	Ql	JANTITIES				
	QUANTITIES		AS-BUILT			
ITEMS	ESTIMATED	QUANTITIES	TYPE	MANUFACTURER / SUPPLIER		
8" C900 PVC WATER	241 LF	241 LF	150	JM PIPE/BRS		
6" C900 PVC WATER	0 LF	-	-			
8" 1/8 HB	3 EACH	3 EACH	150	SIGMA/BRS		
8" 1/16 HB	0 EACH	-				
8" 1/32 HB	0 EACH	-				
8" X 8" TEE	0 EACH					
8" X 8" TS & V	1 EACH	IEACH	SST	ROMAC IND. INC.		
8" VALVES	0 EACH	IEACH	MUELLER			
8" CAP	1 EACH	1 EACH		MUELLER		
8" X 6" FHT	1 EACH	I EACH	_	MUELLER		
6" X 6" FHT	0 EACH					
FIRE HYDRANT	1 EACH	IEACH	-	MUELLER/BRS		
6" REDUCER	0 EACH	-				
6" CAP	0 EACH	_				
8" PVC COUPLING (CERTAINTEED PVC HIGH DEFLECTION)	1 EACH	1 EACH	200	SIGMA / BRS		
8" 1/8 VB	2 EACH	2 EACH	150	SIGNA/BRS		
8" PVC SDR 35 SEWER	16 LF	16 LF	SDR35			
PRECAST MANHOLE	1 EACH	IEACH	-	HANSON PIPE & PRECAS		

LEGEND: EXISTING SEWER MAIN

EXISTING WATER MAIN PROPOSED WATER MAIN PROPOSED SEWER MAIN PROPOSED FIRE HYDRANT PROPOSED VALVE

BENCH MARK

HOWARD COUNTY SURVEY CONTROL: 50BA ELEVATION 248.625' N 527,567.677 E 1,359,772.604 LOCATION IS ±180' SOUTH OF WHISKEY BOTTOM ROAD ALONG SOUTH BOUND US ROUTE 1.

HOWARD COUNTY SURVEY CONTROL: 50B5 ELEVATION 177.385' N 524,999.374 E 1,357,925.748 LOCATION: IS ±150' NORTH OF N LAUREL

WATER NOTES

- EXCEPT AS INDICATED ON THE PLANS, ALL PUBLIC WATER MAINS SHALL BE POLYVINYLCHLORIDE (PVC) PIPE MEETING THE REQUIREMENTS OF AWWA C900 DR18, PRESSURE CLASS 150 AND THE HOWARD COUNTY DESIGN MANUAL VOLUME IV-STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION AND ALL SUBSEQUENT AMENDMENTS
- TOPS OF ALL WATER MAINS SHALL HAVE A MINIMUM OF 3'-6" OF 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 INSTALLED IN ACCORDANCE WITH STANDARD DETAILS. THE 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 DUCTILE IRON PIPE (DIP) TO BE USED ON THE PUBLIC WATER SYSTEM SHALL BE CLASS 54. DUCTILE IRON FITTINGS SHALL MEET THE REQUIREMENTS OF THE HOWARD COUNTY DESIGN MANUAL VOLUME IV-STANDARD SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
- THE DIMENSION RATIO FOR THE PVC MAIN SHALL BE DR 18.
- WATER MAIN CONSTRUCTION SHALL CONSIST OF PVC MAIN WITH EPOXY COATED DIP FITTINGS OR PVC MAIN WITH PVC FITTINGS.
- REFER TO STANDARD DETAILS G-8.21 AND W-1.15 FOR CONTINUITY TEST STATIONS.
- FOR PVC WATER MAINS, ALL RECORDS FOR THE QUALITY CONTROL AND QUALIFICATION TEST REQUIREMENTS NOTED IN SECTION 5.1 OF THE AWWA STANDARD C900 FOR PVC PRESSURE PIPE SHALL BE SUBMITTED WITH THE PIPE MATERIAL CERTIFICATIONS OR SHOP DRAWINGS PRIOR TO APPROVAL OF THE MATERIAL FOR USE. THE TEST RECORDS SHALL BE FOR THE PIPE TO BE INSTALLED UNDER THIS CONTRACT. ALL PVC PIPE SHALL CONTAIN MARKINGS TO ALLOW CROSS REFERENCING OF THE PIPE SUPPLIED TO THE TEST RECORDS RECEIVED.

SEWER NOTES

- ALL SEWER MAINS SHALL BE PVC CONFORMING TO SDR 35 ASTM D3034 SPECIFICATIONS.
- ALL MANHOLES SHALL BE 4'-0" INSIDE DIAMETER UNLESS OTHERWISE NOTED.

Sediment control measures for this contract	CHECKBOX		
will be implemented in accordance with Section	AS-BUILT DATE		
308 of the Specifications and as shown on SDP-10-010	SURVEY AND DRAFTING DIVISION		
	OWNER / DEVELOPER HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS AND TRANSPORTATION 9250 BENDIX ROAD, COLUMBIA, MD 21045 P 410.313.2414		
DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND	This plan is approved for soil erosion and sediment control by the Howard Soil Canservation Association		

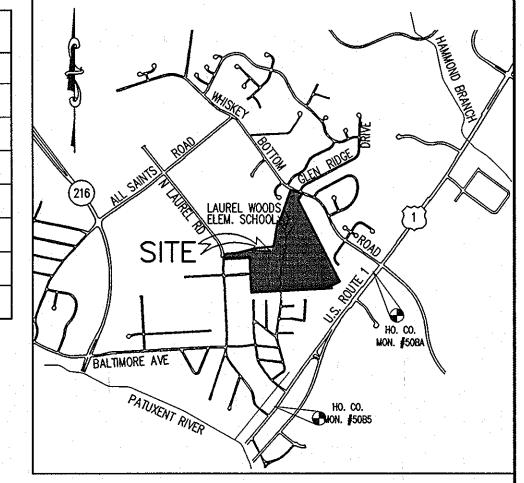
DEPARTMENT OF PUBLIC WORKS

HOWARD COUNTY, MARYLAND

WATER AND SEWER EXTENSION PLAN NORTH LAUREL COMMUNITY CENTER WEST SIDE AMENITIES

PARCEL 762 & 1065 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT No. 24-4669-D CAPITAL PROJECT C-0304

	SHEET INDEX					
NO.	DESCRIPTION					
. 1	TITLE SHEET					
2	PLAN OF WATER & SEWER MAINS					
3	PROFILE OF WATER & SEWER MAINS					
4	CORROSION CONTROL LAYOUT					
5	CORROSION CONTROL DETAILS - 1					
6	CORROSION CONTROL DETAILS — 2					
7	CORROSION CONTROL DETAILS — 3					
		_				



SCALE: 1"=2000'

COPYRIGHT ADC THE MAP PEOPLE HOWARD COUNTY ADC MAP : 19 K10 & K11, MAP 20 A10 & A11

GENERAL NOTES

- APPROXIMATE LOCATIONS OF EXISTING MAINS ARE SHOWN. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING MAINS AND SERVICES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED SHALL BE REPAIRED IMMEDIATELY TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- 2. THE EXISTING TOPOGRAPHY IS TAKEN FROM AERIAL TOPOGRAPHIC SURVEY PREPARED BY VIRGINIA RESOURCE MAPPING DATED MARCH 31, 2006, AND FIELD RUN SURVEY WITH MAXIMUM TWO FOOT CONTOUR INTERVALS PREPARED BY PATTON HARRIS RUST & ASSOCIATES DATED APRIL 24, 2008. BOUNDARY SURVEY WAS PREPARED BY PATTON HARRIS RUST & ASSOCIATES DATED DECEMBER 12, 2006.
- 3. HORIZONTAL AND VERTICAL SURVEY CONTROLS:
- THE COORDINATES SHOWN ON THE DRAWINGS ARE BASED ON MARYLAND STATE REFERENCE system nad '83/'91 as projected by howard county geodetic control stations no. ALL VERTICAL CONTROLS ARE BASED ON NAVD-88. VERTICAL CONTROLS PROVIDED ON THE DRAWINGS ARE HOWARD COUNTY GEODETIC CONTROL STATIONS 50BA AND 50B5.
- 4. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS OTHERWISE NOTED ON THE
- POLES, ANY COST INCURRED BY THE OWNER FOR THE BRACING OF ADDITIONAL POLES OR DAMAGES SHALL BE DEDUCTED FROM MONIES OWED THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES TO SCHEDULE THE BRACING OF THE POLES.
- 6. 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 (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 LOCATIONS OF THE TEST PITS. 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.
- 8. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITY COMPANIES OR AGENCIES AT LEAST FIVE WORKING DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

BGE (CONSTRUCTION SERVICES) BGE (EMERGENCY) BUREAU OF UTILITIES COLONIAL PIPELINE CO. MISS UTILITY STATE HIGHWAY ADMINISTRATION

1-800-252-1133 410-637-8713 410-685-0123 410-313-4900 410-795-1390 1-800-257-7777 410-531-5533 1-800-743-0033 / 410-224-9210

- 9. TREES AND SHRUBS ARE TO BE PROTECTED FROM DAMAGE TO THE MAXIMUM EXTENT. TREES AND SHRUBS LOCATED WITHIN THE CONSTRUCTION STRIP ARE NOT TO BE REMOVED OR DAMAGED BY THE CONTRACTOR.
- 10. THE CONTRACTOR SHALL REMOVE TREES, STUMPS AND ROOTS ALONG THE LINE OF EXCAVATION, PAYMENT FOR SUCH REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONSTRUCTION OF THE MAIN.
- 11. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF HIGHWAYS, HOWARD COUNTY, AT 410-313-7450 AT LEAST FIVE WORKING DAYS BEFORE OPEN CUTTING OR BORING/JACKING OF ANY COUNTY ROAD 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.

PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND,

BALTIMORE AVE

Patton Harris Rust & Associates,pc Engineers. Surveyors. Planners. Landscape Architects 8818 Centre Park Drive



LICENSE NO. 33954, EXPIRATION DATE: 01-24-11.

HK: SCM 7/2012

LOCATION PLAN

SCALE: 1"=600"

PUBLIC WATER & SEWER COVER SHEET

TYPE OF BUILDING:

DRAINAGE AREA: TREATMENT PLANT:

NUMBER OF NON-BUILDABLE LOTS:

NUMBER OF W.H.C.:

NUMBER OF S.H.C.:

WATER RECLAMATION PLANT

NUMBER OF BUILDABLE LOTS:

PUBLIC RESTROOM

P<u>atuxent</u> Little patuxent

NORTH LAUREL COMMUNITY CENTER TAX MAP 47, PARCELS 762 & 1065 ZONED R-SC AS SHOWN 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4669-D

CAPITAL PROJECT C-0304

SCALE

Columbia, MD 21045 T 410.997.8900 F 410.997.9282

ORN: SGM KCI I AS-BUELT

600' SCALE MAP NO. <u>47</u> BLOCK NO. <u>22</u> BY NO. REVISION

W & S Code

County Use

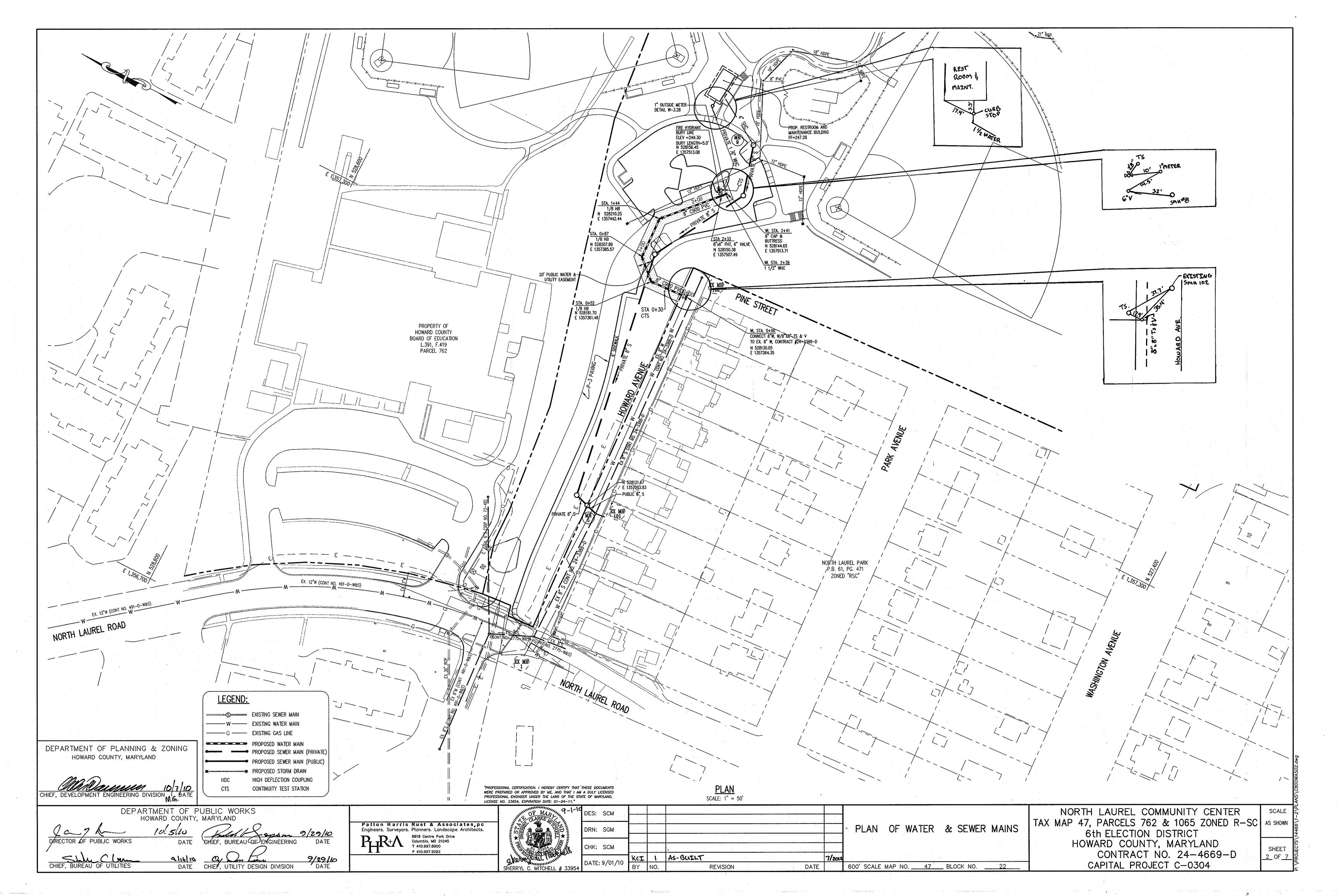
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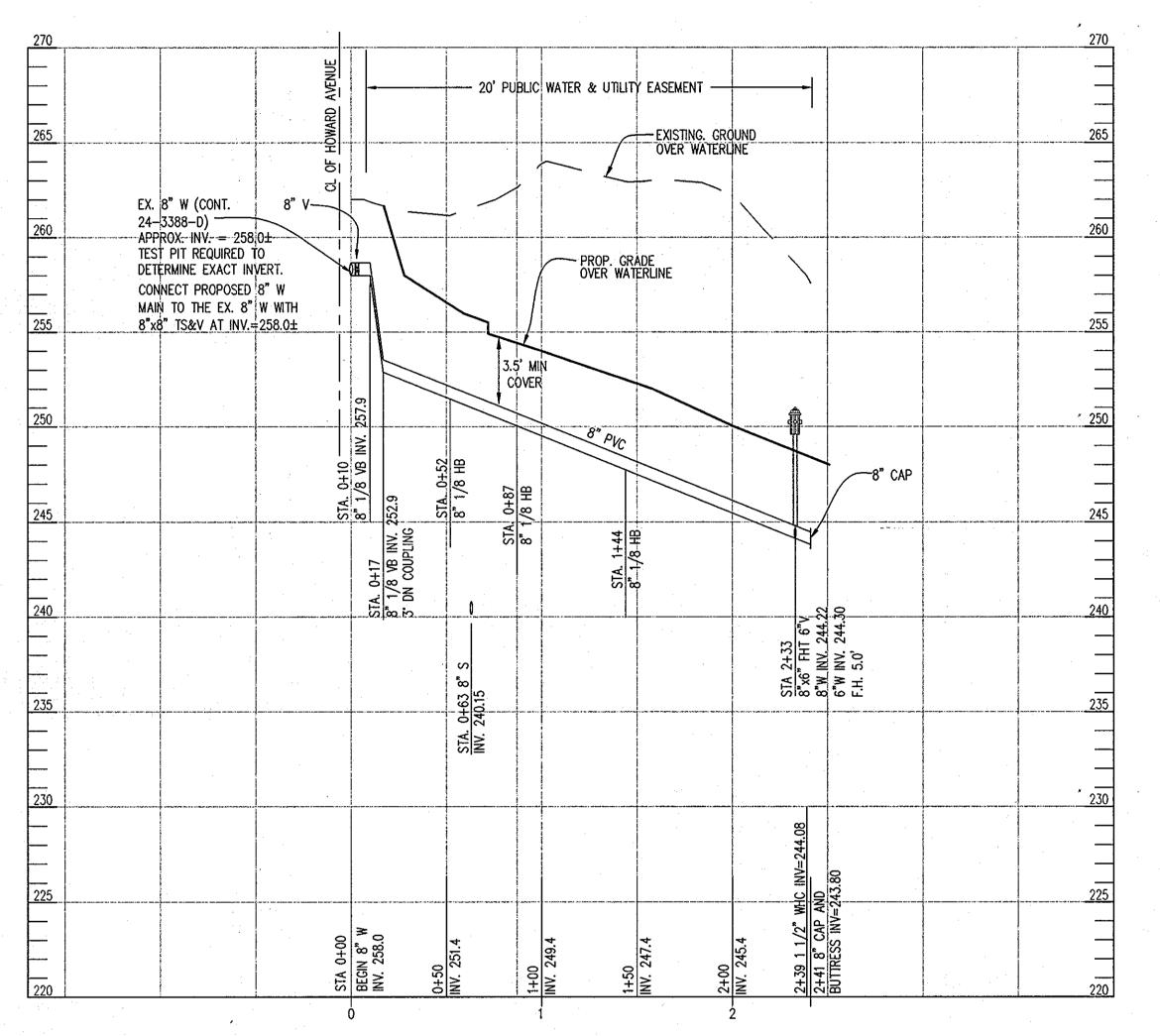
Zone: 400

9/29/10 ØF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERING 9/29/10

DATE CHIEF, UTILITY DESIGN DIVISION

SHEET 1 OF 7





PUBLIC WATERMAIN PROFILE HOR: 1"=50' VERT: 1"=5'

3388-D G X 249.00 C F PRIVATE 8" SEWER EXISTING GROUND INV. IN=237.55 (FIELD)
INV. OUT=236.85 (FIELD) 240 SEE PUBLIC SEWER / CONTRACT # 24+3388-D / FOR CONTINUATION 8" PVC @ 0.6% (PRIVATE) 8" PVC @ 5.94%

> PUBLIC SEWER PROFILE SCALE : HOR: 1"=50" - VERT: 1"=5"

DEPARTMENT OF PLANNING & ZONING HOWARD COUNTY, MARYLAND

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 33954, EXPIRATION DATE: 01–24–11."

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND DATE CHIEF, UTILITY DESIGN DIVISION

Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects.

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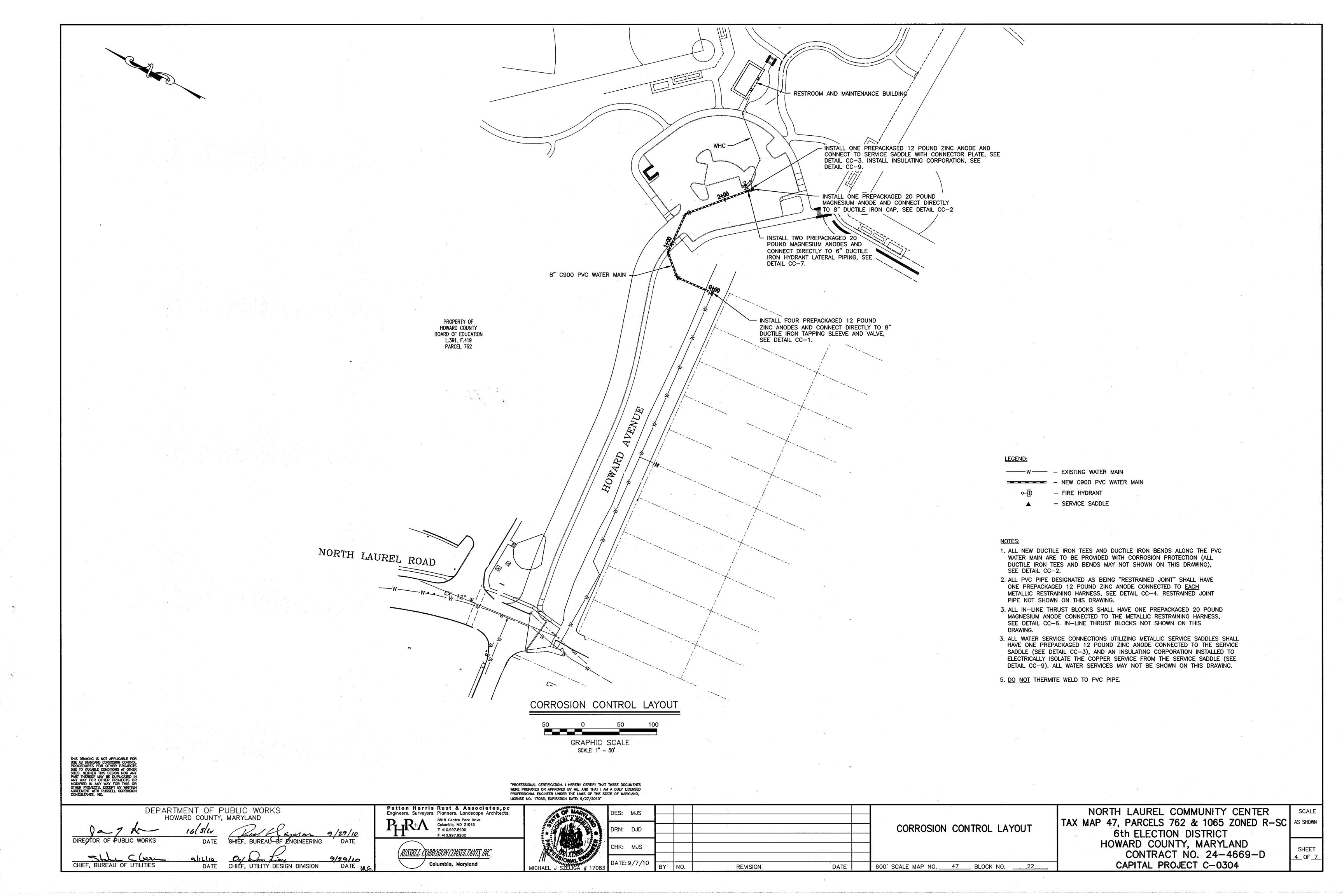
PROFILE OF WATER & SEWER MAINS

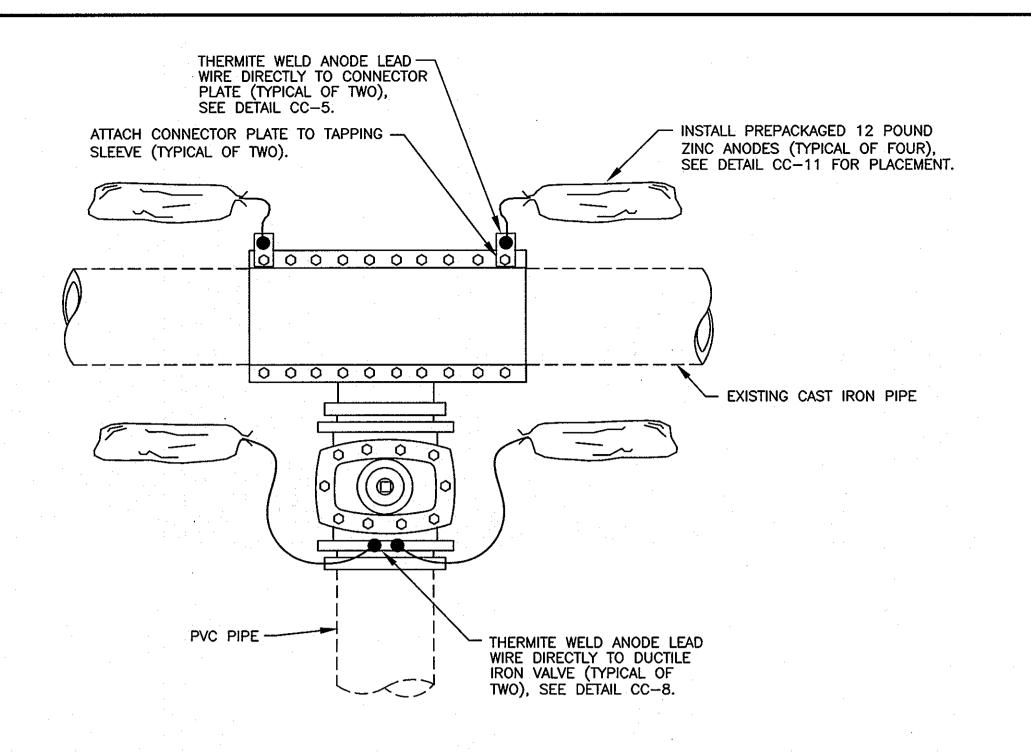
600' SCALE MAP NO. 47 BLOCK NO.

NORTH LAUREL COMMUNITY CENTER TAX MAP 47, PARCELS 762 & 1065 ZONED R-SC AS SHOWN 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4669-D

CAPITAL PROJECT C-0304

SHEET <u>3</u> OF <u>7</u>

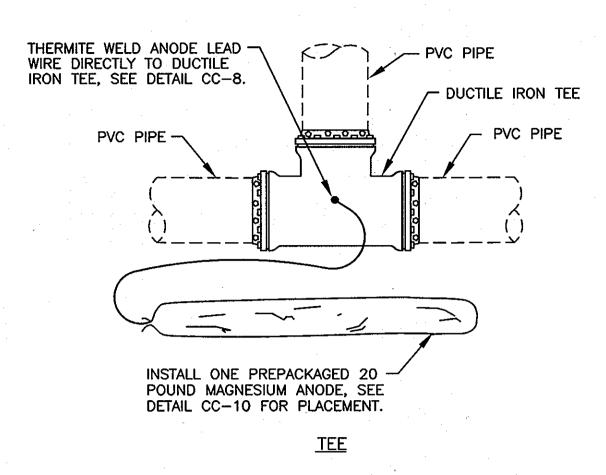


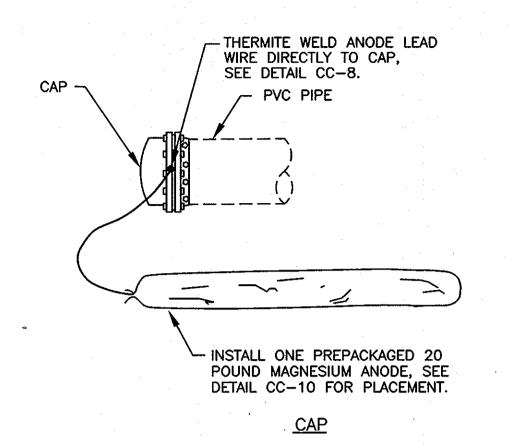


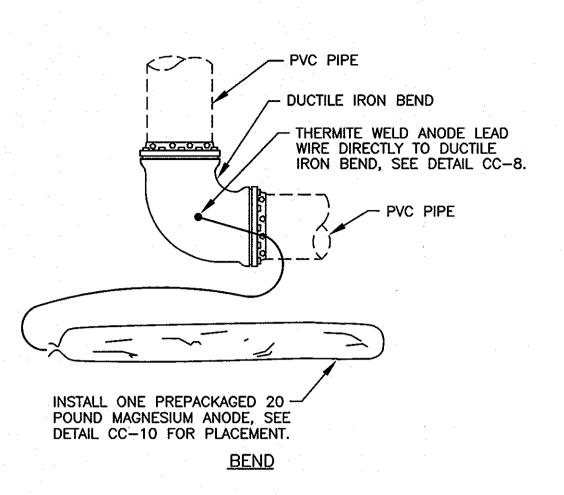
- 1. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM OF 12" FROM EDGE OF PIPE, SEE DETAIL CC-11.
- 2. DO NOT THERMITE WELD TO PVC PIPE.

CC-1: CORROSION PROTECTION OF TAPPING SLEEVE AND VALVE

SCALE: NONE



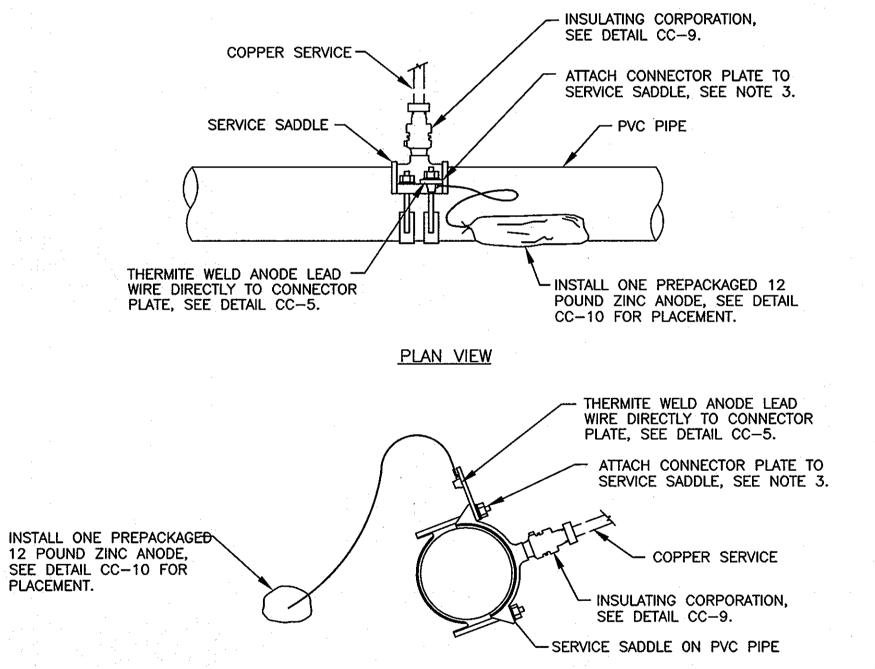




- 1. ANODES REQUIRED ONLY IF TEE, CROSS, CAP, OR BEND IS DUCTILE IRON.
- 2. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A
- MINIMUM OF 12" FROM EDGE OF PIPE, SEE DETAIL CC-10. 3. DO NOT THERMITE WELD TO PVC PIPE.

CC-2: CORROSION PROTECTION FOR DUCTILE IRON PIPE AND FITTINGS

NOT TO SCALE



1. CONNECTOR PLATE TO BE THERMITE WELDED TO ANODE LEAD WIRE PRIOR TO ATTACHING CONNECTOR PLATE TO SERVICE SADDLE.

SECTION VIEW

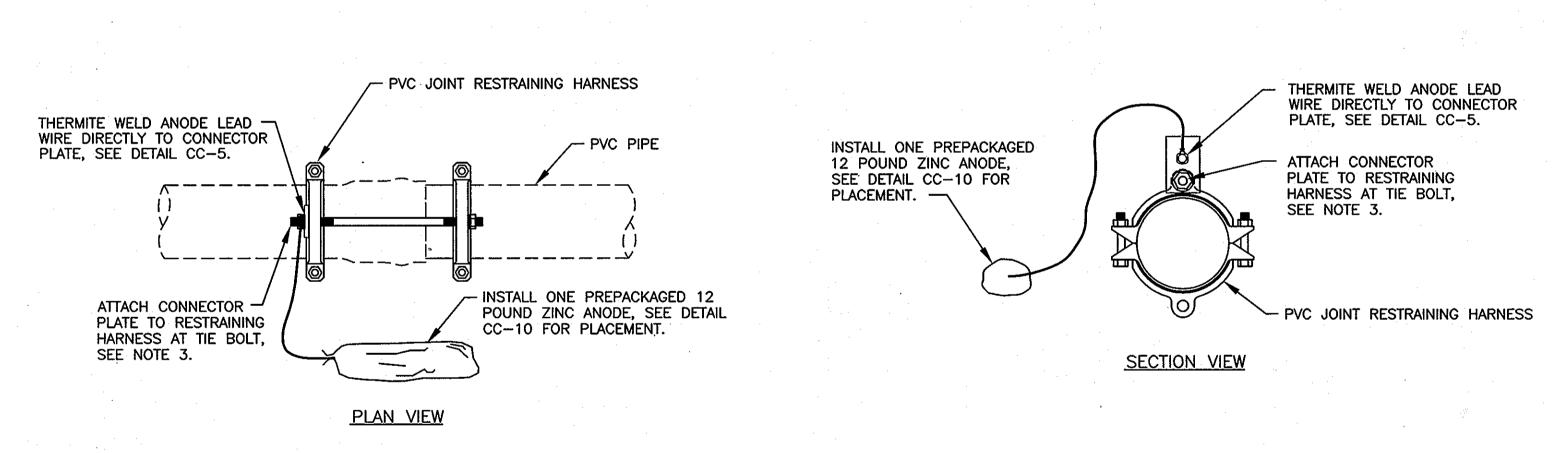
- 2. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM OF 12" FROM EDGE OF PIPE, SEE DETAIL CC-10.
- 3. REMOVE COATING FROM SERVICE SADDLE WHERE CONNECTOR PLATE IS TO BE MOUNTED. REMOVE
- COATING IMMEDIATELY PRIOR TO ATTACHING THE CONNECTOR PLATE. 4. PLASTIC SERVICE PIPING DOES NOT REQUIRE AN INSULATING CORPORATION, A NON-INSULATING
- CORPORATION MAY BE USED. 5. DO NOT THERMITE WELD TO PVC PIPE.

CHIÉF, UTILITY DESIGN DIVISION

CC-3: CORROSION PROTECTION OF SERVICE SADDLE

NOT TO SCALE

PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED. LICENSE NO. 17083, EXPIRATION DATE: 9/27/2010"



- 1. ANODE LEAD WIRE TO BE THERMITE WELDED TO CONNECTOR PLATE PRIOR TO ATTACHING CONNECTOR PLATE TO RESTRAINING HARNESS.
- 2. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM OF 12" FROM EDGE OF PIPE, SEE DETAIL CC-10.
- 3. REMOVE COATING FROM RESTRAINING HARNESS WHERE CONNECTOR PLATE IS TO BE MOUNTED.
- REMOVE COATING IMMEDIATELY PRIOR TO ATTACHING THE CONNECTOR PLATE. 4. DO NOT THERMITE WELD TO PVC PIPE.

CC-4: CORROSION PROTECTION OF RESTRAINING HARNESS

NOT TO SCALE

CHIEF, BUREAU OF UTILITIES

DEPARTMENT OF PUBLIC WORKS

DATE

HOWARD COUNTY, MARYLAND Just 2 295m 9/29/10 DIRECTOR OF PUBLIC WORKS CHIEF, BUREAU OF ENGINEERING 9119/10 Patton Harris Rust & Associates, pc Engineers. Surveyors. Planners. Landscape Architects. 8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900

F 410.997.9282 XORROSION CONSULTANTS, INC. Columbia, Maryland



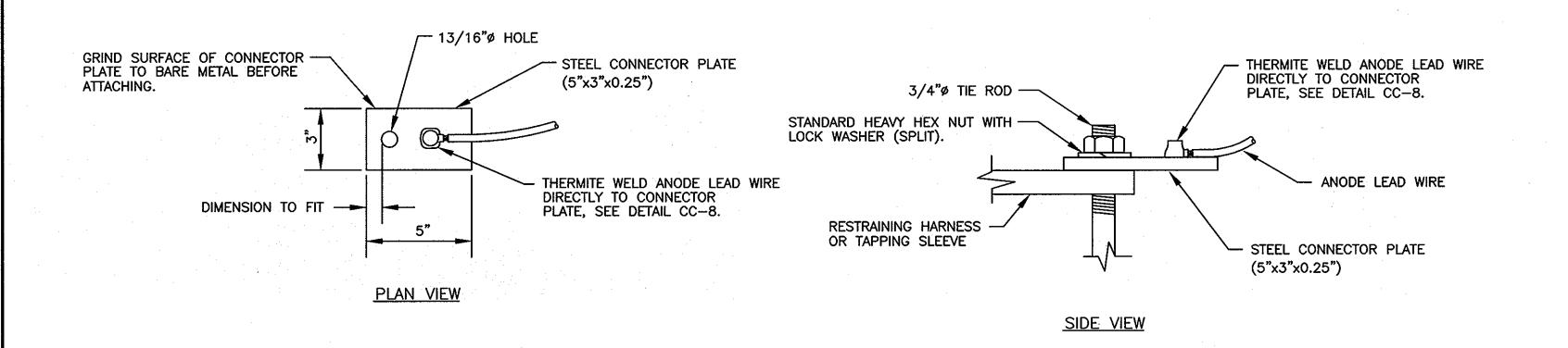
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T	DES: MJS					
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3	DATE: 9/7/10	BY	NO.	REVISION	DATE	600' SCALE MAP NO. 47 BLOCK NO.

CORROSION CONTROL DETAILS - 1

NORTH LAUREL COMMUNITY CENTER TAX MAP 47, PARCELS 762 & 1065 ZONED R-SC AS SHOWN 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4669-D

CAPITAL PROJECT C-0304

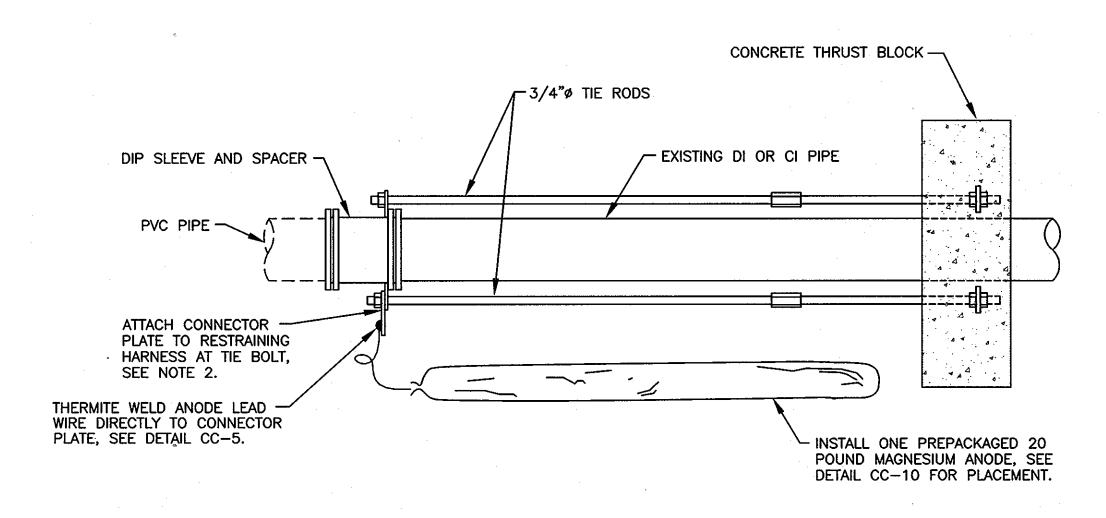
<u>5</u> OF <u>7</u>



- 1. ANODE LEAD WIRE TO BE THERMITE WELDED TO CONNECTOR PLATE PRIOR TO ATTACHING CONNECTOR PLATE TO RESTRAINING HARNESS OR TAPPING SLEEVE.
- 2. THERMITE WELDS SHALL BE COATED WITH A PREFABRICATED ONE PIECE PLASTIC CAP FILLED WITH ELASTOMERIC MATERIAL, ROYSTON HANDY-CAP OR APPROVED EQUAL.

CC-5: CONNECTOR PLATE DETAIL

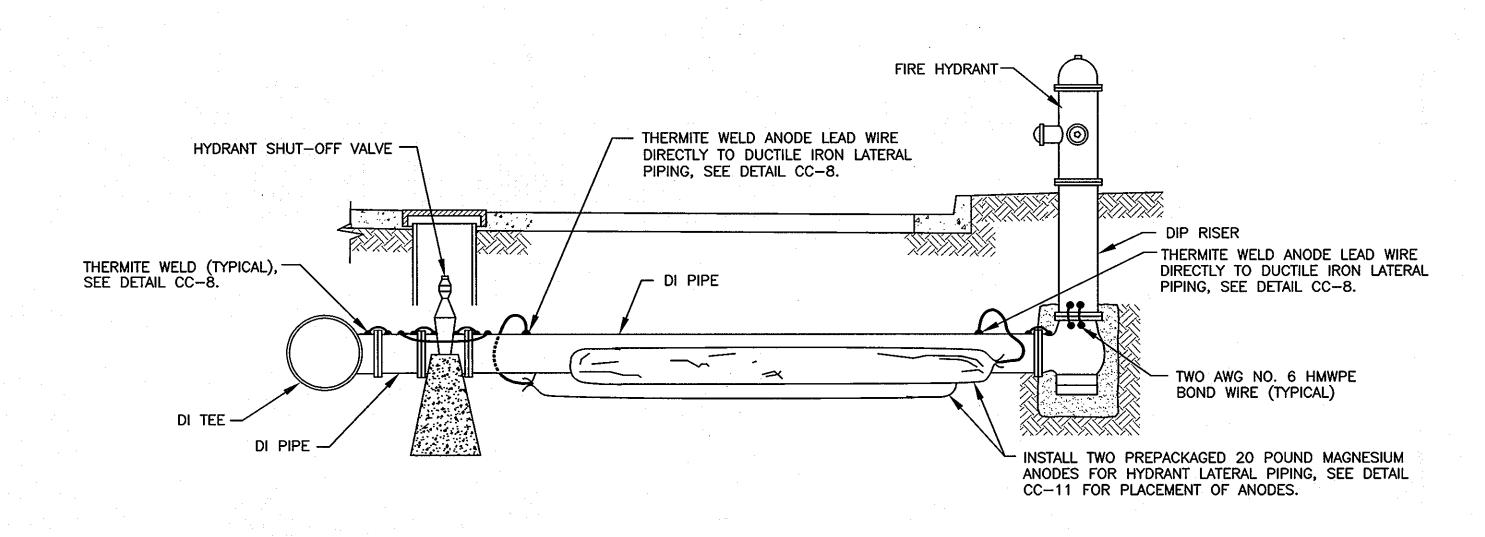
NOT TO SCALE



- 1. ANODE PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM
- OF 12" FROM EDGE OF PIPE, SEE DETAIL CC-10.
- 2. REMOVE COATING FROM RESTRAINING HARNESS WHERE CONNECTOR PLATE IS TO BE MOUNTED. REMOVE COATING IMMEDIATELY PRIOR TO ATTACHING THE CONNECTOR PLATE.
- 3. DO NOT THERMITE WELD TO PVC PIPE.

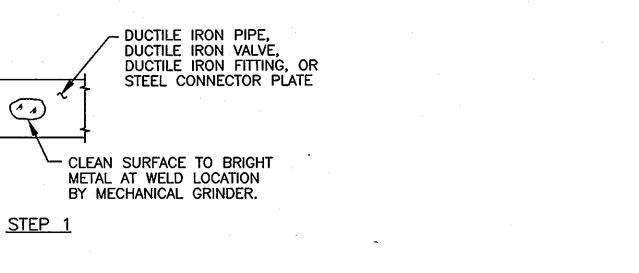
CC-6: CORROSION PROTECTION AT IN-LINE THRUST BLOCK

NOT TO SCALE

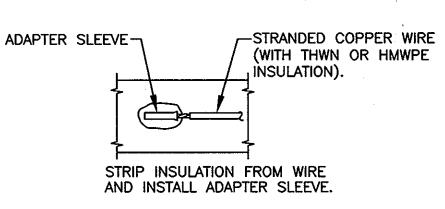


- 1. BOND ALL DUCTILE IRON COMPONENTS TOGETHER WITH AWG NO. 6 HMWPE CABLES. INSTALL A MINIMUM OF TWO BOND CABLES ACROSS EACH DUCTILE IRON PIPE JOINT.
- 2. INSTALL BOND WIRES ON TOP OF DUCTILE IRON PIPE OR DUCTILE IRON FITTING WHERE POSSIBLE.
- 3. ANODES PLACED AT SAME DEPTH AS THE BOTTOM OF PIPE AND AT A MINIMUM OF 12 INCHES FROM EDGE.
- OF PIPE, SEE DETAIL CC-11. 4. INSTALL BOND CABLES ON HYDRANT RISER PIPE AND RISER BEND BEFORE INSTALLING HYDRANT
- 5. DO NOT THERMITE WELD TO PVC PIPE.

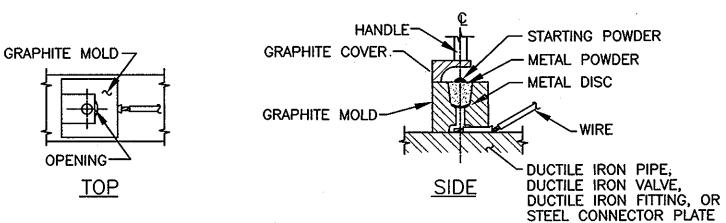
CC-7: CORROSION PROTECTION AT FIRE HYDRANT SCALE: NONE



DATE



STEP 2

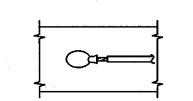


1. THERMITE WELDS SHALL BE COATED WITH A PREFABRICATED ONE PIECE PLASTIC CAP FILLED WITH ELASTOMERIC MATERIAL, ROYSTON HANDY-CAP OR APPROVED EQUAL.

2. DO NOT THERMITE WELD TO PVC PIPE.

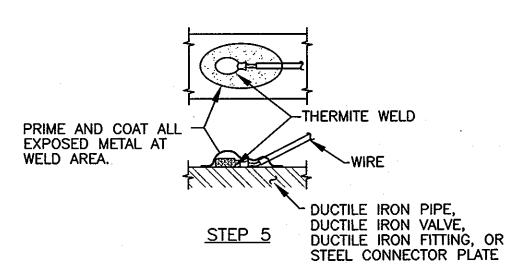
HOLD GRAPHITE MOLD FIRMLY OVER ADAPTER SLEEVE WITH OPENING AWAY FROM OPERATOR — IGNITE STARTING POWDER.

STEP 3



REMOVE SLAG FROM CONNECTION. THOROUGHLY CLEAN WELD AREA.

STEP 4



CC-8: HORIZONTAL THERMITE WELD SCALE: NONE

DIRECTOR OF PUBLIC WORKS

"PROFESSIONAL CERTIFICATION, I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17083, EXPIRATION DATE: 9/27/2010"

Patton Harris Rust & Associates,pc Engineers, Surveyors, Planners, Landscape Architects, 8818 Centre Park Drive Columbia, MD 21045 **T** 410.997.8900 F 410.997.9282 XORROSION CONSULTANTS, INC.

Columbia, Maryland

MICHAEL J. SZELIGA # 17083

DRN: DJD CHK: MJS

CORROSION CONTROL DETAILS - 2

NORTH LAUREL COMMUNITY CENTER TAX MAP 47, PARCELS 762 & 1065 ZONED R-SC AS SHOWN 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND CONTRACT NO. 24-4669-D

SHEET 6 OF 7

etief, BUREAU OF ENGINEERING DATE 9/29/10

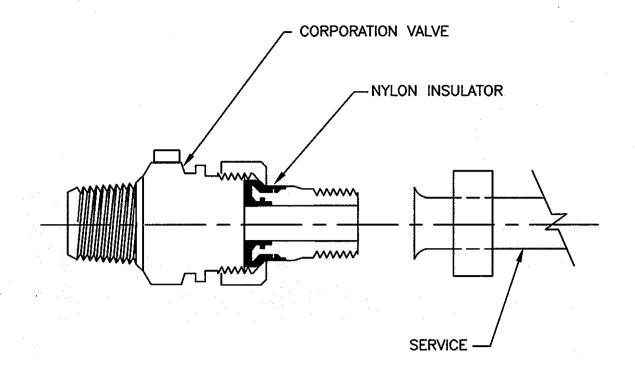
DATE: 9/7/10 BY NO. REVISION

CHIEF, BUREAU OF UTILITIES CHIEF, UTILITY DESIGN DIVISION

DEPARTMENT OF PUBLIC WORKS

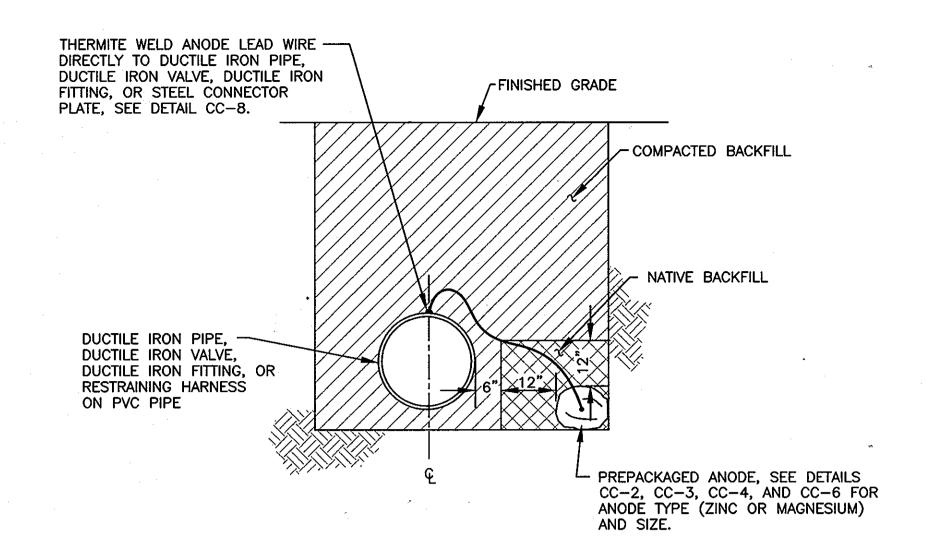
HOWARD COUNTY, MARYLAND

CAPITAL PROJECT C-0304 600' SCALE MAP NO. 47 BLOCK NO.



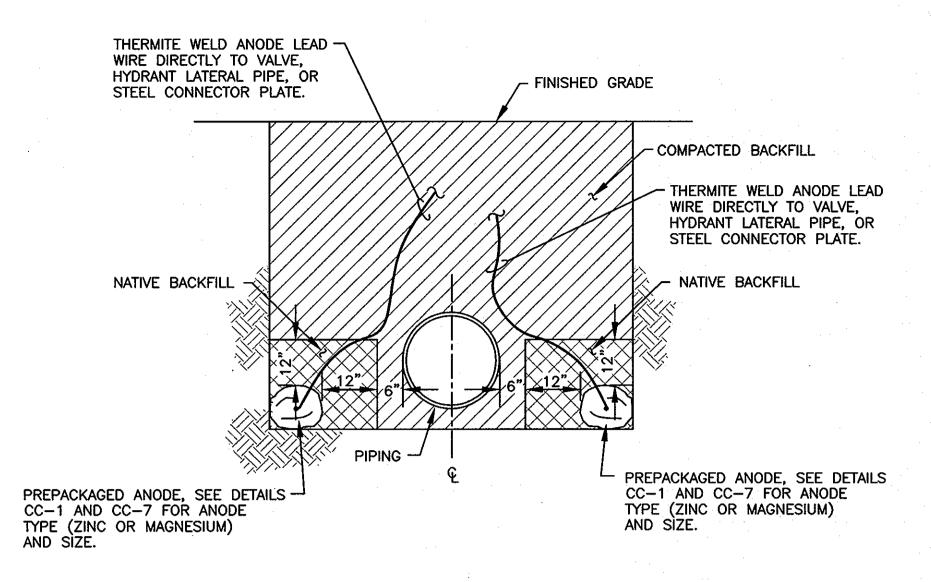
- 1. INSTALL ELECTRICAL ISOLATION ON ALL WATER SERVICE AND DRAIN LINE CONNECTIONS TO MAIN.
- 2. COAT EXTERIOR OF CORPORATION STOP, AND SERVICE PIPING FOR A DISTANCE OF 12 INCHES WITH MASTIC COATING (ROYSTON ROSKOTE R28). MASTIC COATING TO BE MINIMUM OF 20 MILS IN THICKNESS.
- 3. INSULATED CORPORATION NOT REQUIRED FOR PLASTIC SERVICES.

CC-9: INSULATING CORPORATION NOT TO SCALE



- 1. INSTALL ANODE IN NATIVE SOIL. DO NOT BACKFILL ANODE WITH SAND OR STONE.
- 2. DO NOT THERMITE WELD TO PVC PIPE.

CC-10: SINGLE ANODE PLACEMENT



- 1. WHEN INSTALLING ANODES AT HYDRANTS, ATTACH BOTH ANODE LEADS TO HYDRANT LATERAL PIPE, SEE DETAIL CC-7.
- 2. INSTALL ANODES A MINIMUM OF 12 INCHES FROM PIPE.
- 3. BACKFILL ANODES WITH NATIVE SOIL FOR A MINIMUM OF 12 INCHES ON ALL SIDES. DO NOT BACKFILL ANODES WITH SAND OR STONE.
- 4. DO NOT THERMITE WELD TO PVC PIPE.

CC-11: DOUBLE ANODE PLACEMENT

NOT TO SCALE

"PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 17083, EXPIRATION DATE: 9/27/2010"

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND CHIEF, UTILITY DESIGN DIVISION

8818 Centre Park Drive Columbia, MD 21045 T 410.997.8900

(RUSSELL TORROSION CONSULTANTS, INC.

DRN: DJD DATE: 9/7/10 DATE REVISION

CORROSION CONTROL DETAILS - 3

600' SCALE MAP NO. _____47 BLOCK NO. _____22

NORTH LAUREL COMMUNITY CENTER TAX MAP 47, PARCELS 762 & 1065 ZONED R-SC AS SHOWN 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND SHEET CONTRACT NO. 24-4669-D

<u>7</u> OF <u>7</u>

CAPITAL PROJECT C-0304