

DATE :

NOVEMBER, 200

11-21-02

REVISE SEWER MAIN ALIGNMENT; REVISE QUANTITIES

REVISION

F.C.C. WORK ORDER NO. \_\_\_40359\_

DATE FILE NAME : 40359 FINAL WATER & SEWER MAIN PLAN SHT 1

1 of 2

HOWARD COUNTY, MARYLAND

SCALE

SHOWN

SHEET

W	ATER MAIN TABULAT	ION CHART	
W.M. STATION	APPURTENANCE	NORTHING	EASTING
	6" WATER MAIN		
0+00.00	0"X0" TAPPING SLEEVE	586819.35	1357614.59
0+03.00	0" TAPPING VALVE	596916.36	1357614.32
0+35.93	0"X6" FIRE HYDRANT TEE	586783.57	1357611.33
0+30.93	9"X 6" REDUCER	586780.59	1357611.05
0+41.93	G" VALVE	586777.60	1357610.70
0+45.93	G" PLUG & BUTTRESS	506773.61	1357610.42

20' PUBLIC WATER & UTILITY EASEMENT

FIRST FLOOR ELEV. = 300.00

- BASEMENT ELEV. = 370.50

375

365

360

355

350

- PROPOSED GROUP

CARE FACILITY

PARCEL 77

6" PLUG & BUTTRESS;

PROFILE

5CALE: HORZ. : 1" = 50" VERT. : 1" = 5"

LIMIT OF 4" WM CONSTRUCTION THIS

CONTRACT

371.35

8"XG" REDUCER

- 0+41.93

- 0+38.93

8" WATER MAIN

6" VALVE 370.87

SEE THIS SHEET FOR WATER MAIN TABULATION CHART

PROPOSED GRADE -(SDP 02-113)

U.S. ROUTE 40

(EX. PUBLIC 150' WIDE R/W)

EX. 0" W (CONT. NO. 131 W); 360.00 - \

0+00 ----

8"X8" TAPPING

SLEEVE & VALVE

**6"** TAPPING

0+35.93 - -

370.00

0"X6" FIRE

HYDRANT TEE

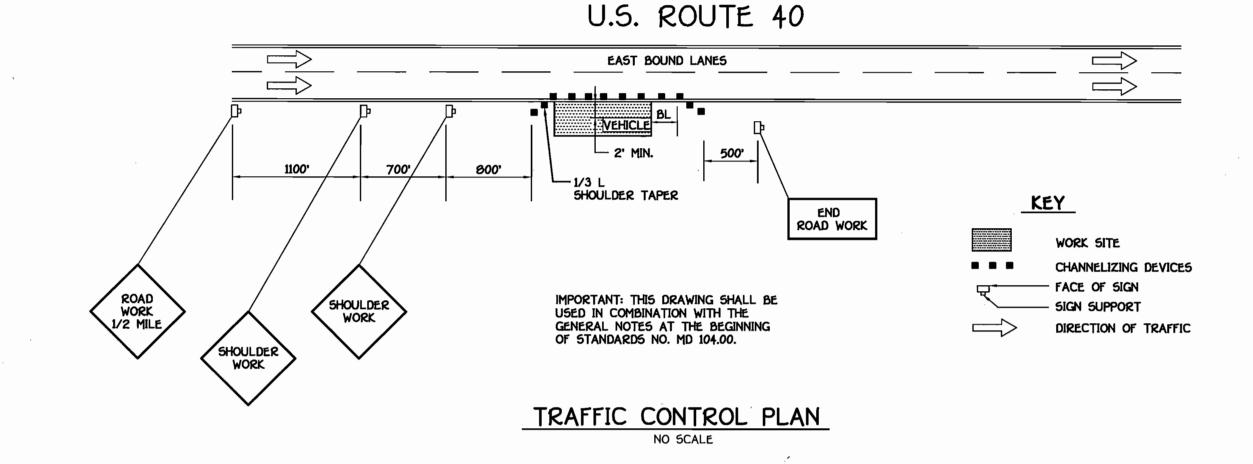
368.80

CONNECT TO

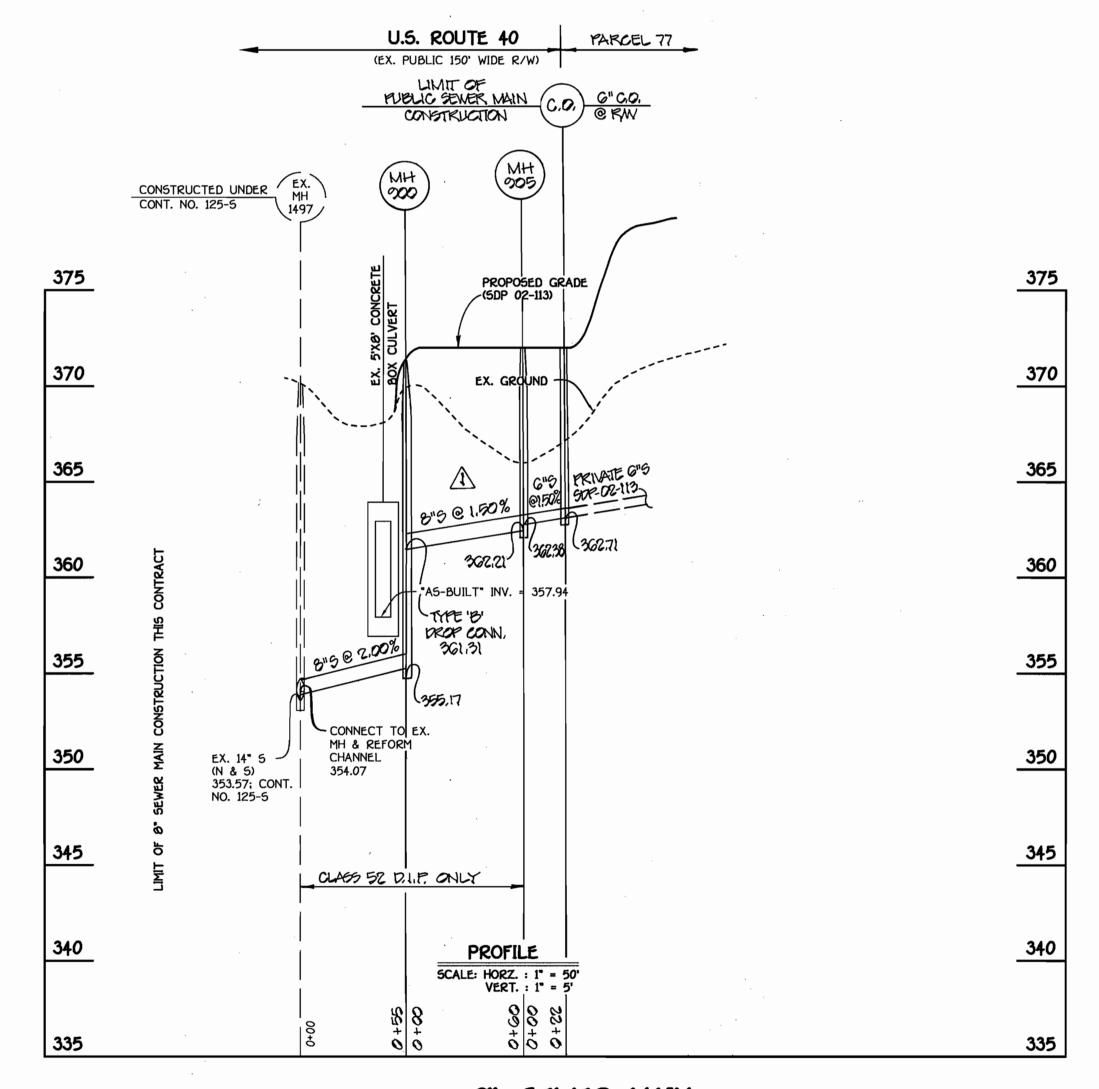
EX. 8" W W/

MA	NHOLE TAE	BULATION (	CHART
NO.	NORTHING	EASTING	RIM ELEVATION *
900	586,819.61	1,357,457.10	370,00
<b>90</b> 5	586,814,27	1,357,510,86	372,00

\* SET MH RIMS FLUSH W/PROPOSED FINISHED GRADE



NOTE: SET RIM OF MANHOLE NO. 900 FLUSH W/ PROPOSED GROUND; SEE MANHOLE TABULATION CHART THIS SHEET.



8" SEWER MAIN

## MAINTENANCE OF TRAFFIC: SPECIAL PROVISIONS

## GENERAL

- 1. THE PURPOSE OF THESE SPECIAL PROVISIONS IS TO ESTABLISH THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE OF TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE
- 2. PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY OF E TRAVELLING PUBLIC AND THAT OF HIGHWAY WORKERS AND HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC
- CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY. 3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT AND WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
- 4. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE MANUAL OF THE UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1982;), INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH. 5. THE CONTRACTOR SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS ESTABLISHED IN
- THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULE CHANGE. THE CONTRACTOR SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE.
- 6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE AND HAVE BEEN CHECKED FOR APPROVED 7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS
- AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED. 8. THE CONTRACTOR SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY,
- OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS. 9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 014 OF THE SPECIFICATIONS. FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS
- RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE. 10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE
- TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE. 11. THROUGHOUT THE PERIOD(S) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY
- IMPLEMENTING THE APPROVED TCP. 12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE
- 13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTE. NO TRAVEL LANE(S) OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.

CONTRACT NO. 24-4012-D ARCADIA SQUARE WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND HOWARD COUNTY, MARYLAND 12/13/0-11.21.02

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS 5quare office park - 10272 Baltimore national pik



DESIGNED BY :					
P.W.K.					WATER AND SEWER MAINS
DRAWN BY :					PROFILES & TRAFFIC PLAN
M.D.T.					1 7001 1220 0 1 707 (1 1 1 0 1 2 7 1 1
CHECKED BY :	FUL	Ŕ	REVISE WATER SERVICE CONNECTION; 4"TO G"	4/29/03	24 01 02 10 3
	200	<u>ب</u>		1 habs	600' SCALE MAP NO24 BLOCK NO3
DATE:	FCC	$\sqrt{1}$	REVISE SEWER MAIN PROFILE PER REVISED ALIGNMENT	4/22/03	F.C.C. WORK ORDER NO. <u>40359</u>
NOVEMBER, 2002	BY	NO.	REVISION	DATE	FILE NAME : 40359 FINAL WATER & SEWER MAIN PROFILES SHT 2

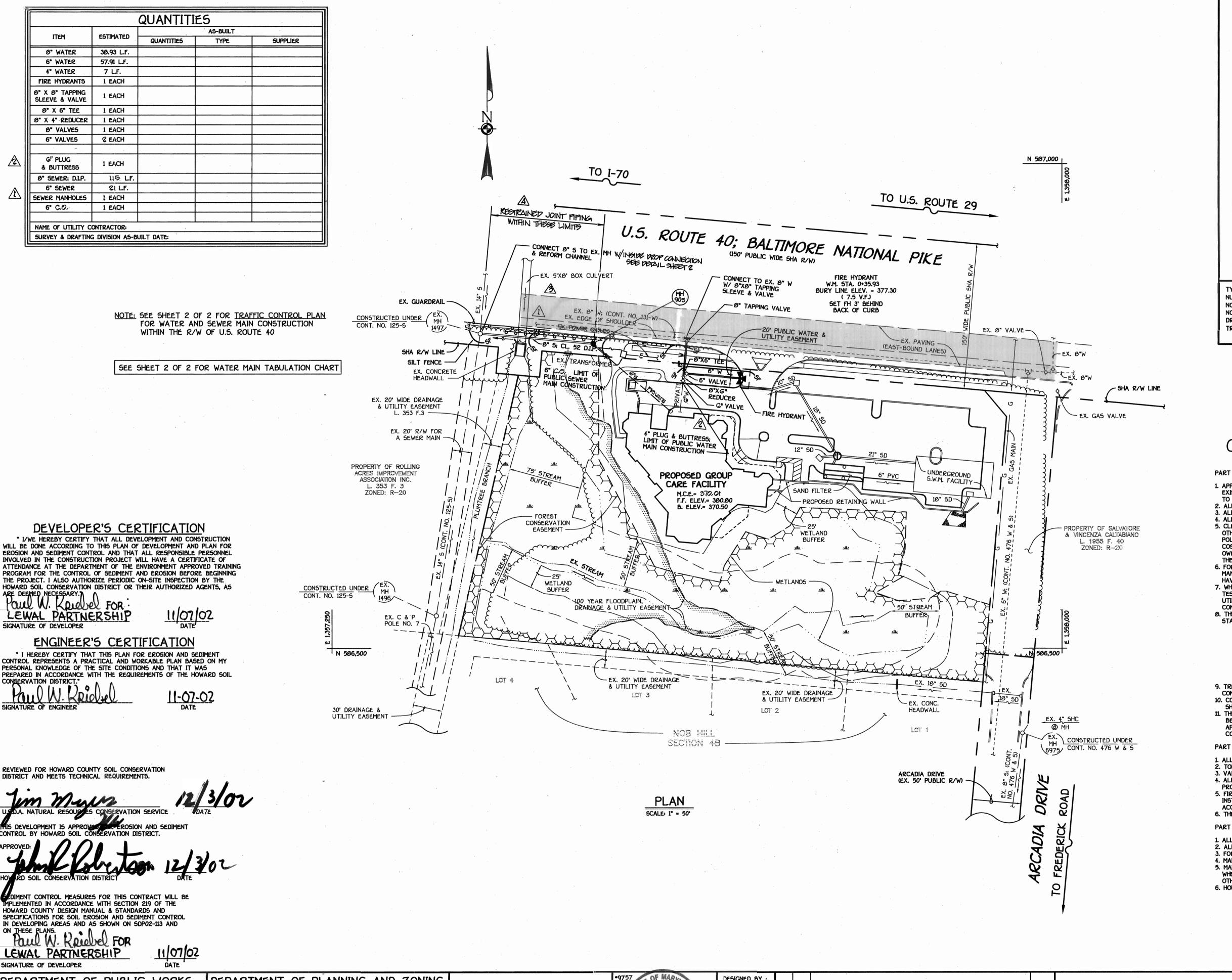
ARCADIA SQUARE

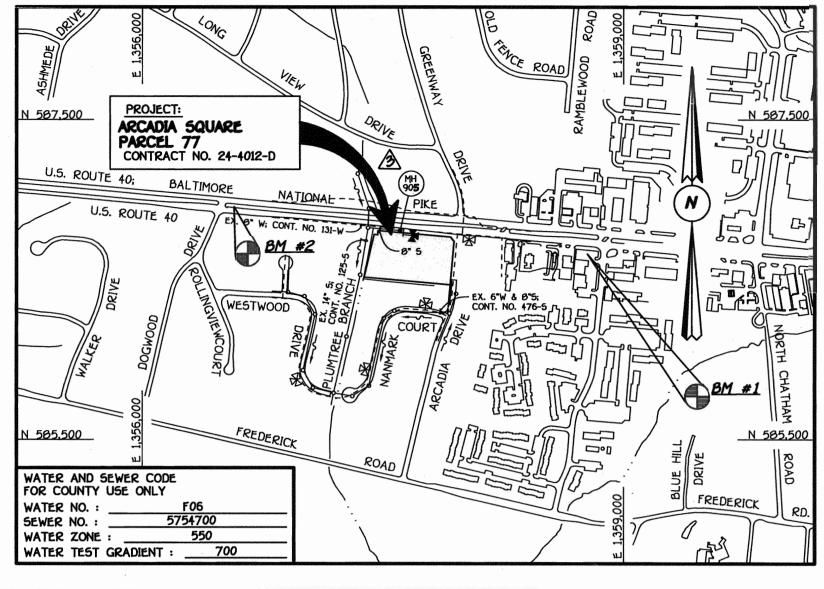
PARCEL 77 CONTRACT NO. 24-4012-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 2 of 2

**SCALE** 

**SHOWN** 





TYPE OF BUILDING : COMMERCIAL; GROUP CARE FACILITY NUMBER OF PARCELS NO. OF WATER HOUSE CONNECTIONS : NO. OF SEWER HOUSE CONNECTIONS DRAINAGE AREA: LITTLE PATUXENT TREATMENT PLANT : LITTLE PATUXENT WATER

RECLAMATION CENTER

PLAN REFERENCE NUMBERS: 5DP02-113

## VICINITY MAP

5CALE : 1" = 600'

BENCHMARK INFORMATION B.M. 1 - HOWARD COUNTY CONTROL STATION 24B3 N 586661.215 E 1359226.415

B.M.•2 - HOWARD COUNTY CONTROL STATION 24B5 N 506956.233

E 1356570.040

**ELEVATION = 305.199** 

# 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 83/91

3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88. 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.

Ø. 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 (CONTRACTOR SERVICES) . . . . . 410-850-4620 BGE (UNDERGROUND DAMAGE CONTROL) . . . . 410-787-9068 BUREAU OF UTILITIES . . . . . 410-313-4900 COLONIAL PIPELINE CO . . . . 410-795-1390
MISS UTILITY . . . . 1-000-257-7777
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 18.114(a) OF THE HOWARD

### PART II: WATER

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 PROVIDED FOR ON THE DRAWINGS.

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.

### PART III: SEWER

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. 24-4012-D ARCADIA SQUARE WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

11-21-02

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

12 13 02 DATE

FISHER, COLLINS & CARTER, INC. UARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE



	TOTAL CONTRACTOR OF THE PARTY O				
	NOVEMBER, 2002	BY	NO.	REVISION	DATE
CHECK!	DATE :	FCC	$\triangle$	REVISE SEWER MAIN ALIGNMENT; REVISE QUANTITIES	4/20/03
	P.W.K.	FCC	<u>A</u>	REVISE WATER SERVICE CONNECTION; 4" TO G"	4/20/0
	CHECKED BY :	KU	A	DELETE INSTALLATION OF MH 900	4/14/04
1	DRAWN BY : M.D.T.	KC	<b>A</b>	DENOTE USE OF RESTRAINED JOINT PIPING	4/14/0
	P.W.K.		-		ŀ
	DESIGNED BY :				

WATER AND SEWER MAINS PLAN VIEW

F.C.C. WORK ORDER NO. \_\_40359\_ FILE NAME : 40359 FINAL WATER & SEWER MAIN PLAN SHT 1 ARCADIA SQUARE

PARCEL 77 CONTRACT NO. 24-4012-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE A5 **SHOWN** SHEET

1 of 2

SEE THIS SHEET FOR WATER MAIN TABULATION CHART

PROPOSED GRADE — (5DP 02-113)

EX. 8" W (CONT. NO.

131 W); 368.80 - \

0+00 ----

CONNECT TO

EX. 8" W W/

Ø"XØ" TAPPING

SLEEVE & VALVE

0+03 --

VALVE

368.80

8" TAPPING

0+35.93 -

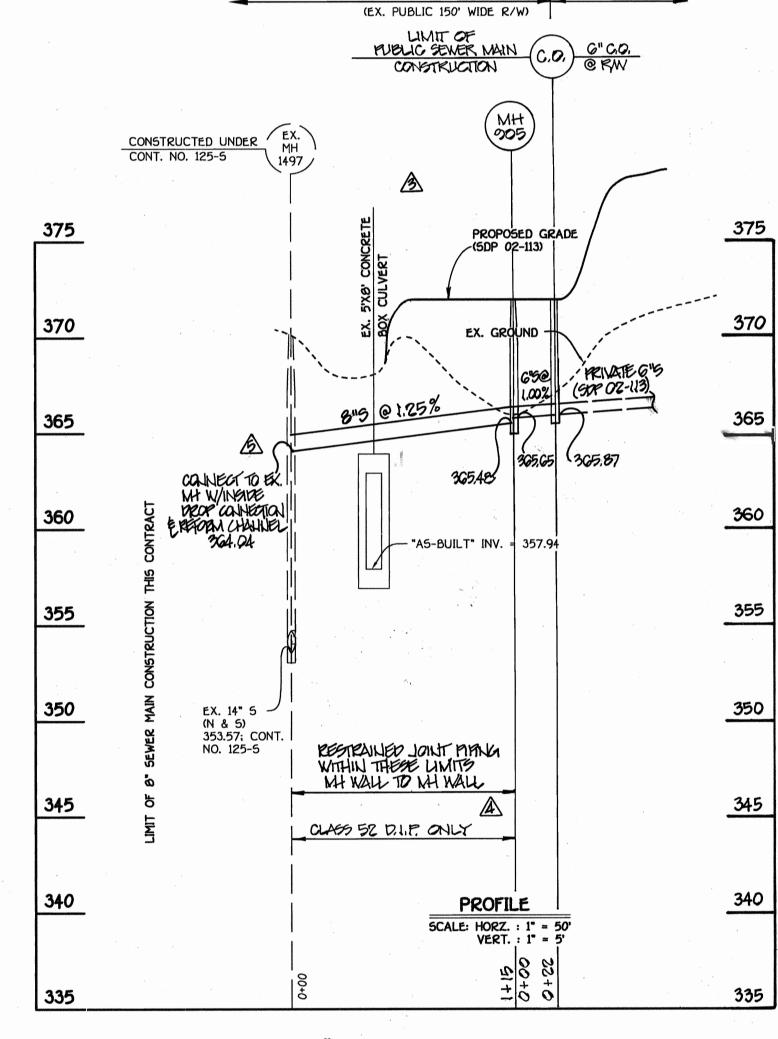
0"X6" FIRE

HYDRANT TEE

U.S. ROUTE 40 (EX. PUBLIC 150' WIDE R/W) MANHOLE TABULATION CHART RIM ELEVATION \* 586,814,27 1,357,516,86 372,00

\* SET MH RIMS FLUSH W/PROPOSED FINISHED GRADE

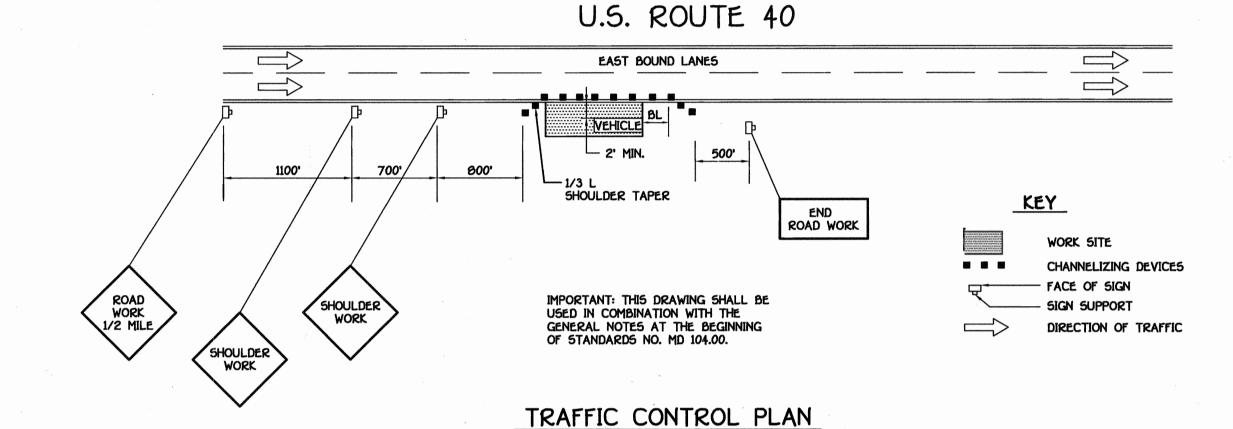
NOTE: SET RIM OF MANHOLE NO. 900 FLUSH W/ PROPOSED GROUND; SEE MANHOLE TABULATION CHART THIS SHEET.



U.S. ROUTE 40

PARCEL 77

8" SEWER MAIN



# J"B" DROP BOWL ELEV. 364.04 STAINLESS STEEL **ADJUSTABLE** CLAMPING BRACKET HILTI ANCHOR-10" Ø 5DR35 PVC SEWER PIPE-EX. BENCH SHALL BE REMOVED A5 REQUIRED AND A NEW CHANNEL SHALL BE FORMED IN WHICH TO "SEAT" THE 10" ELBOW. A SMOOTH TRANSITION SHALL BE PROVIDED INTO THE-EXISTING CHANNEL

NOTE: THE INSIDE DROP CONNECTION SYSTEM SHALL BE AS MANUFACTURED BY RELINER-DURAN INC. INSIDE DROP CONNECTION AT EX. MH #1497

NO SCALE

## MAINTENANCE OF TRAFFIC: SPECIAL PROVISIONS

- 1. THE PURPOSE OF THESE SPECIAL PROVISIONS IS TO ESTABLISH THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE OF TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE
- 2. PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY OF THE TRAVELLING PUBLIC AND THAT OF HIGHWAY WORKERS AND HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY.
- THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT AND WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA TRAFFIC ENGINEER.
- 4. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE MANUAL OF THE UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS (JANUARY, 1982:), INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH.
- 5. THE CONTRACTOR SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS ESTABLISHED IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULE CHANGE. THE CONTRACTOR SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE
- IMPLEMENTATION OF ANY CHANGE. 6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE AND HAVE BEEN CHECKED FOR APPROVED
- 7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL
- HAZARD TO THE PUBLIC. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED. 8. THE CONTRACTOR SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY,
  OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE
- AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS. 9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION, FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION Ø14 OF THE SPECIFICATIONS, FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER
- AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE. 10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN
- SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE. 11. THROUGHOUT THE PERIOD(5) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY

IMPLEMENTING THE APPROVED TCP.

- 12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE
- 13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTE. NO TRAVEL LANE(S) OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.

CONTRACT NO. 24-4012-D ARCADIA SQUARE WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

355

350

380

DEPARTMENT OF PLANNING AND ZONING

12/18/3-

20' PUBLIC WATER & UTILITY EASEMENT

FIRST FLOOR ELEV. = 380.80

- BASEMENT ELEV. = 370.50

PROPOSED GROUP

CARE FACILITY

6" PLUG & BUTTRESS;

PROFILE

SCALE: HORZ. : 1" = 50'

VERT. : 1" = 5"

LIMIT OF 4" WM

CONSTRUCTION THIS

CONTRACT

371.35

8"X6" REDUCER

0+41.93

370.87

- 0+38.93

8" WATER MAIN

6" VALVE

380

365

360

355

350

FISHER, COLLINS & CARTER, INC. CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS ARE OFFICE PARK - 10272 BALTIMORE NATIONAL PI ELLICOTT CITY, MARYLAND 21042



DESIGNED BY : P.W.K.	FU	<b>₽</b>	ADD INGIDE DROP CONNECTION DETAIL	4/14/0
	FW	B	REVIGE GENER MAIN PROFILE (OVER EX. CULVERET)	4/14/0
DRAWN BY : M.D.T.	FU	A	DENOTE USE OF RESTRAINED JOINT PIPING	4/4/0
	FU	A	DELETE INSTALLATION OF MH 900	4/14/0
CHECKED BY :	FCC		REVISE WATER SERVICE CONNECTION; 4" TO 6"	4/29/0
DATE:	FCC	1	REVISE SENER MAIN PROFILE PER REVISED ALIGNMENT	4/20/0
NOVEMBER, 2002	вγ	NO.	REVISION	DATE

WATER AND SEWER MAINS PROFILES & TRAFFIC PLAN

600' SCALE MAP NO. 24 BLOCK NO. F.C.C. WORK ORDER NO. \_\_ うじょうう\_ FILE NAME: 40359 FINAL WATER & SEWER MAIN PROFILES 5HT 2 ARCADIA SQUARE

PARCEL 77 CONTRACT NO. 24-4012-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SHEET 2 of 2

**SCALE** 

**SHOWN** 

Water and Sewer/40359 Final Water and Sewer Profiles Sht 2.dwg, 4/15/2004 9:35:00 AM Water and Sewer/40359 Final Water and Sewer Profiles Sht 2.dwg, 4/15/2004 9:35:00 AM

NOTE: SEE SHEET 2 OF 2 FOR TRAFFIC CONTROL PLAN FOR WATER AND SEWER MAIN CONSTRUCTION WITHIN THE R/W OF U.S. ROUTE 40

SEE SHEET 2 OF 2 FOR WATER MAIN TABULATION CHART

DEVELOPER'S CERTIFICATION " I/WE HEREBY CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION 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

SIGNATURE OF DEVELOPER

## 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 CONSERVATION DISTRICT.

HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS

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

NATURAL RESOURCES CONSERVATION SERVICE

DIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE 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 SDP02-113 AND

LEWAL PARTNERSHIP

SIGNATURE OF DEVELOPER DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

FISHER, COLLINS & CARTER, INC. VIL ENGINEERING CONSULTANTS & LAND SURVEYOR QUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PI ELLICOTT CITY, MARYLAND 21042

REGRAINED JOINT PIANG WITHIN THESE LIMITS

EX. GUARDRAIL -

SHA R/W LINE -SILT FENCE -

> EX. CONCRETE HEADWALL -

CONSTRUCTED UNDER (EX.)
CONT. NO. 125-5 (MH

EX. 20' WIDE DRAINAGE

PROPERIY OF ROLLING

ACRES IMPROVEMENT

ASSOCIATION INC.

L 353 F. 3

ZONED: R-20

POLE NO. 7

N 586,500

30' DRAINAGE &

UTILITY EASEMENT

& UTILITY EASEMENT

L. 353 F.3 ---

EX. 20' R/W FOR

A SEWER MAIN -

-EX. 5'XO' BOX CULYERT

6° C.O. LIMIT OF PUBLIC SEWER MAIN CONSTRUCTION

CONSERVATION

EASEMENT

LOT 4

- CONNECT 8° 5 TO EX. MH WINSIDE DROP CONNECTION
SEE DEPOIL SHEET 2

EX. EDGE OF SHOULDER

100 YEAR FLOODPLAIN,

DRAINAGE & UTILITY EASEMENT

- EX. 20' WIDE DRAINAGE

& UTILITY EASEMENT

LOT 3



DESIGNED BY :					
	Kei	今	ASBUILT DATA SHOWN ON PLAN		0
DRAWN BY :	KL	A	DENOTE USE OF RESTRAINED JOINT MANG		4
CHECKED BY :	KU	B	DELETE INSTALLATION OF MY 900		4
	FCL	A	REVISE WATER SERVICE CONNECTION; 4" TO 6"	i sia .	4
DATE :	FCC	1	REVISE SEWER MAIN ALIGNMENT; REVISE QUANTITIES		4
NOVEMBER, 2002	BY:	NO.	REVISION:		1

WATER AND SEWER MAINS PLAN VIEW

600' SCALE MAP NO. \_\_\_\_\_3\_ BLOCK NO. \_\_\_\_3 DATE FILE NAME : 40359 FINAL WATER & SEWER MAIN PLAN SHT 1 ARCADIA SQUARE

PARCEL 77 CONTRACT NO. 24-4012-D SECOND ELECTION DISTRICT

ARCADIA SQUARE PARCEL 77 CONTRACT NO. 24-4012-D U.S. ROUTE 40; BALTIMORE (WESTWOOD FREDERICK N 585,500 N 585,500 WATER AND SEWER CODE FOR COUNTY USE ONLY FREDERICK WATER NO. : SEWER NO. : WATER ZONE : WATER TEST GRADIENT : \_\_\_ 700

TYPE OF BUILDING : COMMERCIAL; GROUP CARE FACILITY NUMBER OF PARCELS : NO. OF WATER HOUSE CONNECTIONS: NO. OF SEWER HOUSE CONNECTIONS : LITTLE PATUXENT DRAINAGE AREA : TREATMENT PLANT : LITTLE PATUXENT WATER

RECLAMATION CENTER

PLAN REFERENCE NUMBERS: 5DP02-113

SCALE : 1" = 600'

BENCHMARK INFORMATION B.M. 1 - HOWARD COUNTY CONTROL STATION 24B3 N 586661.215 E 1359226.415

**ELEVATION = 385.199** 

**ELEVATION = 390.945** 

B.M. •2 - HOWARD COUNTY CONTROL STATION 24B5 N 506956.233 E 1356570.840

## GENERAL NOTES

N 587,000

- EX. GAS VALVE

- PROPERTY OF SALVATORE

VINCENZA CALIADIAN

L 1955 F. 40

ZONED: R-20

TO U.S. ROUTE 29

EX. PAVING -(EAST-BOUND LANES)

50" STREAM

EX. 18" 5D

- EX. CONC.

LOT 1

ARCADIA DRIVE

(EX. 50' PUBLIC R/W) -

HEADWALL

- UNDERGROUND

5.W.M. FACILITY

U.S. ROUTE 40; BALTIMORE NATIONAL PIKE

EX. 20' WIDE DRAINAGE

& UTILITY EASEMENT -

W.M. STA. 0+35.93

BURY LINE ELEV. = 377.30

( 7.5 V.F.)

BACK OF CURB

- CONNECT TO EX. 8" W W/ 8"X8" TAPPING

SLEEVE & VALVE

REDUCER

4" PLUG & BUTTRESS;

LIMIT OF PUBLIC WATER MAIN CONSTRUCTION

PROPOSED GROUP

CARE FACILITY

NOB HILL SECTION 48

PLAN

SCALE: 1" = 50'

M.C.E.= 370.01

F.F. ELEV.= 380.80

B. ELEV.= 370.50

G" VALVE

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 03/91. 3. ALL VERTICAL CONTROLS ARE BASED ON NAVD 88.

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.

B. 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 (CONTRACTOR SERVICES) . . . . . 410-850-4620 BGE (UNDERGROUND DAMAGE CONTROL) . . . . 410-767-9068 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 18.114(a) OF THE HOWARD

### PART II: WATER

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 PROVIDED FOR ON THE DRAWINGS.

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.

### PART III: SEWER

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. 24-4012-D ARCADIA SQUARE

WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

HOWARD COUNTY, MARYLAND

SHEET 1 of 2

**SCALE** 

SHOWN

SEE THIS SHEET FOR WATER MAIN TABULATION CHART

PROPOSED GRADE -

EX. 6" W (CONT. NO.

131 W); 368.80 - \

CONNECT TO

EX. 8" W W/ 8"X8" TAPPING

SLEEVE & VALVE

0+03 --

VALVE

**6"** TAPPING

0+35.93 - -

0"X6" FIRE

HYDRANT TEE

(SDP 02-113)

375

360

350

U.S. ROUTE 40

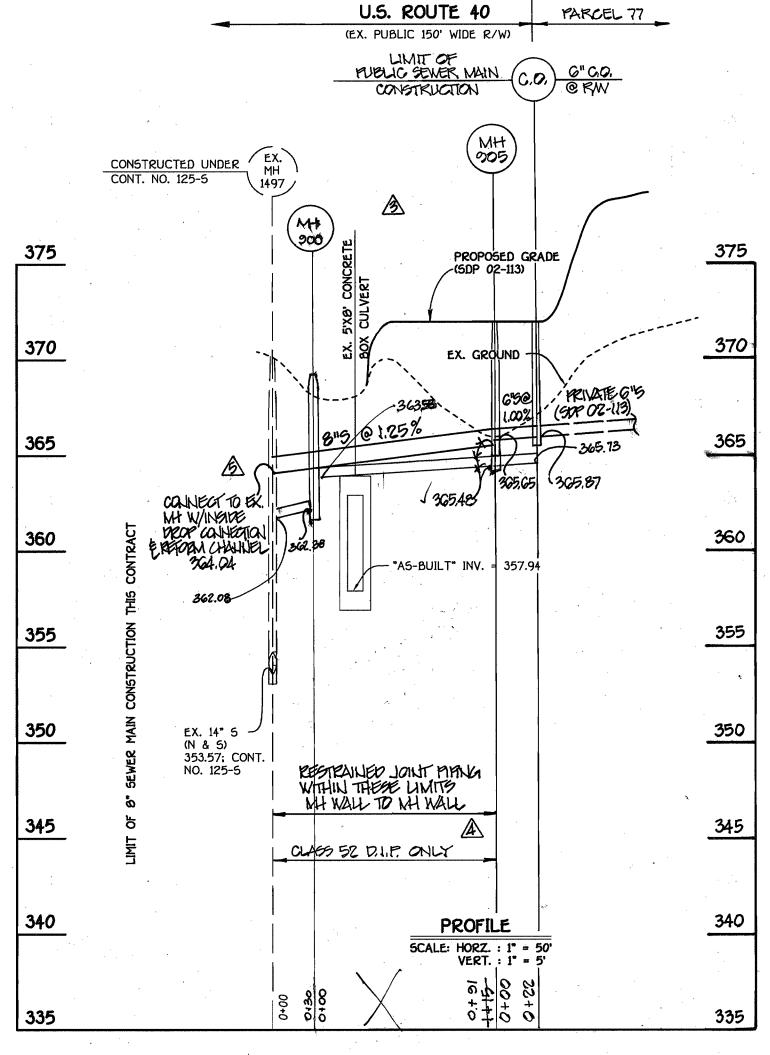
(EX. PUBLIC 150' WIDE R/W)

M	ANHOLE IAI	BULATION C	HARI
NO.	NORTHING	EASTING	RIM ELEVATION X
205	586,814,27	1,357,516,86	372,00

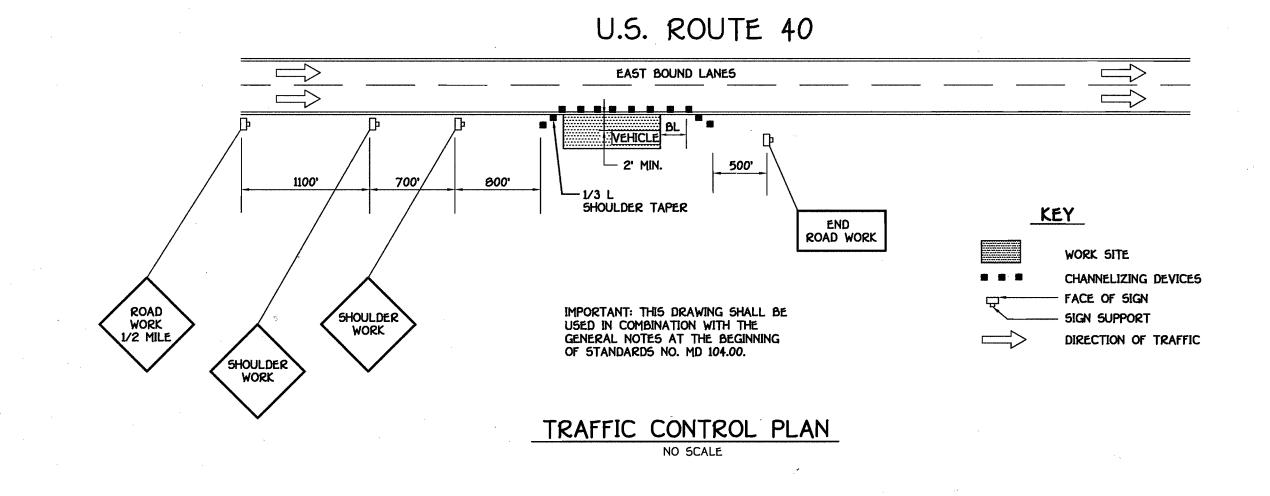
NOTE: SET RIM OF MANHOLE NO. 900 FLUSH W/

CHART THIS SHEET.

PROPOSED GROUND; SEE MANHOLE TABULATION



SEWER MAIN



# MAINTENANCE OF TRAFFIC: SPECIAL PROVISIONS

- 1. THE PURPOSE OF THESE SPECIAL PROVISIONS IS TO ESTABLISH THE TRAFFIC CONTROL REQUIREMENTS NECESSARY FOR THE SAFE AND EFFICIENT MAINTENANCE OF TRAFFIC WITHIN WORK AREAS, AND TO MINIMIZE ANY INCONVENIENCES TO THE TRAVELING PUBLIC AND THE 2. PROPER TRAFFIC CONTROL THROUGH WORK AREAS IS ESSENTIAL FOR INSURING THE SAFETY OF THE TRAVELLING PUBLIC AND THAT OF HIGHWAY WORKERS AND HAS THE HIGHEST PRIORITY OF ALL TASKS WITHIN THIS PROJECT. THE PROPER APPLICATION OF THE APPROVED TRAFFIC
- CONTROL PLAN (TCP) WILL PROVIDE THE DESIRED LEVEL OF SAFETY. 3. THROUGHOUT THESE SPECIAL PROVISIONS, ANY MENTION OF THE TCP SHALL BE IMPLIED TO INCLUDE ANY COMBINATION OF TYPICAL TRAFFIC CONTROL STANDARDS WHICH FORM THE OVERALL TCP FOR THIS PROJECT AND WHICH HAS BEEN APPROVED BY THE APPROPRIATE SHA
- TRAFFIC ENGINEER. 4. THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE MANUAL OF THE UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), 1988 EDITION, ESPECIALLY PART VI, AND TO SECTION 814 OF THE MARYLAND DOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS
- (JANUARY, 1982;), INCLUDING ALL REVISIONS AND SUPPLEMENTS TO EACH. 5. THE CONTRACTOR SHALL BE REQUIRED TO ADHERE TO THE REQUIREMENTS ESTABLISHED IN THE TCP AND THESE SPECIAL PROVISIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY REQUESTS TO MAKE MINOR CHANGES TO THE TCP OR THE SPECIAL PROVISIONS WITH REGARD TO THE TRAFFIC CONTROL ITEMS SHALL BE MADE IN WRITING TO THE ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE PROPOSED SCHEDULE CHANGE. THE
- CONTRACTOR SHALL HAVE WRITTEN APPROVAL OF THE ENGINEER PRIOR TO THE IMPLEMENTATION OF ANY CHANGE. 6. NO WORK SHALL BEGIN ON ANY WORK ACTIVITY OR WORK PHASE UNTIL ALL REQUIRED TRAFFIC CONTROL PATTERNS AND DEVICES INDICATED ON THE TCP FOR THAT ACTIVITY OR PHASE ARE COMPLETELY AND CORRECTLY IN PLACE AND HAVE BEEN CHECKED FOR APPROVED
- 7. GENERAL AND SPECIFIC WARNING SIGNS SHALL ONLY BE IN PLACE WHEN SPECIFIC WORK TASKS AND ACTIVITIES ARE ACTUALLY UNDERWAY OR CONDITIONS EXIST THAT POSE A POTENTIAL HAZARD TO THE PUBLIC. NOTE: THE PRACTICE OF PLACING SIGNING AND OTHER TRAFFIC
- CONTROL DEVICES IN ADDITION TO THOSE INDICATED ON THE APPROVED TCP IS NOT PERMITTED. 6. THE CONTRACTOR SHALL PROVIDE, MAINTAIN IN NEW CONDITION, AND MOVE WHEN NECESSARY, OR AS DIRECTED BY THE ENGINEER, ALL TRAFFIC CONTROL DEVICES USED FOR THE GUIDANCE
- AND PROTECTION OF MOTORISTS, PEDESTRIANS, AND WORKERS. 9. ALL TRAFFIC CONTROL DEVICES REQUIRED BY THE TCP SHALL BE KEPT IN GOOD CONDITION FULLY PERFORMING AS SET FORTH IN THE TCP, THE MUTCD, AND/OR SECTION 014 OF THE SPECIFICATIONS. FOR REFLECTIVE DEVICES, A PARTICULAR DEVICE IS ASSUMED TO HAVE FAILED TO MEET MINIMUM OPERATIONAL STANDARDS WHEN THE DEVICE NO LONGER HAS RETRO-REFLECTANCE CAPABILITY OF AT LEAST 60% OF THE SPECIFIED MINIMUM VALUE OVER
- AT LEAST 90% OF THE VISIBLE REFLECTIVE SURFACE. 10. ALL TRAFFIC CONTROL DEVICES NOT REQUIRED FOR THE SAFE CONDUCT OF TRAFFIC SHALL BE PROMPTLY REMOVED, COMPLETELY COVERED, TURNED AWAY FROM TRAFFIC, OR OTHERWISE TAKEN OUT OF SERVICE. IT IS INTENDED THAT NO TRAFFIC CONTROL DEVICE IS TO BE IN SERVICE WHEN THERE IS NO CLEAR CUT REASON FOR THE DEVICE.
- 11. THROUGHOUT THE PERIOD(S) OF WORK ACTIVITIES, TRAFFIC SHALL BE MAINTAINED BY IMPLEMENTING THE APPROVED TCP. 12. THROUGHOUT THESE SPECIAL PROVISIONS, WHERE SPEED OF TRAFFIC IS NOTED, THIS MEANS THE POSTED SPEED OR PREVAILING TRAVEL SPEED, WHICHEVER IS HIGHER, UNLESS OTHERWISE
- 13. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE ENTIRE LENGTH OF THE PROJECT, UNLESS OTHERWISE NOTE. NO TRAVEL LANE(S) OTHER THAN THOSE DESIGNATED FOR POSSIBLE CLOSURE IN THE TCP SHALL BE CLOSED WITHOUT OBTAINING PRIOR APPROVAL FROM

THE ENGINEER. ALL INGRESS AND EGRESS TO THE WORK AREA BY THE CONTRACTOR SHALL BE PERFORMED WITH THE FLOW OF TRAFFIC.

> CONTRACT NO. 24-4012-D ARCADIA SQUARE PARCEL 77 WATER AND SEWER MAIN EXTENSIONS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PUBLIC WORKS

DEPARTMENT OF PLANNING AND ZONING HOWARD COUNTY, MARYLAND

20' PUBLIC WATER & UTILITY EASEMENT

FIRST FLOOR ELEV. = 380.80

- BASEMENT ELEV. = 370.50

- PROPOSED GROUP

CARE FACILITY .

380

375

365

360

355

350

PARCEL 77

(BY OTHERS)

6" PLUG & BUTTRESS:

PROFILE

SCALE: HORZ. : 1" = 50"

VERT. : 1" = 5'

LIMIT OF 4" WM CONSTRUCTION THIS

CONTRACT

371.35

8"XG" REDUCER

- 0+41.93

370.87

- 0+38.93

370.36

8" WATER MAIN

6" VALVE



The second secon	
•9757 FOF MARYLA	1
AO. OTO	j
- williams use	
TERRELL A. FISHER	N

	K.C.1	A	ASBUILT DATA SHOWN	06
DESIGNED BY : P.W.K.	FU	A	ADD INSIDE DROP CONNECTION DETAIL	4/
	FW	B	REVISE SENER MAIN PROFILE (OVER EX. CULVERT)	4
DRAWN BY : M.D.T.	FU	A	DENOTE USE OF RESTRAINED JOINT PIPING	41
	FU	B	DELETE INSTALLATION OF MY 900	4/
CHECKED BY :	KU	12	REVISE WATER SERVICE CONNECTION; 4"TO 6"	4/2
DATE :	FCC	$\overline{\Lambda}$	REVISE SEWER MAIN PROFILE PER REVISED ALIGNMENT	4/
NOVEMBER. 2002	AV	NO	PEVISION	n,

WATER AND SEWER MAINS PROFILES & TRAFFIC PLAN

`-EX. 14\* 5 (N&5) ELEV. 353.57

J'B' DROP BOWL

ELEV. 364.04

STAINLESS STEEL

ADJUSTABLE

CLAMPING BRACKET 4'-0" c/c MAX

HILTI ANCHOR-

10" Ø SDR35 PVC SEWER PIPE-

EX. BENCH SHALL BE REMOVED

as required and a new

CHANNEL SHALL BE FORMED

IN WHICH TO "SEAT" THE 10"

ELBOW. A SMOOTH TRANSITION

SHALL BE PROVIDED INTO THE-

EXISTING CHANNEL

NOTE: THE INSIDE DROP CONNECTION SYSTEM SHALL

BE AS MANUFACTURED BY RELINER-DURAN INC.

F.C.C. WORK ORDER NO. \_\_40359\_

ARCADIA SQUARE

PARCEL 77 CONTRACT NO. 24-4012-D SECOND ELECTION DISTRICT HOWARD COUNTY, MARYLAND

**SCALE** SHOWN. **SHEET** 

HOWARD COUNTY, MARYLAND

11.21.02

DATE FILE NAME : 40359 FINAL WATER & SEWER MAIN PROFILES SHT 2

INSIDE DROP CONNECTION AT EX. MH #1497

NO SCALE

2 of 2