

LOCATION MAP
(NOT TO SCALE)

UTILITY PLAN - LEGEND

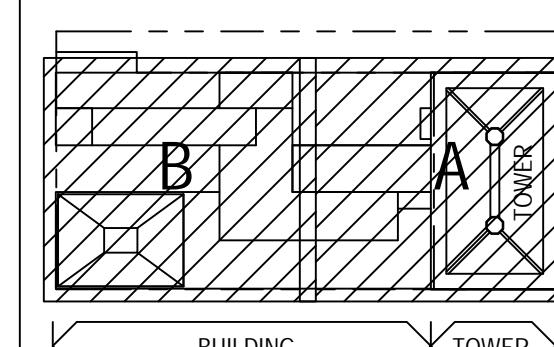
NEW STORM SEWER	---
NEW SANITARY SEWER	---
NEW WATER SERVICE	---
NEW STOP BOX AND VALVE	○
NEW FIRE HYDRANT	●
NEW FIRE DEPARTMENT CONNECTION	●
NEW GAS SERVICE	---

REV	DATE	ISSUE
04.17.2019	100% SCHEMATIC DESIGN ISSUE	
08.02.2019	50% DESIGN DEVELOPMENT ISSUE	
10.25.2019	50% DESIGN DEVELOPMENT ISSUE	
02.14.2020	PERMIT ISSUANCE	
06.05.2020	CONSTRUCTION DOCUMENTS ISSUE	
03.22.2021	DIVISION PERMIT	
06.03.2021	CROSS PERMIT REVISIONS	
09.09.2021	ALLEY SEWER REVISIONS	

OWNER
BERROCK MANAGEMENT SERVICES, LLC
630 Woodward Avenue
Detroit, MI 48226
(313) 545-8043

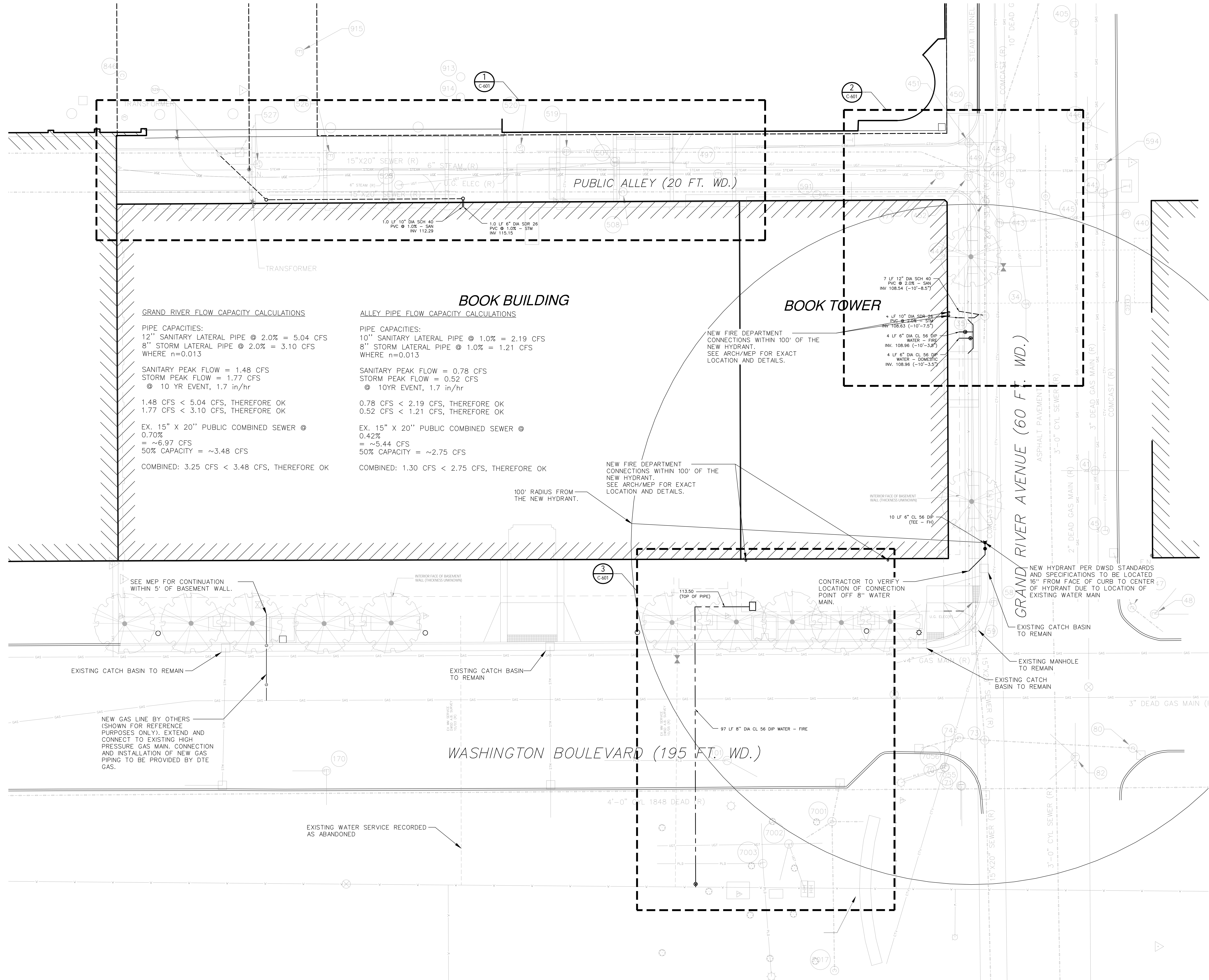
CONSULTANTS
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 (212) 334-2025
 AVIATION SECURITY / ACoustics CODE
 FEELER REVIEW
 ARUP
 77 Water Street
 New York, NY 10005
 (212) 896-3000
 AS-BUILT SURVEY / GEO-TECHNICAL
 LANGRAN
 360 West 31st Street
 New York, NY 10005
 (212) 896-3000
 FLS CODE/ADA
 KRAMER DESIGN GROUP
 1420 Broadway
 Detroit, MI 48226
 (313) 965-3399

LOCATION PLAN
 1249 Washington Blvd
 Detroit, MI 48226
 BLOCK: 0296 & 0299
 LOT: 07, 08, 09 & 10
 ZONING MAP: 1



REHABILITATION CONSTRUCTION

PROJECT NO:	SCALE:
UTILITY PLAN	
C-600	
PAGE:	OF:



BOOK BUILDING
 GRAND RIVER FLOW CAPACITY CALCULATIONS
 PIPE CAPACITIES:
 12" SANITARY LATERAL PIPE @ 2.0% = 5.04 CFS
 8" STORM LATERAL PIPE @ 2.0% = 3.10 CFS
 WHERE n=0.013
 SANITARY PEAK FLOW = 1.48 CFS
 STORM PEAK FLOW = 1.77 CFS
 @ 10 YR EVENT, 1.7 in/hr
 1.48 CFS < 5.04 CFS, THEREFORE OK
 1.77 CFS < 3.10 CFS, THEREFORE OK
 EX. 15" X 20" PUBLIC COMBINED SEWER @ 0.70%
 = ~6.97 CFS
 50% CAPACITY = ~3.48 CFS
 COMBINED: 3.25 CFS < 3.48 CFS, THEREFORE OK

ALLEY PIPE FLOW CAPACITY CALCULATIONS
 PIPE CAPACITIES:
 10" SANITARY LATERAL PIPE @ 1.0% = 2.19 CFS
 8" STORM LATERAL PIPE @ 1.0% = 1.21 CFS
 WHERE n=0.013
 SANITARY PEAK FLOW = 0.78 CFS
 STORM PEAK FLOW = 0.52 CFS
 @ 10YR EVENT, 1.7 in/hr
 0.78 CFS < 2.19 CFS, THEREFORE OK
 0.52 CFS < 1.21 CFS, THEREFORE OK
 EX. 15" X 20" PUBLIC COMBINED SEWER @ 0.42%
 = ~5.44 CFS
 50% CAPACITY = ~2.75 CFS
 COMBINED: 1.30 CFS < 2.75 CFS, THEREFORE OK

SEE MEP FOR CONTINUATION WITHIN 5' OF BASEMENT WALL.

EXISTING CATCH BASIN TO REMAIN

EXISTING CATCH BASIN TO REMAIN

NEW GAS LINE BY OTHERS (SHOWN FOR REFERENCE PURPOSES ONLY). EXTEND AND CONNECT TO EXISTING HIGH PRESSURE GAS MAIN. CONNECTION AND INSTALLATION OF NEW GAS PIPING TO BE PROVIDED BY DTE GAS.

EXISTING WATER SERVICE RECORDED AS ABANDONED

WASHINGTON BOULEVARD (195 FT. WD.)

GRAND RIVER AVENUE (60 FT. WD.)

100' RADIUS FROM THE NEW HYDRANT.

NEW FIRE DEPARTMENT CONNECTIONS WITHIN 100' OF THE NEW HYDRANT. SEE ARCH/MEP FOR EXACT LOCATION AND DETAILS.

NEW FIRE DEPARTMENT CONNECTIONS WITHIN 100' OF THE NEW HYDRANT. SEE ARCH/MEP FOR EXACT LOCATION AND DETAILS.

CONTRACTOR TO VERIFY LOCATION OF CONNECTION POINT OFF 8" WATER MAIN.

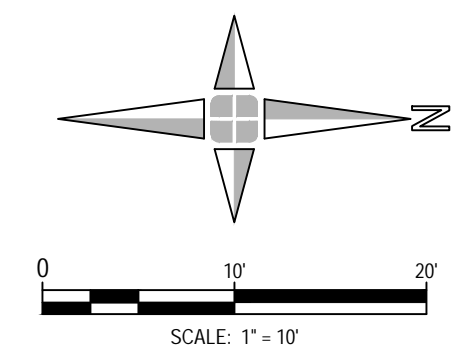
NEW HYDRANT PER DWSO STANDARDS AND SPECIFICATIONS TO BE LOCATED 16" FROM FACE OF CURB TO CENTER OF HYDRANT DUE TO LOCATION OF EXISTING WATER MAIN

EXISTING CATCH BASIN TO REMAIN

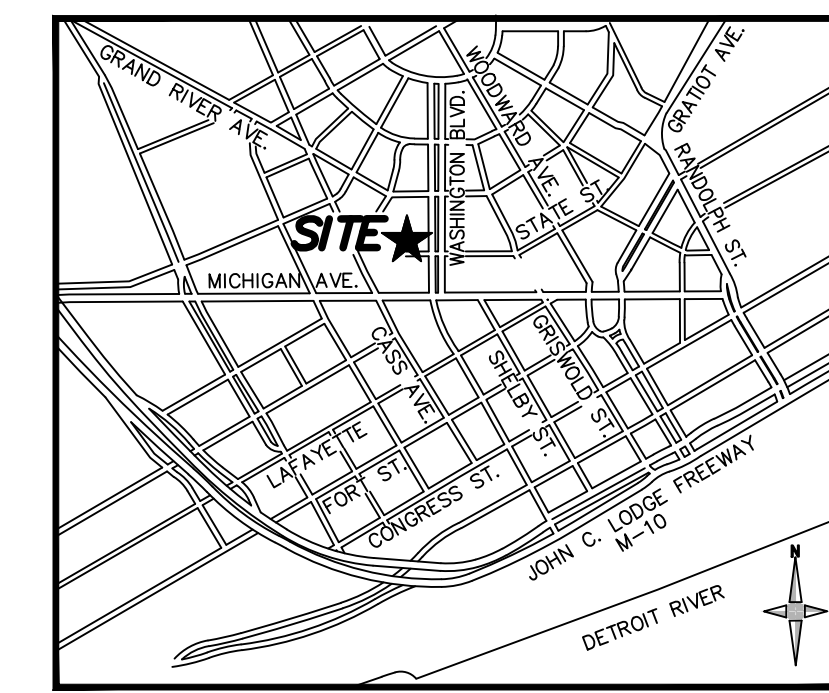
EXISTING MANHOLE TO REMAIN

EXISTING CATCH BASIN TO REMAIN

1 UTILITY PLAN
 C-600 1" = 10'



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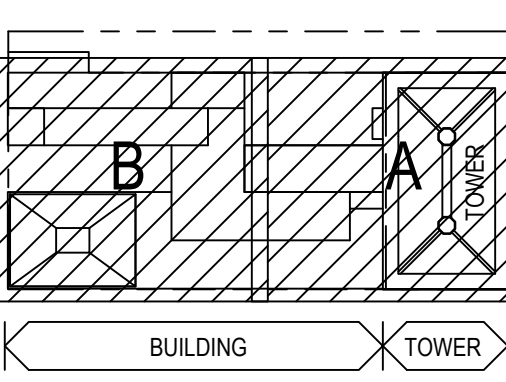
230 PARK AVENUE SOUTH THIRD FLOOR
NEW YORK, NY 10022
966-7874

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06.01.2021	DIVISION PERMIT REVISIONS	
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PLS CODE/ADA
KRAMER DESIGN GROUP
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(313) 966-3399

LOCATION PLAN
1249 Washington Blvd
Detroit, MI 48226
BLOCK: 00298 & 00299
LOT: 07, 08, 09 & 10
ZONING MAP: 1



REHABILITATION CONSTRUCTION

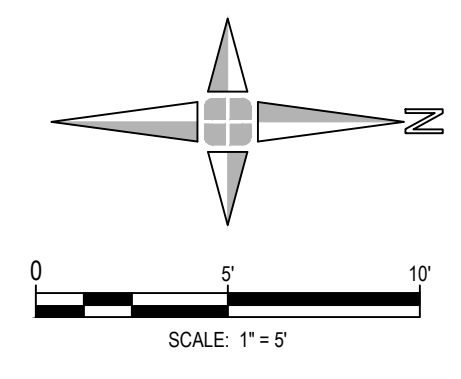
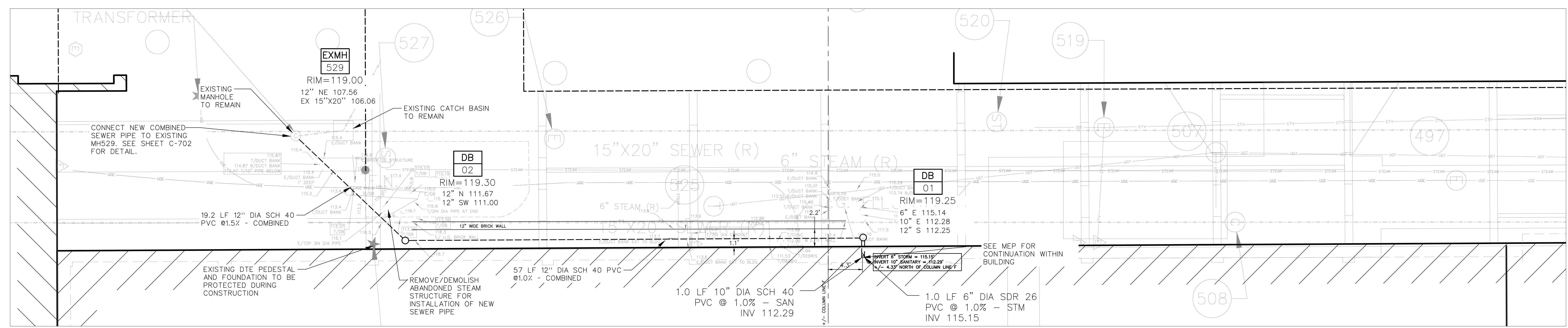
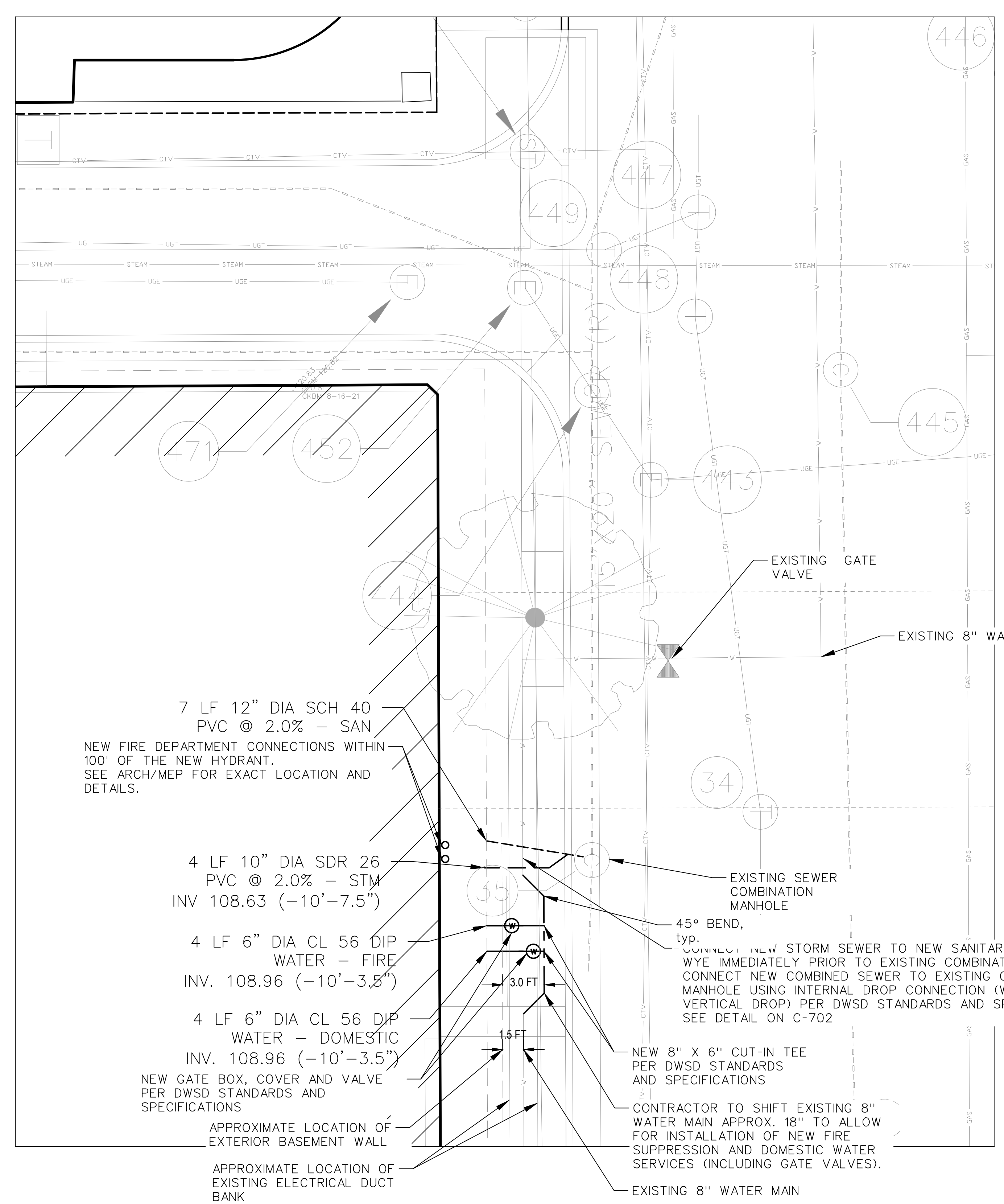
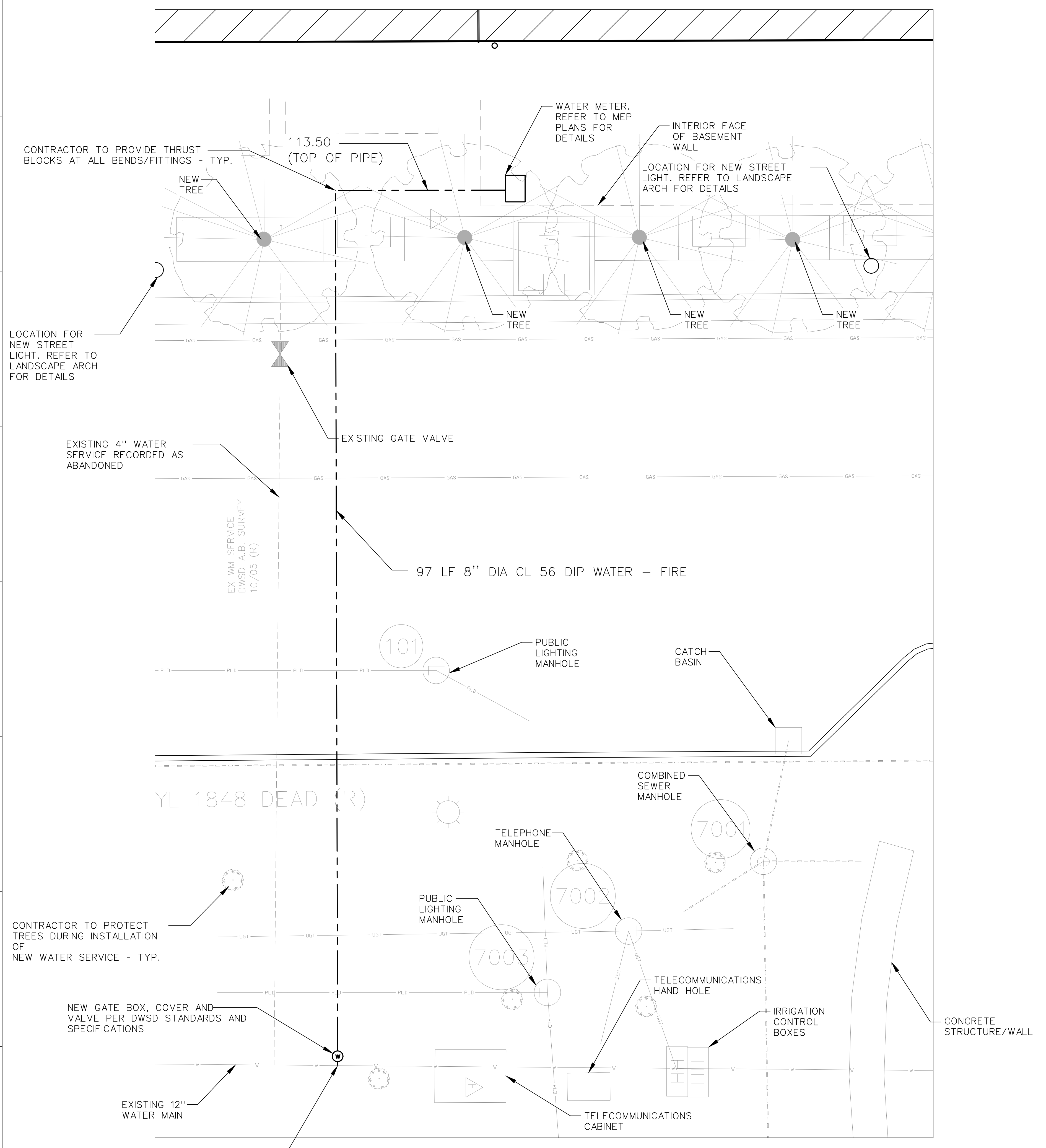


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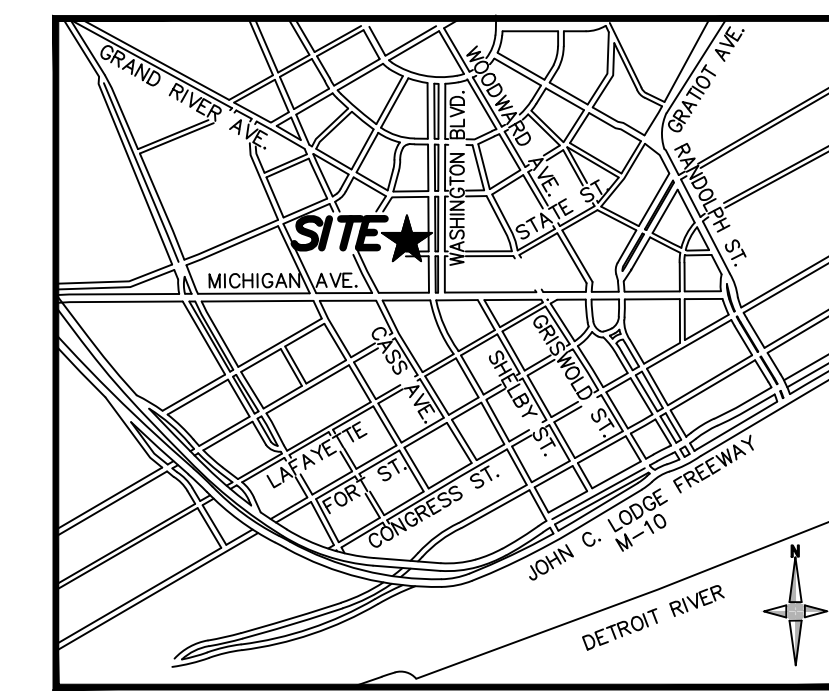
UTILITY PLAN

C-601

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LOCATION MAP
(NOT TO SCALE)



200 PARK AVENUE SOUTH, THIRD FLOOR
NEW YORK, NY 10003
914-270-7400

REV	DATE	ISSUE
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	09.09.2021	ALLEY SEWER REVISIONS

GENERAL NOTES

- SEE C-001 FOR ADDITIONAL PROJECT NOTES AND INFORMATION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF ANY CONFLICT OCCURS BETWEEN EXISTING AND PROPOSED UTILITIES.
- THE CONTRACTOR SHALL PROTECT ALL ADJACENT STRUCTURES AND UTILITIES DURING CONSTRUCTION OF THE NEW SEWER IN THE ALLEY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PUBLIC OR PRIVATE UTILITIES. ANY DAMAGE SHALL BE REPAIRED AT NO COST TO THE OWNER OR THE CITY OF DETROIT.
- THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED BY THE CITY OF DETROIT PRIOR TO CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PAY ALL FEES ASSOCIATED WITH WORK TO BE PERFORMED FOR STORM SEWER, SANITARY SEWER AND SO ON AS REQUIRED BY GOVERNING AGENCIES.
- THE CONTRACTOR SHALL INSPECT AND CLEAN ALL NEW SEWER STRUCTURES IMMEDIATELY AFTER THEY HAVE BEEN INSTALLED AND PRIOR TO DEMOBILIZING FROM THE SITE.

OWNER
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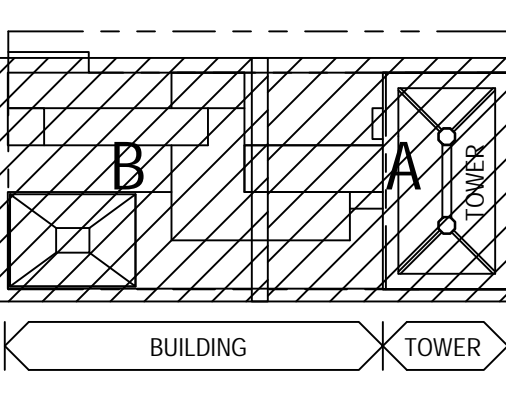
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REHABILITATION CONSTRUCTION

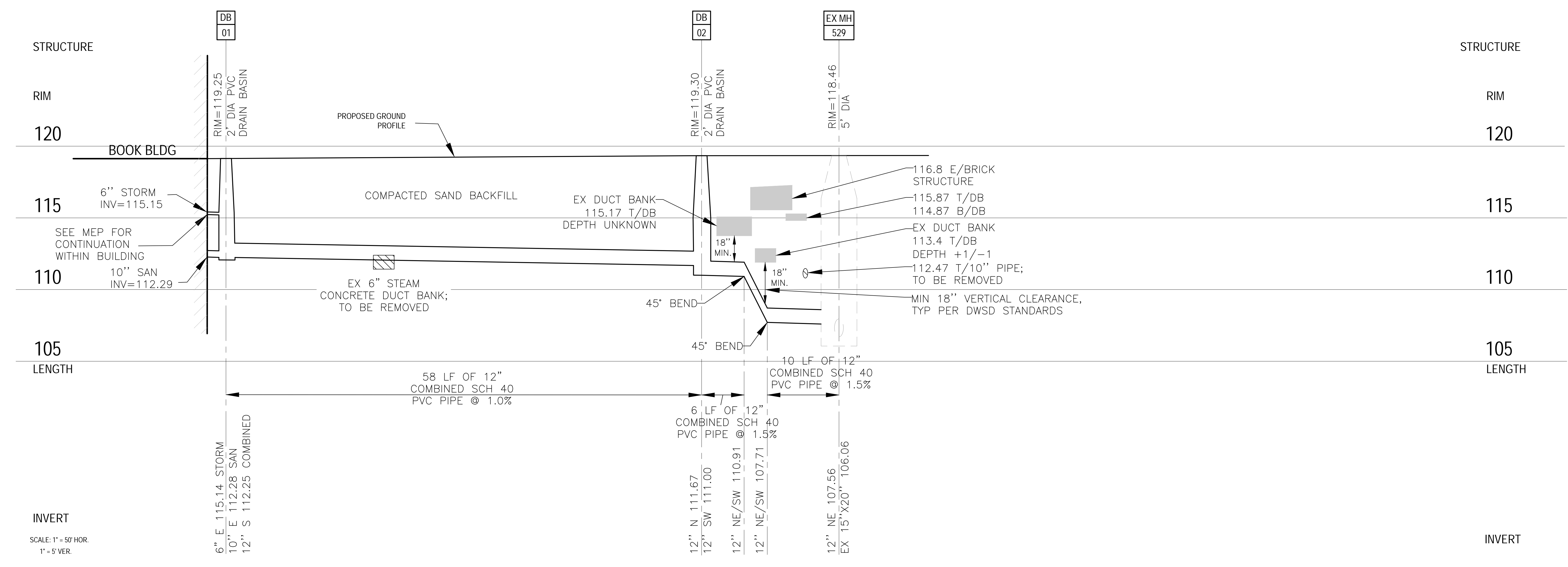


PROJECT NO: SCALE:

UTILITY PROFILE

C-602

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