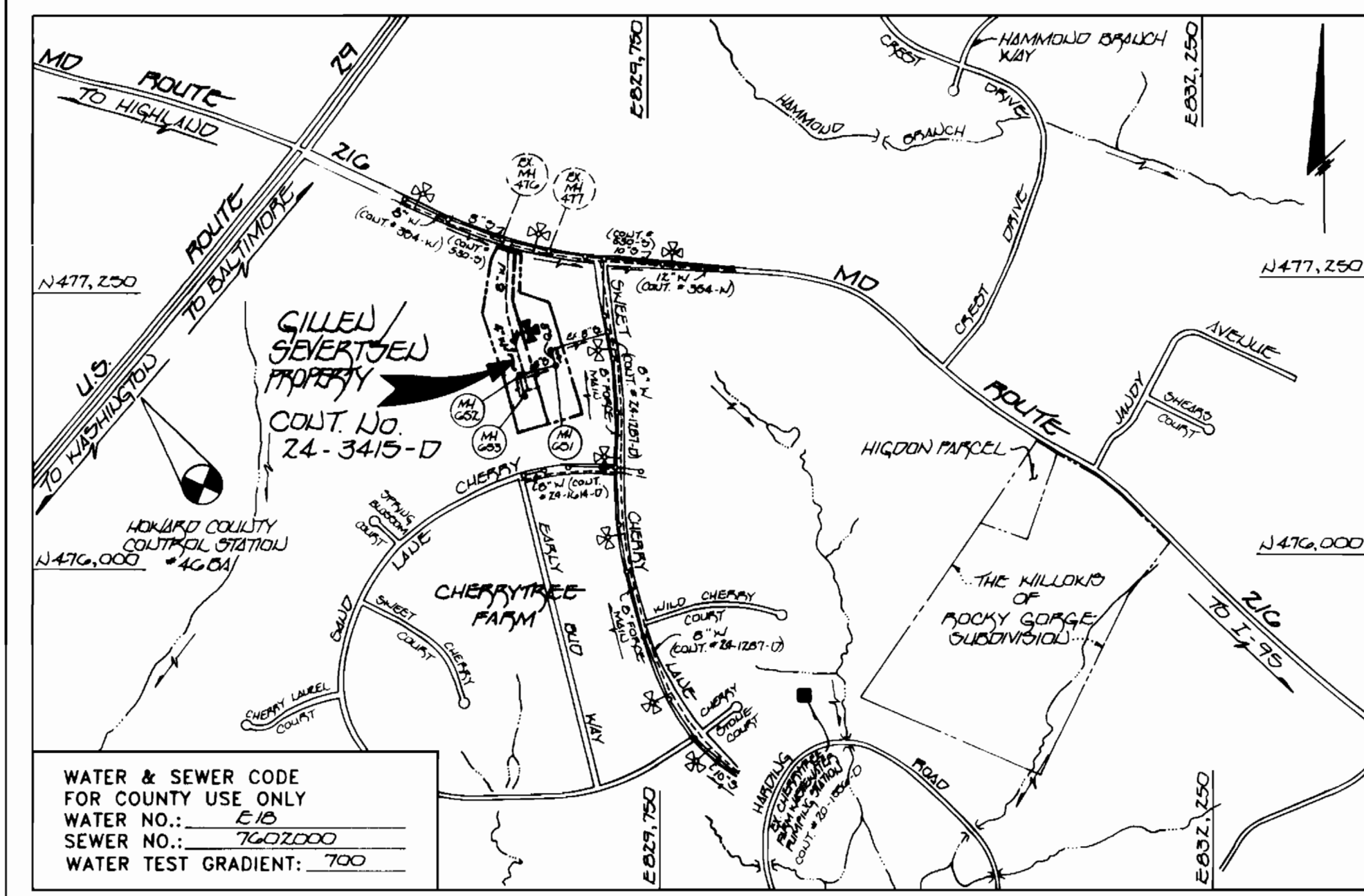
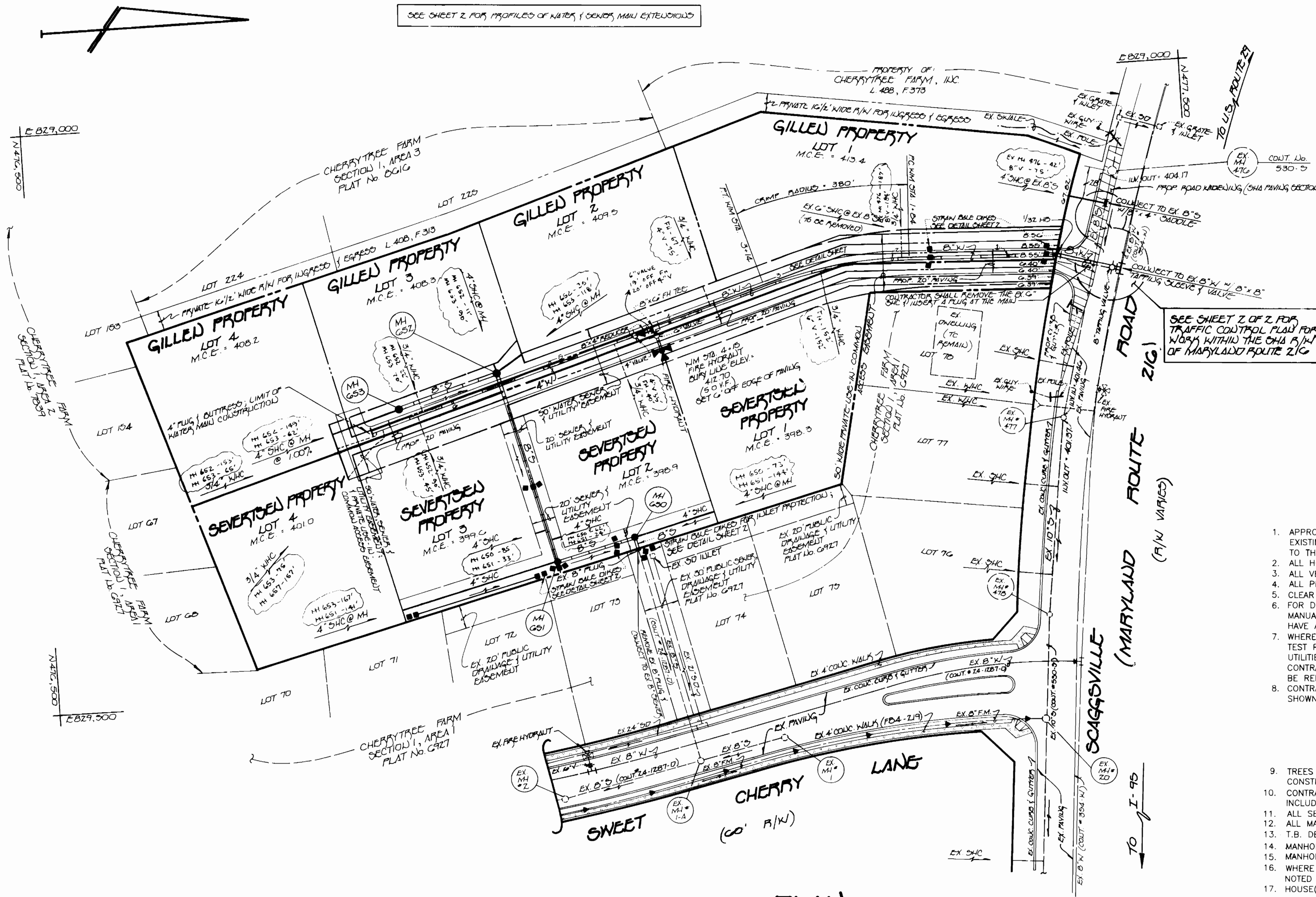


AS-BUILT 11-9-95

3415 ws/1 Gillen Prop. (lots 1-4) Severtsen Prop. (lots 1-4)

SEE SHEET 2 FOR PROFILES OF WATER & SEWER MAINS EXTENSIONS



WATER & SEWER CODE FOR COUNTY USE ONLY  
WATER NO.: E10  
SEWER NO.: 7607000  
WATER TEST GRADIENT: .700

TYPE OF BUILDING: SINGLE FAMILY RESIDENTIAL  
NUMBER OF LOTS: 8 (8 BUILDINGS)  
NO. OF WATER HOUSE CONNECTIONS: 8  
NO. OF SEWER HOUSE CONNECTIONS: 8  
DRAINAGE AREA: 1.25 ACRES  
TREATMENT PLANT: LITTLE PATRICK TREATMENT PLANT  
WATER QUALITY MANAGEMENT CENTER

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. DATUM.
- 4. ALL PIPE ELEVATIONS ARE INVERT ELEVATIONS.
- 5. CLEAR ALL UTILITIES BY A MINIMUM OF 6". CLEAR ALL POLES BY 2'-0" MINIMUM OR TUNNEL AS REQUIRED.
- 6. FOR DETAILS NOT SHOWN ON THE DRAWINGS, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION (1991 AMENDMENTS) THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB SITE.
- 7. WHERE TEST PITS HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [square with X] 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 8. CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:  
STATE HIGHWAY ADMINISTRATION - 531-5533  
BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - 850-4620  
BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL - 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- 12. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- 13. T.B. DENOTES TEST BORING.
- 14. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- 15. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G 5.52.
- 16. WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 17. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.
- 18. ALL WATER HOUSE CONNECTIONS SHALL BE FOR INSIDE METER SETTING, UNLESS OTHERWISE NOTED ON THE PLANS OR IN THE SPECIFICATIONS.
- 19. MANHOLES LOCATED WITHIN THE PROPOSED ROADWAY SHALL HAVE STANDARD HEAVY TRAFFIC MANHOLE FRAMES AND COVERS, STANDARD DETAIL G5.51.
- 20. WATER MAINS AND WATER HOUSE CONNECTION LINES MUST BE PLACED AS TO HAVE ONE (1) FOOT SEPARATION FROM THE SEWER MAIN OR SEWER HOUSE CONNECTION AS THEY PASS ABOUT IT.
- 21. ALL WATER MAINS SHALL BE D.I.P., CLASS 52 UNLESS OTHERWISE NOTED.
- 22. TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3'-1/2' COVER UNLESS OTHERWISE NOTED.
- 23. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
- 24. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
- 25. FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATION SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE RESTRAINED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS (W1.11 AND W2.13). SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- 26. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
- 27. ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATIONS C-15.3; DUCTILE IRON COMPACT FITTINGS, 3-INCH THROUGH 12-INCH FOR WATER AND OTHER LIQUIDS.
- 28. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, (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.

PLAN SCALE: 1" = 50'

OWNER & DEVELOPER

GILLEN PROPERTY PARTNERSHIP  
9% MR. MICHAEL COLL  
2300 RIDGE TRACE COURT  
ELLICOTT CITY, MARYLAND 21042  
SEVERTSEN PROPERTY PARTNERSHIP  
9% MR. CLAYTON HEMP  
PO BOX 1371  
ELLICOTT CITY, MARYLAND 21044

DEVELOPER'S CERTIFICATE

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENTATION RESULTING FROM CONSTRUCTION PROJECTS. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTIONS BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT HAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

REQUIRED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.  
5/15/94

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

APPROVED: [Signature] 5/15/95  
HOWARD SOIL CONSERVATION DISTRICT DATE

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND ALSO AS SHOWN ON THE GRADING AND SEDIMENT CONTROL PLAN F95-07 & F95-02.

APRIL 26, 1995 DATE

PLAN REFERENCE NUMBERS:  
F 95-07  
F 95-02

QUANTITIES				
ITEM	ESTIMATED	QUANTITIES	AD-BUILT	SUPPLIER
8" SEWER	342 LF	331 LF	PVC	J-M MFG
4" SEWER MANHOLES	4 EACH	353 LF	PVC	J-M MFG
8" WATER	418 LF	4 EA	PRECAST CONC	ATLANTIC CONC.
6" WATER	23 LF	4 EA	CL 52	GRIFFIN PIPE
4" WATER	257 LF	247 LF	CL 52	GRIFFIN PIPE
3/4" WVC	250 LF	240 LF	TYPE "W"	CAMBRIDGE-LBE
FIRE HYDRANT	1 EACH	1 EA		MUELLEK CO.
8" B.T.O. V	1 EACH	1 EA		MUELLEK CO.

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

APRIL 26, 1995 DATE  
[Signature] DATE

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
5/16/95 DATE  
5/16/95 DATE

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
ELLICOTT CITY, MARYLAND 21042  
(410) 481-2855

#9757  
TERRELL A. FISHER

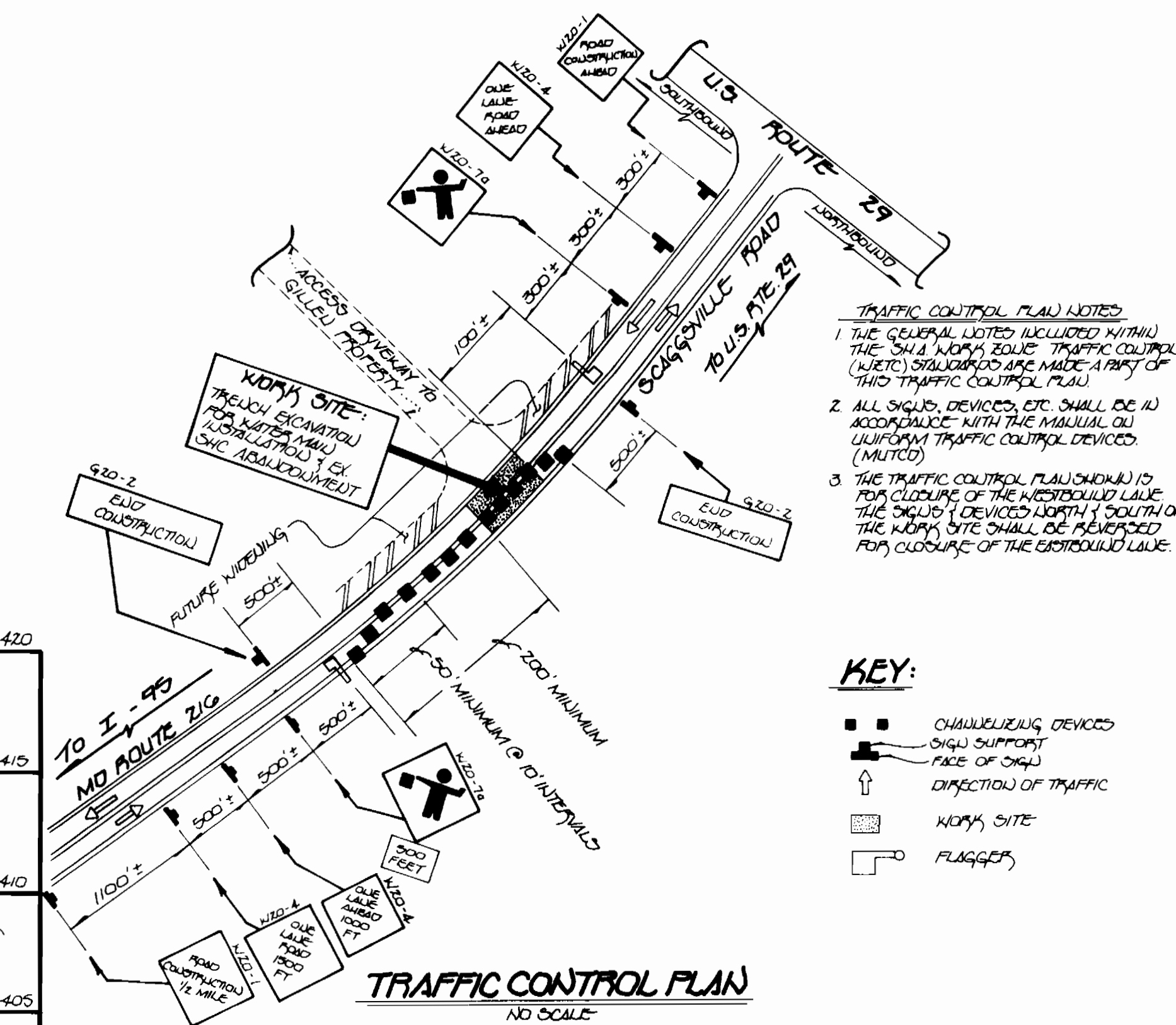
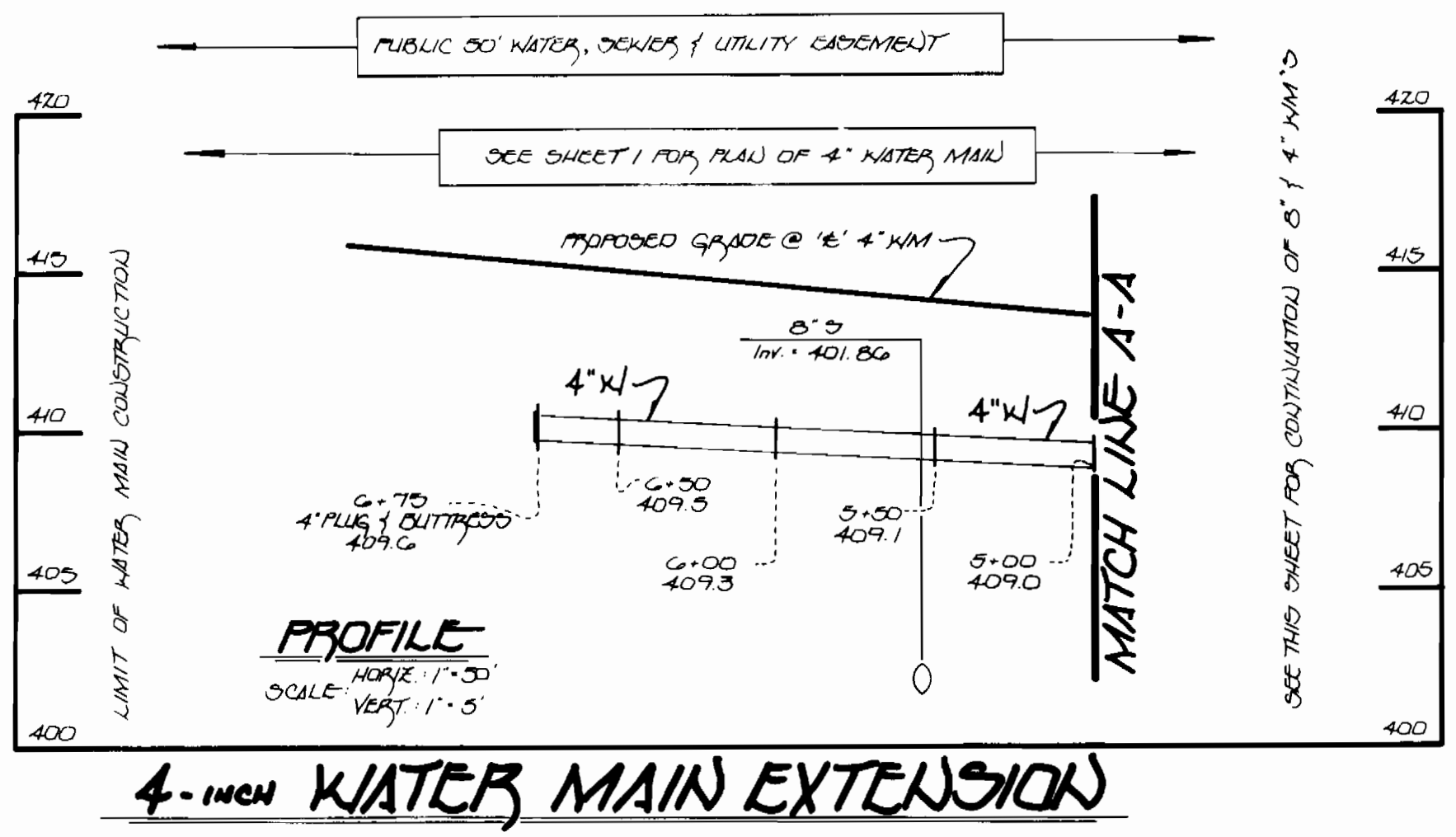
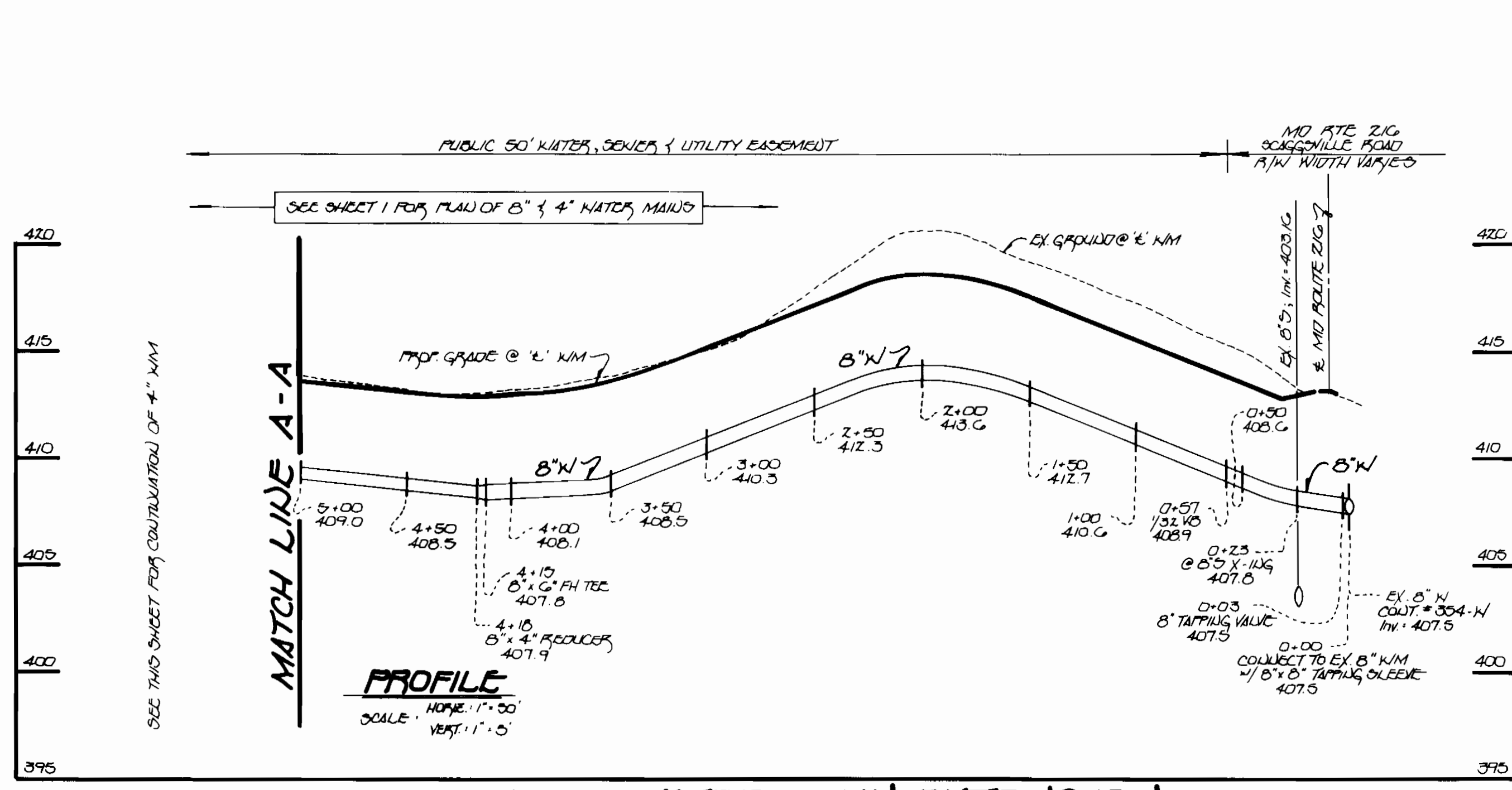
DES:	M.J.M.		
DRWN:	J.M.M./M.J.M.		
CHK:	P.W.K.		
DATE:			
BY	NO.	REVISION	DATE

PLAN  
WATER & SEWER MAINS  
600' SCALE MAP NO. 46 BLOCK NO. 11

GILLEN PROPERTY; LOTS 1-4  
SEVERTSEN PROPERTY; LOTS 1-4  
CONTRACT NO. 24-3415-D  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 1 OF 2

Gillen Prop. (lots 1-4)  
 Severtsen Prop. (lots 1-4)  
 3415 ws/2

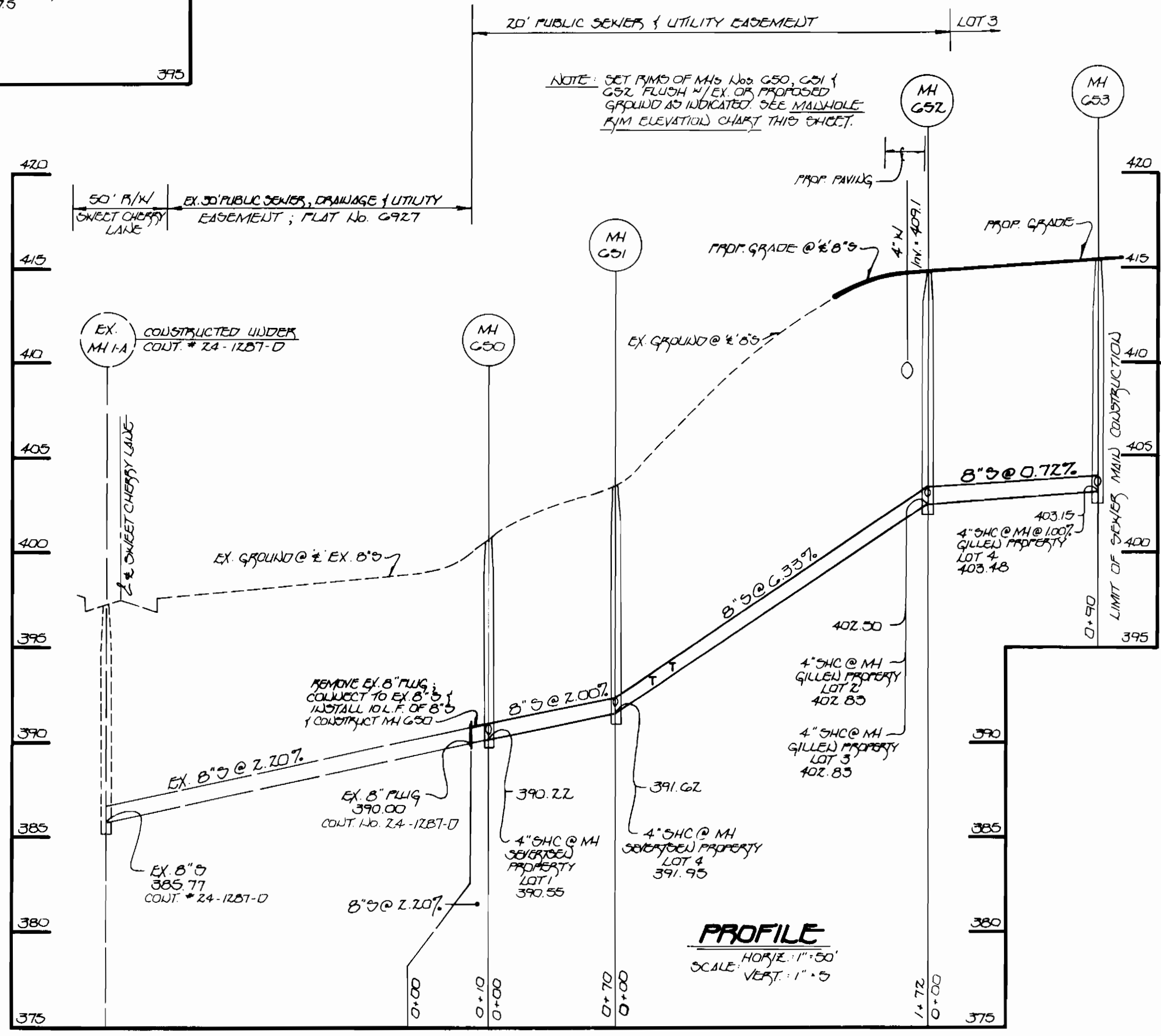
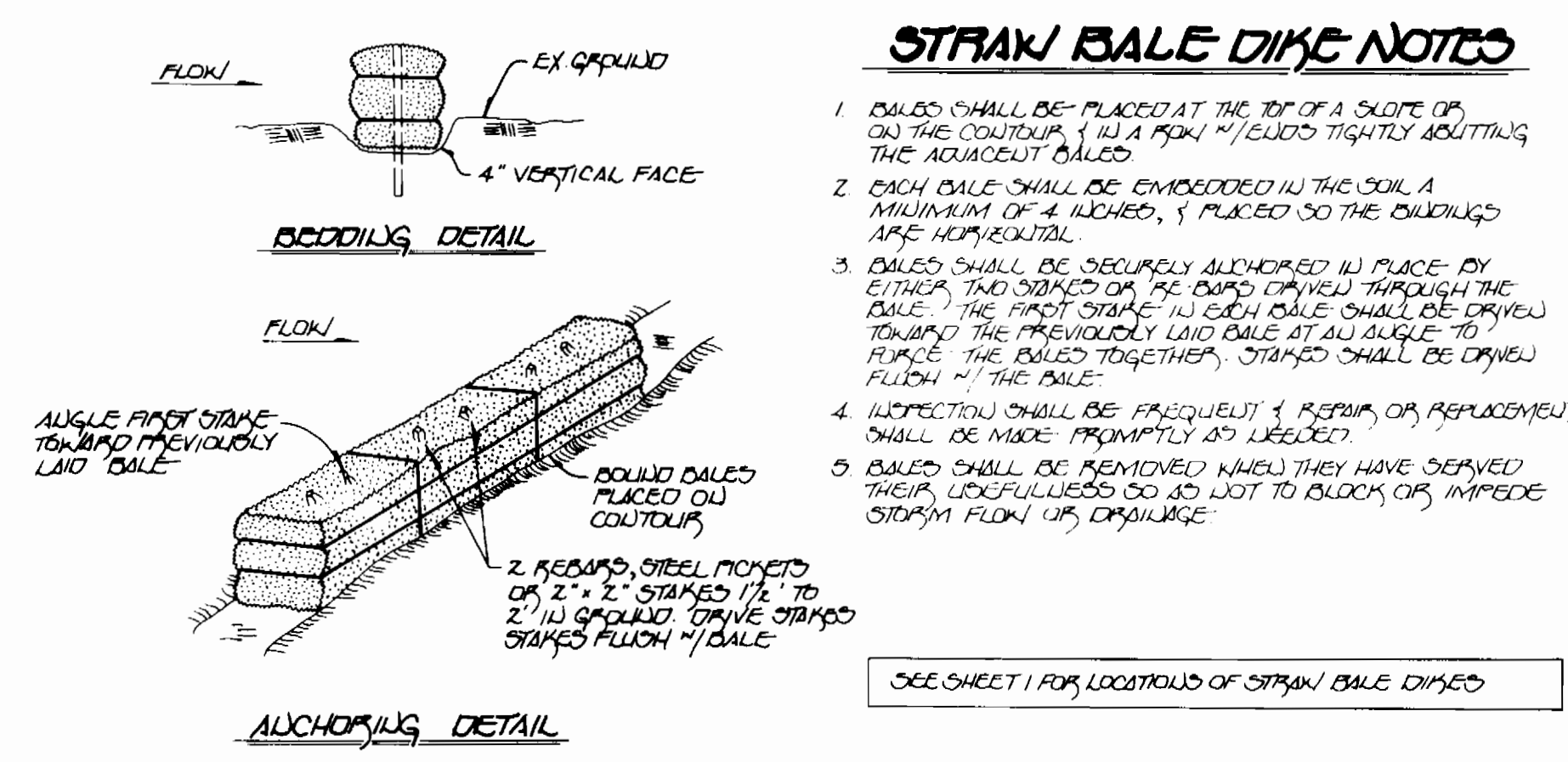


**TRAFFIC CONTROL PLAN NOTES**

- THE GENERAL NOTES INCLUDED WITHIN THE SHC WORK BOOK TRAFFIC CONTROL (NET) STANDARDS ARE MADE A PART OF THIS TRAFFIC CONTROL PLAN.
- ALL SIGNS, DEVICES, ETC. SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE TRAFFIC CONTROL PLAN SHOULD BE FOR CLOSURE OF THE WORKSITELINE. THE SIGNS & DEVICES LOCATED OUTSIDE OF THE WORKSITELINE SHALL BE PROVIDED FOR CLOSURE OF THE ESTABLISHED LANE.

**KEY:**

- Channelizing device
- Sign support
- Face of sign
- Direction of traffic
- Work site
- Flagger



**SHC INVERTS @ "R" CHART**

STATION	LOT	ELEVATION
MH 400 TO MH 401		
@ MH 400	SEVERTSEN LOT 1	391.99
MH 401 TO MH 402		
@ MH 401	SEVERTSEN LOT 2	394.75
@ 20 FT	SEVERTSEN LOT 2	393.26
@ 30 FT	SEVERTSEN LOT 3	393.89
MH 402 TO MH 403		
@ MH 402	GILLEN LOT 3	402.99
@ MH 402	GILLEN LOT 2	403.37
EX. MH 417 TO EX. MH 418		
1+90	GILLEN LOT 1	404.66
MH 403 TO MH 404		
@ MH 403	GILLEN LOT 4 @ 100'	404.08

**MANHOLE RIM ELEV. CHART**

MANHOLE	RIM ELEVATION
Nb. 400	400.50
Nb. 401	403.50
Nb. 402	414.50
Nb. 403	415.40

SET RIM FLUSH WITH EXISTING GROUND  
SET RIM FLUSH WITH PROPOSED PAVING

**DEVELOPER'S CERTIFICATE:**

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE OBTAINING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY.

Signature: *Christopher...* DATE: APRIL 26, 1995

**ENGINEER'S CERTIFICATE:**

I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT HAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

Signature: *Paul W. Keenan* DATE: APRIL 26, 1995

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

Signature: *James P. Shaw* DATE: 5/8/95  
DIRECTOR OF PUBLIC WORKS

Signature: *Paul W. Keenan* DATE: 5/8/95  
CHIEF, BUREAU OF ENGINEERING

Signature: *Michael A. ...* DATE: 5/8/95  
CHIEF, BUREAU OF UTILITIES

Signature: *...* DATE: 5/8/95  
CHIEF, LAND DEVELOPMENT DIVISION

FISHER, COLLINS & CARTER, INC.  
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS  
SUITE 100, 9171 BALTIMORE NATIONAL PIKE  
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TERRELL A. FISHER

DES: M.J.M.  
DRWN: J.M.M./M.J.M.  
CHK: P.W.K.  
DATE: \_\_\_\_\_

BY NO. REVISION DATE

**PROFILES**  
**WATER & SEWER MAINS**

600' SCALE MAP NO. 46 BLOCK NO. 11

GILLEN PROPERTY; LOTS 1-4  
SEVERTSEN PROPERTY; LOTS 1-4  
CONTRACT NO. 24-3415-07  
SIXTH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN  
SHEET 2 OF 2

CONTRACT NO. 24-3415-07  
GILLEN PROPERTY; LOTS 1-4  
SEVERTSEN PROPERTY; LOTS 1-4  
WATER AND SEWER EXTENSIONS  
HOWARD COUNTY, MARYLAND