

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER MAIN PLAN AND PROFILES

PUBLIC WATER AND SEWER CONSTRUCTION PLANS FONT HILL MANOR FARM ESTATES SECTION 2

PHASE 1

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3689-D

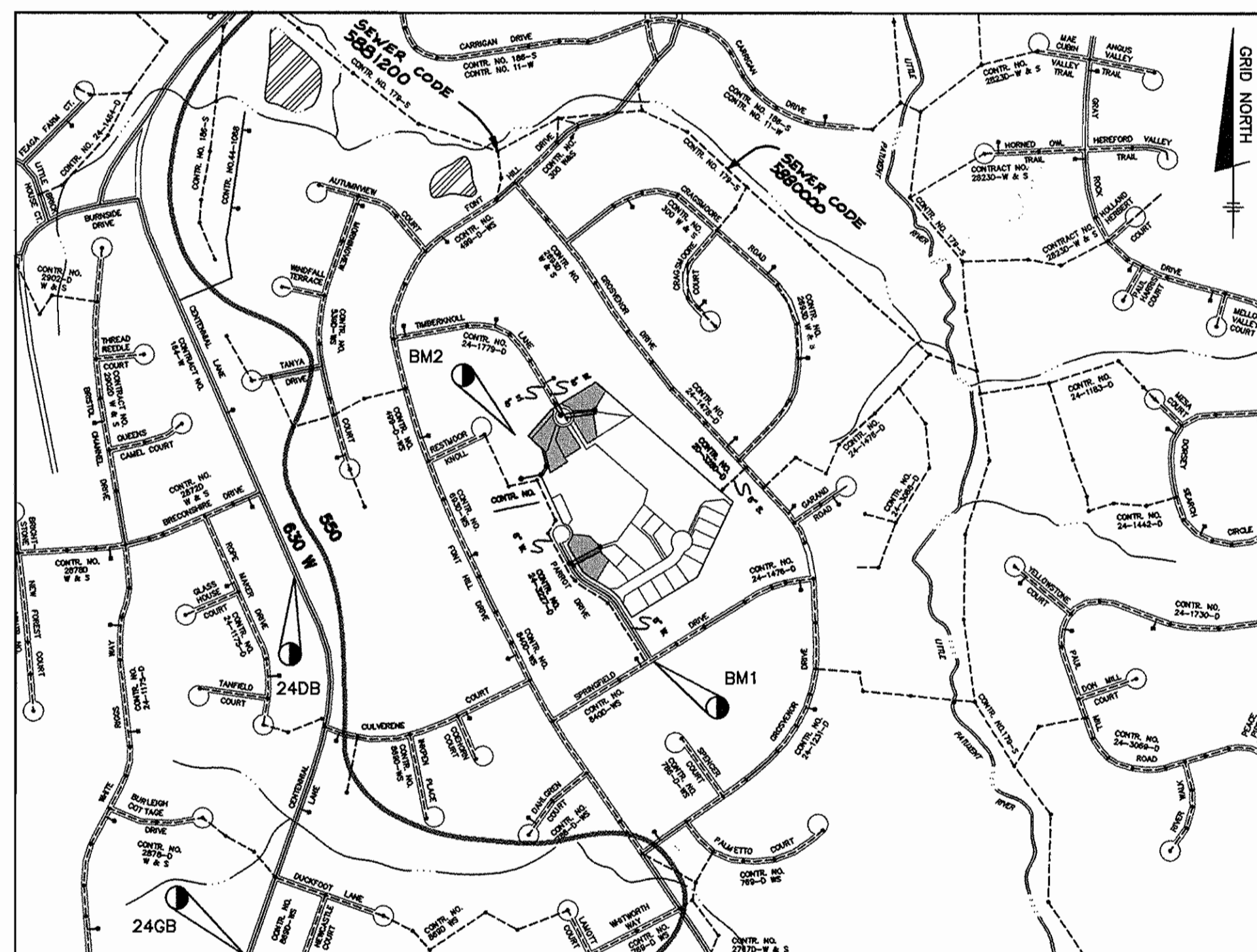
BENCH MARKS	
VERTICAL CONTROLS	
BM 1	ELEV. 421.62 X CUT IN TOP OF FH ON SOUTHWEST CORNER OF PARROTT DRIVE & SPRING FIELD DRIVE.
BM 2	ELEV. 405.23 TOP OF MH NEAR THE NORTHERN CORNER OF LOT 10 FONT HILL MANOR FARM ESTATES.
HORIZONTAL CONTROLS	
HO. CO. NO. 2409	MAD '83 SURVEY DISC SET ON CONC. MONUMENT 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. 2408	MAD '83 ALUMINUM CAP SET ON 3/4" REBAR SET FLUSH WITH GROUND LOCATED AT THE SOUTHWEST CORNER OF THE INTERSECTION BETWEEN CENTENNIAL LANE & OLD ANNAPOLIS ROAD. N-579,098.4623 E-1,350,441.8549

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" WATER	95 L.F.			
4" WATER	273 L.F.			
4" VALVES	1 EACH			
8"x4" T.S.&V.	1 EACH			
1" WHC	171 L.F.			
1 1/2" WHC	90 L.F.			
8" SEWER	528 L.F.			
MANHOLES	7 EACH			
4" SHC	215 L.F.			

NAME OF UTILITY CONTRACTOR:
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

LEGEND

EXIST. WATER MAIN	----
EXIST. SEWER MAIN	----
EXIST. SEWER MANHOLE	○
PROP. WATER MAIN	====
PROP. SEWER MAIN	====
PROP. STORM DRAIN (BY OTHERS)	====
PROP. SEWER MANHOLE	○
PROP. TERMINAL MANHOLE	○
PROP. SEWER HOUSE CONNECTION	---
PROP. WATER HOUSE CONNECTION (DOUBLE - 1 1/2")	---
PROP. WATER HOUSE CONNECTION (SINGLE - 1")	---
PROP. FIRE HYDRANT	---
PROP. VALVE	---
PROP. PLUG & BUTTRESS	---



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING: SINGLE FAMILY DETACHED	
WATER CODE:	F12	NUMBER OF LOTS:	7 BUILDBLE (1 EX., 3 FUTURE)
SEWER CODE:	5880000 + 5881200	NUMBER OF SHC'S:	11
TEST GRADIENT:	700	NUMBER OF WHC'S:	11
		DRAINAGE AREA:	LITTLE PATUXENT RIVER
		TREATMENT PLANT:	PATAPSCO VIA MD RTE. 108 PUMPING STATION

VICINITY MAP
SCALE: 1" = 600'

GENERAL NOTES

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.
- 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 MADE SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
- THE 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.....787-9068
 - UNDERGROUND DAMAGE CONTROL.....1-800-257-7777
 - MISS UTILITY.....795-1390
 - COLONIAL PIPELINE CO.....313-4900
 - HOWARD CO. DEPT. OF PUBLIC WORKS.....313-4900
 - BUREAU OF UTILITIES.....313-4900
- 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.
- PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
- 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(g) OF THE HOWARD COUNTY CODE.

PART 2 - 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 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.

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.
- ALL MANHOLES SHALL BE 4' - 0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 18" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS. STANDARD DETAIL 05.52, WHERE WATER-TIGHT 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.

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

Clay Simons /cs. 8/31/98
NATURAL RESOURCES CONSERVATION SERVICE DATE

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

Steve Selby 8/31/98
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE
IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE
HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER
ROAD CONSTRUCTION PLANS F-98-117

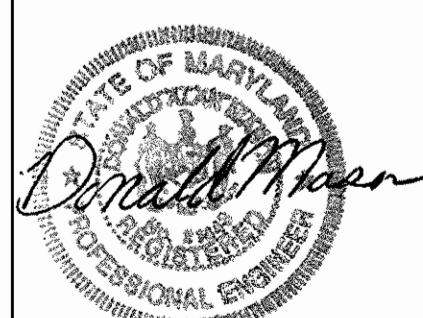
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth Dunning August 27, 1998
CHIEF, BUREAU OF UTILITIES DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Chris Dunning 9/1/98
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

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



DES:	GWF				
DRN:	MCR				
CHK:	DAM				
DATE:	3/98				
BY	NO.	REVISIONS	DATE		

TITLE PAGE

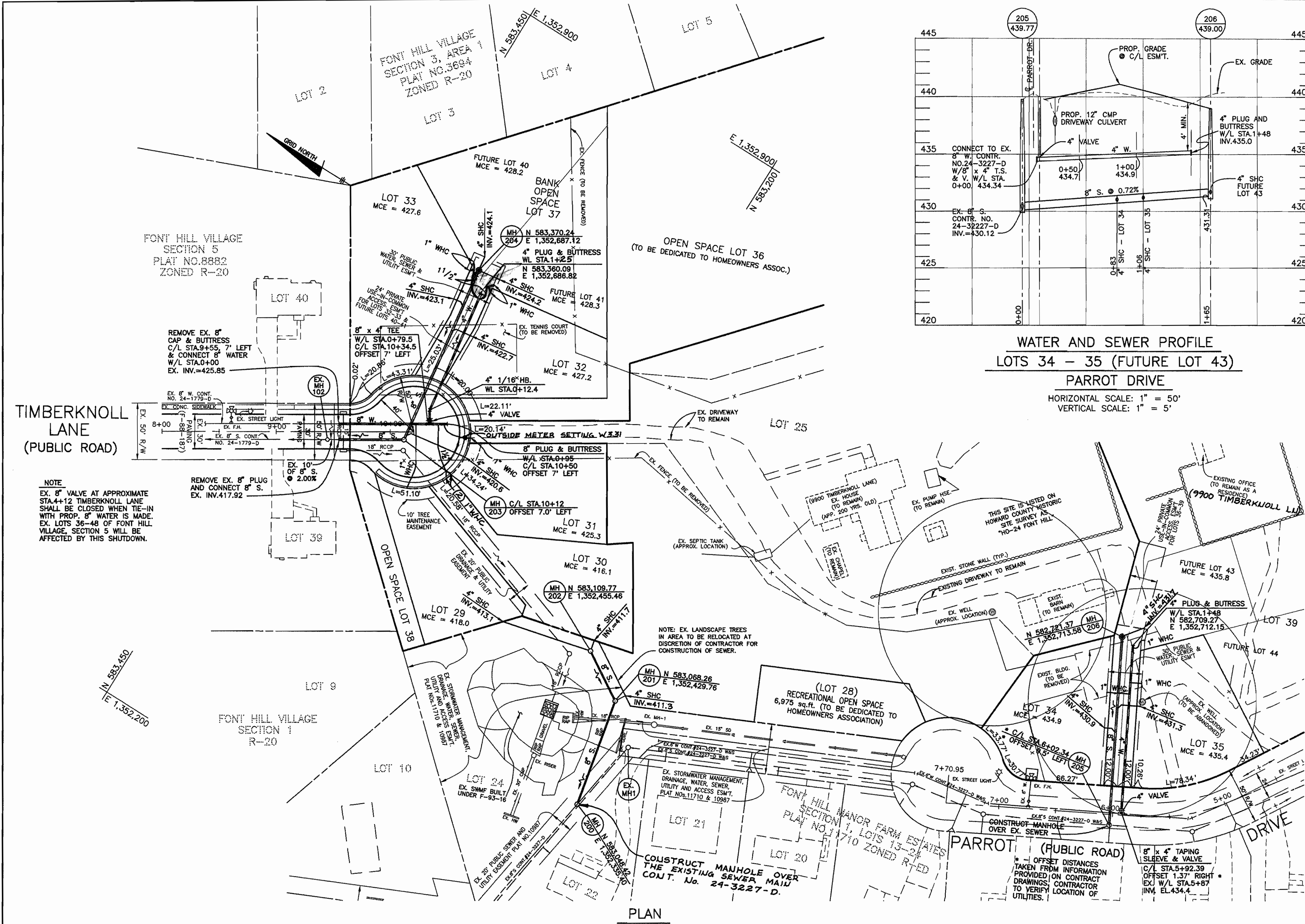
600 SCALE MAPS: W24 & S24 BLOCKS: 8 & 14

**FONT HILL MANOR FARM ESTATES
SECTION 2**
PHASE 1 - LOTS 28 THRU 39
ELECTION DISTRICT NO. 2

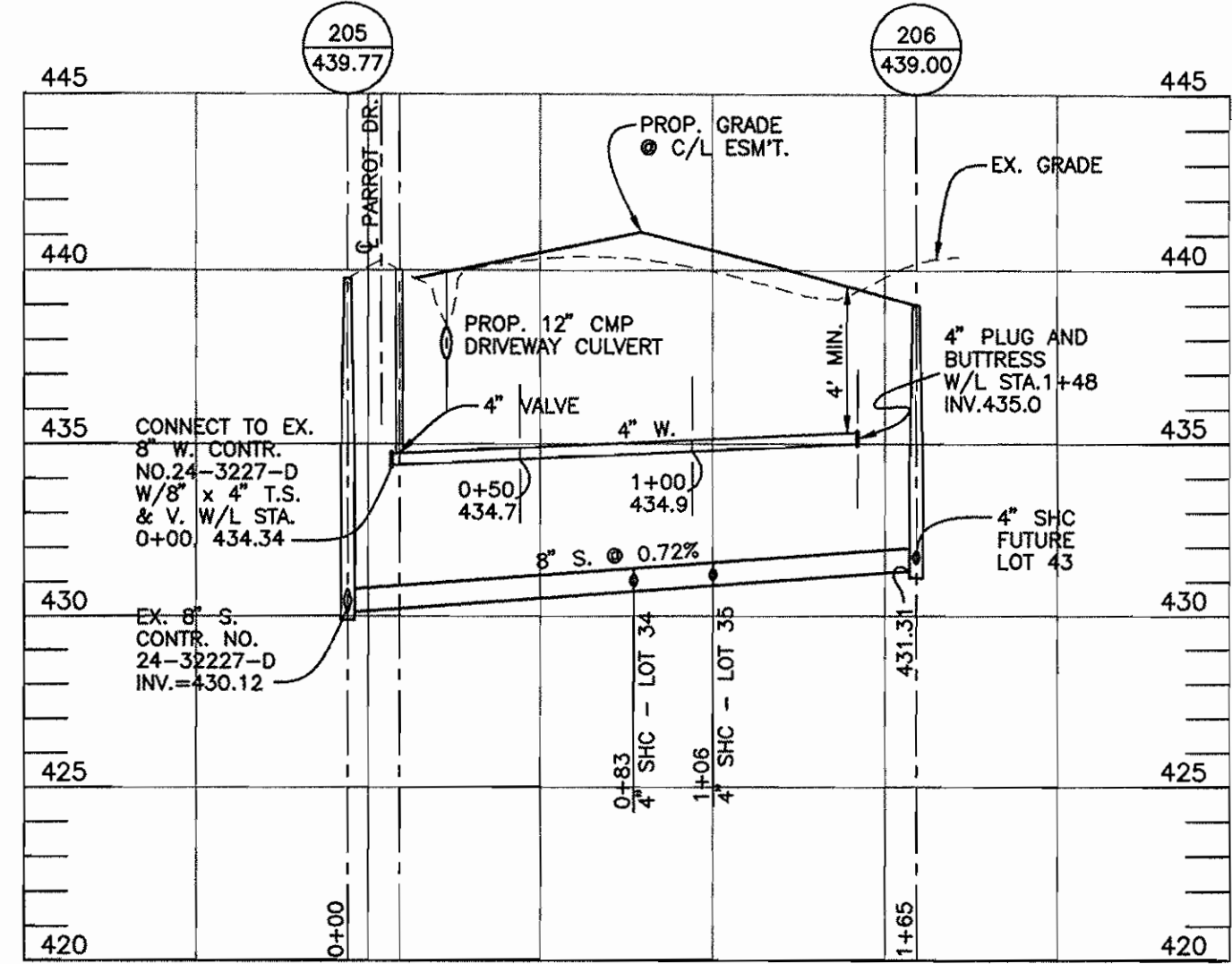
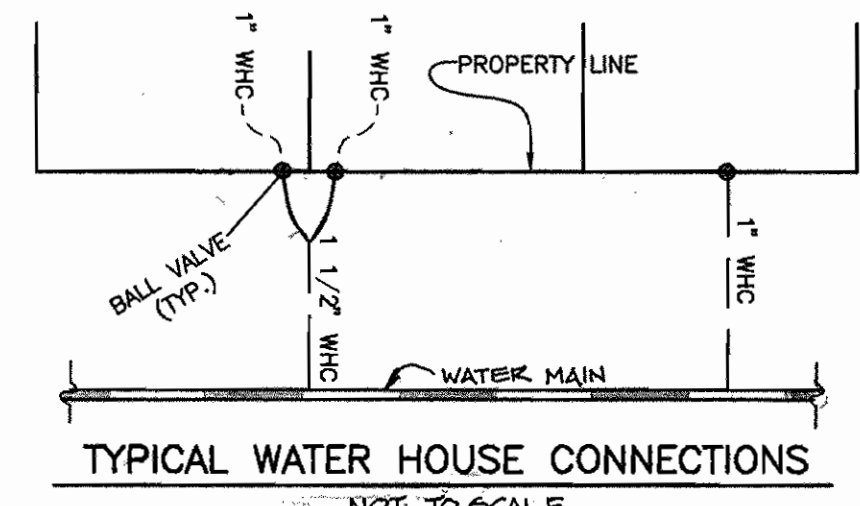
CONTRACT NO. 24-3689-D

SCALE:
AS SHOWN

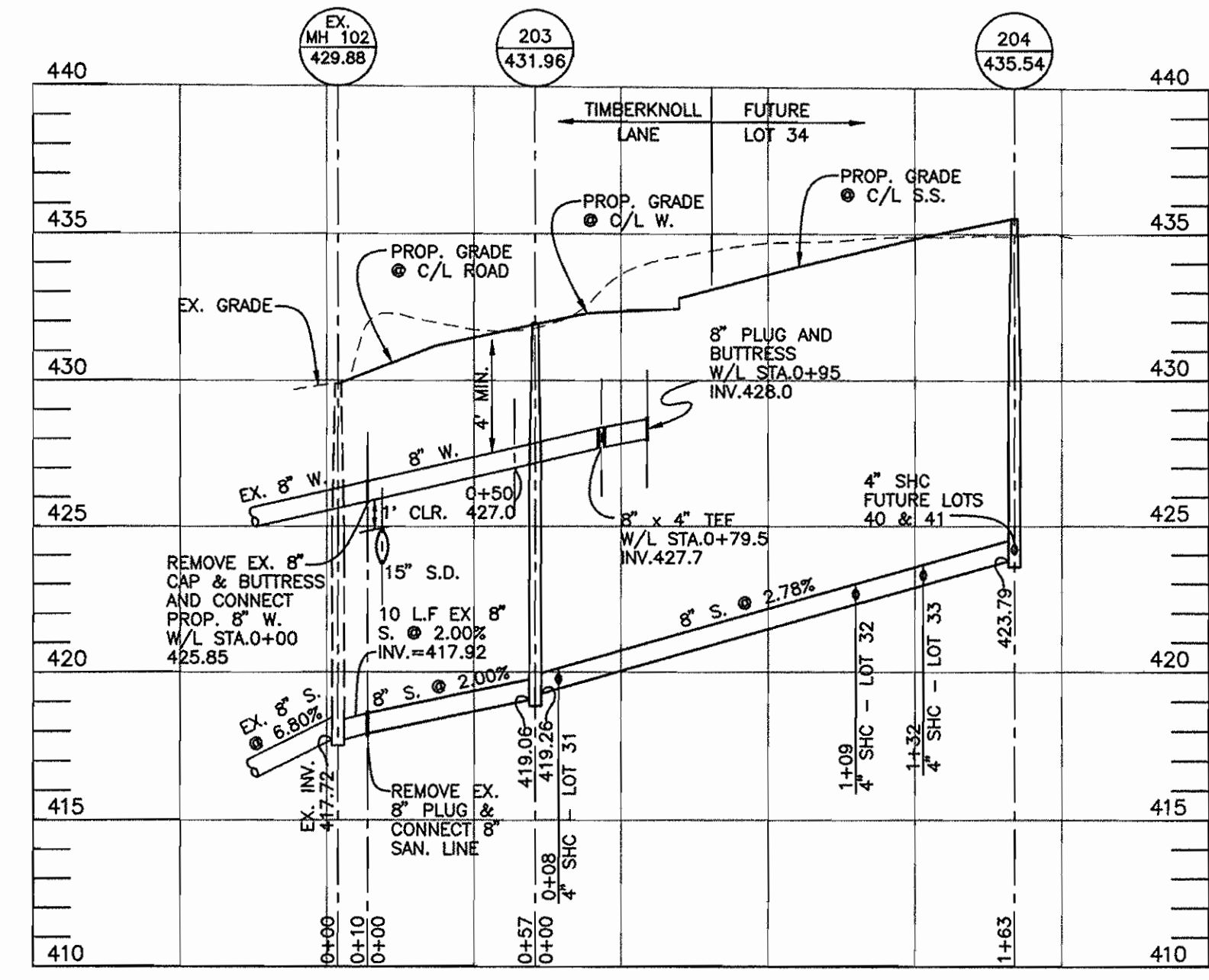
SHEET NO.
1 OF 2



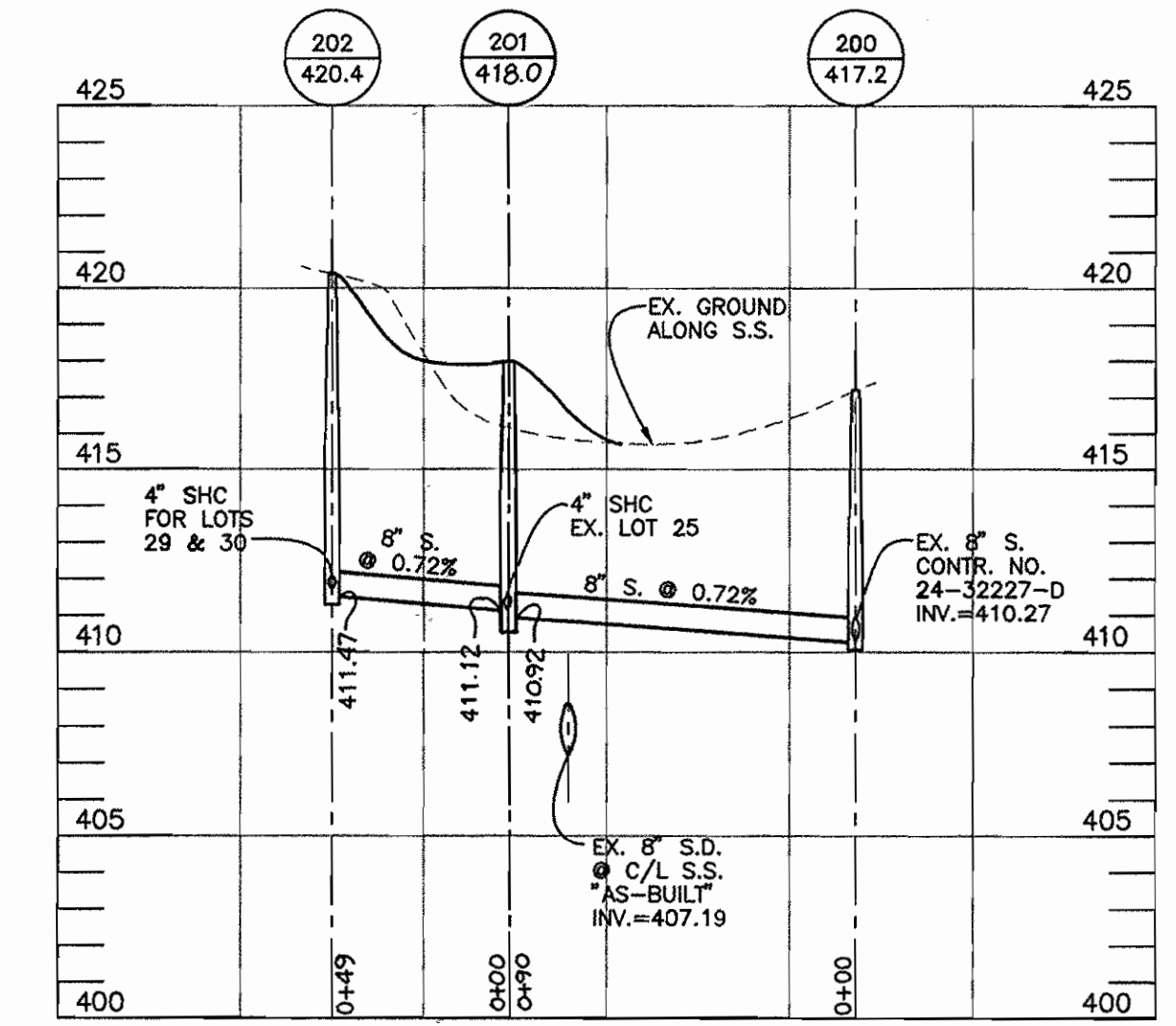
PLAN
SCALE: 1" = 50'



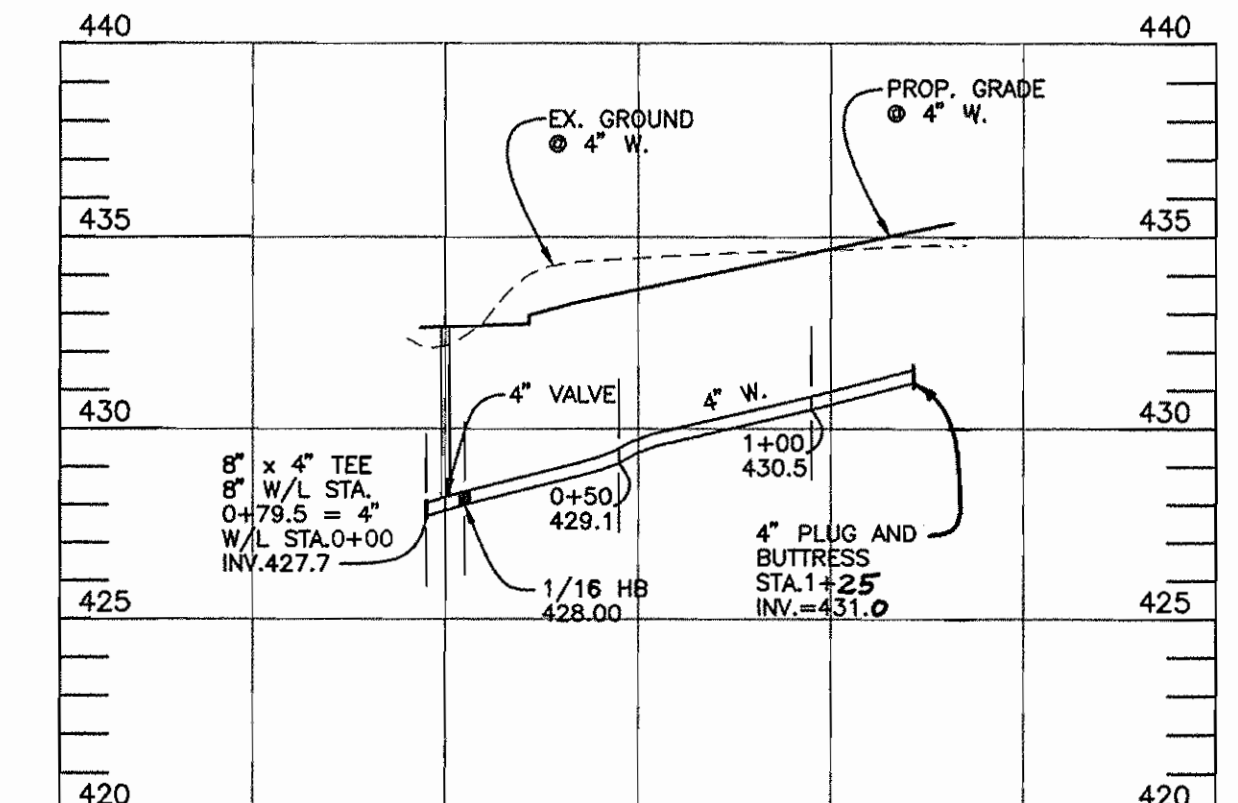
WATER AND SEWER PROFILE
LOTS 34 - 35 (FUTURE LOT 43)
PARROT DRIVE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



8" WATER & 8" SANITARY LINE PROFILE
TIMBERKNOLL LANE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



SEWER LINE PROFILE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

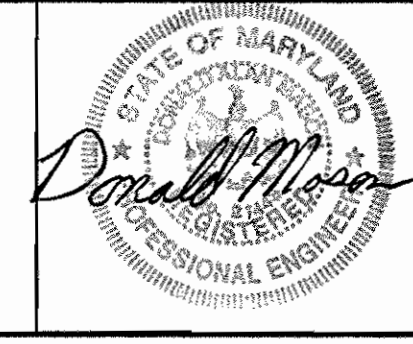


4" WATER LINE PROFILE
TIMBERKNOLL LANE
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
Plotted: MARCH 11, 1998
Acad Dwg: 1070,80460151

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND
DATE: August 27, 1998
DATE: 9/1/98

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



DES:	GWF				
DRN:	MCR				
CHK:	DAM				
DATE:	3/98	BY:	NO.	REVISIONS	DATE

WATER & SEWER
PLAN AND PROFILES
600 SCALE MAPS: W24 & S24
BLOCKS: 8 & 14

FONT HILL MANOR FARM ESTATES
SECTION 2
PHASE 1- LOTS 28 THRU 39
ELECTION DISTRICT NO.2
CONTRACT NO.24-3689-D

SCALE:
AS SHOWN
SHEET NO.
2 OF 2

SHEET INDEX	
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PUBLIC WATER AND SEWER CONSTRUCTION PLANS

FONT HILL MANOR FARM ESTATES SECTION 2

PHASE 1

2nd ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-3689-D

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
8" WATER	95 L.F.	98 L.F.	CL-52	U.S. PIPE & Fittings BELAIR ROAD SUPPLY
4" WATER	273 L.F.	273 L.F.	CL-52	U.S. PIPE & Fittings BELAIR ROAD SUPPLY
4" VALVES	1 EACH	1 EACH	REGULANT SEAT GATE VALVE	MUELLER CO. BELAIR ROAD SUPPLY
8"x4" T.S.&V.	1 EACH	1 EACH	REGULANT SEAT GATE VALVE	MUELLER CO. BELAIR ROAD SUPPLY
1" WHC	171 L.F.	182 L.F.	TYPE K	KIPALING TOBE BELAIR ROAD SUPPLY
1 1/2" WHC	90 L.F.	79 L.F.	TYPE K	KIPALING TOBE BELAIR ROAD SUPPLY
8" SEWER	528 L.F.	523 L.F.	SDR 35	J.H. MFG. CO. BELAIR ROAD SUPPLY
MANHOLES	7 EACH	7 EACH	PRECAST ASTM C-478	ATLANTIC CONCRETE PRODUCTS
4" SHC	215 L.F.	214 L.F.	SDR 35	J.H. MFG. CO. BELAIR ROAD SUPPLY

NAME OF UTILITY CONTRACTOR: W.F. WILSON & SON, INC.
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

GENERAL NOTES

PART 1 - GENERAL

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 - BALTIMORE GAS & ELECTRIC CO. CONTRACTOR SERVICES.....850-4620
 - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL.....787-9088
 - MISS UTILITY.....1-800-257-7777
 - COLONIAL PIPELINE CO.....795-1390
 - HOWARD CO. DEPT. OF PUBLIC WORKS BUREAU OF UTILITIES.....313-4900
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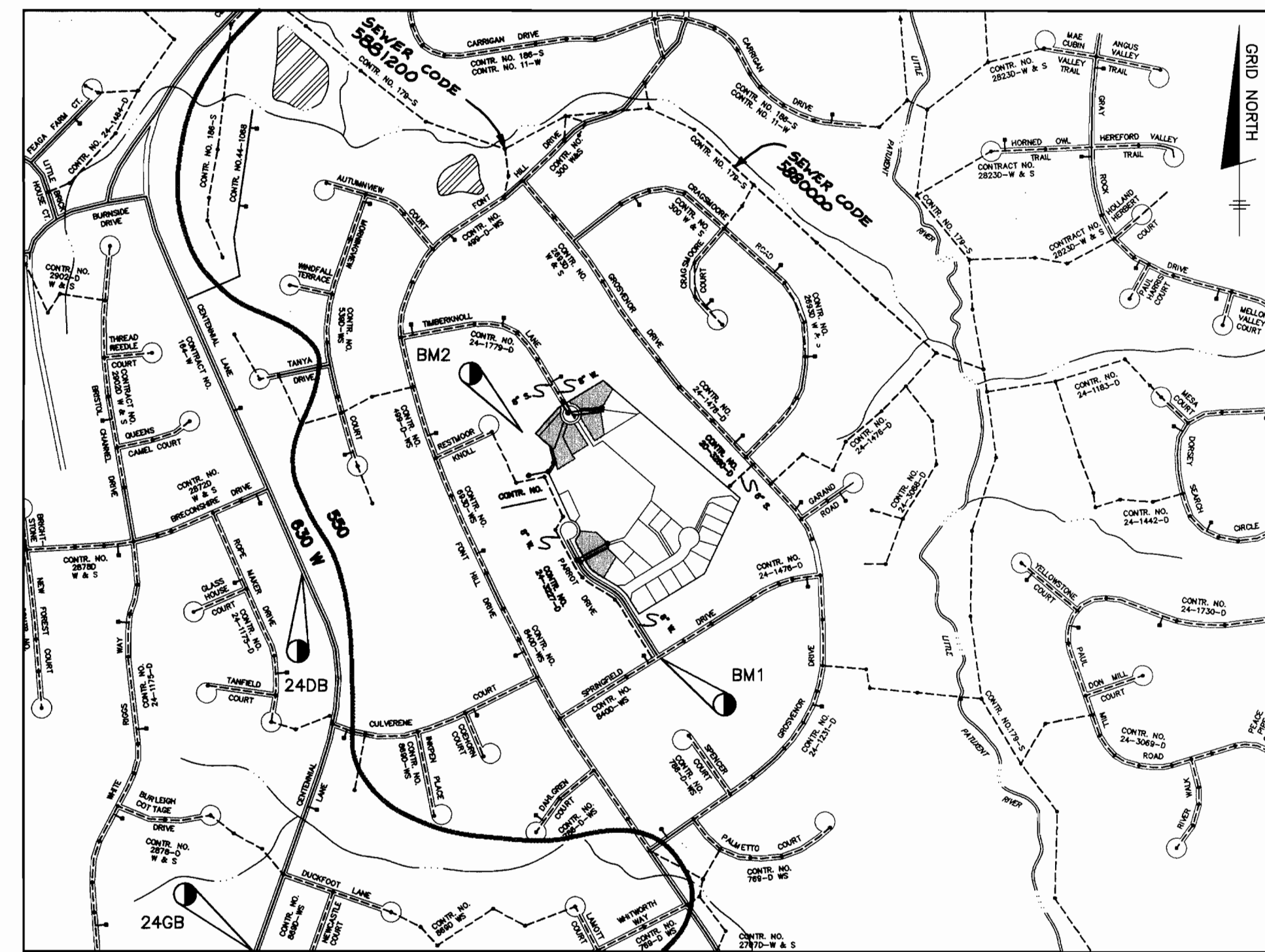
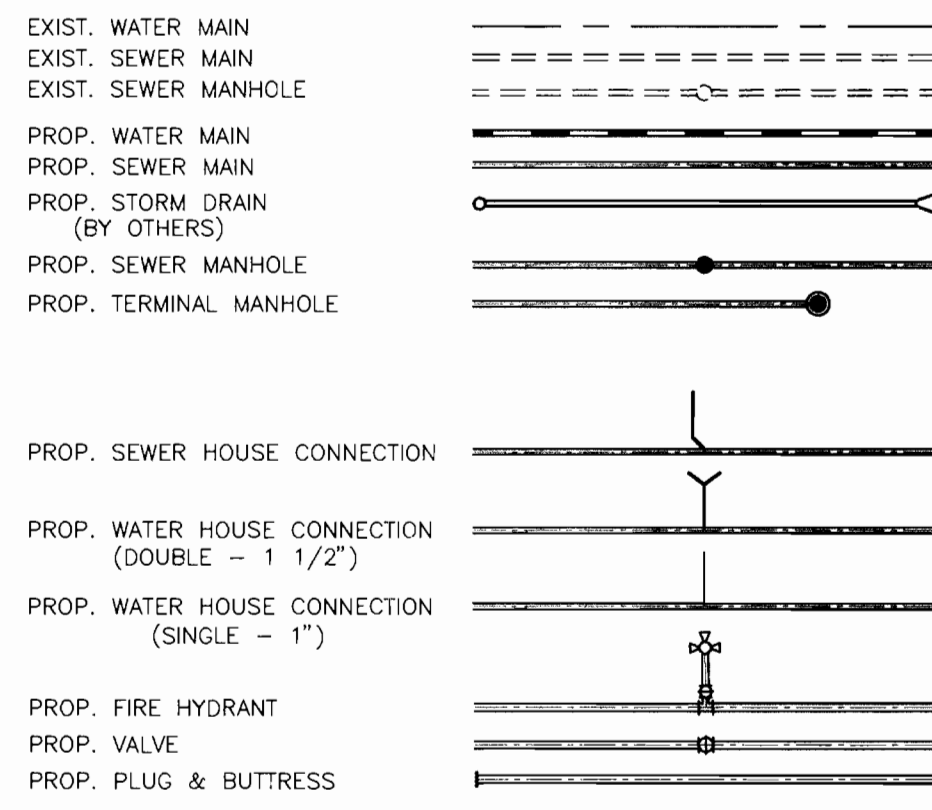
PART 2 - WATER

- 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 TREES SHALL BE STRAPPED TO TREES.
- ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
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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.
- 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 65.52, WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

LEGEND



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING: SINGLE FAMILY DETACHED	
WATER CODE: F12		NUMBER OF LOTS: 7	BUILDABLE (1 EX., 3 FUTURE)
SEWER CODE: 5880000 + 5881200		NUMBER OF SHC'S: 11	
TEST GRADIENT: 700		NUMBER OF WHC'S: 11	
		DRAINAGE AREA: LITTLE PATUXENT RIVER	
		TREATMENT PLANT: PATAPSCO VIA MD RTE. 108 PUMPING STATION	

VICINITY MAP
SCALE: 1" = 600'

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

Chaf. Simmons / 05. 8/31/98
NATURAL RESOURCES CONSERVATION SERVICE DATE

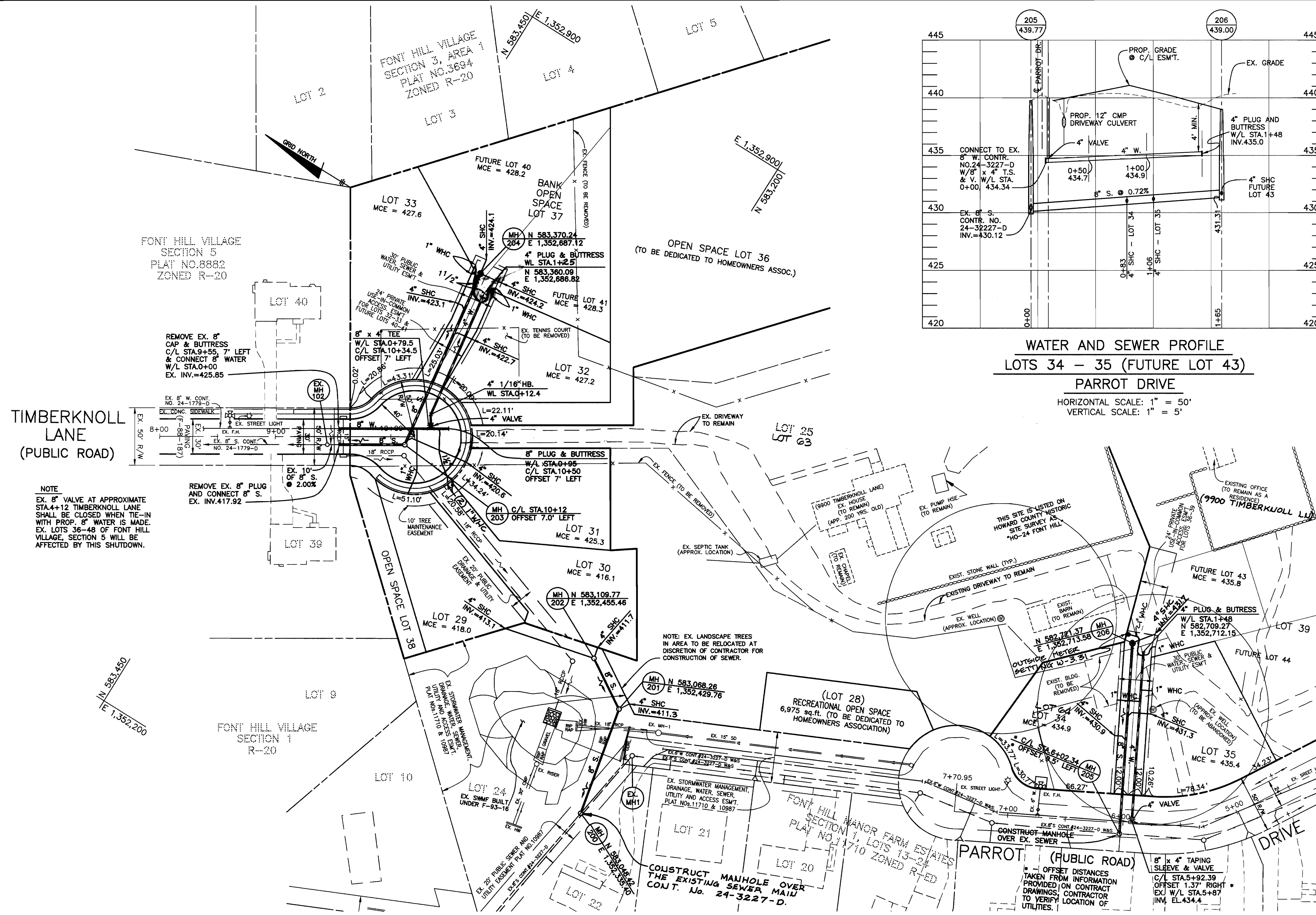
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

Glenn Selig / 8/31/98
HOWARD SOIL CONSERVATION DISTRICT DATE

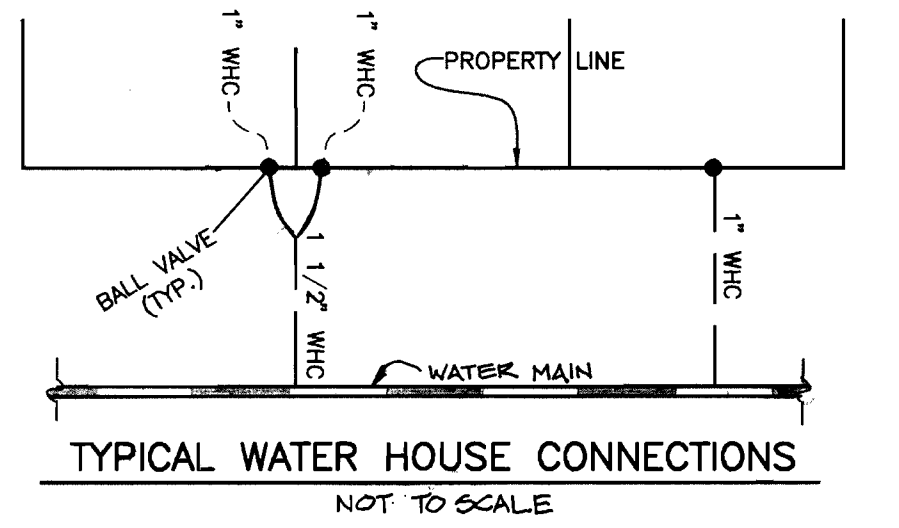
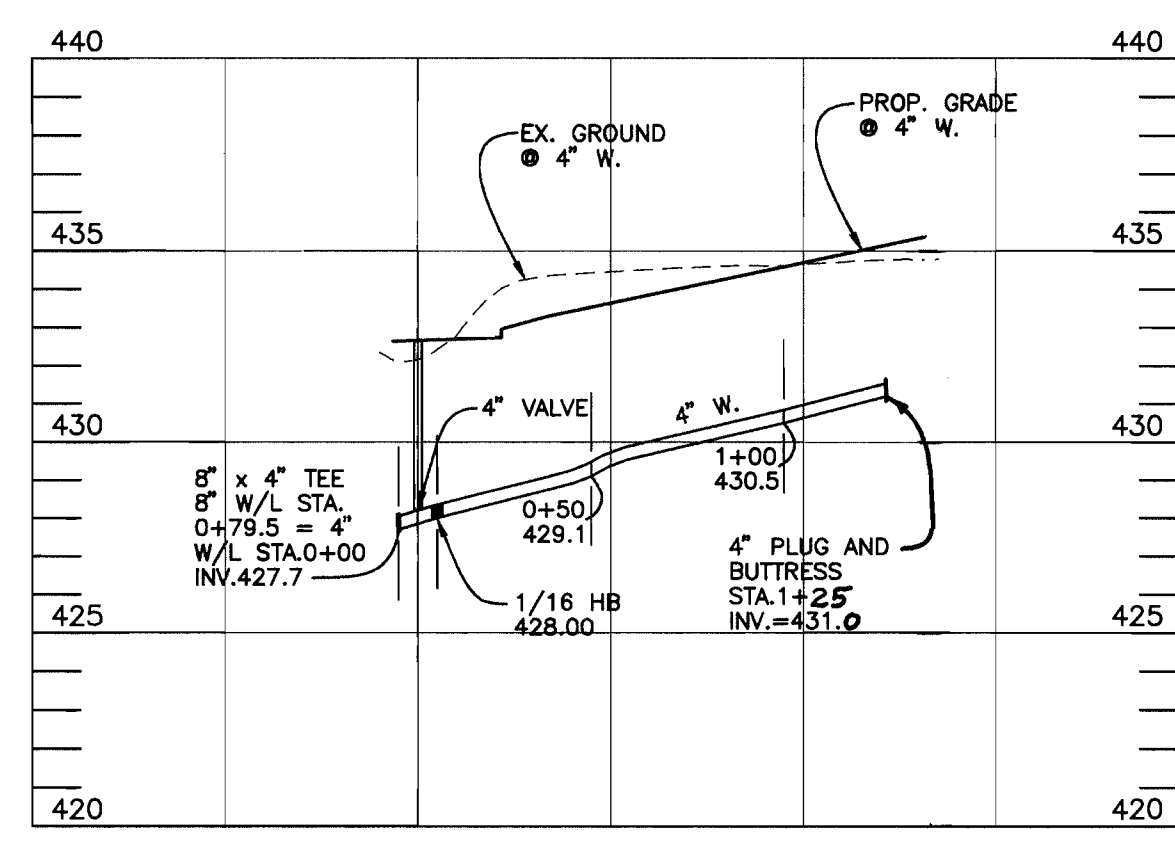
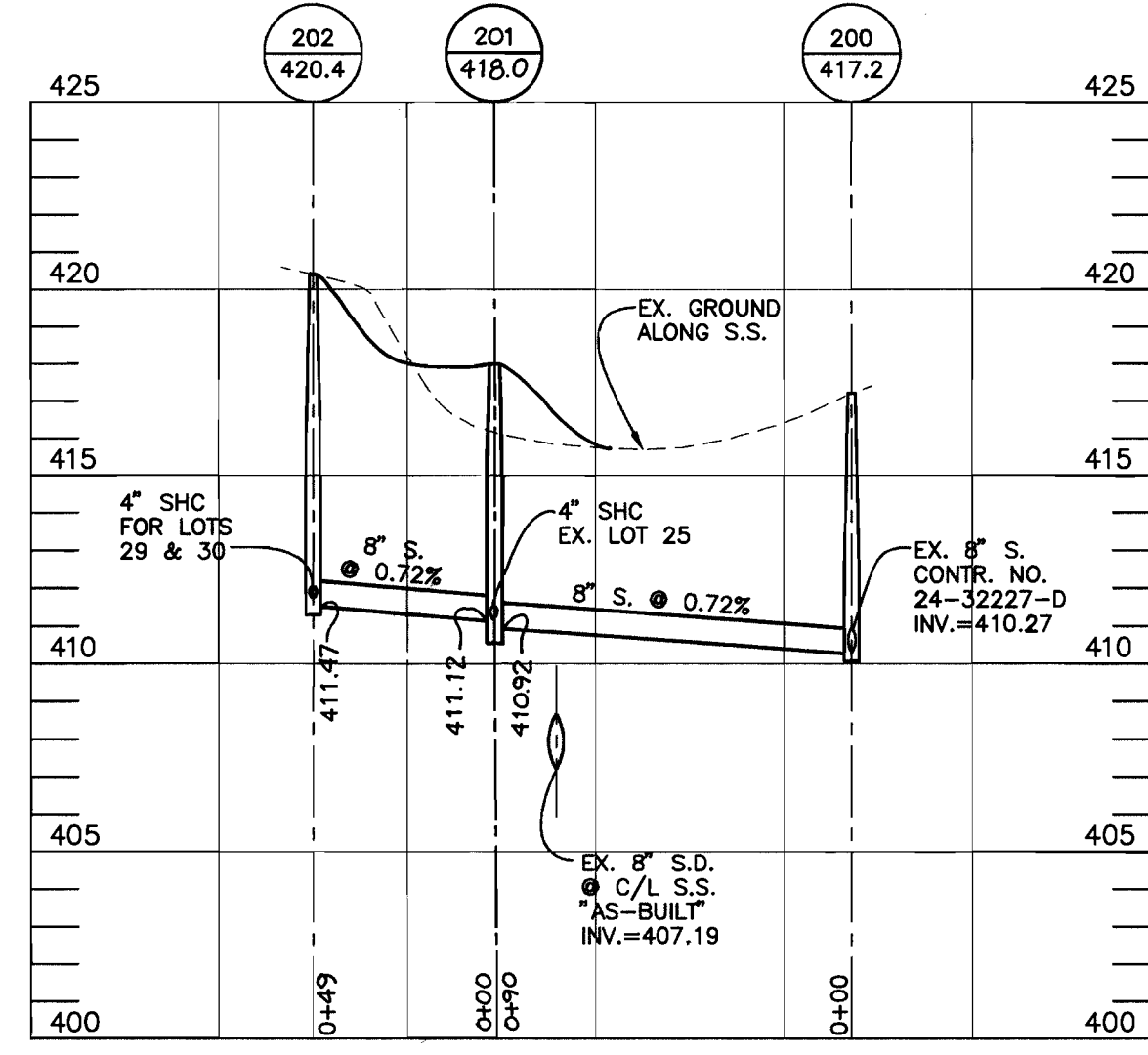
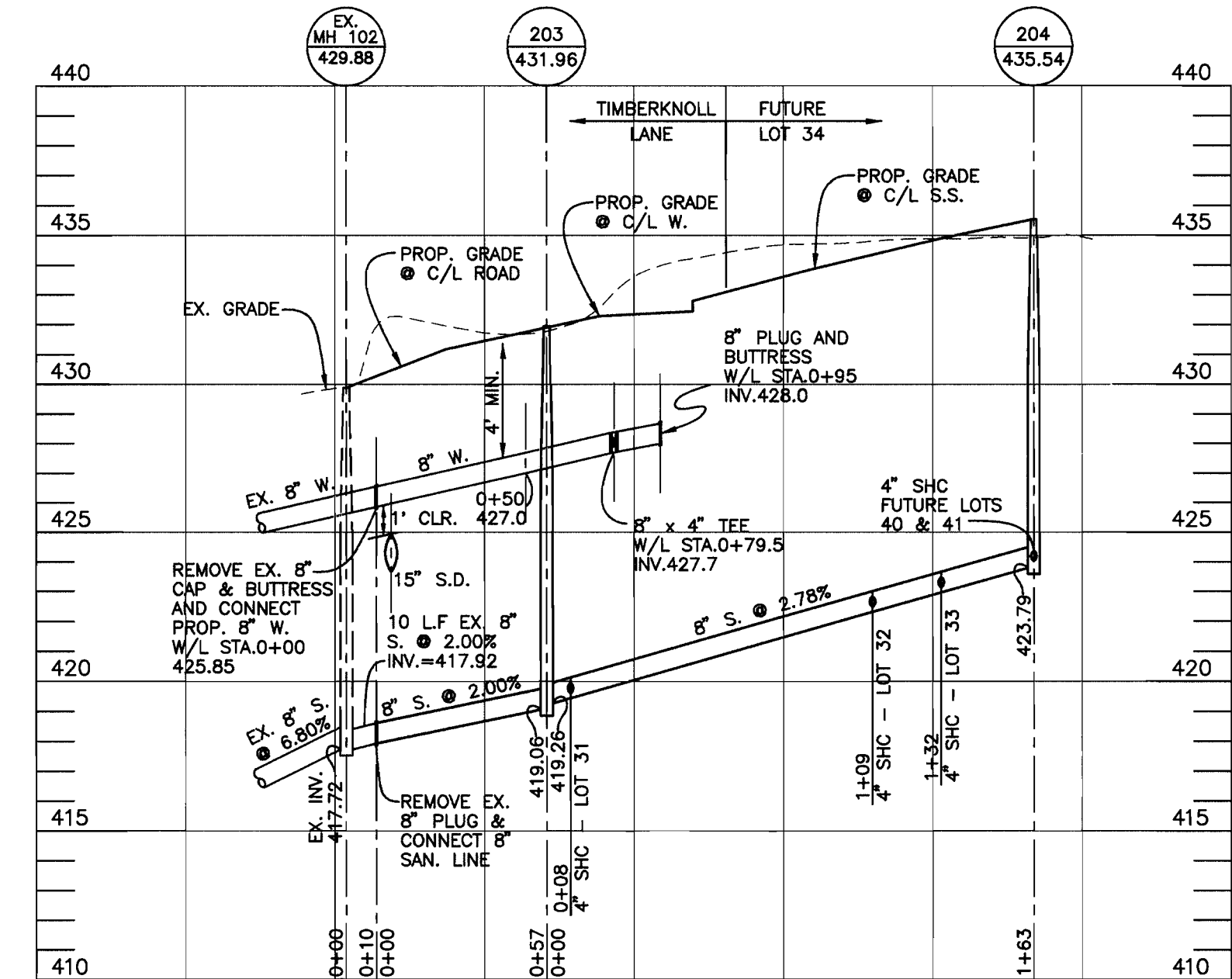
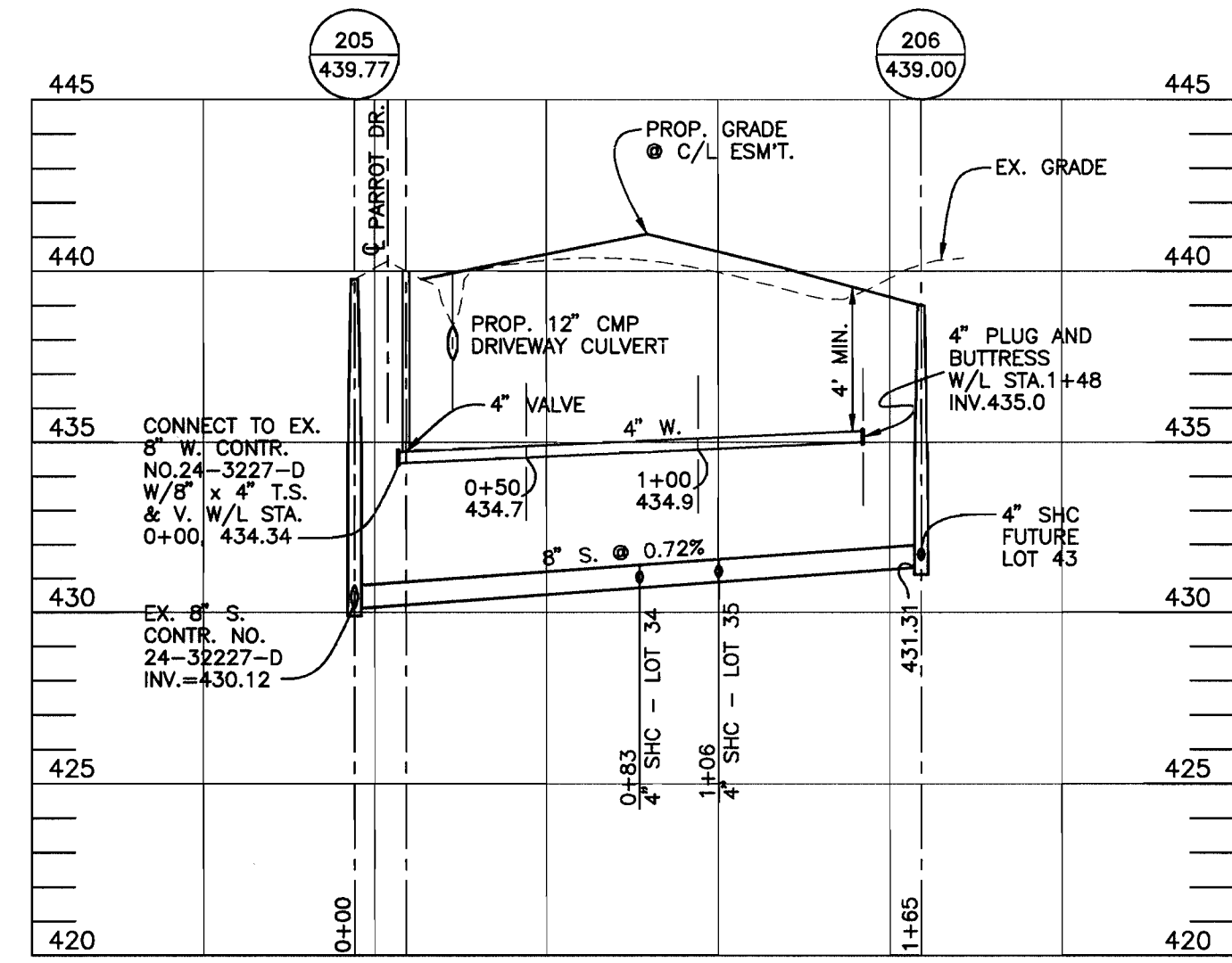
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-98-117

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert Brainer</i> August 27, 1998 CHIEF, BUREAU OF UTILITIES DATE	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>Donald Moore</i> 9/1/98 CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE	TSA GROUP, INC. planning • engineering • surveying 8480 Baltimore National Pike Suite 418 Ellicott City, Maryland 21043		DES: GWF DRN: MCR CHK: DAM DATE: 3/98 BY NO. 1 AS-BUILT CONDITIONS ADDED TO PLAN REVISIONS DATE: 11/1/99	TITLE PAGE 600 SCALE MAPS: W24 & S24 BLOCKS: 8 & 14	FONT HILL MANOR FARM ESTATES SECTION 2 PHASE 1 - LOTS 28 THRU 39 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-3689-D	SCALE: AS SHOWN SHEET NO. 1 OF 2
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Plotted: MARCH 5, 1998
Acad Dwg: 1070\6090151

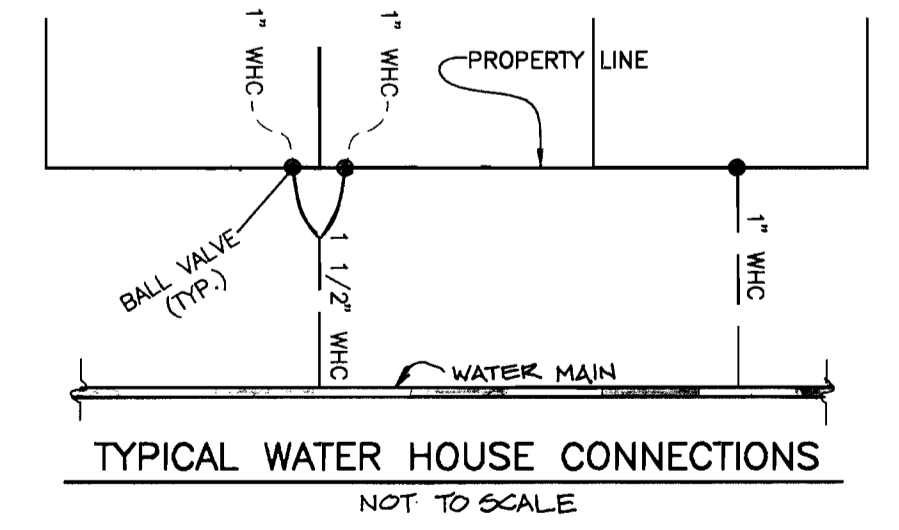
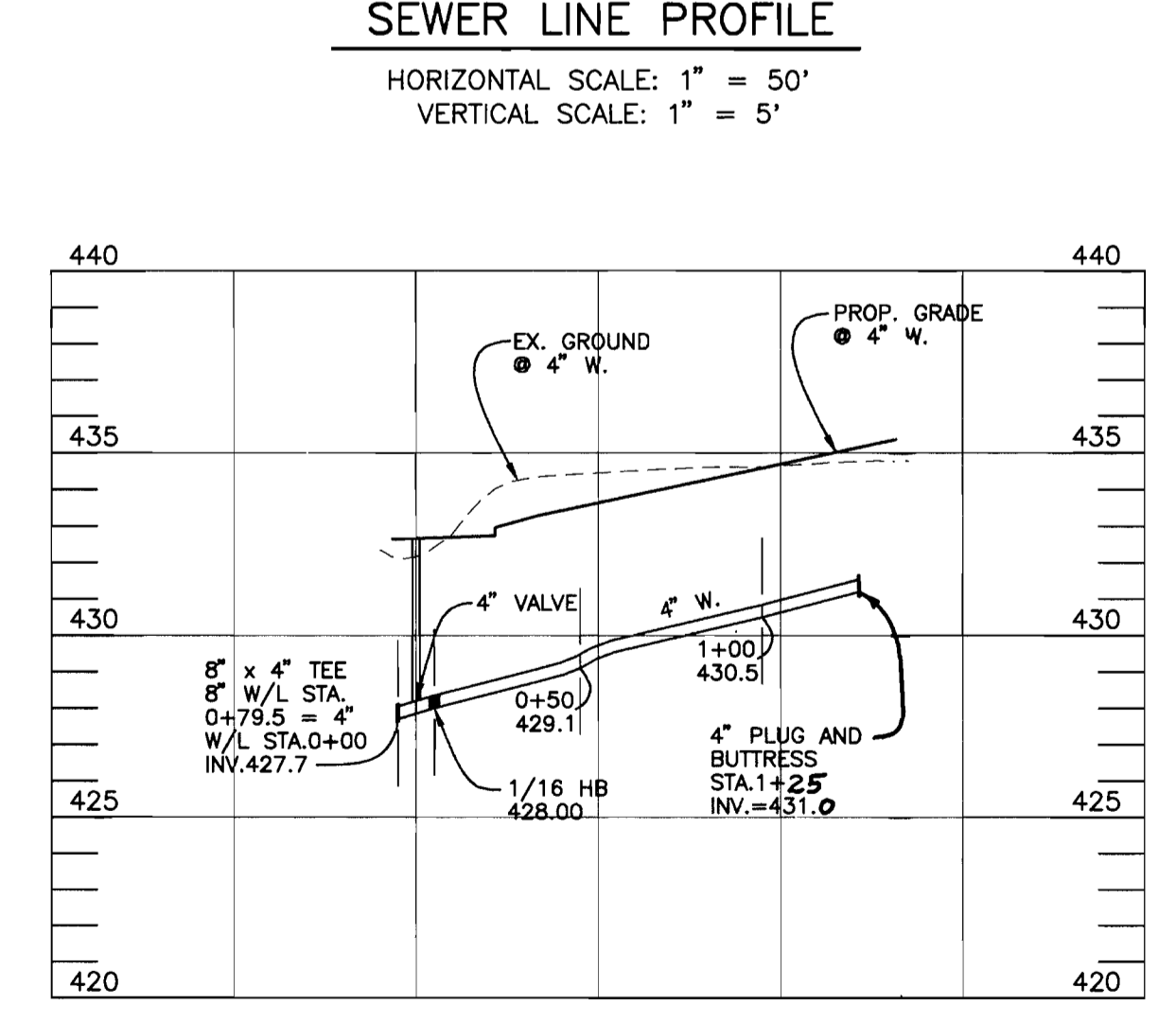
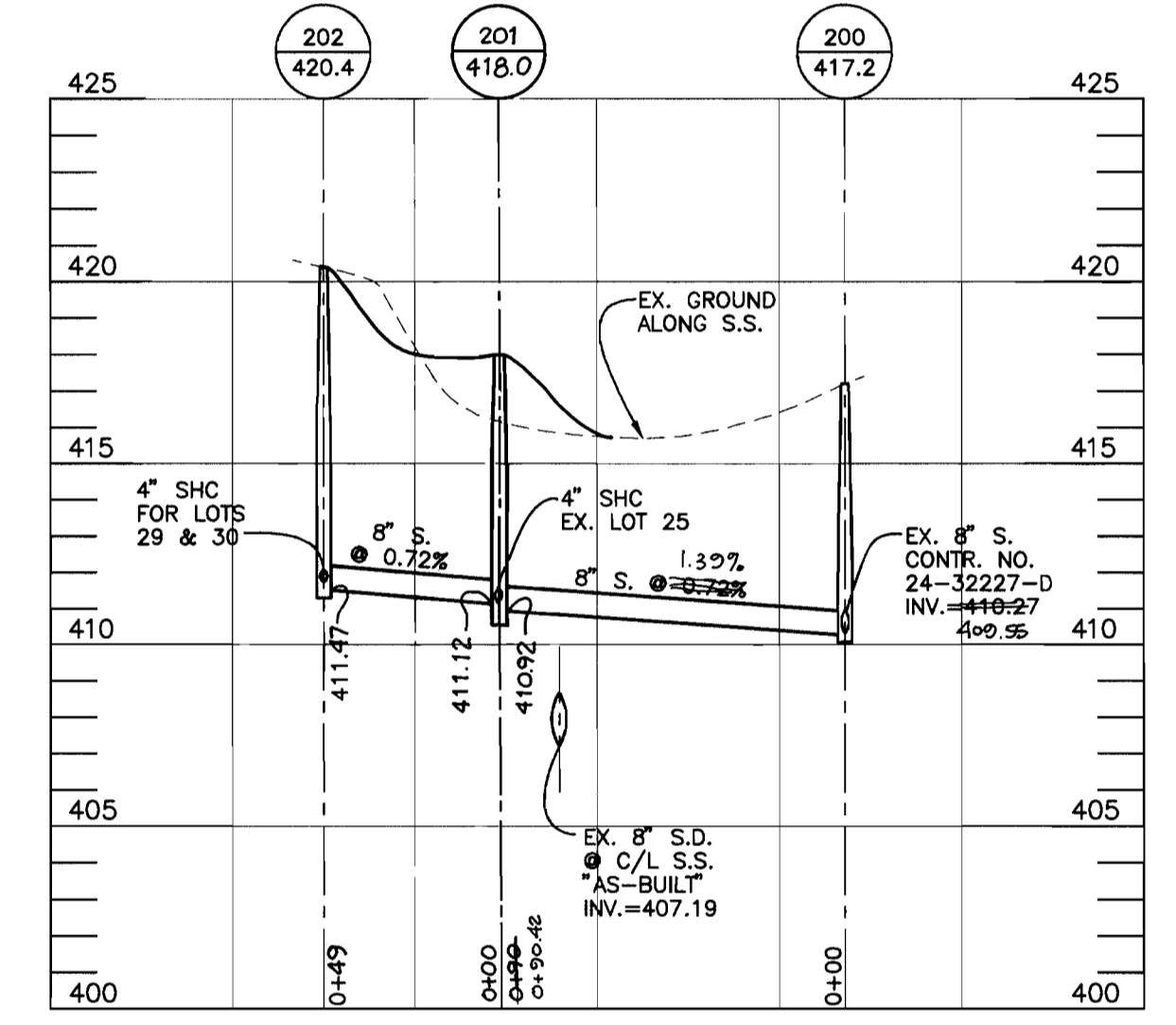
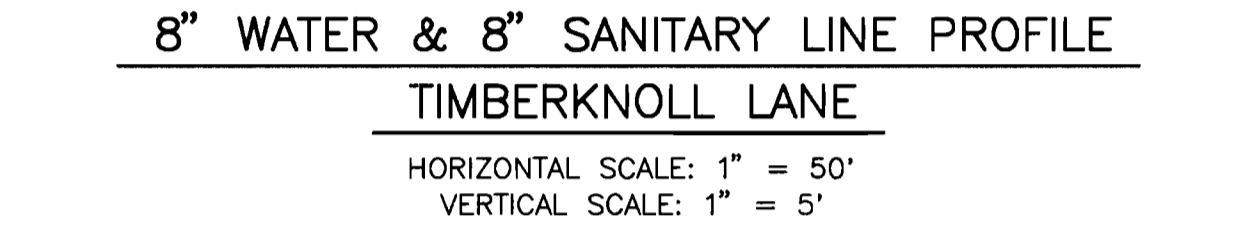
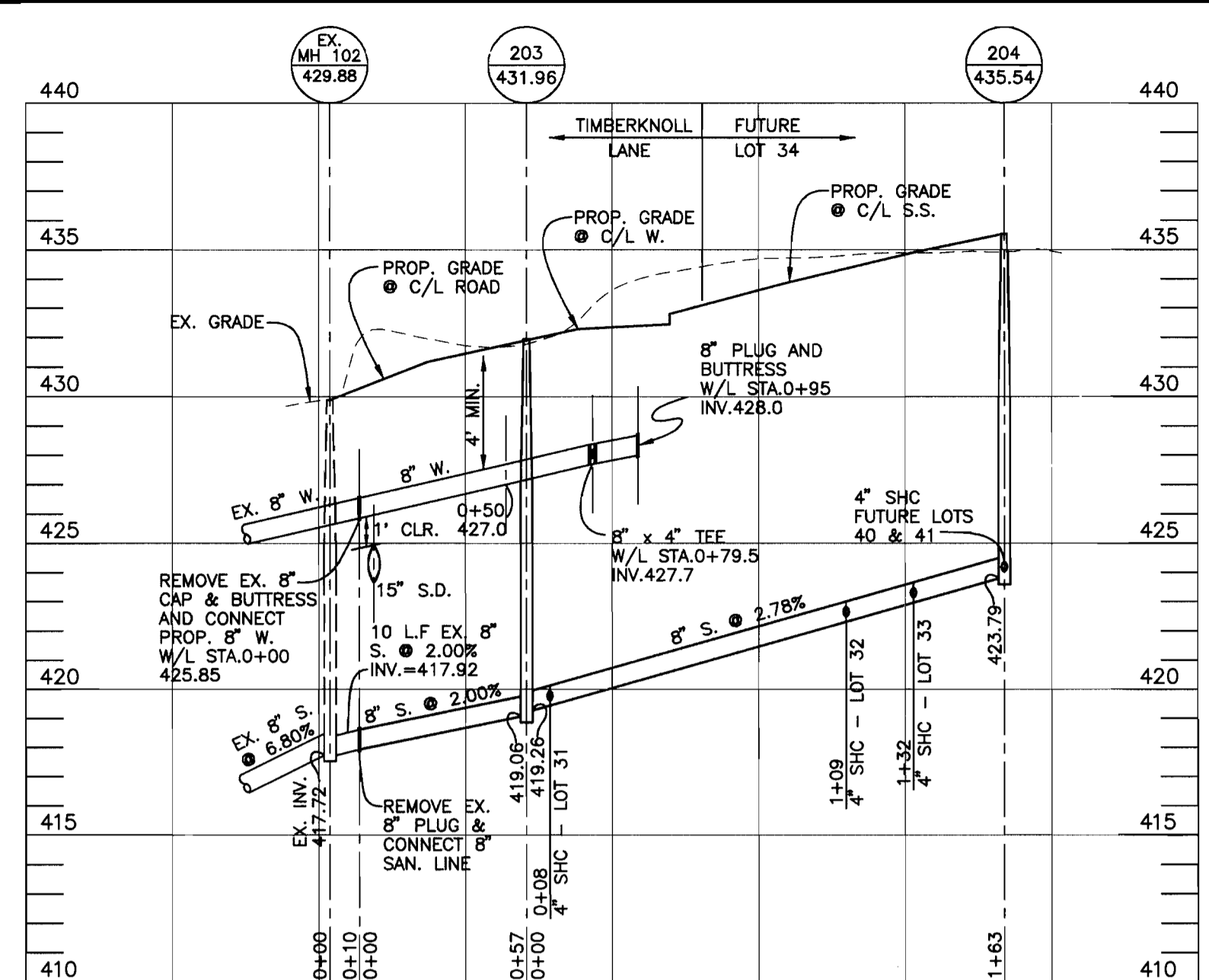
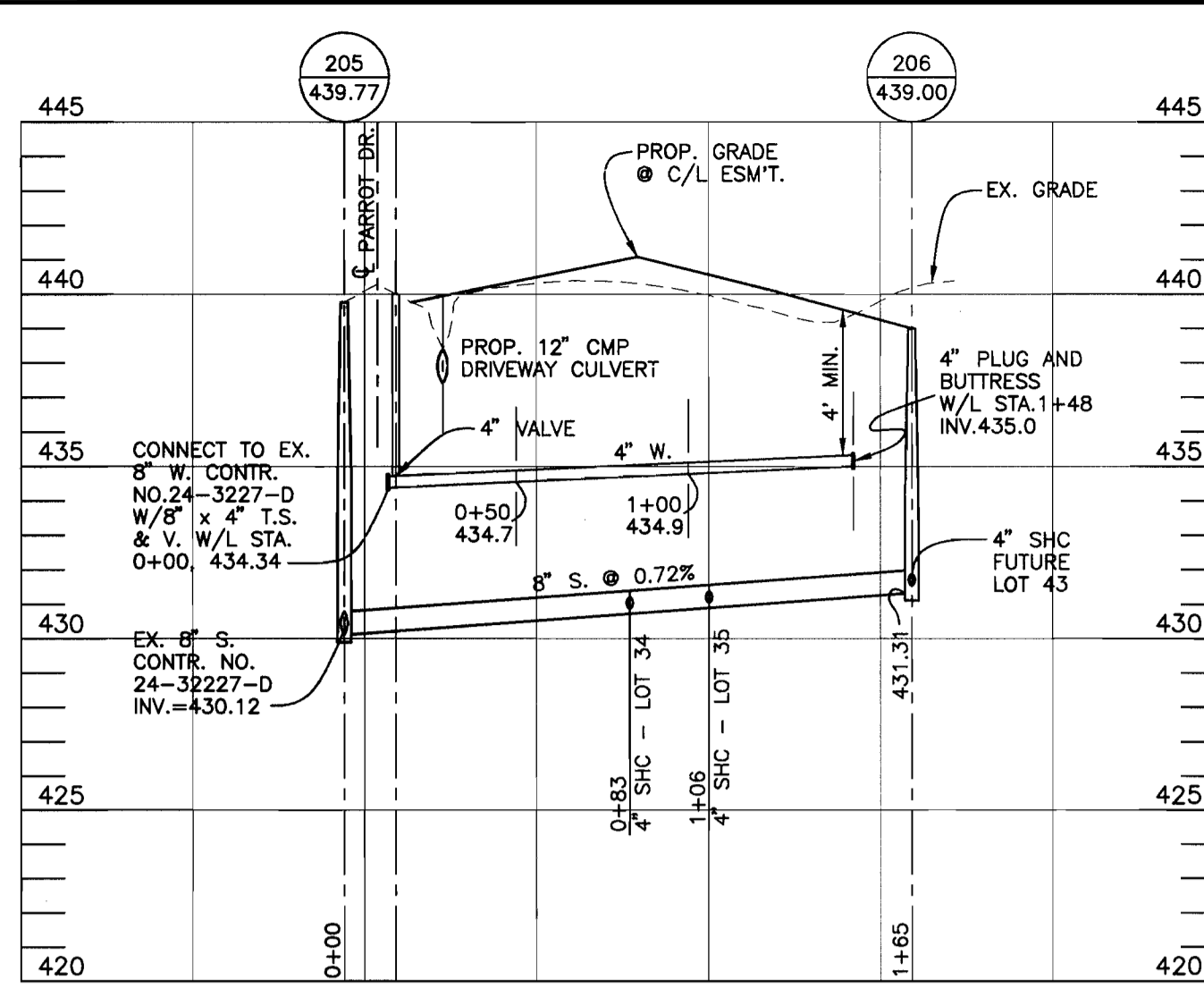
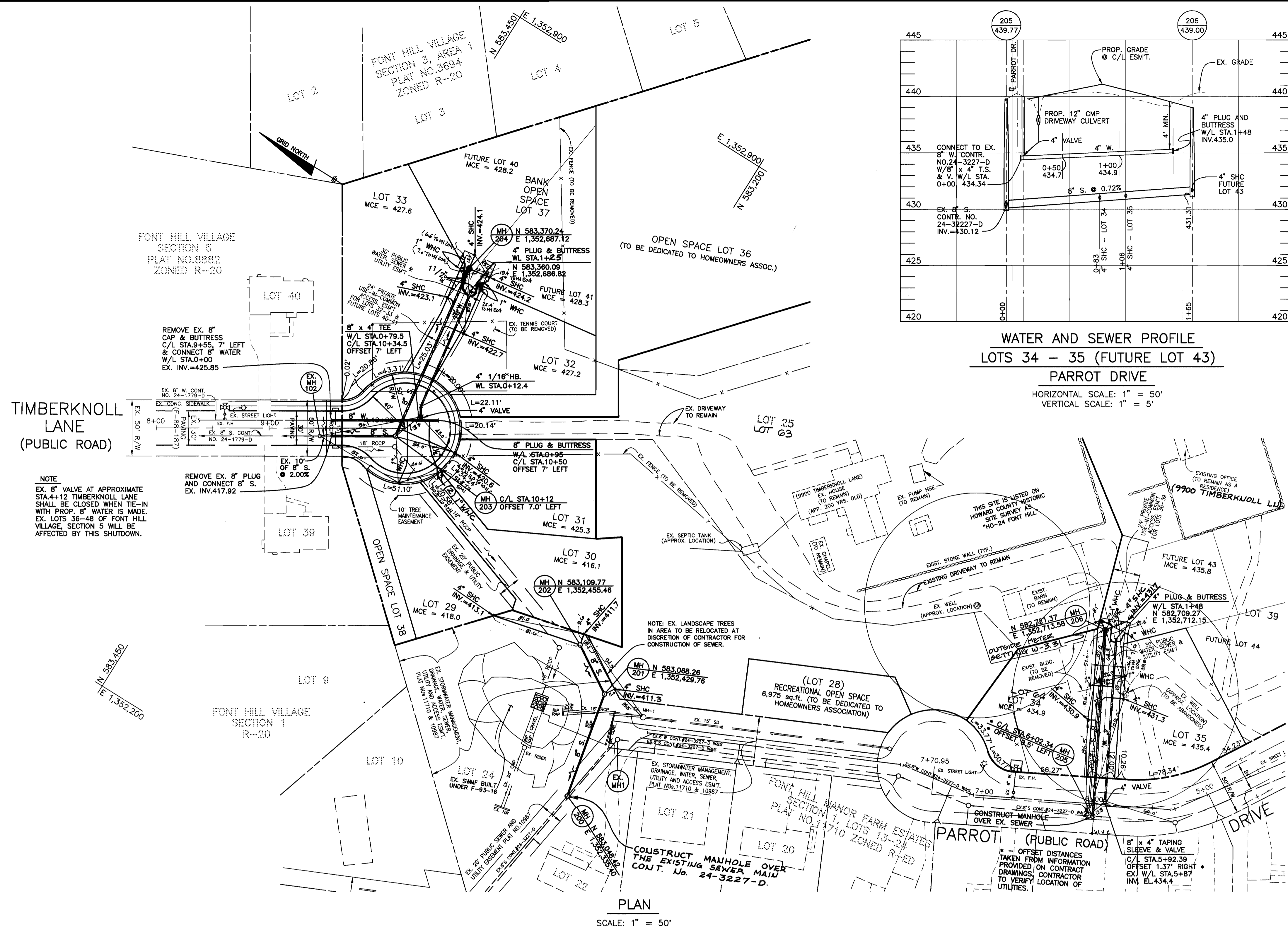


PLAN
SCALE: 1" = 50'



DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND <i>Robert B. ...</i> CHIEF, BUREAU OF UTILITIES	DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND <i>...</i> CHIEF, DEVELOPMENT ENGINEERING DIVISION	TSA GROUP, INC. planning • engineering • surveying 8480 Baltimore National Pike Suite 418 Ellicott City, Maryland 21043 <i>Donald M. ...</i> PROFESSIONAL ENGINEER	DES: GWF					WATER & SEWER PLAN AND PROFILES	FONT HILL MANOR FARM ESTATES SECTION 2 PHASE 1 - LOTS 28 THRU 39 ELECTION DISTRICT NO. 2 CONTRACT NO. 24-3689-D	SCALE: AS SHOWN
			DRN: MCR							
CHK: DAM			DATE: 3/98	MCR	1	REV. METER LOCATION FOR 9900 TIMBERKNOLL LN.	7-29-99			
				BY	NO.	REVISIONS	DATE	600 SCALE MAPS: W24 & S24	BLOCKS: 8 & 14	

Plotted: MARCH 11, 1998
Acad Dwg: 1070/60460151



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Robert B. ...
August 27, 1998
DATE

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

...
9/1/98
DATE

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



DES:	GWF				
DRN:	MCR				
CHK:	DAM	K.D.I.	2	AS BUILT CONDITIONS ADDED TO PLAN	11/11/98
DATE:	3/98	MCR	1	REV. METER LOCATION FOR 9900 TIMBERKNOLL LN.	7-29-99
BY:	NO.			REVISIONS	DATE

**WATER & SEWER
PLAN AND PROFILES**

600 SCALE MAPS: W24 & S24
BLOCKS: 8 & 14

**FONT HILL MANOR FARM ESTATES
SECTION 2**
PHASE 1- LOTS 28 THRU 39
ELECTION DISTRICT NO. 2
CONTRACT NO. 24-3689-D

SCALE:
AS SHOWN

SHEET NO.
2 OF 2