

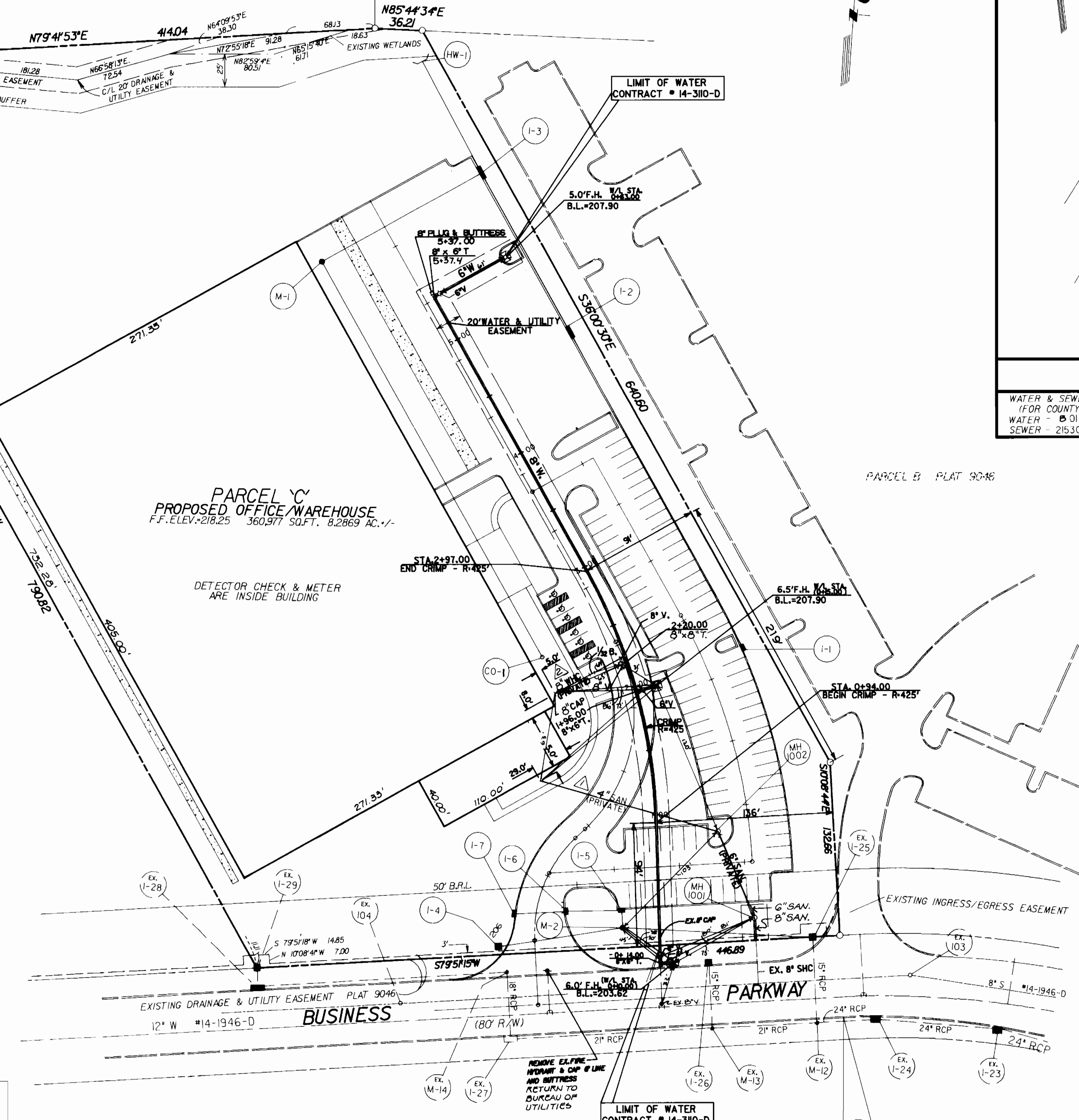
QUANTITIES			
ITEM	BID	AS-BUILT	MATERIAL / SUPPLIER
6" WATER MAIN	88 LF	92	ATLANTIC STATES CAST IRON
8" WATER MAIN	55 LF	54	ATLANTIC STATES CAST IRON
5.0" FIRE HYDRANT	1	1	MUELLER CO.
6.0" FIRE HYDRANT	1	1	MUELLER CO.
6.5" FIRE HYDRANT	1	1	MUELLER CO.
8" X 6" T	4	4	TYLER PIPE & FOUNDRY
8" VALVE	2	2	MUELLER CO.
6" VALVE	4	4	MUELLER CO.
8" PLUG	1	1	TYLER PIPE & FOUNDRY
8" 1/2" VERTICAL BEND	2	2	CERTANTEED CORP.
8" SANITARY SEWER	27 LF	17	CERTANTEED CORP.
48" SAN. SEWER DROP MANHOLE	1	1	AMERCAST

B.M. "MAR" ELEV. 197.12
 R.R. SPIKE IN THE WEST SIDE OF AN 18" POPLAR LOCATED
 APPROXIMATELY 125' SOUTH OF THE CENTERLINE OF BUSINESS
 PARKWAY AT STATION 43+25 +/-

B.M. "910" ELEV. 201.29
 P.K. NAIL SET IN SOUTHERN CURB OF BUSINESS PARKWAY
 ACROSS FROM STATION 40+38 +/-

PARCEL J PLAT 9043

PARCEL L PLAT 9043



VICINITY MAP
 SCALE: 1" = 600'

WATER & SEWER CODE: (FOR COUNTY USE)	DRAINAGE AREA: PATAPSCO
WATER - 0.01	TYPE OF BUILDINGS: OFFICE/WAREHOUSE
SEWER - 215.0000	No. OF WHC: 1
	No. OF SHC: 1

E. 864250
 N. 492250

E. 864250
 N. 492000

E. 865500
 N. 492000

BM. "MAR"

BM. "910"

REVIEWED FOR HOWARD S.C.D.
 AND METRIC TECHNICAL REQUIREMENTS.
[Signature] 3/15/91
 S. SOIL CONSERVATION DATE
 SERVICE

THIS DEVELOPMENT PLAN IS APPROVED FOR
 SOIL EROSION AND SEDIMENT CONTROL
 BY THE HOWARD SOIL CONSERVATION DISTRICT
[Signature] 3/15/91
 HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES FOR
 THIS CONTRACT WILL BE IMPLEMENTED
 IN ACCORDANCE WITH ARTICLE 15
 OF THE STANDARD SPECIFICATION, AND
 SITE PLAN SDP - 91-54

BEFORE BEGINNING CONSTRUCTION, CONTACT
 "MISS UTILITY" AT 1-800-257-7777 AT LEAST
 48 HOURS PRIOR TO CONSTRUCTION

SCALE: 1" = 50'

- 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. DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY 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, 1989 AMENDMENT 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 IN 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 SERVICE 850-4620
BALTIMORE GAS & ELECTRIC CO. -	UNDERGROUND DAMAGE CONTROL 859-9004
BALTIMORE GAS & ELECTRIC CO. -	TROUBLE SHOOTING 298-9001
MISS UTILITY -	1-800-257-7777
COLONIAL PIPELINE CO. -	795-1390
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.
 - ALL WATER MAIN TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 42" 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. SOILS AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - ALL WATER HOUSE CONNECTIONS SHALL BE FOR AN INSIDE METER SETTING, UNLESS OTHERWISE NOTED.
 - EXTEND PIPE AS NECESSARY TO INSTALL PLUG FOR BLOCKING, WHERE WATER MAINS END WITH VALVES.
 - ALL SEWER MAINS SHALL BE C.S.P.X., D.I.P., V.C.P.X., 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.
 - ORIGINAL GROUND OVER WATER AND SEWER WAS TAKEN.
 - STRAW BAIL DICES AND SILT FENCES ARE INTERCHANGEABLE.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH A.M.W.A. SPECIFICATION C-153, DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
 - ALL SERVICE CLAMPS ARE TO HAVE STAINLESS STEEL STRAPS.
 - ALL FIRE HYDRANTS SHALL BE INSTALLED PER SOT. DETAIL W-1.11

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

[Signature] 3-18-91
 DIRECTOR OF PUBLIC WORKS DATE

[Signature] 3/14/91
 CHIEF, BUREAU OF ENGINEERING DATE

[Signature] 3-11-91
 CHIEF, BUREAU OF UTILITIES DATE

[Signature] 3/14/91
 CHIEF, LAND DEVELOPMENT DIVISION DATE

ENGINEERS ARCHITECTS PLANNERS SCIENTISTS SURVEYORS PHOTOGRAMMETRISTS

GREENHORNE & O'MARA, INC.
 113 WEST ROAD, SUITE 208
 BALTIMORE, MD. 21204
 PHONE (301) 296-4100

[Signature]
 STATE OF MARYLAND

DES: TJW			
DRN: TJW/CADD			
CHK: RHM	GEO	G"WHC. TO 8"WHC.	11.8.91
	GEO	G"SAN. TO 4"SAN.	11.8.91
DATE: OCT. 90	BY NO.	REVISIONS	DATE

PLAN FOR SEWER &
 WATER MAIN EXTENSION

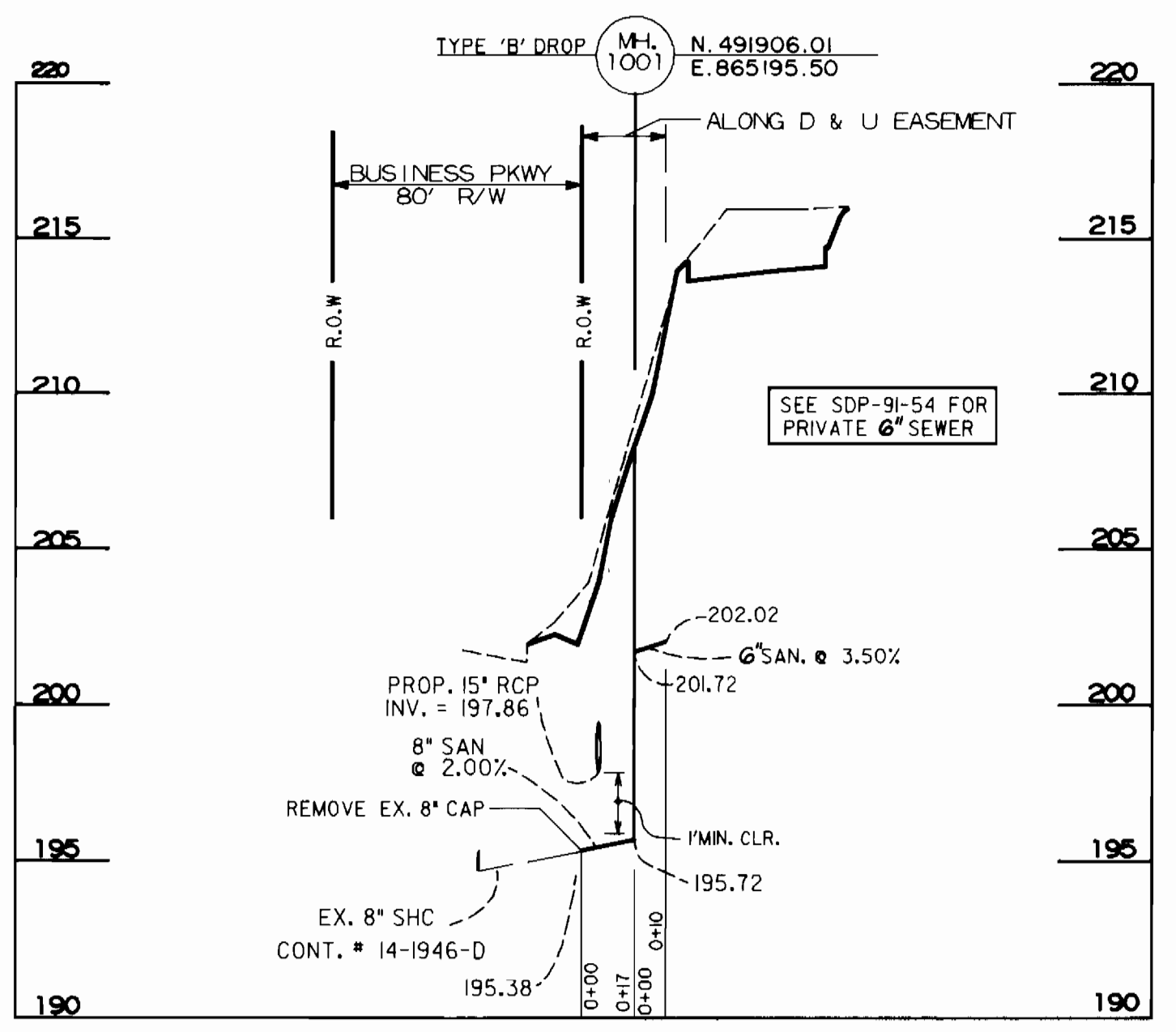
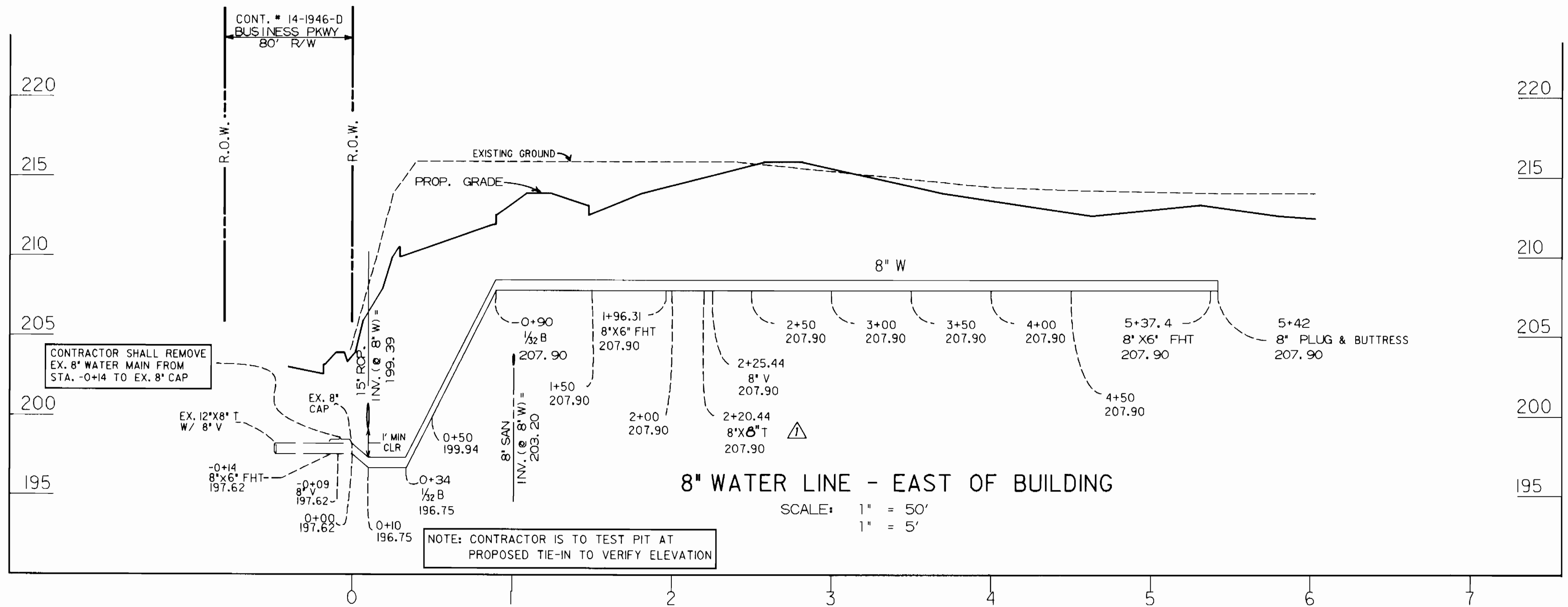
600' SCALE MAP NO. BLOCK NO.

PARCEL - C
 MEADOWRIDGE BUSINESS PARK
 TAX MAP 37
 CONTRACT No. 14-3110-D

FIRST ELECTION DISTRICT HOWARD CO., MARYLAND

SCALE AS SHOWN

SHEET 1 OF 2



REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS
 U.S. SOIL CONSERVATION SERVICE
 DATE 2/15/91

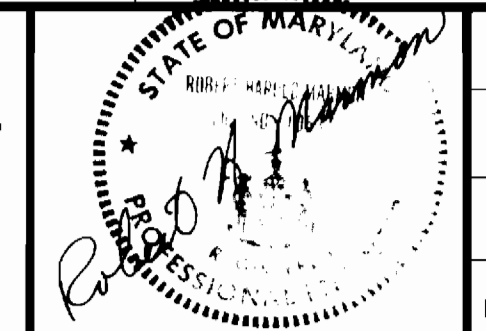
THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT
 DATE 2/15/91

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH ARTICLE 15 OF THE STANDARD SPECIFICATION, AND SITE PLAN SDP - 91 - 54

BEFORE BEGINNING CONSTRUCTION, CONTACT "MISS UTILITY" AT 1-800-257-7777 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND
 Director of Public Works: James J. [Signature] 3-18-91
 Chief, Bureau of Engineering: [Signature] 3-18-91
 Chief, Bureau of Utilities: Robert L. [Signature] 3-11-91
 Chief, Land Development Division: [Signature] 4/14/91

ENGINEERS-ARCHITECTS-PLANNERS-SURVEYORS-PHOTOGRAMMETRISTS
 GREENHORNE & O'MARA, INC.
 113 WEST ROAD, SUITE 208
 BALTIMORE, MD. 21204
 PHONE (301) 296-4100



DES: TJW	
DRN: TJW/CADD	
CHK: RHM	
DATE: OCT. 90	
BY: GLO	REVISED 8 3/4" T. TO 8" X 8" T.
NO.:	
REVISIONS:	
DATE:	11-8-91

PLAN FOR WATER & SEWER MAIN EXTENSION

PARCEL C
 MEADOWRIDGE BUSINESS PARK
 TAX MAP 37
 CONTRACT No. 14-3110-D
 FIRST ELECTION DISTRICT HOWARD CO., MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 2