

GUILFORD ROAD SEWER MAIN CAPITAL PROJECT S-6210 CONTRACT NO. 30-3690

ITEM	QUANTITIES		TYPE MATERIAL	SUPPLIER
	ESTIMATED	AS BUILT		
8" SEWER (DIP)	972 LF	972 LF	CLASS 52	GRIFFIN PIPE CO.
8" SEWER (PVC OR DIP)	1,607 LF	1,607 LF	SDR-35	MUNICIPAL CONTRACTORS
36" O.D. STEEL CASING PIPE	70 LF	80 LF	36" x 12" NON-CORR.	BALTO. PIPE INC.
4" SEWER HOUSE CONNECTION (HORIZONTAL)	160 LF	208 LF	PVC SDR-35	MUNICIPAL CONTRACTORS
4" SEWER HOUSE CONNECTION (VERTICAL)	45 VF	204 VF	PVC SDR-35	MUNICIPAL CONTRACTORS
MANHOLES	11 EA	11 EA	PRECAST CONCRETE	ATLANTIC PRECAST
MANHOLES-DEPTH>6'	91 VF	91 VF	PRECAST CONCRETE	ATLANTIC PRECAST

NOTE:
"SEDIMENT CONTROL TO BE IMPLEMENTED IN ACCORDANCE WITH VOLUME 4, ARTICLE 15 OF THE HOWARD COUNTY DESIGN MANUAL AND THESE PLANS."

ENGINEER'S CERTIFICATION
I 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 HOWARD COUNTY SOIL CONSERVATION DISTRICT.

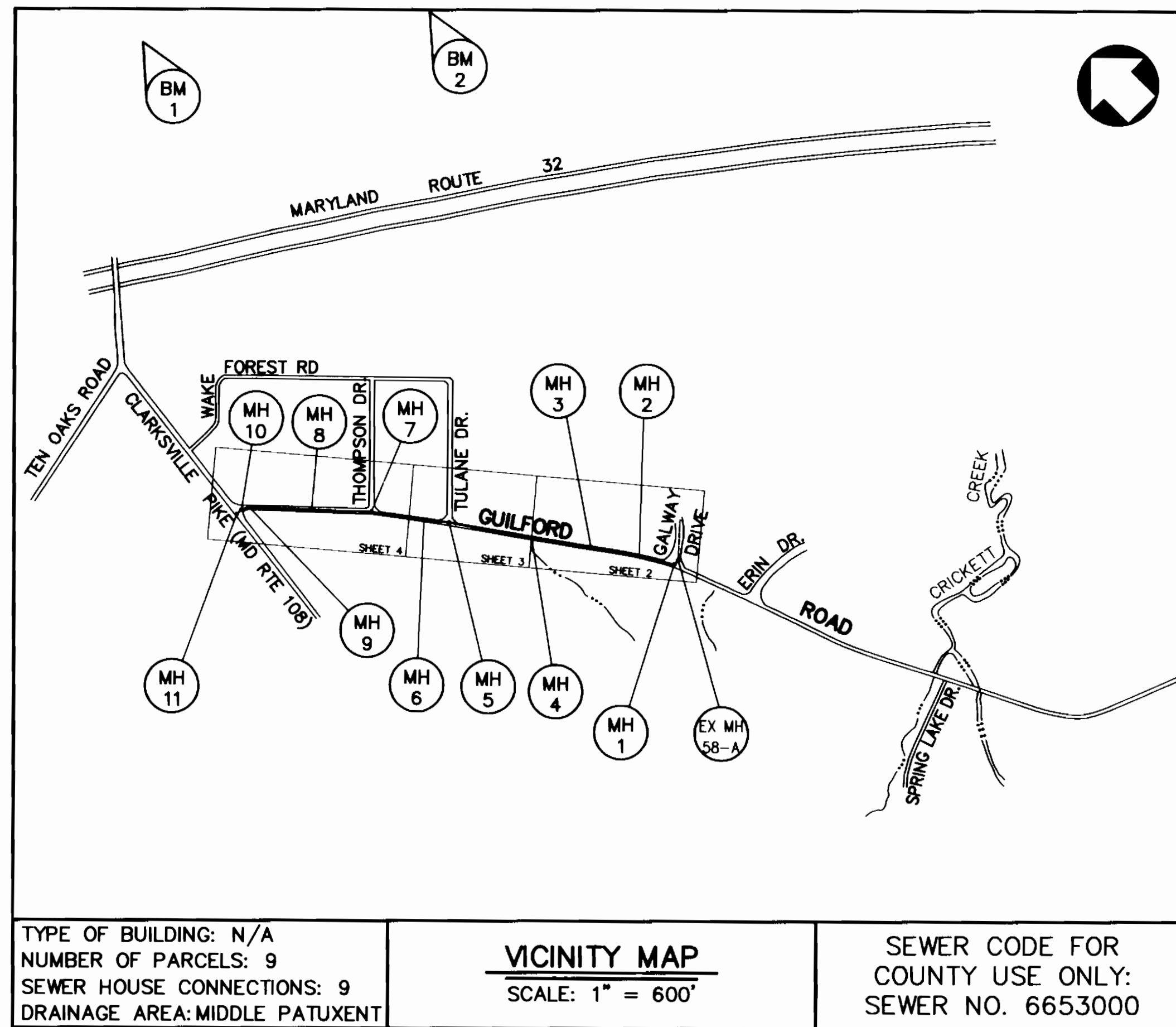
Joseph J. Smith DATE 6-30-98
WALLACE, MONTGOMERY & ASSOCIATES
110 WEST ROAD - SUITE 345
TOWSON, MARYLAND 21204
(410) 494-9093

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS.
Chief Summary / us 7/29/98
U.S.D.A. - NATURAL RESOURCES CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR THE SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
J.P. Robinson / us 7/29/98
APPROVED DATE
HOWARD SOIL CONSERVATION DISTRICT

DEVELOPER'S CERTIFICATION
"I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A 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 COUNTY SOIL CONSERVATION DISTRICT."

Joseph J. Smith DATE 7/1/98
SIGNATURE OF DEVELOPER DATE
PRINT NAME BELOW SIGNATURE



TYPE OF BUILDING: N/A
NUMBER OF PARCELS: 9
SEWER HOUSE CONNECTIONS: 9
DRAINAGE AREA: MIDDLE PATUXENT

VICINITY MAP
SCALE: 1" = 600'

SEWER CODE FOR COUNTY USE ONLY:
SEWER NO. 6653000

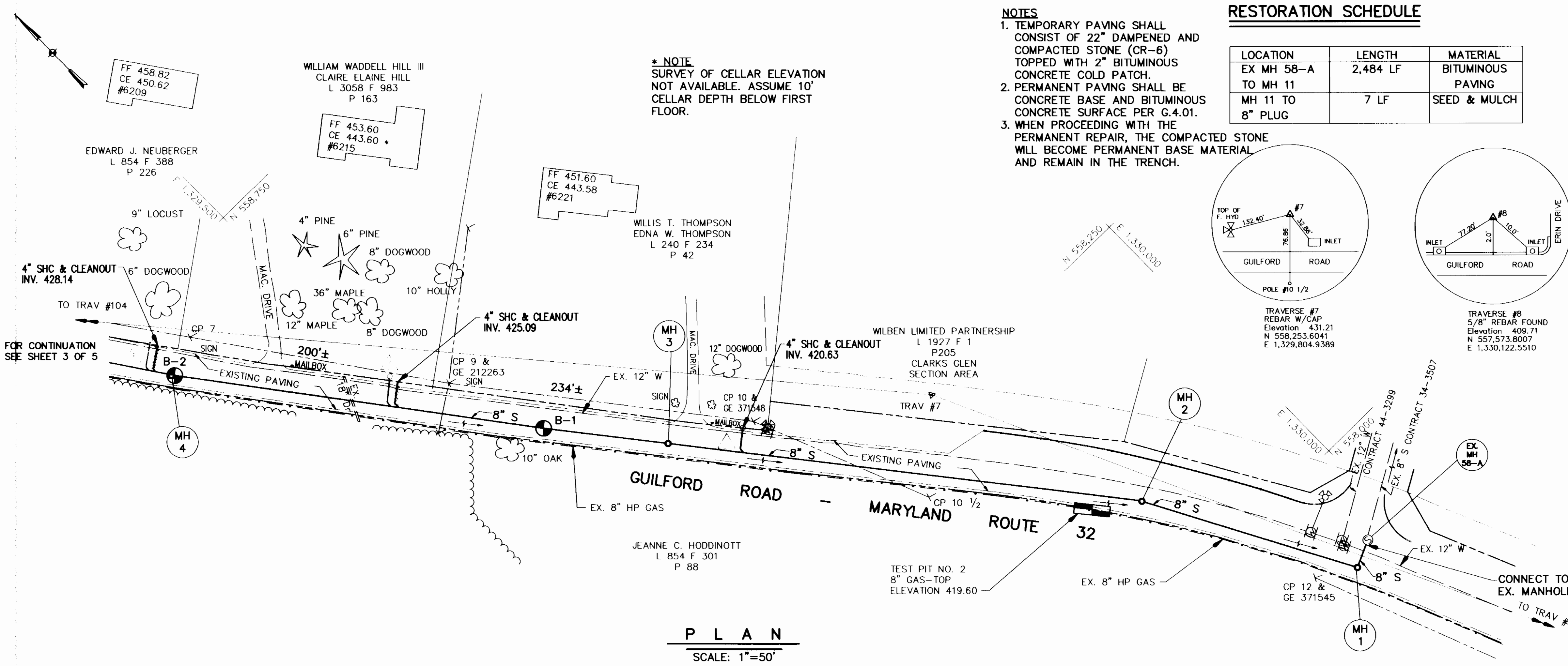
INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GUILFORD ROAD-PLAN AND PROFILE
3	GUILFORD ROAD-PLAN AND PROFILE
4	GUILFORD ROAD-PLAN AND PROFILE
5	TRAFFIC CONTROL PLAN

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 SUPPLY. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL HORIZONTAL CONTROLS BASED ON MARYLAND STATE COORDINATES. (NAD 83)
- ALL VERTICAL CONTROLS BASED ON U.S.G.S. DATUM. (NAVD 29)
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
- CLEAR ALL UTILITIES BY A MINIMUM 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. THE CONTRACTOR SHALL HAVE A COPY OF VOLUME IV ON THE JOB.
- WHERE TEST PITS ARE TO BE MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE SYMBOL [Symbol] AT THE LOCATION OF THE TEST PIT. 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 VERIFIED BY THE CONTRACTOR TO HIS OWN SATISFACTION. ANY DAMAGE TO EXISTING FACILITIES DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
HOWARD COUNTY BUREAU OF UTILITIES 410-313-4900
HOWARD COUNTY CONSTRUCTION INSPECTION DIVISION 410-313-1880
BGE 1-800-685-0123
BELL ATLANTIC 1-800-446-5266
STATE HIGHWAY ADMINISTRATION 410-531-5533
MISS UTILITY 1-800-257-7777
- TREE AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER, UNLESS OTHERWISE NOTED.
- SEWER HOUSE CONNECTIONS SHALL BE OF THE SAME MATERIAL AS THE GRAVITY SEWER MAIN.
- SEWER MAIN SHALL BE D.I.P. OR PVC UNLESS OTHERWISE NOTED.
- HOUSES WITH THE SYMBOL "C.N.S" INDICATES THAT THE CELLAR CAN NOT BE SERVED.
- THE CONTRACTOR IS ADVISED THAT THE EXISTING PAVING SECTION MAY INCLUDE A CONCRETE BASE COURSE.

AS-BUILT 4-5-99

<p>DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND</p> <p><i>Can...</i> DATE 7/1/98 DIRECTOR OF PUBLIC WORKS</p> <p><i>...</i> DATE 7-1-98 CHIEF, BUREAU OF UTILITIES</p>	<p>WALLACE, MONTGOMERY & ASSOCIATES CIVIL AND STRUCTURAL ENGINEERS 110 WEST ROAD TOWSON, MARYLAND 21204</p> <p><i>Joseph J. Smith</i> DATE 6-30-98</p>	<table border="1"> <tr> <td>DES: WBH</td> <td>DATE: 6/30/98</td> <td>BY: NO.</td> <td>REVISION</td> <td>DATE</td> </tr> <tr> <td>DRN: RWB</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CHK: JJS</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	DES: WBH	DATE: 6/30/98	BY: NO.	REVISION	DATE	DRN: RWB					CHK: JJS					<p>TITLE SHEET</p>	<p>GUILFORD ROAD SEWER MAIN CAPITAL PROJECT S-6210 CONTRACT NO. 30-3690 ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND</p>	<p>SCALE AS SHOWN</p> <p>SHEET 1 OF 5</p>
DES: WBH	DATE: 6/30/98	BY: NO.	REVISION	DATE																
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NOTES
 1. TEMPORARY PAVING SHALL CONSIST OF 22" DAMPENED AND COMPACTED STONE (CR-6) TOPPED WITH 2" BITUMINOUS CONCRETE COLD PATCH.
 2. PERMANENT PAVING SHALL BE CONCRETE BASE AND BITUMINOUS CONCRETE SURFACE PER G.4.01.
 3. WHEN PROCEEDING WITH THE PERMANENT REPAIR, THE COMPACTED STONE WILL BECOME PERMANENT BASE MATERIAL AND REMAIN IN THE TRENCH.

RESTORATION SCHEDULE

LOCATION	LENGTH	MATERIAL
EX MH 58-A TO MH 11	2,484 LF	BITUMINOUS PAVING
MH 11 TO 8" PLUG	7 LF	SEED & MULCH

TRAVERSE SURVEY CONTROL

B.M. #1 ELEV 485.27
 HOWARD CO. CONTROL STA. 348B
 STAMPED CONC. MON. ON E. SIDE OF RTE. 108, 1.3' E. OF EDGE OF PAVEMENT, 112' N. OF BG&E POLE #531728.
 N. 562,176.441
 E. 1,329,641.893

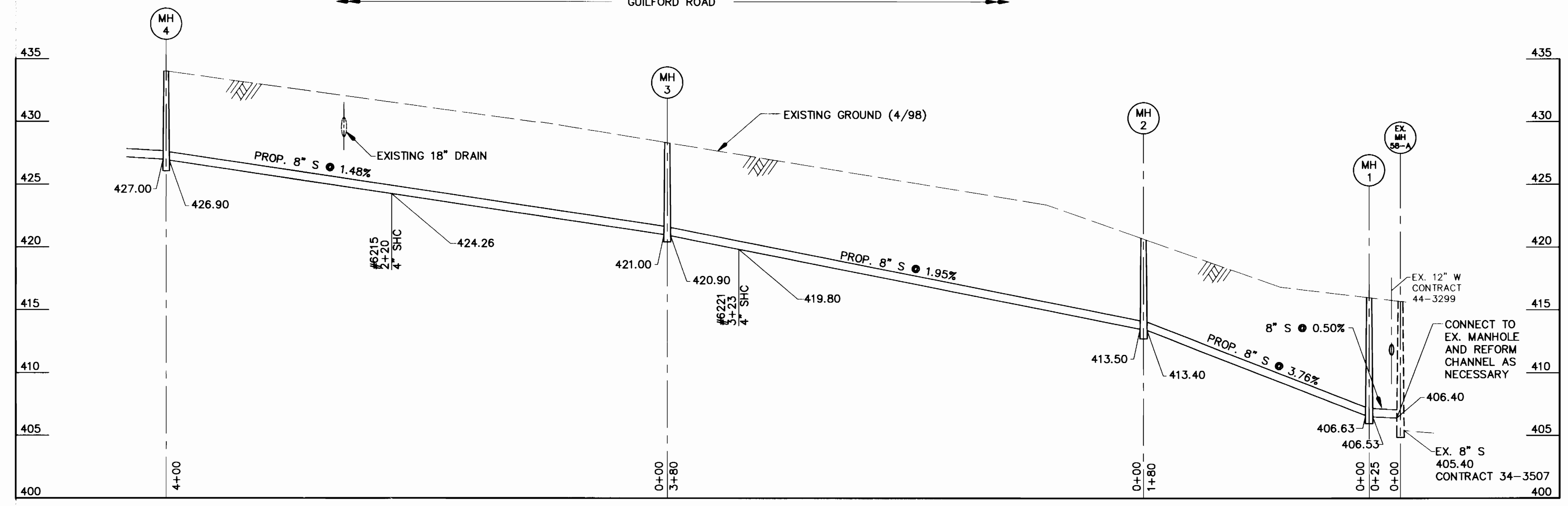
B.M. #2 ELEV 488.64
 HOWARD CO. CONTROL STA. 35A2
 STAMPED CONC. MON. ON W. SIDE OF RTE. 108, 2.8' W. OF EDGE OF PAVEMENT, 47.2' N. OF BG&E POLE #370902.
 N. 564,154.800
 E. 1,331,201.112

TRAVERSE DESCRIPTION

POINT	NORTH	EAST	ELEVATION	DESCRIPTION
101	560615.9468	1328483.5283	484.57	TRAV 101
102	559783.7161	1328454.6762	460.87	TRAV 102
103	559532.0223	1328777.1113	471.77	TRAV 103
104	559051.4367	1329120.5054	452.31	TRAV 104
7	558253.6041	1329804.9389	431.21	TRAV 7 R&C
8	5575773.8007	1330122.5510	409.71	TRAV 8 (5/8" RB)

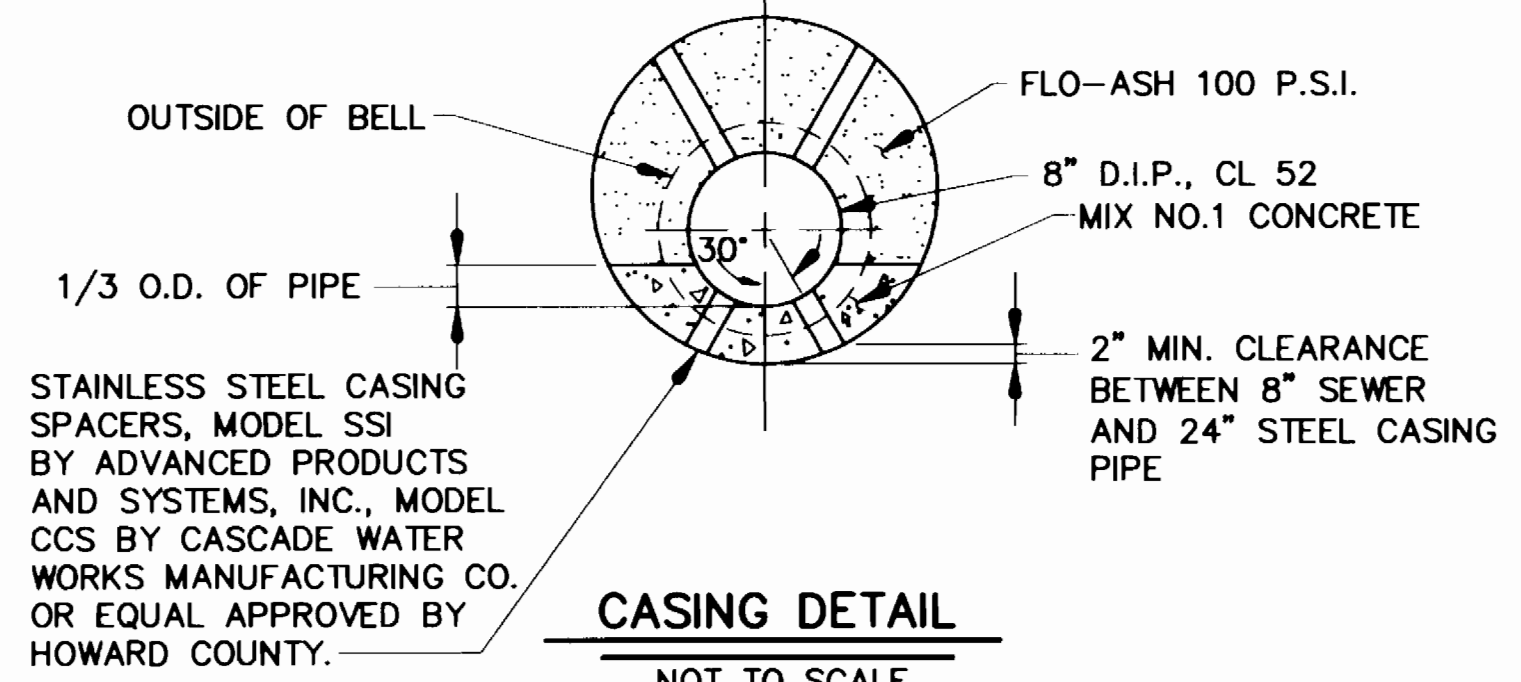
COORDINATE STAKEOUT TABLE

STRUCTURE	NORTH	EAST
EX MH 58-A	557927.1421	1329972.3888
MH-1	557917.2697	1329951.0694
MH-2	558075.6032	1329865.4512
MH-3	558372.9033	1329627.5162
MH-4	558688.8594	1329382.1034
MH-5	558935.0011	1329214.4219
MH-6	559118.0000	1329081.0000
MH-7	559301.7531	1328949.1004
MH-8	559467.0000	1328797.0000
MH-9	559747.1437	1328515.1997
MH-10	559748.3652	1328479.4168
MH-11	559748.1130	1328392.2458



PROFILE
 SCALE: HORIZONTAL: 1"=50'
 VERTICAL: 1"=5'

NOTES:
 1. PROVIDE 8" BRICK BULKHEAD AT EACH END OF CASING. PROVIDE A JOINT IN THE SEWER MAIN WITHIN 2'-0" OF THE END OF THE CASING.
 2. 24" MIN. STEEL CASING PIPE, 3/8" MIN. WALL THICKNESS, A.W.W.A. C-200 WITH COAL TAR ENAMEL COATING, A.W.W.A. C-203 OR C-210, IN 10' LENGTHS. JOINTS TO BE WELDED FULL CIRCUMFERENCE.
 3. FILL ANNULAR SPACE WITH FLO-ASH. CONTRACTOR SHALL PROVIDE CASING SPACERS TO PREVENT FLOTATION OF 8" SEWER WHILE FILLING THE ANNULAR SPACE WITH FLO-ASH. PROVIDE 2"-2" DRAINS THROUGH BRICK BULKHEAD WHILE FILLING WITH FLO-ASH TO PREVENT POCKETS OF WATER IN CASING.



CASING DETAIL
 NOT TO SCALE
 CROSSING OF CLARKSVILLE ROAD (MD ROUTE 108)
 @ GUILFORD ROAD

A5-BUILT 4 5 99

DEPARTMENT OF PUBLIC WORKS
 HOWARD COUNTY, MARYLAND

DIRECTOR OF PUBLIC WORKS: [Signature] DATE: 7-1-99
 CHIEF, BUREAU OF UTILITIES: [Signature] DATE: 7-1-99

CHIEF, BUREAU OF ENGINEERING: [Signature] DATE: 7-1-99
 CHIEF, WATER & SEWER DIVISION: [Signature] DATE: 7-1-99

WALLACE, MONTGOMERY & ASSOCIATES
 CIVIL AND STRUCTURAL ENGINEERS
 110 WEST ROAD
 TOWSON, MARYLAND 21204

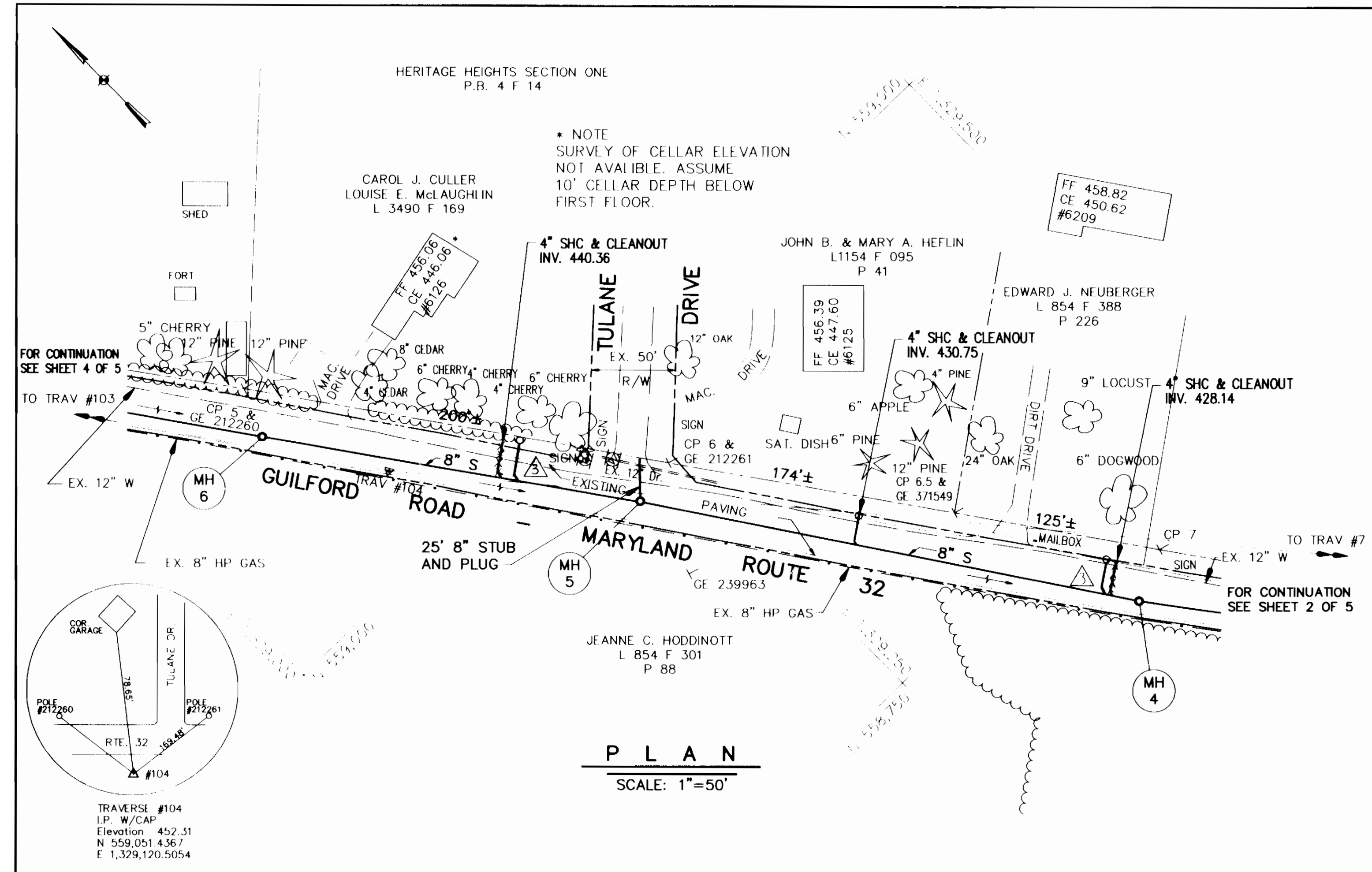
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GUILFORD ROAD
 PLAN AND PROFILE

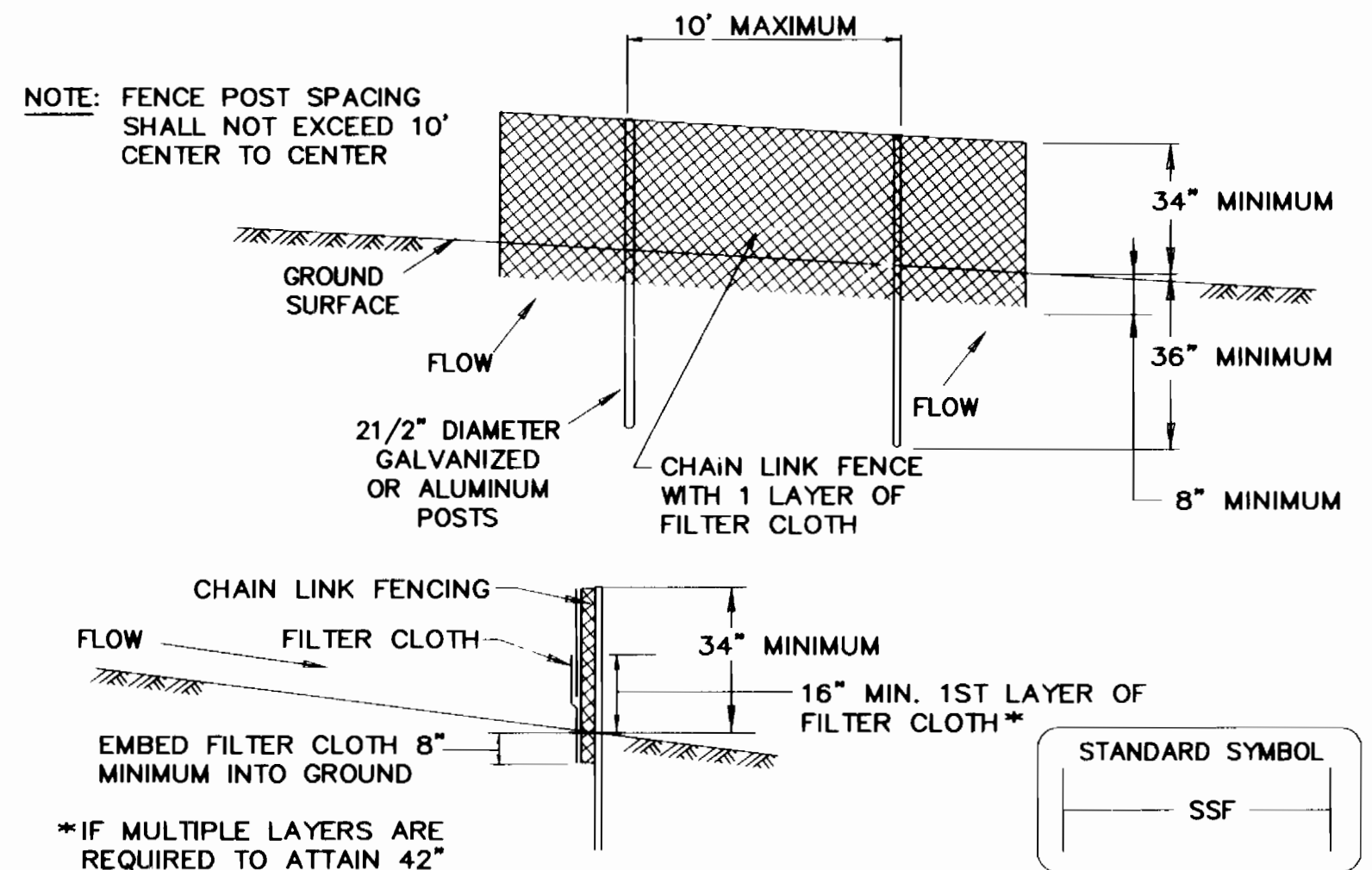
600' SCALE MAP NO. S 34 & 35 BLOCK NO. 12 & 18

GUILFORD ROAD SEWER MAIN
 CAPITAL PROJECT S-6210
 CONTRACT NO. 30-3690
 ELECTION DISTRICT NO. 5
 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
 SHEET 2 OF 5



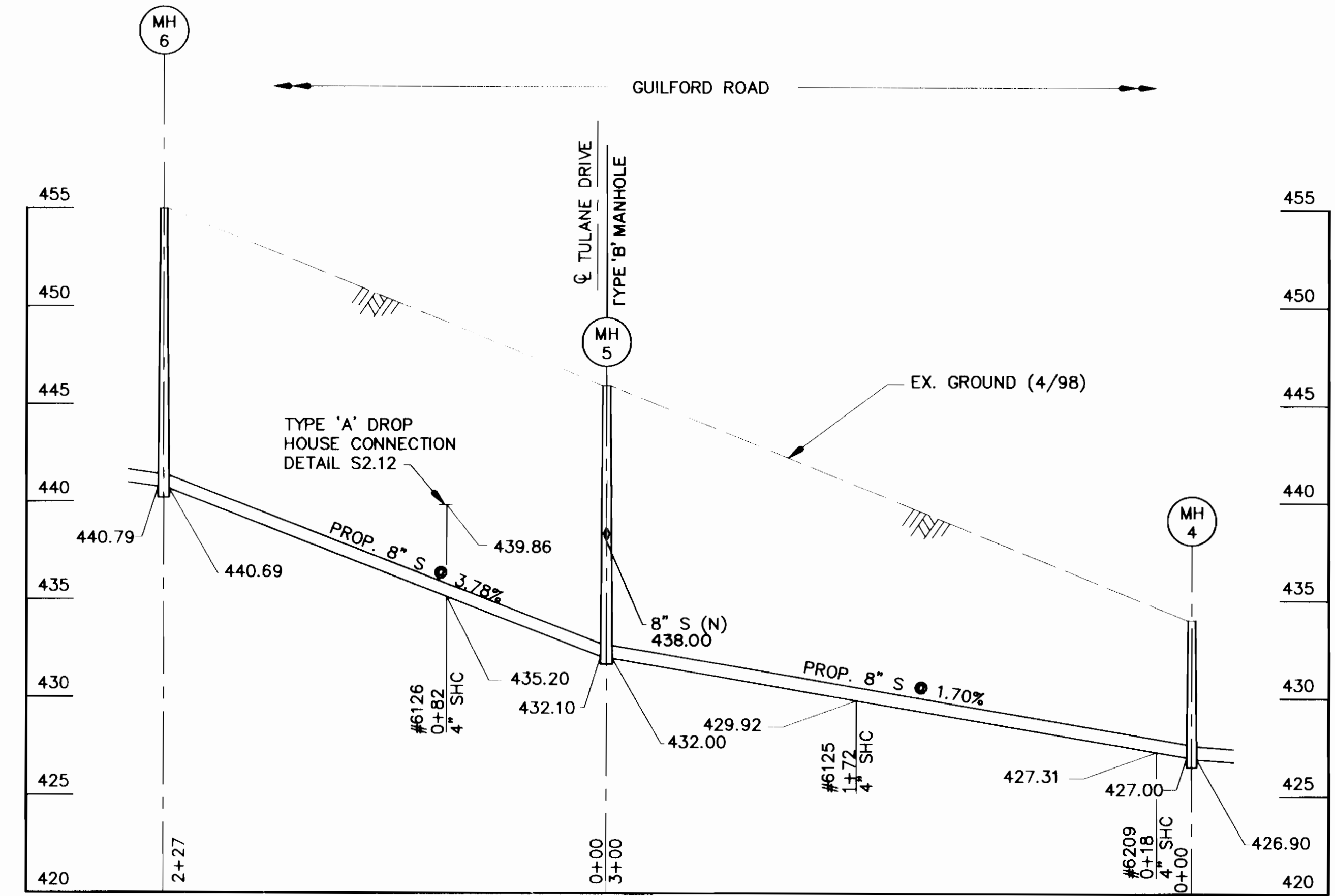
PLAN
SCALE: 1"=50'



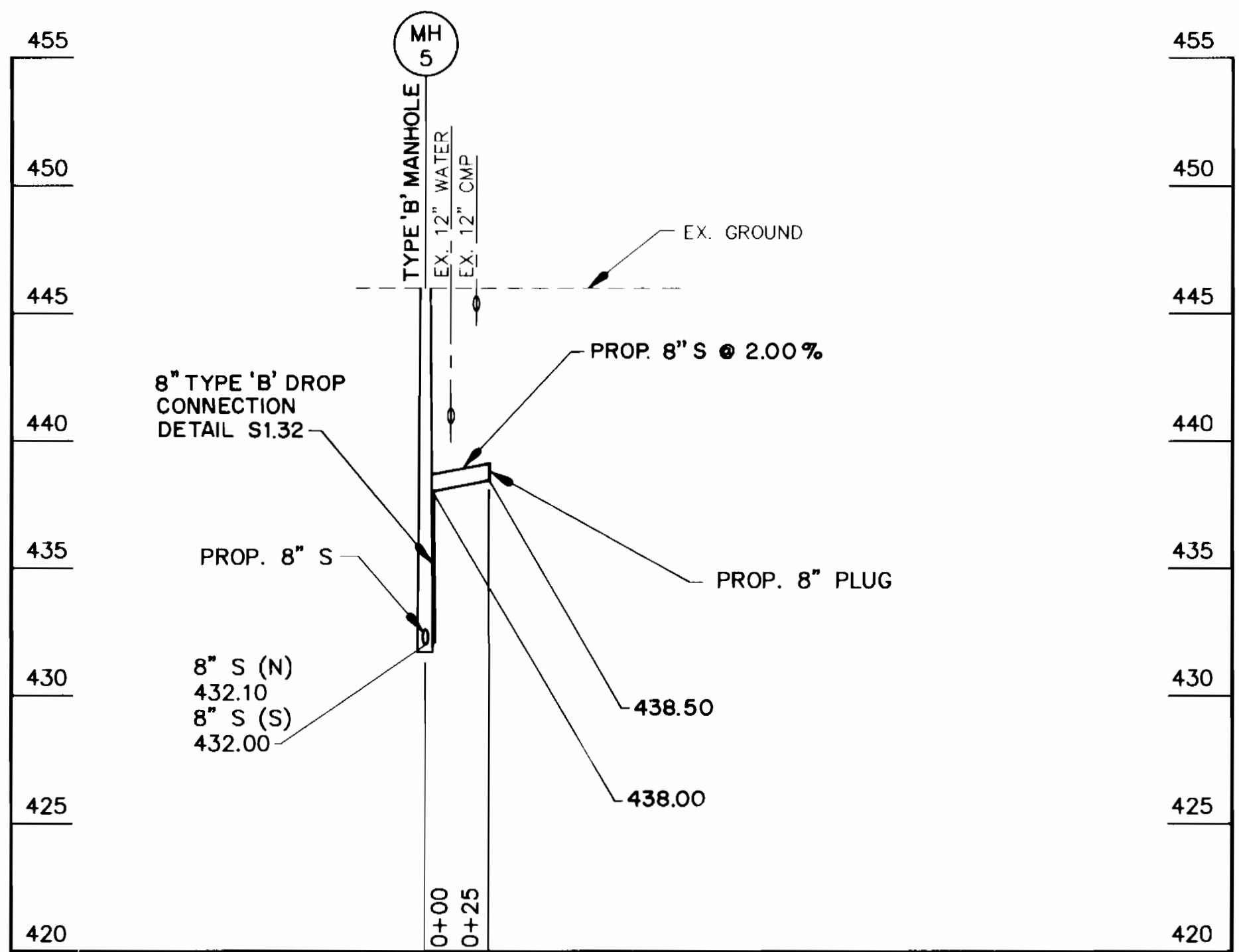
- CONSTRUCTION SPECIFICATIONS**
- FENCING SHALL BE 42" IN HEIGHT AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST MARYLAND STATE HIGHWAY DETAILS FOR CHAIN LINK FENCING. THE SPECIFICATION FOR A 6' FENCE SHALL BE USED, SUBSTITUTING 42" FABRIC AND 6' LENGTH POSTS.
 - CHAIN LINK FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES. THE LOWER TENSION WIRE, BRACE AND TRUSS RODS, DRIVE ANCHORS AND POST CAPS ARE NOT REQUIRED EXCEPT ON THE ENDS OF THE FENCE.
 - FILTER CLOTH SHALL BE FASTENED SECURELY TO THE CHAIN LINK FENCE WITH TIES SPACED EVERY 24" AT THE TOP AND MID SECTION.
 - FILTER CLOTH SHALL BE EMBEDDED A MINIMUM OF 8" INTO THE GROUND.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT BUILDUPS REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE, OR WHEN SILT REACHES 50% OF FENCE HEIGHT
 - FILTER CLOTH SHALL BE FASTENED SECURELY TO EACH FENCE POST WITH WIRE TIES OR STAPLES AT TOP AND MID SECTION AND SHALL MEET THE FOLLOWING REQUIREMENTS FOR GEOTEXTILE CLASS F:

TENSILE STRENGTH	50 LBS/IN (MIN.)	TEST: MSMT 509
TENSILE MODULUS	20 LBS/IN (MIN.)	TEST: MSMT 509
FLOW RATE	0.3 GAL/FT ² /MINUTE (MAX.)	TEST: MSMT 322
FILTERING EFFICIENCY	75% (MIN.)	TEST: MSMT 322

SUPER SILT FENCE
NOT TO SCALE



PROFILE
SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'



PROFILE
SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

STANDARD SEDIMENT CONTROL NOTES

- A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITH: A.) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES AND ALL SLOPES STEPPER THAN 3:1, B.) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THEIR PERIMETER IN ACCORDANCE WITH VOL. 1, CHAPTER 7 OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING AND MULCHING (SEC. G). TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- SITE ANALYSIS:

TOTAL AREA OF SITE	=	1.72	ACRES
AREA DISTURBED	=	1.72	ACRES
AREA TO BE ROOFED OR PAVED	=	1.72	ACRES
AREA TO BE VEGETATIVELY STABILIZED	=	0.02	ACRES
TOTAL CUT	=	0	CU./YDS.
TOTAL FILL	=	0	CU./YDS.
OFF SITE WASTE/BORROW AREA LOCATION:	TO BE DETERMINED		
- ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- ADDITIONAL SEDIMENT CONTROL MUST BE PROVIDED, IF DEEMED NECESSARY BY THEHOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROL, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZING UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY, WHICHEVER IS SHORTER.

PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER THREE INCHES OF SOIL BY RAKING, DISKING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING, IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- PREFERRED** - APPLY 2 TONS PER ACRES DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.)
- ACCEPTABLE** - APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISK INTO UPPER THREE INCHES OF SOIL.

SEEDING - FOR THE PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.05 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, AS POSSIBLE IN THE SPRING. OPTION (2) USE SOD. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.

MULCHING - APPLY 1-1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES 8 FEET OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.

MAINTENANCE - INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

SEQUENCE OF CONSTRUCTION

- OBTAIN A GRADING PERMIT.
- CONTACT HOWARD COUNTY BUREAU OF CONSTRUCTION INSPECTION DIVISION (410-313-1870) PRIOR TO STARTING DATE. (4 DAYS)
- INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS PER SECTION 219 OF THE HOWARD COUNTY DESIGN MANUAL VOL. IV. (2 DAYS)
- EXCAVATE AND INSTALL PROPOSED 8" SEWER MAIN (30 DAYS)
- CONSTRUCT BORE AND JACK CROSSING OF MD 108 (5 DAYS)
- EXCAVATE AND INSTALL PROPOSED SANITARY HOUSE CONNECTIONS (14 DAYS)
- RESTORE DISTURBED AREA AT BORE AND JACK RECEIVING PIT PER HOWARD COUNTY STANDARDS (1 DAY)
- RESTORE TRENCHES TO THEIR ORIGINAL CONDITION AS PER HOWARD COUNTY STANDARDS WITH TEMPORARY PAVING HOWARD COUNTY STANDARD SPECIFICATION. (2 DAYS)
- UPON PERMISSION FROM HOWARD COUNTY SEDIMENT CONTROL INSPECTION, REMOVE SEDIMENT CONTROL DEVICES. (1 DAY)
- INSTALL PERMANENT PAVING PATCH OVER TRENCH. (2 DAYS)

AS-BUILT 4-5-99

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Jan 11, 1998
DIRECTOR OF PUBLIC WORKS

7-1-98
CHIEF, BUREAU OF UTILITIES

7/1/98
CHIEF, BUREAU OF ENGINEERING

1-1-98
CHIEF, WATER & SEWER DIVISION

WALLACE, MONTGOMERY & ASSOCIATES
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD
TOWSON, MARYLAND 21204

DES: WBH	WMA	SOIL CONSERVATION DISTRICT COMMENTS	7/16/98
DRN: RWB	JJS	AS-BUILT REVISION	3/99
CHK: JJS			
DATE: 6/30/98	BY: NO.	REVISION	DATE

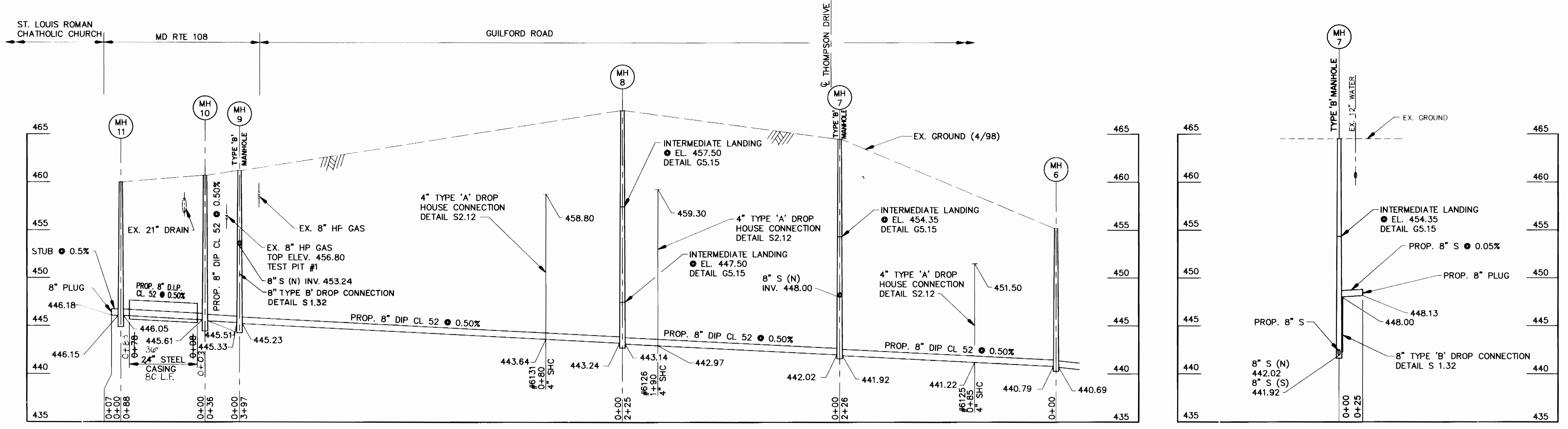
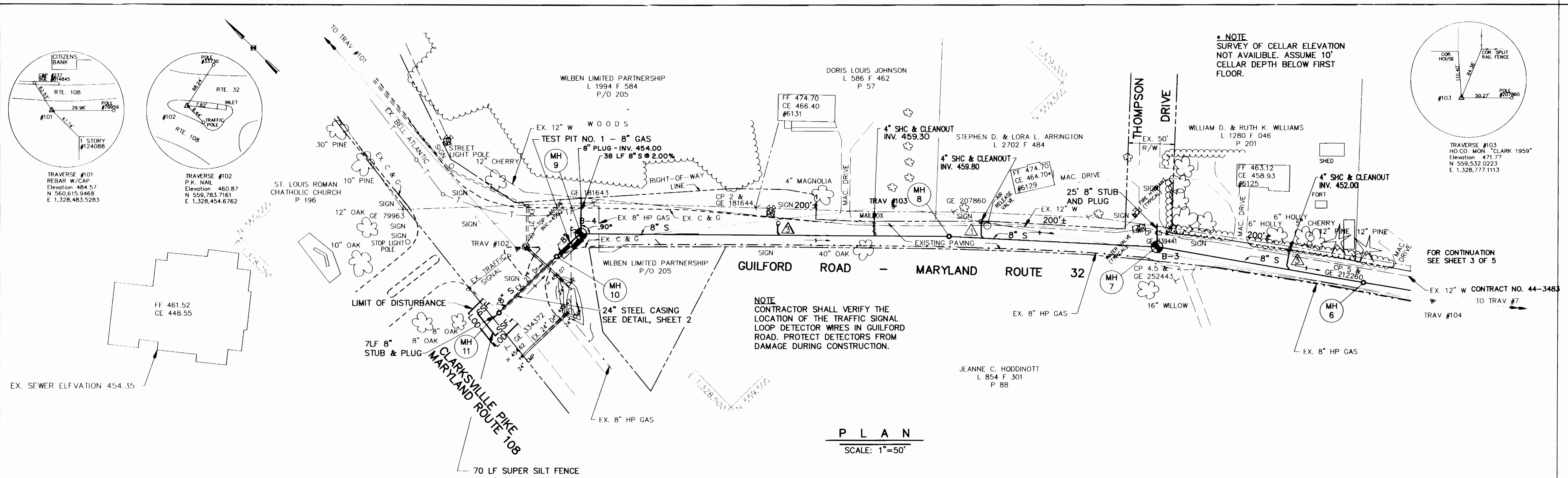
GUILFORD ROAD PLAN AND PROFILE

600' SCALE MAP NO. S-34 & 35 BLOCK NO. 12 & 18

GUILFORD ROAD SEWER MAIN CAPITAL PROJECT S-6210 CONTRACT NO. 30-3690 ELECTION DISTRICT NO. 5 HOWARD COUNTY, MARYLAND

SCALE AS SHOWN

SHEET 3 OF 5



PROFILE
SCALE: HORIZONTAL: 1"=50'
VERTICAL: 1"=5'

AS-BUILT 4-5-99

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

7/1/98
7-1-98

WALLACE, MONTGOMERY & ASSOCIATES
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD
TOWSON, MARYLAND 21204

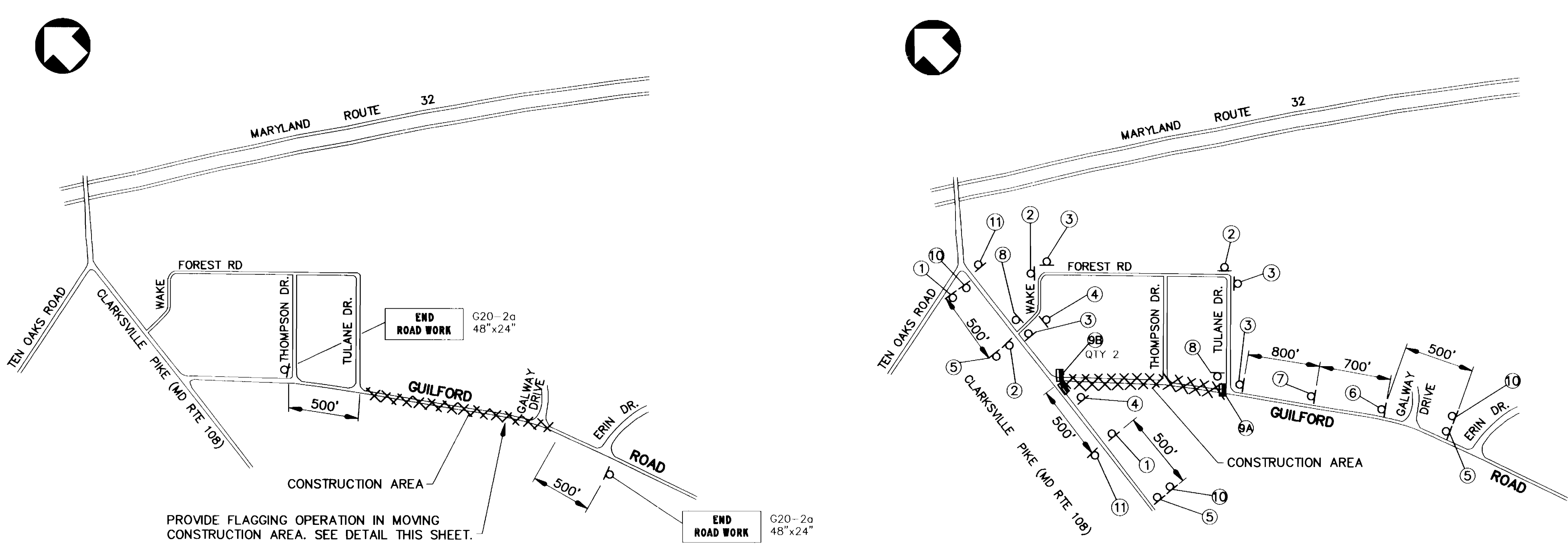
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**GUILFORD ROAD
PLAN AND PROFILE**

600' SCALE MAP NO. S 34 & 35 BLOCK NO. 12 & 18

**GUILFORD ROAD SEWER MAIN
CAPITAL PROJECT S-6210
CONTRACT NO. 30-3690
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND**

SCALE AS SHOWN
SHEET 4 OF 5

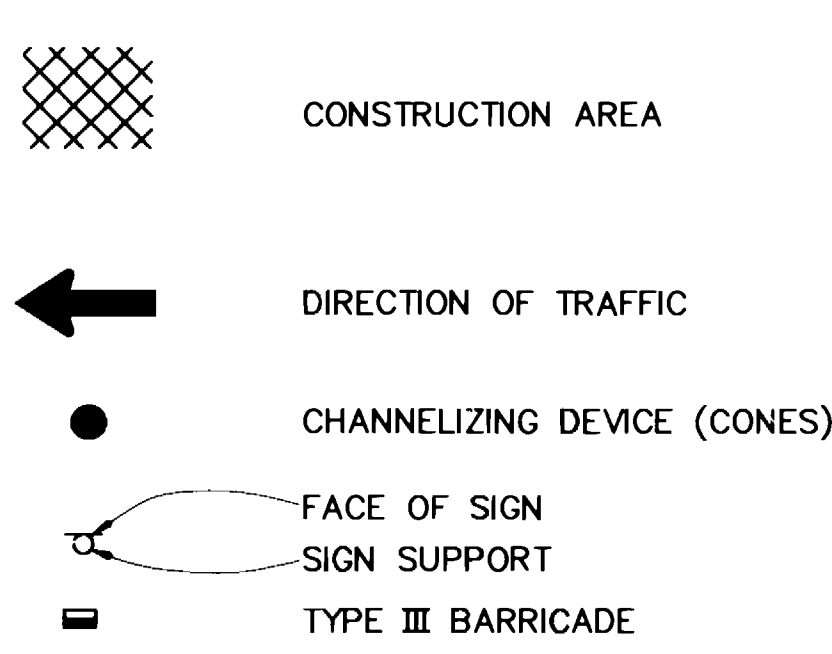


PHASE 1 - PLAN
SCALE: 1" = 500'

PHASE 2 - PLAN
SCALE: 1" = 500'

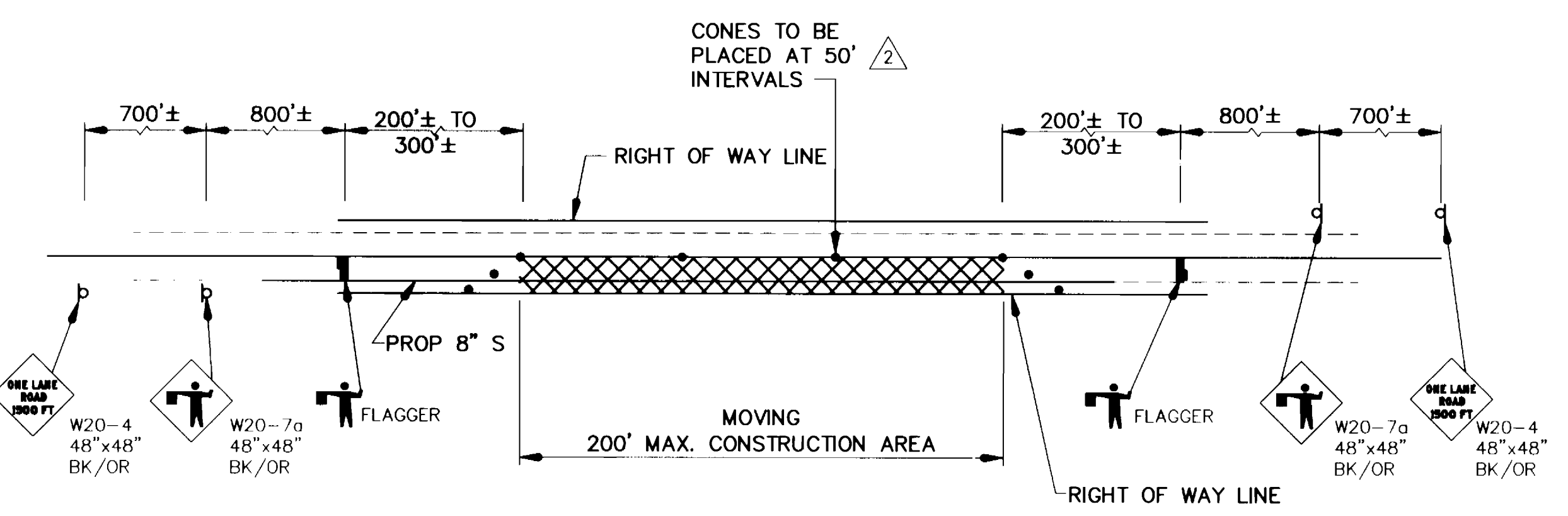
- NOTES**
- DETOUR IN EFFECT FROM 9AM TO 4PM ONLY. ALL OTHER TIMES ROAD WILL BE OPEN TO TWO-WAY TRAFFIC USING STEEL PLATES WHERE NECESSARY. SEE NOTE #5.
 - DURING BORE AND JACK CROSSING OF MD ROUTE 108, PROVIDE 150 LF OF PORTABLE CONCRETE BARRIER AT EDGE OF SHOULDER. COORDINATE LOCATION AND ORIENTATION WITH THE STATE HIGHWAY ADMINISTRATION.
 - WHEN DETOUR IS NOT IN PLACE, ALL DETOUR SIGNS SHALL BE COVERED WITH AN OPAQUE MATERIAL.

SYMBOLS TYPICAL



TYPICAL TRAFFIC CONTROL NOTES

- ALL STEEL PLATES WILL BE PLACED FLUSH WITH ROAD SURFACE OR WEDGED IN A MANNER TO PREVENT ROCKING OR SHIFTING. EACH OF THE FOUR (4) CORNERS WILL BE PINNED OR SPIKED DOWN, SUFFICIENTLY TO PREVENT PLATE MOVEMENT. COLD MIX WILL BE PLACED AROUND ALL SIDES OF THE PLATE TO ALLOW MOTOR VEHICLES TO CROSS WITHOUT MOVING THE PLATE OR DAMAGING THE VEHICLE. THE PLATE(S) WHILE IN PLACE WILL BE MONITORED TWICE A DAY, SEVEN (7) DAYS A WEEK, UNTIL THEY CAN BE REMOVED. NO STEEL PLATES SHALL REMAIN ON THE TRAVELED PORTION OF THE ROADWAY IN EXCESS OF TEN (10) DAYS. ANY WORK REQUIRING ADDITIONAL TIME MUST BE APPROVED IN WRITING BY HOWARD COUNTY AND THE STATE HIGHWAY ADMINISTRATION.
- NORMAL WORK HOURS IN GUILFORD ROAD SHALL BE 9 AM TO 4 PM.
- NORMAL WORK HOURS IN MD ROUTE 108 SHALL BE 9 AM TO 3 PM.
- PLACE SIGNS NUMBER (10) ONE WEEK BEFORE CLOSURE OF GUILFORD ROAD.



TYPICAL FLAGGING OPERATION DETAIL FOR GUILFORD ROAD - MD ROUTE 32
NOT TO SCALE

SIGN SCHEDULE

SIGN NO.	DESCRIPTION	SIZE	REMARKS
1	NOTICE GUILFORD ROAD CLOSED FOLLOW DETOUR	8" LETTERS 6" LETTERS 42"	BLACK/YELLOW BLACK WHITE BLACK/ORANGE NOTE: 1 1/4" BORDER (BLACK) 1 7/8" RADIUS 3/4" BAR
2	GUILFORD RD DETOUR	30"x6" 4" CAP LTRS. M4-9L 30"x24"	BLACK/WHITE BLACK/ORANGE
3	GUILFORD RD DETOUR	30"x6" 4" CAP LTRS. M4-9R 30"x24"	BLACK/WHITE BLACK/ORANGE
4	GUILFORD RD DETOUR	30"x6" 4" CAP LTRS. M4-9THRU 30"x24"	BLACK/WHITE BLACK/ORANGE
5	ROAD WORK 1/2 MILE	W 20-1 36"x36"	BLACK/ORANGE
6	DETOUR 1500 FT	W 20-2 36"x36"	BLACK/ORANGE
7	GUILFORD RD DETOUR	30"x6" 4" CAP LTRS. M4-9R MOD. 30"x24"	BLACK/WHITE BLACK/ORANGE
8	END DETOUR	M 4-8a 24"x18"	BLACK/ORANGE SET 100' EAST OF INTERSECTION
9A	ROAD CLOSED DETOUR	QTY 1 R 11-2 48"x30" M4-10R 48"x18"	BLACK/WHITE PLACED ON TYPE III BARRICADE W/2 HIGH INTENSITY FLASHERS PER BARRICADE
9B	ROAD CLOSED DETOUR	QTY 2 R 11-2 48"x30" M4-10L 48"x18"	BLACK/WHITE PLACED ON TYPE III BARRICADE W/2 HIGH INTENSITY FLASHERS PER BARRICADE
10	NOTICE GUILFORD ROAD WILL BE CLOSED ON OR ABOUT FROM 9 AM TO 4 PM	6" LETTERS 4" LETTERS 42"	BLACK/YELLOW BLACK WHITE NOTE: 1 1/4" BORDER (BLACK) 1 7/8" RADIUS 3/4" BAR
11	END ROAD WORK	G20-2a 48"x24"	BLACK/ORANGE

TYPICAL TRAFFIC CONTROL NOTES

- THE M.S.H.A. AND HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS (410-313-2430) SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK IN ORDER TO SCHEDULE A FIELD INSPECTION OF TRAFFIC CONTROL DEVICES
- ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MARYLAND STATE HIGHWAY ADMINISTRATION.
- NO WORK SHALL BE PERFORMED IN THE ROADWAY FROM 6 AM TO 9 AM & 4 PM TO 7 PM.
- TRAVEL LANES SHALL BE A MINIMUM OF TEN FEET IN WIDTH. WHEN ONLY ONE LANE IS OPEN, A FLAG PERSON(S) PROPERLY TRAINED AND ATTIRED WITH THE APPROPRIATE SIGNING SHALL BE PROVIDED. THE ROADWAY SHOULD BE REOPENED TO TWO LANES IN ACCORDANCE WITH WORK HOUR RESTRICTIONS.
- ALL OPEN TRENCHES SHALL BE CLOSED AT THE END OF EACH DAY. IF STEEL PLATES ARE TO BE USED, APPROPRIATE SIGNING WILL BE REQUIRED. EXISTING REGULATORY WARNING AND GUIDE SIGNS THAT DO NOT APPLY DUE TO TEMPORARY TRAFFIC CONDITIONS WILL BE COVERED AS DIRECTED BY THE ENGINEER.
- ACCESS SHALL BE PROVIDED TO ALL EXISTING DRIVEWAYS AT ALL TIMES. THE CONTRACTOR IS TO ENSURE ONE LANE FLAGGING OPERATION THAT NO VEHICLES EXIT FROM ANY DRIVEWAYS, BETWEEN BOTH FLAG PERSONS, IN THE INCORRECT DIRECTION.
- ALL CONES AND FLAG PERSON(S) SHALL BE MOVED ACCORDINGLY AS CONSTRUCTION PROGRESSES. ALL WORK ZONE SIGNING SHALL BE IN ACCORDANCE WITH THE TYPICAL SIGN PLACEMENT SHOWN ON THE TRAFFIC-CONTROL PLAN AND SHALL NOT OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
- IF TEMPORARY PARKING RESTRICTIONS WILL BE REQUIRED, THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLING SIGNS AND FOR NOTIFYING AT LEAST ONE DAY IN ADVANCE ALL THE AFFECTED RESIDENTS. THE CONTRACTOR MUST CONTACT S.H.A. AND HOWARD COUNTY TRAFFIC ENGINEERING BEFORE ANY PARKING RESTRICTIONS ARE ENACTED.
- CONSTRUCTION VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC OR IMPAIR SIGHT DISTANCE.

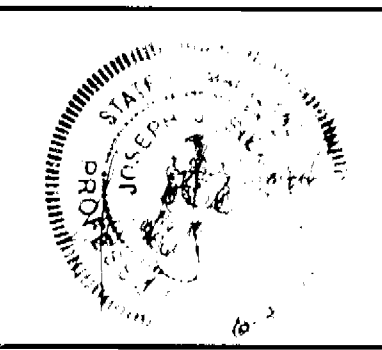
As-Built 4-5-99

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

7/23/98
DATE

7/23/98
DATE

WALLACE, MONTGOMERY & ASSOCIATES
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD
TOWSON, MARYLAND 21284



DES: WBH	WMA	SHA PERMIT CHANGE - ADDENDUM NO. 1	7/21/98
DRN: RWB			
CHK: JJS			
DATE: 6/30/98	BY	NO.	REVISION

TRAFFIC CONTROL PLAN

600' SCALE MAP NO. S.34 & 35 BLOCK NO. 12 & 18

GUILFORD ROAD SEWER MAIN
CAPITAL PROJECT S-6210
CONTRACT NO. 30-3690
ELECTION DISTRICT NO. 5
HOWARD COUNTY, MARYLAND

SCALE AS SHOWN
SHEET 5 OF 5