

QUANTITIES				
ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER / SUPPLIER
12" D.I.P.	3740'	3,546	TYTOL CL-52	GRIFFIN PIPE PRODUCTS
8" D.I.P.	55'	50	11	" " " "
6" D.I.P.	60'	112	11	" " " "
12" x 12" TEE	3	3	M.J.	UNION FOUNDRY
12" x 8" TEE	3	3	"	" " " "
12" x 6" TEE	7	7	"	" " " "
12" VALVE	7	7	WEDGE GATE	MUELLER CO.
8" VALVE	4	4	"	" " " "
6" VALVE	7	7	"	" " " "
1/2 BEND (12")	2	2	M.J.	UNION FOUNDRY
8" CAP	4	4	M.J.	" " " "
6" FIRE HYDRANT	7	7	RELIATION	MUELLER CO.
1" WHC	170'	200	TYTOL	READING TOBE
12" CAP	3	3	M.J.	UNION FOUNDRY
18" DRAIN W/ 1.5' VAULT	1	1	18" BLOW-OFF 18" x 30"	FORD METER BOX DAVIS COVER

NAME OF UTILITY CONTRACTOR: UTILITIES UNLIMITED
SURVEY AND DRAFTING DIVISION AS-BUILT DATE:

12" MAJOR WATER MAIN EXTENSION

FOR

EMERSON - SECTION 2, PHASE 1

GORMAN ROAD, SKYLARK BOULEVARD & WINTER SUN ROAD

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

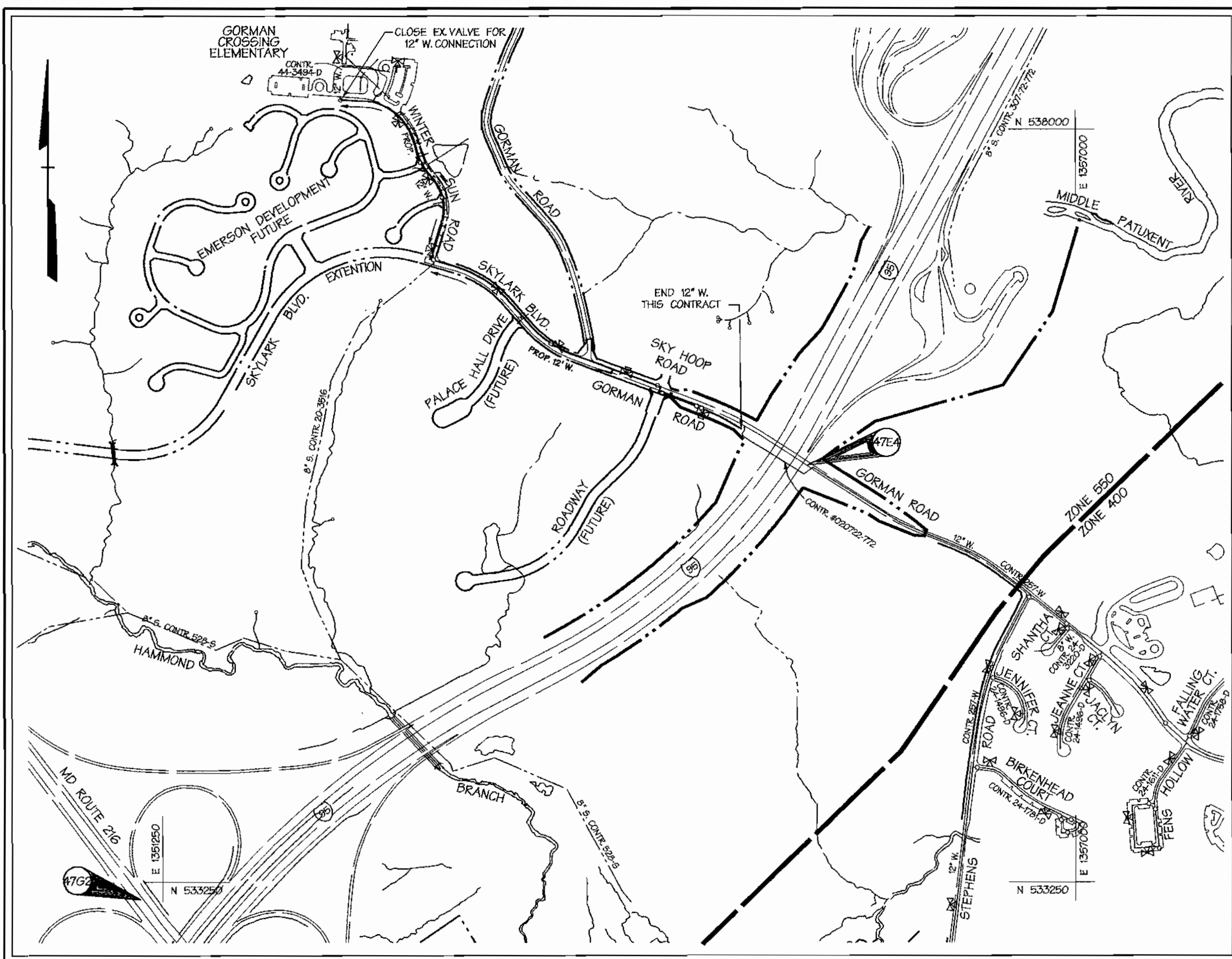
GENERAL NOTES

- PART I - GENERAL**
- APPROXIMATE LOCATION 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 ARE BASED ON MARYLAND STATE COORDINATES (NAD '83).
 - ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
 - ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.
 - CLEAR ALL UTILITIES BY A MINIMUM OF 6'. CLEAR ALL POLES BY 2'-0" MIN. OR TUNNEL AS REQUIRED. THE OWNER HAS CONTACTED UTILITY COMPANIES AND MADE ARRANGEMENTS FOR BRACING OF POLES AS SHOWN ON DRAWINGS. IN EVENT THE CONTRACTOR'S WORK REQUIRES THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO SCHEDULE BRACING OF POLES.
 - 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 HAVE BEEN MADE ON EXISTING UTILITIES, THEY ARE NOTED BY THE 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 LOCATED BY THE CONTRACTOR TWO WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS AT HIS OWN EXPENSE.
 - CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
 - STATE HIGHWAY ADMINISTRATION - (410) 531-5533
 - BALTIMORE GAS & ELECTRIC CO. - CONTRACTOR SERVICES - (410) 850-4620
 - BALTIMORE GAS & ELECTRIC CO. UNDERGROUND DAMAGE CONTROL - (410) 787-9068
 - MISSISSIPPI UTILITY - 1-800-257-7777
 - BELL ATLANTIC - 1-800-446-5266
 - COLONIAL PIPELINE CO. - (410) 795-1390
 - BUREAU OF UTILITIES, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS - (410) 313-4900
 - TREES 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 OTHER ITEMS BID FOR CONSTRUCTION OF THE MAIN.
 - THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-2450 AT LEAST FIVE (5) WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/JACKING OPERATION IN COUNTY ROADS 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 COUNTY CODE.

- PART II - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.50' COVER UNLESS OTHERWISE NOTED.
 - VALVES ADJACENT TO TEES SHALL BE STRAPPED TO TEES.
 - ALL FITTINGS SHALL BE BUTTRESSED OR ANCHORED WITH CONCRETE IN ACCORDANCE WITH THE STANDARD DETAILS UNLESS OTHERWISE PROVIDED FOR ON THE DRAWINGS.
 - FIRE HYDRANTS SHALL BE SET TO THE BURY LINE ELEVATIONS SHOWN ON THE DRAWINGS. ALL FIRE HYDRANTS SHALL BE STRAPPED AND BUTTRESSED WITH CONCRETE IN ACCORDANCE WITH STANDARD DETAILS. SOIL AROUND THE FIRE HYDRANT SHALL BE COMPACTED IN ACCORDANCE WITH SECTION 1000 AND 1005 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL NOT OPERATE ANY WATER MAIN VALVES ON THE EXISTING WATER SYSTEM.
 - ALL WATER HOUSE CONNECTIONS SHALL BE 1" AND INSIDE METER SETTING, UNLESS NOTED OTHERWISE ON THE PLANS OR IN THE SPECIFICATIONS.
 - ALL D.I.P. FITTINGS SHALL BE IN ACCORDANCE WITH AWWA SPECIFICATION C-153 DUCTILE IRON COMPACT FITTINGS, 3 INCH THROUGH 12 INCH FOR WATER AND OTHER LIQUIDS.
 - ALL EXISTING VALVES TO BE CLOSED WHEN CONNECTION TO THE SYSTEM IS MADE.
 - SPRINKLER SYSTEMS FOR ALL TOWNHOUSES OR MULTI-FAMILY DWELLING UNITS SHALL HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 12" WATER MAIN PLAN & PROFILE - GORMAN ROAD
3	PROP. 12" WATER MAIN PLAN & PROFILE - SKYLARK BOULEVARD
4	PROP. 12" WATER MAIN PLAN & PROFILE - WINTER SUN ROAD
5	SEDIMENT CONTROL DETAILS & SPECS.

CONTRACT NO. 44-3870-D



VICINITY MAP

SCALE: 1"=600'

CONTRACT NO. 24-3870-D

TYPE OF BUILDING: SINGLE FAMILY DWELLING	WATER CODE: E-15
NO. OF BUILDINGS: 11 (FUT.)	TEST GRADIENT: 700
NO. OF WATER HOUSE CONNECTIONS: 11 (FUT. DEVELOPMENT)	SEWER CODE: N/A
DRAINAGE AREA:	
TREATMENT PLANT:	

BENCHMARK

DESCRIPTION
COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.
47E4 NORTHING: 163326.2295 EASTING: 413156.2550 ELEVATION: 338.909ft.
47G2 NORTHING: 162440.1212 EASTING: 411523.8279 ELEVATION: 364.210ft.

REVIEWED FOR SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENT

Jim Meyer 8/26/01
SIGNATURE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY CONSERVATION DISTRICT.

John R. Roberts 8/22/01
APPROVED DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND THESE PLANS. - **F-01-136**

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

John R. Roberts 8-15-01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

John R. Roberts 8/24/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft-McCune-Walker, Inc.

A Team of Land Planners, Landscape Architects, Golf Course Architects, Engineers, Surveyors & Environmental Professionals

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3353
Fax 296-4705



DESIGN BY: MAT	
DRAWN BY: KMF	
CHECKED BY: TJR III	
DATE: 6/27/01	
BY NO.	REVISION

AS BUILT

DATE: FEB. 12, 2002

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 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, DATED APRIL, 1994.

John R. Roberts 8/26/01
SIGNATURE DATE

EMERSON

FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-A

TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 44-3870-D

TITLE SHEET

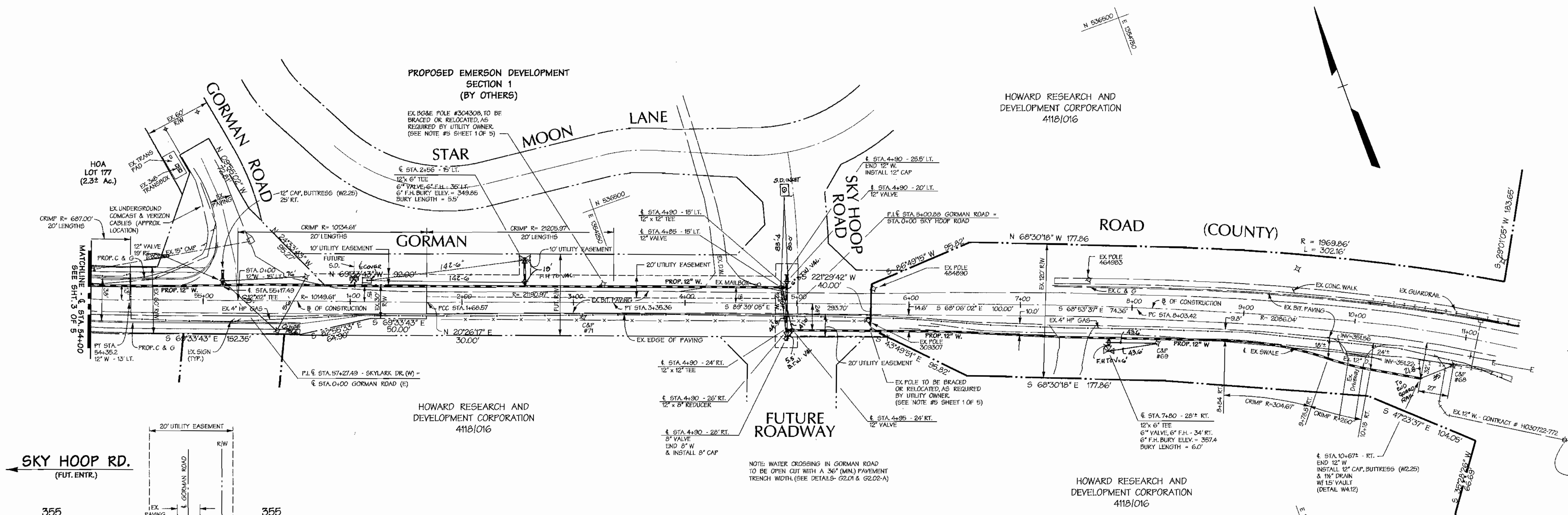
SCALE: 1" = 600'
SHEET 1 of 5

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

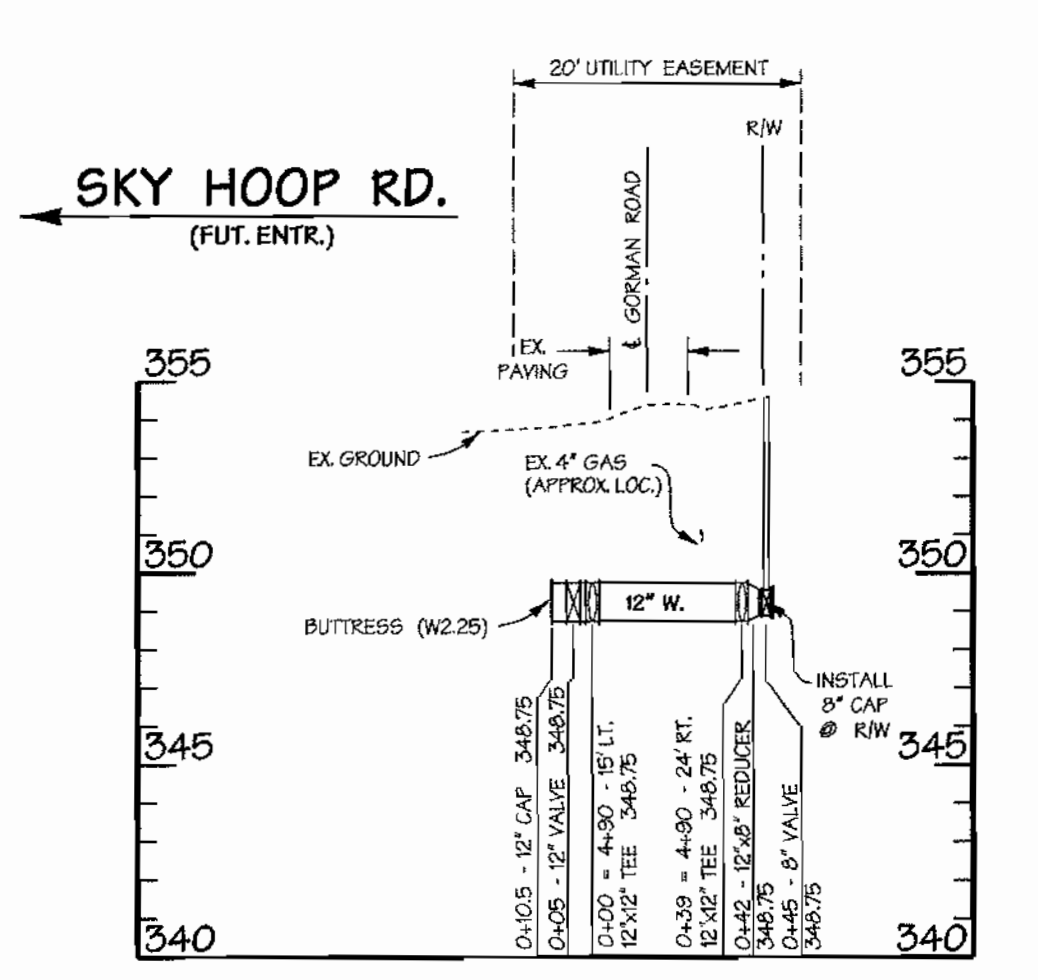
U.S. NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD S.C.D. DATE

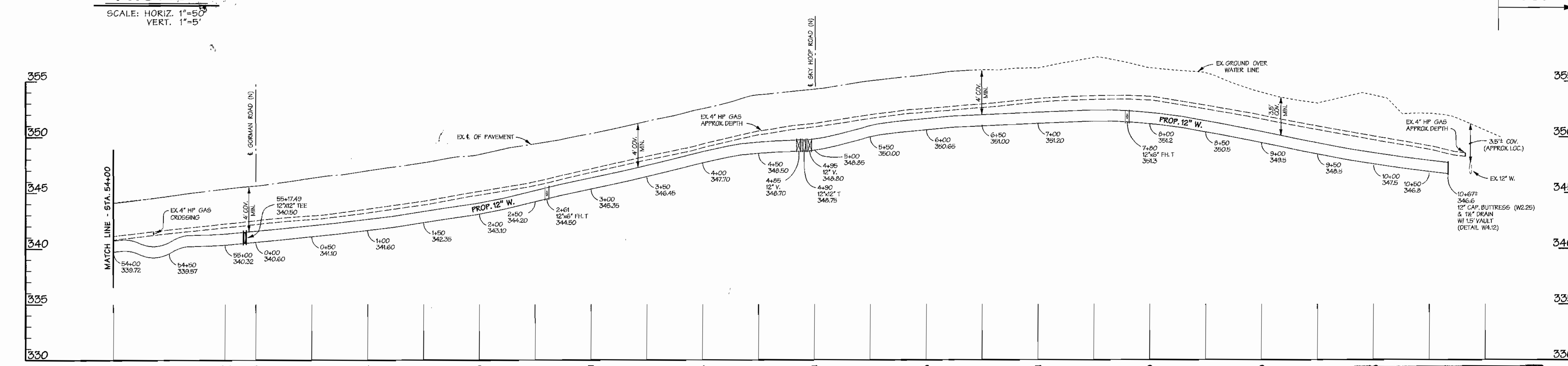


- UTILITY CONSTRUCTION OUTSIDE SEDIMENT CONTROL PRACTICES
1. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON UPSTREAM SIDE OF TRENCH.
 2. IMMEDIATELY FOLLOWING PIPE INSTALLATION, THE TRENCH SHALL BE BACKFILLED, COMPACTED AND IMMEDIATELY STABILIZED (MULCHED, SEEDED, AND/OR SOILED MECHANICAL STABILIZATION) AT THE END OF EACH WORK DAY.
 3. SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISTURBED AREA INTENDED TO REMAIN DISTURBED LONGER THAN ONE (1) WORKING DAY. (SILT FENCE AS PER SCS STANDARD DRAWING - F-10-3)
 4. THE CONTRACTOR SHALL DISTURB AND OPEN TRENCH THE MINIMUM PRACTICAL AREA REQUIRED TO ACCOMPLISH THE WORK DESIGNATED FOR EACH DAY.
 5. ALL SEDIMENT AND EROSION CONTROL PRACTICES AND VEGETATIVE STABILIZATION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS. ANY EROSION AND SEDIMENT CONTROL PRACTICES DAMAGED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.



PLAN
1" = 50'

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



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

AS BUILT
DATE FEB. 12, 2002

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J. R. [Signature]
SIGNATURE

8/7/01
DATE

West Aug 8 08:46:01 2008 9505471na19505471.mxd

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] FOR RMB 8/15/01
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 8/24/01
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

DMW
Daft-McCune-Walker, Inc.

200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 286-3333
Fax 286-4705

A Team of Land Planners,
Landscape Architects,
Golf Course Architects,
Engineers, Surveyors &
Environmental Professionals

DESIGN BY:	MAT				
DRAWN BY:	KMF				
CHECKED BY:	TJR III				
DATE:	6/27/01	K.C.I. 1	ASBUILT DATA ADDED TO PLAN	02/12/02	
BY:	NO.	REVISION	DATE	600 SCALE MAP NO.	BLOCK NO.

12" WATER MAIN
PLAN & PROFILE
GORMAN ROAD
GORMAN ROAD TO I-95

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-A

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 44-3870-D

SCALE:
1" = 50'

SHEET
2 of 5

ENGINEERS 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 STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, DATED APRIL 1984.

Jas
SIGNATURE

0/3/02
DATE

BOARD OF EDUCATION
OF HOWARD COUNTY
35731491

HOWARD RESEARCH AND
DEVELOPMENT CORPORATION
41181016

HOWARD RESEARCH AND
DEVELOPMENT CORPORATION
41181016

HOA
LOT 165
(3.2± Ac.)

HOA
LOT 166
(.30± Ac.)

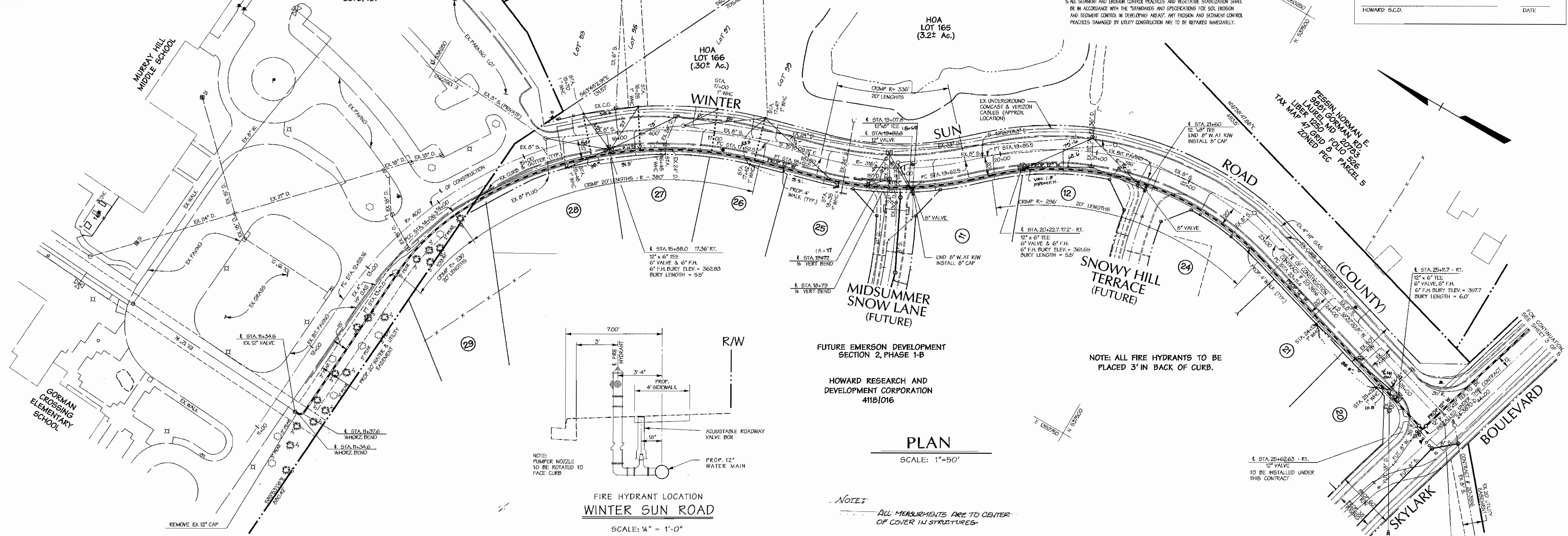
- UTILITY CONSTRUCTION OUTSIDE SEDIMENT CONTROL PRACTICES
1. LOCATED TRENCH MATERIAL SHALL BE PLACED ON UPSTREAM SIDE OF TRENCH.
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 3. SILT FENCE SHALL BE PLACED IMMEDIATELY DOWNSTREAM OF ANY DISBURSED AREA INTENDED TO REMAIN PROTECTED LONGER THAN ONE (1) WORKING DAY (SILT FENCE AS PER 605 STANDARD DRAWING - E-15-3).
 4. THE CONTRACTOR SHALL DISTURB AND OPEN TRENCH THE MINIMUM PRACTICAL AREA REQUIRED TO ACCOMPLISH THE WORK DESIGNATED FOR EACH DAY.
 5. ALL SEDIMENT AND EROSION CONTROL PRACTICES AND RESTORATION STABILIZATION SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN DEVELOPING AREAS. ANY EROSION AND SEDIMENT CONTROL PRACTICES DAMAGED BY UTILITY CONSTRUCTION ARE TO BE REPAIRED IMMEDIATELY.

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

U.S. NATURAL RESOURCE CONSERVATION SERVICE DATE

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

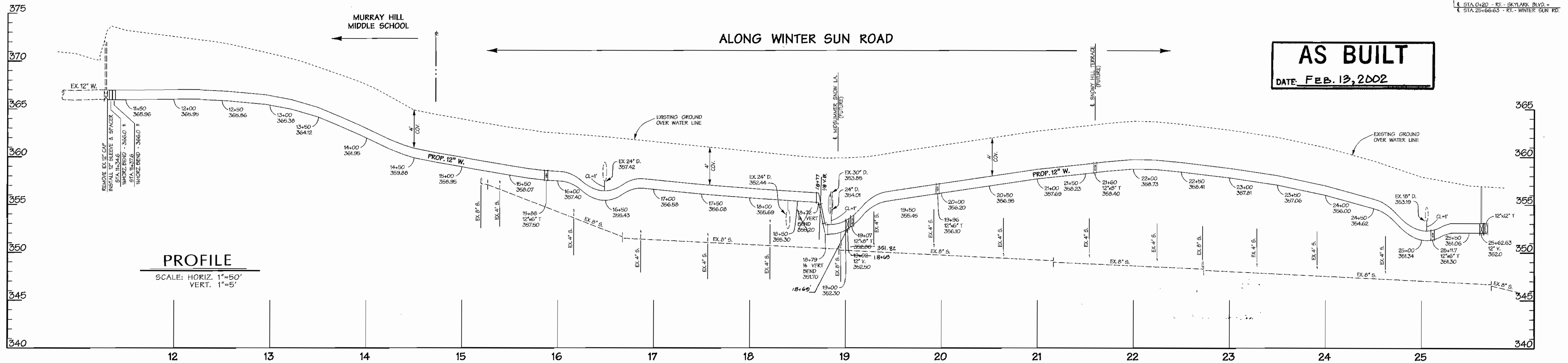
HOWARD S.C.D. DATE



PLAN

SCALE: 1" = 50'

NOTES:
ALL MEASUREMENTS ARE TO CENTER OF COVER IN STRUCTURES.



PROFILE

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

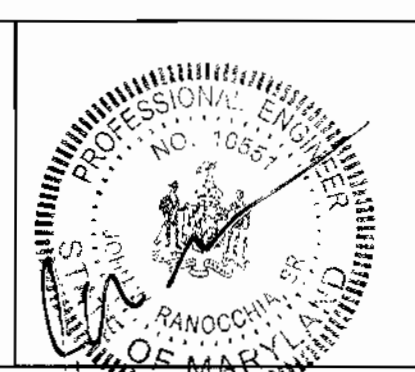
AS BUILT
DATE: FEB. 13, 2002

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

DMW
Duff-McCune-Walker, Inc.

A Team of Land Planners,
Landscape Architects,
Townson, Maryland 21288
(410) 296-3333
Fax 296-4705



DESIGN BY: MAT
DRAWN BY: KMF
CHECKED BY: TJR III
DATE: 6/27/01

NO.	REVISION	DATE
1	ASBUILT DATA ADDED TO PLAN	07/13/02

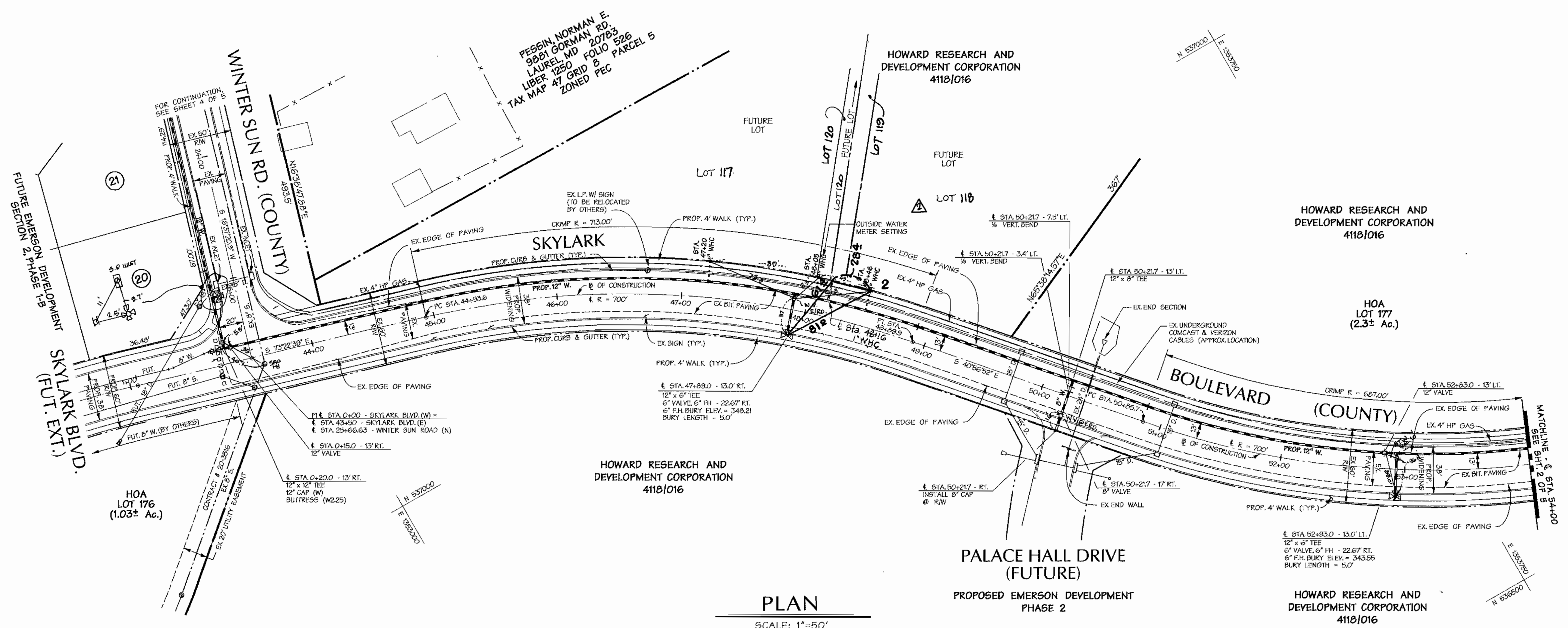
12" WATER MAIN
PLAN & PROFILE
WINTER SUN ROAD
MURRY HILL MIDDLE SCHOOL
TO SKYLARK BLVD.

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-A

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 44-3870-D

SCALE:
1" = 50'

SHEET
4 of 5



PLAN
SCALE: 1"=50'

REVIEWED FOR HOWARD S.C.D. AND MEETS TECHNICAL REQUIREMENTS

U.S. NATURAL RESOURCE CONSERVATION SERVICE _____ DATE _____

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.

HOWARD S.C.D. _____ DATE _____

- UTILITY CONSTRUCTION OUTSIDE SEDIMENT CONTROL PRACTICES
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ENGINEERS CERTIFICATION:

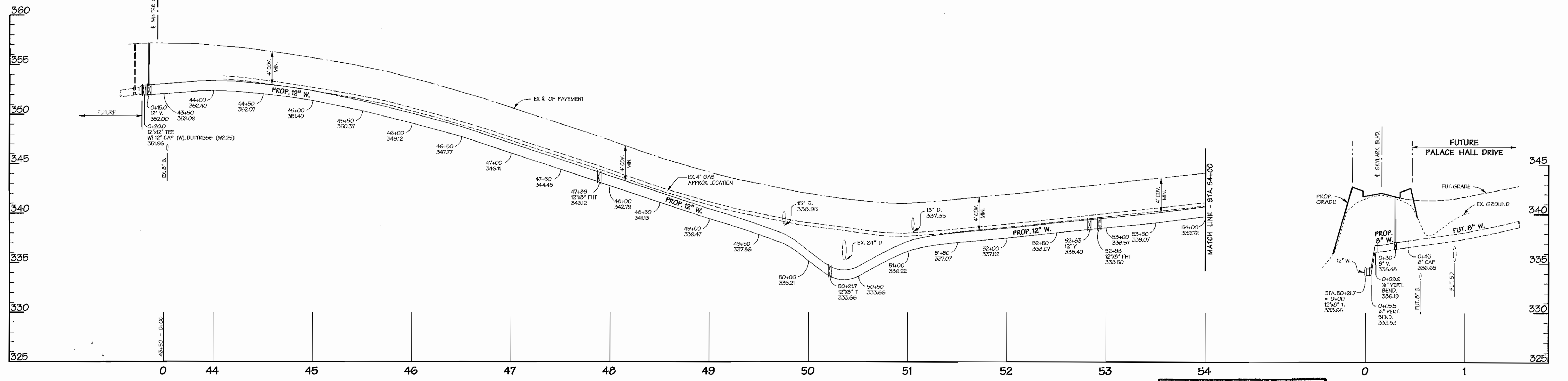
"I CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, DATED APRIL, 1994."

SIGNATURE

2/2/02
DATE

NOTE: FOR CUTTING AND REPAIRING OPENINGS IN EXISTING ROADWAY PAVING SEE STANDARD DETAIL G4.01.

ALONG SKYLARK BOULEVARD



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

AS BUILT
DATE: FEB. 12, 2002

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

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

FOR RMB 8-15-01
CHIEF BUREAU OF UTILITIES - DATE

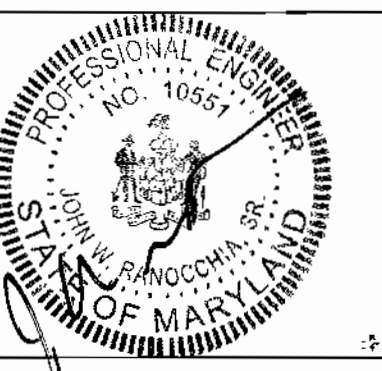
DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

CHIEF - DEVELOPMENT ENGINEERING DIVISION DATE

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200 East Pennsylvania Avenue
Towson, Maryland 21286
(410) 296-3333
Fax 296-4705



DESIGN BY:	MAT				
DRAWN BY:	KMF	C.E.I. 2	AS BUILT DATA ADDED FOR WHC @ STA. 48+	12/15/02	
CHECKED BY:	DMW	DMW	REVISED LOT NUMBERS		
DATE:	TJR III	K.O.I. 1	ADDED 1" WHC @ STA. 48+16		
	6/27/01	BY NO.	AS BUILT DATA ADDED TO PLAN	02/12/02	

12" WATER MAIN
PLAN & PROFILE
SKYLARK BOULEVARD
WINTER SUN ROAD TO GORMAN ROAD

600 SCALE MAP NO. _____ BLOCK NO. _____

EMERSON
FORMERLY KEY PROPERTY
SECTION 2, PHASE 1-A

TAX MAP 47 P10 PARCEL P. 037, P. 3, P. 462
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND
CONTRACT NO. 44-3870-D

SCALE:
1" = 50'

SHEET
3 of 5