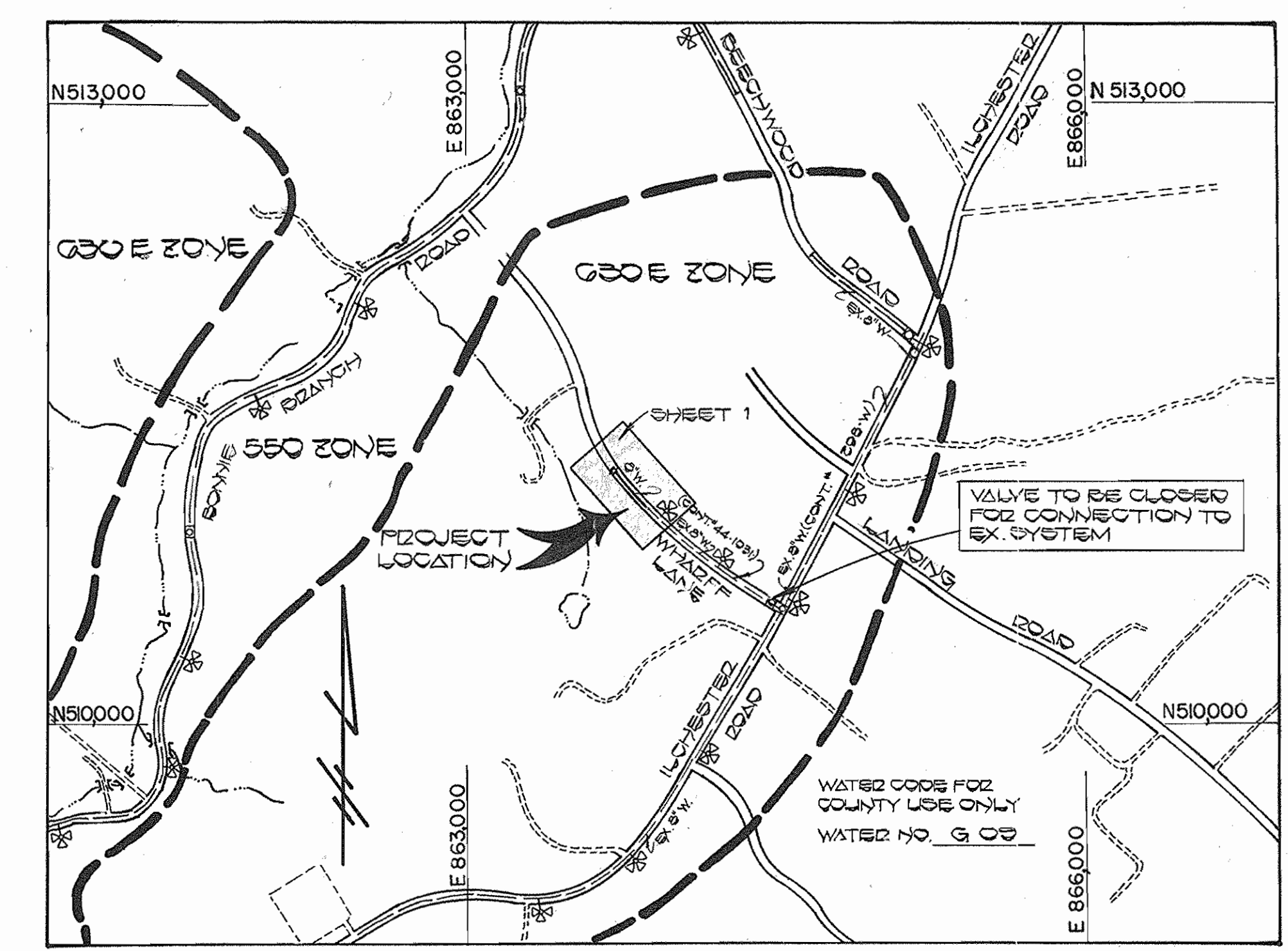
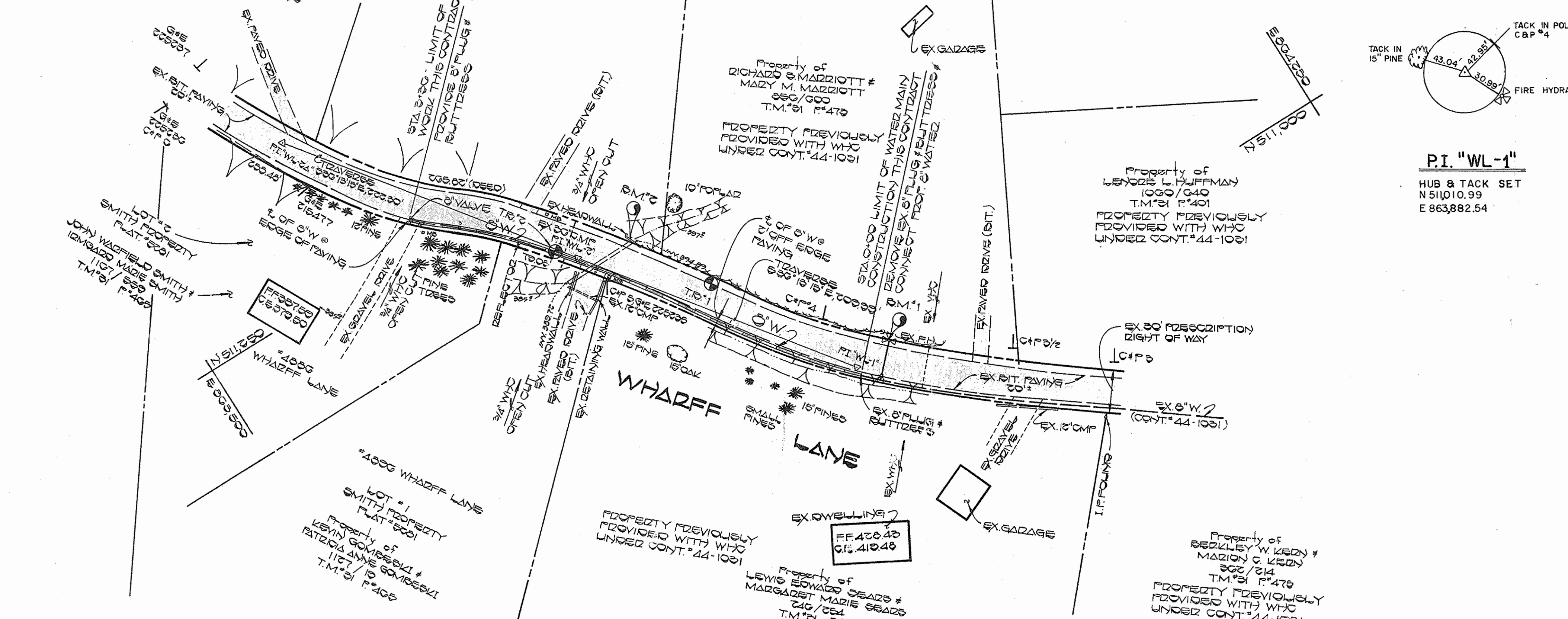


**BENCH MARKS**

B.M.#1 ELEV. 423.47  
 X-CUT ON BONNET BOLT OF EX. FIRE HYDRANT ON THE NORTH SIDE OF WHARFF LANE, APPROX. 50' EAST OF P.I. WL-1

B.M.#2 ELEV. 300.03  
 X-CUT IN EXISTING CONCRETE HEADWALL ON NORTH SIDE OF WHARFF LANE APPROX. 40' EAST OF P.I. WL-2

NOTE:  
 THESE ARE EXISTING LOW OVERHEAD POWER LINES BETWEEN G#8 225235 AND G#8 215477



TYPE OF BUILDINGS: RESIDENTIAL  
 NUMBER OF PARCELS: 2  
 NUMBER OF WATER HOUSE CONNS: 2  
 DRAINAGE AREA: PATAPSCO

VICINITY MAP  
 SCALE: 1"=600'

**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.G.S. DATUM
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 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. 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 [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.
- 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 859-9004
  - BALTIMORE GAS & ELECTRIC CO. TROUBLE SHOOTING 298-9001
  - MISS UTILITY 1-559-0100
  - COLONIAL PIPELINE CO. 795-1390
  - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 992-2366
  - CHESAPEAKE & POTOMAC (C & P) TELEPHONE COMPANY 1-800-257-7777
- 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 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 STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1003 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 THE PLANS OR IN THE SPECIFICATIONS.
- T.B DENOTES TEST (SOIL) BORING

QUANTITIES			
ITEM	EST'D	AS-BUILT	SUPPLIER
6" WATER	330 LF		
6" VALVES	1 EA		
3/4" W/C	55 LF		

WATER MAIN STAKE-OUT TABLE			
STATION	DISTANCE ALONG TRVERSE	OFFSET	REMARKS
1+00	50' FROM WL-1 TOWARDS WL-2	0' LEFT	1/2" OF W.M. 6" OFF EDGE OF PAVING
2+00	100' FROM WL-1 TOWARDS WL-2	0' (1/2" OFFSET)	1/2" OF W.M. 6" EDGE OF PAVING
3+00	150' FROM WL-1 TOWARDS WL-2	10' LEFT	1/2" OF W.M. 6" EDGE OF PAVING
4+00	110' FROM WL-2 TOWARDS WL-1	18' LEFT	1/2" OF W.M. 6" EDGE OF PAVING

RESTORATION SCHEDULE	
STATION	MATERIAL
0+00 TO 1+00	SEED & MULCH
1+00 TO 2+00	BITUMINOUS CONCRETE WITHIN PAVED ROADWAY & DRIVEWAY; SEED & MULCH DISTURBED AREAS TO LEFT OF ROADWAY
2+00 TO 3+00	BITUMINOUS CONCRETE WITHIN PAVED ROADWAY & DRIVEWAY; SEED & MULCH DISTURBED AREAS TO LEFT OF ROADWAY
3+00 TO 4+00	BITUMINOUS CONCRETE WITHIN PAVED ROADWAY; SEED & MULCH DISTURBED AREAS TO LEFT OF ROADWAY

**SEDIMENT CONTROL NOTES**

- SEDIMENT CONTROL APPROVAL IS PREDICATED ON DAILY BACKFILLING OF ALL OPEN TRENCHES
- PROVISIONS SHALL BE MADE FOR DAILY CLEANUP OF ANY SEDIMENT THAT ACCUMULATES ON THE PUBLIC RIGHTS-OF-WAY

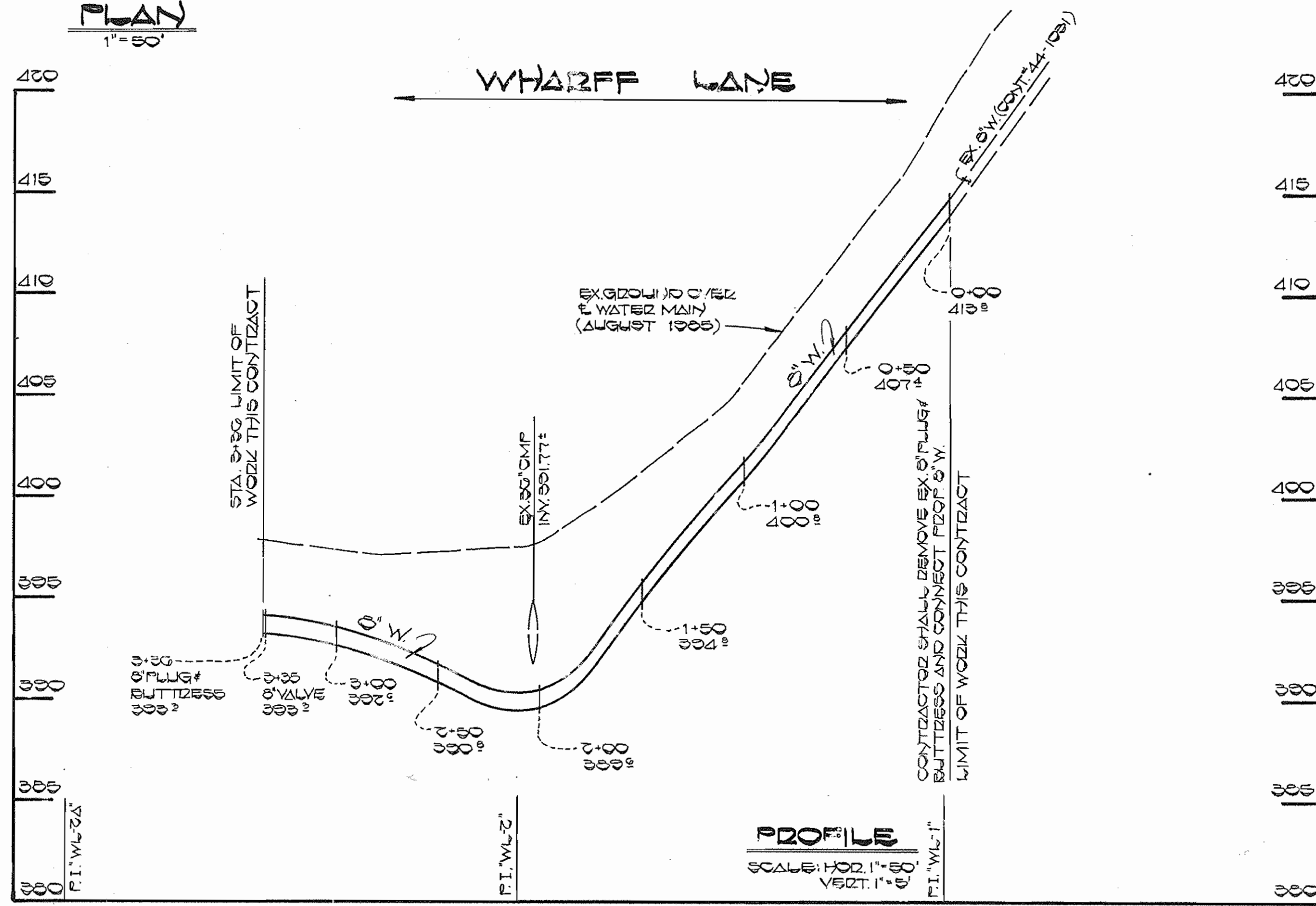
SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 15 OF THE HOWARD COUNTY DESIGN MANUAL STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS

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

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

*[Signature]* 10-31-86  
 U.S. SOIL CONSERVATION DISTRICT DATE

*[Signature]* 10/31/86  
 HOWARD COUNTY SOIL CONSERVATION DISTRICT / DATE



DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*[Signature]* 11-12-86  
 DIRECTOR OF PUBLIC WORKS DATE

*[Signature]* 11-7-86  
 CHIEF, BUREAU OF UTILITIES DATE

*[Signature]* 10/29/86  
 CHIEF, UTILITY DESIGN DIVISION DATE

FISHER, COLLINS AND CARTER, INC  
 CONSULTING ENGINEERS AND LAND SURVEYORS

8388 COURT AVENUE  
 ELLICOTT CITY, MARYLAND 21043

TERRELL A. FISHER DATE

DES: P.W.K.  
 DRN: P.C.S.  
 CHK: T.A.F.  
 DATE: 10/6/86

BY NO. REVISION DATE

PLAN, PROFILE AND DETAILS  
 WATER MAIN EXTENSION

600' SCALE MAP NO. 31 BLOCK NO.

WHARFF LANE WATER MAIN EXTENSION  
 CAPITAL PROJECT W-8686  
 CONTRACT NO. 44-1559  
 FIRST ELECTION DISTRICT  
 HOWARD COUNTY, MARYLAND

SCALE: AS SHOWN  
 SHEET 1 OF 1