

SHEET INDEX

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# PUBLIC WATER EXTENSION GENERAL OFFICE/RETAIL & CHICK-FIL-A

JOHN'S HOPKINS ROAD & OLD COLUMBIA ROAD  
(HOPKINS STATION)

TAX MAP 41, GRID 22, PARCEL 425

5th ELECTION DISTRICT

HOWARD COUNTY, MARYLAND


CONTRACT NO.44-4469-D

**BENCHMARKS**

GEODEIC SURVEY CONTROL #41EC  
N 543,588.804  
E 1,342,628.780  
ELEV. = 430.38  
STANDARD DISC ON CONCRETE MONUMENT BEING 23' NORTH OF A TRAFFIC SIGNAL POLE, 5.8' SOUTH OF THE PC OF THE CURB AND 3.3' SOUTH OF CURB EAST BOUND JOHN'S HOPKINS ROAD NEAR JOHN'S HOPKINS UNIVERSITY APPLIED PHYSICS LAB.

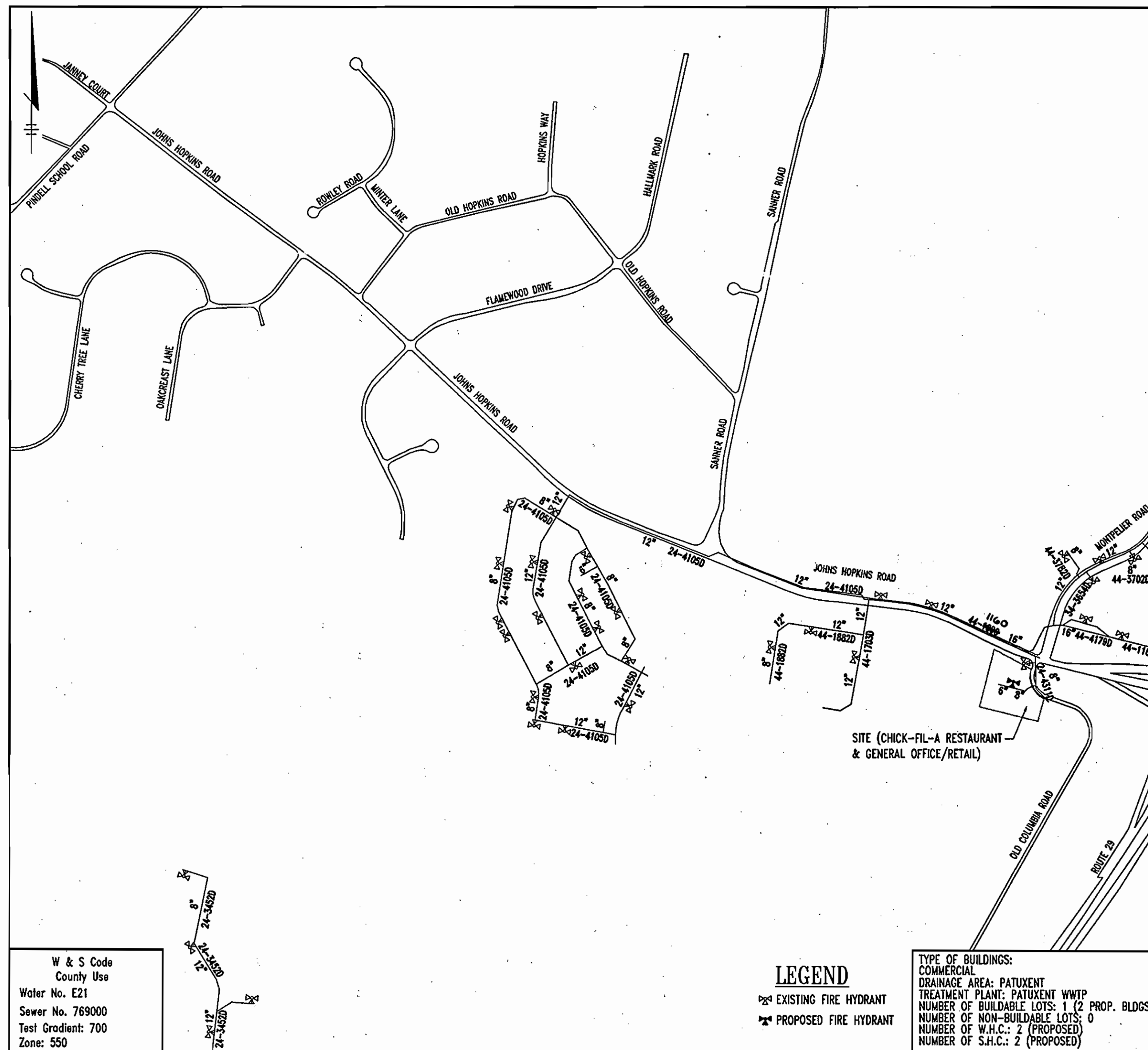
GEODEIC SURVEY CONTROL #41FA  
N 543,109.935  
E 1,344,797.520  
ELEV. = 407.60  
STANDARD DISC ON CONCRETE MONUMENT BEING 8' EAST OF BGE POLE #555368, 13.3' SOUTH OF LEFT REAR CORNER OF INLET AND 2.7' NORTH OF THE EDGE OF HAMMOND PARKWAY.

**GENERAL NOTES**

- 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.
- THE TOPOGRAPHY SHOWN IS BASED ON A FIELD RUN SURVEY WITH ONE FOOT CONTOUR INTERVALS PREPARED BY CONTROL POINT ASSOCIATES TITLED "ALTA/ACSM LAND TITLE SURVEY, CHICK-FIL-A, #10985 JOHN'S HOPKINS ROAD, 5TH ELECTION DISTRICT, HOWARD COUNTY, MARYLAND" DATED 7/21/06.
- HORIZONTAL AND VERTICAL SURVEY CONTROLS:  
  
THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE SYSTEM NAD '83/'91 AS PROJECTED BY HOWARD COUNTY GEODEIC CONTROL STATIONS NO. 41EC AND NO. 41FA. ALL VERTICAL CONTROLS ARE ON NAVD '88. VERTICAL CONTROLS ON THE DRAWINGS ARE BASED ON "HOPKINS 1966" ELEVATION 430.38 AND ELEVATION 407.60.
- 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 TO 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 (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. 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.
- 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) 410-885-1400  
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 MAINS OR HOUSE CONNECTIONS. THE APPROVAL OF THESE DRAWINGS WILL CONSTITUTE COMPLIANCE WITH DPW REQUIREMENTS PER SECTION 18.114(A) OF THE HOWARD COUNTY CODE.

**WATER NOTES**

- 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 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.



| QUANTITIES        |                      |            |                  |                         |
|-------------------|----------------------|------------|------------------|-------------------------|
| ITEMS             | QUANTITIES ESTIMATED | AS-BUILT   |                  |                         |
|                   |                      | QUANTITIES | TYPE             | MANUFACTURER / SUPPLIER |
| 6" WATER          | 110.75 LF            | 110'       | CL54 DIP         | ATLANTIC STATES         |
| 8" WATER          | 181.90 LF            | 180'       | "                | "                       |
| FIRE HYDRANTS     | 1 EA                 | 1          | A423             | MUELLER                 |
| 6" VALVE          | 4 EA                 | 4          | 6" MS GATE VALVE | "                       |
| 8" VALVE          | 1 EA                 | 1          | 8" " "           | "                       |
| 8 x 6" TEE        | 2 EA                 | 1          | 8" MS            | TYLER UNION             |
| 8" 1/8 BEND       | 1 EA                 | 1          | "                | "                       |
| 8" 1/16 BEND      | 1 EA                 | 1          | "                | "                       |
| 6" TEE            | 1 EA                 | 2          | 6 x 6            | "                       |
| CAP & BUTTRESS    | 1 EA                 | 1          | 6" MS            | "                       |
| 8" x 6" REDUCER   | 1 EA                 | 1          | 8" MS CL53       | "                       |
| 8" TAPPING SLEEVE | 1 EA                 | 1          | 5/8" S S         | SMITH BLAIR             |
| 1" CORP STOP      | 1 EA                 | 1          | "                | FORD                    |
| 3/4" WATER METER  | 1 EA                 | 1          | "                | "                       |

NAME OF UTILITY CONTRACTOR : GRADELINE CONST. CO. INC.

Sediment control measures for this contract will be implemented in accordance with Section 219 of the Specifications and as shown on SDP-07-033

REVIEW FOR HOWARD SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

*Jim M... 5/15/07*  
NATURAL RESOURCES CONSERVATION SERVICE DATE


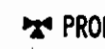
*John P... 5/15/07*  
THIS PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT. HOWARD SOIL CONSERVATION DISTRICT DATE

**OWNER**  
HOPKINS STATION GENERAL PARTNERSHIP  
C/O BRANTLY DEVELOPMENT GROUP  
9835 COLUMBIA  
100 PARKWAY, SUITE P  
COLUMBIA, MARYLAND 21045  
PHONE: (410) 730-0810

**DEVELOPER**  
CHICK-FIL-A  
5200 BUFFINGTON ROAD  
ATLANTA, GA 30349-2998  
C/O SCOTT PATMAN  
PHONE: (404) 684-8660

W & S Code County Use  
Water No. E21  
Sewer No. 789000  
Test Gradient: 700  
Zone: 550

**VICINITY MAP**  
SCALE: 1"=600'

**LEGEND**  
 EXISTING FIRE HYDRANT  
 PROPOSED FIRE HYDRANT


**TYPE OF BUILDINGS:**  
COMMERCIAL  
DRAINAGE AREA: PATUXENT  
TREATMENT PLANT: PATUXENT WWTP  
NUMBER OF BUILDABLE LOTS: 1 (2 PROP. BLDGS.)  
NUMBER OF NON-BUILDABLE LOTS: 0  
NUMBER OF W.H.C.: 2 (PROPOSED)  
NUMBER OF S.H.C.: 2 (PROPOSED)

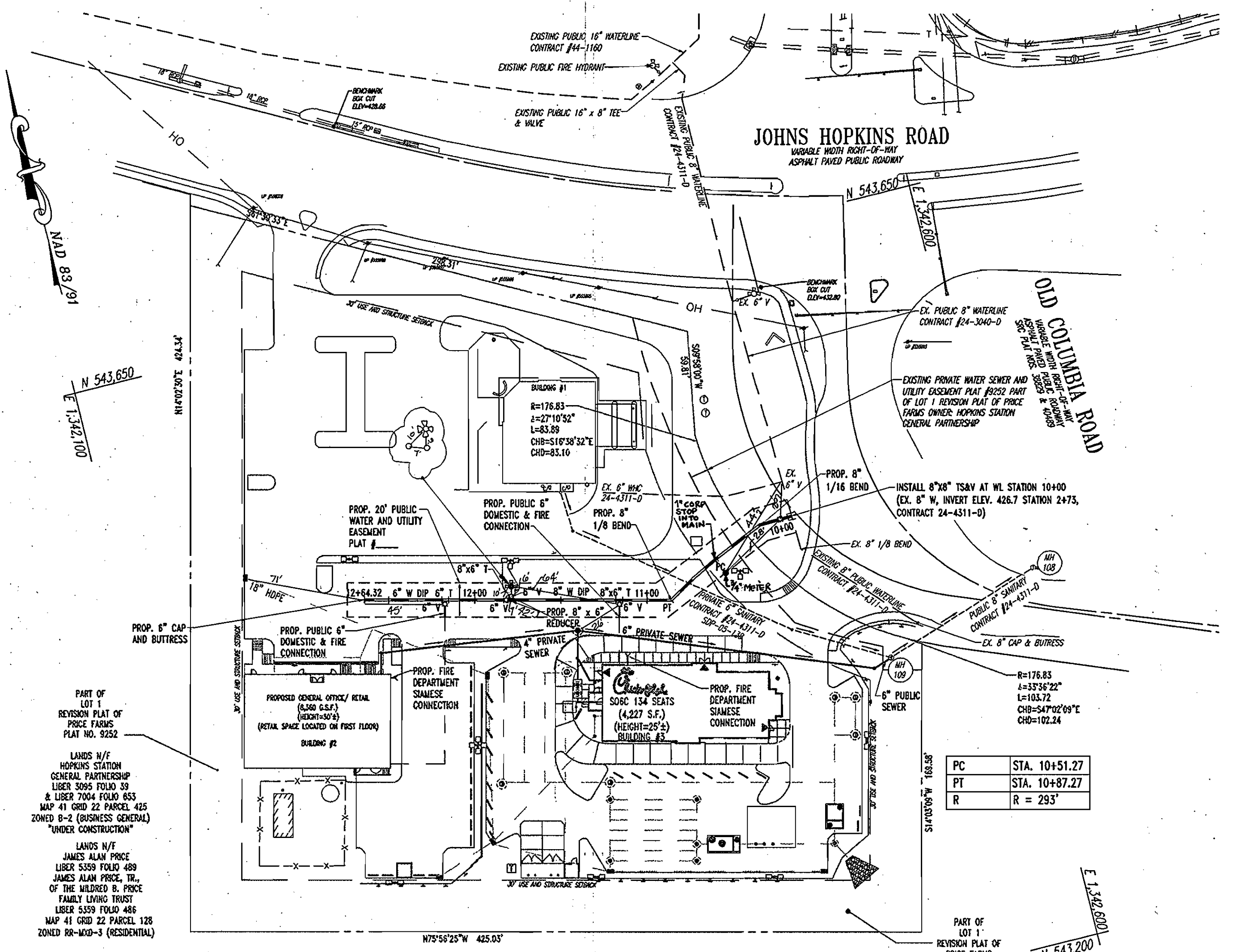


THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPROPRIATE.

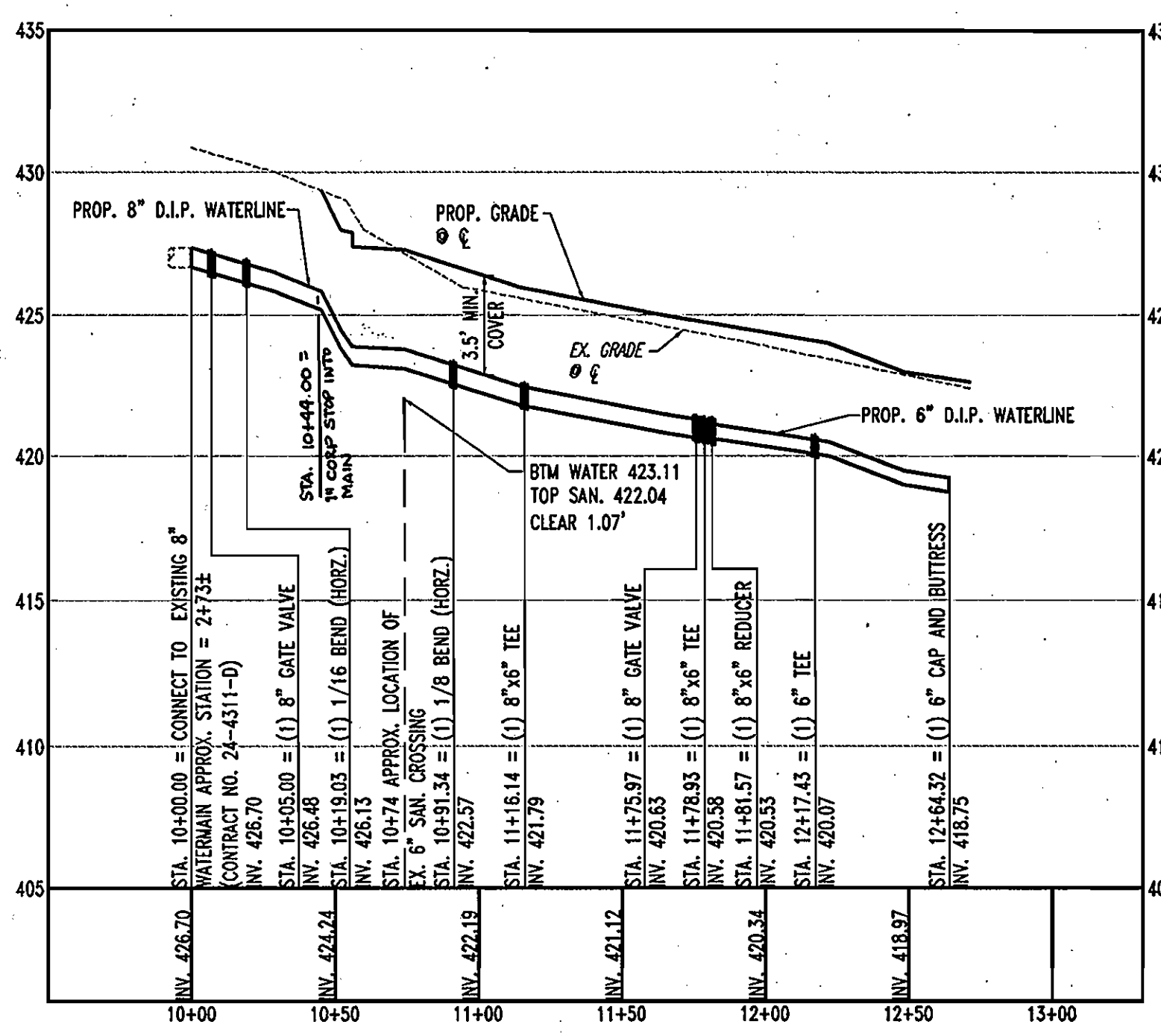
THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.



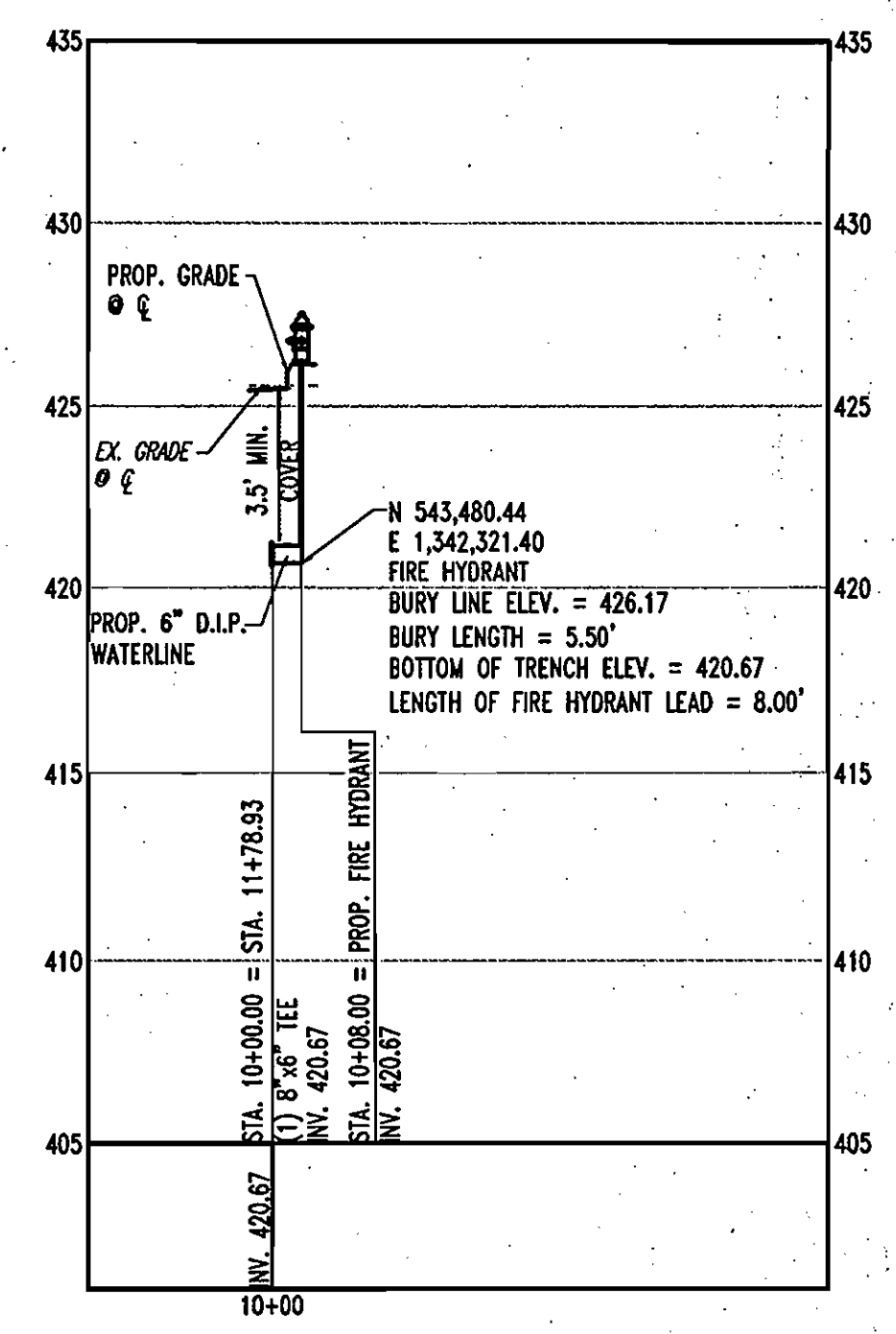
|  |   |   |  |   |   |                                |
|--|---|---|--|---|---|--------------------------------|
| DEPARTMENT OF PUBLIC WORKS<br>HOWARD COUNTY, MARYLAND<br><br><i>Matthew T. Allen</i><br>CHIEF, BUREAU OF UTILITIES DATE 5-3-07 | DEPARTMENT OF PLANNING & ZONING<br>HOWARD COUNTY, MARYLAND<br><br><i>Matthew T. Allen</i><br>CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE 5/17/07 |  <p><b>BOHLER ENGINEERING</b><br/>                 * PROFESSIONAL ENGINEERING SERVICES *<br/>                 * 810 GLENEAGLES COURT, SUITE 301, TOWSON, MARYLAND, 21286 *<br/>                 * (410) 521-7900 FAX: (410) 521-7997   MD066062600000 *</p> | DES: JAD<br>DRN: RLB<br>CHK: JJU<br>DATE: 2/12/07<br><br>REV. DATE DESCRIPTION BY<br>1 2/21/08 ADDED 1" IRRIGATION & 3/4" METERS TO PUBLIC WATER JD<br>2 5/17/07 AS-BUILT DATA ADDED KCI | TITLE SHEET<br>PARCEL NO. 425<br>600' SCALE MAP NO. 41 BLOCK NO. 22 | GENERAL OFFICE/RETAIL & CHICK-FIL-A<br>JOHN'S HOPKINS ROAD & OLD COLUMBIA ROAD<br>(HOPKINS STATION)<br>PARCEL 425<br>5th ELECTION DISTRICT<br>HOWARD COUNTY, MARYLAND<br>CONTRACT 44-4469-D | SCALE AS SHOWN<br>SHEET 1 OF 2 |
|--|---|---|--|---|---|--------------------------------|



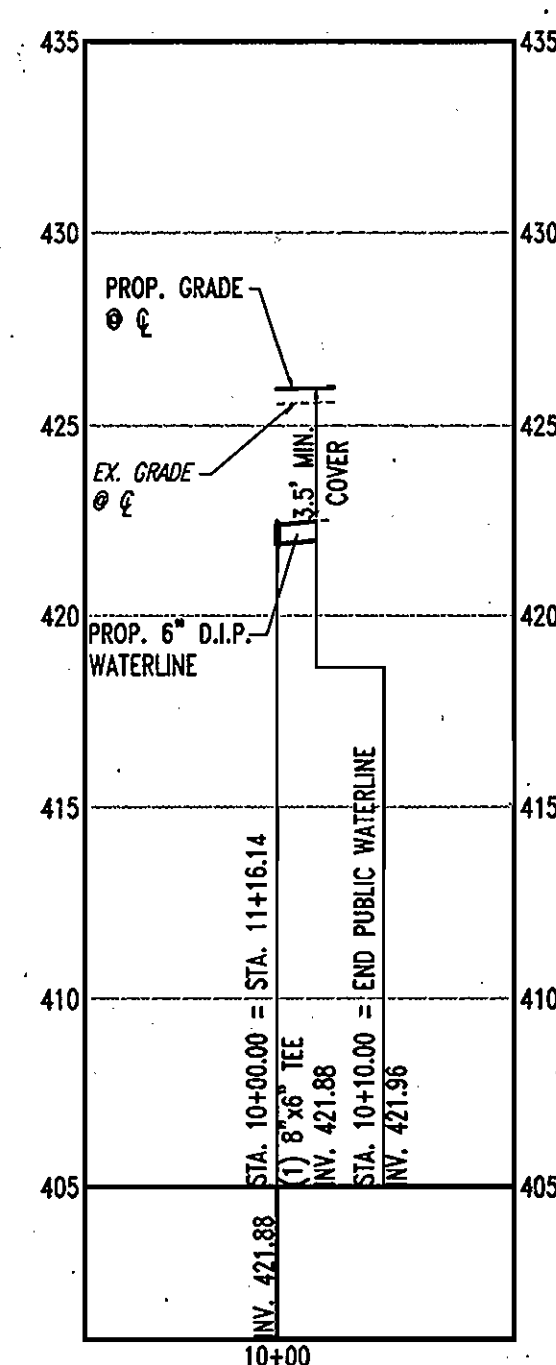
**PLAN VIEW**  
SCALE: 1"=50'



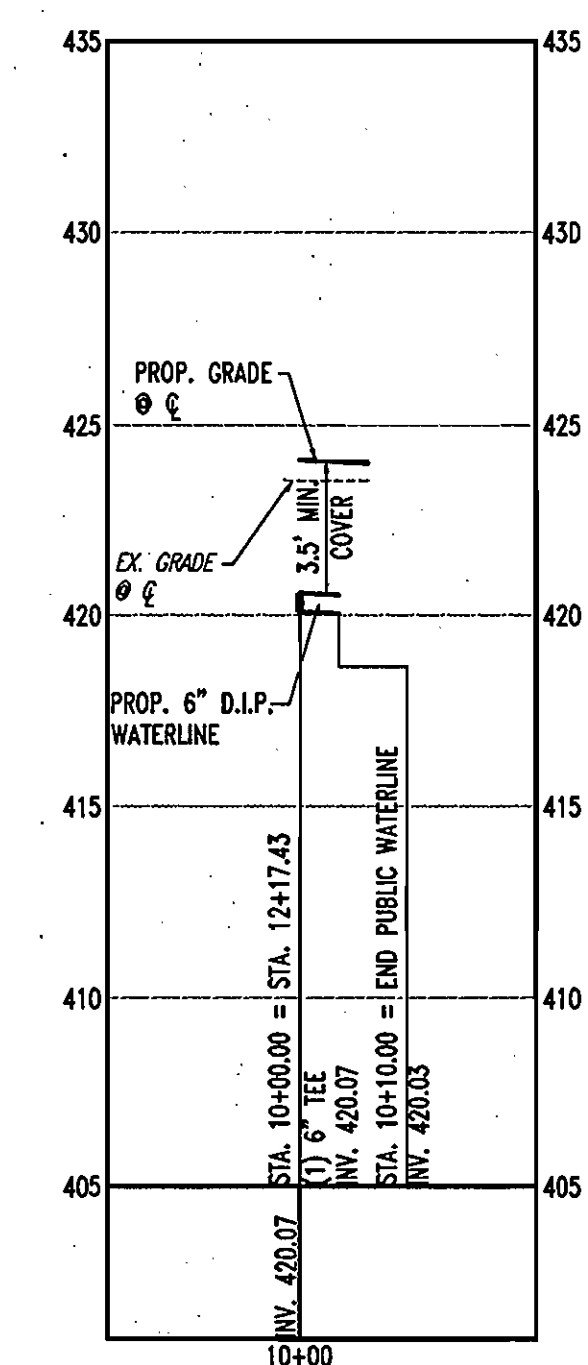
**PUBLIC WATERLINE PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



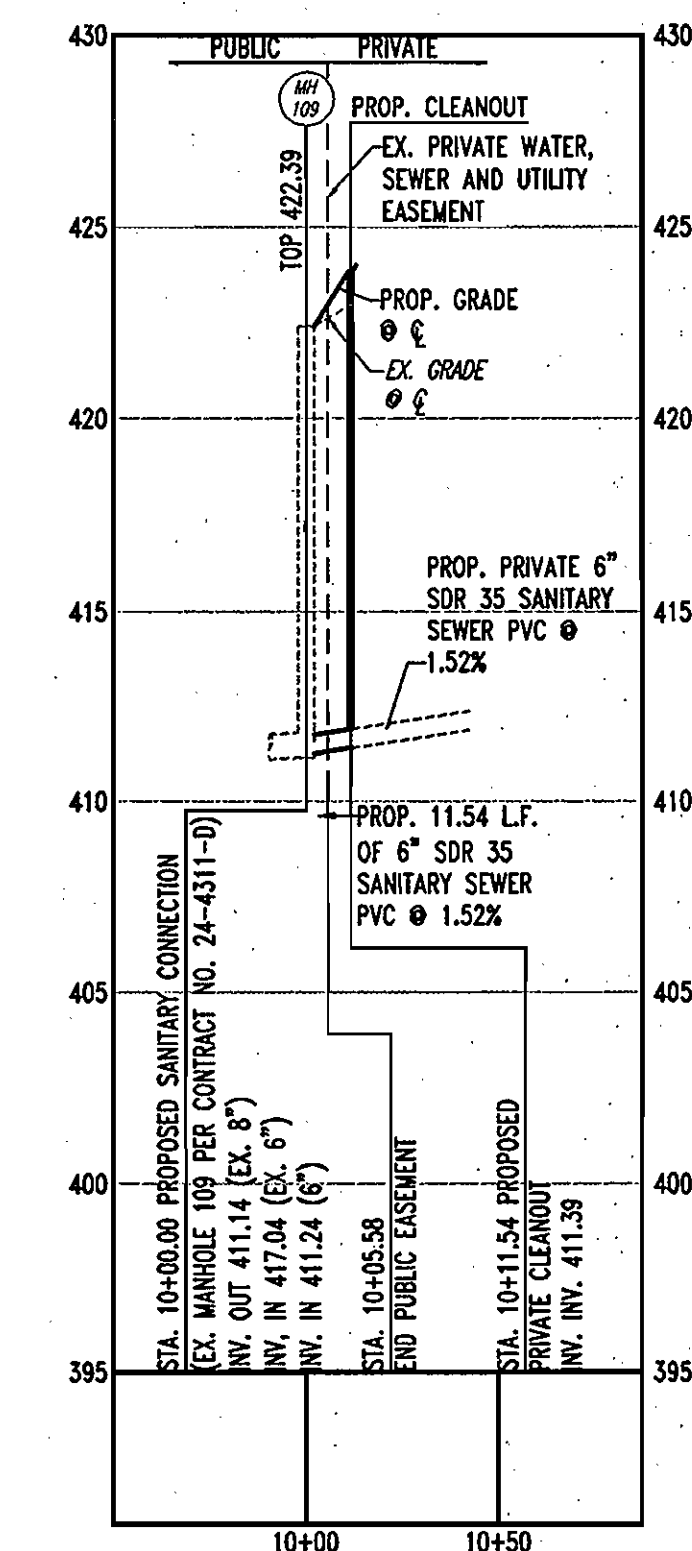
**FIRE HYDRANT PROFILE @ PUBLIC WATERLINE PROFILE STATION 11+78.93**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



**6" WATERLINE PROFILE @ PUBLIC WATERLINE PROFILE STATION 11+16.14**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



**6" WATERLINE PROFILE @ PUBLIC WATERLINE PROFILE STATION 12+17.43**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'



**PROPOSED SANITARY SEWER PROFILE**  
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

**GENERAL NOTE TO CONTRACTOR:**  
GENERAL CONTRACTOR TO PROVIDE TEST PIT TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE 8" PUBLIC WATER LINES AT THE TIE IN CONNECTION AND THE 6" PRIVATE SEWER HOUSE CONNECTION AT THE CROSSING. GENERAL CONTRACTOR TO CONTACT BOHLER ENGINEERING, P.C. IMMEDIATELY WITH ANY DISCREPANCIES. BOHLER ENGINEERING, P.C. SHALL REMAIN HARMLESS IN THE EVENT OF AN IMPROPER CONNECTION TO EXISTING UTILITIES. THE CONTRACTOR TO CLOSE UPSTREAM VALVE FOR ALL NEW WATER MAIN CONNECTIONS.



BEFORE YOU DIG CALL 1-800-291-7777  
PROTECT YOURSELF, GIVE TWO WORKING DAYS NOTICE.  
THIS DRAWING DOES NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THEREOF APPLICABLE.  
THE CONTRACTOR TO CALL MISS UTILITY TO HAVE ALL EXISTING UTILITIES MARKED 48 HOURS PRIOR TO ANY CONSTRUCTION.

FOR REVISION 1 ONLY

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
CHIEF, BUREAU OF UTILITIES  
DATE: 5-3-07

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
CHIEF, DEVELOPMENT ENGINEERING DIVISION  
DATE: 5/12/07

**BOHLER ENGINEERING**  
PROFESSIONAL ENGINEERING SERVICES  
810 GLENEAGLES COURT, SUITE 300, TOWSON, MARYLAND, 21286  
(410) 821-7940 FAX: (410) 821-7957 MD0666260000

MATTHEW T. ALLEN  
DATE: 2/12/07

| REV. | DATE    | DESCRIPTION                                       | BY   |
|------|---------|---|------|
| 1    | 2/21/08 | ADDED 1" IRRIGATION & 3/4" METERS TO PUBLIC WATER | J.D. |

**PUBLIC WATER PLAN AND PROFILES**  
PARCEL NO. 425  
600' SCALE MAP NO. 41 BLOCK NO. 22

GENERAL OFFICE/RETAIL & CHICK-FIL-A  
JOHN'S HOPKINS ROAD & OLD COLUMBIA ROAD  
(HOPKINS STATION)  
PARCEL 425  
5th ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND  
CONTRACT 44-4469-D  
SCALE AS SHOWN  
SHEET 2 OF 2