



CITY OF BALTIMORE

FRANCHISE AGREEMENT # _____ - _____

(FORMERLY DEVELOPERS AGREEMENT NO. 1620)

FOR

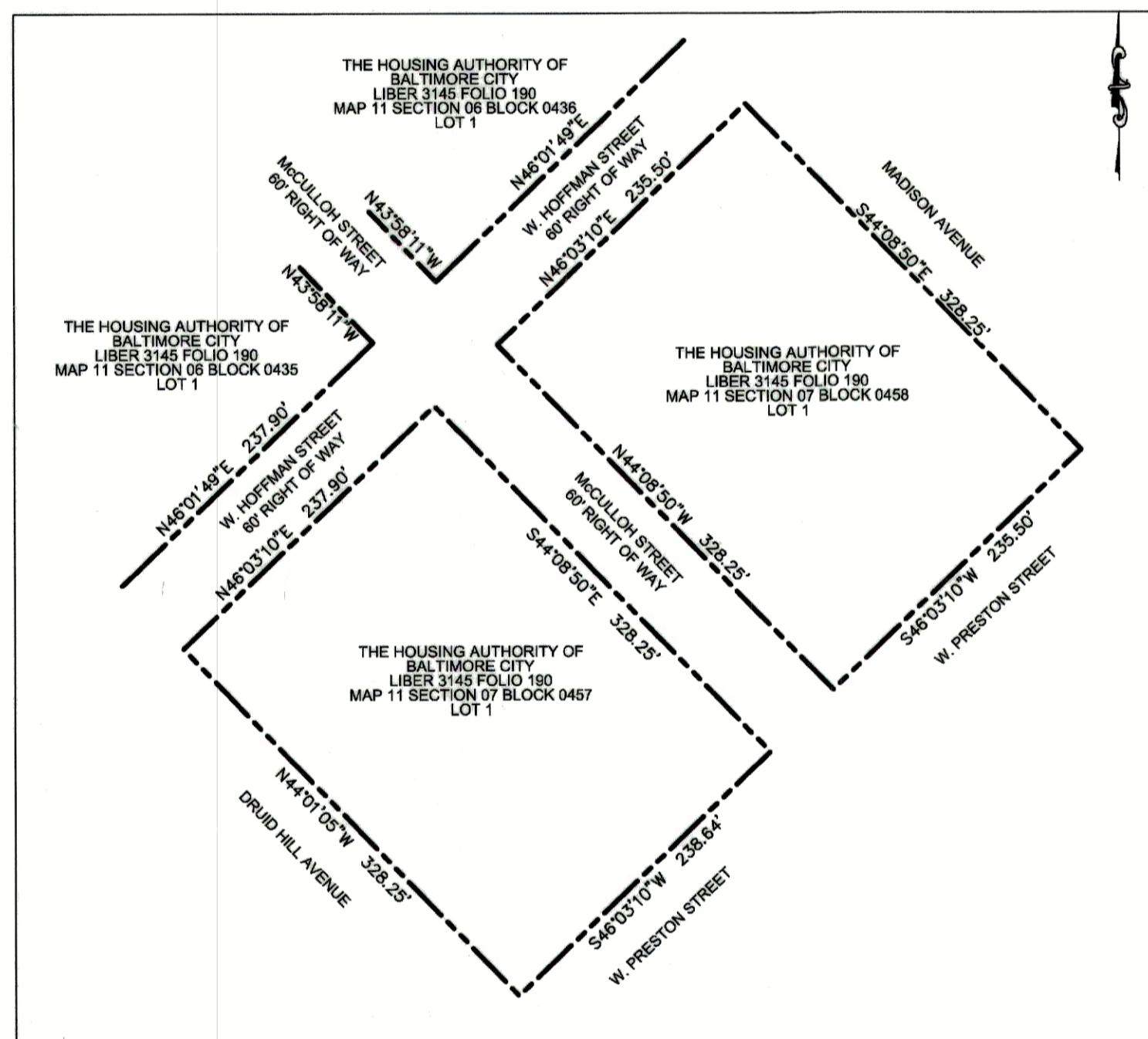
McCULLOH HOMES

INSTALLATION OF PRIVATE WATER LINES

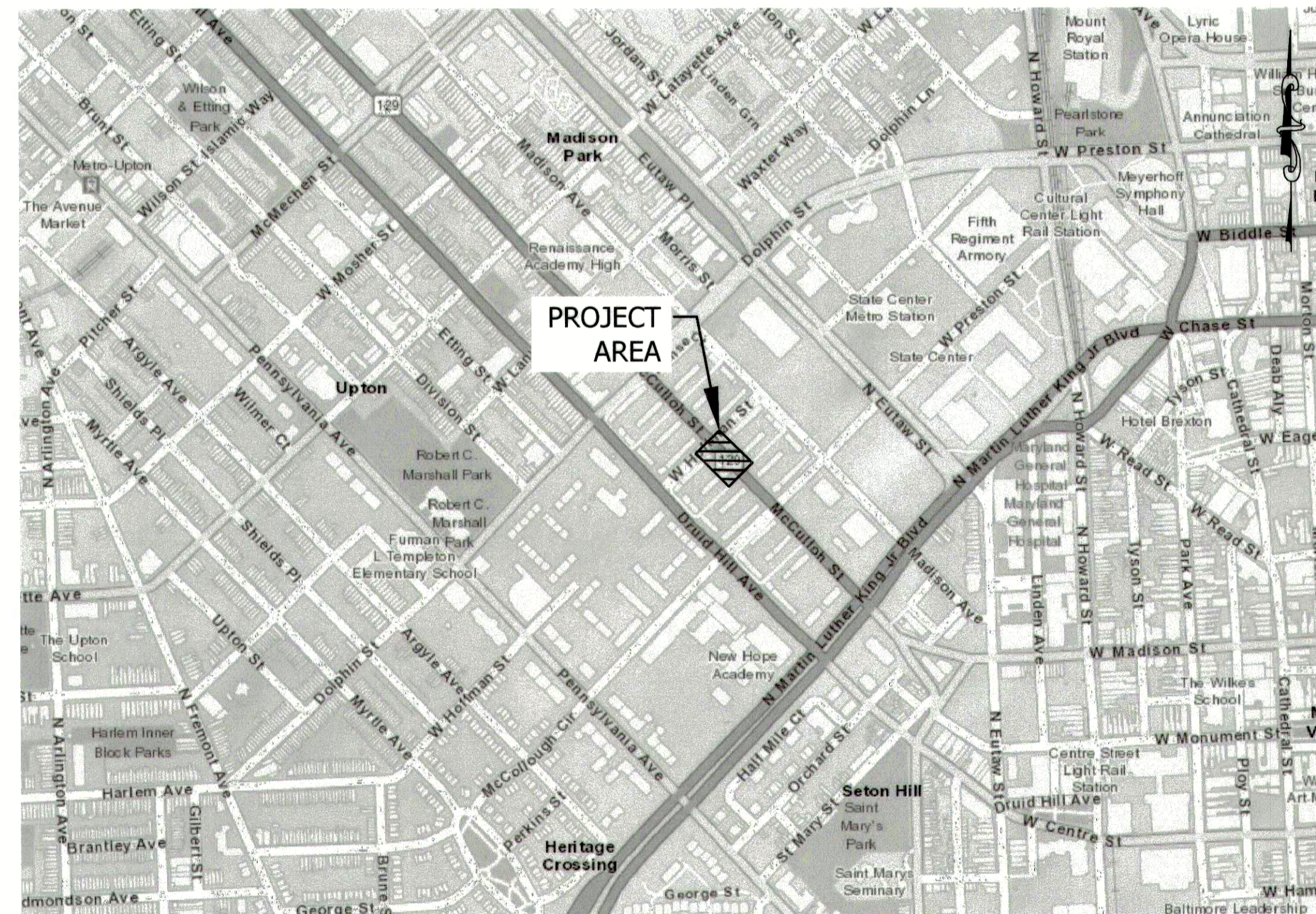
4" DIAMETER HOT WATER SUPPLY

3" DIAMETER HOT WATER RETURN

4" DIAMETER COLD WATER SUPPLY



PROPERTY MOSAIC
SCALE: 1" = 100'



LOCATION MAP
SCALE: 1" = 500'

SHEET INDEX:

SHEET NO.	DESCRIPTION
1 OF 3	TITLE SHEET
2 OF 3	SITE PLAN
3 OF 3	DETAILS SHEET

AS BUILT REVISIONS	REVISIONS	
	DESCRIPTION	DATE
BY: _____		
DATED: _____		

LEGEND

EXISTING INDEX CONTOUR	---	70
EXISTING INTERMEDIATE CONTOUR	- - - - -	68
PARCEL BOUNDARY	=====	
EXISTING STRUCTURE	//////	
EXISTING WATER MAIN	— W —	
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EXISTING UNDERGROUND CABLE	— CTV —	
EXISTING UNDERGROUND TELEPHONE	— UT —	
EXISTING UNDERGROUND ELECTRIC LINES	— UE —	
EXISTING UNKNOWN UNDERGROUND UTILITY	— UNK —	
SINGLE WHITE LINE	— SWL —	
PAVEMENT MARKING	— G —	18" RCP
EXISTING GAS MAIN	— G —	
EXISTING STORMWATER & MANHOLE	⊗	
EXISTING HYDRANT	⊙	
EXISTING SANITARY MANHOLE	⊗	
EXISTING WATER METER	⊗	
EXISTING WATER VALVE	⊗	
EXISTING GAS VALVE	⊗	
EXISTING STORMWATER INLET	⊗	
EXISTING UNDERGROUND ELECTRIC HANDBOX	⊗	
EXISTING STREET LIGHT	⊗	
EXISTING STREET SIGN	⊗	
END OF UTILITY INVESTIGATION	EOI	
EXISTING TELEPHONE PEDESTAL	⊗	
EXISTING CONCRETE SIDEWALK	⊗	
EXISTING CONIFEROUS TREE	⊗	
EXISTING DECIDUOUS TREE	⊗	
PROPOSED COLD WATER SUPPLY	— CWS —	
PROPOSED HOT WATER RETURN	— HWR —	
PROPOSED HOT WATER SUPPLY	— HWS —	
LIMIT OF TRENCH EXCAVATION	— — — — —	
PROPOSED FLEXIBLE PAVEMENT	⊗	
PROPOSED CONCRETE SIDEWALK	⊗	
PROPOSED BUS STOP CONCRETE	⊗	

OWNER / APPLICANT:

HOUSING AUTHORITY OF BALTIMORE CITY
417 E FAYETTE STREET, SUITE 266
BALTIMORE, MD 21202-3431
CONTACT: MICHAEL WODKA
PHONE: 410-396-8468

DESIGNED BY:

BRINJAC ENGINEERING, INC.
114 NORTH SECOND STREET
HARRISBURG, PA 17101
CONTACT: ANNE K. ANDERSON
PHONE: 717-260-1140

DEVELOPER:

HOUSING AUTHORITY OF BALTIMORE CITY
417 E FAYETTE STREET, SUITE 266
BALTIMORE, MD 21202-3431
CONTACT: MICHAEL WODKA
PHONE: 410-396-8468

INTENT NOTE:

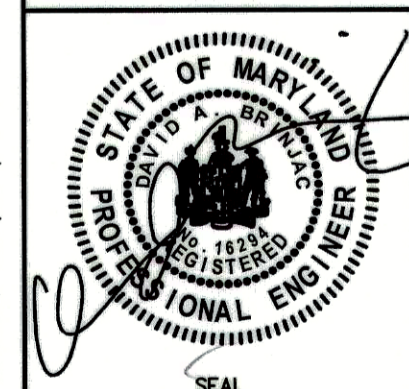
THE INTENT OF THE PLAN IS TO DETAIL THE WORK PROPOSED WITHIN THE RIGHT-OF-WAY OF THE 1000 BLOCK OF McCULLOH STREET FOR THE PURPOSE OF ACQUIRING A FRANCHISE AGREEMENT. THIS PROJECT PROPOSES THE INSTALLATION OF THREE PRIVATE WATER LINES TO CONNECT THE BOILER IN 443 CUMMINGS COURT WITH 400 CUMMINGS COURT ON THE OTHER SIDE OF McCULLOH STREET. THE THREE PIPES ARE COMPRISED OF AN INSULATED 4" DIAMETER HOT WATER SUPPLY LINE, AN INSULATED 3" DIAMETER HOT WATER RETURN LINE AND A UNINSULATED 4" DIAMETER COLD WATER SUPPLY LINE. ALL THREE LINES WILL REMAIN PRIVATE AND BE INSTALLED IN THE SAME TRENCH WITH 9" SEPARATION AND WILL CROSS McCULLOH STREET AT 90 DEGREES THEREBY MINIMIZING THE INSTALLATION WITHIN THE RIGHT-OF-WAY OF McCULLOH STREET.

PROFESSIONAL CERTIFICATION:

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 NUMBER 16294, EXPIRATION DATE: 12-14-2018 **2020** *cf*

BRINJAC ENGINEERING INC. ENGINEER: DAVID A. BRINJAC DATE: 11/20/18 LIC. NO. 16294 DESIGNED BY: AKA DRAWN BY: BCF CHECKED BY: DAB

BALTIMORE CITY REVIEW	R/W RELEASE	HIGHWAY DESIGN	BRIDGES	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	WASTEWATER ENGINEERING	WATER ENGINEERING	SIGNAL ENGINEERING
BY: <i>AKA</i>	<i>AL</i>	<i>AKW</i>	<i>SM</i>	<i>SB</i>	<i>TB</i>	<i>SM</i>	<i>SM</i>	<i>SM</i>	<i>SM</i>	<i>SM</i>	<i>TDB</i>
DATE: <i>2/19/19</i>	<i>11-28-18</i>	<i>1/24/19</i>	<i>3/7/19</i>	<i>3/7/19</i>	<i>11-28-18</i>	<i>1-22-19</i>	<i>3/7/19</i>	<i>11-30-18</i>	<i>3/7/19</i>	<i>3/7/19</i>	<i>12-4-18</i>



OWNER / APPLICANT / DEVELOPER:
HOUSING AUTHORITY OF BALTIMORE CITY
417 E FAYETTE STREET, SUITE 266
BALTIMORE, MD 21202-3431

CITY OF BALTIMORE
FRANCHISE AGREEMENT # _____ - _____
(FORMERLY DEVELOPERS AGREEMENT NO. 1620)

FOR
McCULLOH HOMES
1000 BLOCK OF McCULLOH STREET
INSTALLATION OF PRIVATE WATER LINES
4" DIAMETER HOT WATER SUPPLY
3" DIAMETER HOT WATER RETURN
4" DIAMETER COLD WATER SUPPLY

TITLE SHEET
SCALE: AS SHOWN DATE: 11/20/18

U:\Proj\Marion L. Merton, Inc.\MD\18.01980.00-McCulloch Homes Water Heating Replacement\DRAWINGS\Civil\Franchise Agreement\18.01980.00.dwg brinjac 11/20/2018 03:21:53 PM

STANDARD STREET LIGHTING NOTES

- UNLESS OTHERWISE NOTED, ALL STREET LIGHTING RELATED WORK SHALL BE IN ACCORDANCE WITH THE CITY OF BALTIMORE'S DEPARTMENT OF PUBLIC WORKS (DPW) SPECIFICATIONS FOR MATERIALS, HIGHWAYS, BRIDGES, UTILITIES, AND INCIDENTAL STRUCTURES ("GREEN BOOK"), THE CITY'S BOOK OF STANDARDS, THE BUILDING CODE OF BALTIMORE CITY, AND THE UTILITY DEVELOPER'S AGREEMENT.
- FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR MUST OBTAIN PERMITS FROM THE DEPARTMENT OF TRANSPORTATION PERMITS SECTION, ABEL WOLMAN MUNICIPAL BUILDING, LOBBY - ROOM 6, 200 HOLIDAY STREET, BALTIMORE, MARYLAND, 21202, PHONE 410-396-6865 OR 410-396-4506.
- BALTIMORE CITY'S DEPARTMENT OF TRANSPORTATION MAINTENANCE DIVISION MAINTAINS STREET LIGHTING POLES AND THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) MAINTAINS STREET LIGHT CABLES IN THE AREA. THE CONTRACTOR IS REQUIRED TO PROTECT AND MAINTAIN ALL EXISTING LIGHTING INFRASTRUCTURE, CIRCUIT CONTINUITY AND CONDUIT FACILITIES DURING CONSTRUCTION.
- THE CONTRACTOR IS REQUIRED TO NOTIFY BGE AT (410) 281-3507 AND THE BALTIMORE CITY DOT STREET LIGHTING MAINTENANCE ENGINEERING SECTION AT (410) 396-4446 TWO (2) WEEKS PRIOR TO STARTING ANY WORK.
- IF THE CONTRACTOR UNCOVERS OR DAMAGES A STREET LIGHT, CONDUIT OR CABLE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO NOTIFY STREET LIGHTING MAINTENANCE INSPECTIONS AT (410) 396-4446 AND BGE IMMEDIATELY. STREET LIGHTING MAINTENANCE WOULD AFFECT REPAIRS OR DIRECT BGE TO MAKE SAFE CONDITIONS AND/OR REPLACE CABLES PRIOR TO RESUMING CONSTRUCTION. ALL SUCH REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- IF THE EXISTING LIGHTING SYSTEM CANNOT BE MAINTAINED IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR IS REQUIRED TO PROVIDE TEMPORARY LIGHTING IN ACCORDANCE WITH BALTIMORE CITY STANDARDS UNTIL THE PERMANENT LIGHTING IS INSTALLED AND IN SATISFACTORY OPERATION. THE TOTAL COST OF MATERIALS AND LABOR FOR STREET LIGHTING WORK, INCLUDING BGE CABLE CONNECTION WORK, SHALL BE BORNE BY THE CONTRACTOR.
- IN AREAS WHERE THE CONTRACTOR IS TO REMOVE THE FOOTWAY WHERE BURIED CABLE IS PRESENT, THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH BGE (410-470-8744). BGE MAY ELECT TO INSTALL NEW CABLE PRIOR TO THE INSTALLATION OF THE NEW FOOTWAY.
- COORDINATION FOR BGE STREET LIGHTING CONSTRUCTION SERVICES REQUIRES THAT THE LATEST RED-LINED OR UPDATED DRAWINGS (AS IT PERTAINS TO STREET LIGHTING INFRASTRUCTURE) ARE PROVIDED ELECTRONICALLY TO BALTIMORE CITY'S TRANSPORTATION MAINTENANCE DIVISION. IF APPLICABLE, THE MARKED UP DRAWINGS SUBMITTED WILL SERVE AS THE BASIS FOR DETERMINING THE PROBABLE COST ESTIMATE FOR BGE SERVICES. THE CONTRACTOR SHALL CONTACT STREET LIGHTING MAINTENANCE (410-396-4446) AT LEAST 10 WORK DAYS PRIOR TO STARTING ANY WORK.
- THE CONTRACTOR SHALL CONTACT THE CONDUIT MAINTENANCE INSPECTIONS AT 410-396-1515 THREE (3) DAYS BEFORE THE START OF CONSTRUCTION. CABLE INSTALLATION BY BGE WILL NOT BE CARRIED OUT WITHOUT COMPLETION OF AN INSPECTION BY CONDUIT MAINTENANCE.
- THE CONTRACTOR MUST PROTECT AND MAINTAIN EXISTING STREET LIGHTING IN SERVICE. ANY INTERRUPTION OR DAMAGE TO STREET LIGHTING SERVICE, STREET LIGHT POLE OR CONDUIT/CABLE SHALL BE REPAIRED AS DIRECTED BY DOT STREET LIGHT MAINTENANCE AND BGE AT CONTRACTOR'S OWN EXPENSE.

STANDARD WATER NOTES

- THE CONTRACTOR MUST NOTIFY "MISS UTILITY" AT 1-800-257-7777 AT LEAST FIVE (5) DAYS PRIOR BEGINNING WORK.
- NOTIFY WATER AND WASTEWATER MAINTENANCE DIVISION (410-396-7870) AT LEAST TWO (2) WEEKS PRIOR TO STARTUP OF CONSTRUCTION ON THE WATER SERVICE. FOR SANITARY, CONDUIT, STORM WATER SERVICES, CONTACT THE PERMIT INSPECTION SECTION (410-396-4059). THE CONTRACTOR MUST RECEIVE WRITTEN NOTICE TO PROCEED FROM WATER AND WASTEWATER MAINTENANCE DIVISION OR THE PERMIT INSPECTION SECTION PRIOR TO PERFORMING ANY WORK.
- FOR METER INSTALLATION, CONTRACTOR MUST NOTIFY BALTIMORE CITY BUREAU OF WATER AND WASTEWATER (410-396-1663) 72 HOURS BEFORE STARTING WORK. COMPLETE METER INSTALLATION TO BE INSPECTED BY THE WATER AND WASTEWATER MAINTENANCE DIVISION REPRESENTATIVE PRIOR TO PLACEMENT OF TOP SLAB.
- THE CONTRACTOR SHALL ARRANGE TO PICK UP METER AT THE DEPARTMENT OF PUBLIC WORKS METER SHOP ON FRANKLINTOWN ROAD.
- ALL EXISTING WATER VALVES SHALL BE OPERATED BY WATER AND WASTEWATER MAINTENANCE DIVISION FORCES ONLY. NOTIFY MR. ANTHONY STEVENSON (410-978-5981) AT LEAST SEVEN (7) WORKING DAYS IN ADVANCE OF ANY NECESSARY VALVE OPERATIONS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE DEPARTMENT OF TRANSPORTATION FRANCHISE AGREEMENT AND THE CITY OF BALTIMORE BOOK OF STANDARDS, CITY OF BALTIMORE MANUAL OF DESIGN PROCEDURE AND CRITERIA.
- THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR OR OVER EXISTING WATER FACILITIES.
- ALL SERVICES MUST BE FLUSHED PRIOR TO SETTING METERS.
- SERVICE MUST BE CAPPED AND THE COMPLETED SERVICE WILL BE VISUALLY INSPECTED FOR LEAKS.
- ALL SERVICES TO BE ABANDONED AT THE MAINS AND ALL METERS MUST BE RELOCATED WITHOUT THE WRITTEN PERMISSION OF THE BUREAU OF WATER AND WASTEWATER.
- THE DEVELOPER MUST VERIFY THROUGH THE UTILITY BILLING SECTION (410-396-5533) THE SERVICE ACCOUNT AND METER NUMBERS FOR ALL EXISTING WATER SERVICES TO REMAIN OR TO BE ABANDONED AND SHOWN ON THE PROPOSED PLANS.
- METERS ARE NOT PERMITTED TO BE INSTALLED IN THE ROADWAY OR DRIVEWAYS.
- CONTRACTOR MUST NOTIFY BGE (410-281-3507) AT LEAST TWO (2) DAYS PRIOR TO CONSTRUCTION.
- DUCTILE IRON PIPE SHALL BE CLASS 54.
- THE CONTRACTOR SHALL NOTIFY THE BUREAU OF WATER AND WASTEWATER, METER REPAIR SHOP (410-396-0170) (FOR METERS 1-1/2" AND LARGER NOTIFY MR. MURRAY MILLER AT 410-977-1271) ALSO AT LEAST ONE (1) WEEK PRIOR TO PICKUP OF METERS.
- METERS DESIGNATION, CONTRACTOR MUST NOTIFY BALTIMORE CITY BUREAU OF WATER AND WASTEWATER (410-396-1663) 72 HOURS BEFORE STARTING WORK.
- THE PROPOSED WATER SERVICE CONNECTION WILL BE INSTALLED A MINIMUM OF TEN (10) FEET FROM SANITARY SEWER CONNECTION.
- STANDARD BUTTRESSES FOR VERTICAL BENDS AND CAPS SHALL CONFORM TO BC 837.06 AND BC 837.22. BC 837.06 AND BC 837.22 ARE OLD DETAILS. THE NEW DETAILS ARE BC 861.01 AND BC 867.01.
- THE CONTRACTOR SHALL CONFIRM INVERT ELEVATIONS OF EXISTING WATER MAINS AND ALL UTILITY CROSSINGS PRIOR TO ANY NEW CONSTRUCTION. ANY DEVIATION NOTED FROM TEST PIT INFORMATION WILL REQUIRE RED LINED REVISED PLANS APPROVED BY THE UTILITY ENGINEERING SECTION PRIOR TO ANY NEW CONSTRUCTION.
- DUCTILE IRON PIPE FITTINGS SHALL MEET THE LATEST AWWA C110/A21.10 AND C153/A21.51 (PRESSURE RATING SHALL BE 350 PSI).
- THE CONTRACTOR SHALL INSTALL NON-DETECTABLE TAPE ON ALL RESTRAINED JOINT PIPE WHICH SHALL EXTEND 12" ON EACH SIDE OF THE RESTRAINED JOINT PIPE. CONTACT WATER ENGINEERING CUSTOMER SERVICE AT 410-396-1483 FOR DETAILED SPECIFICATIONS OF THE NON-DETECTABLE TAPE FOR RESTRAINED JOINT PIPE.

STANDARD HIGHWAY NOTES

- PAVEMENT REPAIR IN McCULLOH STREET SHALL BE IN ACCORDANCE WITH (B.C. 576.19-1), (B.C. 576.19-2), (B.C. 500.13-1) AND (B.C. 500.13-2)
- DISTURBED CURBS SHALL BE REPAIRED IN-KIND TO THE NEAREST JOINT. FOR NEW CURB INSTALLATION, A 2-FOOT STRIPPING DETAIL IS REQUIRED TO BE SHOWN ON THE PLANS.
- SIDEWALKS SHALL BE REPAIRED JOINT-TO-JOINT WITH 5 INCHES OF MIX NO. 2 CONCRETE ON 3 INCHES OF CR-6. SEE CITY STANDARD DETAILS (BC 655.01) AND (BC 655.05).

STANDARD TRAFFIC NOTES

- ALL TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MARYLAND M.U.T.C.D., THE MARYLAND S.H.A. WORK ZONE TRAFFIC CONTROL STANDARDS AND DETAILS, AND THE CITY OF BALTIMORE WORK ZONE AND TRAFFIC CONTROL STANDARDS AND DETAILS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY, INSTALL, AND MAINTAIN ALL TRAFFIC CONTROL EQUIPMENT FOR THE DURATION OF THIS CONTRACT.
- CONTRACTOR SHALL MAINTAIN A MINIMUM FOUR (4) FOOT WIDE PEDESTRIAN FOOTWAY OR IMPLEMENT AN APPROPRIATE PEDESTRIAN DETOUR, APPROVED BY DOT-TRAFFIC, WHILE ACTIVELY WORKING IN THE STREET IN ACCORDANCE WITH ADA GUIDELINES AND APPROPRIATE SHA AND CITY STANDARDS.
- ALL EXCAVATIONS AND TRENCHES SHALL BE PLATED AT THE END OF EACH WORKDAY AND "STEEL PLATES AHEAD" WARNING SIGNS DISPLAYED IN ADVANCE. PLATES ARE TO BE RECESSED PER BC 576.17-2 IN THE WINTER TO AVOID SNOW PLOWS KNOCKING THEM OUT OF POSITION.
- THE CONTRACTOR MUST CONTACT THE DEPARTMENT OF TRANSPORTATION STAFF (443) 984-2513 TWO (2) WEEKS PRIOR TO THE START OF CONSTRUCTION AND ONE (1) WEEK PRIOR TO ANY CHANGES TO MAINTENANCE OF TRAFFIC (M.O.T.) PLAN.
- THE CONTRACTOR SHALL OBTAIN PERMITS FOR WORK WITHIN THE PUBLIC RIGHT OF WAY FROM THE DEPARTMENT OF TRANSPORTATION, RIGHT-OF-WAY PERMITS SECTION. APPLICATIONS FOR PERMITS ARE ACCEPTED AT THEIR OFFICE (410) 396-4508 | THE ABEL WOLMAN MUNICIPAL BUILDING LOBBY, 200 NORTH HOLIDAY STREET, LOBBY-ROOM 6. THE CONTRACTOR MAY BE BILLED ADDITIONAL TRAFFIC INSPECTION FEES NOT RELATED TO PREVIOUS COSTS.
- NO WORK OR DISRUPTIONS TO TRAFFIC BETWEEN THE HOURS OF 6:00AM - 8:00AM AND 3:00PM - 6:00PM ON WEEKDAYS. THE CONTRACTOR MUST GET APPROVAL FROM THE DEPARTMENT OF TRANSPORTATION IN WRITING FOR ANY WORK ON HOLIDAYS OR WEEKENDS.
- THE CONTRACTOR MUST MAINTAIN A MINIMUM OF ONE (1) ELEVEN-FOOT (11') LANE OF TRAFFIC IN THE DIRECTION OF TRAVEL ON McCULLOH STREET AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY SIGNING, FLEX POSTS, AND PAVEMENT MARKINGS DAMAGED OR DESTROYED DURING CONSTRUCTION, INCLUDING THOSE OUTSIDE THE PROJECT LIMITS.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY TEMPORARY NO STOPPING PROHIBITED SIGNING THAT WILL BE NECESSARY TO COMPLETE THIS PROJECT. A MINIMUM OF SEVENTY-TWO (72) HOURS NOTICE IS REQUIRED FOR ANY TEMPORARY PARKING RESTRICTIONS.

GENERAL NOTES

- CONTRACTOR SHALL NOTIFY FOLLOWING AT LEAST 14 DAYS PRIOR TO STARTING WORK.
 - MISS UTILITY 800-257-7777
 - STREET LIGHT MAINTENANCE 410-396-1311
 - CONDUIT MAINTENANCE 410-396-1515
- CONDUITS EXIST WITHIN THE WORK AREA. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXCAVATING AND INSTALLING NEW UTILITIES. IN THE EVENT PORTIONS OF THE EXISTING BALTIMORE CITY CONDUIT SYSTEM ARE DAMAGED AS A RESULT OF PROJECT CONSTRUCTION, REPAIR OR REPLACEMENT OF THE DAMAGED SECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF BALTIMORE CITY STANDARDS AND SPECIFICATIONS. FOR SPLIT DUCT REFER TO BALTIMORE CITY DETAIL 802.03-4. REPAIRS WILL BE AT THE CONTRACTOR'S EXPENSE AND APPROVED BY A CONDUIT INSPECTOR.
- CONTRACTOR TO NOTIFY ALL CONDUIT LEASES THREE (3) DAYS PRIOR TO PERFORMING WORK. CONTACT THE CONDUITS SECTIONS AT 410-396-8914 TO GET THIS INFORMATION.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING OVER OR NEAR EXISTING UTILITIES. EXISTING UTILITIES SHOWN ON THE PLANS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CITY DOES NOT WARRANT OR GUARANTEE THE COMPLETENESS OF THE INFORMATION GIVEN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT LOCATIONS TO THEIR OWN SATISFACTION, PRIOR TO COMMENCING WORK.
- SHOULD THE CONTRACTOR DISCOVER ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ANY DEVIATIONS FROM THE PLANS WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO NOTIFY STANLEY JACOBS AT (410) 396-2889 PRIOR TO ALL EXISTING STREET AND PAVEMENT DISTURBANCES.

EXISTING UTILITY NOTES

- CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE AND IN SERVICE THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE NOTED. OWNER AUTHORIZATION IS REQUIRED PRIOR TO INTERRUPTING UTILITY SERVICES.
- THE CONTRACTOR IS RESPONSIBLE TO LOCATE AND PROTECT ALL UTILITIES INCLUDING INLETS AND FIRE HYDRANTS WITHIN AND ADJACENT TO THE AREA OF WORK. ANY DAMAGES CAUSED DURING CONSTRUCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- MAINTAIN UNOBSTRUCTED ACCESS TO EXISTING WATER METERS DURING CONSTRUCTION.
- CONTRACTOR SHALL ENSURE THAT EVERY MANHOLE FRAME AND COVER AND CLEANOUT WHICH IS EXISTING AND TO REMAIN SHALL HAVE TOPS RESET TO NEW SIDEWALK OR STREET GRADES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AND SHORING FOR ALL EXISTING UTILITIES.

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 NUMBER 16294, EXPIRATION DATE: 12-14-2019 **2020 R/L**

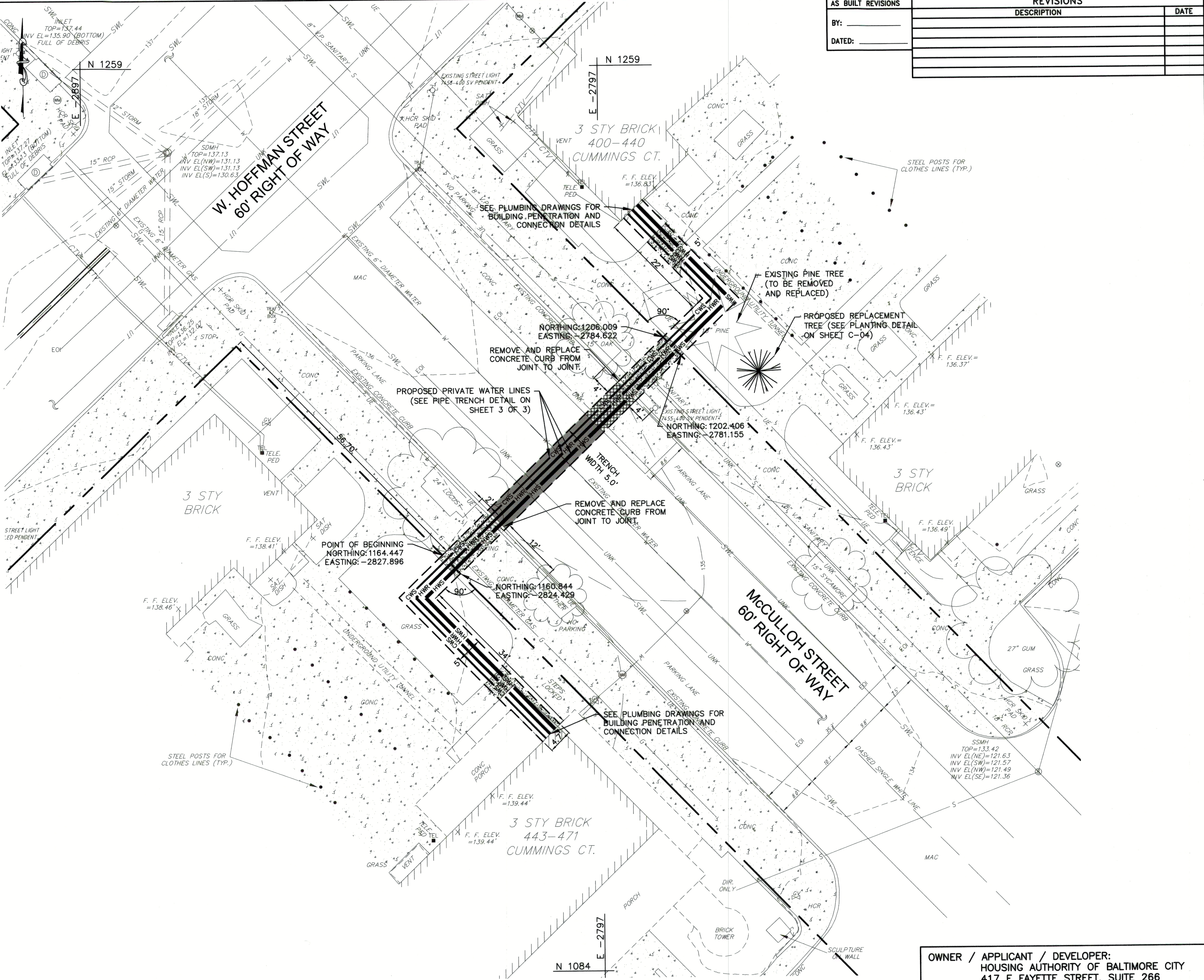
COORDINATES AS SHOWN HEREON ARE BASED ON THE BALTIMORE SURVEY CONTROL SYSTEM AS REFERENCED FROM TRAVERSE/CONTROL STATIONS:
 29849 NORTH 40.179 EAST 2740.839
 29850 NORTH 313.123 EAST 2420.110

ELEVATIONS SHOWN HEREON ARE BASED ON BALTIMORE CITY BENCHMARKS:
 NO 9175 BRASS SCREW IN S.E. CORNER OF SIGNAL POLE BASE, IN N.E. END OF HARBOR CITY BLVD. MEDIAN, AT McCULLOH STREET. ELEVATION 121.508

BRINJAC ENGINEERING INC.
 ENGINEER: DAVID A. BRINJAC
 DATE: 11/20/18 LIC. NO. 16294
 DESIGNED BY: AKA
 DRAWN BY: BCF
 CHECKED BY: DAB

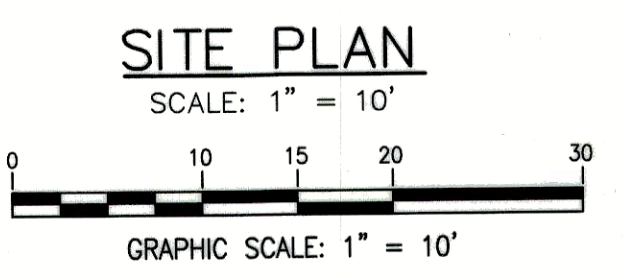
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BY: [Signature]	AL	AL	SM	SM	SB	TB	SM	SM	SM	SM	TDB
DATE: 11/20/18	11-28-18	12/1/18	3/7/19	3/7/19	11-28-18	1-22-19	3/7/19	11-20-18	3/7/19	3/7/19	12-4-18

WARD: 11
 SECTION: 7 SECT: APP.
 BLOCK: 0457/0458
 LOT: 001 & 001



BILL OF MATERIALS (WITHIN RIGHT-OF-WAY)

Amount	Unit	Material
60	LF	4" Diameter Copper Hot Water Supply Line with 8" Diameter High Impact Seamless Polyvinyl Chloride (PVC) Jacketing and Polyurethane Foam Insulation
60	LF	3" Diameter Copper Hot Water Return Line with 6" Diameter High Impact Seamless Polyvinyl Chloride (PVC) Jacketing and Polyurethane Foam Insulation
60	LF	4" Diameter Ductile Iron Cement Lined Cold Water Supply Line



Assistant Chief-Engineering and Capital Improvements
 HOUSING AUTHORITY OF BALTIMORE CITY
 DATE: 03/20/19

Executive Director, HOUSING AUTHORITY OF BALTIMORE CITY
 DATE: 03/25/19

Chief, TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION
 DATE: 11/30/19

Director, DEPARTMENT OF TRANSPORTATION
 DATE: 2/4/19

Chief, OFFICE OF ENGINEERING AND CONSTRUCTION
 DATE: 3/19/2019

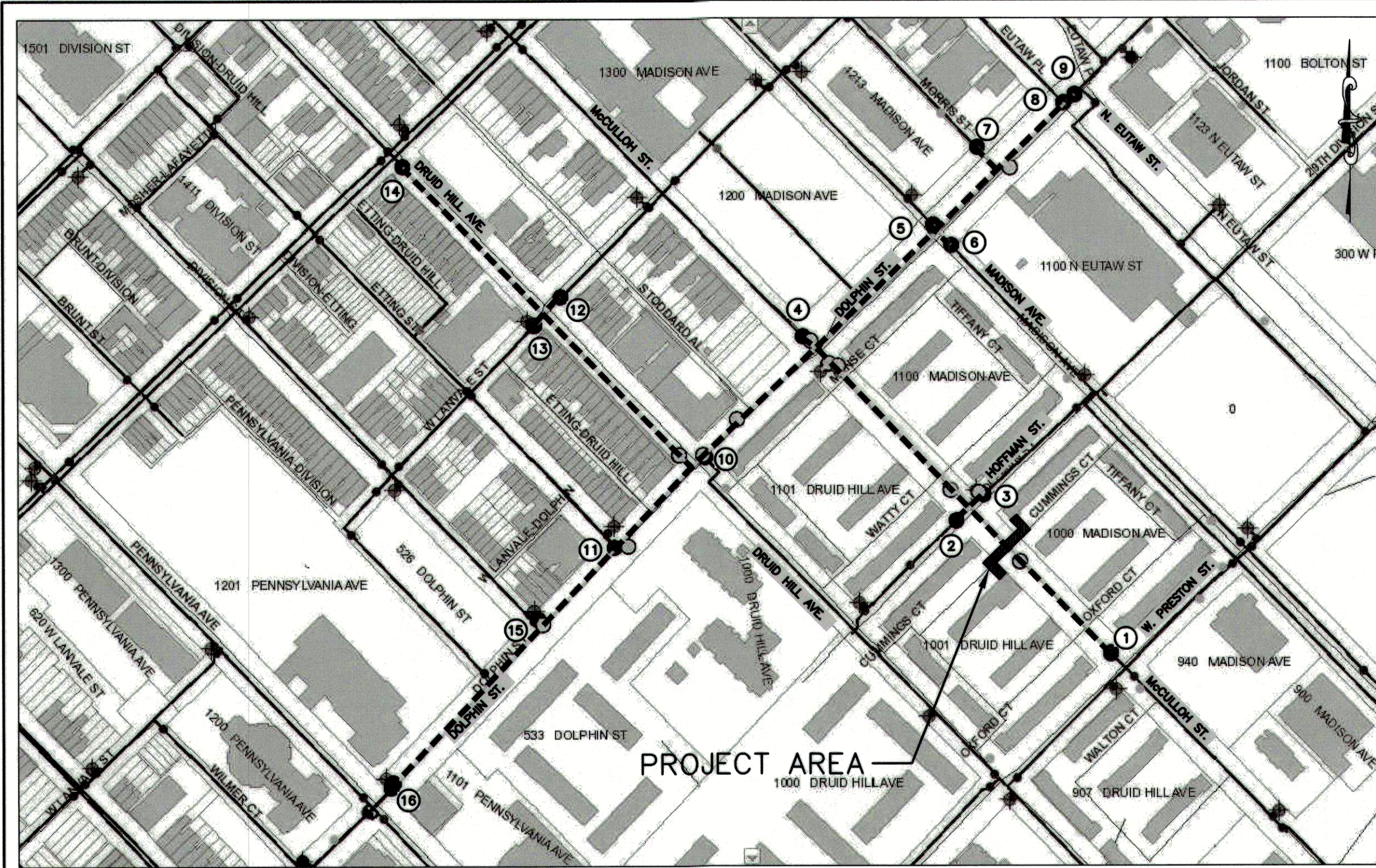
Director DEPARTMENT OF PUBLIC WORKS
 DATE: 2/9/19

OWNER / APPLICANT / DEVELOPER:
 HOUSING AUTHORITY OF BALTIMORE CITY
 417 E FAYETTE STREET, SUITE 266
 BALTIMORE, MD 21202-3431

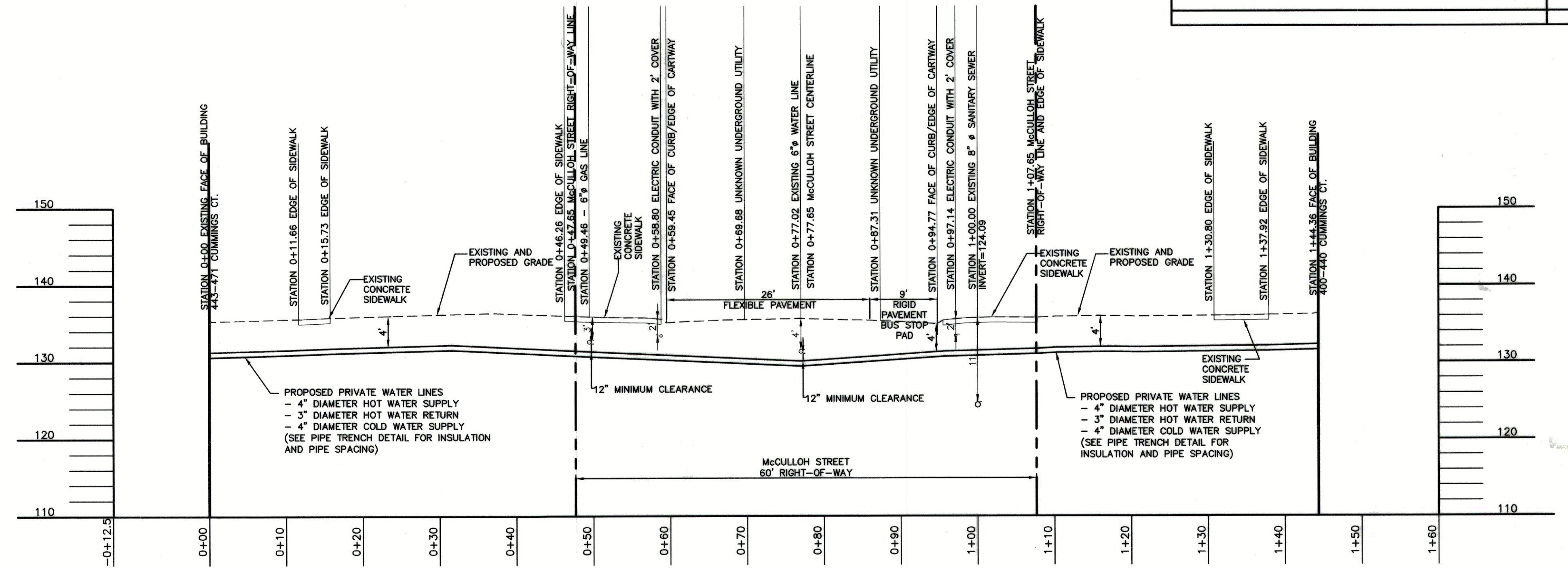
CITY OF BALTIMORE
FRANCHISE AGREEMENT # _____
 (FORMERLY DEVELOPERS AGREEMENT NO. 1620)
 FOR
McCULLOH HOMES
 1000 BLOCK OF McCULLOH STREET
 INSTALLATION OF PRIVATE WATER LINES
 4" DIAMETER HOT WATER SUPPLY
 3" DIAMETER HOT WATER RETURN
 4" DIAMETER COLD WATER SUPPLY

SITE PLAN
 SCALE: AS SHOWN
 DATE: 11/20/18
 SHEET 2 OF 3

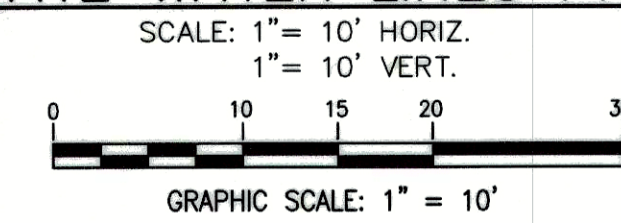
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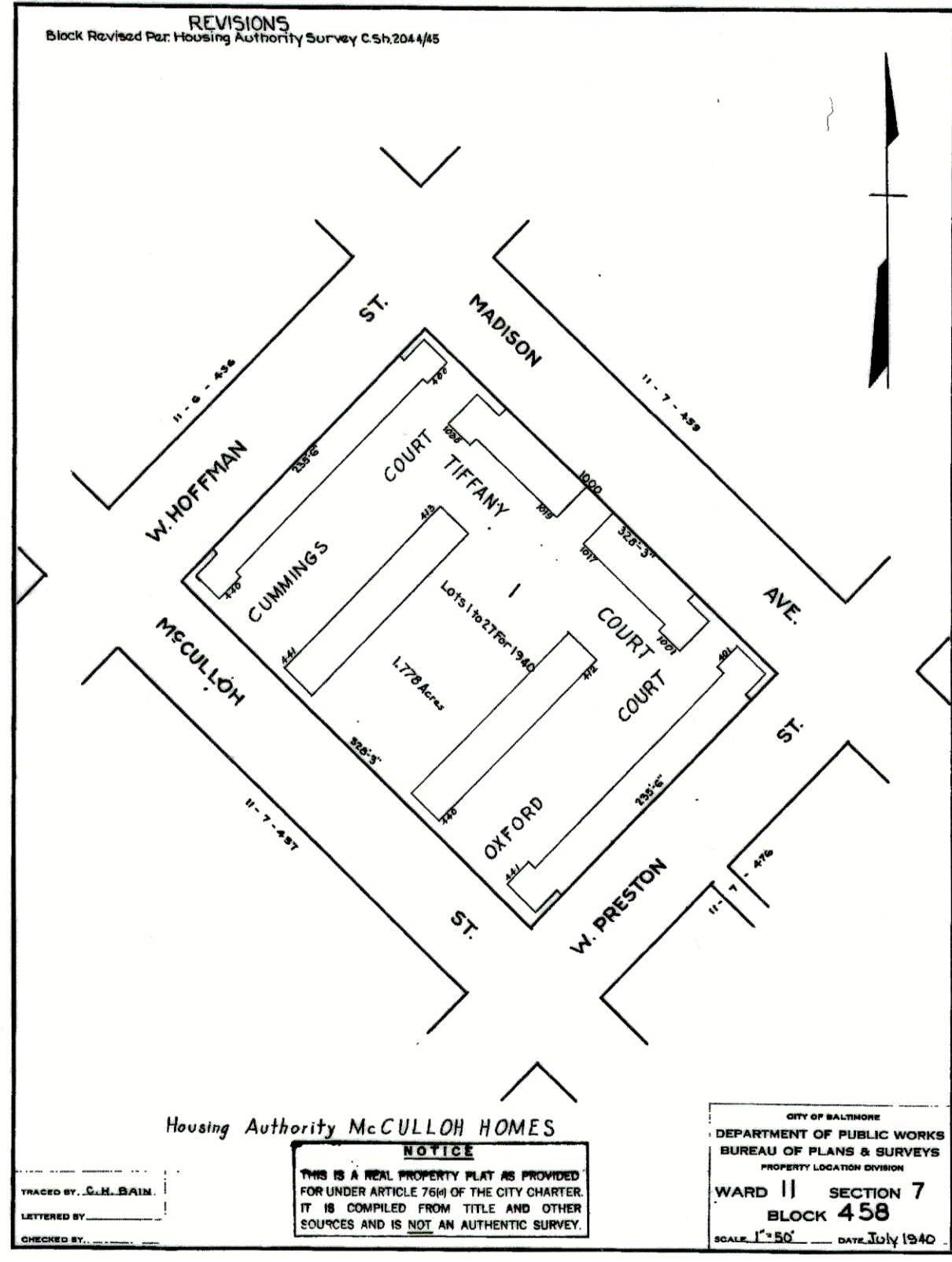
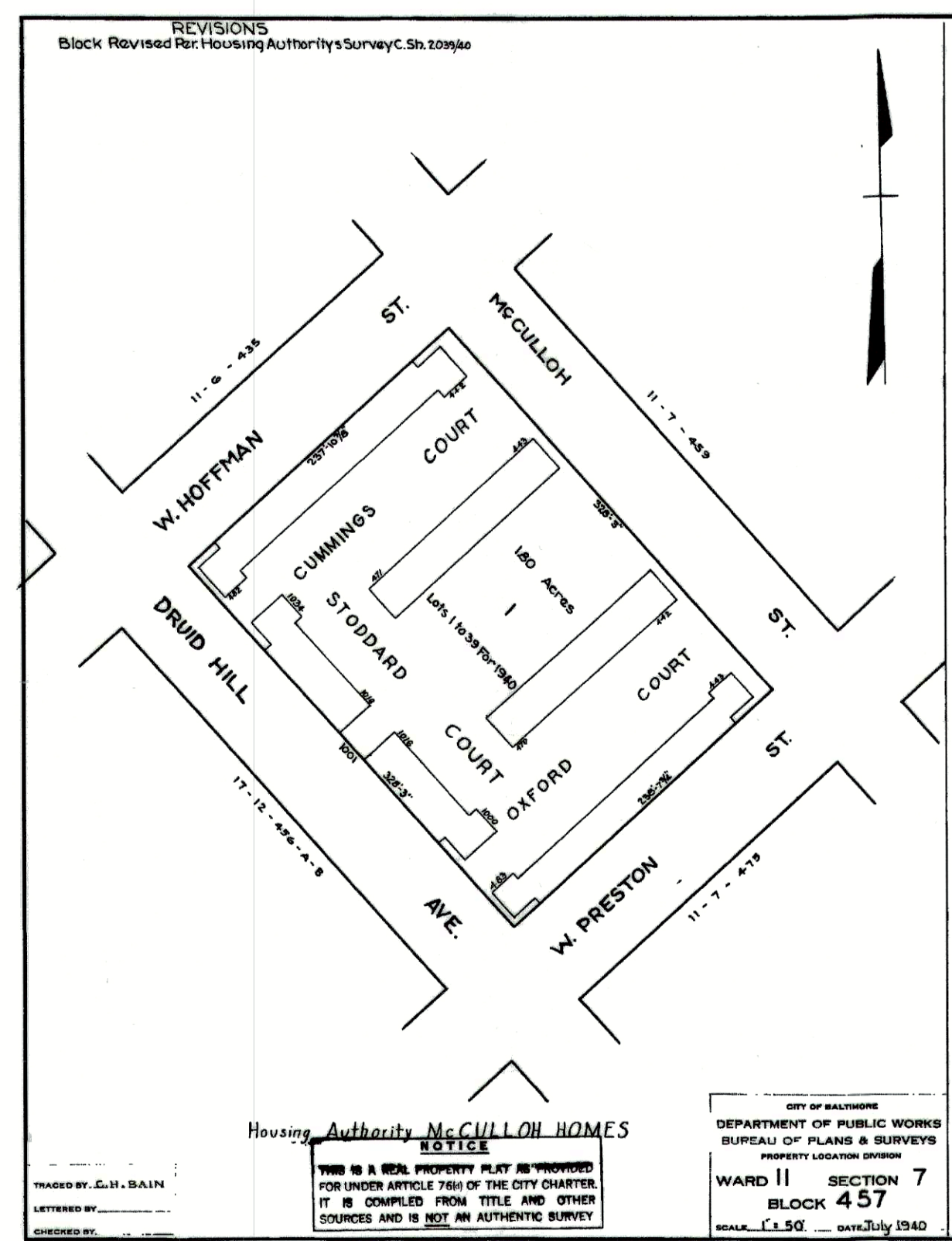
--- WATER LINE TO BE ISOLATED.
 (16) - WATER VALVES TO BE CLOSED IN THE EVENT OF AN EMERGENCY.
EMERGENCY SHUT OFF DIAGRAM
 NOT TO SCALE



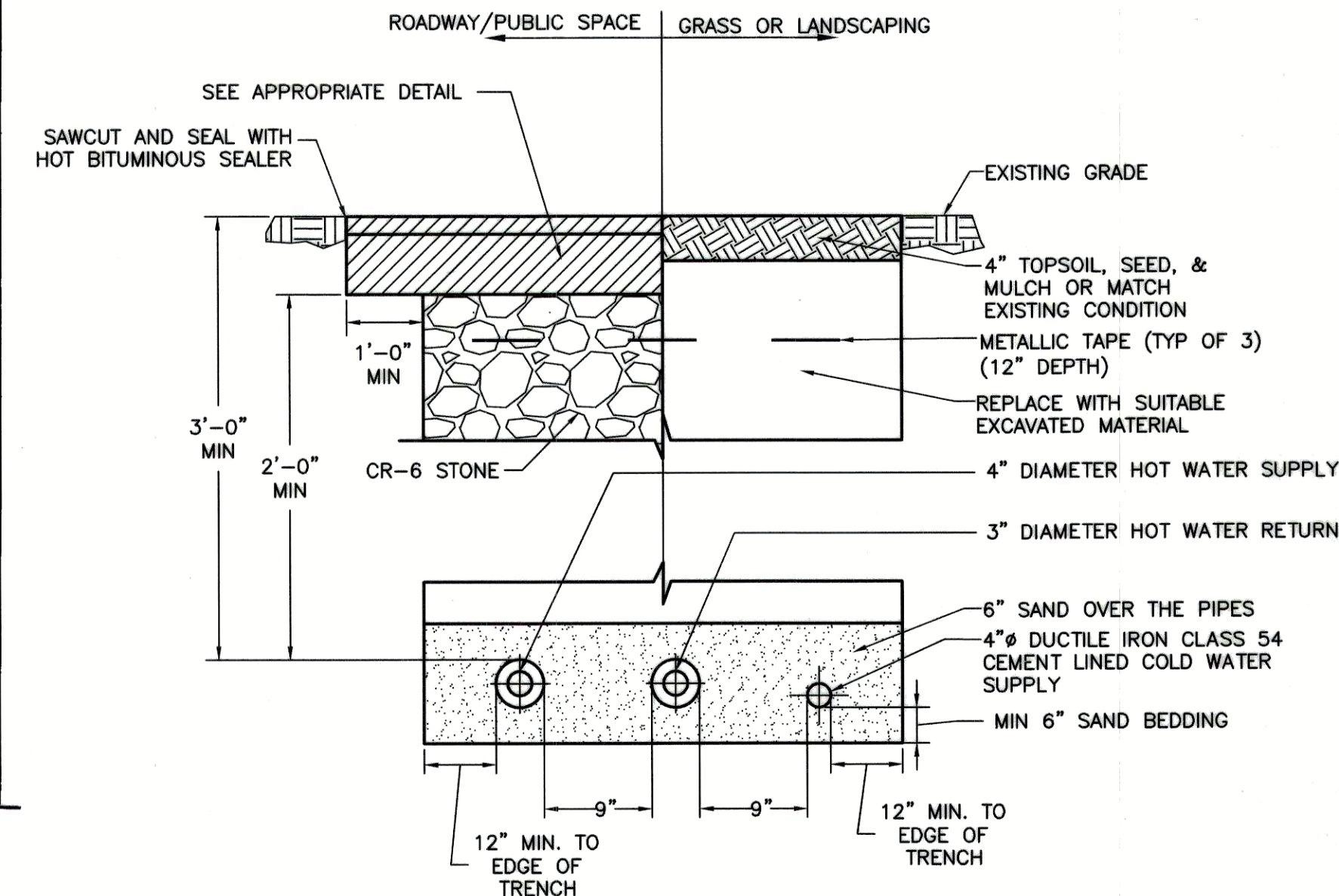
PRIVATE WATER LINES PROFILE



- NOTES:
- 12" MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN OUTSIDE OF EXISTING UTILITIES AND OUTSIDE OF ALL WATER PIPES OR STRUCTURES.
 - THE SUPPLIER OF THE PRE-INSULATED PIPING SYSTEM SHALL BE RESPONSIBLE FOR THE DESIGN OF THE COMPLETE ENGINEERED PRE-INSULATED PIPING, INCLUDING CARRIER PIPE SELECTION, THERMAL INSULATION, PROTECTIVE JACKETING, FITTINGS, ANCHORS, THRUST BLOCK DESIGN, AND EXPANSION LOOPS OR EXPANSION ELBOWS IF REQUIRED.
 - PROVIDE DUCT BANK SUPPORT PER (BC 891.01) TO SUPPORT EXISTING ELECTRICAL CONDUIT.
 - THE PROFILE IS STATIONED BASED ON THE HOT WATER RETURN LINE.



PROPERTY PLATS
 NOT TO SCALE



- NOTES:
- COMPACT ALL BACKFILL UNDER PAVED OR GRAVEL AREAS TO 95% AND ALL BACKFILL UNDER GRASSED OR LANDSCAPED AREAS TO 90% OF ITS MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH THE MODIFIED PROCTOR METHOD (ASTM D1557).
 - ALL CONSTRUCTION IN ROADWAYS SHALL BE IN ACCORDANCE WITH BALTIMORE CITY DEPARTMENT OF TRANSPORTATION REQUIREMENTS.
 - 24" MINIMUM COVER REQUIRED FROM TOP OF INSULATED PIPE TO TOP OF COMPACTED SUBBASE.
 - HOT WATER SUPPLY SHALL BE 4" DIAMETER COPPER WITH 8" DIAMETER HIGH IMPACT SEAMLESS POLYVINYL CHLORIDE (PVC) CLASS 12454 B, JACKETING MATERIAL AND POLYURETHANE FOAM INSULATION.
 - HOT WATER RETURN SHALL BE 3" DIAMETER COPPER WITH 6" DIAMETER HIGH IMPACT SEAMLESS POLYVINYL CHLORIDE (PVC) CLASS 12454 B, JACKETING MATERIAL AND POLYURETHANE FOAM INSULATION.
 - PRE-INSULATED PIPE TO BE SUPPLIED BY ENERGY TASK FORCE OR APPROVED EQUAL.
 - THE SUPPLIER OF THE PRE-INSULATED PIPING SYSTEM SHALL BE RESPONSIBLE FOR THE DESIGN OF THE COMPLETE ENGINEERED PRE-INSULATED PIPING, INCLUDING CARRIER PIPE SELECTION, THERMAL INSULATION, PROTECTIVE JACKETING, FITTINGS, ANCHORS, THRUST BLOCK DESIGN, AND EXPANSION LOOPS OR EXPANSION ELBOWS IF REQUIRED.
 - PROVIDE PAVEMENT REPAIR IN ACCORDANCE WITH BALTIMORE CITY STANDARD DETAILS BC 576.19-1, BC 576.19-2, BC 500.13-1, AND BC 500.13-2.

PIPE TRENCH DETAIL
 NO SCALE

Mohd Wad 03/30/19
 ASSISTANT CHIEF-ENGINEERING AND CAPITAL IMPROVEMENTS
 HOUSING AUTHORITY OF BALTIMORE CITY
 DATE

Thomas Dada A. 03/25/19
 EXECUTIVE DIRECTOR, HOUSING AUTHORITY OF BALTIMORE CITY
 DATE

Muhammad Khalid 2/4/19
 CHIEF, TRANSPORTATION ENGINEERING AND CONSTRUCTION DIVISION
 DIRECTOR, DEPARTMENT OF TRANSPORTATION
 DATE

Salim 3.14.2019
 CHIEF, OFFICE OF ENGINEERING AND CONSTRUCTION
 DIRECTOR DEPARTMENT OF PUBLIC WORKS
 DATE

OWNER / APPLICANT / DEVELOPER:
 HOUSING AUTHORITY OF BALTIMORE CITY
 417 E FAYETTE STREET, SUITE 266
 BALTIMORE, MD 21202-3431

CITY OF BALTIMORE
FRANCHISE AGREEMENT # _____
 (FORMERLY DEVELOPERS AGREEMENT NO. 1620)

FOR
McCULLOH HOMES
 1000 BLOCK OF McCULLOH STREET
 INSTALLATION OF PRIVATE WATER LINES
 4" DIAMETER HOT WATER SUPPLY
 3" DIAMETER HOT WATER RETURN
 4" DIAMETER COLD WATER SUPPLY

DETAILS

SCALE: AS SHOWN DATE: 11/20/18
 SHEET 3 OF 3

U:\Proj\Madison L. Marton, Inc.\MD\18.01980.00-McCulloh Homes Water Heating Replacement\DRM\Drawings\Civil\Franchise Agreement\C-FRANCHISE-AGREEMENT-18.01980.00.dwg bfrincher 11/20/2018 03:22:14 PM