANHOLE

PROP. TERMINAL MANHOLE

PROP. SEWER HOUSE CONNECTION

PROP. WATER HOUSE CONNECTION

(DOUBLE -11/2")

PROP. WATER HOUSE CONNECTION

(SINGLE - 1")

EXIST. SEWER MANHOLE

QUANTITIES

QUANTITIES

AS-BUILT

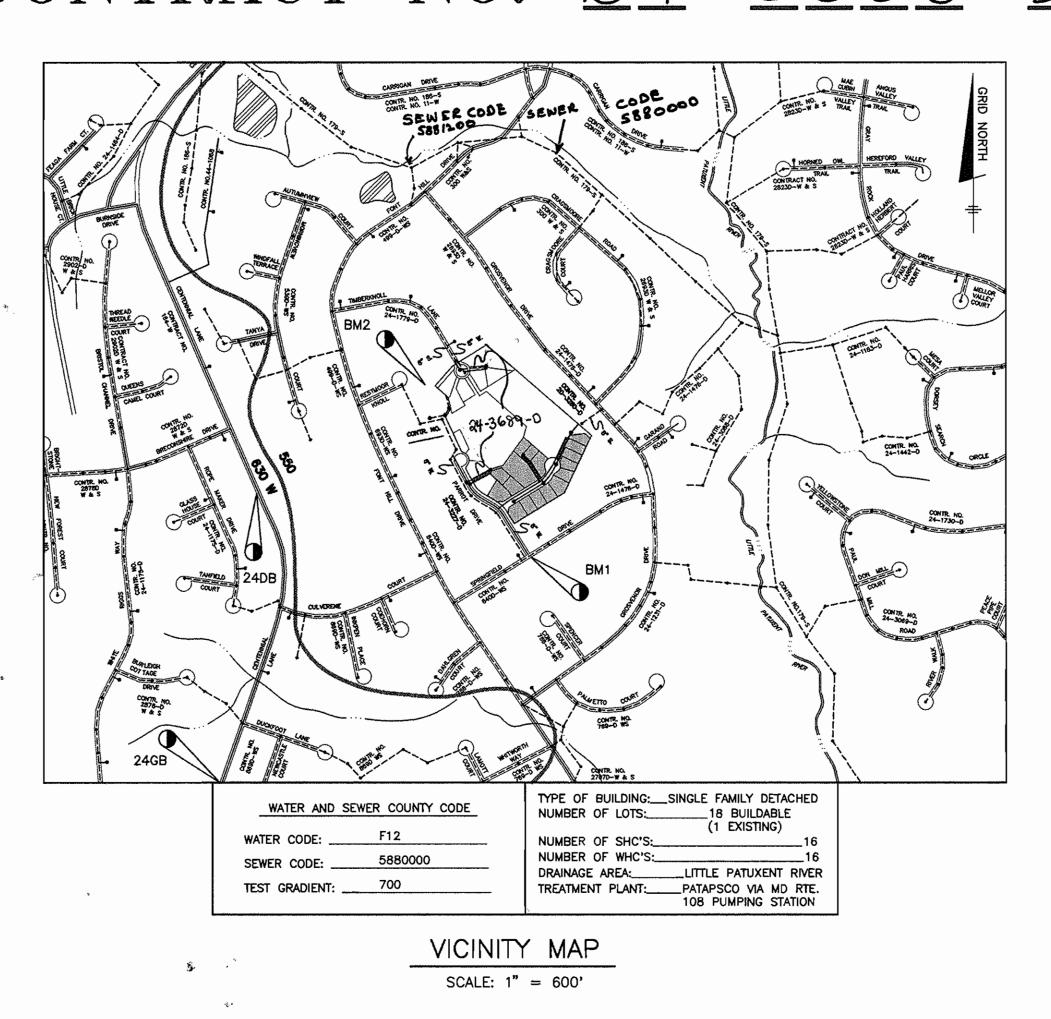
MANUF./SUPPLIER

PUBLIC WATER AND SEWER CONSTRUCTION PLANS

FONT HILL MANOR FARM ESTATES SECTION 2

CIIUIN &
PHASE 2

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3653-D



GENERAL NOTES

BENCH MARKS

BM 1 ELEV. 421.62 X CUT IN TOP OF FH ON SOUTHWEST CORNER OF PARROTT DRIVE & SPRING FIELD DRIVE.

TOP OF MH NEAR THE NORTHERNMOST CORNER OF LOT 10 FONT HILL MANOR FARM ESTATES.

HO. CO. NO.24DB NAD '83
SURVEY DISC SET ON CONC. MONUMENT LOCATED
AT THE SOUTHWEST CORNER OF THE ENTRANCE
TO CENTENNIAL ELEMENTARY SCHOOL AT THE
INTERSECTION WITH CENTENNIAL LANE.
N-582,098.3273 E-1,351,468.5648

HO. CO. NO.24GB

ALUMINUM CAP SET ON 3/4" REBAR SET FLUSH
WITH GROUND LOCATED AT THE SOUTHEAST
CORNER OF THE INTERSECTION BETWEEN
CENTENNIAL LANE & OLD ANNAPOUS ROAD.
N-579,069.4623

E-1,350,441.8549

VERTICAL CONTROLS

PART 1 - GENERAL

- 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.
- 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 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 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:

- BUREAU OF UTILITIES.......313-4900

 3. 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.
- O. 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. PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- 12. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE 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.

PART 2 - WATER

- 1. 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.

 5. 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.

 6. 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.

PART 3 - SEWER

- ALL SEWER MAINS SHALL BE DIP OR P.V.C. UNLESS OTHERWISE NOTED.
 THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN
- 2' 0" OF EXTERIOR MANHOLE WALL.

 3. ALL MANHOLES SHALL BE 4' 0" INSIDE DIAMETER UNLESS OTHERWISE
- 4. FORCE MAINS SHALL BE D.I.P. ONLY,
 5. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES
- ONLY.

 6. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE
 WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52 WHERE
- WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME

 1" 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE

 DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

ROAD CONSTRUCTION PLANS F-98-118

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

TSA GROUP, INC.
planning • engineering • surveying

8480 Baltimore National Pike

Suite 418 ~ Ellicott City, Maryland 21043

PLAN

LOT 40

EX LOT 33

MCE = 427.6

EX. 30' PUBLIC WATER, SEWER AND UTILITY EASEMENT—

CONTR. No. 24-3689.01

V7 18 8 5 -0

MCE = 428.2

MCE = 428.3

EX.LOT 32

MCE = 427.2

ng Omall Man

	DES:	GWF			***		
lm	DRN:	MCR					TITLE F
Maar	CHK:	DAM					
S. C. S. C. S.	DATE:	3/98	BY	NO.	REVISIONS	DATE	600 SCALE MAPS: W24 & S24

TITLE PAGE

BLOCKS: 8 & 14

FONT HILL MANOR FARM ESTATES SECTION 2

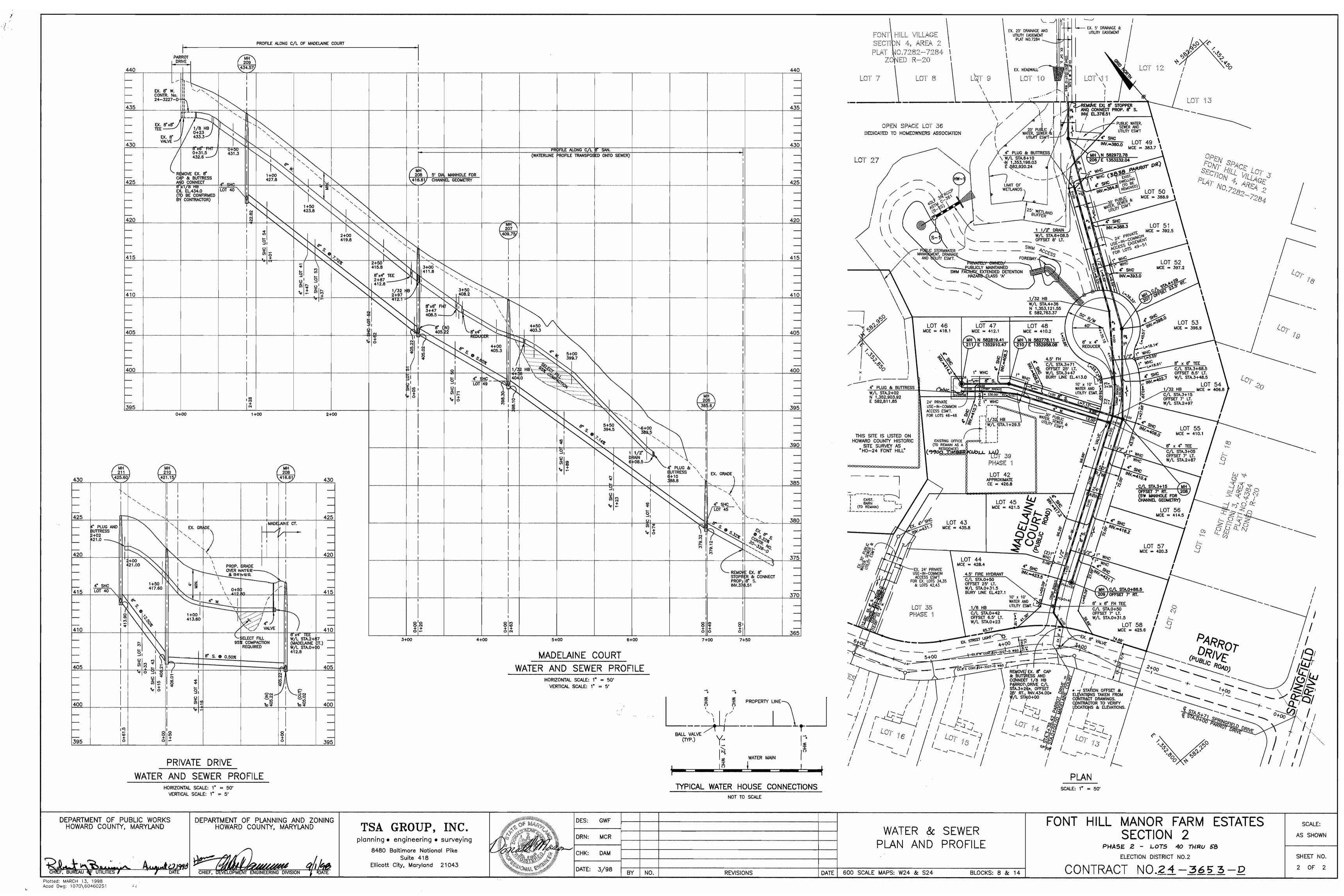
PHASE 2 - LOTS 40 THRU 58
ELECTION DISTRICT NO.2

CONTRACT NO.24 - 3653 - D

SHEET NO.

SCALE:

Plotted: MARCH 13, 1998 Acad Dwg: 1070\600902S1



SHEET INDEX 2 WATER & SEWER MAIN PLAN AND PROFILE

ESTIMATED

350 L.F.

450 L.F.

1 EACH

70 L.F.

154 L.F.

1 EACH

2 EACH

880 L.F.

6 EACH

304 L.F.

SURVEY AND DRAFTING DIVISION AS-BUILT DATE

LEGEND

8" WATER

4" WATER

4" VALVES

1" WHC

1 1/2" WHC

1 1/2" DRAIN

FIRE HYDRANT

8" SEWER

MANHOLES

4" SHC

NAME OF UTILITY CONTRACTOR:

EXIST. WATER MAIN

EXIST. SEWER MAIN

PROP. WATER MAIN

PROP. SEWER MAIN

PROP. STORM DRAIN

(BY OTHERS)

PROP. FIRE HYDRANT

PROP. PLUG & BUTTRESS

HOWARD SOIL CONSERVATION DISTRICT:

AND MEETS TECHNICAL REQUIREMENTS

REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT

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SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WHELE BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER

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PROP. VALVE

PROP. SEWER MANHOLE

PROP. TERMINAL MANHOLE

PROP. SEWER HOUSE CONNECTION

PROP. WATER HOUSE CONNECTION

(DOUBLE -11/2")

PROP. WATER HOUSE CONNECTION

(SINGLE - 1")

EXIST. SEWER MANHOLE

QUANTITIES

QUANTITIES

AS-BUILT

MANUF./SUPPLIER

PUBLIC WATER AND SEWER CONSTRUCTION PLANS

FONT HILL MANOR FARM ESTATES

SECTION 2

PHASE 2

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3653-D

SEWER CODE SENER CONTR. NO. 24-1442-D 28780 W & S TYPE OF BUILDING:__SINGLE FAMILY DETACHED WATER AND SEWER COUNTY CODE NUMBER OF LOTS:____ (1 EXISTING) WATER CODE: __ NUMBER OF SHC'S:_ NUMBER OF WHC'S:__ 5880000 SEWER CODE: ____ ___LITTLE PATUXENT RIVER DRAINAGE AREA:____ 700 TEST GRADIENT: TREATMENT PLANT:_____PATAPSCO VIA MD RTE. 108 PUMPING STATION VICINITY MAP SCALE: 1'' = 600'

GENERAL NOTES

BENCH MARKS

BM 1 ELEV. 421.62 X CUT IN TOP OF FH ON SOUTHWEST CORNER

TOP OF MH NEAR THE NORTHERNMOST CORNER OF LOT 10 FONT HILL MANOR FARM ESTATES.

HO. CO. NO.24DB

SURVEY DISC SET ON CONC. MONUMENT LOCATED
AT THE SOUTHWEST CORNER OF THE ENTRANCE
TO CENTENNIAL ELEMENTARY SCHOOL AT THE

INTERSECTION WITH CENTENNIAL LANE. N-582,098.3273 E-1,351,468.5648

HO. CO. NO.24GB NAD '83
ALUMINUM CAP SET ON 3/4" REBAR SET FLUSH
WITH GROUND LOCATED AT THE SOUTHEAST
CORNER OF THE INTERSECTION BETWEEN

E-1,350,441.8549

CENTENNIAL LANE & OLD ANNAPOLIS ROAD.

HORIZONTAL CONTROLS

N-582,098.3273

PART 1 - GENERAL

- 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. 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 ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY
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- ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION..... BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES..... ..850-4620 BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL. .787-9068 MISS UTILITY1-800-257-7777 COLONIAL PIPELINE CO.. ..795–1390 HOWARD CO. DEPT. OF PUBLIC WORKS BUREAU OF UTILITIES

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP
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PART 2 - WATER

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- UNLESS OTHERWISE NOTED. 3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
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- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

ROAD CONSTRUCTION PLANS F-98-118

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

TSA GROUP, INC. planning • engineering • surveying 8480 Baltimore National Pike Suite 418 Ellicott City, Maryland 21043

PLAN SCALE: "1" = 50

LOT 40

EX.LOT 33

MCE = 427.6.

CONTR. No. 24-3689-DI

5/ Ex.8" 5 -0

MCE = 428.2

MCE = 428.3

EX.LOT 3Z

MCE = 427.2



	DES:	GWF								
	DRN:	MCR								
	CHK:	DAM								
		- /	5	1	REYISE	WHC & SHC	FOR	RESUB.	LOTS	6/8/9
	DATE:	3/98	BY	NO.	REVISIONS			DATE		

TITLE PAGE

BLOCKS: 8 & 14

600 SCALE MAPS: W24 & S24

FONT HILL MANOR FARM ESTATES SECTION 2

CONTRACT NO.24 - 3653 - D

PHASE 2 - LOTS 40 THRU 48 + 53-62 **ELECTION DISTRICT NO.2**

AS SHOWN SHEET NO. 1 OF 2

SCALE:

Plotted: MARCH 13 1998 Acad Dwg: 1070\600902S1

