		QUANTITI	E5		
FTeM	ESTIMATED	A5-BUILT			
ITEM		QUANTITIES	TYPE	Supplier	
0" WATER	344 L.F.	347 L.F.	DIP CLASS 52	GRIFFIN	
6" WATER	95 L.F.	83 L.F.	DIPCLASS 52	GRIFFIN	
4" WATER	25 L.F.	25 L.F.	DIPCLASS52	GRIFFIN	
1 1/2" WATER	35 L.F.	35 L.F.	COPPER	READING	
1" WATER	35 L.F.	34 L.F.	COPPER	READING	
0" x 6" Tee	2 EACH	2 EACH	DIPCLASS52	U.S. PIPE	
4" X 4" TEE	2 EACH	2 EACH	DIPCLASS 52	U.S. PIPE	
6" VALVE	3 EACH	2 EACH	GATE	MUELLER CO	
4" VALVE	3 EACH	3 EACH	GATE	MUELLER CO	
8" X 6" REDUCER	1 EACH	IEACH	DIP CLASS 52	U.S. PIPE	
6" X 4" REDUCER	2 EACH	2EACH	DIPCLASS 52	U.S. PIPE	
4"-90" ELBOW	2 EACH	2 EACH	DIPCLASS 52	U.S. PIPE	
0" PLUG & BUTTRESS	1 EACH	I EACH	DIPCLASS 52	U.S. PIPE	
6" PLUG & BUTTRESS	1 EACH	IEACH	DIPCLASS 52	U.S. PIPE	
FIRE HYDRANT	1 EACH	1 EACH		MUELLER C	
OUTSIDE METER VAULT & BYPASS ASSEMBLY	1 EACH		_		
0" SEWER	363 L.F.	363 L.F.	PVC SDR 35	JM MF'G.	
6" Sewer	20 L.F.	20 L.F.	PVC SDR 35	JM MF'G.	
4" SEWER	35 L.F.	35 L.F.	PVC SDR 35	JM MF'G.	
Manholes	2 EACH	2 EACH	PRECAST CONC.	ATLANTIC	
			ED CONSTRU UST 31,200		

DEVELOPER'S CERTIFICATION I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTIO WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS

Paulki Karbel; FOR:

07-12-05

ENGINEER'S CERTIFICATION

" I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL

GP05-17

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION

IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL & STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS AND AS SHOWN ON SOP04-119 AND

Poul W. Koidel; FOR: Rouwar Enterprisas, LLC

HOWARD COUNTY, MARYLAND

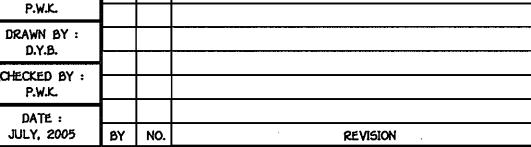
DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

ELLICOTT CITY, MARYLAND 21042







## WATER & SEWER MAINS TITLE SHEET

F.C.C. WORK ORDER NO. 40375

## IRON BRIDGE WINE COMPANY WATER AND SEWER MAIN EXTENSIONS

CONTRACT NO. 24-4123-D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

GENERAL NOTES

1. 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. 2. ALL HORIZONTAL CONTROLS ARE BASED ON MARYLAND STATE COORDINATES, NAD 63/91.

3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 80. 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

5. 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 BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF THE 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

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 (LATEST EDITION). THE CONTRACTOR SHALL

HAVE A COPY OF VOLUME IV ON THE JOB SITE. 7. 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 which test pits have not been dug shall be located by the

CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE. 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

BGE (CONTRACTOR SERVICES) . . . . . 410-050-4620 BGE (UNDERGROUND DAMAGE CONTROL) . . . . 410-707-9060 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

9. 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.

10. 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 THE CONSTRUCTION OF THE MAIN. 11. 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 10.114(a) OF THE HOWARD

STARSPLIT

PLAN REFERENCE NUMBERS:

5DP04-119

1. ALL WATER MAINS SHALL BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED. 2. TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF COVER UNLESS OTHERWISE NOTED.

3. VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES. 4. ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS UNLESS OTHERWISE

5. 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. 6. THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.

1. ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.

2. ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED. 3. FORCE MAINS SHALL BE D.I.P. ONLY.

4. MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY. 5. MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVER, STANDARD DETAIL G5.52. WHERE WATERTIGHT MANHOLE FRAMES AND COVERS ARE USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS

OTHERWISE NOTED ON THE DRAWINGS. 6. HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT THE CELLAR CANNOT BE SERVED.

## CONTRACT No. 24-4123-D IRON BRIDGE WINE COMPANY

IRON BRIDGE WINE COMPANY

MARYLAND ROUTE

MOOR

VICINITY MAP

WATER & SEWER

MAIN EXTENSIONS CONTRACT NO. 24-4123-D

BLACKSMITH

WAY / ENGYMION LANE OF

CLARKSVILLE

EVANGELINE"

WATER & SEWER CODE

SEWER NO.:

WATER ZONE: \_

DRAINAGE AREA: \_\_\_\_\_

FOR COUNTY USE ONLY

NUMBER OF LOTS & PARCELS: 2 BUILDABLE

YPE OF BUILDING: \_\_\_\_\_\_COMMERU

NO. OF WATER HOUSE CONNECTIONS:

NO. OF SEWER HOUSE CONNECTIONS: \_

630

TREATMENT PLANT: LITTLE PATUXENT WATER RECLAMATION PLANT

LITTLE PATUXENT

WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

> NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 1 OF 7, SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF

DATE: AUGUST 31,2005

PLANNING AND ZONING, ON NOVEMBER 01, 2004.

CONTRACT NO. 24-4123-D BRON BREDGE WINE COMPANY WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.

DATE FILE NAME: FINAL WATER AND SEWER PLAN SH

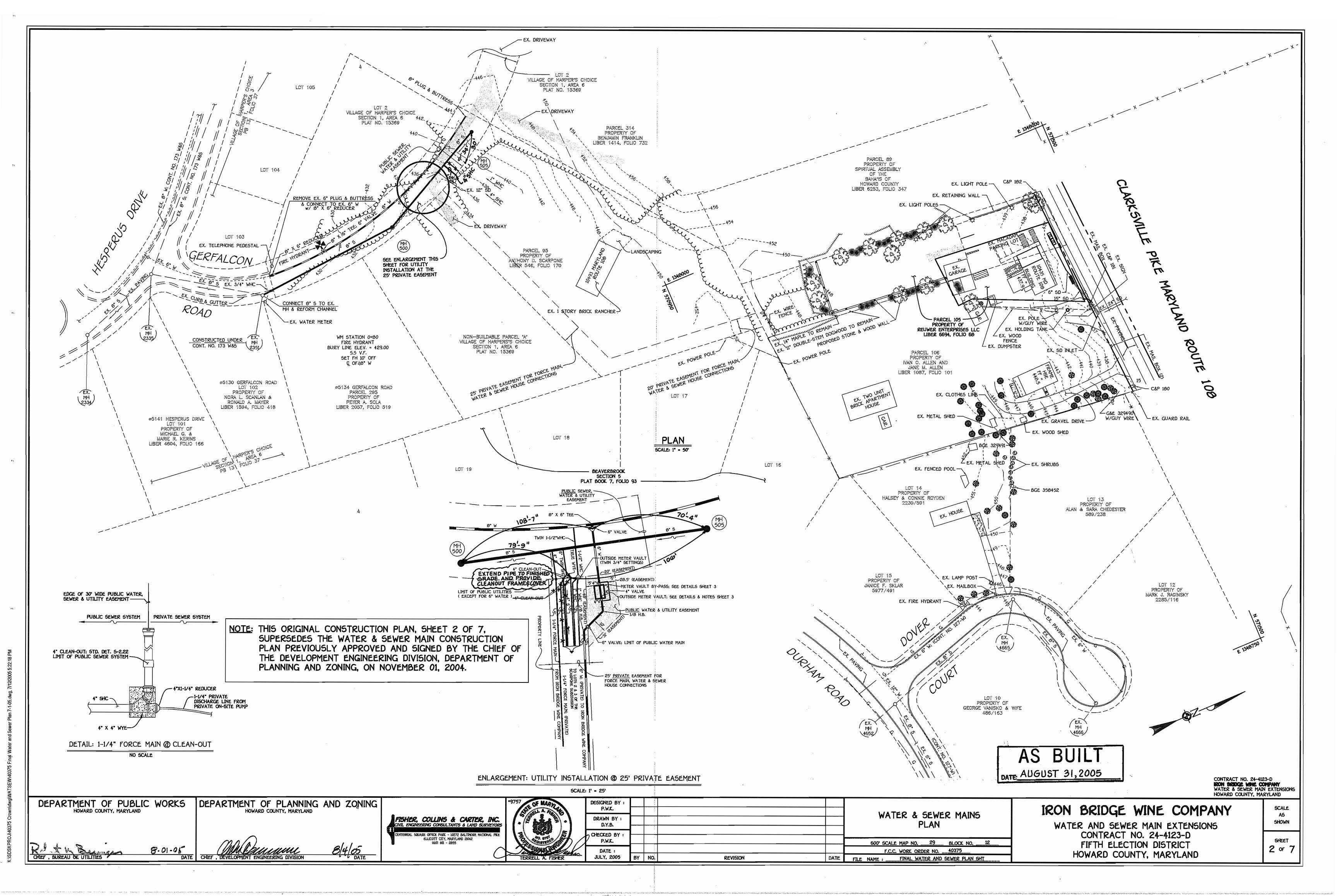
600' SCALE MAP NO. 29 BLOCK NO. 12 & 18

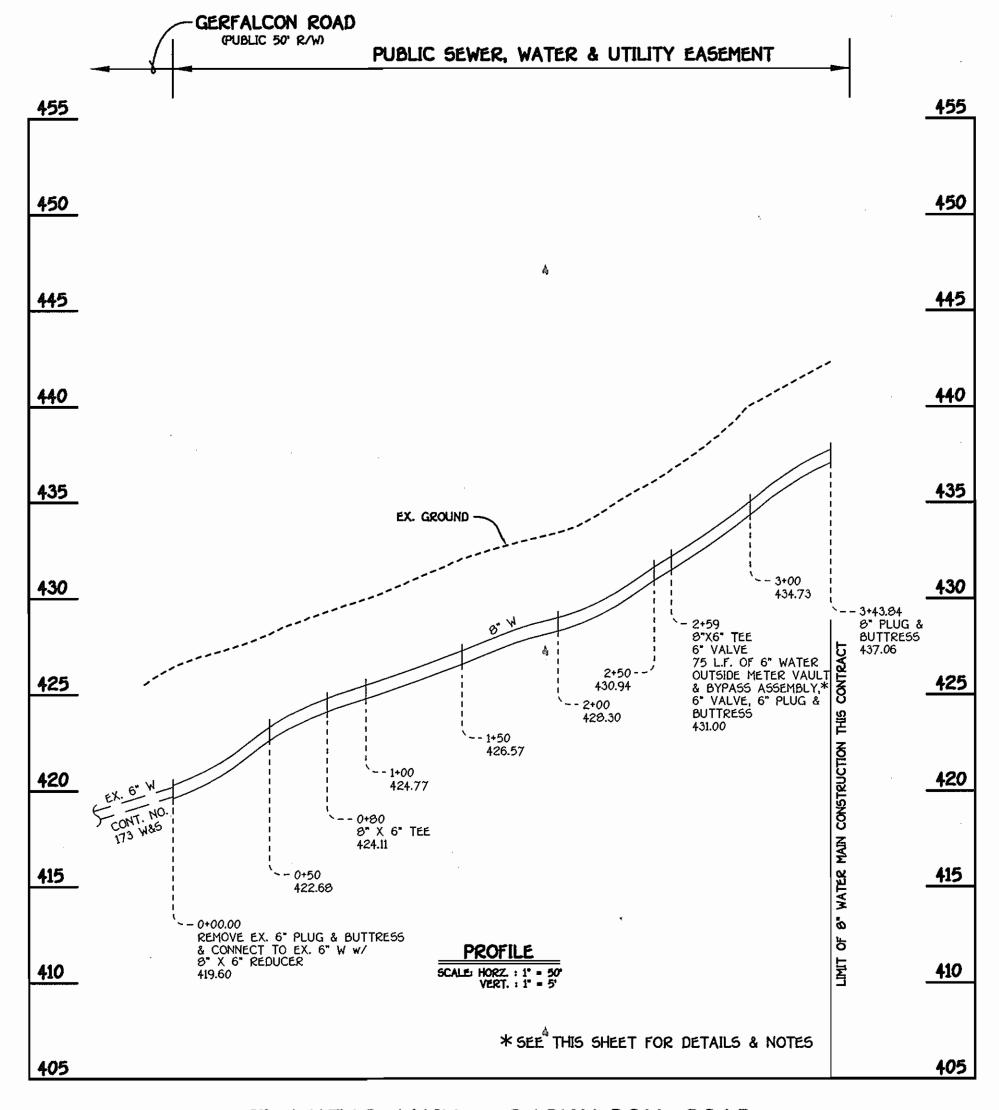
SHEET OF 7

**SCALE** 

A5

SHOWN

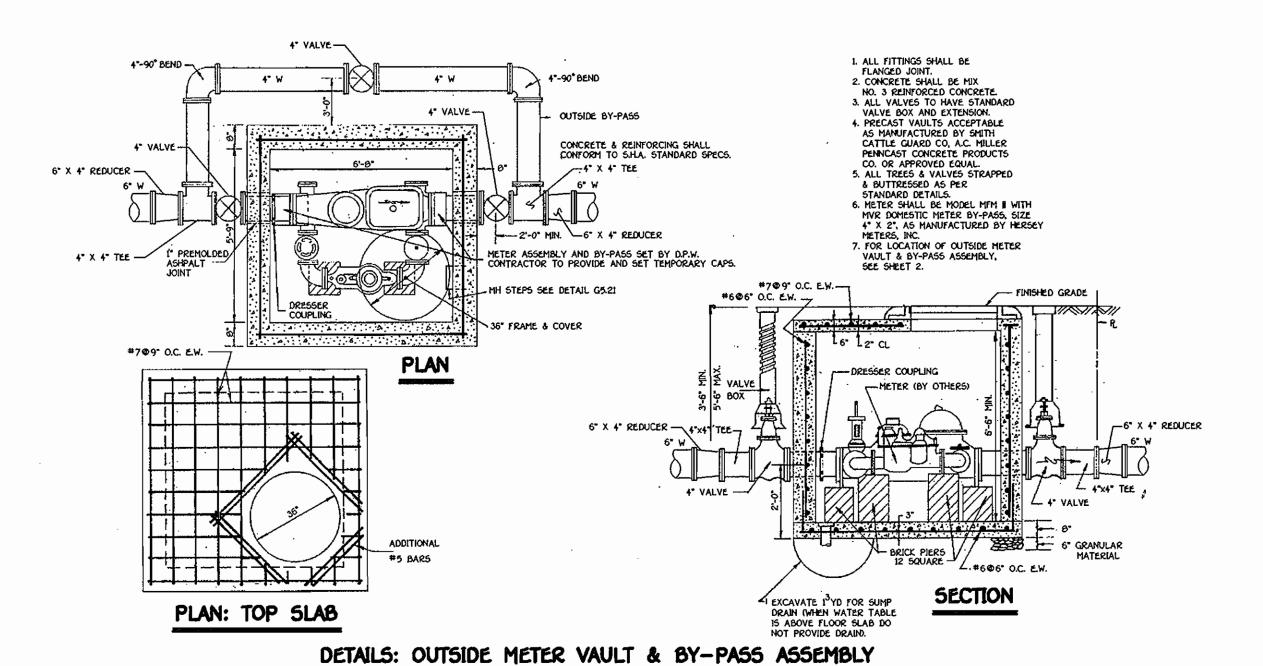




8" WATER MAIN: GERFALCON ROAD

## WATER & SEWER AS-BUILTS

31-0" MH 505 TO LOT I WHC
30' MH 505 TO LOT I WY
2' LOT I WHC TO LOT I WY
21' LOT I WHC TO LOT I SHC
20'-0" LOT I WY TO LOT I SHC
40'-0" LOT I SHC TO MH 505
72' MH 500 TO SCO LOT 2 & 3
77'-0" MH 500 TO WM LOT 3
79'-0" MH 500 TO WM LOT 2
80' MH 500 TO 3 P WM
89'-0" MH 500 TO FIRE HYDRANT
89'-0" MH 500 TO FIRE HYDRANT
89'-0" MH 500 TO FHY
9' FIRE HYDRANT TO FHY



NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 3 OF 7, SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING, ON NOVEMBER 01, 2004.

AS BUILT DATE: AUGUST 31,2005

CONTRACT NO. 24-4123-D FRON BRIDGE WINE COMPANY WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND





Designed by : P.W.K.					
DRAWN BY :					WATER MAIN
D.Y.B.					PROFILE
CHECKED BY : P.W.K.					600' SCALE MAP NO29 BLOCK NO12
DATE :	<u> </u>			<u></u>	F.C.C. WORK ORDER NO. 40375
JULY, 2005	BY	NO.	revision	DATE	FILE NAME : FINAL WATER AND SEWER PLAN SHT

IRON BRIDGE WINE COMPANY

WATER AND SEWER MAIN EXTENSIONS
CONTRACT NO. 24-4123-D
FIFTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND

SHOWN
SHEET
3 OF 7

**SCALE** 

NOTE: SET ALL MH RIMS FLUSH W/ EXISTING GROUND

GERFALCON ROAD 50' PUBLIC WATER, SEWER & UTILITY EASEMENT (EX. PUBLIC 50' R/W) NOTE: SET MANHOLE RIMS FLUSH W/
EX. GROUND; SEE MANHOLE
TABULATION CHART THIS SHEET EX. GROUND -430 425 425 <del>426.76</del> **426.70** 420 420 CONNECT TO
EX. MANHOLE &
REFORM CHANNEL
414.15
413.17 EX. 8" 5 (5W) CONT. NO. 173-W & 5 413.95 PROFILE 5CALE: HORZ : 1" = 50" VERT. : 1" = 5"

8" SEWER MAIN: GERFALCON ROAD

AS BUILT DATE: AUGUST 31,2005 NOTE: THIS ORIGINAL CONSTRUCTION PLAN, SHEET 4 OF 7, SUPERSEDES THE WATER & SEWER MAIN CONSTRUCTION PLAN PREVIOUSLY APPROVED AND SIGNED BY THE CHIEF OF THE DEVELOPMENT ENGINEERING DIVISION, DEPARTMENT OF PLANNING AND ZONING, ON NOVEMBER 01, 2004.

MAP NO. \_\_\_29\_\_\_ BLOCK NO. \_\_\_12

CONTRACT NO. 24-4123-D IRON BRIDGE WINE COMPANY WATER & SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC.

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TERR	ELL A. FISHER	Ma

P.W.K.					SEWER MAIN
DRAWN BY : D.Y.B.					PROFILE
CHECKED BY :					
P.W.K.	<u> </u>				600' SCALE MAP NO29 BLOCK NO
DATE :			·		F.C.C. WORK ORDER NO. 40375
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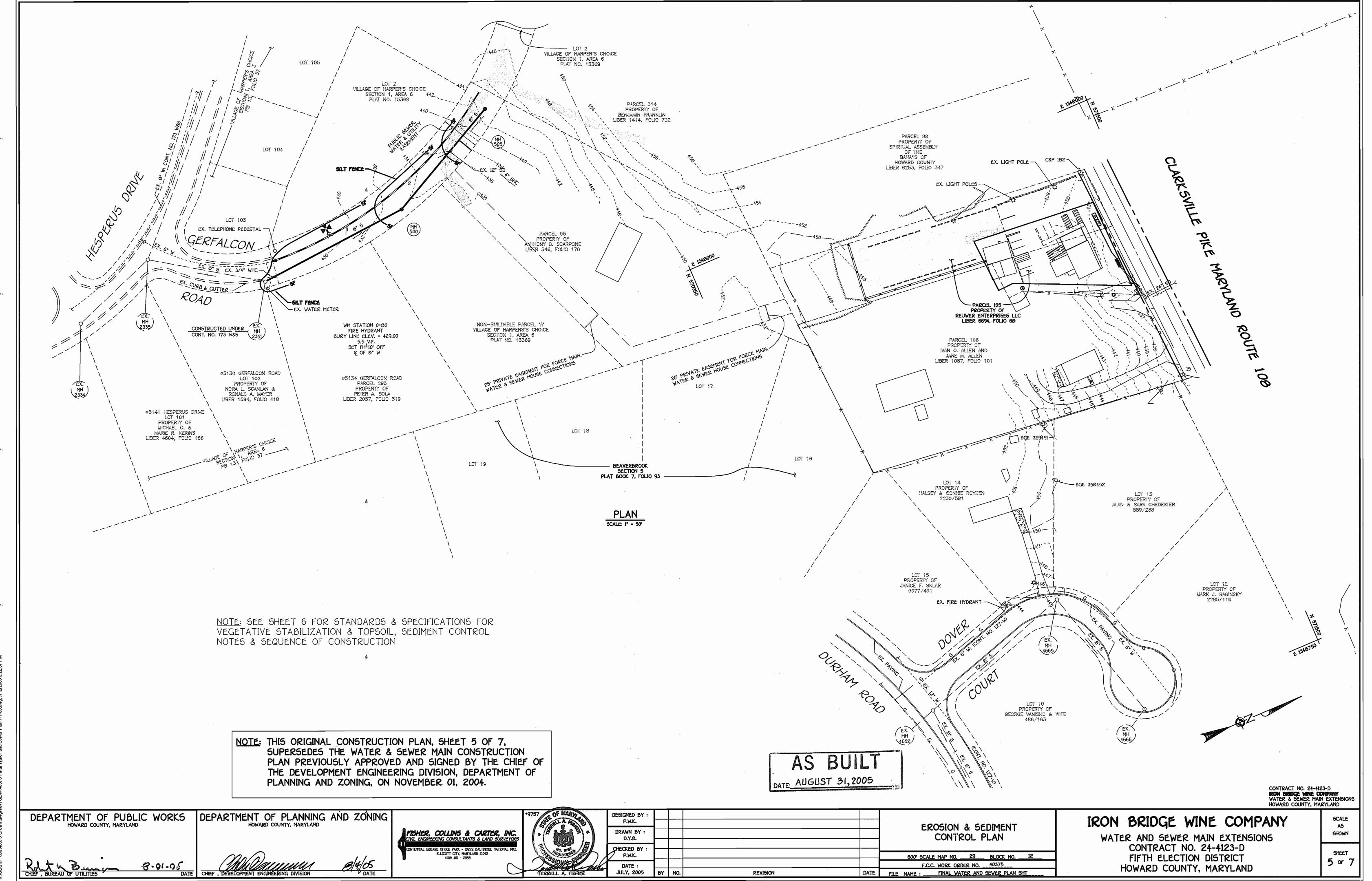
IRON BRIDGE WINE COMPANY

WATER AND SEWER MAIN EXTENSIONS CONTRACT NO. 24-4123-D FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

4 of 7

SCALE

**SHOWN** 



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