

BENCH MARKS NAD 83

BEI TRAVERSE #52 N 528015.4024 E 1355858.6879 ELEV. 201.10	BEI TRAVERSE #53 N 527729.0270 E 1355902.8370 ELEV. 203.93
---	---



WATER AND SEWER COUNTY CODE		TYPE OF BUILDING: SINGLE FAMILY DETACHED	
WATER CODE: C-05	SEWER CODE: 7141500	NUMBER OF BUILDABLE LOTS: 16	NUMBER OF SHCS: 16
TEST GRADIENT: 550		NUMBER OF WHCS: 16	DRAINAGE AREA: LITTLE PATUXENT
		TREATMENT PLANT: LITTLE PATUXENT	WATER QUALITY MANAGEMENT CENTER

VICINITY MAP

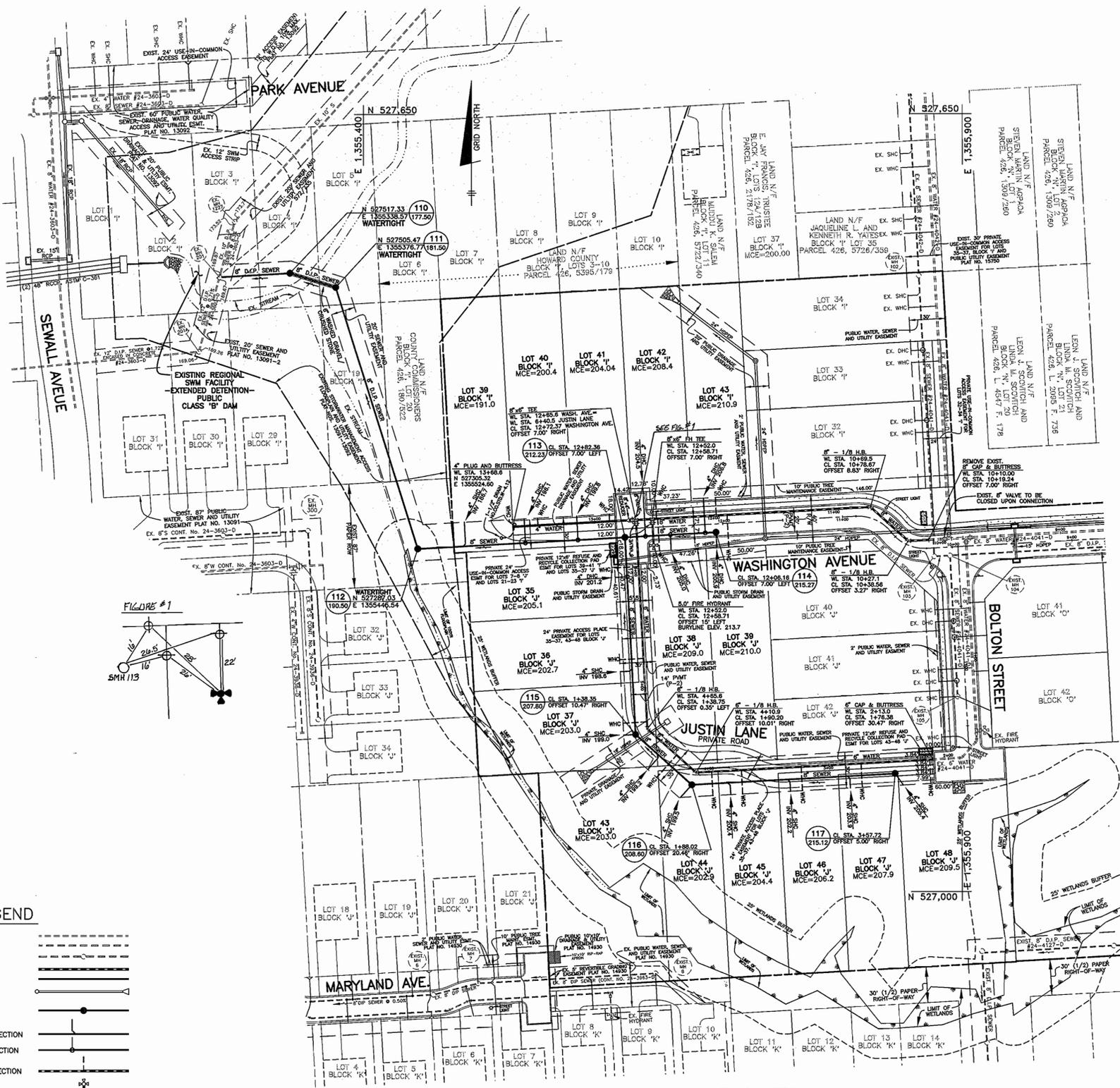
SCALE: 1" = 600'

GENERAL NOTES

- PART 1 - 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. (NORTH AMERICAN DATUM OF 1983 (NAD83)).
 - 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 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 (5) WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:
STATE HIGHWAY ADMINISTRATION.....410-531-5533
BGE CONTRACTOR SERVICES.....410-850-4620
BGE UNDERGROUND DAMAGE CONTROL.....410-291-4607
MISS UTILITY.....1-800-257-7777
COLONIAL PIPELINE CO.....410-549-4120
HOWARD CO. DEPT. OF PUBLIC WORKS.....410-313-4900
BUREAU OF UTILITIES.....1-800-446-5266
BELL ATLANTIC.....1-800-446-5266
 - 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.
 - PLACE REGULATION "MEN WORKING" AND WARNING SIGNS AS REQUIRED TO COMPLY WITH MARYLAND STATE HIGHWAY ADMINISTRATION MANUAL OF TRAFFIC CONTROL FOR HIGHWAY MAINTENANCE OPERATIONS.
 - 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(c) OF THE HOWARD COUNTY CODE.

- PART 2 - WATER**
- ALL WATER MAINS TO BE D.I.P. CLASS 52 UNLESS OTHERWISE NOTED.
 - TOPS OF ALL WATER MAINS TO HAVE A MINIMUM OF 3.5' 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 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 WATER HOUSE CONNECTIONS SHALL BE 1 INCH.
 - FOR SPRINKLER SYSTEM FOR ALL TOWN HOMES OR MULTI-FAMILY DWELLING UNITS SHOULD HAVE A MINIMUM OF 1' CONNECTION WITH A 3/4" METER.
- PART 3 - SEWER**
- ALL SEWER MAINS SHALL BE D.I.P. OR 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.

OWNER/DEVELOPER:
CORNERSTONE HOLDINGS, L.L.C.
9695 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565

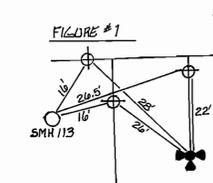


PLAN VIEW
SCALE: 1" = 50'

QUANTITIES

ITEMS	QUANTITIES ESTIMATED	AS-BUILT		
		QUANTITIES	TYPE	MANUF./SUPPLIER
4" WATER	93 L.F.			
6" WATER	428 L.F.			
8" WATER	266 L.F.			
6" VALVES	2			
8" VALVES	1			
FIRE HYDRANTS	1			
1" WHC	287 L.F.			
8" PVC SEWER	647 L.F.			
8" D.I.P. SEWER	328 L.F.			
MANHOLES	8 EACH			
VERT. FEET OF MH	89.5 FT.			
4" SHC	256 L.F.			

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



LEGEND

EXIST. WATER MAIN	
EXIST. SEWER MAIN	
EXIST. SEWER MANHOLE	
PROP. WATER MAIN	
PROP. SEWER MAIN	
PROP. STORM DRAIN	
PROP. SEWER MANHOLE	
PROP. SEWER HOUSE CONNECTION	
PROP. DROP HOUSE CONNECTION	
PROP. WATER HOUSE CONNECTION (SINGLE - 1")	
PROP. FIRE HYDRANT	
PROP. VALVE	
PROP. PLUG & BUTTRISS	

HOWARD SOIL CONSERVATION DISTRICT:
REVIEWED FOR HOWARD SOIL CONSERVATION DISTRICT
AND MEETS TECHNICAL REQUIREMENTS

Jim Mays 7-203 DATE
NATURAL RESOURCES CONSERVATION SERVICES

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

John K. Roberts 7-203 DATE
HOWARD SOIL CONSERVATION DISTRICT

SEDIMENT CONTROL MEASURES FOR THIS CONTRACT WILL BE IMPLEMENTED IN ACCORDANCE WITH SECTION 219 OF THE HOWARD COUNTY STANDARD SPECIFICATIONS AND AS PER ROAD CONSTRUCTION PLANS F-03-85

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

Ruth Berman 6-26-03 DATE
CHIEF, BUREAU OF UTILITIES

Chad Damm 7/6/03 DATE
CHIEF, DEVELOPMENT ENGINEERING DIVISION

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS

Donald Mean

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-6105 FAX: 410-465-6844

DESIGN: DBT	
DRAFT: DBT	
CHK: DAM	
DATE: 6/03	
BY: NO.	AS-BUILT DATA ADDED 3609
REVISIONS	

PLAN VIEW OF
WATER AND SEWER MAINS

600 SCALE MAP NO. 50

BLOCK 3

NORTH LAUREL PARK
WASHINGTON AVENUE AND JUSTIN LANE
LOTS 39-43 'J', 35-39 'J' AND 43-48 'J'

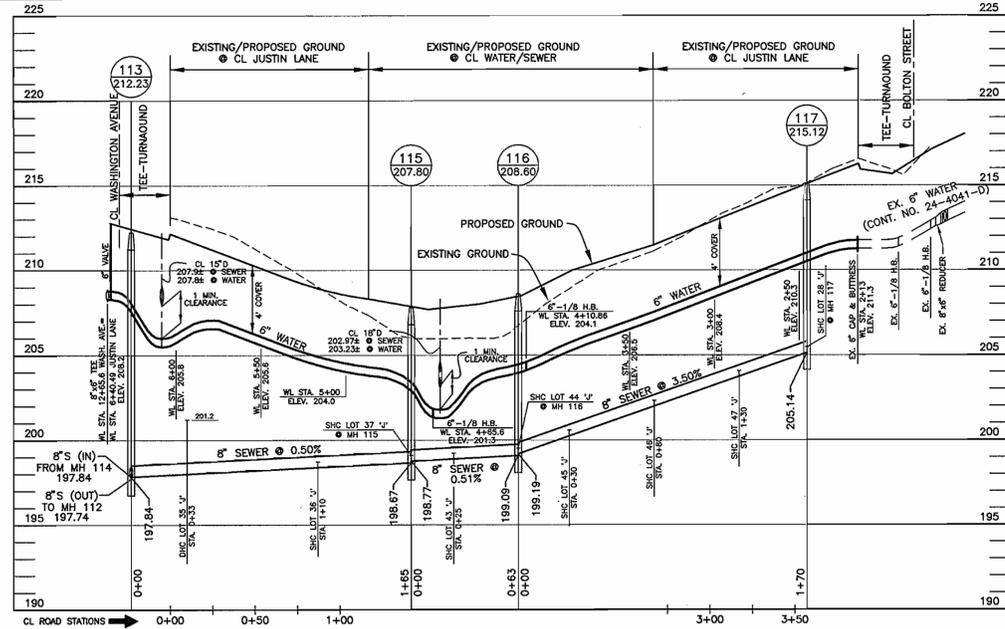
ELECTION DISTRICT NO. 6

SCALE:
AS SHOWN

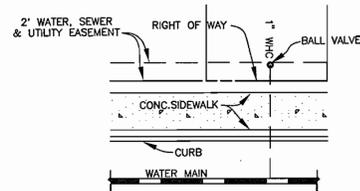
SHEET NO.
1 OF 2

CONTRACT NO. 24-4126-D

WATER & SEWER AS-BUILT DATA			
LOT	FROM	TD	DIST.
39 I	LT. CORNER HOUSE	SHC	43'
RT	"	"	49'
40 I	LT	"	42'
RT	"	"	48'
41 I	LT	"	36'
RT	"	"	59'
42 I	LT	"	25'
RT	"	"	36'
43 I	LT	"	36.5'
RT	"	"	44'
39 I	1 1/2" DRAIN	LT. CORNER HOUSE	66'
RT	"	"	48'
38 J	LT. CORNER HOUSE	SHC	32'
RT	"	"	34'
39 J	LT	"	41'
RT	"	"	31'
35 J	LT	"	31.5'
RT	"	"	32.6'
36 J	LT	"	30'
RT	"	"	46'
37 J	LT	SHC @ MH	28'
RT	"	"	45'
43 J	LT	SHC	31'
RT	"	"	31'
44 J	LT	"	24.5'
RT	"	"	10'
45 J	LT	"	30.5'
RT	"	"	26.5'
46 J	LT	"	29'
RT	"	"	27.6'
47 J	LT	"	41'
RT	"	"	23'
48 J	LT	SHC	42'

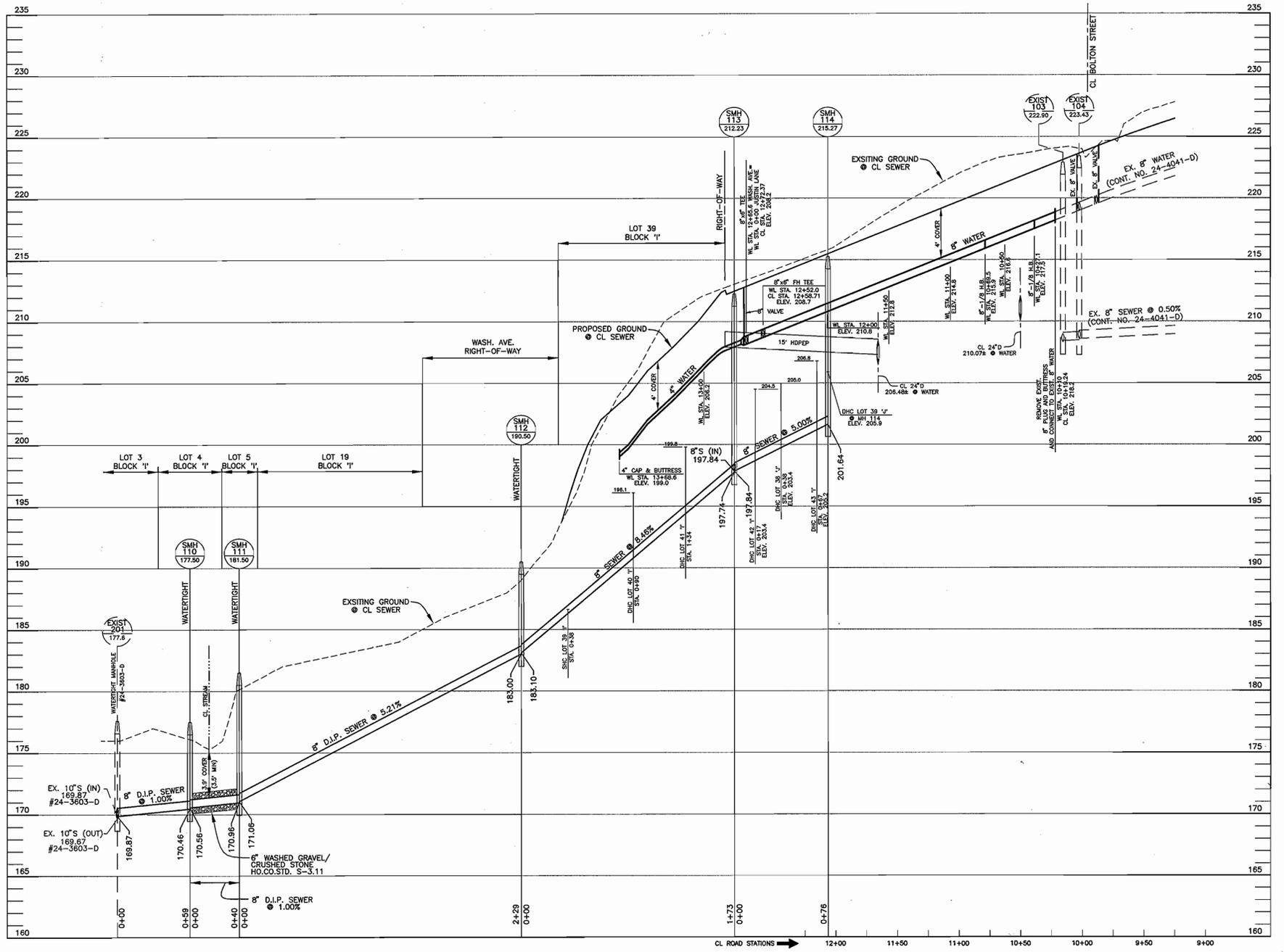


WATER AND SEWER ALONG JUSTIN LANE
SCALE: 1"=50' HORIZ., 1"=5' VERT.



TYPICAL WATER HOUSE CONNECTIONS
NOT TO SCALE

OWNER/DEVELOPER:
CORNERSTONE HOLDINGS, L.L.C.
9695 NORFOLK AVENUE
LAUREL, MARYLAND 20723
410-792-2565



WATER AND SEWER ALONG WASHINGTON AVENUE
SCALE: 1"=50' HORIZ., 1"=5' VERT.

DEPARTMENT OF PUBLIC WORKS
HOWARD COUNTY, MARYLAND

DEPARTMENT OF PLANNING AND ZONING
HOWARD COUNTY, MARYLAND

BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE & SUITE 418
ELLCOTT CITY, MARYLAND 21043
PHONE: 410-465-8105 FAX: 410-465-6644



DESIGN:	DBT	
DRAFT:	DBT	
CHK:	DAM	
DATE:	6/03	
BY:	KCI	
NO.:	AS-BUILT DATA ADDED	3-6-09
REVISIONS:		

WATER AND SEWER
PROFILES AND DETAILS

NORTH LAUREL PARK
WASHINGTON AVENUE AND JUSTIN LANE
LOTS 39-43 'I', 35-39 'J' AND 43-48 'J'

ELECTION DISTRICT NO. 6

CONTRACT NO. 24-4126-D

SCALE:
AS SHOWN

SHEET NO.
2 OF 2