

MANHOLE	TRAVERSE STATION	OFFSET
60	0+31.00	225' RIGHT
61	1+03.00	133' RIGHT

TRAVERSE POINT	STATION
DD #1	0+00.00
DD #2	3+04.48

QUANTITIES			
ITEM	ESTIMATED	AS-BUILT	MATERIAL/SUPPLIER
8" SEWER	214 L.F.	214.0 L.F.	CHARLOTTE / GRIFFIN
MANHOLE	2 EA.	2 EA.	ATLANTIC PRECAST
4" S.H.C.	35 L.F.	35 L.F.	PVC CHARLOTTE
3/4" W.H.C.	40 L.F.	33 L.F.	MUELLER

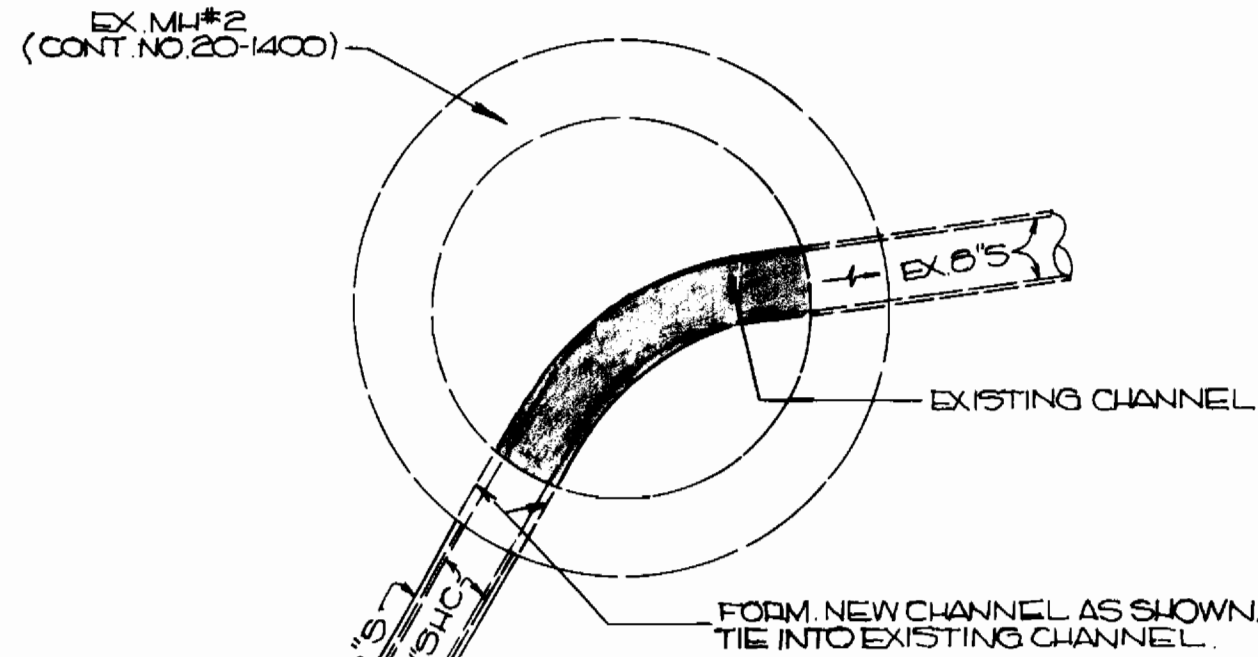
LEGEND	
PROPOSED	EXISTING
SANITARY SEWER	EX 8" S
SEWER HOUSE CONN.	EX 16" W
WATER MAIN	EX 4" S
WATER HOUSE CONN. W/ BALL VALVE	EX 4" S
GAS MAIN	EX 15" D
STORM DRAIN	
TEST PIT	



TRAVERSE POINT
DD #1
IRON PIPE FOUND
N 407,945.41
E 836,006.07



TRAVERSE POINT
DD #2
IRON PIPE FOUND
N 406,154.70
E 835,765.52



CHANNEL DETAIL
EXISTING MANHOLE NO. 2
SCALE: 1" = 2'

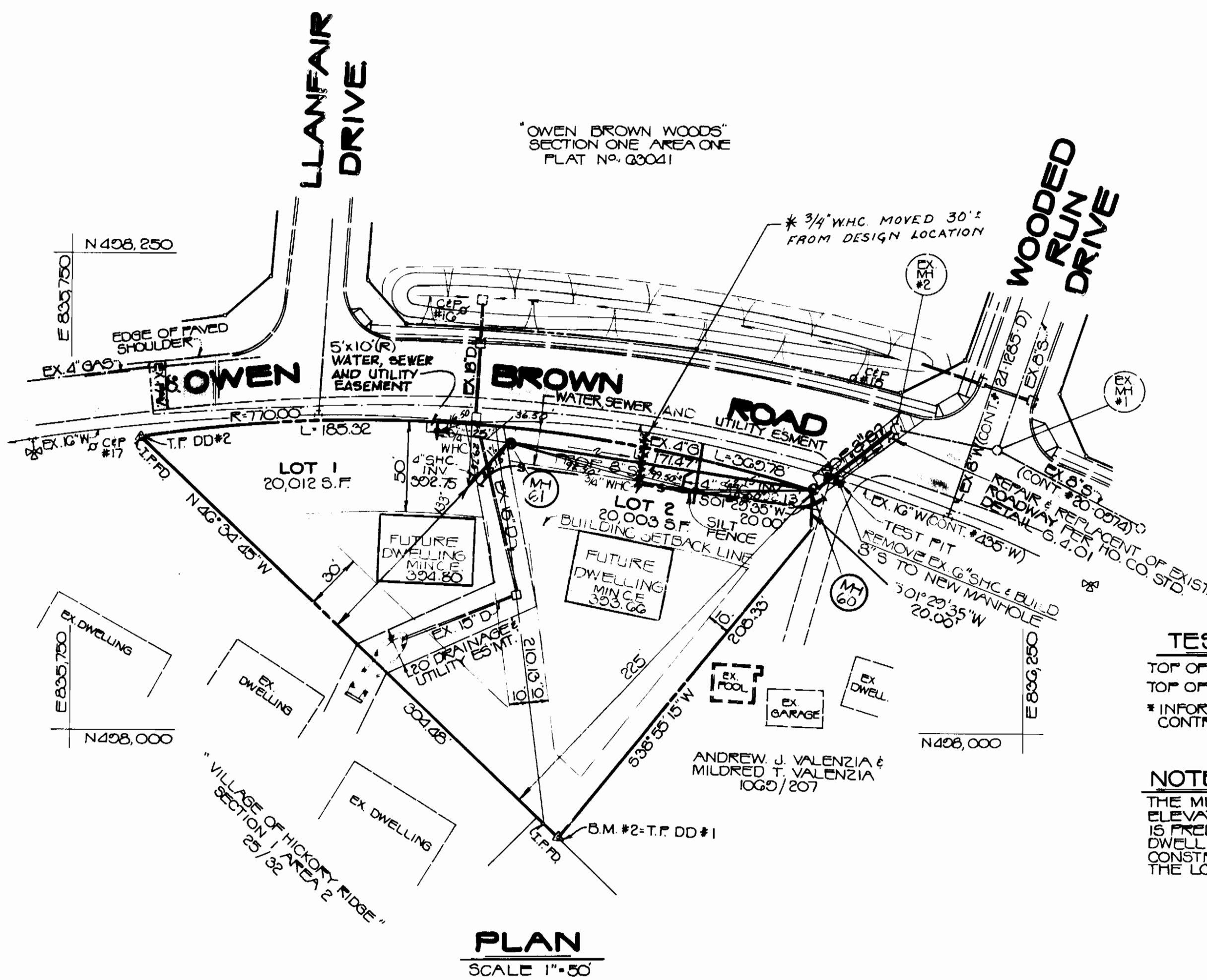
FILE NO. F-82-46

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL AND THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. THIS PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

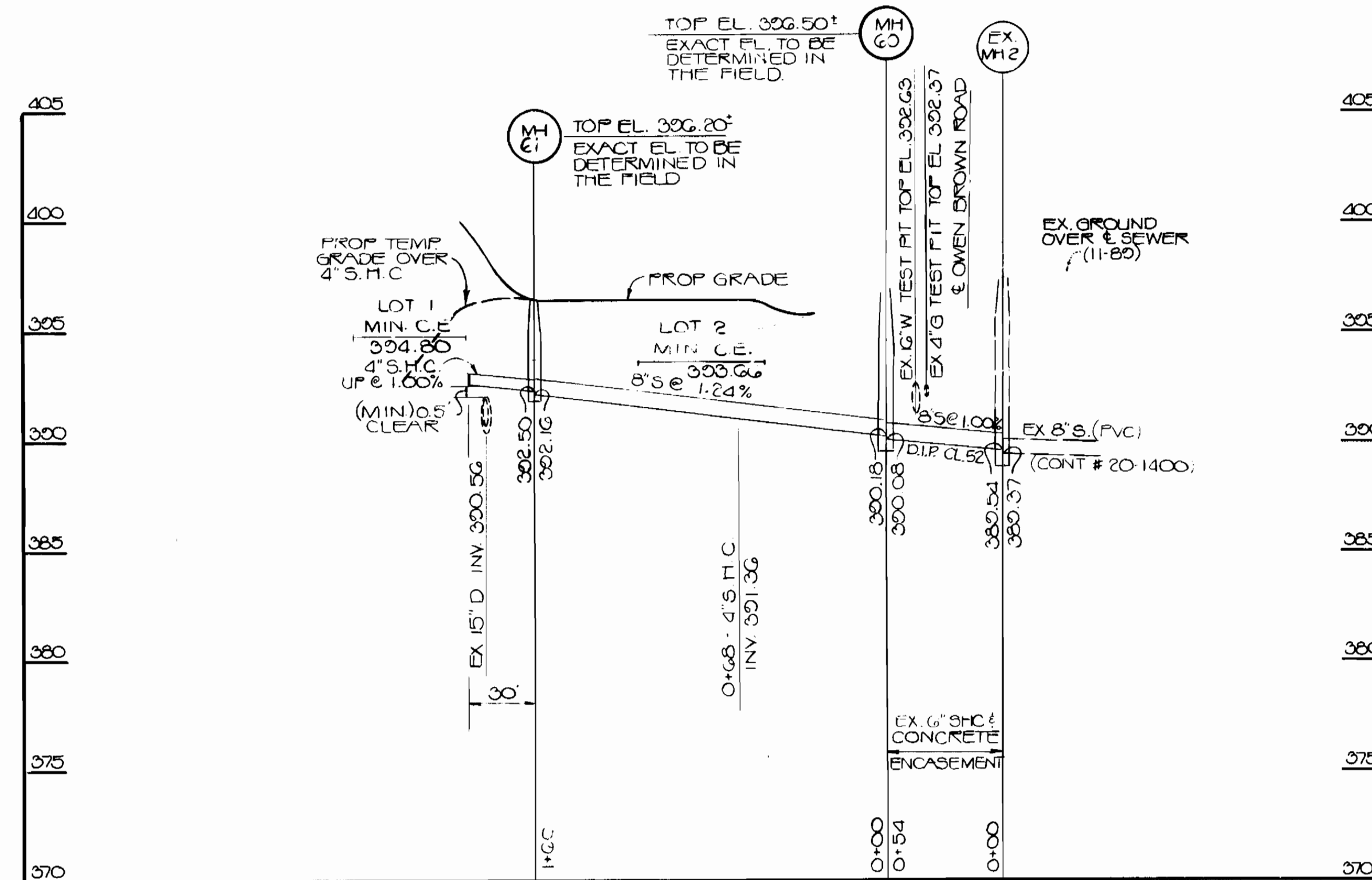
John R. Chuter
HOWARD SOIL CONSERVATION DISTRICT
DATE: 8/27/90

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

James M. Hester
U.S. SOIL CONSERVATION SERVICE
DATE: 8/27/90



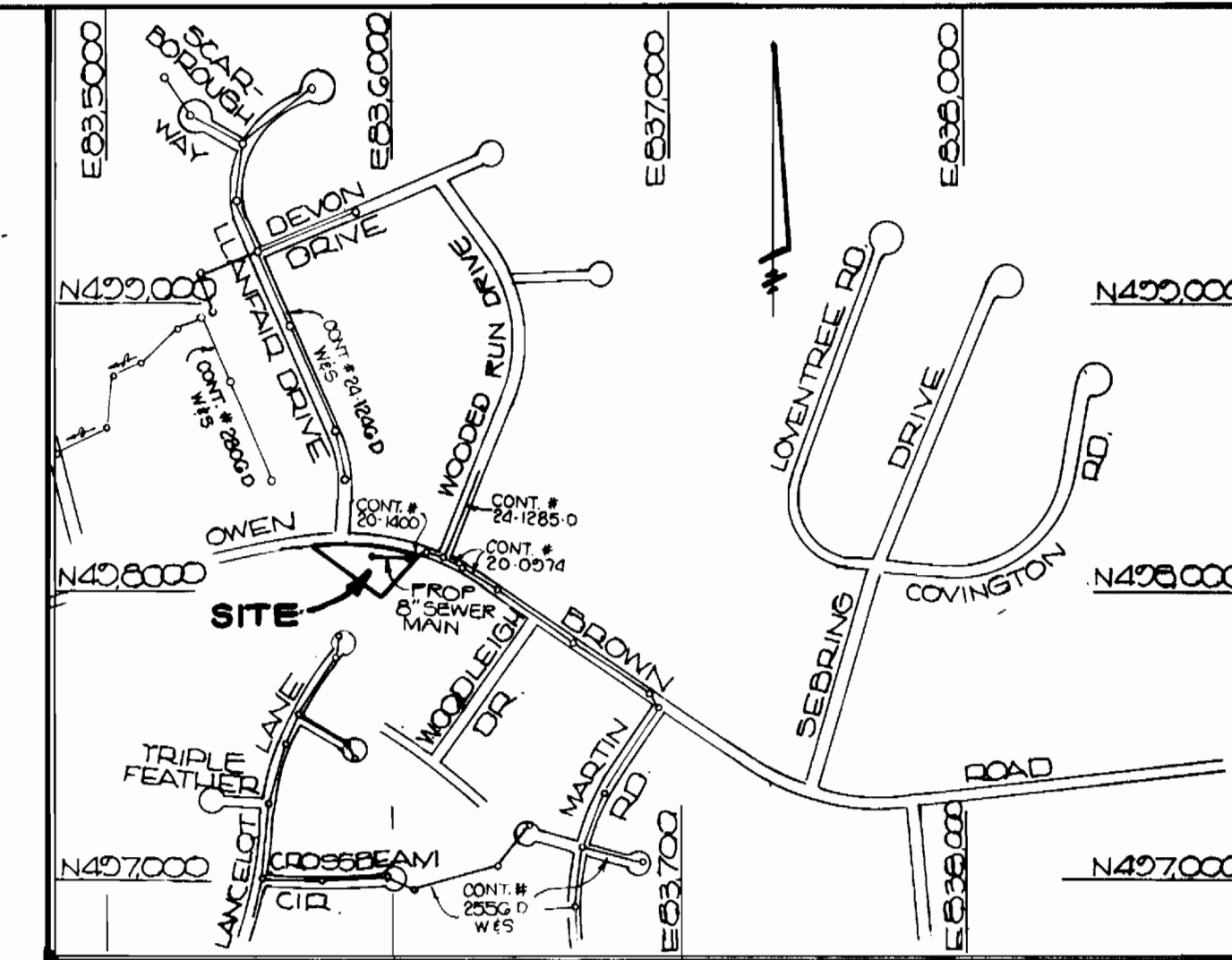
PLAN
SCALE 1" = 50'



PROFILE
VERT. 1" = 5'
HORZ. 1" = 50'

BENCH MARKS

B.M. No. 1 ELEV. 302.37
DESCRIPTION: RAILROAD SPIKE IN 6 1/2" POLE #254700 NORTH SIDE OWEN BROWN ROAD 500' ± SOUTH EAST OF INTERSECTION OF OWEN BROWN ROAD AND WOODEN RUN DRIVE.
B.M. No. 2 ELEV. 305.75
DESCRIPTION: IRON PIPE FOUND SOUTHEASTERN MOST PROPERTY CORNER.



VICINITY MAP
SCALE: 1" = 600'
SEWER CODE FOR COUNTY USE ONLY: SEWER No. 5324400
WATER CODE NO. E-30

TEST PIT RESULTS*

TOP OF EX 4" GAS - ELEV. 302.37
TOP OF EX 16" WATER - ELEV. 302.63
* INFORMATION TAKEN FROM CONTRACT No. 20-1400.

NOTE

THE MINIMUM SEWER SERVICE ELEVATION INDICATED IN PLAN IS PRECIPITATED UPON THE FUTURE DWELLINGS ON THE PARCEL BEING CONSTRUCTED IN APPROXIMATELY THE LOCATION SHOWN.

GENERAL NOTES

- 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.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 CONTRACTED THE UTILITY COMPANIES AND HAS MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON THE DRAWING. 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 DAMAGED 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 DETAILS FOR CONSTRUCTION. 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 DIG SHALL BE LOCATED BY THE CONTRACTOR TWO WEEKS IN 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-531-5533
BALTIMORE GAS & ELECTRIC CO. CONTRACTORS SERVICES 561-2585
BALTIMORE GAS & ELECTRIC CO. - UNDER GROUND DAMAGE CONTROL 224-5521
BALTIMORE GAS & ELECTRIC CO. - TROUBLE SHOOTING-206-3013
MPS UTILITY-1-559-0100
COLONIAL PIPELINE CO.-705-1330
BUREAU OF UTILITIES, HOWARD COUNTY DEPT. OF PUBLIC WORKS-292-2366
- 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 THE LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL SEWER MAINS SHALL BE C.S.P.R., R.C.S.P.V.C.R. 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.
- T.B. DENOTES TEST BORING.
- OFFICE OF PLANNING & ZONING FILE No. F-82-46.
- ALL WATER HOUSE CONNECTIONS FOR AN IN-SITU METER SETTING.

AS-BUILT
COMPLETED 11-6-91

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND
DATE: 8-22-90
DATE: 8/27/90

W. DUVALL & ASSOCIATES, INC.
ENGINEERS - SURVEYORS - LAND PLANNERS
530 EAST JOPPA ROAD
TOWSON, MARYLAND 21284
(301) 583-9571

DES G.M.M.	DRN M.E.W.	CHK G.M.M.	DATE 3/2/90
BY	NO.	REVISION	DATE

WATER AND SEWER MAIN
EXTENSION
PLAN AND PROFILE

WATER AND SEWER MAIN EXTENSION
CONTRACT No. 24-3027-D
"VALENZIA PROPERTY"
LOTS 1 AND 2

SCALE AS SHOWN
SHEET 1 OF 1

600' SCALE MAP NO. 39 BLOCK NO.

TAX MAP No. 39 PARCEL 367
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND