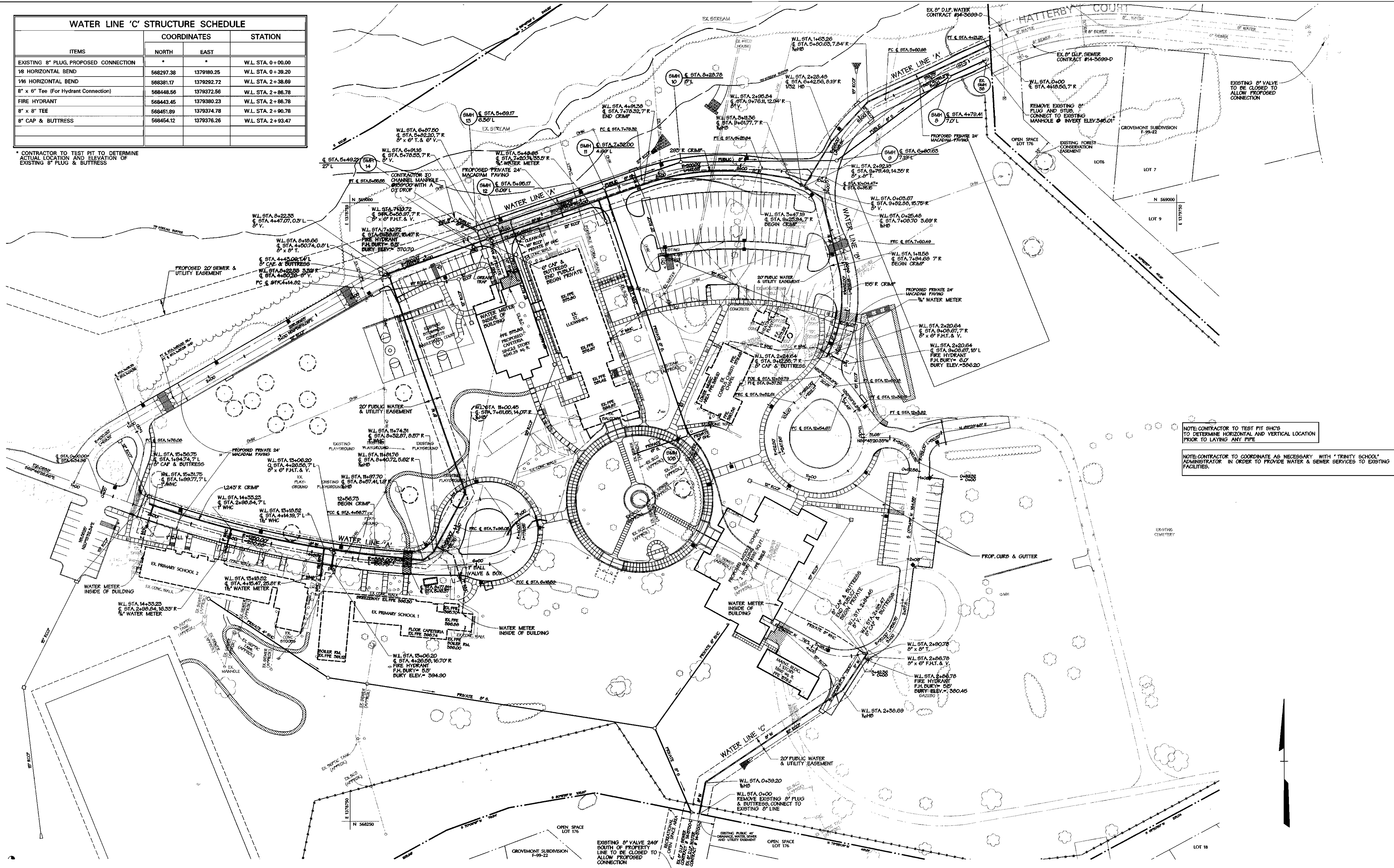


WATER LINE 'C' STRUCTURE SCHEDULE			
ITEMS	COORDINATES		STATION
	NORTH	EAST	
EXISTING 8" PLUG, PROPOSED CONNECTION	*	*	W.L. STA. 0+00.00
1/8 HORIZONTAL BEND	568297.38	1379180.25	W.L. STA. 0+39.20
1/8 HORIZONTAL BEND	568381.17	1379292.72	W.L. STA. 2+38.69
8" x 6" Tee (For Hydrant Connection)	568448.56	1379372.56	W.L. STA. 2+86.78
FIRE HYDRANT	568443.45	1379380.23	W.L. STA. 2+86.78
8" x 8" TEE	568451.89	1379374.78	W.L. STA. 2+90.78
8" CAP & BUTTRESS	568454.12	1379376.26	W.L. STA. 2+93.47

* CONTRACTOR TO TEST PIT TO DETERMINE ACTUAL LOCATION AND ELEVATION OF EXISTING 8" PLUG & BUTTRESS



NOTE: CONTRACTOR TO TEST PIT SHC'S TO DETERMINE HORIZONTAL AND VERTICAL LOCATION PRIOR TO LAYING ANY PIPE

NOTE: CONTRACTOR TO COORDINATE AS NECESSARY WITH "TRINITY SCHOOL" ADMINISTRATOR IN ORDER TO PROVIDE WATER & SEWER SERVICES TO EXISTING FACILITIES.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

Richard S. ... 11-22-99
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

... 12/2/99
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:	JWM
DRAWN BY:	JWM
CHECKED BY:	
DATE:	OCT 20, 1999
BY NO.	
REVISION	
DATE	

WATER & SEWER PLAN

600 SCALE MAP NO. 31 BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND

OWNER: Baltimore Province of the Sisters of Notre Dame de Namur, Inc. DEVELOPER: Board of Trustees, Trinity School
Sister Bernadette Glodok, President 4885 Ilchester Road, Ellicott City, Maryland 21043

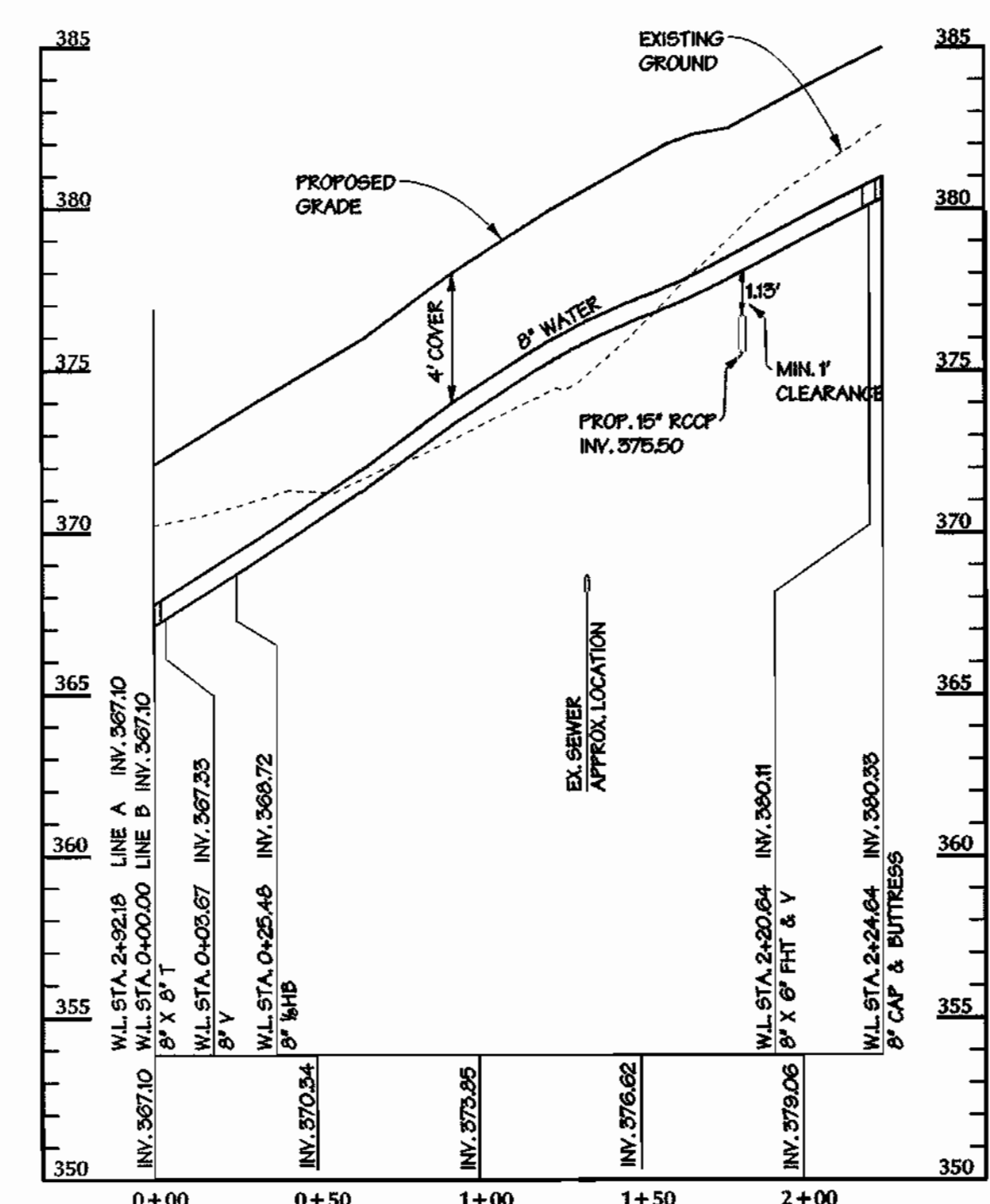
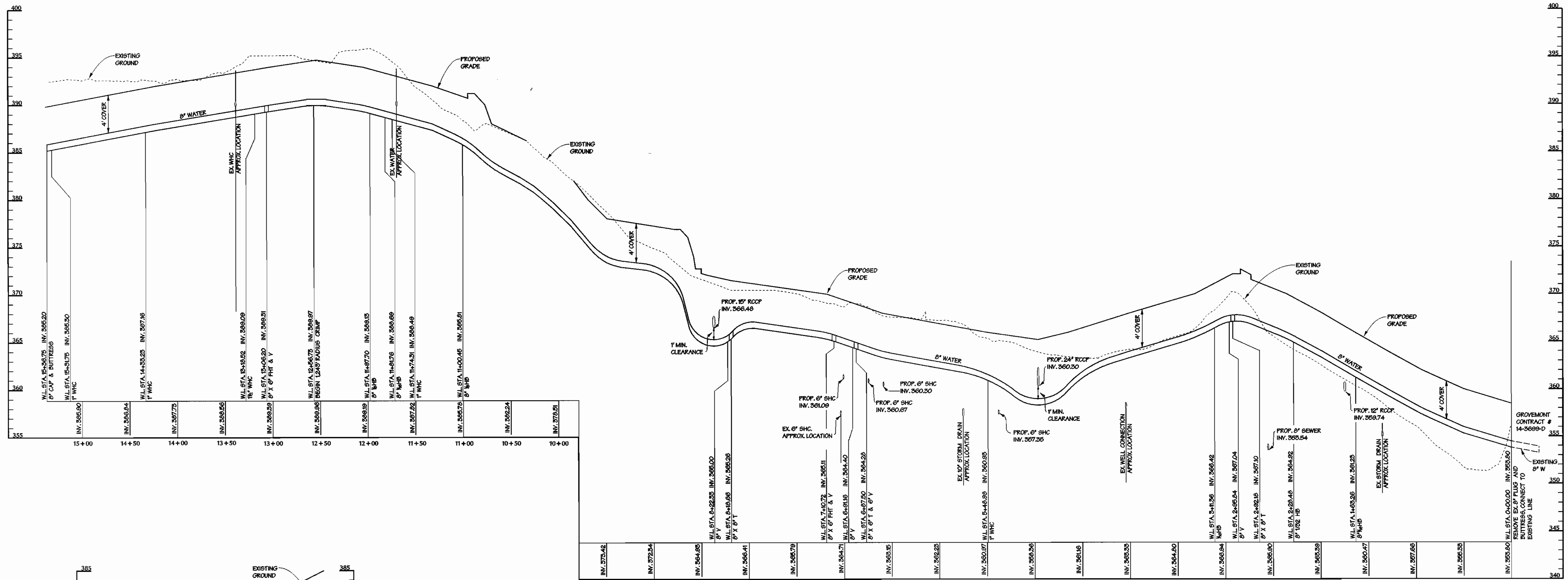
CONTRACT NO. 14-3785-D

1" = 50'

SHEET 2 OF 4

7/9 1/99 11 08 4632 1999 AC 09711/00712/02

7/9 1/99 11 08 4632 1999 00709/0930/02



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

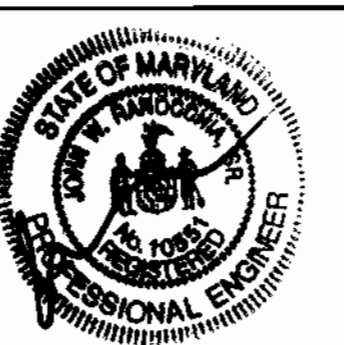
Robert Berman 11-22-99
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

Michael J. ... 12/2/99
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

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



DESIGN BY:	JWM			
DRAWN BY:	JWM			
CHECKED BY:				
DATE:	OCT 20, 1999	BY	NO.	REVISION
				DATE

WATER & SEWER PROFILES

600 SCALE MAP NO. 31 BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND

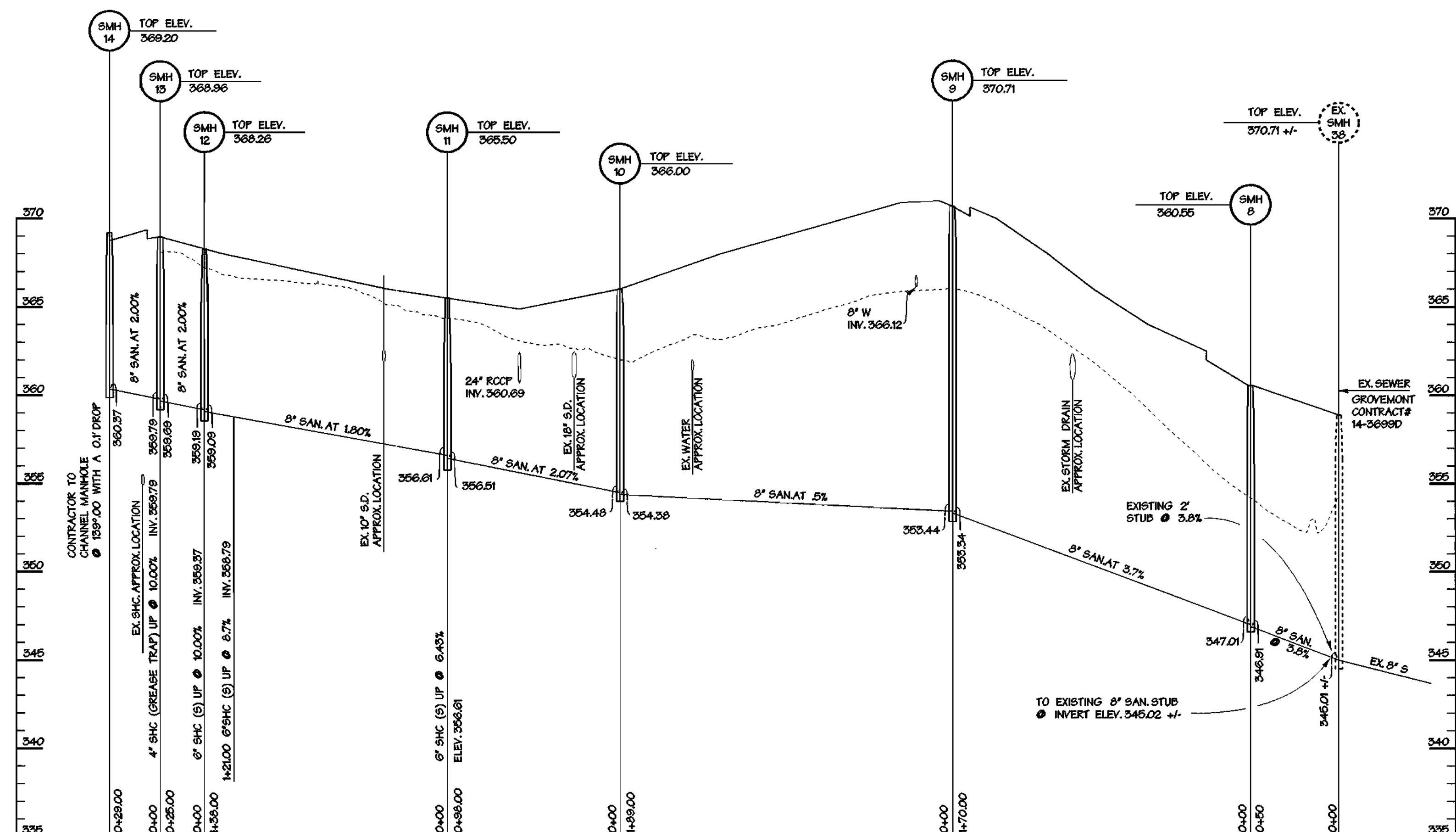
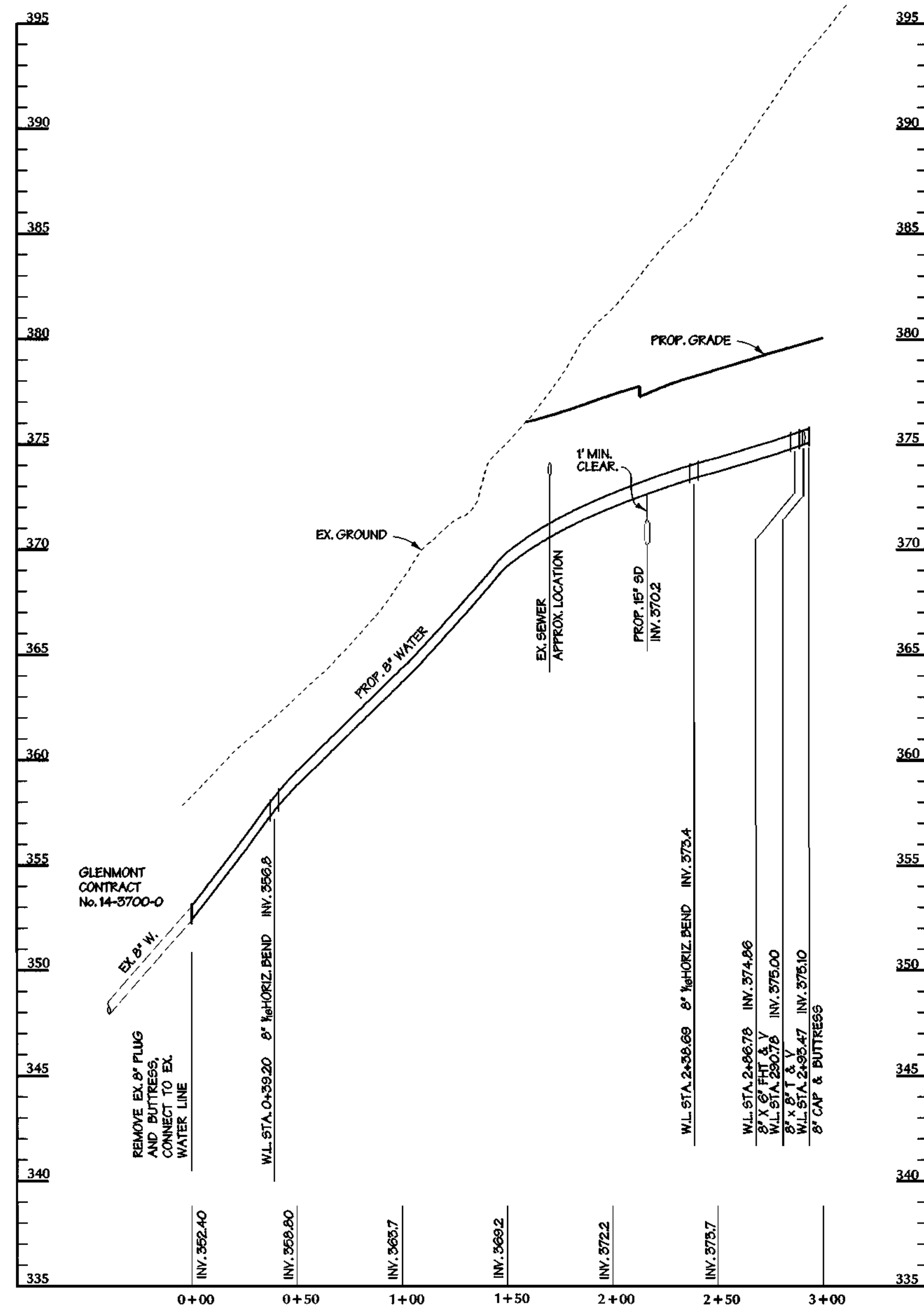
OWNER: Baltimore Province of the Sisters of Notre Dame de Namur Sister Bernadette Glodak
DEVELOPER: Board of Trustees, Trinity School
4985 Heister Road, Ellicott City, Maryland 21043

CONTRACT NO. 14-3785-D

AS SHOWN SHEET 3 OF 4

The Nov. 9 11:41:17 1999 ac:07174/07174.dwg

The Nov. 9 11:41:17 1999 ac:07174/07174.dwg



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

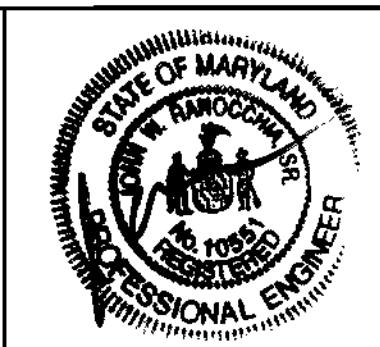
[Signature] 11-22-99
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 12/2/99
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:	PMH	1	No CHANGE THIS SHEET	10-12-91
DRAWN BY:				
CHECKED BY:				
DATE:	BY	NO.	REVISION	DATE
April 29, 1999				

600 SCALE MAP NO. 31 BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND

OWNER: Baltimore Province of the Sisters of Notre Dame de Namur Sister Bernadette Glodak
DEVELOPER: Board of Trustees, Trinity School
4885 Ilchester Road, Ellicott City, Maryland 21043

CONTRACT NO. 14-3785-D

AS SHOWN

SHEET
4 OF 4

Contract No. 14-3785-D

Trinity School

PUBLIC WATER & SEWER - PHASE 1 CONSTRUCTION PLANS

Howard County, Maryland Department of Public Works

QUANTITIES				
AS-BUILT				
ITEMS	QUANTITIES ESTIMATED	QUANTITIES	TYPE	MANUFACTURER /SUPPLIER
8" W.	1429 LF			
6" W.	40 LF			
1 1/2" WHC	38 LF			
1" WHC	102 LF			
18 HB	1			
1/8 HB	4			
1/32 HB	1			
8" X 8" TEE	2			
8" X 6" TEE	4			
8" CAP	4			
6" CAP	1			
8" VALVE	4			
6" VALVE	4			
3/4" METER VAULT	2			
1 1/2" METER VAULT	1			
FIRE HYDRANT	3			
1" BALL VALVE & BOX	0			
8" SEWER	677 LF.			
MANHOLES	7			
6" SHC	41 L.F.			
4" SHC	45 L.F.			

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

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.
- ALL VERTICAL CONTROLS ARE BASED ON U.S.G.S. DATA.
- ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS, UNLESS OTHERWISE NOTED.
- CLEAR ALL UTILITIES BY A MINIMUM OF 12'. 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	410-531-5535
BGA&E CO. CONTRACTOR SERVICES	410-850-4620
BGA&E CO. UNDER GROUND DAMAGE CONTROL	410-787-9038
MESS UTILITY	1-800-257-7777
COLONIAL PIPELINE CO.	410-795-1590
HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS BUREAU OF UTILITIES	410-513-4300

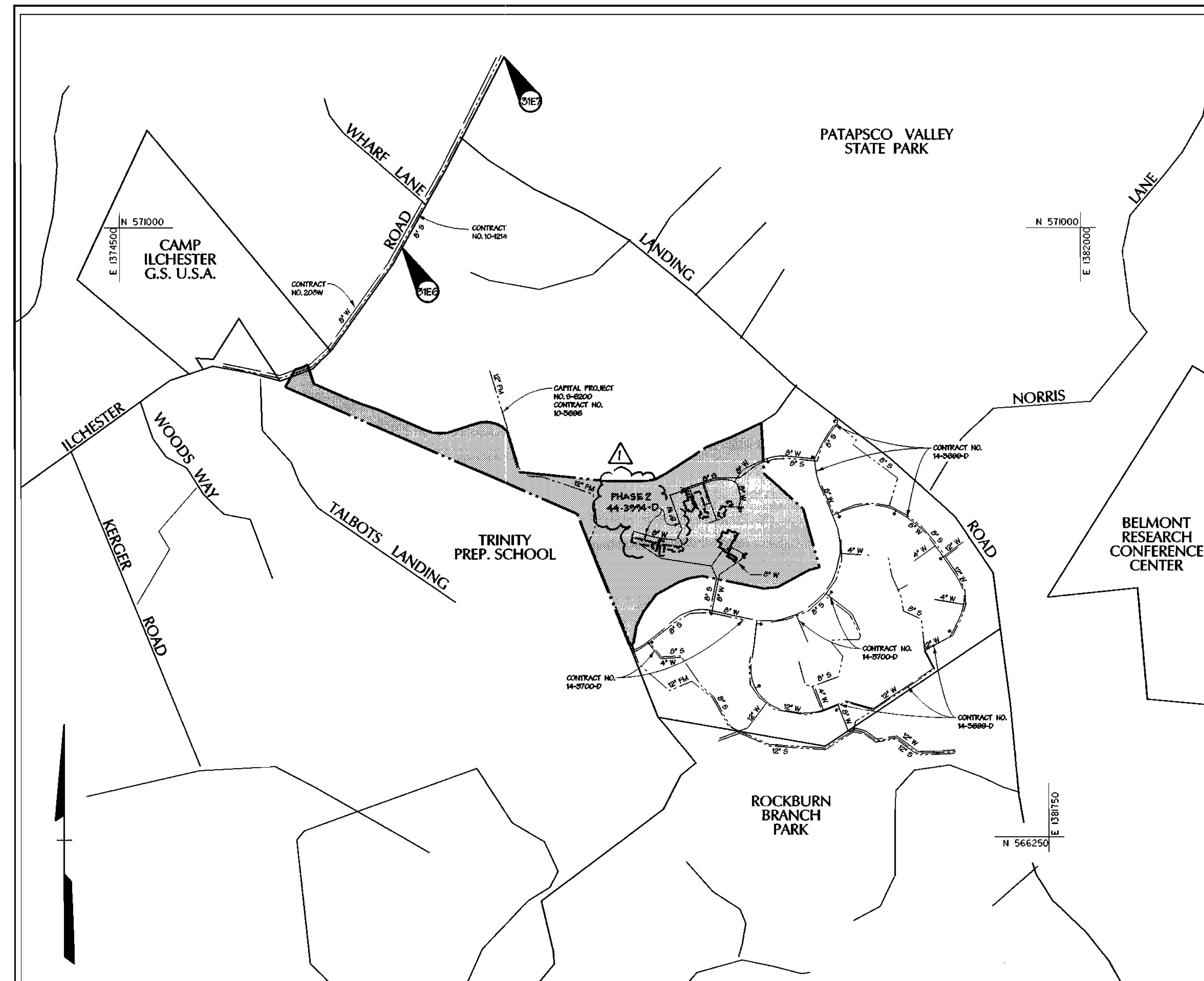
- TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE TREES, STUMPS, AND ROOTS ALONG LINE OF EXCAVATION. PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT (410) 262-2400 AT LEAST FIVE 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'-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.
- ALL SINGLE WATER HOUSE CONNECTIONS SHALL BE 1". ALL DOUBLE WATER HOUSE CONNECTIONS SHALL BE 1 1/2" WITH 1" BRANCHES.
- ALL WATER METER SIZES SHOWN ON PLAN VIEW.

PART III - SEWER

- ALL SEWER MAINS SHALL BE D.I.P. OR P.V.C. UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A JOINT IN ALL SEWER MAINS WITHIN 2'-0" OF EXTERIOR MANHOLE WALL.
- 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 0552 WHERE WATERTIGHT MANHOLE FRAME AND COVER IS USED, SET TOP OF FRAME 1'-0" ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- HOUSE(S) WITH THE SYMBOL "C.N.S." INDICATES THAT CELLAR CANNOT BE SERVED.
- ALL SEWER HOUSE CONNECTIONS SHALL BE 4".



TYPE OF BUILDING: PRIVATE SCHOOL
 NO. OF LOTS / PARCELS: 1
 NO. OF WATER HOUSE CONNECTIONS: 2
 NO. OF SEWER HOUSE CONNECTIONS: 2
 DRAINAGE AREA: PATAPSCO
 TREATMENT PLANT: PATAPSCO WASTEWATER TREATMENT PLANT

VICINITY MAP

SCALE: 1" = 600'

CONTRACT NO. 14-3785-D

WATER CODE: D-03
 TEST GRADIENT: 700
 SEWER CODE: 1254550

BENCHMARK

DESCRIPTION

#31E6
 N 570852.2717
 E 1376700.6467
 3/4" REBAR 0.8' BELOW SURFACE 5' SOUTHWEST OF ILCHESTER ROAD PAVING 500'+- WEST OF WHARF LANE.
 #31E7
 N 572355.2503
 E 1377504.0532
 3/4" REBAR 0.8' BELOW SURFACE 9' SOUTHEAST OF ILCHESTER ROAD PAVING 250'+- WEST OF BEECHWOOD ROAD.
 HO. CO. BMR#2748004
 ELEV. 564.78

SHEET INDEX

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	WATER & SEWER PLANS
3	WATER PROFILES
4	WATER & SEWER PROFILES

REVIEWED FOR NATURAL RESOURCE CONSERVATION SERVICE AND MEETS TECHNICAL REQUIREMENT

Clay Simmons 12/1/99
 SIGNATURE DATE

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

APPROVED *John R. Poluto* 12/1/99
 HOWARD S.C.D. DATE

SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE SPECIFICATIONS AND SITE DEVELOPMENT PLAN SDP-99-155

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:	DATE:	BY	NO.	REVISION	DATE
JWM	OCT 20, 1999				
DMW			1	REMOVE PHASE 2 FROM CONTRACT	10-12-01
JWM					

TITLE SHEET

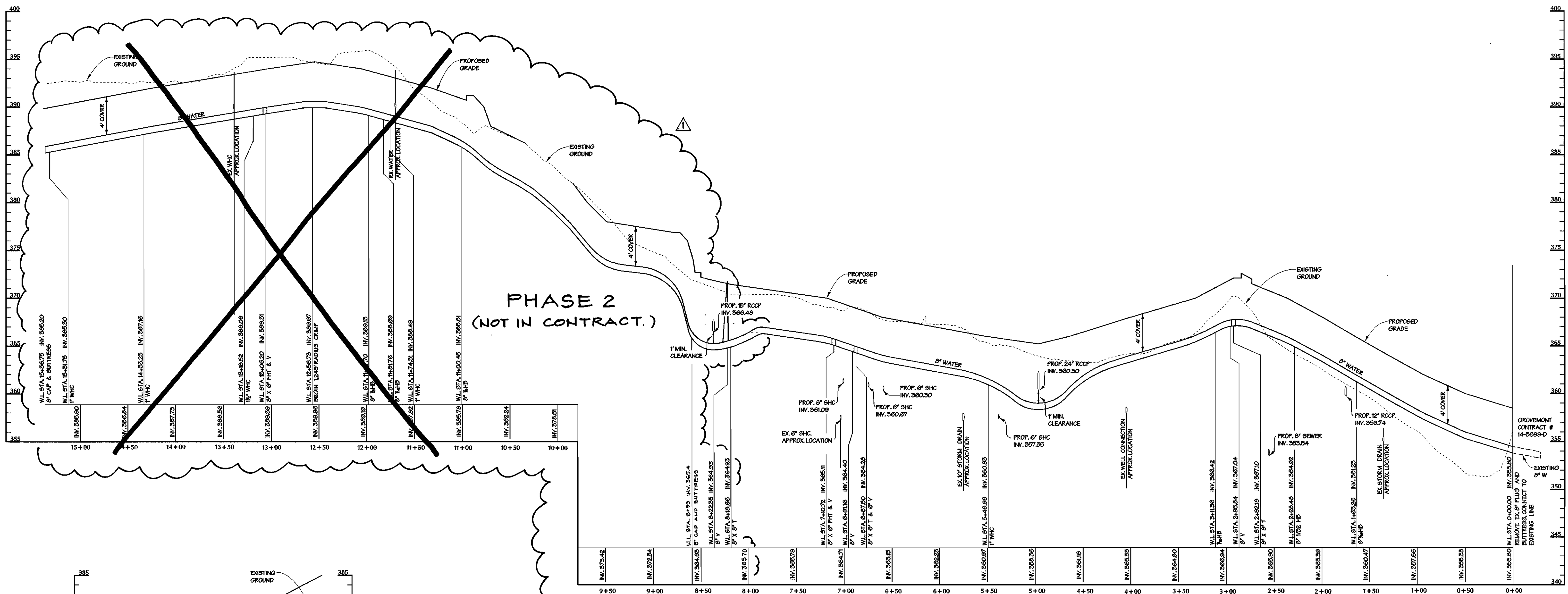
Trinity School

HOWARD COUNTY MARYLAND

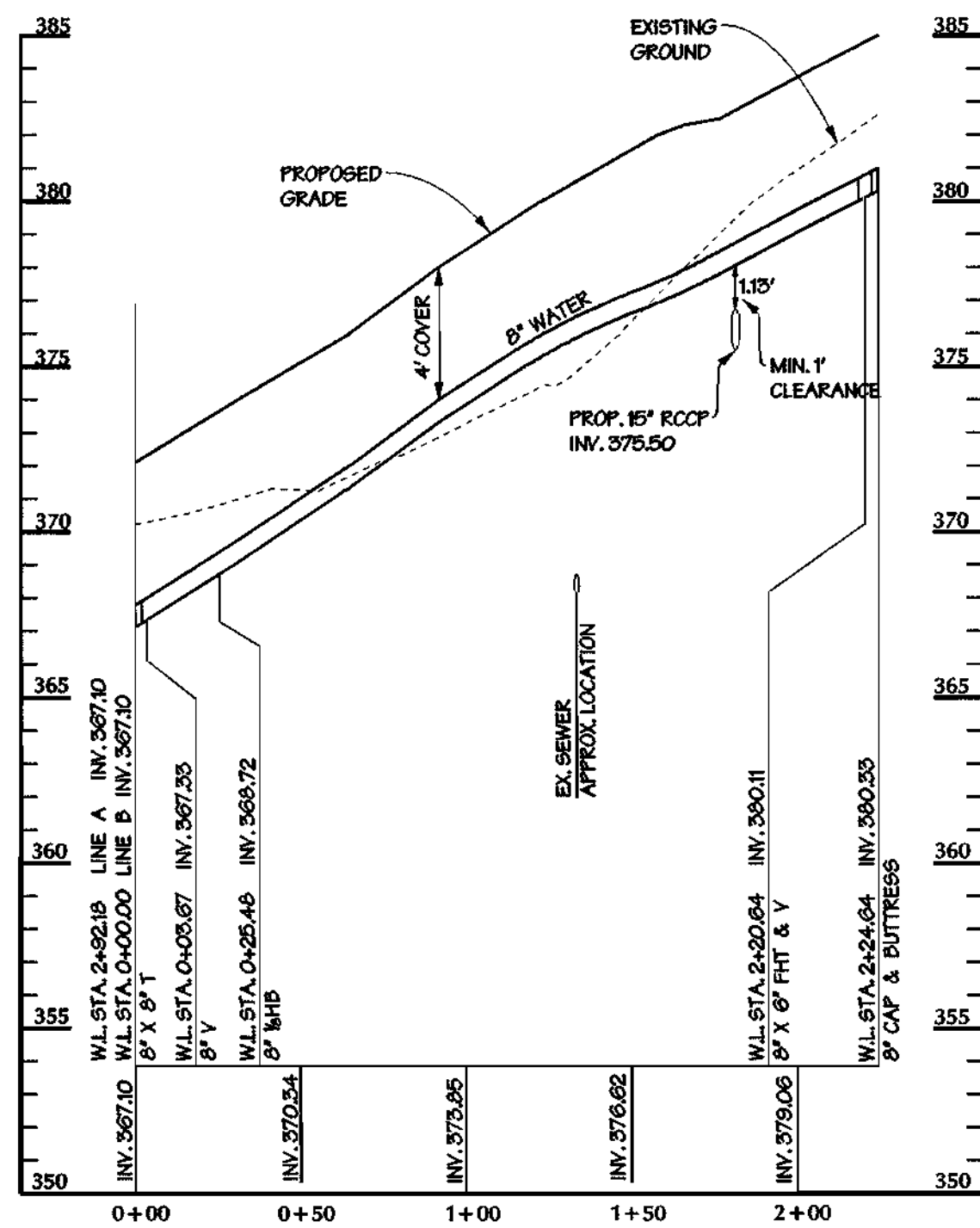
OWNER: Baltimore Province of the Sisters of Notre Dame de Namur Sister Bernadette Glodek
 DEVELOPER: Board of Trustees, Trinity School
 4885 Ilchester Road, Ellicott City, Maryland 21043
 CONTRACT NO. 14-3785-D

AS SHOWN

SHEET 1 OF 4



WATER LINE 'A'
SCALE: HORIZ. 1" = 50'
VER. 1" = 5'



WATER LINE 'B'
SCALE: HORIZ. 1" = 50'
VER. 1" = 5'

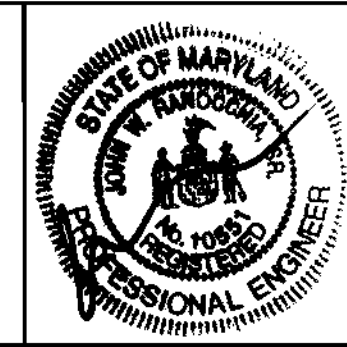
DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

11-22-99
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

12/2/99
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

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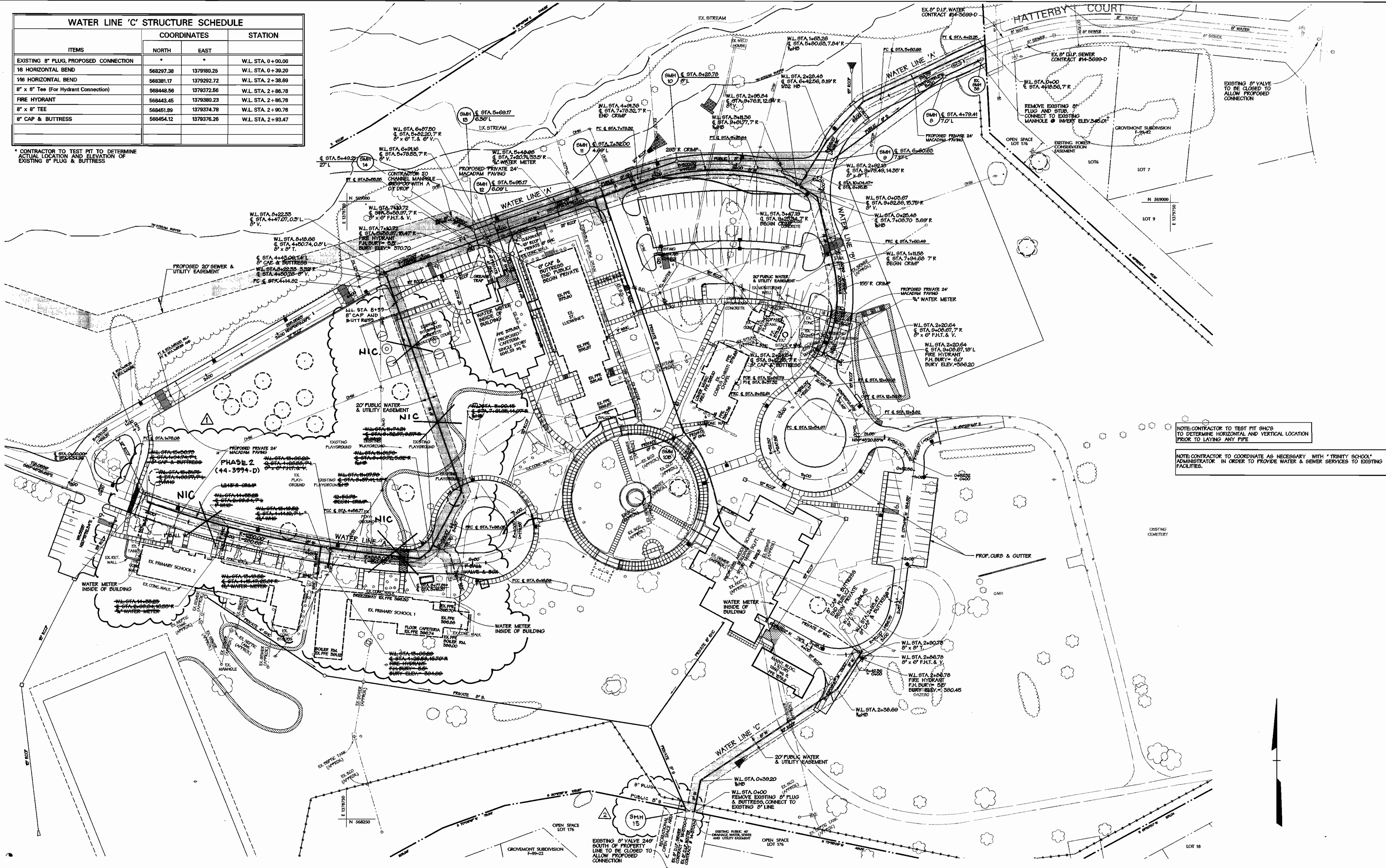
DESIGN BY:	DMJ	1	REMOVE PHASE 2 FROM CONTRACT. GET LE OF WATER LINE	10/2/99
DRAWN BY:	JWM			
CHECKED BY:				
DATE:	OCT 20, 1999	BY NO.	REVISION	DATE

WATER & SEWER PROFILES
600 SCALE MAP NO. 31
BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND
OWNER: Baltimore Province of the Sisters of Notre Dame de Namur Sister Bernadette Glodet
DEVELOPER: Board of Trustees, Trinity School
4885 Ilchester Road, Ellicott City, Maryland 21043
CONTRACT NO. 14-3785-D
AS SHOWN
SHEET 3 OF 4

WATER LINE 'C' STRUCTURE SCHEDULE			
ITEMS	COORDINATES		STATION
	NORTH	EAST	
EXISTING 8" PLUG, PROPOSED CONNECTION	*	*	W.L. STA. 0+00.00
18 HORIZONTAL BEND	568297.38	1379180.25	W.L. STA. 0+39.20
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NOTE: CONTRACTOR TO TEST PIT SMH'S TO DETERMINE HORIZONTAL AND VERTICAL LOCATION PRIOR TO LAYING ANY PIPE

NOTE: CONTRACTOR TO COORDINATE AS NECESSARY WITH 'TRINITY SCHOOL' ADMINISTRATOR IN ORDER TO PROVIDE WATER & SEWER SERVICES TO EXISTING FACILITIES.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

[Signature] 11-22-99
CHIEF - BUREAU OF UTILITIES - DATE

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

[Signature] 12/2/99
CHIEF - DEVELOPMENT ENGINEERING DIVISION - DATE

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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:	DHW 1	REMOVE PHASE 2 FROM CONTRACT #41 LP OF WATER LINE	10/12/99
DRAWN BY:	DHW 2	ADDED SMH 15 + 8" SEWER	11/19/99
CHECKED BY:	JWM		
DATE:	OCT 20, 1999		
BY NO.		REVISION	DATE

WATER & SEWER PLAN

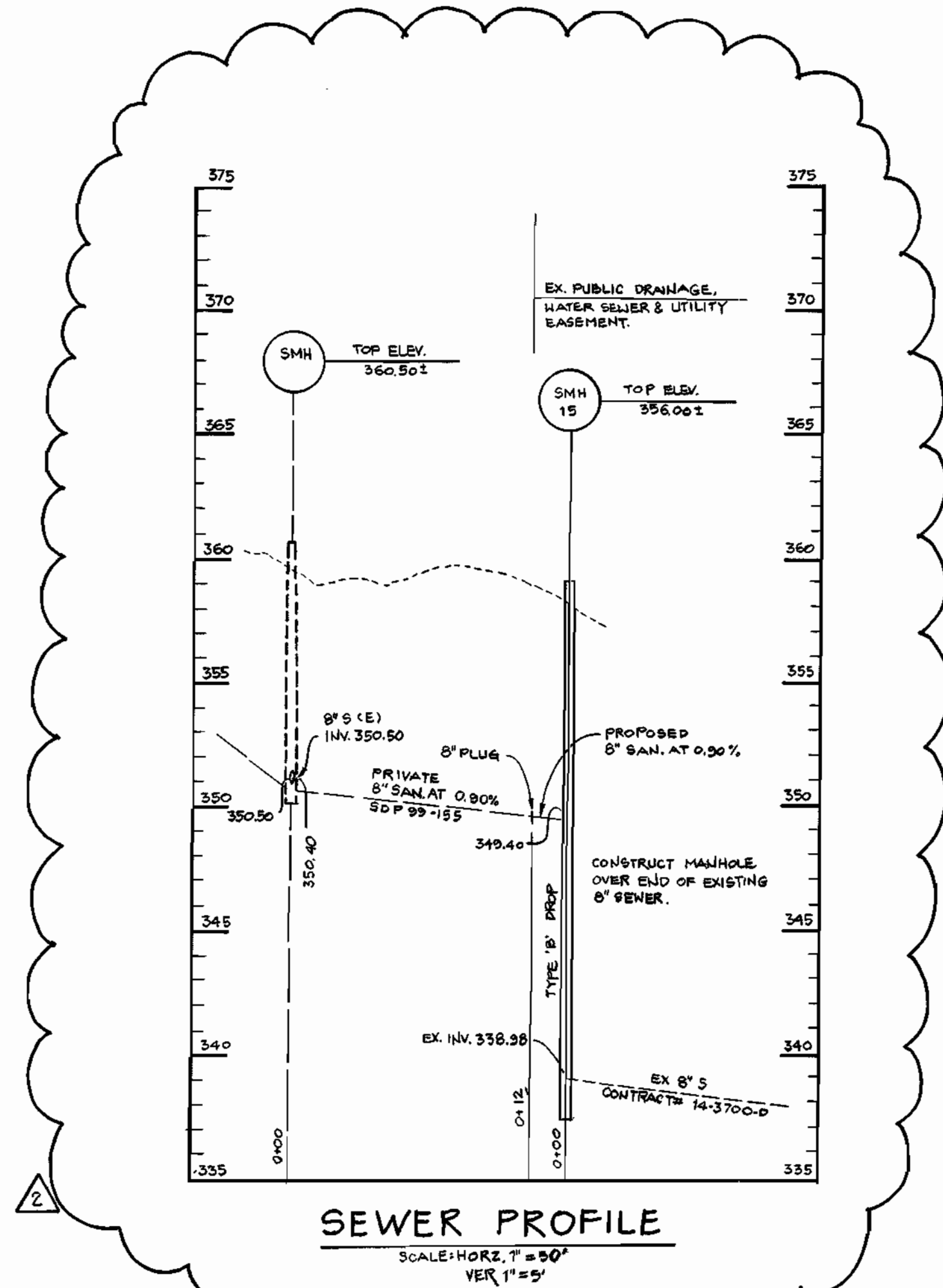
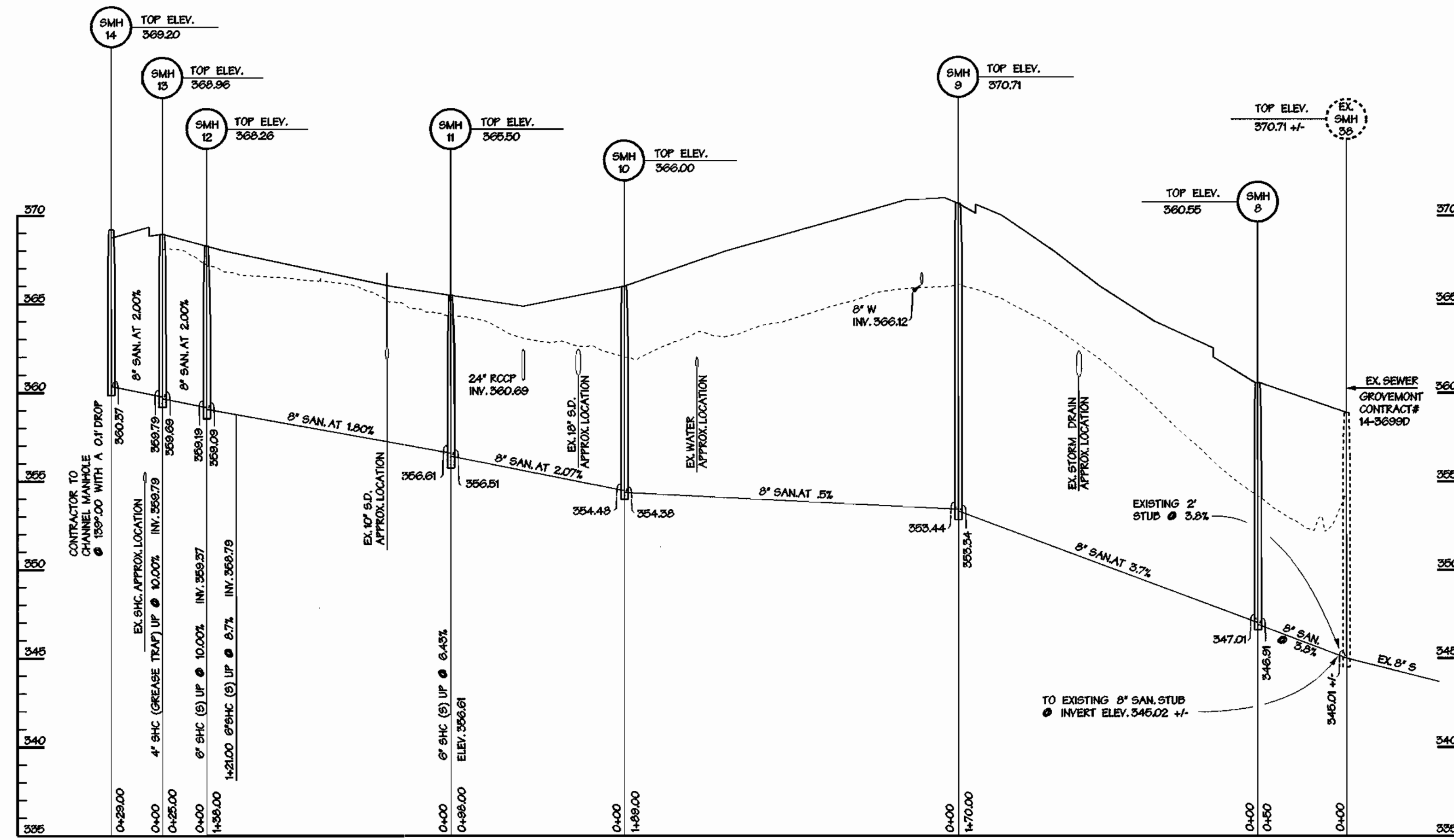
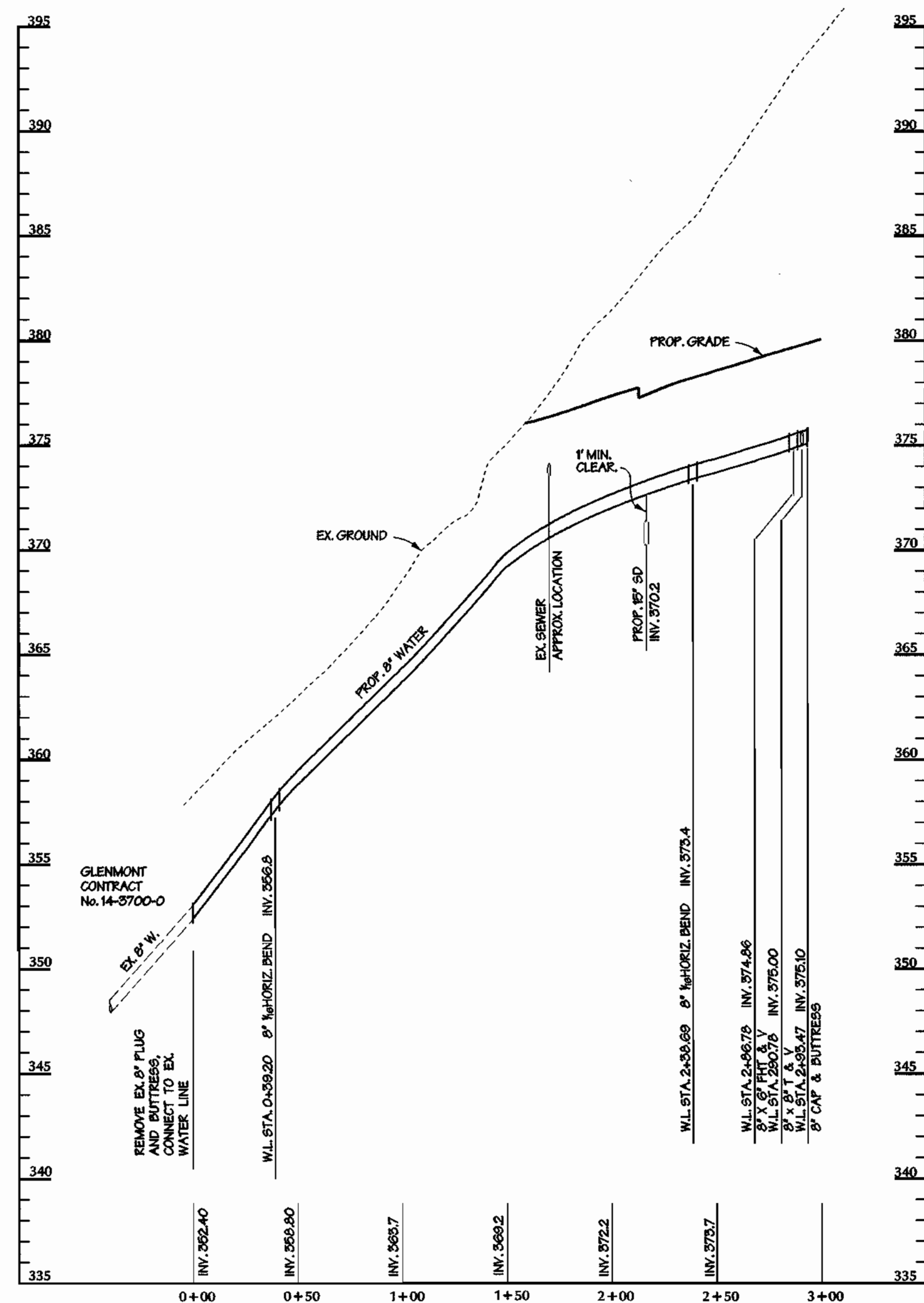
600 SCALE MAP NO. 31 BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND

OWNER: Baltimore Province of the Sisters of Notre Dame de Namur, Inc. DEVELOPER: Board of Trustees, Trinity School
Sister Bernadette Glodok, President 4985 Richeter Road, Ellicott City, Maryland 21043

CONTRACT NO. 14-3785-D

1" = 50'
SHEET
2 OF 4



DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING & ZONING
HOWARD COUNTY, MARYLAND

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



DESIGN BY:	JWM	DATE:	April 29, 1999
DRAWN BY:	JWM	BY:	NO.
CHECKED BY:		REVISION:	
		DATE:	

1	No CHANGE THIS SHEET	10-12-01
2	ADDED SEWER PROFILE	11-19-01

WATER & SEWER PROFILES

600 SCALE MAP NO. 31 BLOCK NO. 16 & 17

Trinity School
HOWARD COUNTY MARYLAND
OWNER: Baltimore Province of the Sisters of Notre Dame de Namur Sister Bernadette Glodok
DEVELOPER: Board of Trustees, Trinity School
4985 Rochester Road, Ellicott City, Maryland 21043
CONTRACT NO. 14-3785-D

AS SHOWN
SHEET 4 OF 4