

AS-BUILT DEC. 9, 1996

QUANTITIES

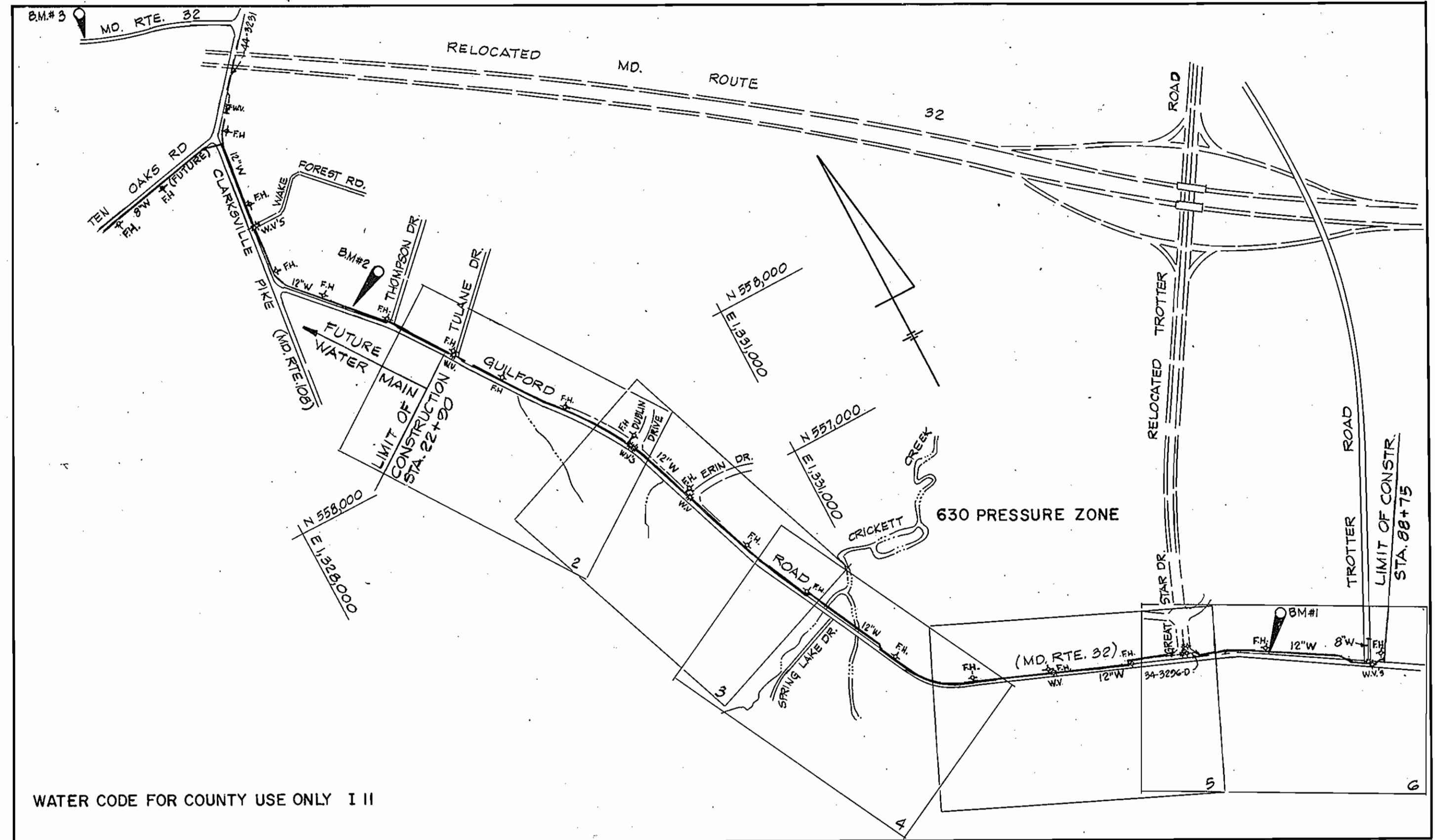
Table with columns: ITEM, BID, AS-BUILT, MATERIAL SUPPLIER. Lists items like 12-IN. WATER MAIN, 8-IN. WATER MAIN, FIRE HYDRANT, etc.

HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS ELLICOTT CITY, MARYLAND 21043

GUILFORD ROAD 12-INCH WATER MAIN EXTENSION FROM TULANE DRIVE TO TROTTER ROAD

GENERAL NOTES

- 1. APPROXIMATE LOCATION OF EXISTING MAINS ARE SHOWN... 2. ALL HORIZONTAL CONTROLS SHOWN ARE BASED ON MARYLAND STATE COORDINATES... 3. ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATUM...



VICINITY MAP SCALE: 1"=600'

WATER MAIN - STAKEOUT DATA

Table with columns: MAIN/FITTING SHEET NO. of, DISTANCE, OFFSET. Lists stationing and offsets for various fittings like tees, valves, and bends.

CAPITAL PROJECT W 8194 CONTRACT NUMBER 44-3299

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 requirements of the 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 Certification of Attendance at a Maryland Department of Environment Approved Training Program for the Control of Sediment and Erosion before beginning the project.

REVIEWED FOR HOWARD CO. S.C.D. AND MEETS TECHNICAL REQUIREMENTS. Includes signatures of R. Engle and M. Selig.

SHEET INDEX: SHEET 1 - TITLE SHEET, SHEETS 2-6 - PLAN & PROFILE, SHEET 7 - DETAILS & DATA SHEET, SHEET 8-9 - TRAFFIC CONTROL PLANS & DETAILS

3299 W-8194 W-1 Guilford Rd. H2O Main / C.P.# W-8194

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND. HICKS ENGINEERING CO., INC. ENGINEERS-SURVEYORS-PLANNERS. 200 E. JOPPA ROAD SUITE 402 TOWSON, MARYLAND 21286. TITLE SHEET. SCALE AS SHOWN. SHEET 1 OF 9.

AS-BUILT DEC. 9, 1996

3299 WS/2 Guilford Rd. H2O Main

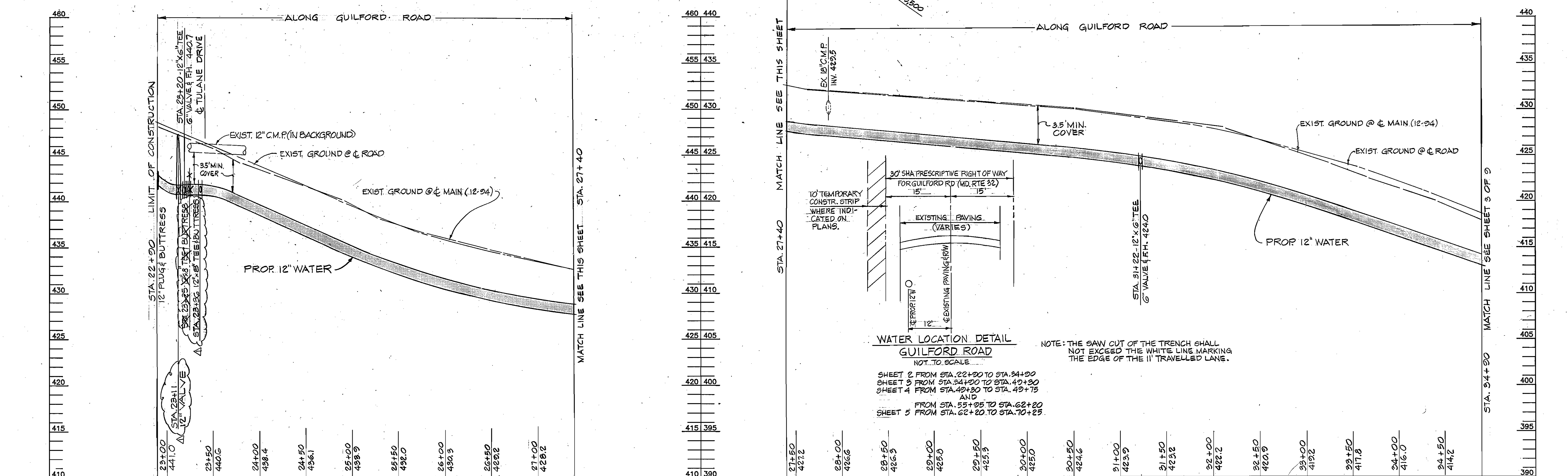
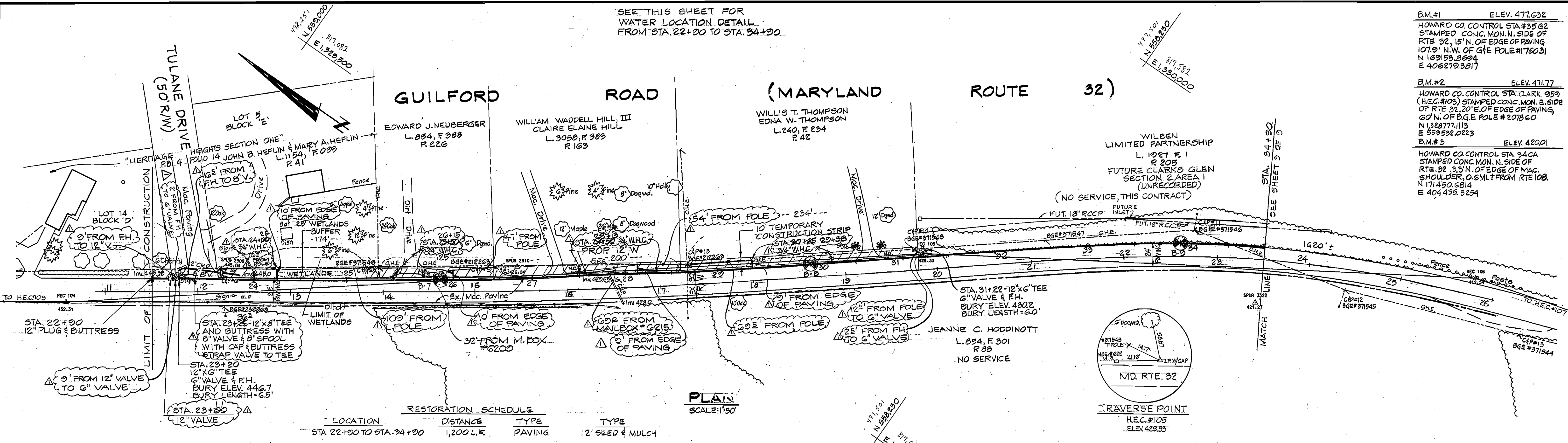
AS-BUILT DEC. 2, 1996

SEE THIS SHEET FOR
WATER LOCATION DETAIL
FROM STA. 22+00 TO STA. 34+00.

B.M.#1 ELEV. 477.632
HOWARD CO. CONTROL STA. #35 G2
STAMPED CONC. MON. N. SIDE OF
RTE 32, 15' N. OF EDGE OF PAVING
107.9' N.W. OF G.F.E. POLE #176031
N 169153.8694
E 406279.3317

B.M.#2 ELEV. 471.77
HOWARD CO. CONTROL STA. CLARK 059
(H.E.C.#103) STAMPED CONC. MON. E. SIDE
OF RTE 32, 20' E. OF EDGE OF PAVING,
60' N. OF B.G.E. POLE # 207860
N 138277.1113
E 559532.0223

B.M.#3 ELEV. 422.01
HOWARD CO. CONTROL STA. 34 CA
STAMPED CONC. MON. N. SIDE OF
RTE 32, 23' N. OF EDGE OF MAC.
SHOULDER, 0.6 MI. FROM RTE 108.
N 171450.6814
E 404435.3254



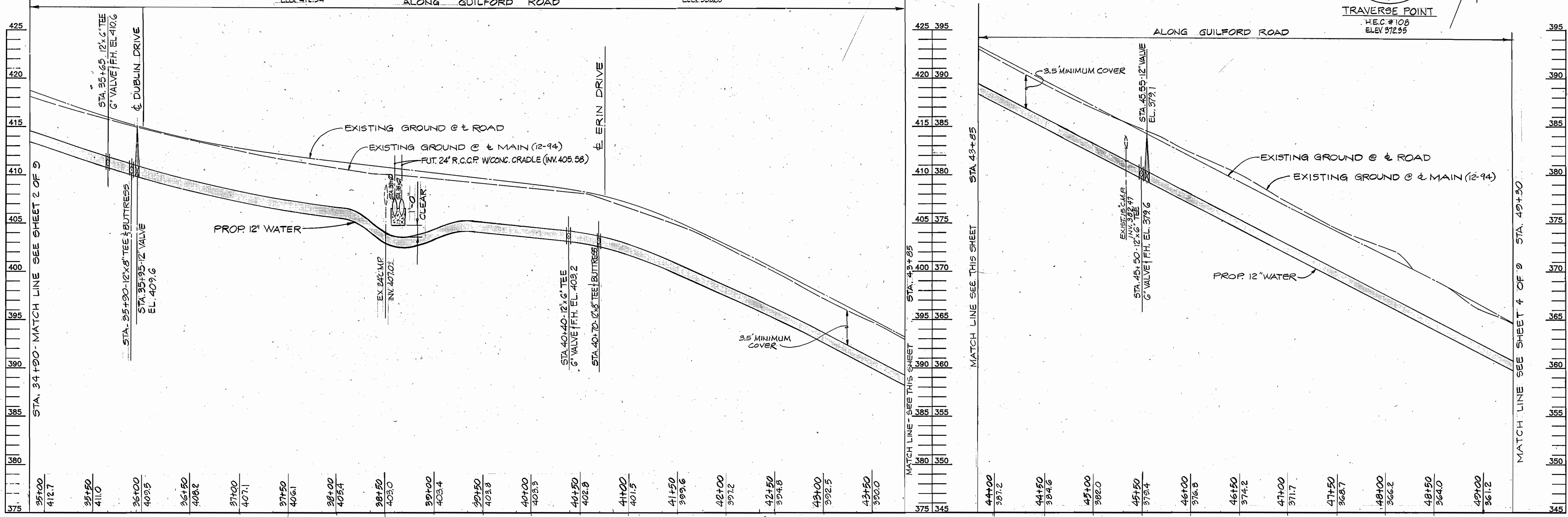
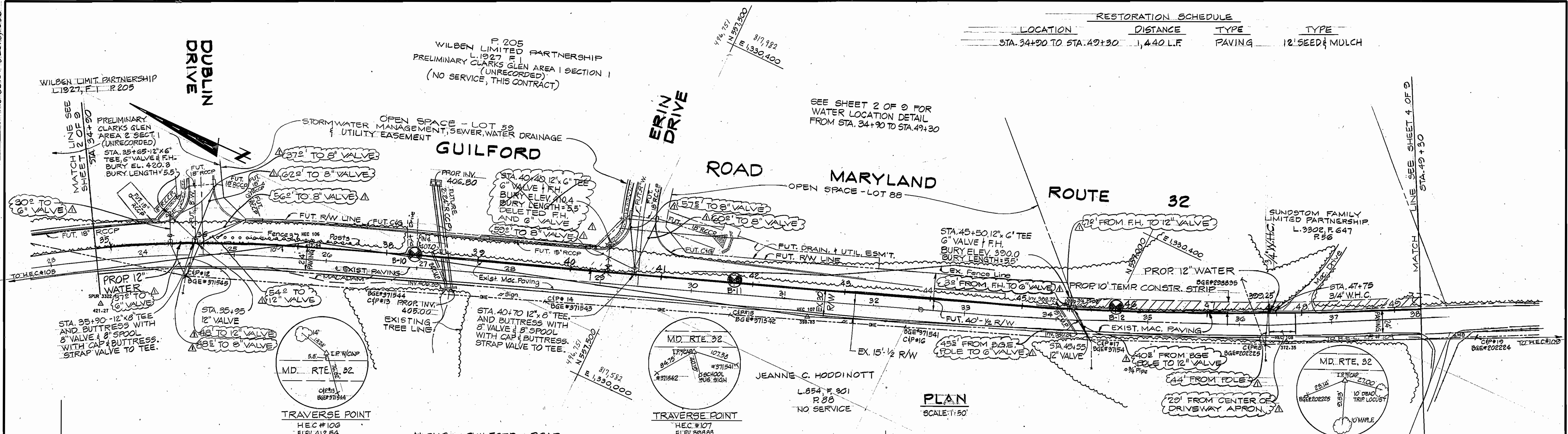
PROFILE
SCALE: HORIZ. 1" = 50'
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James S. Shaw</i> 11/2/95 Chief, Bureau of Engineering: <i>Robert W. Bauman</i> 11-1-95 Chief, Bureau of Utilities: <i>Robert W. Bauman</i> 11-1-95		HICKS ENGINEERING CO., INC. ENGINEERS, SURVEYORS & PLANNERS 200 EAST JOPPA ROAD - SUITE 400 TOWSON, MARYLAND 21286 Chief, Water & Sewer Division: <i>Robert W. Bauman</i> 11-1-95		DES: K.W. G.W.J. AS BUILT 12-9-96 DRN: M.A.B./F.W. CHK: D.E.H. DATE: 6/27/95 BY NO. REVISION DATE		PLAN & PROFILE 600' SCALE MAP NO. W-34/W-35 BLOCK NO. 12/18/19, 20		GUILFORD ROAD WATER MAIN 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT W8194 CONTRACT NO. 44-3299		SCALE AS SHOWN SHEET 2 OF 2	
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AS-BUILT DEC. 2, 1996

3299 ws/3 Guilford Rd. H2O Main

AS-BUILT DEC. 2, 1996

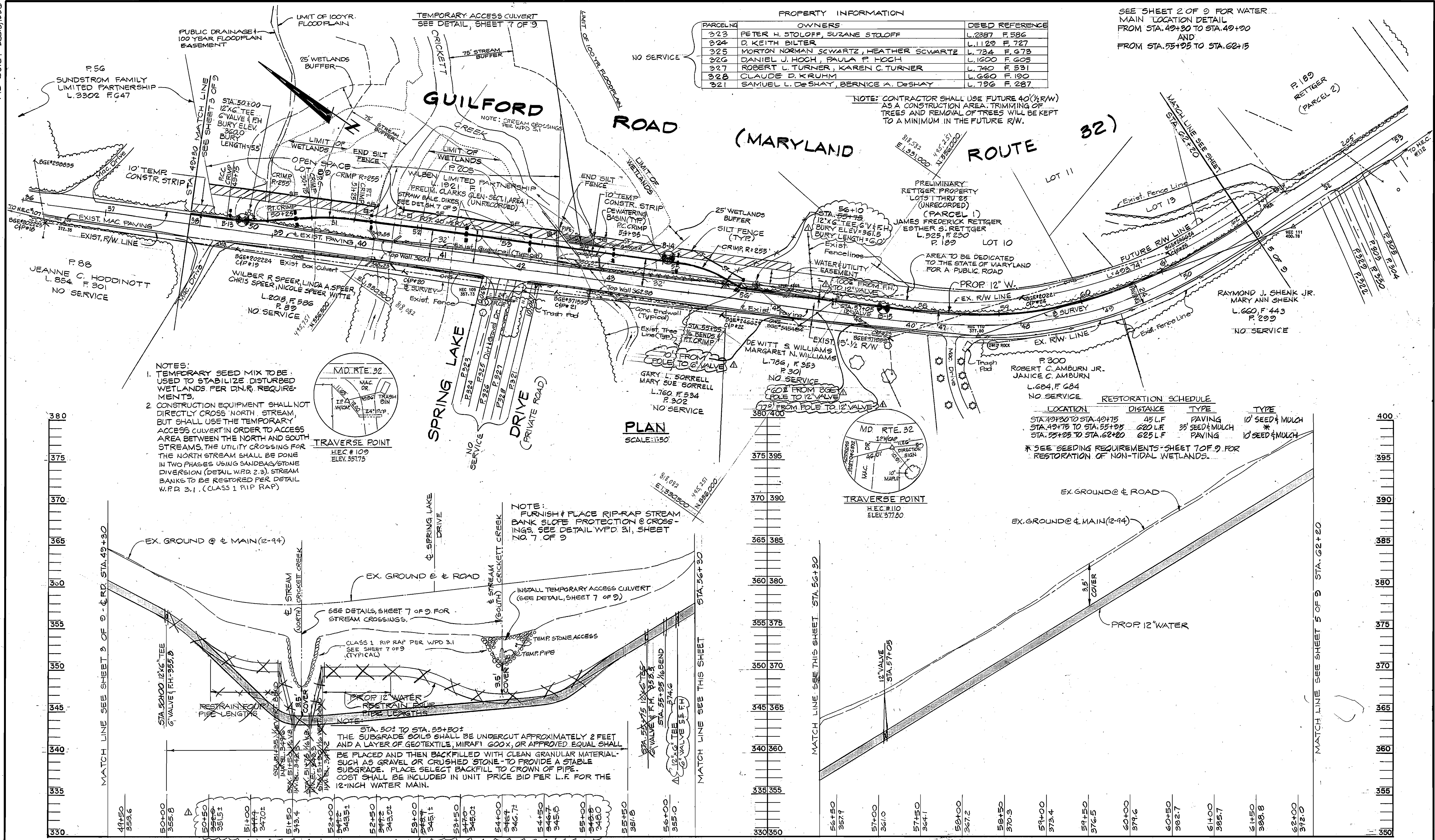


DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James J. Lewis</i> 11/2/95 Chief, Bureau of Utilities: <i>Robert B. Brown</i> 11-1-95		HICKS ENGINEERING CO., INC. ENGINEERS, SURVEYORS & PLANNERS 200 EAST JOPPA ROAD, SUITE 402 TOWSON, MARYLAND 21286 Chief of Engineering: <i>Elizabeth Cole</i> Chief, Water & Sewer Division: <i>Donna L. ...</i> 11-1-95		DES: K.W. G.U.J. AS BUILT 12-3-96 DRN: M.A.B. CHK: D.E.H. DATE: 6/27/95 BY NO. REVISION DATE		PLAN & PROFILE 600' SCALE MAP NO. W-34/W-35 BLOCK NO. 12.18/13.12.20		GUILFORD ROAD WATER MAIN 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT W8194 CONTRACT NO 44-3299		SCALE: AS SHOWN SHEET 3 OF 3	
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AS-BUILT DEC. 2, 1996

3299 WS/4 Guilford Rd H2O Main

AS-BUILT DEC 2, 1996



- NOTES:
- TEMPORARY SEED MIX TO BE USED TO STABILIZE DISTURBED WETLANDS PER D.N.R. REQUIREMENTS.
 - CONSTRUCTION EQUIPMENT SHALL NOT DIRECTLY CROSS NORTH STREAM, BUT SHALL USE THE TEMPORARY ACCESS CULVERT IN ORDER TO ACCESS AREA BETWEEN THE NORTH AND SOUTH STREAMS. THE UTILITY CROSSING FOR THE NORTH STREAM SHALL BE DONE IN TWO PHASES USING SANDBAG/STONE DIVERSION (DETAIL W.P.D. 2.3). STREAM BANKS TO BE RESTORED PER DETAIL W.P.D. 3.1. (CLASS 1 RIP RAP)

LOCATION	DISTANCE	TYPE	TYPE
STA. 49+30 TO STA. 49+75	45 L.F.	PAVING	10' SEED & MULCH
STA. 49+75 TO STA. 55+95	620 L.F.	35' SEED & MULCH	*
STA. 55+95 TO STA. 62+20	625 L.F.	PAVING	10' SEED & MULCH

* SEE SEEDING REQUIREMENTS - SHEET 7 OF 9 FOR RESTORATION OF NON-TIDAL WETLANDS.

NOTE: 12" WATER MAIN PROFILE LOWERED BETWEEN STATION 50+00 TO STATION 55+00.

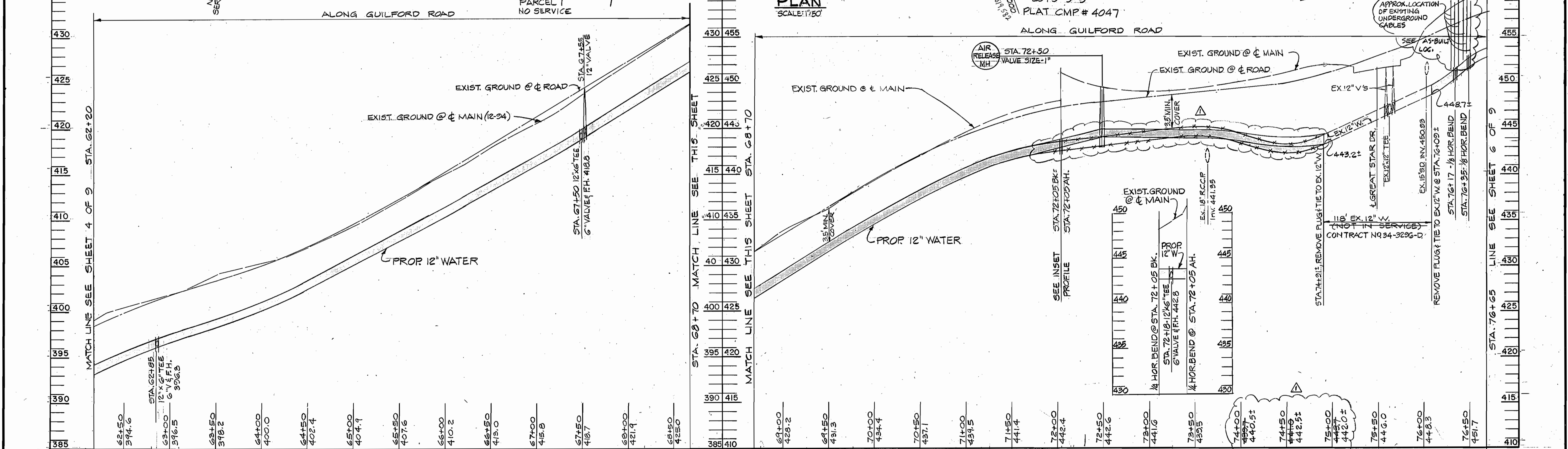
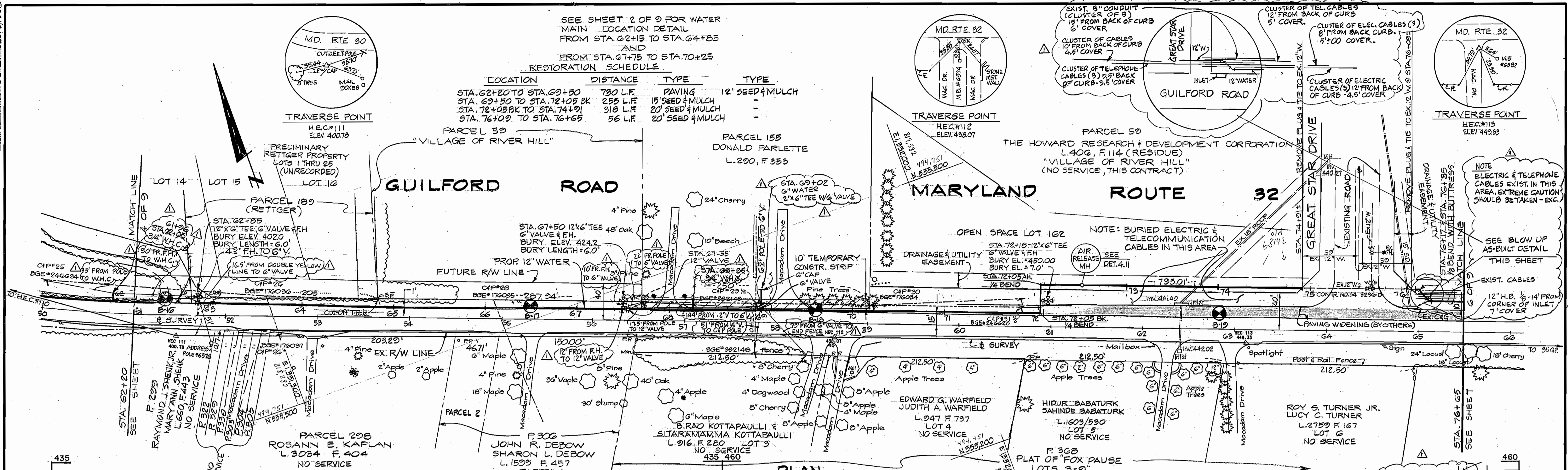
PROFILE
SCALE: HORIZ 1" = 50'
VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND Director of Public Works: <i>James P. Shaw</i> 11/6/95 Chief, Bureau of Engineering: <i>Elizabeth Ober</i> 11/6/95 Chief, Bureau of Utilities: <i>Robert B. Brown</i> 11-1-95 Chief, Water & Sewer Division: <i>Oliver D. ...</i> 11-1-95		HICKS ENGINEERING CO., INC. ENGINEERS, SURVEYORS & PLANNERS 200 EAST JOPPA ROAD - SUITE 402 TOWSON, MARYLAND 21286		DES: K.W. DRN: M.A.B./E.W. CHK: D.E.H. DATE: 6/27/95		AS BUILT 129-22 PLAN & PROFILE 600' SCALE MAP NO. W-24/W-35 BLOCK NO. 1210/13, 19, 20		GUILFORD ROAD WATER MAIN 2 ND ELECTION DISTRICT HOWARD COUNTY, MARYLAND CAPITAL PROJECT W8194 CONTRACT NO. 44-3299		SCALE AS SHOWN SHEET 4 OF 9
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AS BUILT DEC. 2, 1996

3299 WS/5 Guilford Rd H2O Main

AS-BUILT DEC. 9, 1992



STATION	ELEVATION
62+50	394.6
63+00	396.5
63+50	398.2
64+00	400.0
64+50	402.4
65+00	404.9
65+50	407.6
66+00	410.2
66+50	413.0
67+00	415.8
67+50	418.7
68+00	421.4
68+50	425.0
69+00	428.2
69+50	431.3
70+00	434.4
70+50	437.1
71+00	439.5
71+50	441.4
72+00	442.4
72+50	442.6
73+00	441.6
73+50	439.5
74+00	440.5
74+50	442.5
75+00	442.0
75+50	442.0
76+00	442.5
76+50	451.7

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Shaw 11/19/95
DIRECTOR OF PUBLIC WORKS DATE

Robert A. Berman 11-1-95
CHIEF, BUREAU OF UTILITIES DATE

Stratford Allen 11/19/95
CHIEF, BUREAU OF ENGINEERING DATE

Dr. D. L. ... 11-1-95
CHIEF, WATER & SEWER DIVISION DATE

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 402
TOWSON, MARYLAND 21286

Charles H. Hicks

DES: K.W.	E.W.	AS-BUILT	12/9/92
DRN: M.A.B./E.W.			
CHK: D.E.H.			
DATE: 6/27/95	BY NO.	REVISION	DATE

600' SCALE MAP NO. W-34/W-35 BLOCK NO. 12, 13, 19, 20

GUILFORD ROAD WATER MAIN
2 ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT W8194
CONTRACT NO. 44-3299

SCALE AS SHOWN
SHEET 5 OF 9

AS-BUILT DEC. 9, 1992

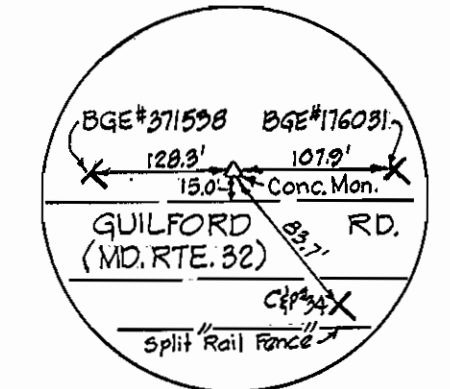
3299 ws/6 Guilford Rd. H₂O Main

AS-BUILT DEC. 9, 1992

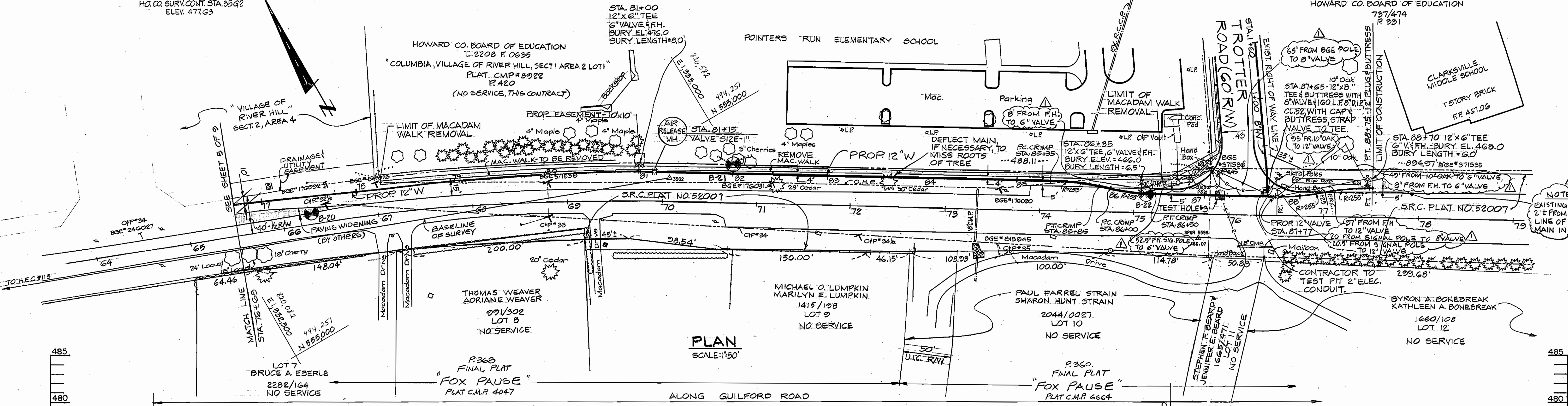
NOTE: EXISTING MACADAM WALK SHALL BE REMOVED AND AREA SEEDED AND MULCHED. COST OF REMOVAL AND DISPOSAL OF OLD MACADAM AND SEEDING AND MULCHING SHALL BE INCLUDED IN THE COST OF THE PIPE.

LOCATION	DISTANCE	TYPE
STA. 76+65 TO STA. 86+00	935 L.F.	20' SEED & MULCH
STA. 86+00 TO STA. 88+25	225 L.F.	5' PAVING
STA. 88+25 TO STA. 88+75	50 L.F.	15' SEED & MULCH
STA. 0+00 TO STA. 0+20	20 L.F.	5' PAVING
STA. 0+20 TO STA. 1+60	140 L.F.	15' SEED & MULCH

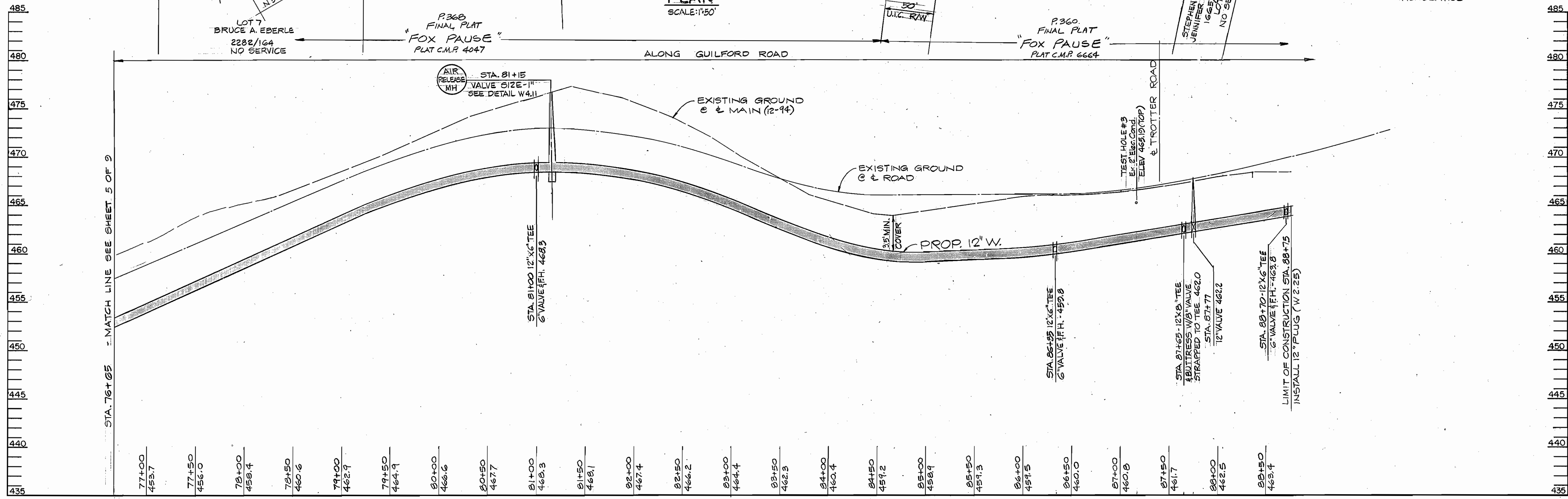
TRAVERSE POINT
HO. CO. SURV. CONT. STA. 35 G2
ELEV. 477.63



GUILFORD ROAD (MARYLAND ROUTE 32)



PLAN SCALE: 1"=50'



PROFILE SCALE: HORZ. 1" = 50' VERT. 1" = 5'

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Lewis 11/6/95
DIRECTOR OF PUBLIC WORKS DATE

Robert J. Baum 11-1-95
CHIEF, BUREAU OF UTILITIES DATE

Elizabeth H. Rubin 11/1/95
CHIEF, BUREAU OF ENGINEERING DATE

Robert J. Baum 11-1-95
CHIEF, WATER & SEWER DIVISION DATE

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 402
TOWSON, MARYLAND 21286

DES: KW	FW	AS-BUILT	1/9/96
DRN: M.A.B./F.W.			
CHK: D.E.H.			
DATE: 6/27/95	BY NO.	REVISION	DATE

600' SCALE MAP NO. W-24/W-95 BLOCK NO. 12, 18, 19, 20

GUILFORD ROAD WATER MAIN
2 ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT W8194
CONTRACT NO. 44-3299

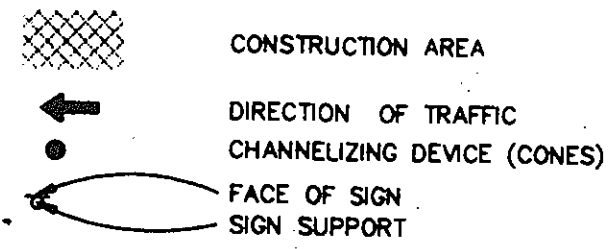
SCALE AS SHOWN
SHEET 6 OF 2

3299 ws/8 Guilford Rd. H2O Main

STEEL PLATES STANDARDS AND SPECIFICATIONS

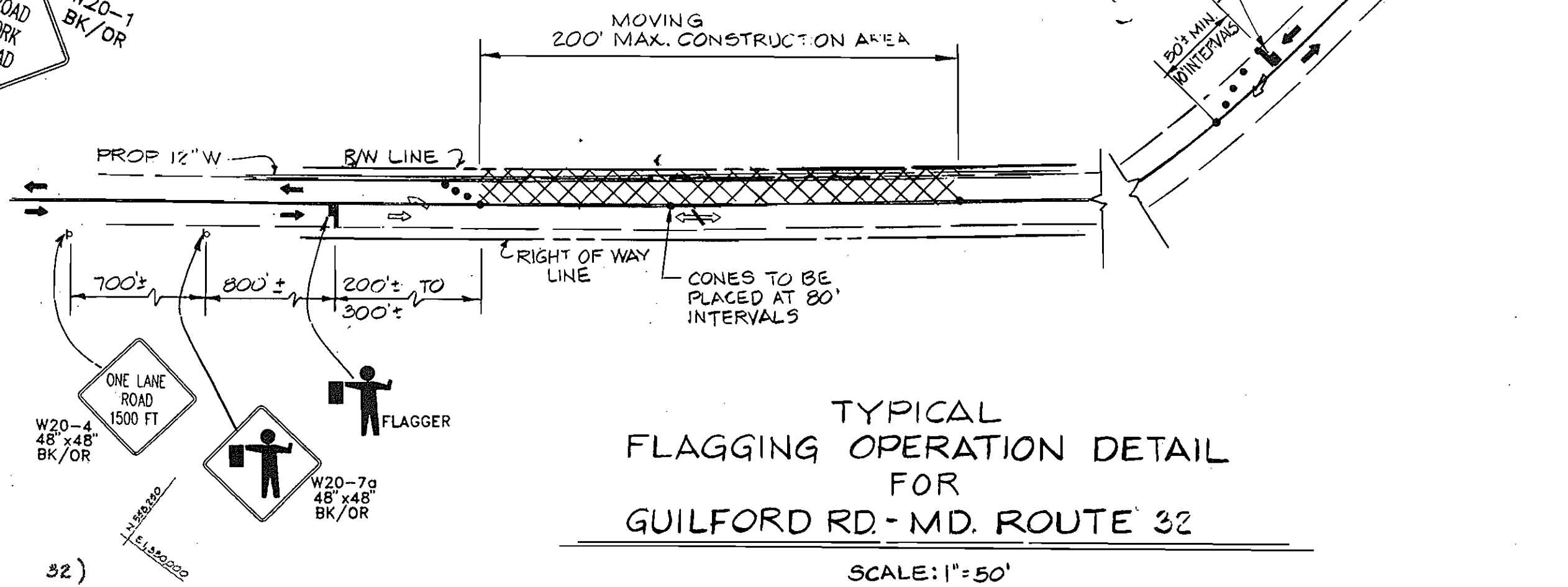
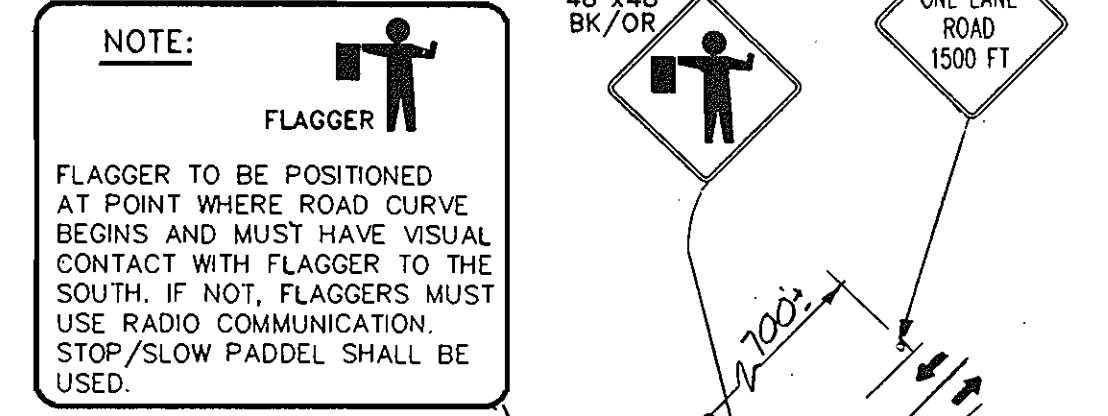
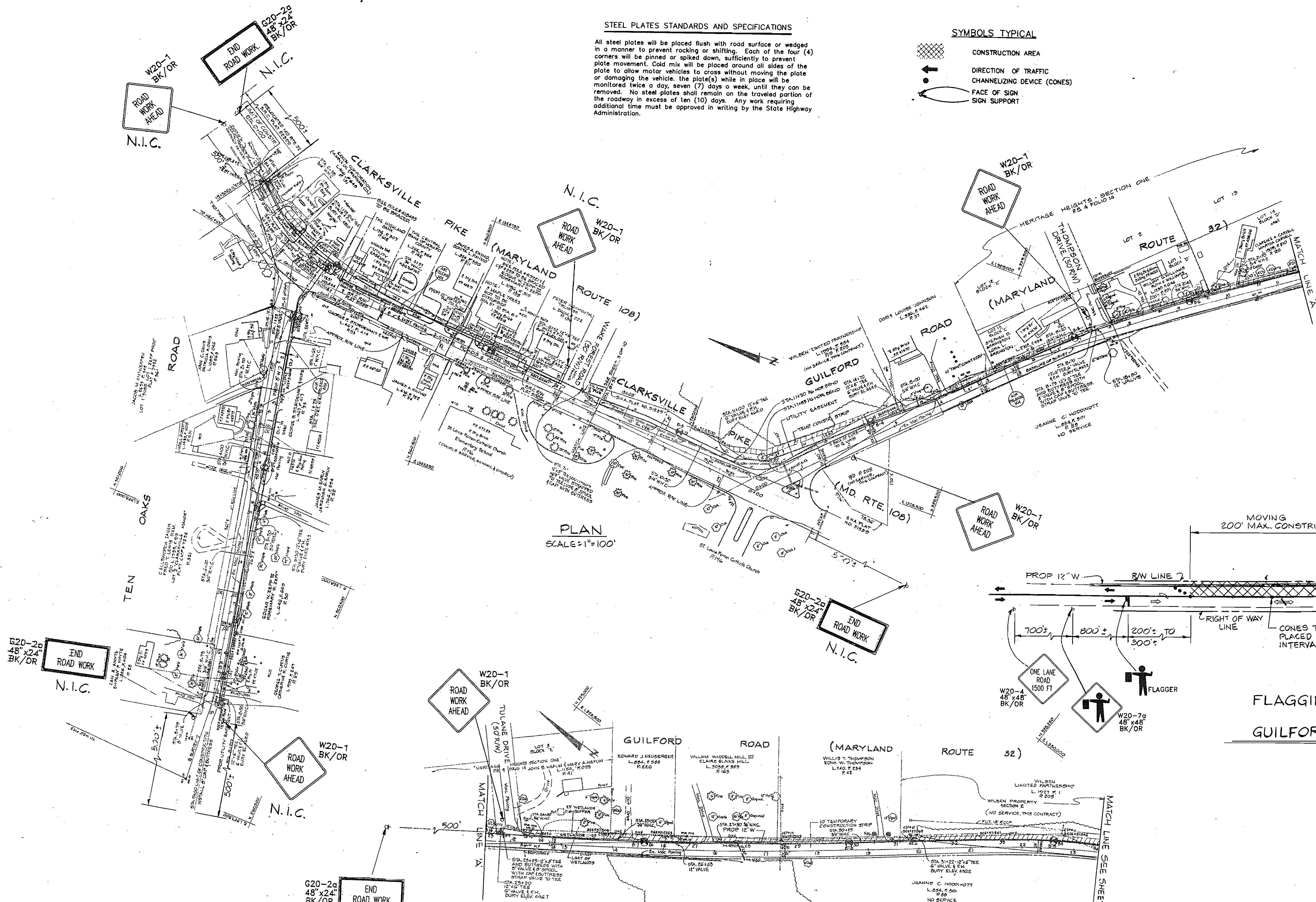
All steel plates will be placed flush with road surface or wedged in a manner to prevent rocking or shifting. Each of the four (4) corners will be pinned or spiked down, sufficiently to prevent plate movement. Cold mix will be placed around all sides of the plate to allow motor vehicles to cross without 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 the State Highway Administration.

SYMBOLS TYPICAL



TYPICAL TRAFFIC CONTROL NOTES

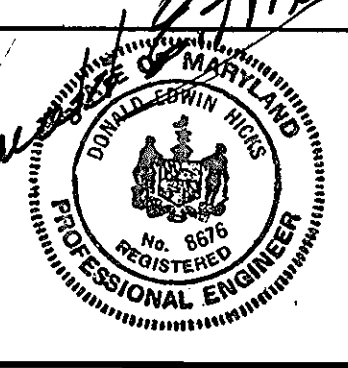
1. THE M.S.H.A. AND HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS SHALL BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK IN ORDER TO SCHEDULE A FIELD INSPECTION OF TRAFFIC CONTROL DEVICES.
2. ALL WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS CONTAINED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MARYLAND STATE HIGHWAY ADMINISTRATION.
3. NO WORK SHALL BE PERFORMED IN THE ROADWAY FROM 6AM TO 9AM & 3PM TO 7PM.
4. TRAVEL LANES SHALL BE A MINIMUM OF TEN FEET IN WIDTH. WHEN ONLY ONE LANE IS OPEN, A FLAG PERSON(S) PROPERLY TRAINED AND ATTIRE WITH THE APPROPRIATE SIGNING SHALL BE PROVIDED. THE ROADWAY SHOULD BE REOPENED TO TWO LANES IN ACCORDANCE WITH WORK HOUR RESTRICTIONS.
5. ALL OPEN TRENCHES SHALL BE CLOSED AT THE END OF EACH DAY. IF STEEL PLATES ARE TO BE USED, APPROPRIATE SIGNING WILL BE REQUIRED.
6. EXISTING REGULATORY WARNING AND GUIDE SIGNS THAT DO NOT APPLY DUE TO TEMPORARY TRAFFIC CONDITIONS WILL BE COVERED WITH THE APPROVAL OF THE ENGINEER.
7. ACCESS SHALL BE PROVIDED TO ALL EXISTING DRIVEWAYS AT ALL TIMES. THE CONTRACTOR IS TO INSURE DURING ONE LANE FLAGGING OPERATION THAT NO VEHICLES EXIT FROM ANY DRIVEWAYS, BETWEEN BOTH FLAG PERSONS, IN THE INCORRECT DIRECTION.
8. ALL CONES AND FLAG PERSON(S) SHALL BE MOVED ACCORDINGLY AS CONSTRUCTION PROGRESSES.
9. ALL WORK ZONE SIGNING SHALL BE IN ACCORDANCE WITH THE TYPICAL SIGN PLACEMENT SHOWN ON THE TRAFFIC-CONTROL PLANS AND SHALL NOT OBSTRUCT EXISTING TRAFFIC CONTROL DEVICES.
10. 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.
11. CONSTRUCTION VEHICLES SHALL NOT BE PARKED IN A MANNER THAT WILL IMPEDE TRAFFIC OR IMPAIR SIGHT DISTANCE.



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Director of Public Works: *James A. [Signature]* 11/2/95
 Chief, Bureau of Engineering: *[Signature]* 11/1/95
 Chief, Water & Sewer Division: *[Signature]* 11-1-95

HICKS ENGINEERING CO., INC.
 ENGINEERS, SURVEYORS & PLANNERS
 200 EAST JOPPA ROAD - SUITE 402
 TOWSON, MARYLAND 21286



DES:				
ORN: F.W.				
CHK:				
DATE:	BY	NO.	REVISION	DATE

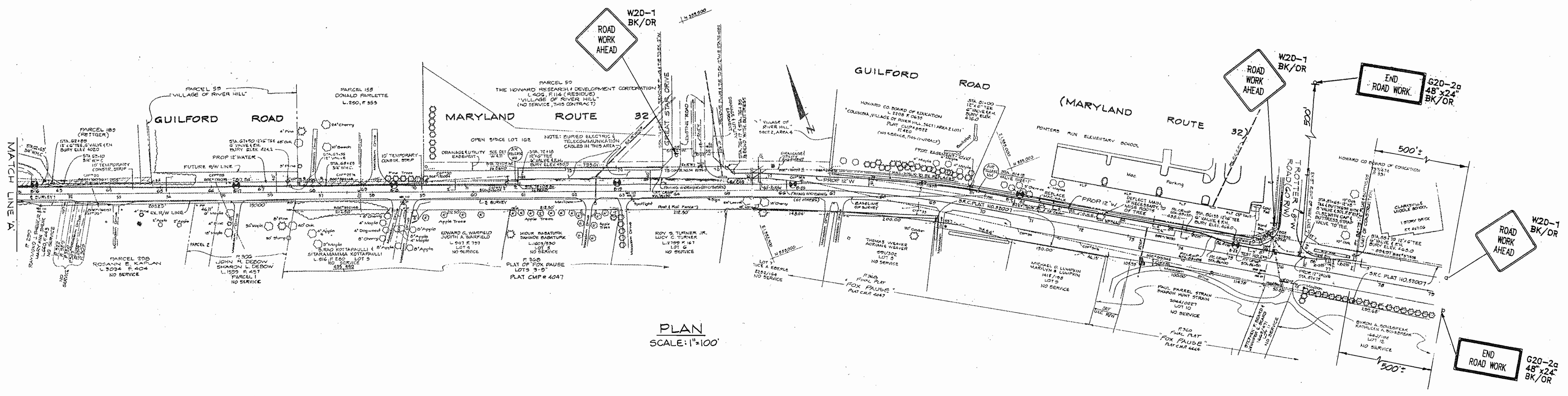
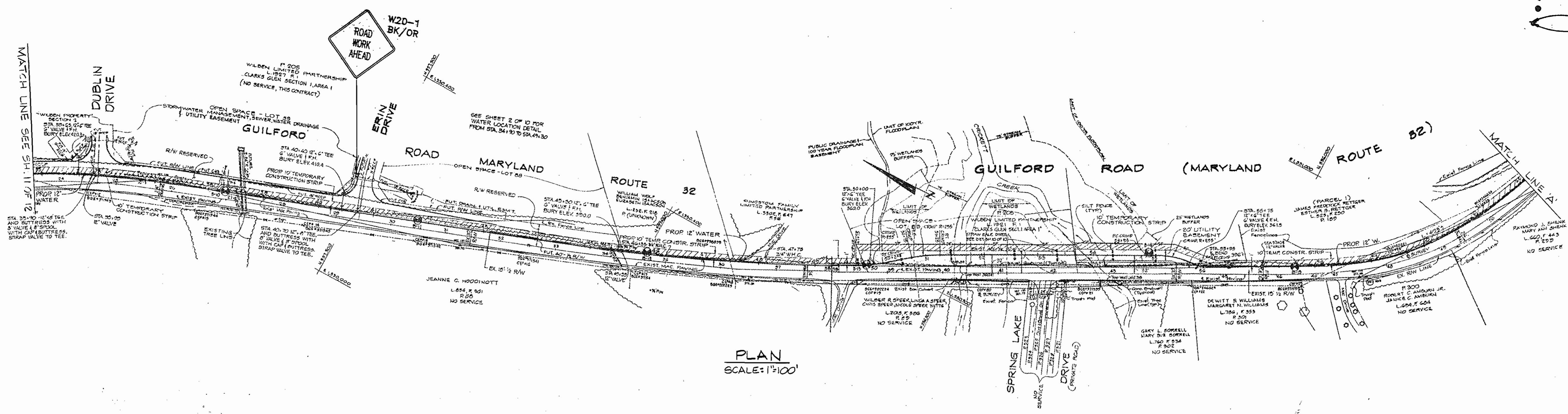
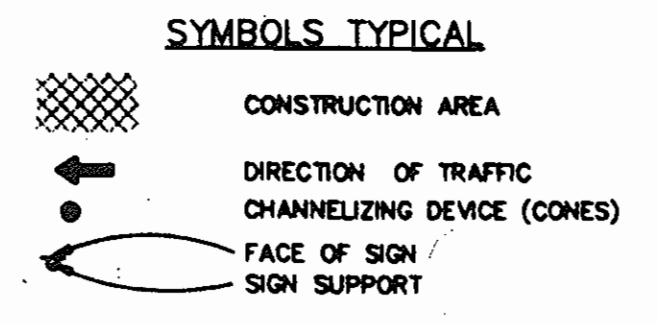
TRAFFIC CONTROL PLANS AND DETAILS

600' SCALE MAP NO. _____ BLOCK NO. _____

GUILFORD ROAD WATER MAIN
 2 ND ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND
 CAPITAL PROJECT W8194
 CONTRACT NO. 44-3299

SCALE AS SHOWN
 SHEET 8 OF 9

3299 ws/9 Guilford Rd. H2O Main



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

James J. Shea 11/2/95
DIRECTOR OF PUBLIC WORKS DATE

Elizabeth Calkins 11/1/95
CHIEF, BUREAU OF ENGINEERING DATE

Robert J. Danner 11-1-95
CHIEF, BUREAU OF UTILITIES DATE

John J. ... 11-1-95
CHIEF, WATER & SEWER DIVISION DATE

HICKS ENGINEERING CO., INC.
ENGINEERS, SURVEYORS & PLANNERS
200 EAST JOPPA ROAD - SUITE 402
TOWSON, MARYLAND 21286

David Z. ...

DES:					
DRN: F.W.					
CHK:					
DATE:	BY	NO.	REVISION	DATE	

TRAFFIC CONTROL PLANS AND DETAILS

600' SCALE MAP NO. _____ BLOCK NO. _____

GUILFORD ROAD WATER MAIN
2 ND ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
CAPITAL PROJECT W8194
CONTRACT NO. 44-3299

SCALE AS SHOWN
SHEET 2 OF 2