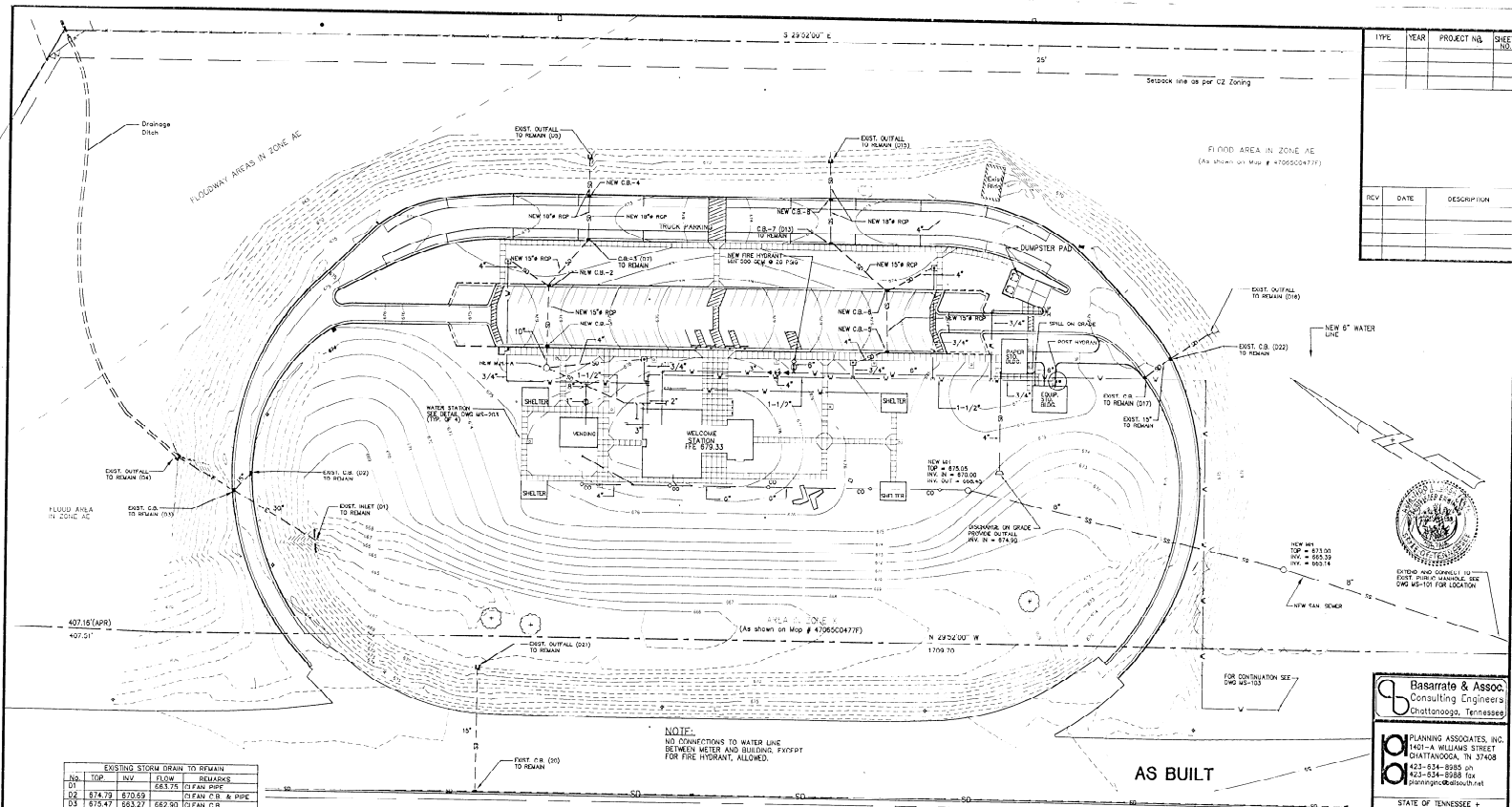




TYPE	YEAR	PROJECT NO.	SHEET NO.
REV	DATE	DESCRIPTION	



Basarrate & Assoc.
Consulting Engineers
Chattanooga, Tennessee

PLANNING ASSOCIATES, INC.
1401-A WILLIAMS STREET
CHATTANOOGA, TN 37408
423-534-8888
planning@basarrate.com

STATE OF TENNESSEE +
IN DEPARTMENT OF TRANSPORTATION

200 # 242/010-02-2003

MELDINE CENTER REPLACEMENT
1-75 HAMILTON COUNTY MELDINE CENTER
CHATTANOOGA, HAMILTON COUNTY, TENNESSEE

PA # 437 MAY 10, 2005

MECHANICAL SITE PLAN

MS-102

NO.	TOP	INV.	FLOW	REMARKS
D1	674.79	670.69	CFAN PIPE	
D2	674.79	670.69	CFAN C.B. & PIPE	
D3	675.47	669.27	CFAN C.B.	
D4	675.47	669.27	CFAN PIPE	
D18	675.47	669.27	CFAN PIPE	
D19	675.47	669.27	CFAN C.B. & PIPE	
D20	675.47	669.27	CFAN C.B. & PIPE	
D21	675.47	669.27	CFAN PIPE	
D22	675.47	669.27	CFAN PIPE	
D23	675.47	669.27	CFAN C.B.	
D24	675.47	669.27	CFAN C.B. & PIPE	

NO.	TOP	INV.	FLOW	REMARKS
D3	672.75	668.01	ADJUST OPENING TO RECEIVE NEW PIPE	
D13	672.84	668.99	CLEAN	
D15	672.84	668.99	ADJUST OPENING TO RECEIVE NEW PIPE	

NO.	TOP	INV.	IN	OUT	TYPE	NO.	TOP	INV.	IN	OUT	TYPE
MH-A	674.25	669.40			C.B. - 5	673.71	670.18	669.97			
C.B.-1	673.81	669.33	669.17		C.B. - 6	672.81	669.35	669.29			
C.B.-2	673.70	669.19	669.03		C.B. - 7 (D13)	672.81	669.35	669.29			
C.B.-X (D7)	672.72	667.91	667.82		C.B. - 8	672.72	668.71	668.51			
C.B.-4	672.71	667.81	667.71								

NOTES:
1. ALL INVERTS ARE 1/2" HIGHER THAN MAINTAIN 0.2 FEET BETWEEN INLET AND VALVE INVERTS
2. INVERTS AT C.B.-1 AND 7 ARE FIXED ADJUST PIPE SLOPES TO MEET EXIST. INVERTS

DATE: 03/06/07
PAE: MELINDA-102
PLOT: 1"=40'

W.F. OGDORNE ET. UX



PRESSURE LOSSES

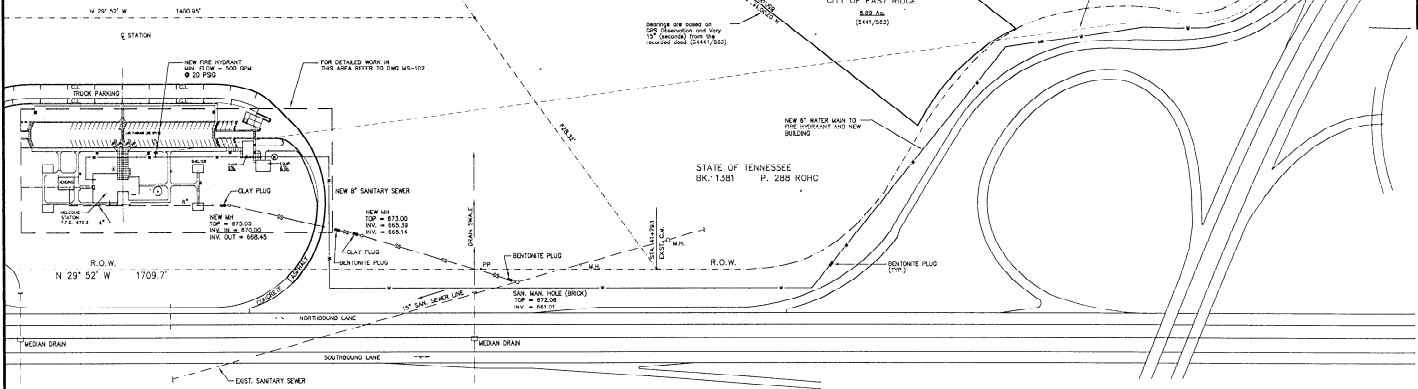
REQUIRED HYDRANT FLOW: 500 GPM @ 20 PSI
 HYDRANT ELEVATION: 918.11
 MATERIAL: DUCTILE IRON PIPE, C-100
 PRESSURE DROPS:
 STREET TO METER: 11.70/0.03/11.70 = 1 PSI
 WATER METER: 20.25 PSI
 METER TO HYDRANT 2/100.0/0.03/100.0 = 31.80 PSI
 STATIC HEAD = (5) PSI
 TOTAL PRESSURE DROP: 54.7 PSI
 AVAILABLE PRESSURE AT HYDRANT: 35.3 PSI

HYDRANT FLOW TEST

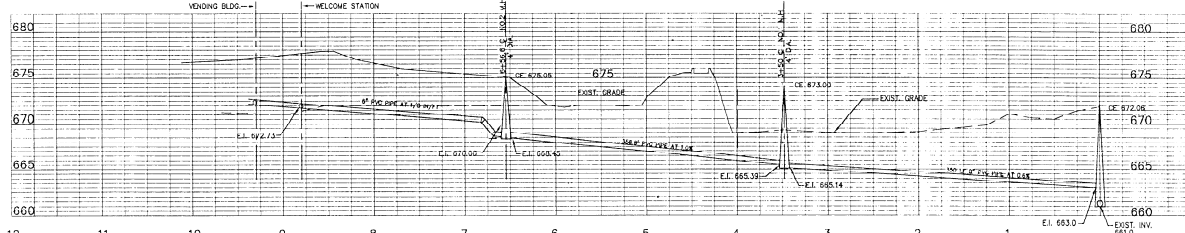
STATIC PRESSURE: 108.0 PSI
 RESIDUAL PRESSURE: 92.0 PSI
 FLOW: 628 GPM
 TESTED BY: TENNESSEE-AMERICAN WATER CO.
 TESTED ON: 08/08/06 - 01:40 PM
 HYDRANT ELEVATION: 630 FT.
 FLOW: 531 GPM

REPLACE EXIST. WATER METER WITH NEW 1" METRIC CONNETT 8" WATER MAIN IN LUGGERS STREET. METER AND TRIPLE CONNECTION FURNISHED AND INSTALLED BY UTILITY COMPANY AT OWNERS EXPENSE. EXIST. METER TO REMAIN DURING CONSTRUCTION.

TYPE	YEAR	PROJECT NO.	SHEET NO.



WATER PIPING SITE PLAN
 SCALE: 1" = 100'



SEWER PROFILE

AS BUILT

DATE: 03/08/07
 FILE: M152415.103
 PLUT: 1"=100'



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STATE OF TENNESSEE
 TN DEPARTMENT OF TRANSPORTATION
 SRC # 242/0015-12-2001

WELCOME CENTER REPLACEMENT
 I-75 HAMILTON COUNTY WELCOME CENTER
 CHATTANOOGA, HAMILTON COUNTY, TENNESSEE

PAI # 437 MAY 10, 2005
 WATER PIPING PLAN/REPAIR PROFILE
 MS 103