

**GENERAL NOTES**

**PART I**

- 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 (NORTH AMERICAN DATUM OF 1983 (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" MINIMUM OR TUNNEL AS REQUIRED. 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). 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 UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION 1-410-531-5533  
 BG&E CO. CONTRACTOR SERVICES 1-410-850-4620  
 BG&E CO. UNDER GROUND DAMAGE CONTROL 1-410-787-9068  
 MISS UTILITY 1-800-257-7777  
 COLONIAL PIPELINE CO. 1-410-795-1390  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES 1-410-313-4900

- 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 THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/LACKING 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'-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- 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 RESTRAINED 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 FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- SPRINKLER SYSTEM FOR ALL TOWNHOUSES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.
- TWIN WATER HOUSE CONNECTION SHALL BE AS PER HOWARD COUNTY STANDARD DETAIL W3.23.

**PART III - SEWER**

- ALL SEWER MAINS SHALL BE DIP AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52, WHERE WATER TIGHT MANHOLE FRAME AND COVER IS USED SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

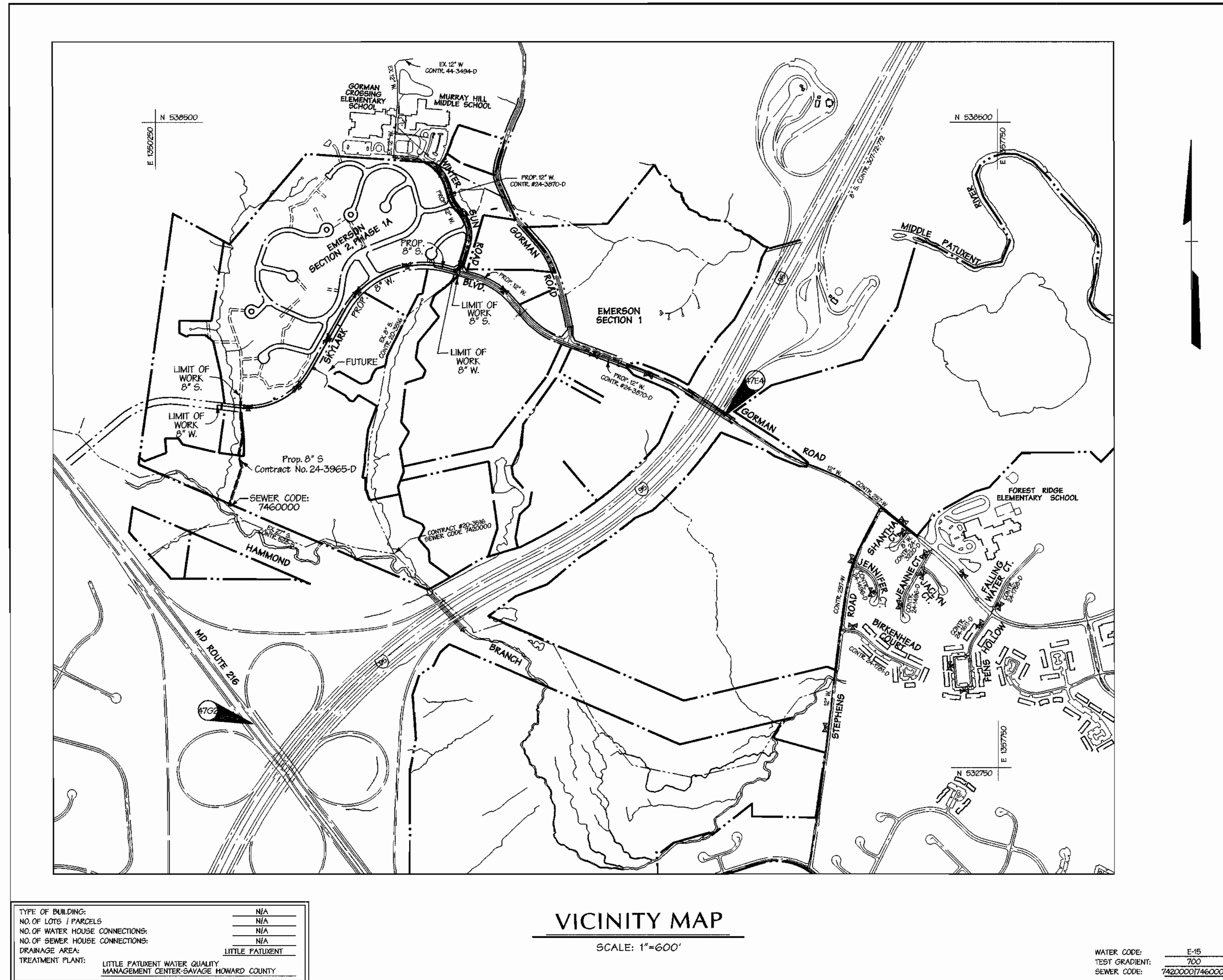
# EMERSON WATER AND SEWER

## SECTION 2, PHASE 1-A

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### CONTRACT NO. 24-3965-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 8" W. & 8" S. PLAN - SKYLARK BOULEVARD & STA. 0+00 - 27+65
3	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD & STA. 0+00 - 17+00
4	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD & STA. 17+00 - 27+65
5	PROP. 8" S. PLAN & PROFILE



ITEM	QUANTITIES ESTIMATED	QUANTITIES AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" P.V.C. SEWER	105'			
8" D.I.P. SEWER	150'			
STD. MH	8			
TYPE "B" DROP MH	1			
ARK. RELEASE MH	-			
4" D.I.P. WATER	-			
6" D.I.P. WATER	120'			
8" D.I.P. WATER	2850'			
8" VALVE	5			
8" VALVE	10			
FIRE HYDRANTS	5			
8" x 8" CROSS	1			
8" x 8" TEE	2			
8" x 6" TEE	5			
8" CAP & BUT.	5			
6" CAP & BUT.	-			
4" CAP & BUT.	-			
12" x 8" RED.	1			
8" x 6" RED.	-			
8" x 4" RED.	-			
NAME OF UTILITY CONTRACTOR _____				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE _____				

**BENCHMARK DESCRIPTION**

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295  
 EASTING: 413136.2550  
 ELEVATION: 335.909ft.

47G2 NORTHING: 162440.1212  
 EASTING: 4118539279  
 ELEVATION: 364.210ft.

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

*Jim Meyers* 8/8/01  
 SIGNATURE DATE

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

*Jim McQuinn* 8/8/01  
 APPROVED DATE  
 HOWARD S.C.D.

TYPE OF BUILDING:	N/A
NO. OF LOTS / PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER-SAVAGE HOWARD COUNTY

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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

*Robert M. Beaman* 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

**DMW**  
 Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue  
 Landscape Architects, Towson, Maryland 21286  
 Engineers, Surveyors & Environmental Professionals  
 MD 296 333.3 Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR			
DATE:	4-26-01	BY	NO.	REVISION

PROPOSED WATER & SEWER TITLE SHEET

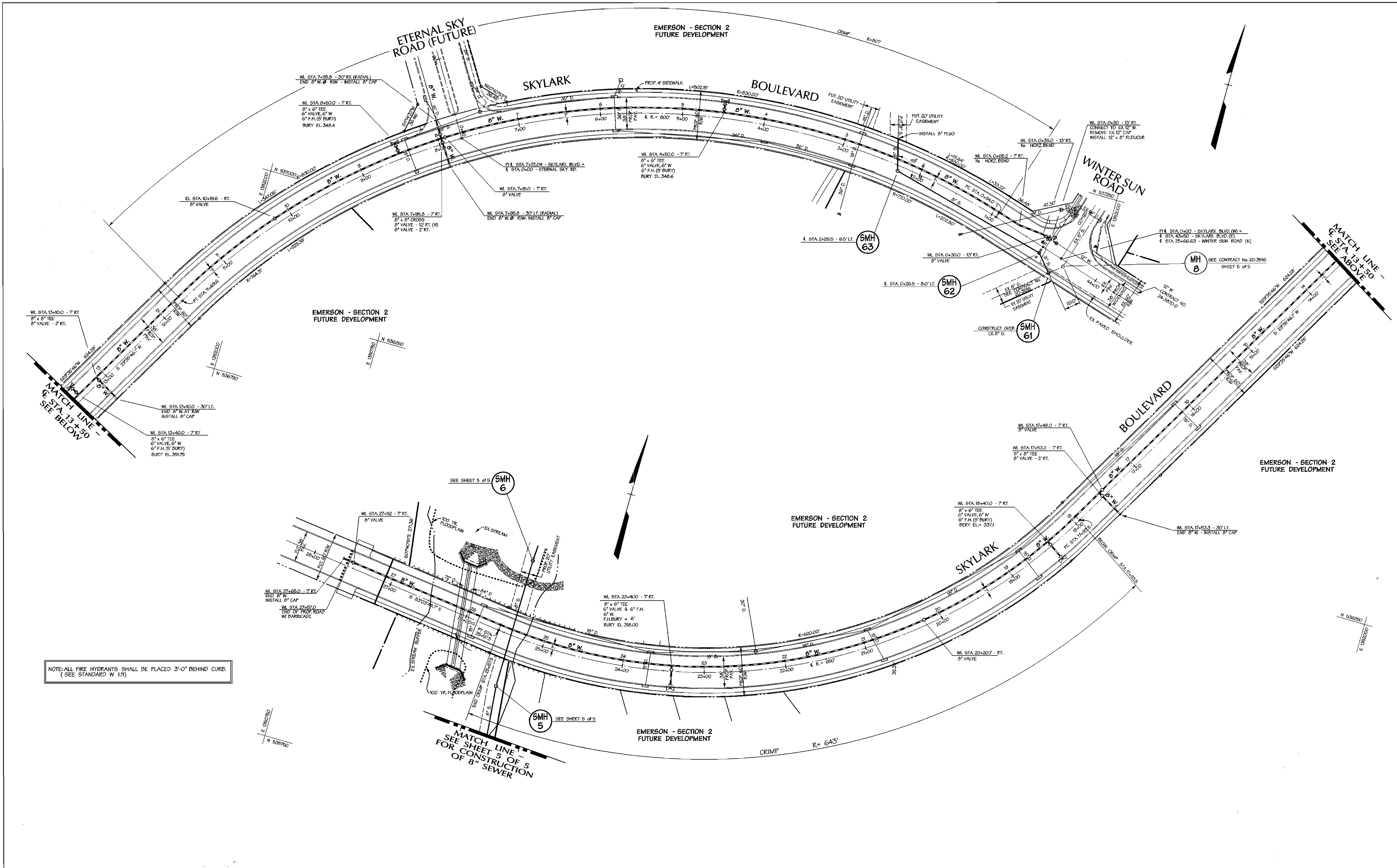
DATE: 600 SCALE MAP NO. 47 BLOCK NO. 7&D

**EMERSON**  
 FORMERLY KEY PROPERTY SKYLARK BLVD.  
 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. 24-3965-D

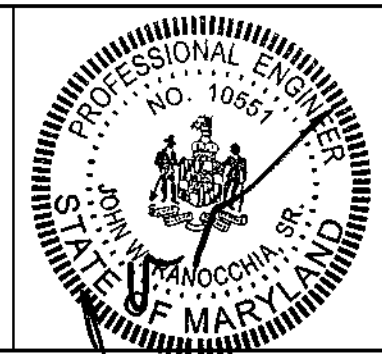
SCALE: AS SHOWN  
 SHEET 1 of 5



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**DMW**  
Daft · McCune · Walker, Inc.  
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
200 East Pennsylvania Avenue  
Towson, Maryland 21286  
410 296 3333  
Fax 296 4705



DESIGN BY:	
MAT	
DRAWN BY:	
KMF	
CHECKED BY:	
TJR	
DATE:	
4-26-01	
BY NO.	
REVISION	
DATE	

PROPOSED 8" WATER & 8" SEWER  
SKYLARK BOULEVARD - STA. 0+00 - 27+65

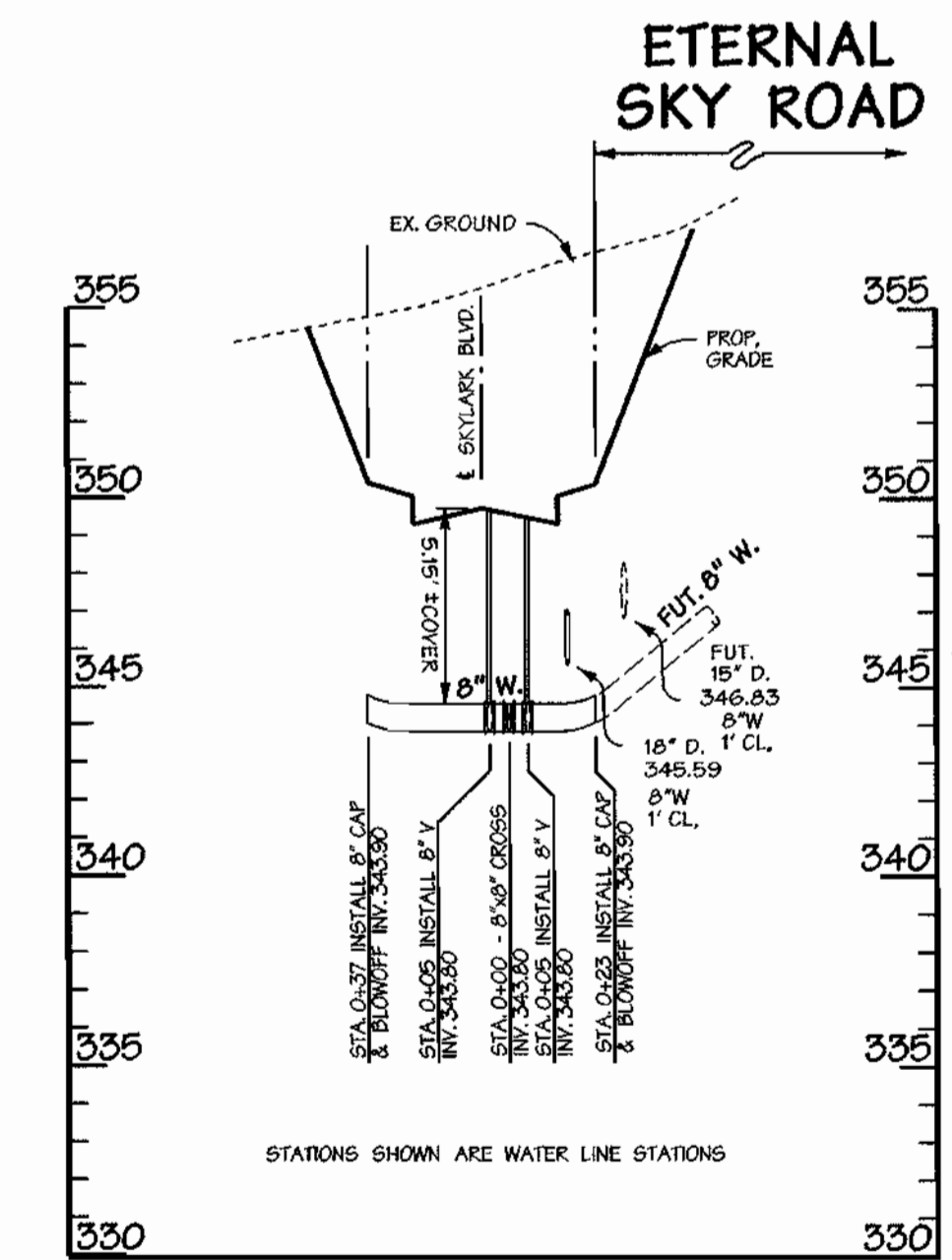
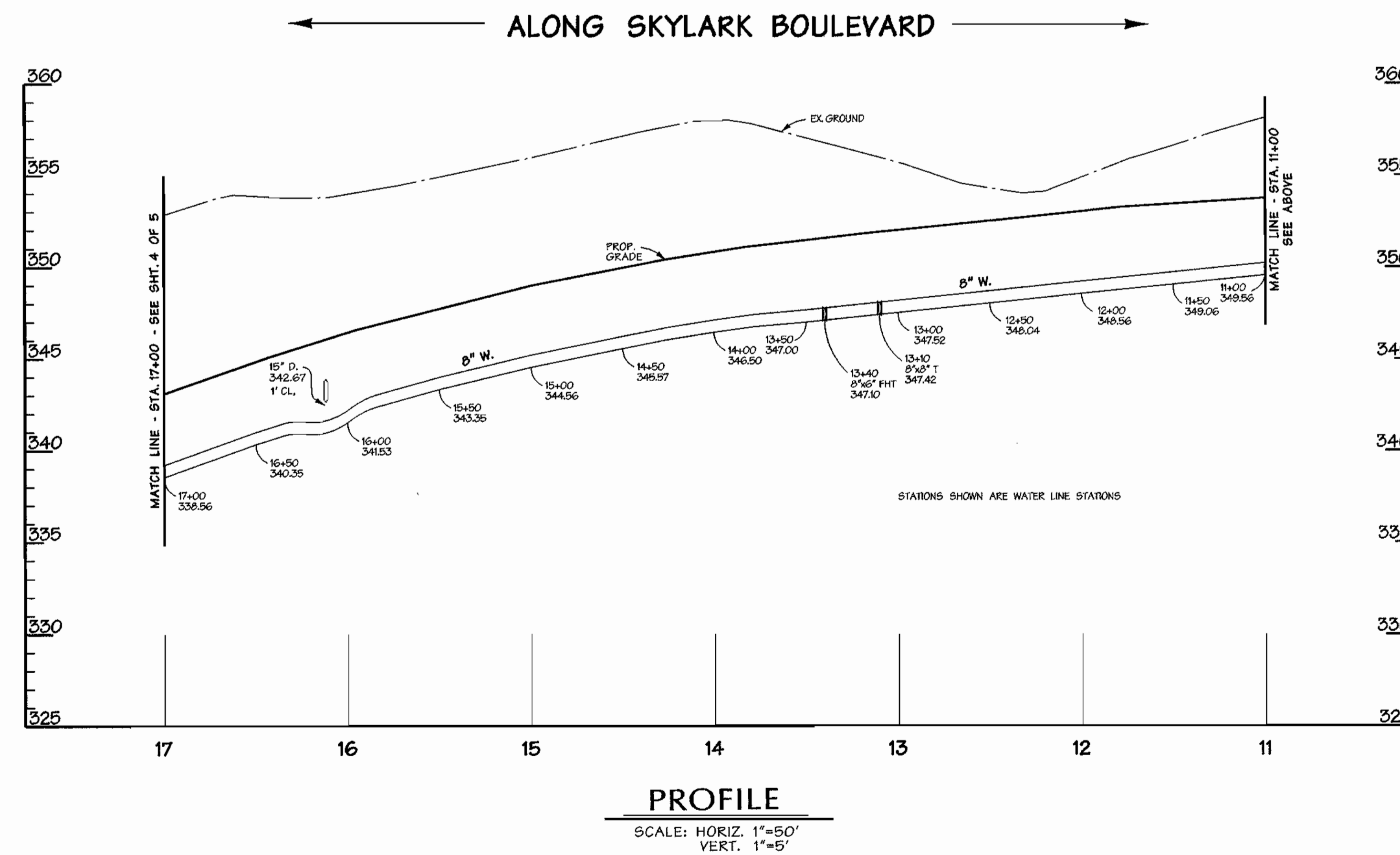
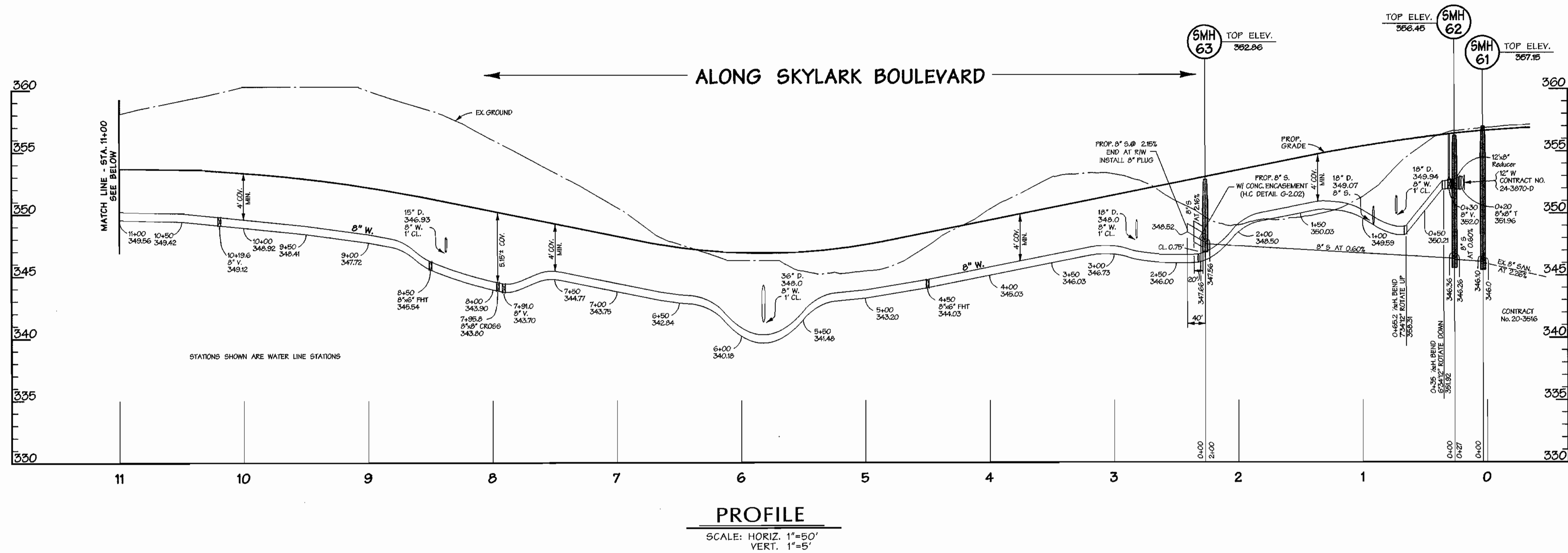
600 SCALE MAP NO. 47 BLOCK NO. 78B

**EMERSON**  
SKYLARK BOULEVARD  
PROPOSED 8" WATER & 8" SEWER  
SECTION 2, PHASE 1-A  
TAX MAP 47 PLO PARCEL P. 837, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3965-D

SCALE:  
1" = 50'  
SHEET  
2 of 5

Robert Berger 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

Chief-Development Engineering Division - DATE



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

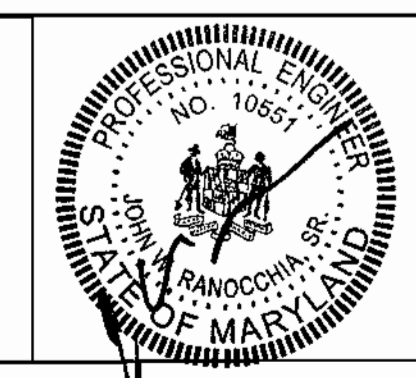
*Ruth Bauman* 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*Heidi Bauman* 9/15/01  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.

A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333 Fax 296 4705



DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR			
DATE:	4-26-01			
BY NO.		REVISION		DATE

PROPOSED 8" WATER & 8" SEWER PROFILES  
SKYLARK BOULEVARD - STA. 0+00 - 17+00

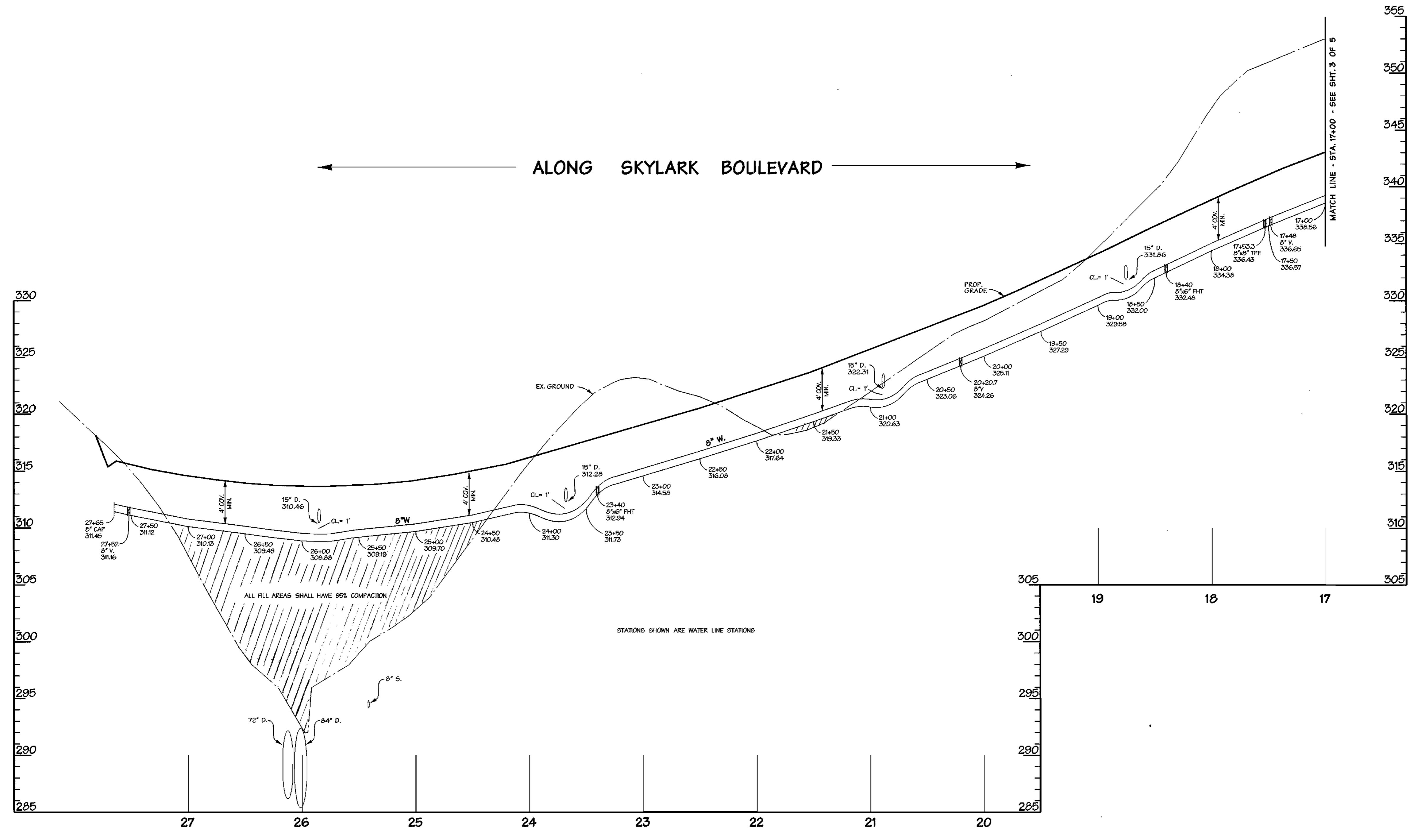
600 SCALE MAP NO. 47 BLOCK NO. 7&B

**EMERSON**  
FORMERLY KEY PROPERTY SKYLARK BLVD  
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. 24-3965-D

SCALE:  
1" = 50'

SHEET  
3 of 5



**PROFILE**

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

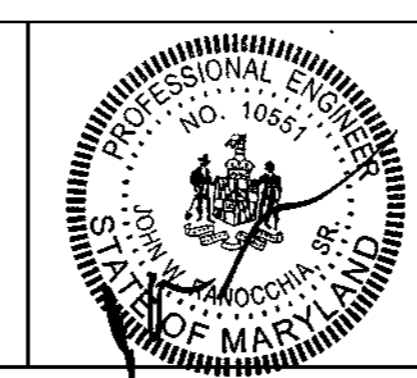
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert J. ...*  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*...*  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
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A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
200 East Pennsylvania Avenue  
Towson, Maryland 21286  
410 286 3333  
Fax 286 4705



DESIGN BY:				
DRAWN BY:				
CHECKED BY:				
DATE:	4-26-01	BY	NO.	REVISION

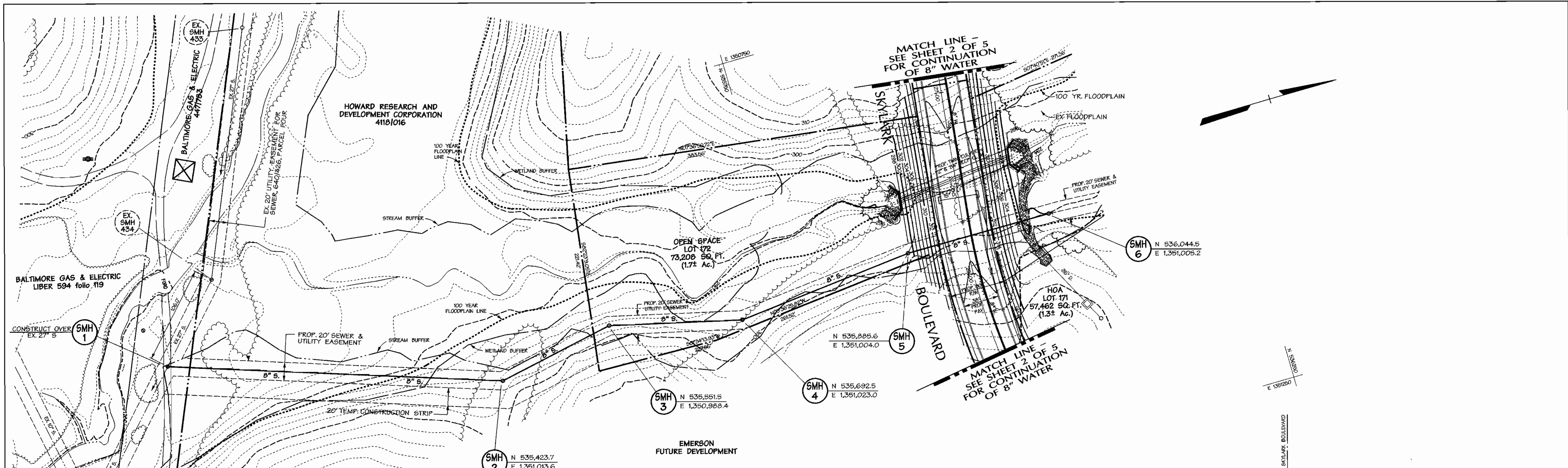
PROPOSED 8" WATER & 8" SEWER PROFILES  
SKYLARK BOULEVARD - STA. 17+00 - 27+65

600 SCALE MAP NO. 47 BLOCK NO. 7&B

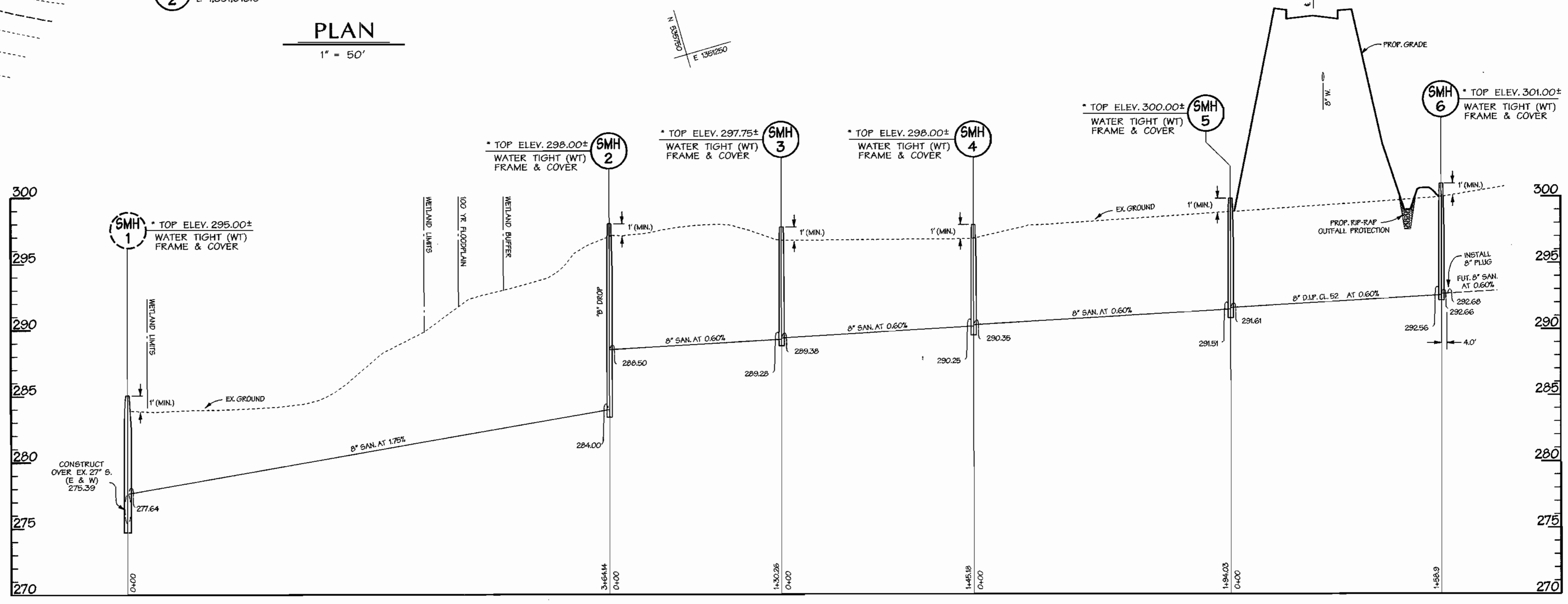
**EMERSON**  
FORMERLY KEY PROPERTY SKYLARK BLVD.  
SECTION 2, PHASE 1-A  
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3965-D

SCALE:  
1"= 50'

SHEET  
4 of 5



**PLAN**  
1" = 50'



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

\* TOP OF MANHOLE TO BE PLACED 1' (MIN.) ABOVE EXISTING GROUND W/ WATER TIGHT FRAME & COVER.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
Robert B. Berman 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
M. J. DeMunnis 8/3/01  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.  
A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333  
Fax 296 4705



DESIGN BY:				
MAT				
DRAWN BY:				
KMF				
CHECKED BY:				
TJR				
DATE:				
4-26-01	BY	NO.	REVISION	DATE

PROPOSED 8" SANITARY SEWER PLAN & PROFILE  
  
ALONG 20' UTILITY EASEMENT  
AND SKYLARK BOULEVARD STA. 25+41 ±  
  
600 SCALE MAP NO. 47 BLOCK NO. 78B

**EMERSON**  
FORMERLY KEY PROPERTY SKYLARK BLVD.  
SECTION 2, PHASE 1-A  
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
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SCALE:  
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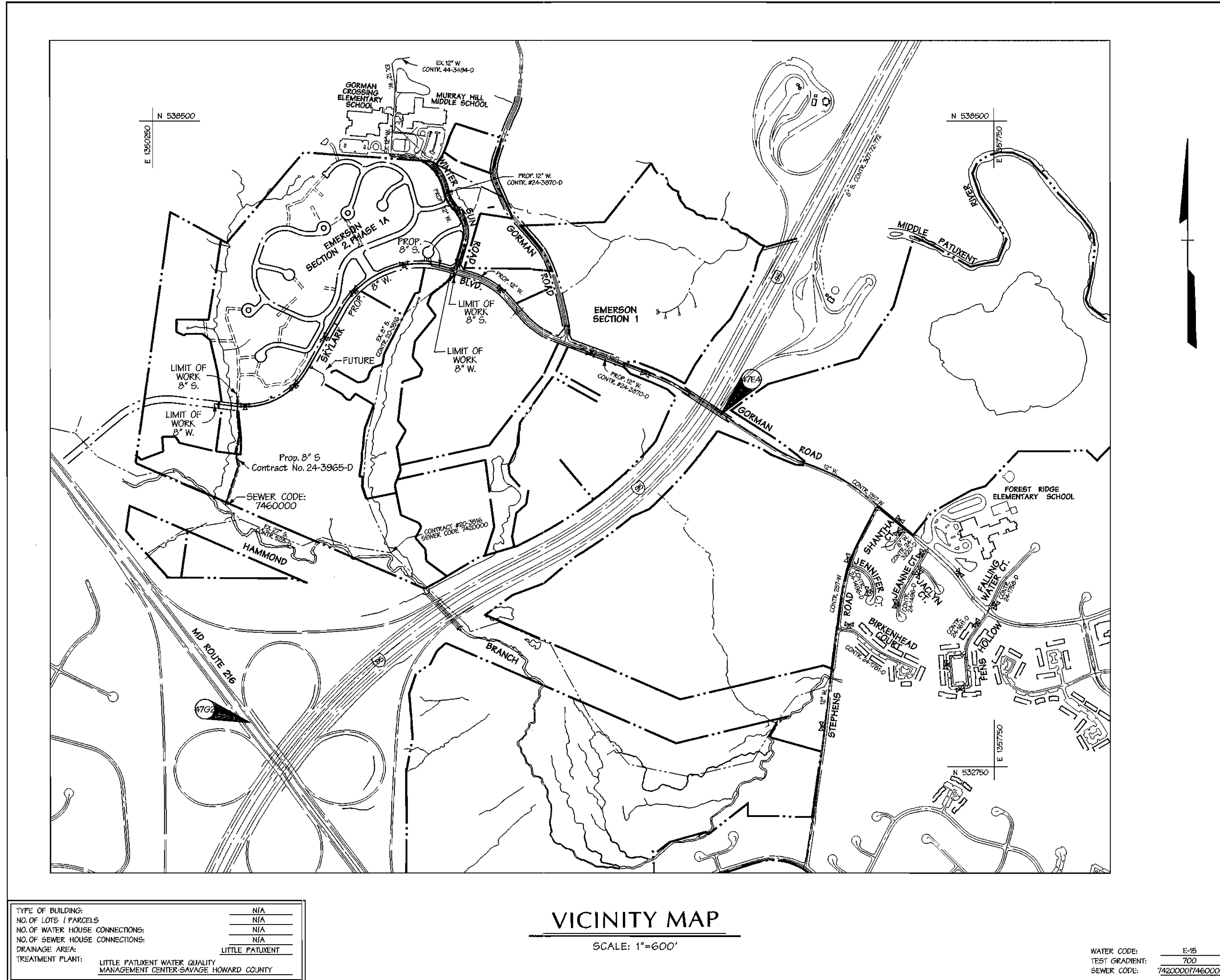
# EMERSON WATER AND SEWER

## SECTION 2, PHASE 1-A, SKYLARK BOULEVARD

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### CONTRACT NO. 24-3965-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 8" W. & 8" S. PLAN - SKYLARK BOULEVARD E STA. 0+00 - 27+66
3	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD E STA. 0+00 - 17+00
4	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD E STA. 17+00 - 27+66
5	PROP. 8" S. PLAN & PROFILE



QUANTITIES				
ITEM	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUFACTURER/SUPPLIER
8" P.V.C. SEWER	1069'			
8" D.I.P. SEWER	159'			
STD. MH	0			
TYPE "D" DROP MH	1			
AIR RELEASE MH	-			
4" D.I.P. WATER	-			
6" D.I.P. WATER	120'			
8" D.I.P. WATER	2860'			
6" VALVE	5			
8" VALVE	10			
FIRE HYDRANTS	5			
8" x 8" CROSS	1			
8" x 8" TEE	2			
8" x 6" TEE	5			
8" CAP & BUT.	5			
6" CAP & BUT.	-			
4" CAP & BUT.	-			
12" x 8" RED.	1			
8" x 6" RED.	-			
8" x 4" RED.	-			
NAME OF UTILITY CONTRACTOR				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE				

**BENCHMARK DESCRIPTION**

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295  
 EASTING: 413136.2550  
 ELEVATION: 339.909ft.

47G2 NORTHING: 162440.1212  
 EASTING: 4116539279  
 ELEVATION: 364.210ft.

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

*Jim Meyers* 8/8/01  
 SIGNATURE DATE

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

*Jim Villalobos* 8/8/01  
 APPROVED BY DATE

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

TYPE OF BUILDING:	N/A
NO. OF LOTS / PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
DRAINAGE AREA:	LITTLE PATIENT
TREATMENT PLANT:	LITTLE PATIENT WATER QUALITY MANAGEMENT CENTER-SAVAGE HOWARD COUNTY

**VICINITY MAP**  
 SCALE: 1"=600'

WATER CODE: E-15  
 TEST GRADIENT: 700  
 SEWER CODE: 7460000

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

DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01		
BY NO.	DMW	STREET NAME	11/29/01
REVISION			

PROPOSED WATER & SEWER TITLE SHEET

**EMERSON**  
 FORMERLY KEY PROPERTY  
 SECTION 2, PHASE 1-A  
 SKYLARK BOULEVARD

TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3965-D

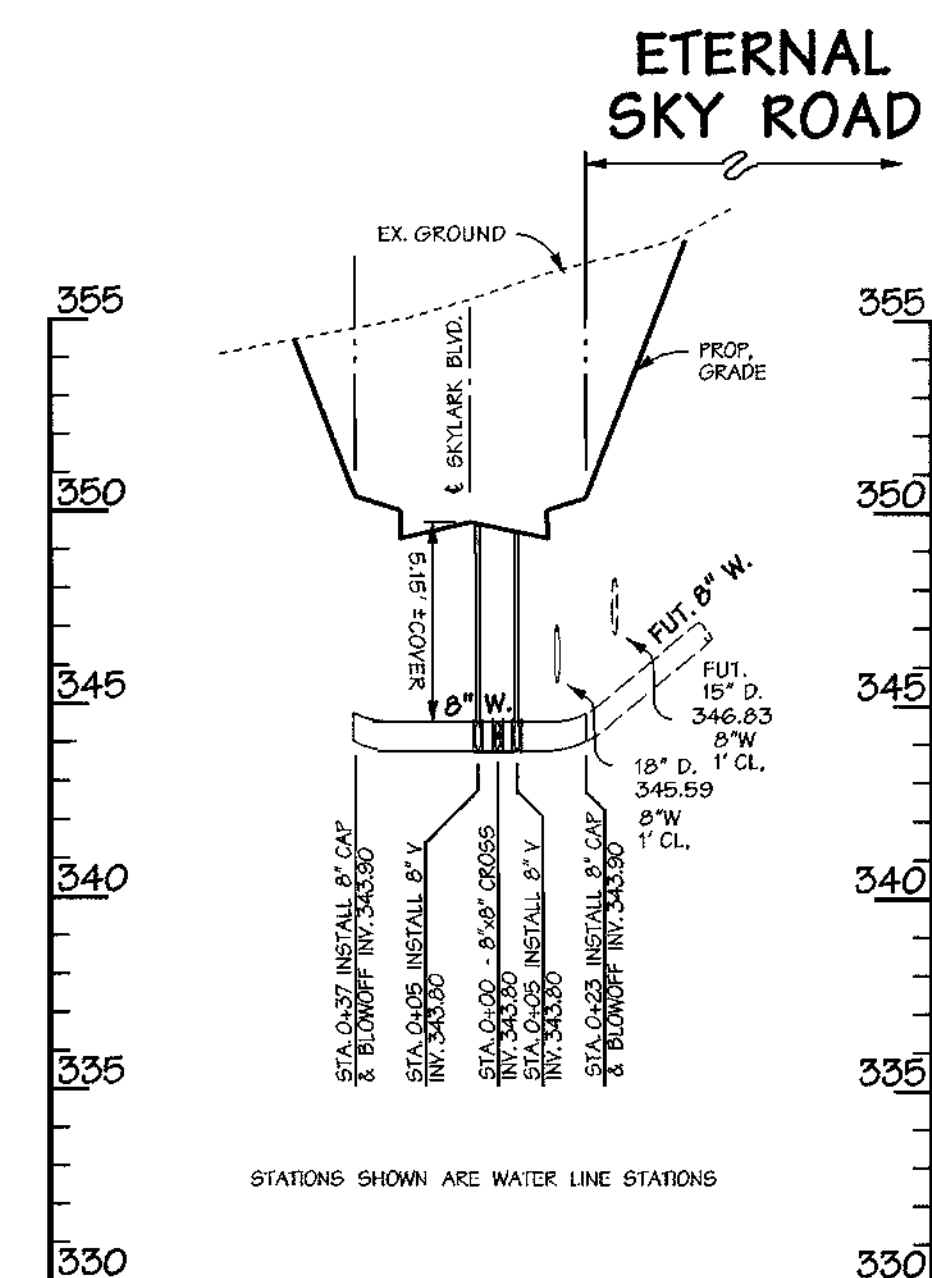
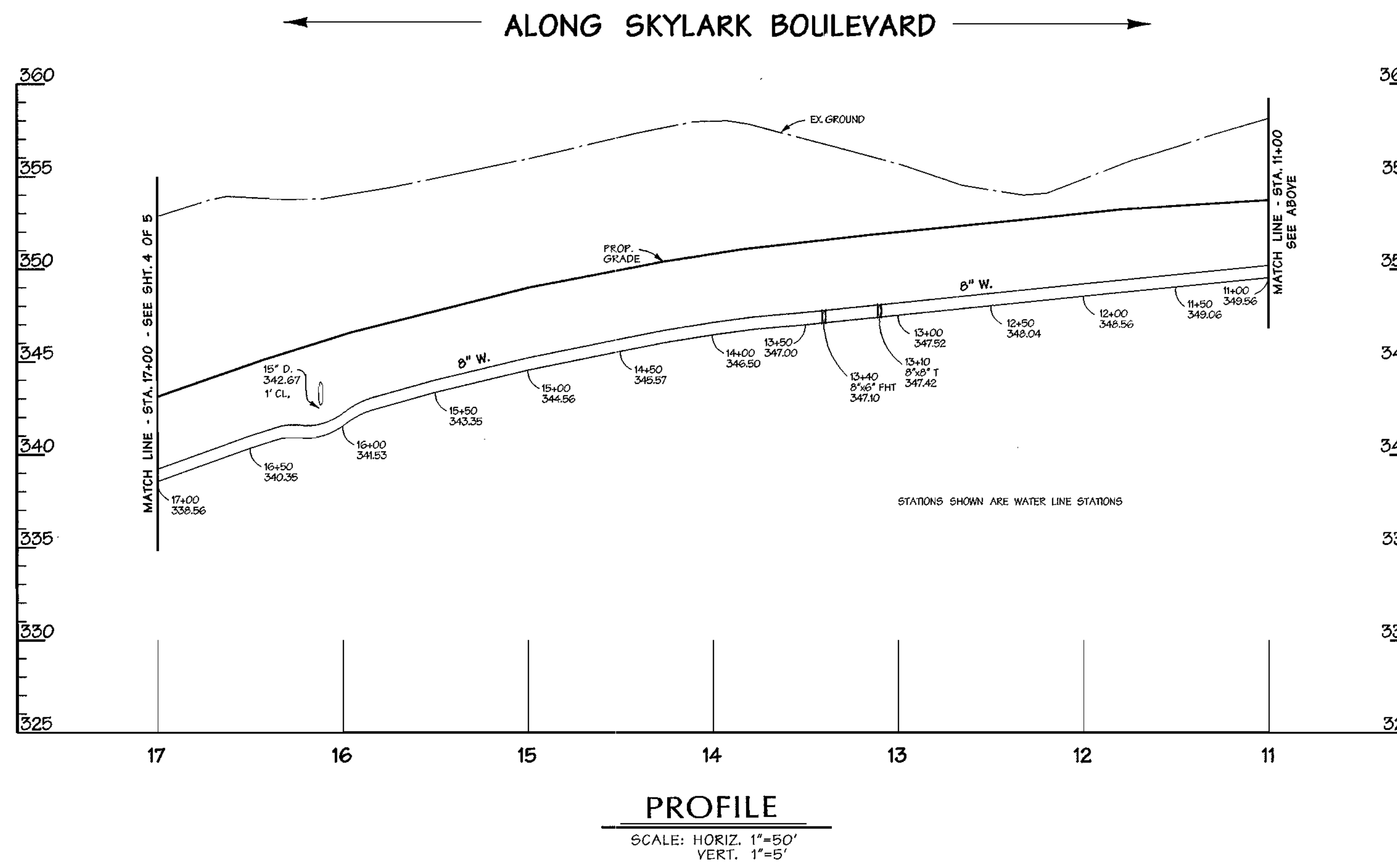
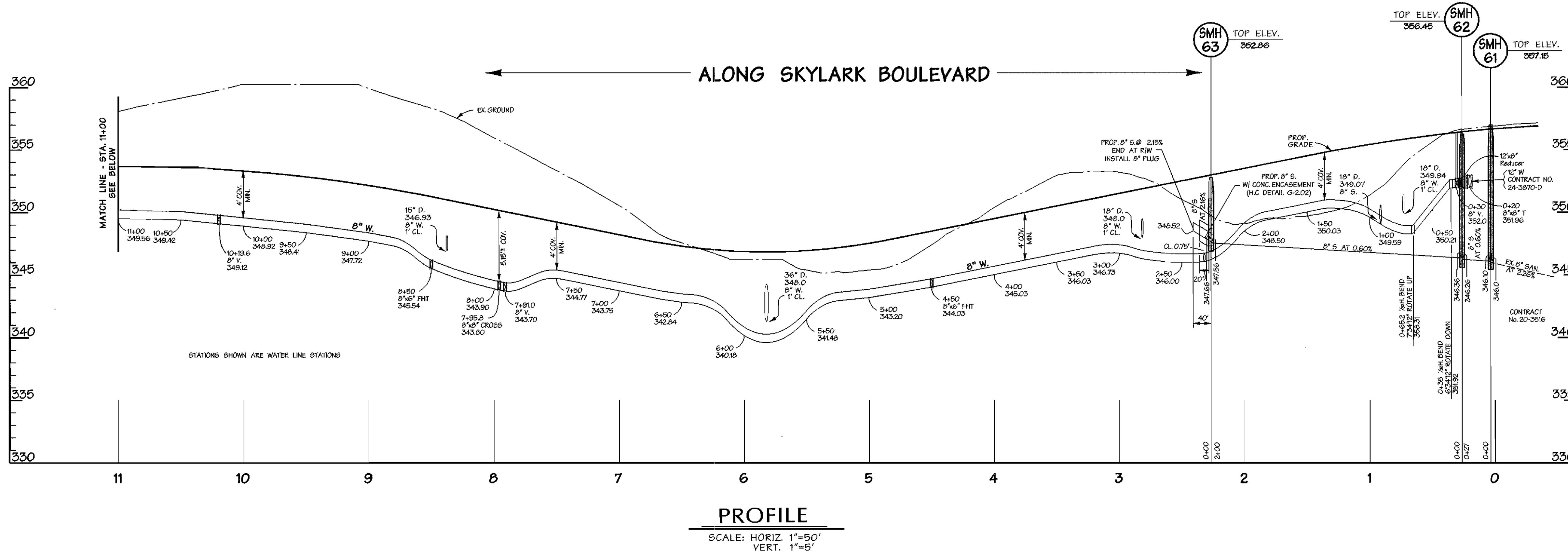
SCALE: AS SHOWN  
 SHEET 1 of 5

*Robert M. Beaman* 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

*He [Signature]* 8/15/01  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
 Daft · McCune · Walker, Inc.  
 A Team of Land Planners, 200 East Pennsylvania Avenue  
 Landscape Architects, Towson, Maryland 21286  
 Engineers, Surveyors & Environmental Professionals  
 MD 296 333-3  
 Fax 296 4705





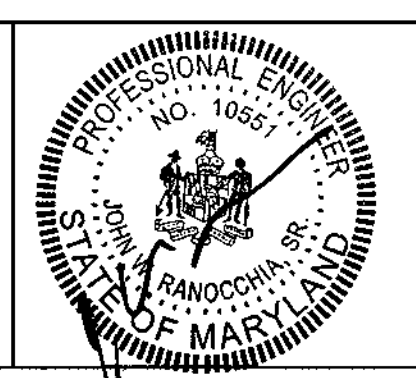
DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Ruth Berman* 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*John D. ...* 8/15/01  
CHIEF-DEVELOPMT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.  
A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333  
Fax 296 4705



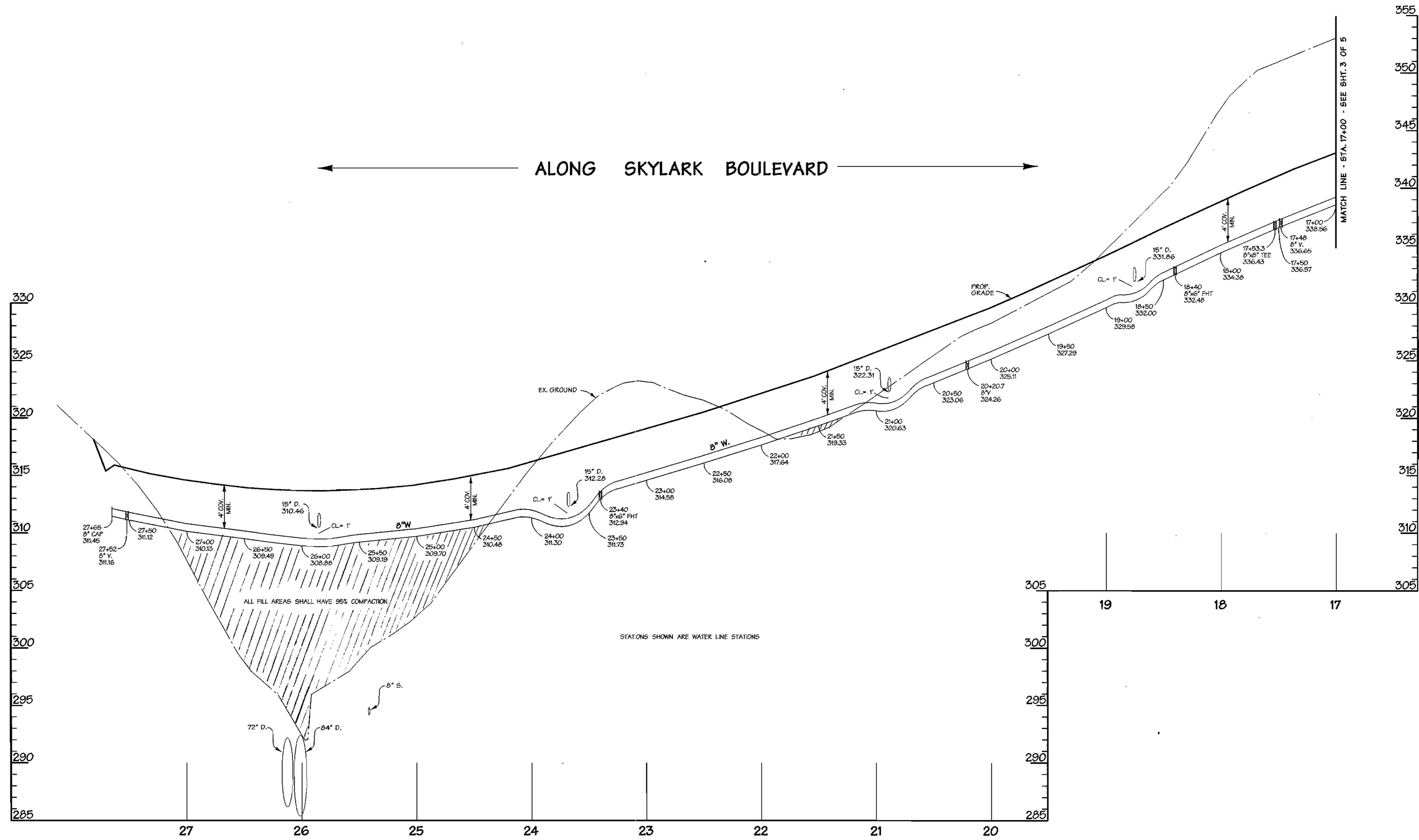
DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-28-01		
BY	NO.	REVISION	DATE
			8/29/01

PROPOSED 8" WATER & 8" SEWER PROFILES  
SKYLARK BOULEVARD - STA. 0+00 - 17+00

600 SCALE MAP NO. 47 BLOCK NO. 76B

**EMERSON**  
FORMERLY KEY PROPERTY SKYLARK BOULEVARD  
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. 24-3965-D

SCALE: 1"=50'  
SHEET 3 of 5

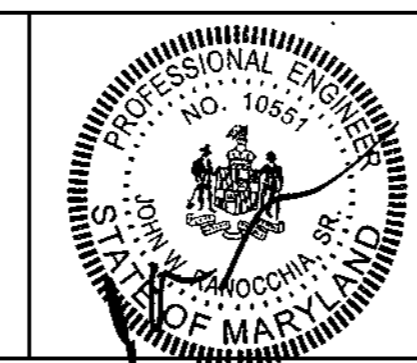


**PROFILE**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Robert Berman 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Robert Berman 8/2/01  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

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 200 East Pennsylvania Avenue  
 Towson, Maryland 21286  
 410 296 3333  
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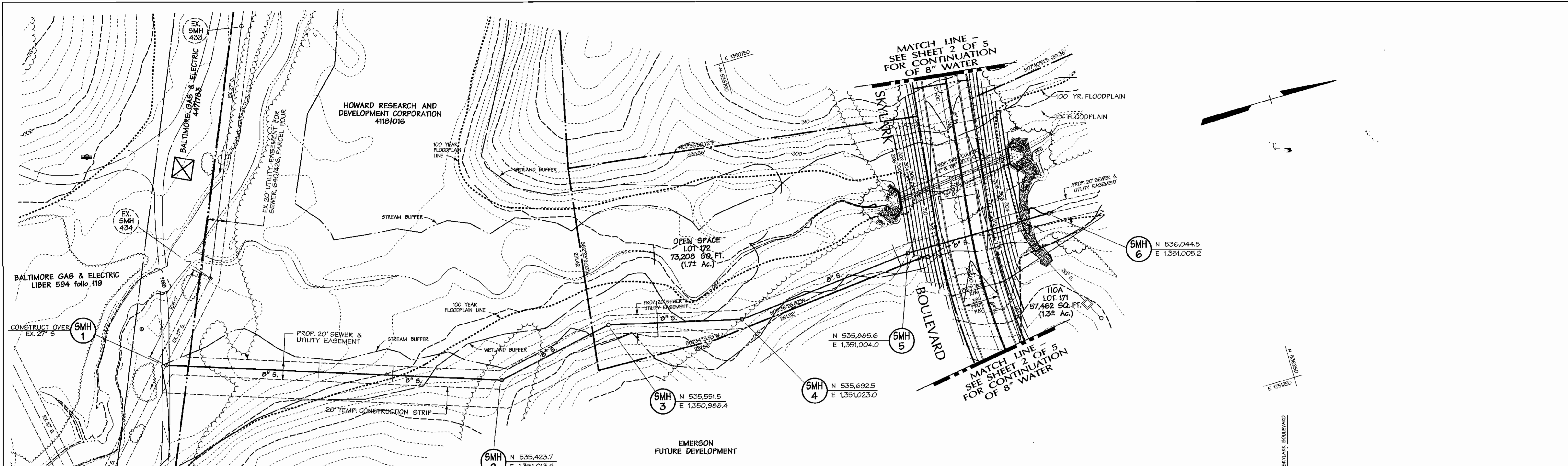
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DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01		
BY	NO.	REVISION	DATE
DMW		STREET NAME	11/29/01

PROPOSED 8" WATER & 8" SEWER PROFILES  
 SKYLARK BOULEVARD - STA. 17+00-27+65  
 600 SCALE MAP NO. 47 BLOCK NO. 7&8

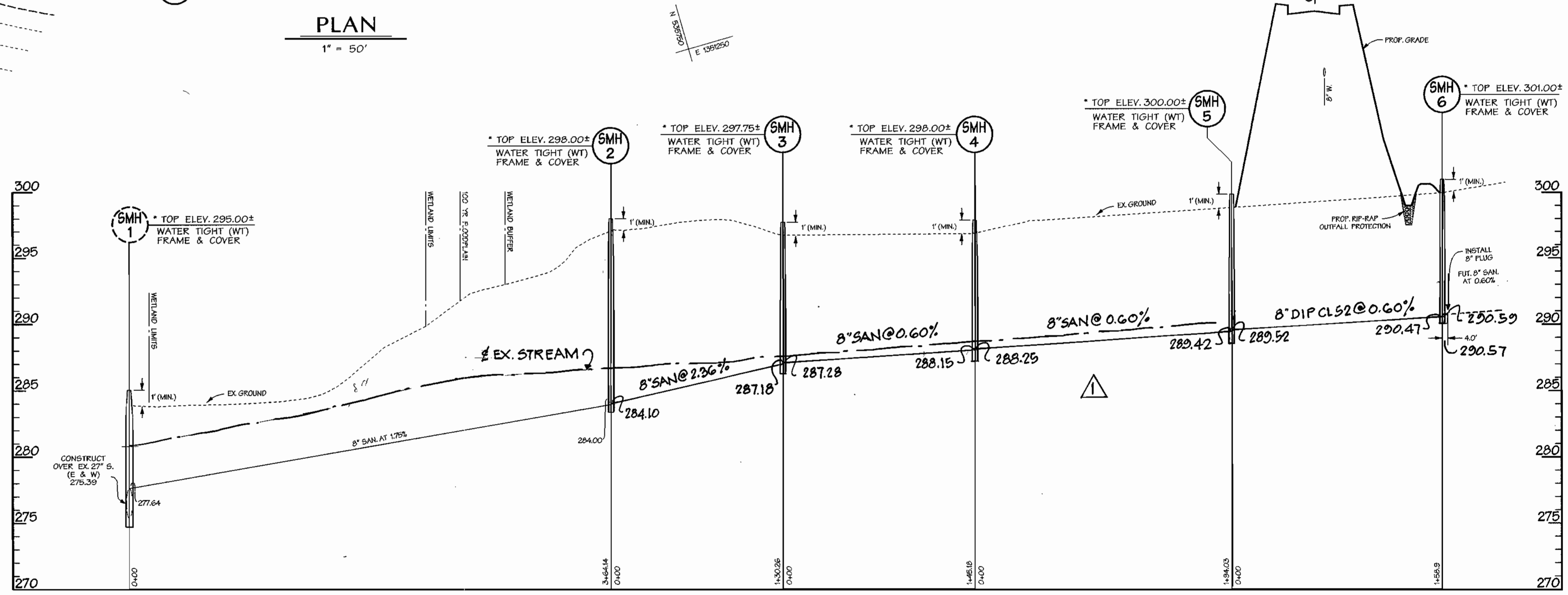
**EMERSON**  
 FORMERLY KEY PROPERTY  
 SECTION 2, PHASE 1-A  
 TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3965-D  
 SKYLARK BOULEVARD

SCALE:  
 1"=50'  
 SHEET  
 4 of 5





PLAN  
1" = 50'



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

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
Robert B. Berman 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
M. J. ... 8/13/01  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

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DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR			
DATE:	4-26-01			
BY:	DMW			
NO.:				
REVISION:	PROFILE SMH-2 TO SMH 6, STREET NAME	11/21/01		
DATE:				

PROPOSED 8" SANITARY SEWER PLAN & PROFILE  
ALONG 20' UTILITY EASEMENT  
AND SKYLARK BOULEVARD STA. 25+41 ±  
600 SCALE MAP NO. 47 BLOCK NO. 7&B

**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. 24-3965-D  
SCALE: 1" = 50'  
SHEET 5 of 5

**GENERAL NOTES**

**PART I**

- 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 (NORTH AMERICAN DATUM OF 1983 (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" MINIMUM OR TUNNEL AS REQUIRED. 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL, VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). 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 UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION 1-410-531-5533  
 BG&E CO. CONTRACTOR SERVICES 1-410-850-4620  
 BG&E CO. UNDER GROUND DAMAGE CONTROL 1-410-787-9068  
 MISS UTILITY 1-800-257-7777  
 COLONIAL PIPELINE CO. 1-410-795-1300  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 BUREAU OF UTILITIES 1-410-313-4900

- 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 THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2450 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BORING/LACKING 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 18.14(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 3-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- 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 RESTRAINED 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 FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- TWIN WATER HOUSE CONNECTION SHALL BE AS PER HOWARD COUNTY STANDARD DETAIL W3.23.

**PART III - SEWER**

- ALL SEWER MAINS SHALL BE DIP AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATER-TIGHT FRAME AND COVERS, STANDARD DETAIL G5.52, WHERE WATER-TIGHT MANHOLE FRAME AND COVER IS USED. SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

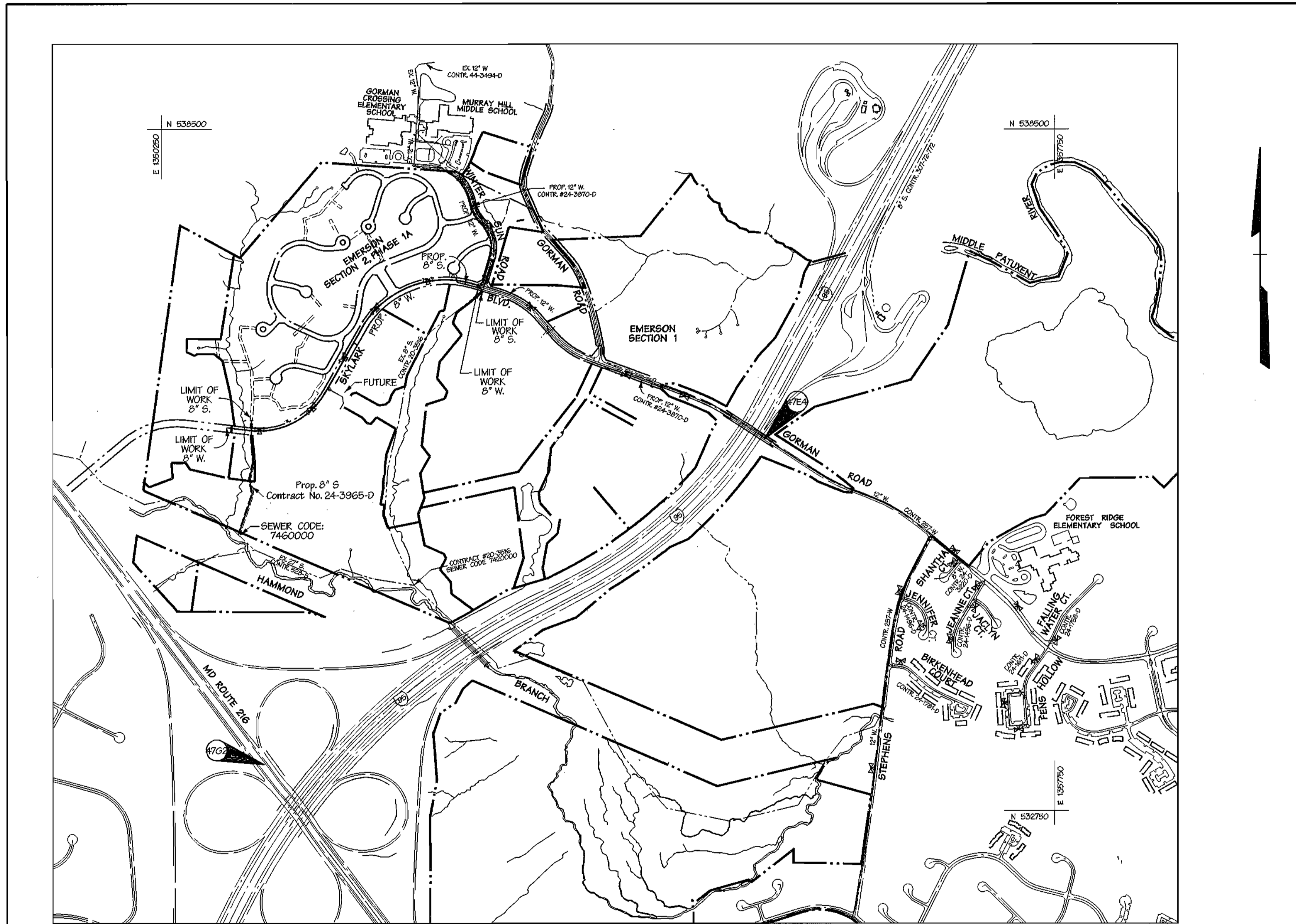
# EMERSON WATER AND SEWER

## SECTION 2, PHASE 1-A, SKYLARK BOULEVARD

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### CONTRACT NO. 24-3965-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 8" W. & 8" S. PLAN - SKYLARK BOULEVARD & STA. 0+00 - 27+66
3	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD & STA. 0+00 - 17+00
4	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD & STA. 17+00 - 27+66
5	PROP. 8" S. PLAN & PROFILE



**VICINITY MAP**

SCALE: 1"=600'

ITEM	QUANTITIES ESTIMATED	QUANTITIES		
		QUANTITIES	TYPE	AS-BUILT MANUFACTURER/SUPPLIER
6" P.V.C. SEWER	1105'	1105'	SDP 35	J.M. MANUFACTURING
6" D.I.P. SEWER	159'	159'	CL-52	ATLANTIC STATES
510 MH	0	0	PRECAST	ATLANTIC CONC. PROD. INC.
TYPE 2 DROP MH	1	1	PRECAST	" " " "
AK RELEASE MH	-	-	-	-
4" D.I.P. WATER	-	-	-	-
6" D.I.P. WATER	120'	120'	CL-52	ATLANTIC STATES
8" D.I.P. WATER	2860'	2860'	CL-52	" " " "
6" VALVE	5	5	RESWEDGE GATE	MULLER COMPANY
8" VALVE	10	10	" " " "	" " " "
FIRE HYDRANTS	5	5	A423 CENTURION	" " " "
8" x 8" CROSS	1	-	-	-
8" x 8" TEE	2	4	M.J.	UNION FOUNDRY
8" x 8" TEE	5	5	M.J.	" " " "
8" CAP & BUT.	5	5	M.J.	" " " "
6" CAP & BUT.	-	-	-	-
4" CAP & BUT.	-	-	-	-
12" x 8" RED.	1	1	M.J.	" " " "
8" x 6" RED.	-	-	-	-
8" x 4" RED.	-	-	-	-
NAME OF UTILITY CONTRACTOR: H.T.I. INC.				
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: _____				

**BENCHMARK**

**DESCRIPTION**

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGV929 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295  
 EASTING: 413136.2550  
 ELEVATION: 339.909ft.

47G2 NORTHING: 162440.1212  
 EASTING: 411853.9279  
 ELEVATION: 364.210ft.

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

Signature: *Jim Myers* DATE: 8/8/01

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

Signature: *Jim P. Blanton* DATE: 8/8/01

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

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

TYPE OF BUILDING:	N/A
NO. OF LOTS / PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
DRAINAGE AREA:	LITTLE PATIENT
TREATMENT PLANT:	LITTLE PATIENT WATER QUALITY MANAGEMENT CENTER-SAVAGE HOWARD COUNTY

WATER CODE: E-15  
 TEST GRADIENT: 700  
 SEWER CODE: 7420000/7460000

Signature: *Robert M. Beames* DATE: 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

Signature: *H. J. ...* DATE: 8/15/01  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
**Daft · McCune · Walker, Inc.**  
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
 200 East Pennsylvania Avenue  
 Towson, Maryland 21286  
 410 296 3333  
 Fax 296 4705

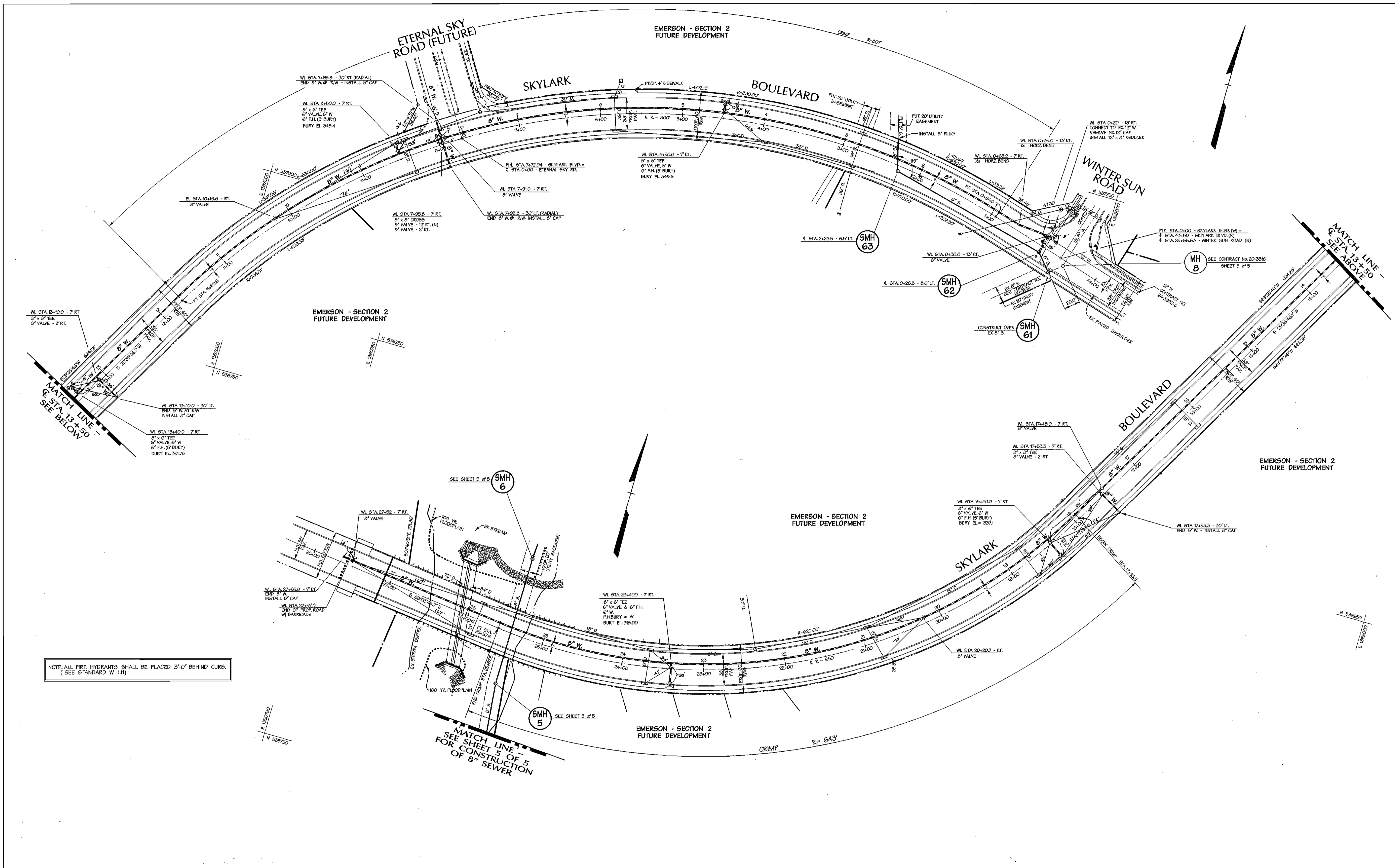


DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR	K.C.I. / A	AS-BUILT DATA ADDED TO PLAN	8/15/01
DATE:	4-26-01	DMW / A	STREET NAME	11/29/01
BY NO.			REVISION	DATE

PROPOSED WATER & SEWER TITLE SHEET  
 600 SCALE MAP NO. 47 BLOCK NO. 7&B

**EMERSON**  
 FORMERLY KEY PROPERTY SKYLARK BOULEVARD  
 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. 24-3965-D

SCALE: AS SHOWN  
 SHEET 1 of 5



NOTE: ALL FIRE HYDRANTS SHALL BE PLACED 3'-0" BEHIND CURB.  
(SEE STANDARD W 1.11)

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

*Robert D. ...*  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

*...*  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

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Daft · McCune · Walker, Inc.

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DESIGN BY:	MAT			
DRAWN BY:	KMF			
CHECKED BY:	TJR			
DATE:	4-26-01			
BY NO.	KCI 1	REVISION	ABSOLUTE DATA ADDED TO PLAN	8/15/02

PROPOSED 8" WATER & 8" SEWER  
SKYLARK BOULEVARD - STA. 0+00 - 27+65

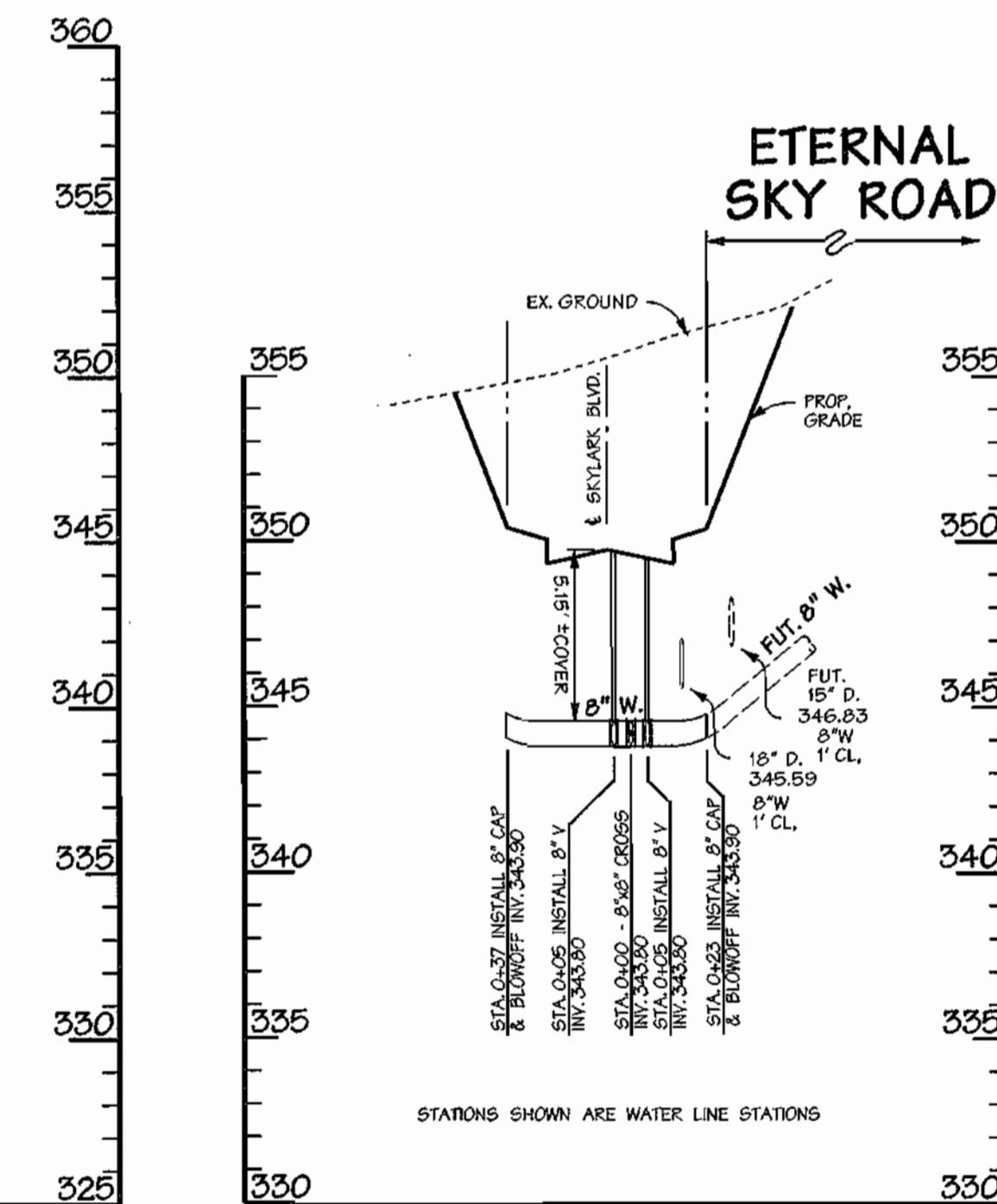
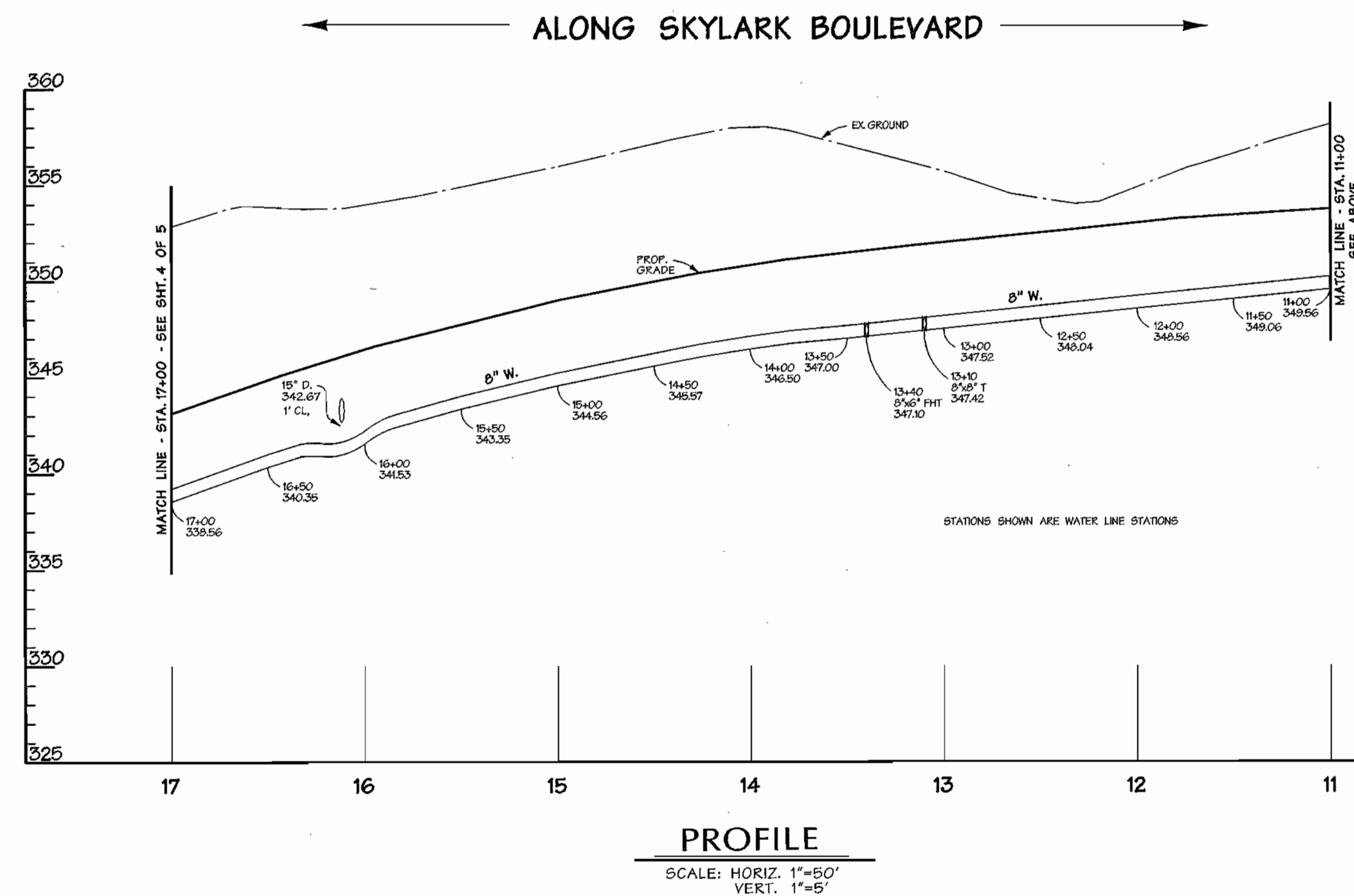
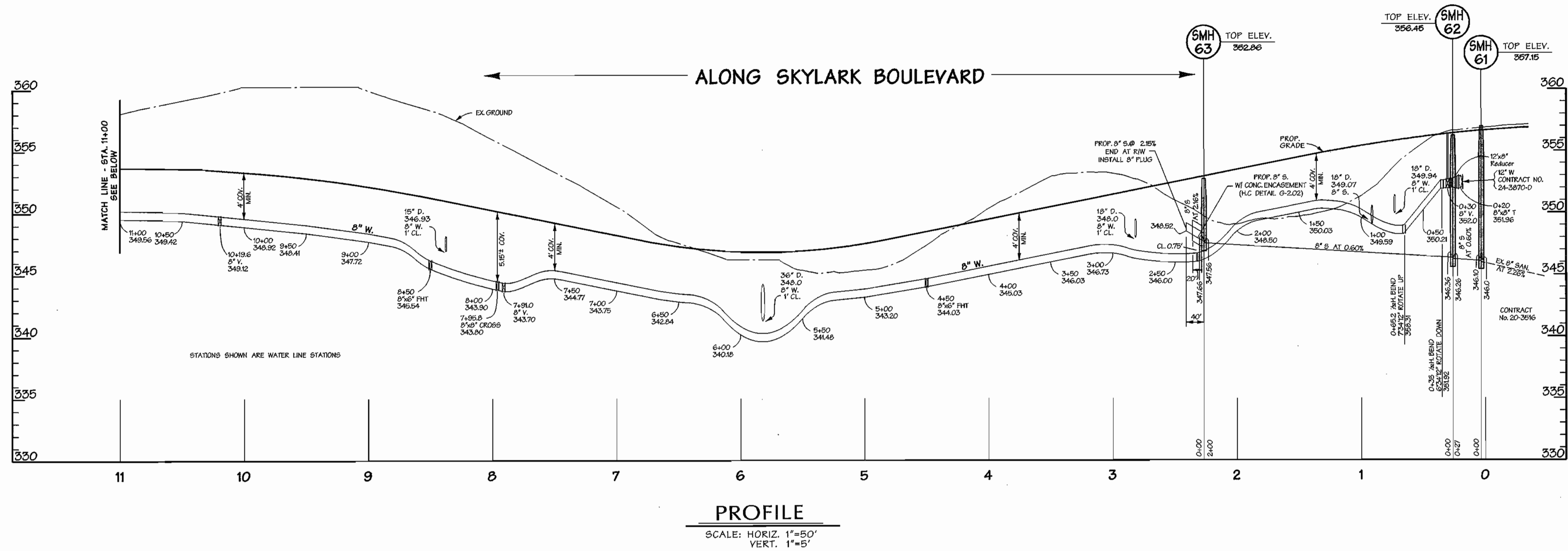
600 SCALE MAP NO. 47 BLOCK NO. 7&B

**EMERSON**  
SKYLARK BOULEVARD  
PROPOSED 8" WATER & 8" SEWER  
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. 24-3965-D

SCALE:  
1" = 50'

SHEET  
2 of 5



DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND

**DMW**  
Daft · McCune · Walker, Inc.

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Towson, Maryland 21286  
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DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01	BY NO.	STREET NAME
		REVISION	DATE

PROPOSED 8" WATER & 8" SEWER PROFILES  
SKYLARK BOULEVARD - STA. 0+00 - 17+00

600 SCALE MAP NO. 47 BLOCK NO. 7&8

**EMERSON**

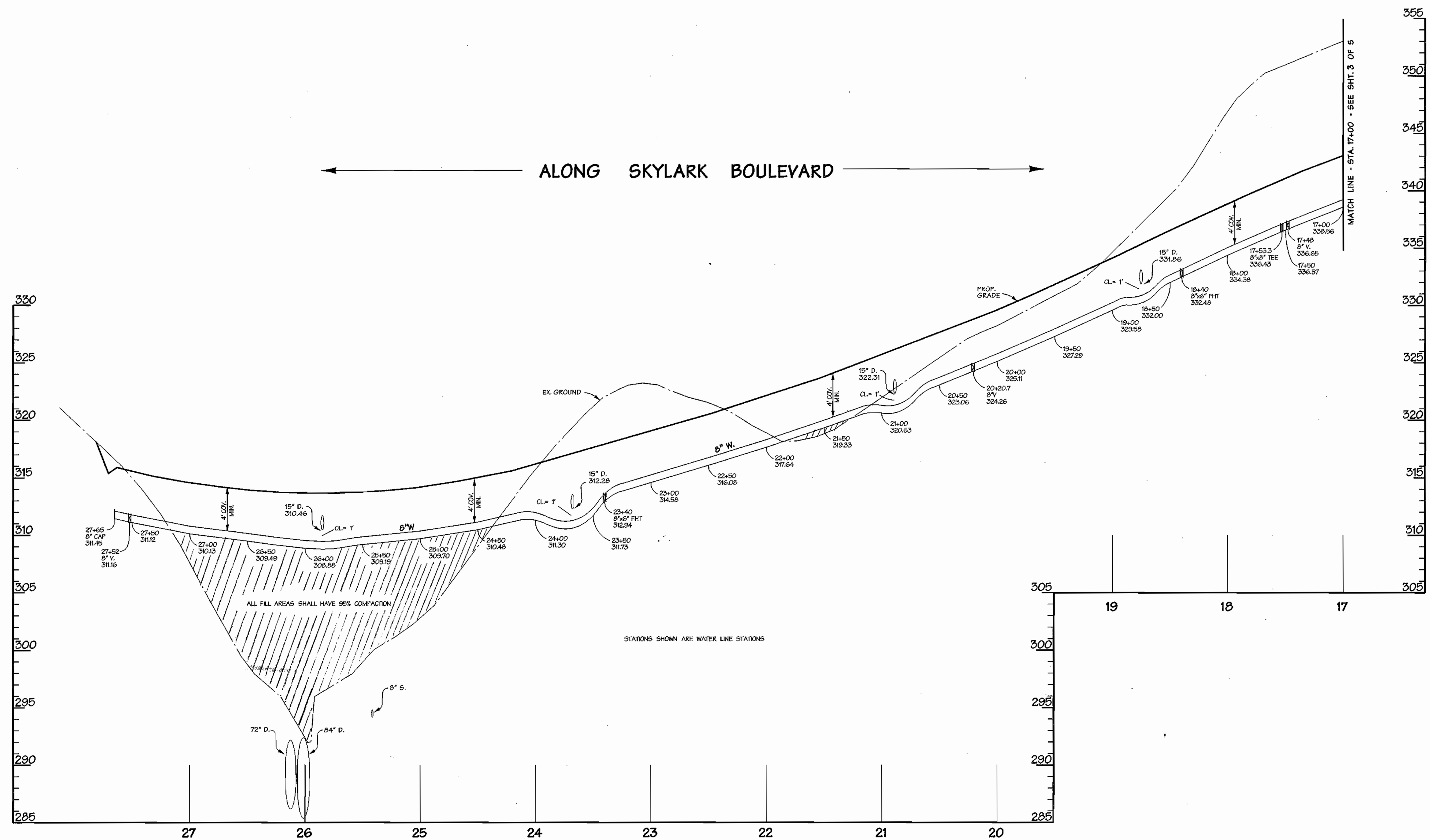
FORMERLY KEY PROPERTY SKYLARK BOULEVARD  
SECTION 2, PHASE 1-A

TAX MAP 47 P/O PARCEL P. 037, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3965-D

SCALE:  
1" = 50'

SHEET  
3 of 5



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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 Chief - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 Chief-DEVELOPMT ENGINEERING DIVISION - DATE

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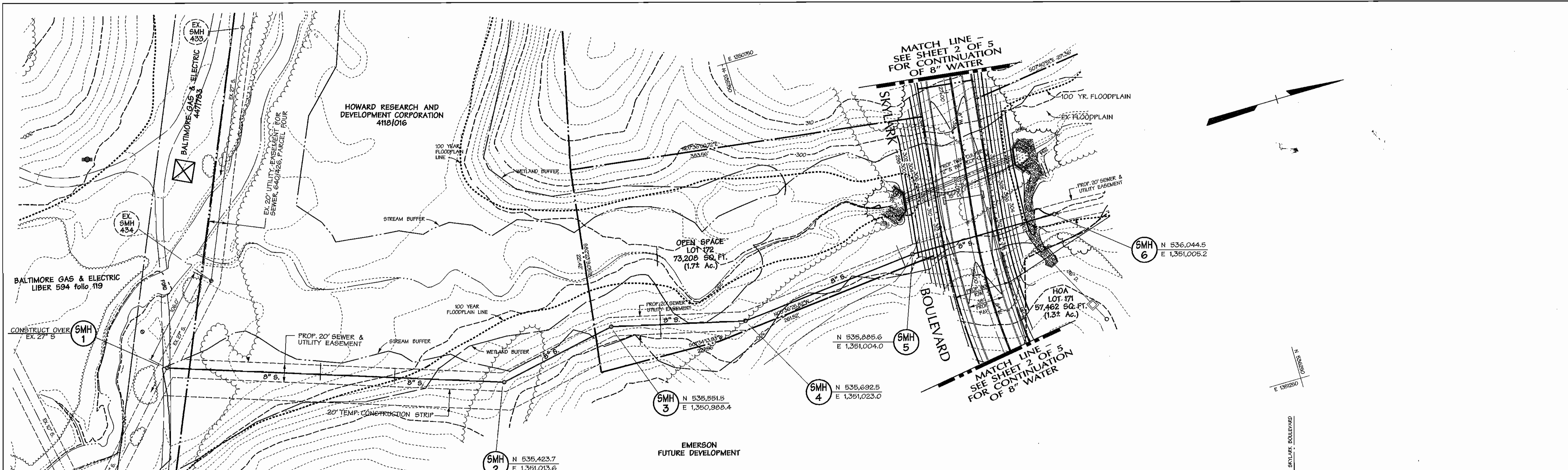
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PROPOSED 8" WATER & 8" SEWER PROFILES  
 SKYLARK BOULEVARD - STA. 17+00 -27+65

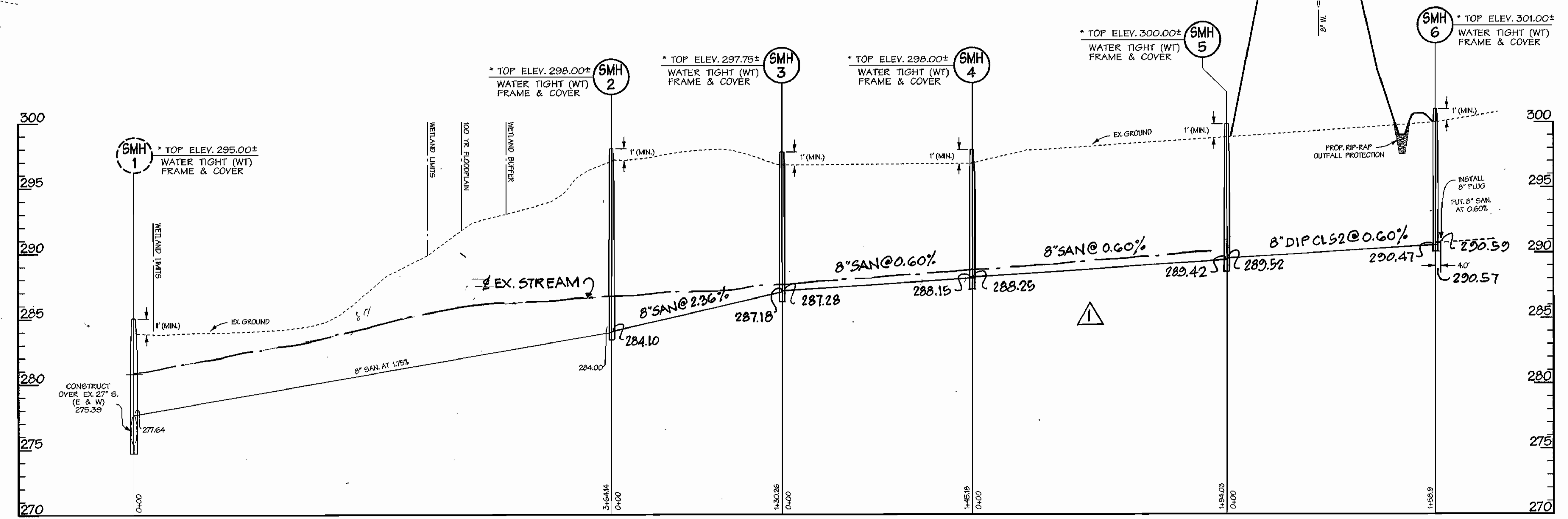
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 TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
 CONTRACT NO. 24-3965-D

SCALE:  
 1"= 50'  
 SHEET  
 4 of 5

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**PLAN**  
1" = 50'



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

\* TOP OF MANHOLE TO BE PLACED 1'(MIN.) ABOVE EXISTING GROUND W/ WATER TIGHT FRAME & COVER.

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
R. B. B... 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
M. D. ... 8/13/01  
CHIEF-DEVELOPMT ENGINEERING DIVISION - DATE

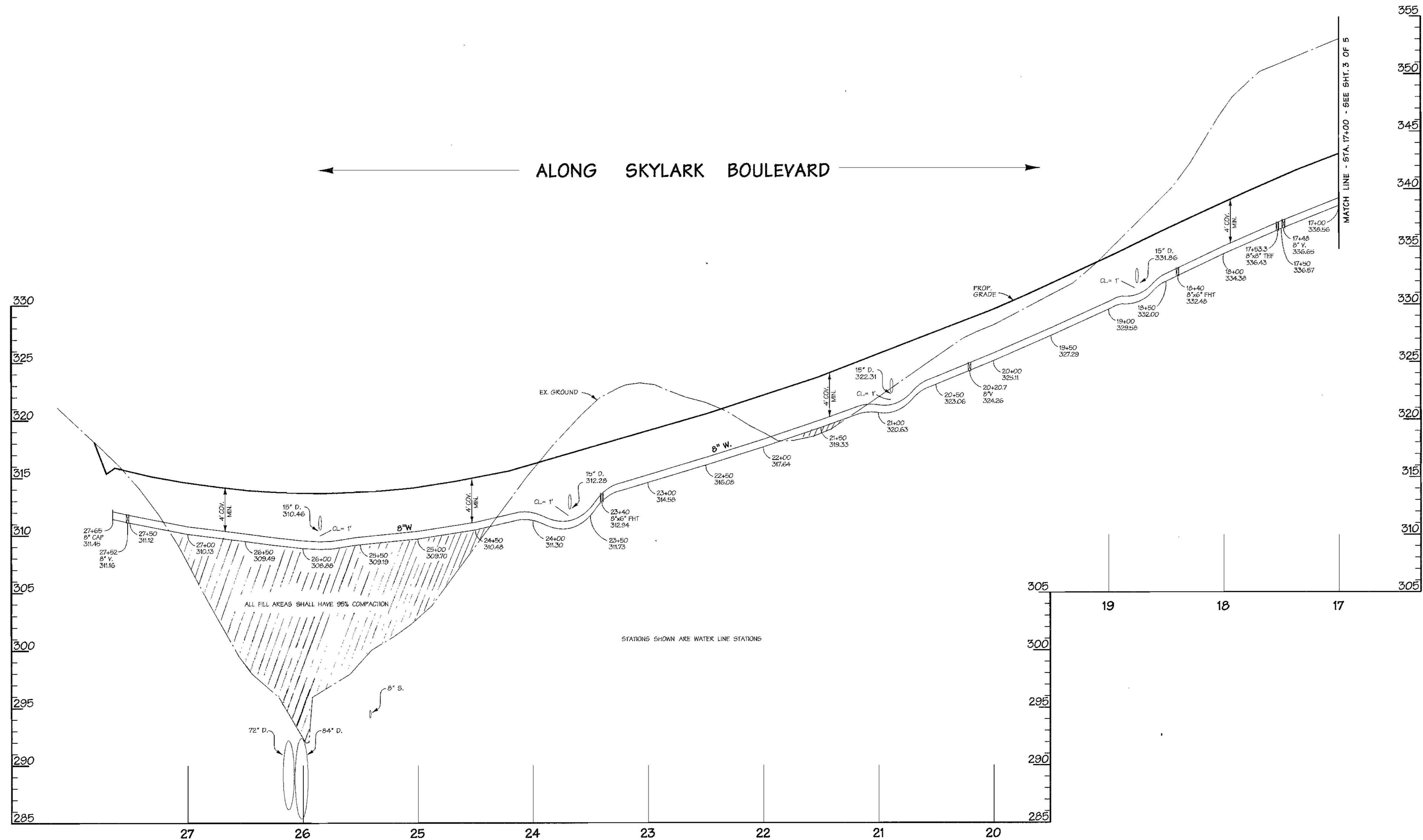
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DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01		
DMW	BY	NO.	REVISION
			PROFILE SMH-2 TO SMH 6, STREET NAME 11/29/01

PROPOSED 8" SANITARY SEWER PLAN & PROFILE  
ALONG 20' UTILITY EASEMENT  
AND SKYLARK BOULEVARD STA. 25+41 ±  
600 SCALE MAP NO. 47 BLOCK NO. 7&B

**EMERSON**  
FORMERLY KEY PROPERTY  
SECTION 2, PHASE 1-A  
SKYLARK BOULEVARD  
TAX MAP 47 P10 PARCEL P. B37, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
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SHEET 5 of 5



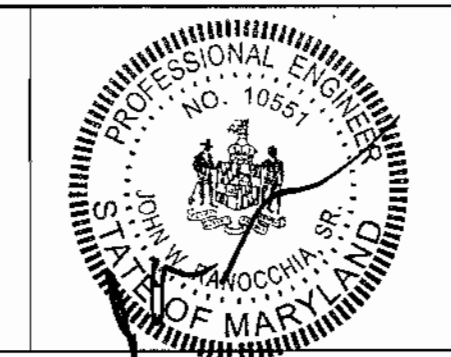
**PROFILE**  
 SCALE: HORIZ. 1"=50'  
 VERT. 1"=5'

**AS BUILT**  
 DATE: JAN. 2004

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND  
 R. J. ... 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND  
 H. ... 8/13/01  
 CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
 Daft · McCune · Walker, Inc.  
 A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
 200 East Pennsylvania Avenue  
 Towson, Maryland 21286  
 410 296 3333  
 Fax 296 4705

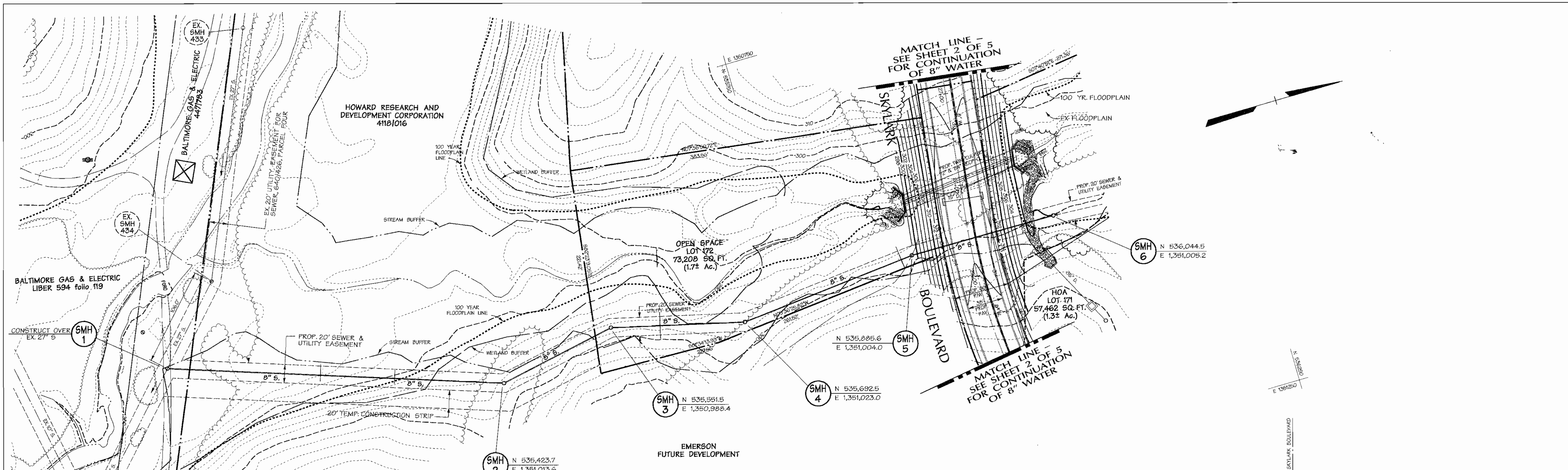


DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01		
BY	NO.	REVISION	DATE
DMW	▲	STREET NAME	11/29/01

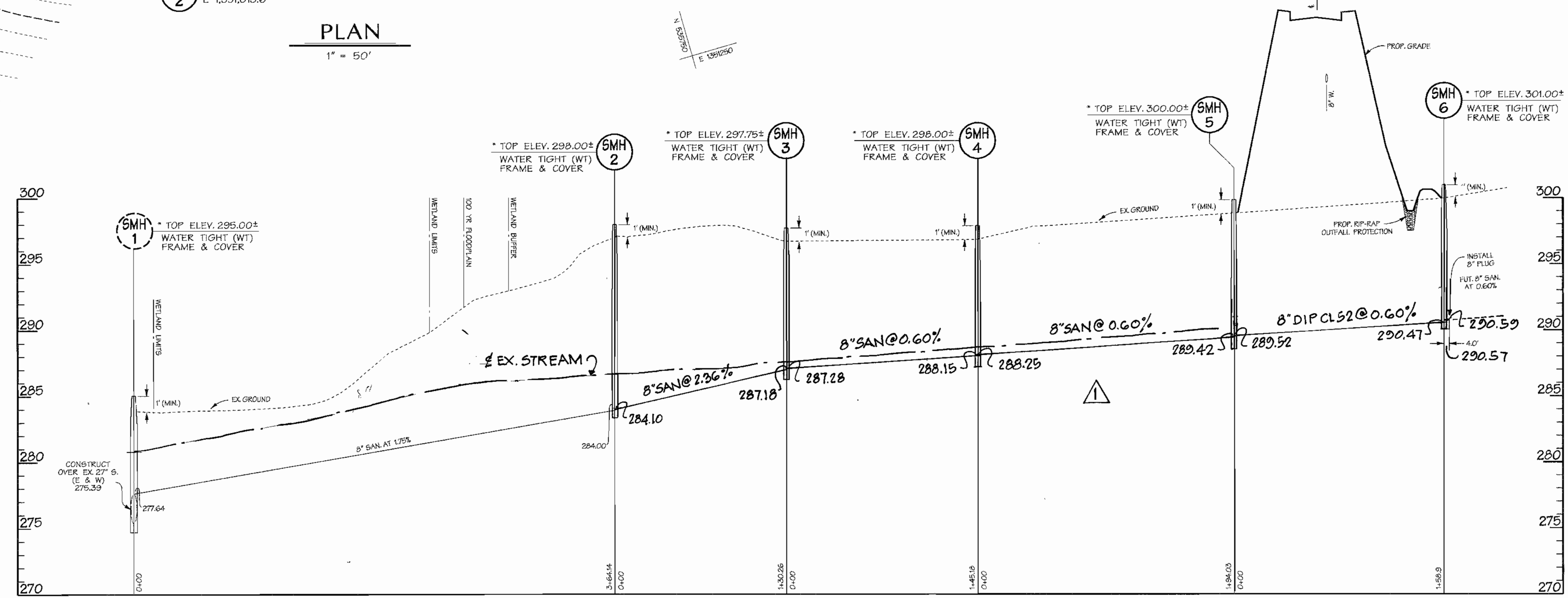
PROPOSED 8" WATER & 8" SEWER PROFILES  
 SKYLARK BOULEVARD - STA. 17+00 -27+65  
 600 SCALE MAP NO. 47 BLOCK NO. 7&B

**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. 24-3965-D

SCALE:  
 1"= 50'  
 SHEET  
 4 of 5



**PLAN**  
1" = 50'



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

\* TOP OF MANHOLE TO BE PLACED 1" (MIN.) ABOVE EXISTING GROUND W/ WATER TIGHT FRAME & COVER.

**AS BUILT**  
DATE: JAN. 2004

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
R. J. B... 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
M... 8/3/01  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

**DMW**  
Daft · McCune · Walker, Inc.  
A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333  
Fax 296 4705

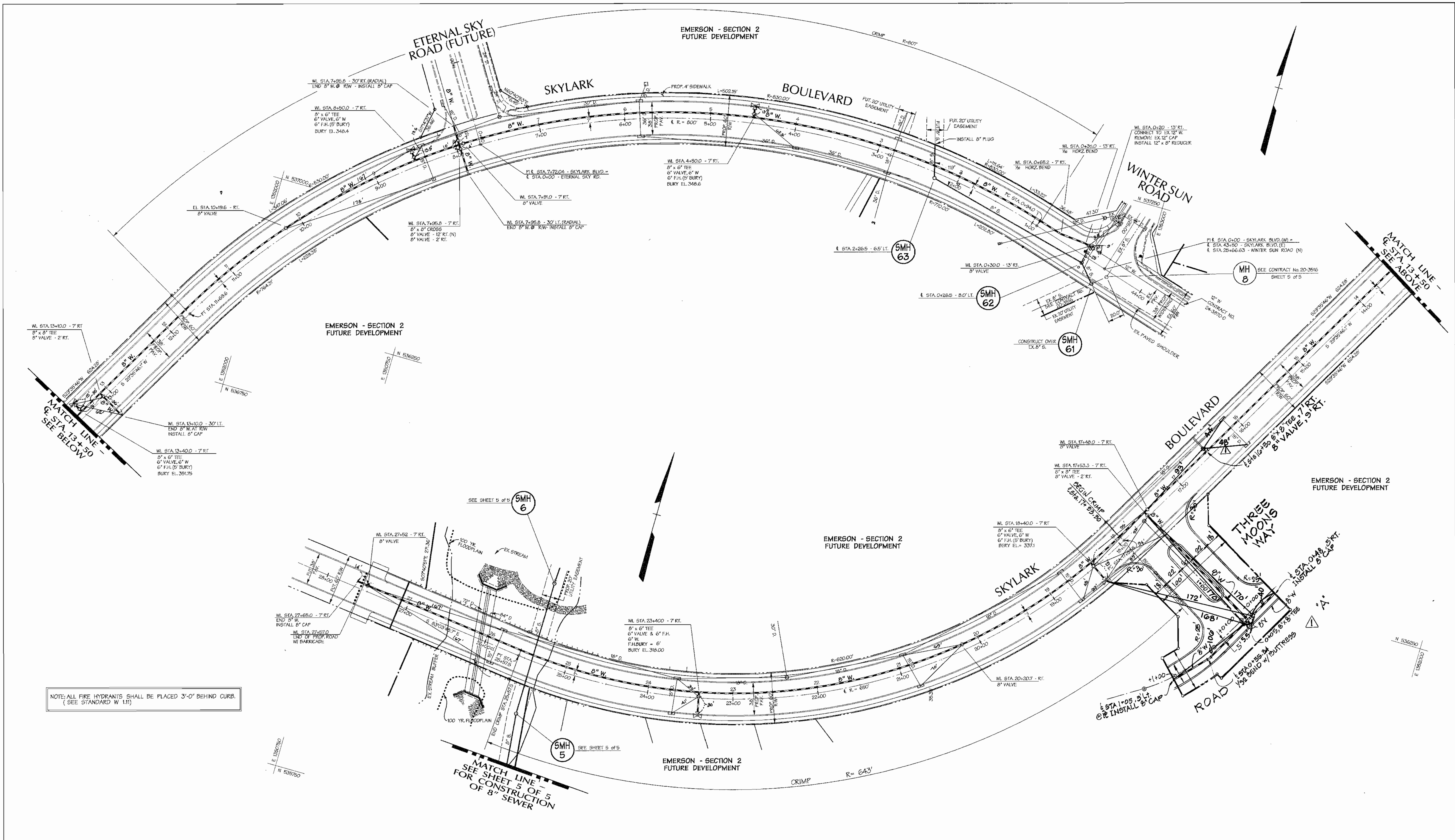


DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	TJR		
DATE:	4-26-01		
BY:	NO.	REVISION	DATE
DMW		PROFILE SMH-2 TO SMH 6, STREET NAME	11/29/01

PROPOSED 8" SANITARY SEWER PLAN & PROFILE  
ALONG 20' UTILITY EASEMENT  
AND SKYLARK BOULEVARD STA. 25+41 ±  
600 SCALE MAP NO. 47 BLOCK NO. 78B

**EMERSON**  
FORMERLY KEY PROPERTY  
SECTION 2, PHASE 1-A  
SKYLARK BOULEVARD  
TAX MAP 47 P/O PARCEL P. 837, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3965-D  
SCALE: 1" = 50'  
SHEET 5 of 5





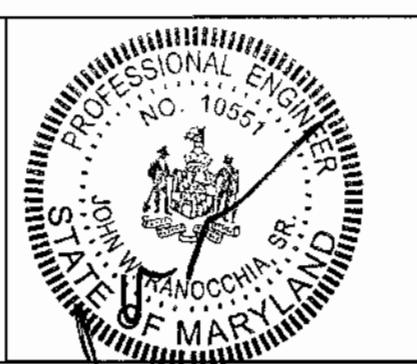
NOTE: ALL FIRE HYDRANTS SHALL BE PLACED 3'-0" BEHIND CURB.  
(SEE STANDARD W 111)

**AS BUILT**  
DATE: JAN. 2004

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
Robert Baunier 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
Chris Pannunzi 8/13/01  
CHIEF-DEVELOPMENT ENGINEERING DIVISION - DATE

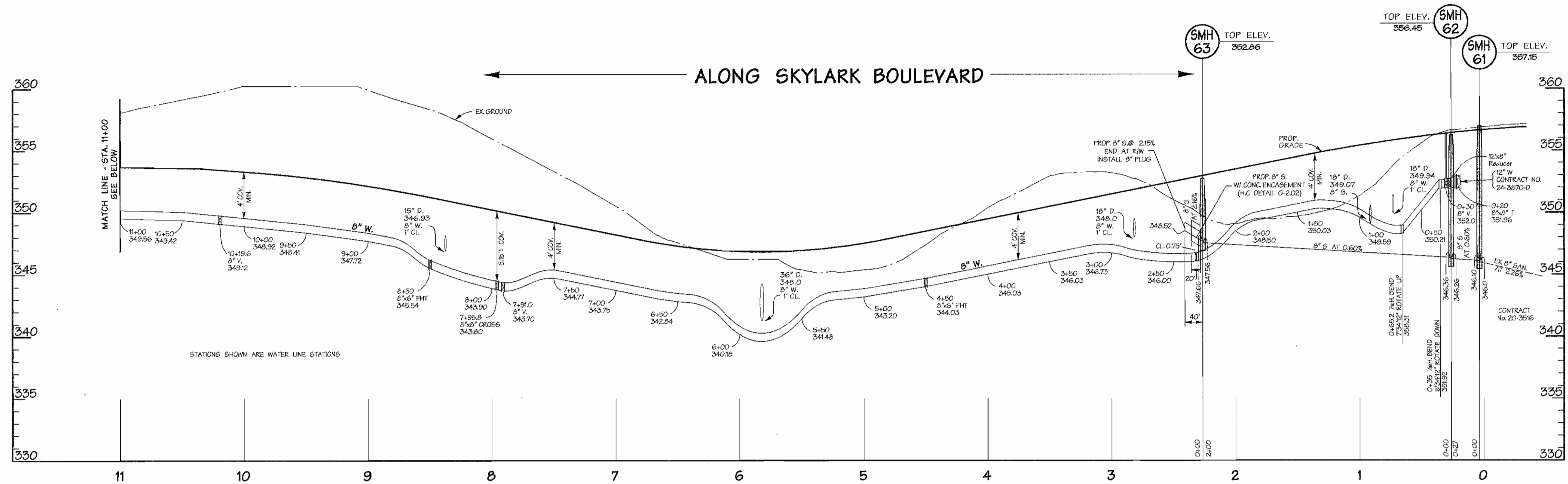
**DMW**  
Daft · McCune · Walker, Inc.  
A Team of Land Planners, Landscape Architects, Engineers, Surveyors & Environmental Professionals  
200 East Pennsylvania Avenue  
Towson, Maryland 21286  
410 296 3333  
Fax 296 4705



DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	DMW	ADD 8" W IN THREE MOONS WAY & ROAD "A"	2/5/03
	DMW	ADD 8" WATER CONN. @ E 16+50	2/5/03
	KCI	AS BUILT DATA ADDED TO PLAN	8/15/02
DATE:	4-26-01	BY NO.	
		REVISION	DATE

PROPOSED 8" WATER & 8" SANITARY SEWER  
SKYLARK BOULEVARD - STA. 0+00 - 27+65  
600 SCALE MAP NO. 47 BLOCK NO. 7&B

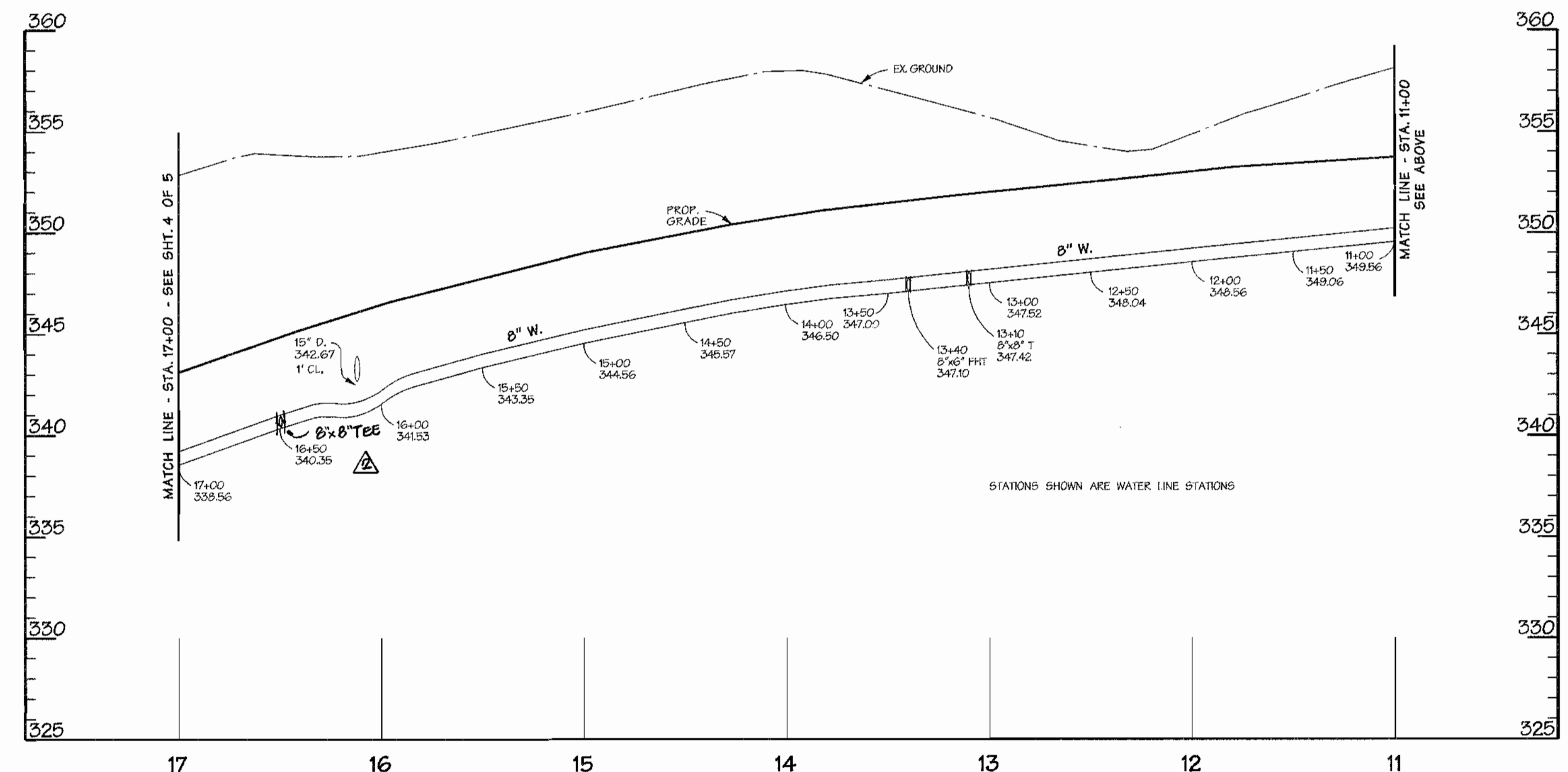
**EMERSON**  
SKYLARK BOULEVARD  
PROPOSED 8" WATER & 8" SEWER  
SECTION 2, PHASE 1-A  
TAX MAP 47 P10 PARCEL P. 837, P. 3, P. 462  
6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND  
CONTRACT NO. 24-3965-D  
SCALE: 1" = 50'  
SHEET 2 of 5



**PROFILE**

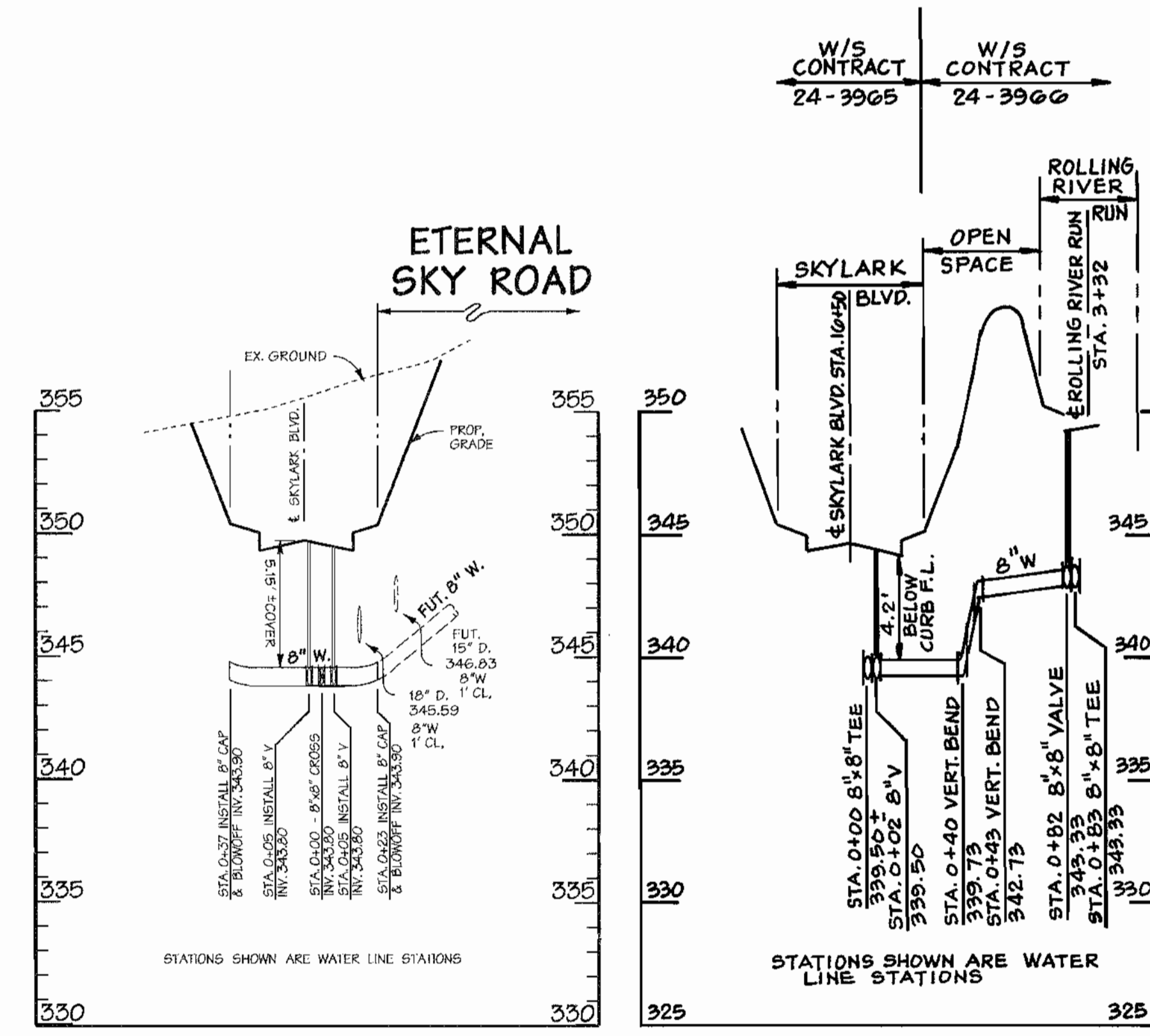
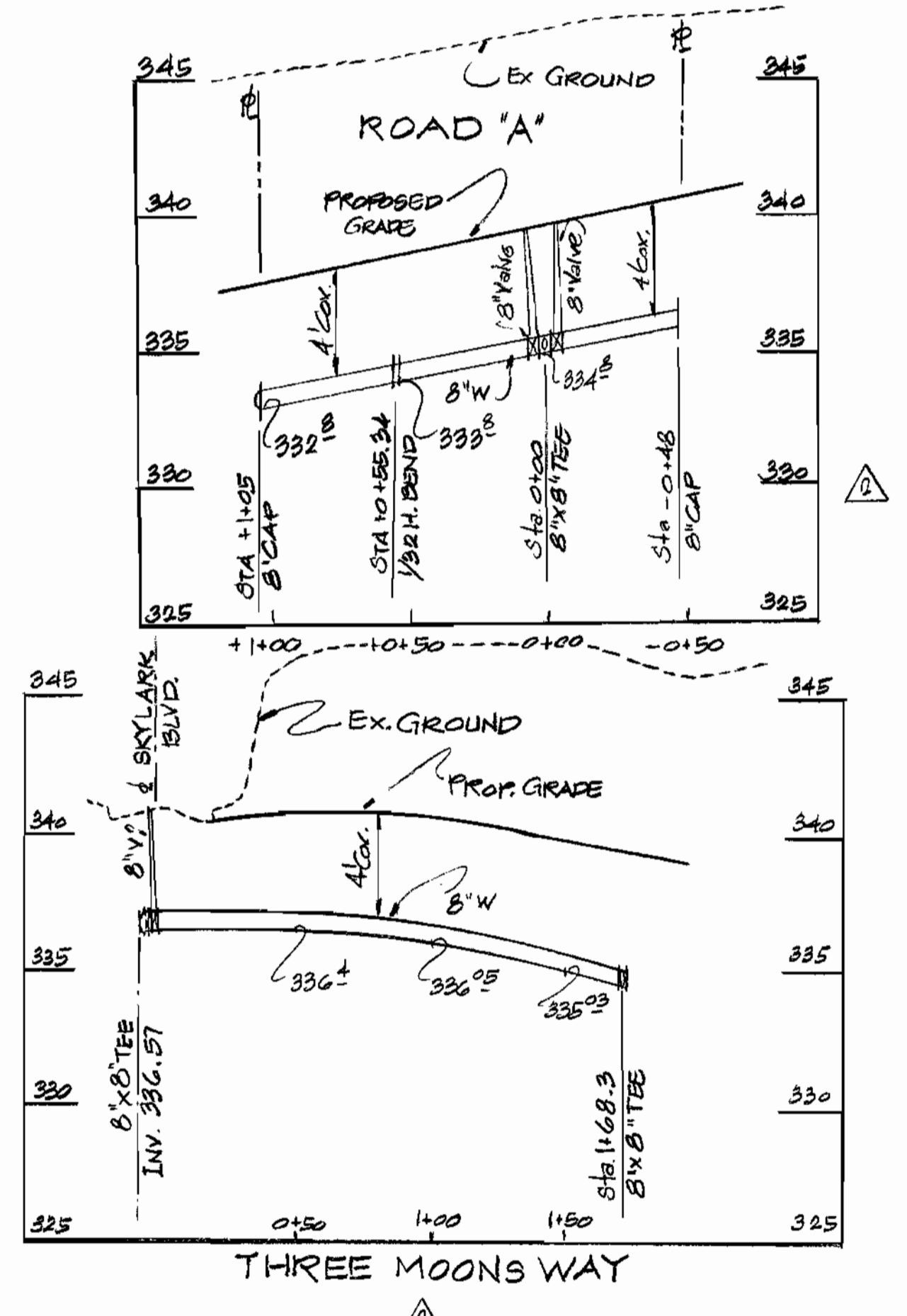
SCALE: HORIZ. 1"=50'  
VERT. 1"=5'

**ALONG SKYLARK BOULEVARD**



**PROFILE**

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

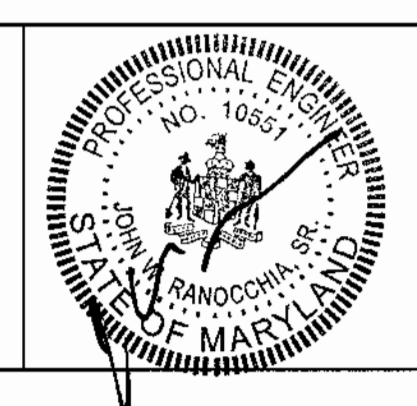


**AS BUILT**  
DATE: JAN. 2004

DEPARTMENT OF PUBLIC WORKS  
HOWARD COUNTY, MARYLAND  
  
Robert H. Bauman 8-2-01  
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING  
HOWARD COUNTY, MARYLAND  
  
Chad Bauman 9/15/01  
CHIEF-DEVELOPMT ENGINEERING DIVISION - DATE

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Daft · McCune · Walker, Inc.  
A Team of Land Planners, 200 East Pennsylvania Avenue  
Landscape Architects, Towson, Maryland 21286  
Engineers, Surveyors & Environmental Professionals 410 296 3333  
Fax 410 296 4703



DESIGN BY:	MAT			
DRAWN BY:	DMW	△	ADDED 8" x 8" TEE @ STA. 16+50 SKYLARK BL.	
CHECKED BY:	KMF	△	ADDED ROAD 'A' WATER PROFILE	
DATE:	DMW	△	ADDED THREE MOONS WAY WATER PROFILE	2/18/03
DATE:	DMW	△	STREET NAME	11/29/01
DATE:	4-26-01	BY	NO.	REVISION

PROPOSED 8" WATER & 8" SEWER PROFILES  
SKYLARK BOULEVARD - STA. 0+00 - 17+00  
  
600 SCALE MAP NO. 47 BLOCK NO. 7&8

**EMERSON**  
FORMERLY KEY PROPERTY SKYLARK BOULEVARD  
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. 24-3965-D  
  
SCALE: 1"=50'  
SHEET 3 of 5

**GENERAL NOTES**

**PART I**

- 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 (NORTH AMERICAN DATUM OF 1983 (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" MINIMUM OR TUNNEL AS REQUIRED. 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 THE BRACING OF ADDITIONAL POLES, ANY COST INCURRED BY THE OWNER FOR BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONEY OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- FOR DETAILS NOT SHOWN ON THE DRAWINGS AND FOR MATERIALS AND CONSTRUCTION METHODS USE HOWARD COUNTY DESIGN MANUAL VOLUME IV, STANDARD SPECIFICATIONS AND DETAIL FOR CONSTRUCTION (LATEST EDITION). 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 UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

STATE HIGHWAY ADMINISTRATION 1-410-531-9533  
 BGA&E CO. CONTRACTOR SERVICES 1-410-850-4620  
 BGA&E CO. UNDER GROUND DAMAGE CONTROL 1-410-787-9068  
 MISS UTILITY 1-800-257-7777  
 COLONIAL PIPELINE CO. 1-410-795-1390  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS 1-410-313-4800  
 BUREAU OF UTILITIES

- 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 THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 313-2480 AT LEAST FIVE WORKING DAYS BEFORE ANY OPEN CUT OF ANY COUNTY ROAD OR BRONGLACKING 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 18.11(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 3-1/2" COVER UNLESS OTHERWISE NOTED.
- VALVES ADJACENT TO TREES SHALL BE STRAPPED TO TREES.
- 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 RESTRAINED 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 FOR INSIDE METER SETTING UNLESS OTHERWISE NOTED ON PLANS OR IN SPECIFICATIONS.
- SPRINKLER SYSTEM FOR ALL TOWNHOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1" CONNECTION WITH A 3/4" METER.
- TWIN WATER HOUSE CONNECTION SHALL BE AS PER HOWARD COUNTY STANDARD DETAIL W3.23.

**PART III - SEWER**

- ALL SEWER MAINS SHALL BE DIP AND P.V.C. UNLESS OTHERWISE NOTED.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.
- FORCE MAINS SHALL BE D.I.P. ONLY.
- MANHOLES SHOWN WITH 12" AND 16" WALLS ARE FOR BRICK MANHOLES ONLY.
- MANHOLES DESIGNATED W.T. IN PLAN AND PROFILE SHALL HAVE WATERTIGHT FRAME AND COVERS, STANDARD DETAIL G5.52, WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-6" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.

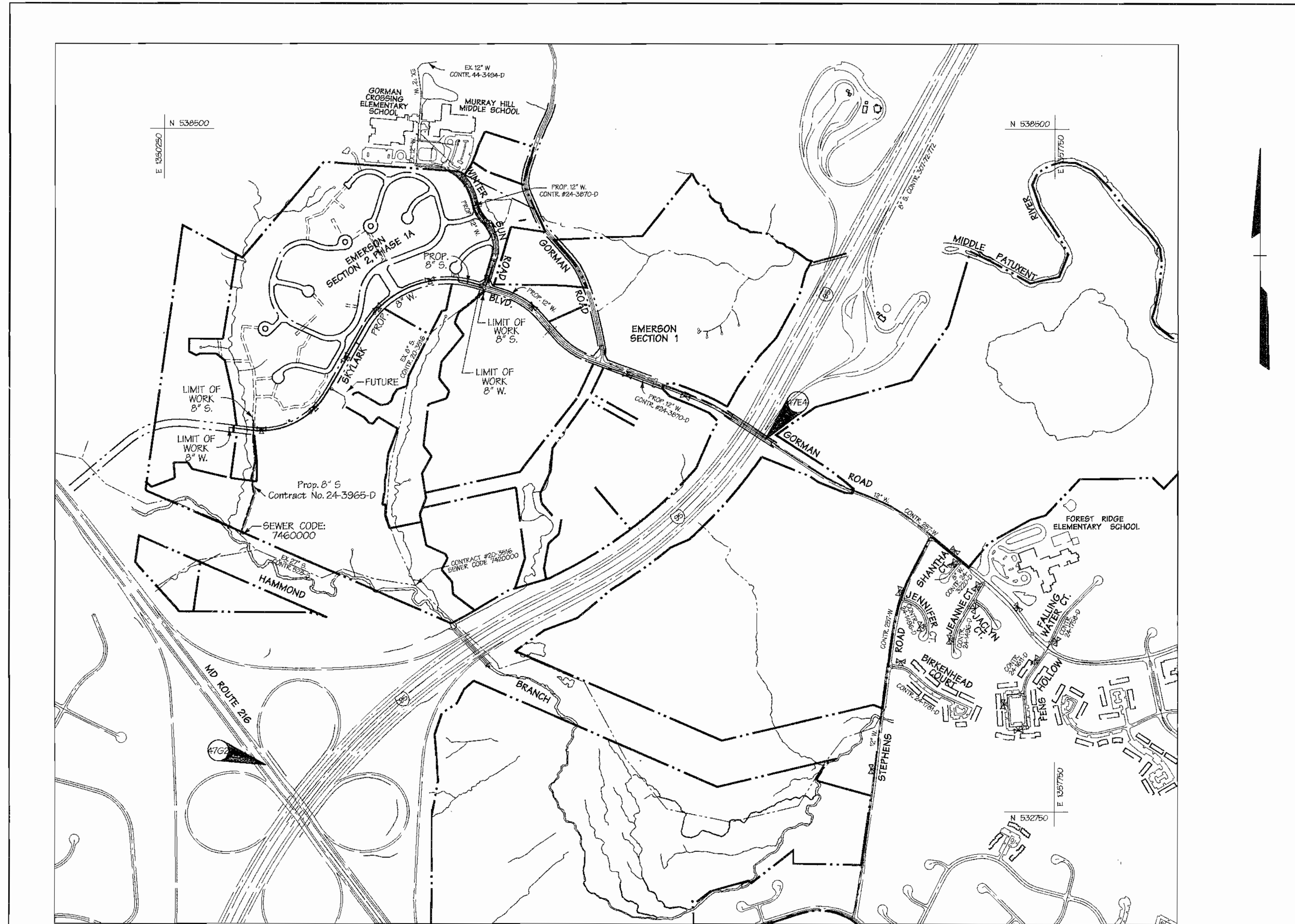
# EMERSON WATER AND SEWER

## SECTION 2, PHASE 1-A, SKYLARK BOULEVARD

HOWARD COUNTY, MARYLAND DEPARTMENT OF PUBLIC WORKS

### CONTRACT NO. 24-3965-D

SHEET INDEX	
NO.	DESCRIPTION
1	TITLE SHEET
2	PROP. 8" W. & 8" S. PLAN - SKYLARK BOULEVARD E. STA. 0+00 - 27+65
3	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD E. STA. 0+00 - 17+00
4	PROP. 8" W. & 8" S. PROFILES - SKYLARK BOULEVARD E. STA. 17+00 - 27+65
5	PROP. 8" S. PLAN & PROFILE



**VICINITY MAP**

SCALE: 1"=600'

TYPE OF BUILDING:	N/A
NO. OF LOTS / PARCELS:	N/A
NO. OF WATER HOUSE CONNECTIONS:	N/A
NO. OF SEWER HOUSE CONNECTIONS:	N/A
DRAINAGE AREA:	LITTLE PATUXENT
TREATMENT PLANT:	LITTLE PATUXENT WATER QUALITY MANAGEMENT CENTER - SAVAGE HOWARD COUNTY

WATER CODE: E-15  
 TEST GRADIENT: 700  
 SEWER CODE: 74200007460000

QUANTITIES					
ITEM	QUANTITIES ESTIMATED	QUANTITIES	AS-BUILT		
			TYPE	MANUFACTURER/SUPPLIER	
8" P.V.C. SEWER	105'	1105'	SD2 35	J.M. MANUFACTURING	
8" D.I.P. SEWER	150'	159'	CL-52	ATLANTIC STATES	
STD. MH	0	8	PRECAST	ATLANTIC CONC. PRODUCTS	
TYPE B DROP MH	1	1		"	
AIR RELEASE MH	-	-		"	
4" D.I.P. WATER	-	3151'			
6" D.I.P. WATER	120'	120'	CL-52	ATLANTIC STATES	
8" D.I.P. WATER	3151'	2860'	CL-52	"	
6" VALVE	5	5	RESERVE GATE	MULLER COMPANY	
8" VALVE	10	10	"	"	
FIRE HYDRANTS	5	5	A43 CANTON	"	
8" x 8" CROSS	1	-			
8" x 8" TEE	2	4	M.J.	UNION FOUNDRY	
8" x 6" TEE	5	5	M.J.	"	
8" CAP & BUT.	5	5	M.J.	"	
8" CAP & BUT.	-	-			
12" x 8" RED.	1	1	M.J.	"	
8" x 8" RED.	-	-			
8" x 4" RED.	-	-			
NAME OF UTILITY CONTRACTOR: H.T.I. INC.					
SURVEY AND DRAFTING DIVISION AS-BUILT DATE: JAN. 2004					

**BENCHMARK DESCRIPTION**

COORDINATES IN MARYLAND NAD83(91) (HORIZONTAL) AND NGVD29 (VERTICAL) DATUMS.

47E4 NORTHING: 163326.2295  
 EASTING: 413136.2550  
 ELEVATION: 338.909ft.

47G2 NORTHING: 162440.1212  
 EASTING: 411653.9279  
 ELEVATION: 364.210ft.

**AS BUILT**

DATE: JAN. 2004

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

Signature: *John Myers* DATE: 8/8/01

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

Signature: *John Williams* DATE: 8/8/01

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

DEPARTMENT OF PUBLIC WORKS  
 HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING  
 HOWARD COUNTY, MARYLAND

Signature: *Robert M. Bauman* 8-2-01  
 CHIEF - BUREAU OF UTILITIES - DATE

Signature: *He [unclear]* 8/15/01  
 CHIEF-DEVELOPMT ENGINEERING DIVISION - DATE

**DMW**  
 Daft · McCune · Walker, Inc.  
 A Team of Land Planners, 200 East Pennsylvania Avenue  
 Landscape Architects, Towson, Maryland 21286  
 Engineers, Surveyors & 410 256 3333  
 Environmental Professionals Fax 256 4705



DESIGN BY:	MAT		
DRAWN BY:	KMF		
CHECKED BY:	DMW	REVIS WATER QUANTITY	2/5/02
	KCI	AS-BUILT DATA ADDED TO PLAN	8/15/02
DATE:	DMW	STREET NAME	11/29/01
4-26-01	BY NO.	REVISION	DATE

PROPOSED WATER & SEWER TITLE SHEET

600 SCALE MAP NO. 47 BLOCK NO. 7&B

**EMERSON**  
 FORMERLY KEY PROPERTY SKYLARK BOULEVARD  
 SECTION 2, PHASE 1-A

TAX MAP 47 P10 PARCEL P. 237, P. 3, P. 462  
 6TH ELECTION DISTRICT OF HOWARD COUNTY, MARYLAND

CONTRACT NO. 24-3965-D

SCALE: AS SHOWN  
 SHEET 1 of 5