

PUBLIC WATER PLAN CENTENNIAL LANE ELEMENTARY SCHOOL

HOWARD COUNTY, MARYLAND
CONTRACT NO. 44-4332-D, SDP-72-115

GENERAL NOTES

PART I.

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- TOPOGRAPHIC FIELD SURVEYS WERE PERFORMED ON MAY 2005 BY WHITNEY, BAILEY, COX, MAGNANI, LLC
- HORIZONTAL AND VERTICAL CONTROL:
COORDINATES SHOWN HEREON ARE REFERRED TO THE MARYLAND STATE PLANE COORDINATE SYSTEM, NAD 83/91, AS DETERMINED BY G.P.S. OBSERVATIONS FROM THE FOLLOWING HOWARD COUNTY SURVEY CONTROL STATIONS:

HO.CO.# 24AB	N 585,836.92	E 1,351,345.55	HO.CO.DISK 24AB
HO.CO.# 24GB	N 579,069.46	E 1,350,441.86	HO.CO.DISK 24GB
HO.CO.# 24GE	N 578,706.48	E 1,352,699.69	HO.CO.DISK 24GE

ELEVATIONS SHOWN HEREON ARE REFERRED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), AS DETERMINED BY G.P.S. OBSERVATIONS FROM THE FOLLOWING HOWARD COUNTY SURVEY CONTROL STATIONS:

HO.CO.# 24AB	EL. 383.21 (feet)
HO.CO.# 24GB	EL. 492.32 (feet)
HO.CO.# 24GE	EL. 445.78 (feet)

- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12 INCHES. CLEAR ALL POLES BY 5'-0" MINIMUM OR TUNNEL AS REQUIRED UNLESS OTHERWISE NOTED. 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 THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWING, AND FOR MATERIALS AND CONSTRUCTION METHODS, USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAILS 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 LOCATIONS OF THE TEST PITS. 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 EACH TEST PIT THAT HAS NOT BEEN DUG 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:

AT&T	1-800-252-1133
BGE (CONSTRUCTION SERVICES)	410-850-4620
BGE (EMERGENCY)	410-685-1400
BUREAU OF UTILITIES	410-313-4900
COLONIAL PIPELINE CO.	410-795-1390
MISS UTILITY	1-800-257-7777
STATE HIGHWAY ADMINISTRATION	410-531-5533
VERIZON	1-800-743-0033/410-224-9210

- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- THE 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.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD FOR LAYING WATER/SEWER MAIN OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

PART II. WATER

- ALL WATER MAINS SHALL BE D.I.P. CLASS 52, UNLESS OTHERWISE NOTED.
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 STANDARD DETAILS, UNLESS OTHERWISE PROVIDED FOR IN THE DRAWINGS.
- FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND SECTION 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

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

John K. Blanton 9/6/06
SOIL CONSERVATION DISTRICT DATE

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

Jim Meyer 9/6/06
SOIL CONSERVATION DISTRICT DATE

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Ruth B... 4-6-06
CHIEF, BUREAU OF UTILITIES DATE

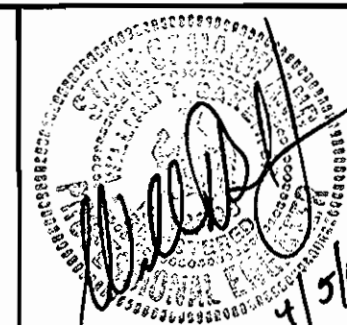
DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

... 4/6/06
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

ENGINEERS:



Consulting Engineers
849 Fairmount Avenue (410) 512-4500
Baltimore, Maryland 21286 (410) 324-4100 (FAX)
WHITNEY, BAILEY, COX & MAGNANI, LLC



DES: D.M.B.			
DRN: S.C.			
CHK: P.D.			
DATE: 1/27/06	K.C.I.	AS-BUILT DATA	08/25/06
BY: I.	NO.	REVISION	DATE

PUBLIC WATER PLAN

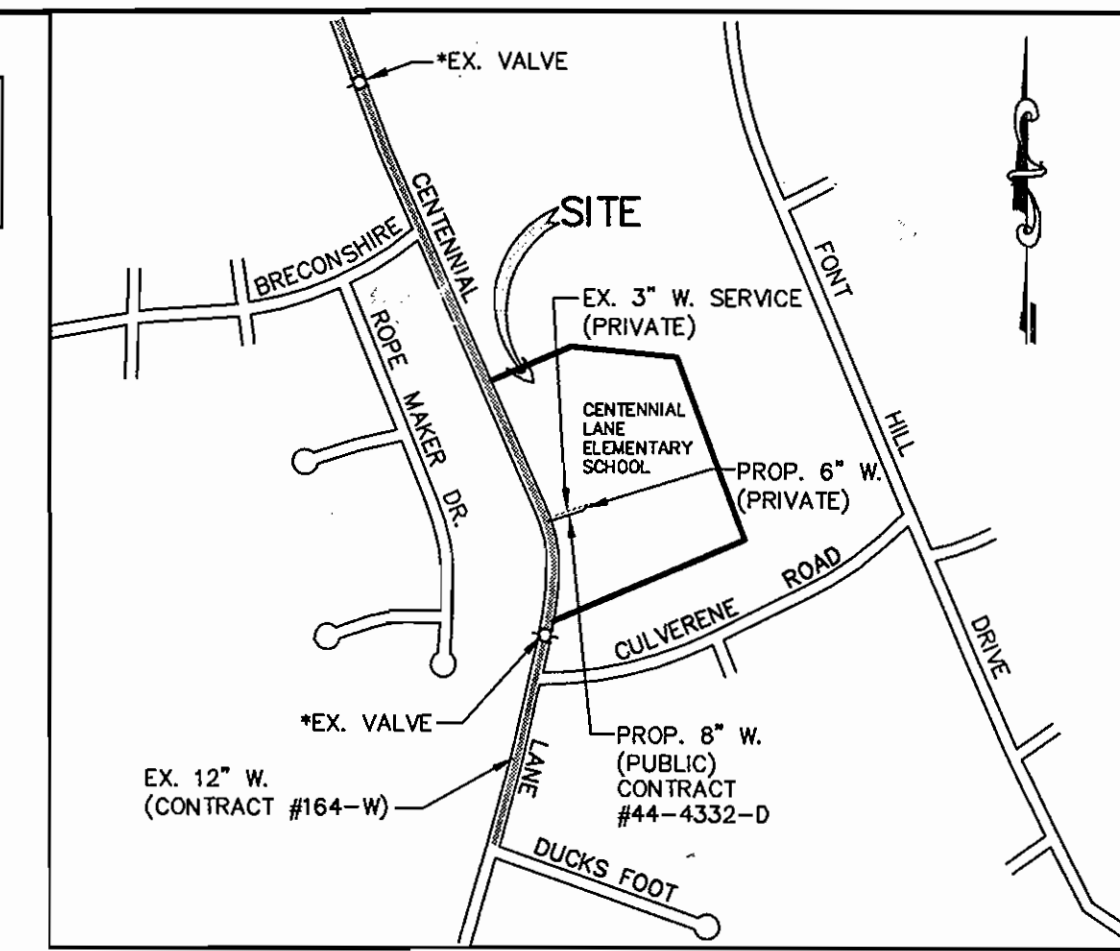
600' SCALE MAP NO. 24 PARCEL NO. 1029

TYPE OF BUILDING : SCHOOL
NO. OF LOTS : 1
NO. OF W.H.C. : 1
NO. OF S.H.C. : 0

WATER & SEWER CODE
WATER CODE F12
SEWER CODE -
TEST GRADIENT -

LEGEND

DESCRIPTION	EXISTING	PROPOSED
BUILDING	EX. BLDG.	
PAVING	EX. MACADAM	
CONCRETE SIDEWALK	EX. WALK	
CURB		
ELECTRIC		
STORM DRAIN		
WATER VALVE		
HYDRANT		
WATER METER INLET		
GUARD RAIL		
CONTOUR	4.31	4.30
SPOT ELEVATION	4.31.58	
FENCE		
TREE/SHRUB		
POLE		
SIGN		
TELE. BOX		
GAS VALVE		
LIGHT POLE		
BENCHMARKS		BM #904



VICINITY MAP

SCALE: 1"=600'

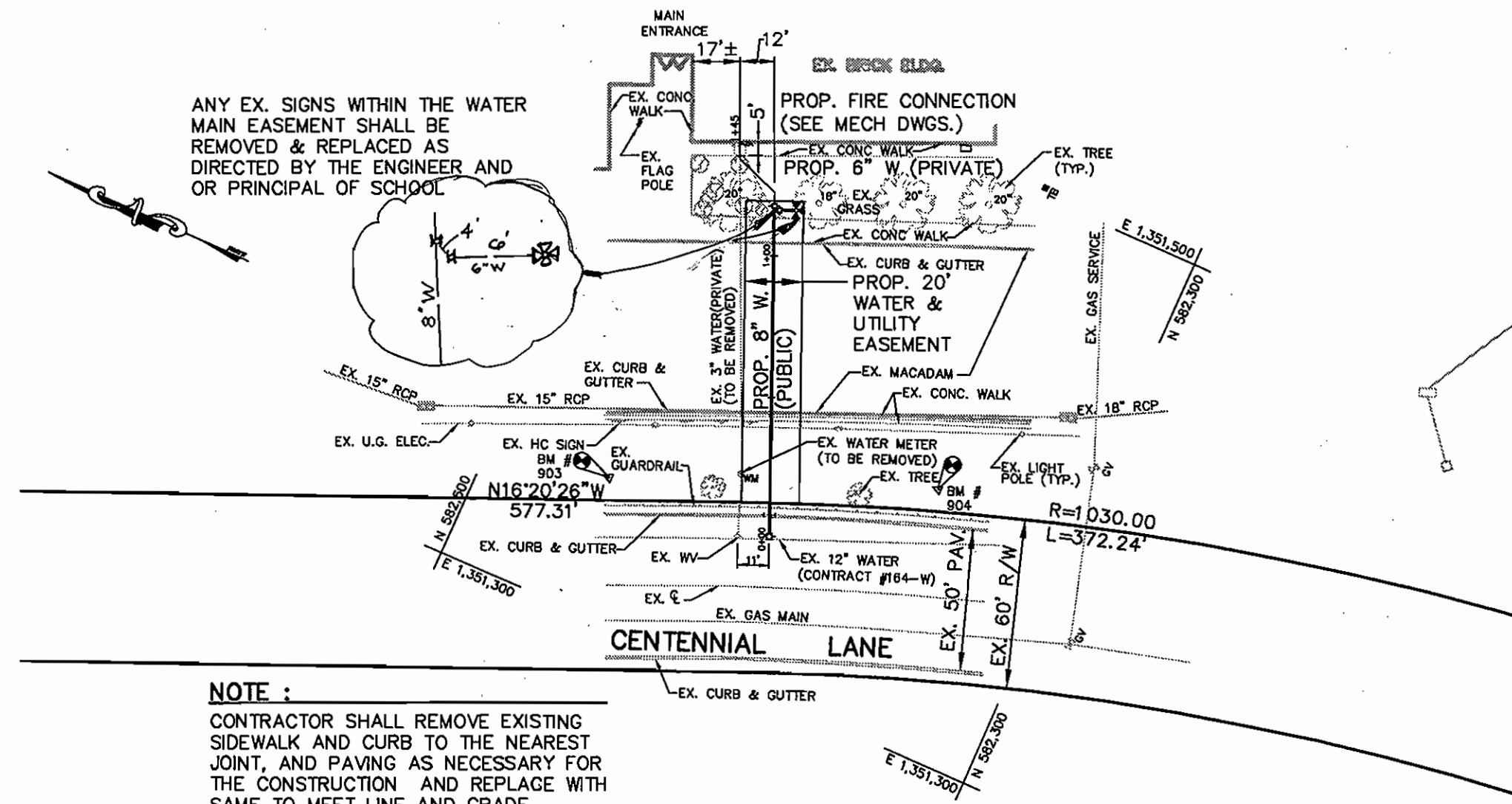
* DENOTES VALVES TO BE CLOSED FOR ABANDONMENTS AND IN CASE OF EMERGENCY DURING CONNECTION OF NEW WATER LINE.

W.B.C.M. TRAVERSE AND BENCHMARKS

PT#	NORTHING	EASTING	ELEV. DESCRIPTION
900	582,292.65	1,351,844.53	413.49 REBAR & CAP
901	582,745.29	1,351,801.06	424.21 REBAR & CAP
902	582,846.61	1,351,243.69	438.50 X-CUT
903	582,457.02	1,351,348.08	431.53 REBAR & CAP
904	582,350.19	1,351,391.04	429.73 REBAR & CAP

NOTE : INSIDE METER SETTING

ANY EX. SIGNS WITHIN THE WATER MAIN EASEMENT SHALL BE REMOVED & REPLACED AS DIRECTED BY THE ENGINEER AND OR PRINCIPAL OF SCHOOL.



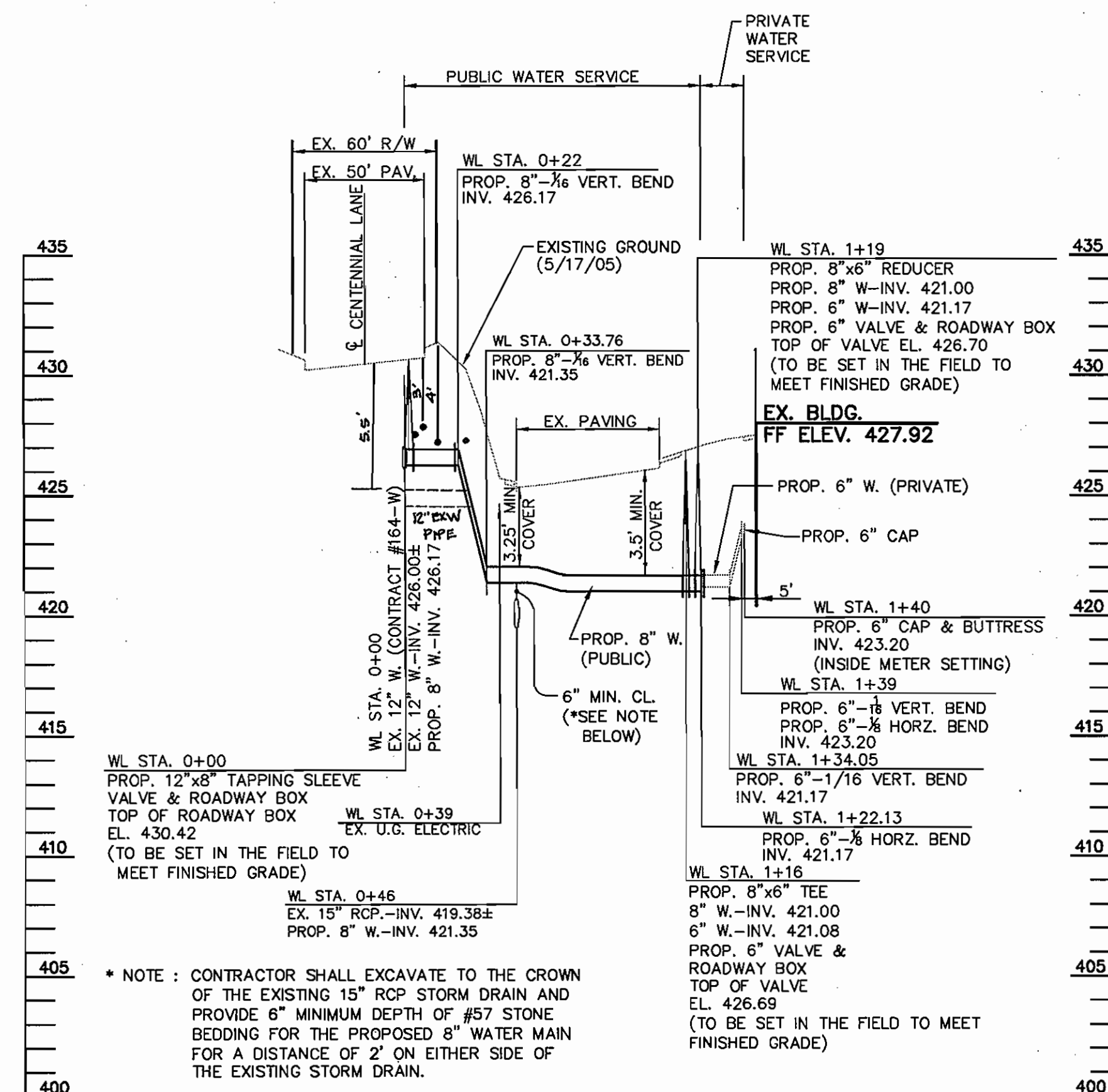
NOTE : CONTRACTOR SHALL REMOVE EXISTING SIDEWALK AND CURB TO THE NEAREST JOINT, AND PAVING AS NECESSARY FOR THE CONSTRUCTION AND REPLACE WITH SAME TO MEET LINE AND GRADE.

NOTE : CONTRACTOR SHALL REMOVE ALL TREES AND SHRUBS WITHIN THE WATER MAIN EASEMENT.

NOTE : CONTRACTOR SHALL REMOVE THE EXISTING VALVE, ROADWAY BOX, 3" DOMESTIC SERVICE AND PLUG THE EXISTING 12" WATER MAIN.

PLAN

SCALE: 1"=50'



WATER SERVICE PROFILE

SCALE: HORIZ. 1"=50' VERT. 1"=5'

WATER MAIN TABULATION CHART

WL STA. (OFFSET)	APPURTENANCE	NORTH/EASTING
0+00	12" x 8" TAPPING SLEEVE VALVE & ROADWAY BOX	N582396.97/E1351350.70
+1+16	6" VALVE & ROADWAY BOX	N582442.43/E1351457.59
+1+18 (7.50' RT)	6" FIRE HYDRANT	N582435.52/E1351460.53
+1+19	6" VALVE & ROADWAY BOX	N582443.60/E1351460.35
+1+22	6"-1/8" HORZ. BEND	N582444.83/E1351463.23
+1+39	6"-1/8" HORZ. BEND	N532460.70/E1351469.29
+1+40	6" CAP & BUTTRESS	N582461.12/E1351470.26

NOTES

- WATER CONNECTION WITHIN CENTENNIAL LANE TO BE OPEN CUT. CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIMES.
- ALL DISTURBED UNPAVED AREA SHALL BE TOPSOILED, FERTILIZED, LIMED AND SODED, EXCEPT AREAS TO BE PLANTED. TOPSOIL DEPTH SHALL BE A MINIMUM OF 4 INCHES COMPACTED.
- ALL SEDIMENT AND EROSION CONTROL FEATURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPED AREAS," 1983 EDITION.
- ALL UNSUITABLE AND EXCESS FILL MATERIAL SHALL BE DISPOSED OF OFF SITE. LOCATION OF DISPOSAL AREA SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CONTRACTOR SHALL CLEAN UP THE WORK AREA AT THE COMPLETION OF THE PROJECT. ALL AREAS DISTURBED DURING THE CONSTRUCTION ACTIVITY SHALL BE REPAIRED TO THE SATISFACTION OF THE SCHOOL'S PRINCIPAL AND/OR OWNERS REPRESENTATIVE.
- REFER TO MECHANICAL DRAWINGS FOR CONTINUATIONS OF WATER SERVICE TO THE EXISTING BUILDING FOR TIE-IN.

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT	
		QUANTITIES	TYPE MANUFACTURER/SUPPLIER
6" VALVE	2 EA.	2	D.I.P. CLASS 52 KENNEDY VALVE
6" VALVE	1 EA.	1	" " " " " "
6" DIP	31.5 LF.	7	" " " " U.S. PIPE & FOUNDRY
6" FIRE HYDRANT (5' BURY)	1 EA.	1	" " " " KENNEDY VALVE
6" x 6" TEE	1 EA.	1	" " " " TYLER
6" x 6" REDUCER	1 EA.	1	" " " " " "
12" x 8" TAPPING SLEEVE AND VALVE	1 EA.	1	" " " " FORD/KENNEDY VALVE
6"-1/8" HORZ. BEND	2 EA.	2	" " " " TYLER
6"-1/8" VERT. BEND	4 EA.	4	" " " " " "

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
-	3825 CENTENNIAL LANE, ELLICOTT CITY, MD. 21043

SUBDIVISION NAME CENTENNIAL ELEMENTARY SCHOOL	SECT./AREA -	LOT/PARCEL 1029
PLAT AND/OR L/F 540/235 & 540/243	BLOCK # 7,8,13,14	ZONE R-20
TAX/ZONE MAP 24/	ELEC. DIST. 2	CENSUS TR. 6023.01
WATER CODE F12	SEWER CODE -	TEST GRADIENT -
DRAINAGE AREA : LITTLE PATUXENT RIVER		

WATER SERVICE TO SDP 72-115

3825 CENTENNIAL LANE
HOWARD CO., MARYLAND
Contract No. 44-4332-D
Election District #2

SCALE AS SHOWN
SHEET 1 OF 1