

# UTILITY NOTES

ALL UTILITIES TO BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS. LOCATIONS OF UTILITIES WITHIN BUILDING SHOWN HERE ARE SCHEMATIC. ACTUAL LOCATIONS TO BE DETERMINED BY UTILITY CO. AND ARCHITECT.  
 REFER TO ANY PLUMBING PLANS FOR LOCATION OF DOWNSPOUTS, SANITARY LATERALS & UTILITY SERVICE ENTRANCES.  
 ALL UTILITY & SEWER RISERS IN SIDEWALK AREA ARE TO BE PROTECTED FROM IMPACT. CONTACT UTILITIES TO DETERMINE EXACT LOCATION OF CONNECTION AND WHERE PRACTICAL, IF EXISTING CONNECTIONS ARE TO BE MAINTAINED.  
 DISCONNECT ALL UTILITIES, DETERMINE, WHERE APPLICABLE, IF ANY EXISTING LATERALS ARE TO BE REUSED. UNUSED SANITARY SEWER LATERALS ARE TO BE REMOVED TO THE MAIN AND THE MAIN SEALED.  
 INTERIOR ROOF DRAINAGE LINES TO BE SIZED AND ROUTED TO DETENTION BASIN BY BUILDING MECHANICAL ENGINEER. SEE ARCHITECTURAL PLANS.

## OPERATIONAL & MAINTENANCE PLAN

- I. THE TANKS WILL NEED TO BE AT MINIMUM INSPECTED EVERY 6 MONTHS OR AFTER A 1" PER HOUR STORM EVENT. INSPECTION INCLUDE VERIFYING IF ANY DEBRIS HAS ACCUMULATED INSIDE THE TANK.
- II. MAINTENANCE RECORDS MUST BE KEPT ON-SITE BY THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AUTHORITY WITHIN 72 HOURS UPON THE AUTHORITY'S REQUEST TO REVIEW THESE RECORDS.
- III. THE AUTHORITY RESERVES THE RIGHT TO INSPECT ALL STORMWATER MANAGEMENT SYSTEMS. THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM SHALL PROVIDE ACCESS FOR INSPECTION TO THE AUTHORITY WITHIN 48 HOURS OF THE AUTHORITY'S REQUEST TO INSPECT THE STORMWATER MANAGEMENT SYSTEMS.
- IV. FAILURE TO MAINTAIN ADEQUATE MAINTENANCE RECORDS, PERFORM MAINTENANCE, AND/OR DENY THE AUTHORITY ACCESS TO MAINTENANCE RECORDS OR INSPECTION WITHOUT CAUSE IS SUBJECT TO FINES BY THE AUTHORITY AS DETAILED IN THE SEWER CONNECTION: APPLICATION PROCEDURES AND FEE SCHEDULE DOCUMENT.

## DESIGN NOTES

DESIGN METHOD BASED ON NJ RSI STANDARDS:

### CALCULATIONS

TOTAL SITE AREA: 2,500 SF  
 PRE-DEVELOPED:  
 EXISTING BUILDING: 721.55F  
 EXISTING PAVEMENT AREA: 1468 SF  
 IMPERVIOUS AREA TOTAL: 1032 SF

POST-DEVELOPMENT:  
 PROPOSED BUILDING: 1415.2 SF  
 PROPOSED PAVEMENT AREA: 356.9 SF  
 IMPERVIOUS AREA TOTAL: 2143.1 SF

WATER QUALITY: DETAIN A 1.25" OF RAINFALL IN TWO HRS WITHOUT DISCHARGING FROM THE OFFICE. SECOND CONTAIN A 100% REDUCTION IN DISCHARGE FROM SITE FOR A 2.75% REDUCTION FOR A 10YR. & 80% REDUCTION FOR 100 YEAR STORM EVENT AS PER NJDEP REGULATIONS FOR PRE-DEVELOPED TO POST DEVELOPED CONSTRUCTION. DESIGN METHODOLOGY: MODIFIED RATIONAL METHOD

AS PER JCMUA REGULATION 0.6 GAL PER SF OF IMPERVIOUS AREA CALCULATOR ARE 2096 SFX0.6 GAL/SF = 1258 GAL  
 SEEPAGE PIT VOLUME = 8FT DIAMETER  
 = 50.24 SF\*4FT = 200.96 CF  
 STONE VOLUME =  $\frac{\pi}{4}(12.5'-8.5')^2 \times 3 + \frac{\pi}{4}(12.5' \times 2')^2 \times 0.4 = 226$  CF  
 TOTAL STORAGE VOLUME = 200.96 + 226 = 426.96 CF  
 GALLON OF STORAGE 3186 GAL

FOOTINGS OR CONCRETE BUILDINGS MEMBERS LOWER THAN THE BOTTOM OF THE BASIN.

CONTRACTORS IS RESPONSIBLE FOR METHODS AND MEANS OF CONSTRUCTION.

THE RETENTION BASIN SHALL BE COLLECTING ONLY THE ROOF DRAINS.

THE OPENING FOR THE PROPOSED SADDLE INTO THE EXISTING MAIN SHALL BE DRILLED AND CUT.

PERC TEST 7" PER HOUR ON 10/16/2021

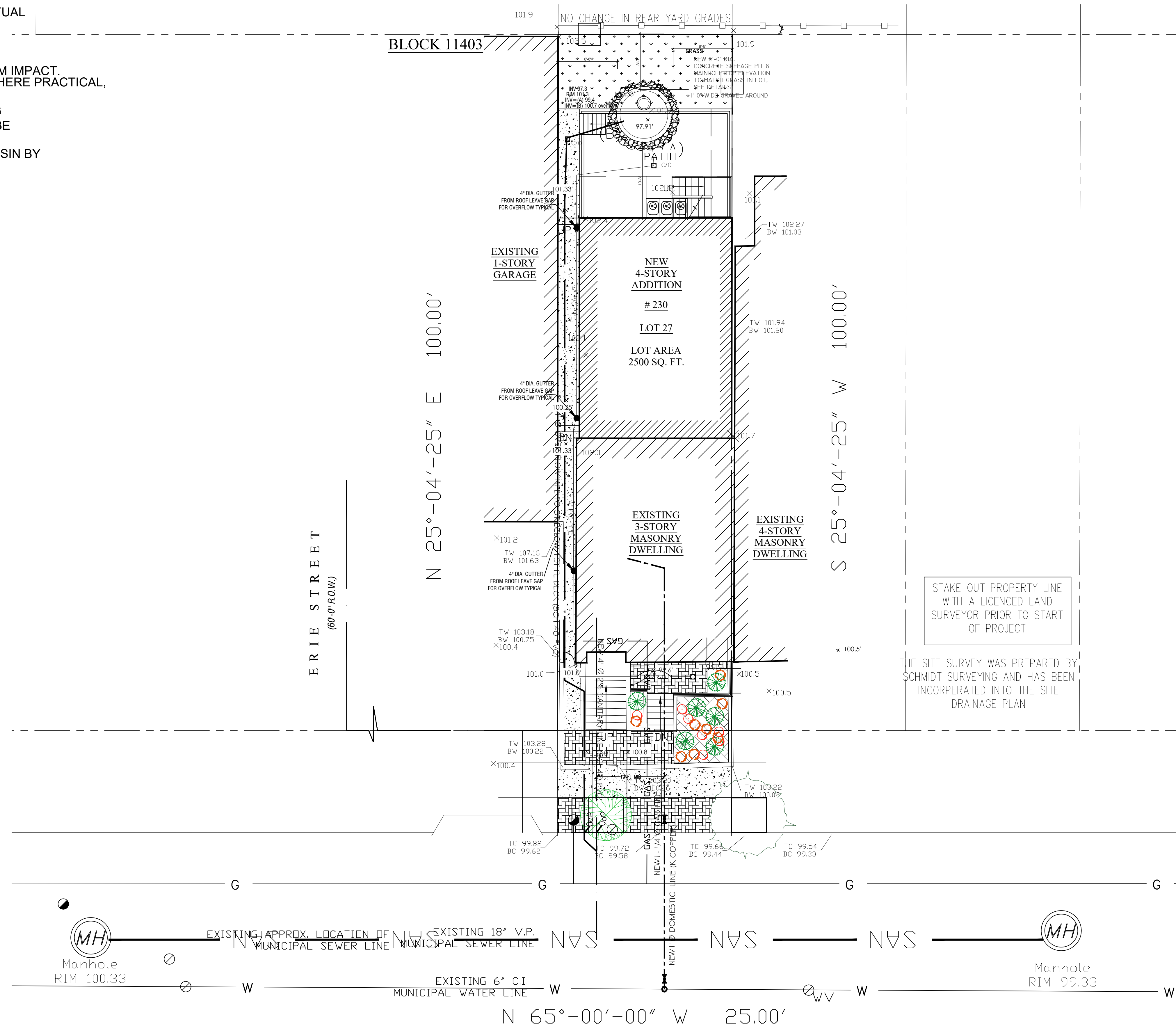
THE SITE WILL DRAIN AT 38HOURS FOR A 10 YEAR STORM EVENT

## OPERATIONAL & MAINTENANCE PLAN

- I. MAINTENANCE RECORDS MUST BE KEPT ON-SITE FOR A PERIOD OF THREE YEARS BY THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM. THESE RECORDS SHALL BE MADE AVAILABLE TO THE AUTHORITY WITHIN 72 HOURS UPON THE AUTHORITY'S REQUEST TO REVIEW THESE RECORDS.
- II. THE AUTHORITY RESERVES THE RIGHT TO INSPECT ALL STORMWATER MANAGEMENT SYSTEMS. THE OWNER OF THE STORMWATER MANAGEMENT SYSTEM SHALL PROVIDE ACCESS FOR INSPECTION TO THE AUTHORITY WITHIN 72 HOURS OF THE AUTHORITY'S REQUEST TO INSPECT THE STORMWATER MANAGEMENT SYSTEMS.
- III. FAILURE TO MAINTAIN ADEQUATE MAINTENANCE RECORDS, PERFORM MAINTENANCE, AND/OR DENY THE AUTHORITY ACCESS TO MAINTENANCE RECORDS OR INSPECTION WITHOUT CAUSE IS SUBJECT TO FINES BY THE AUTHORITY AS DETAILED IN THE SEWER CONNECTION: APPLICATION PROCEDURES AND FEE SCHEDULE DOCUMENT.



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## PROPOSED DRAINAGE CIVIL PLAN

REVISIONS:	NO.	DATE	DESCRIPTION

PROJECT LOCATION:  
 230 BAY ST  
 JERSEY CITY, NJ  
 BLOCK: 11403  
 LOT: 27

PROJECT DESCRIPTION:  
 PROPOSED DETENTION PLAN  
 FOR NEW EXTENSION BUILDING

SEAL:

DR. GUY LAGOMARSINO, P.E.  
 PROJECT MANAGER  
 LICENSE NO. 246204034

SCALE:  
 1/8" = 1'-0"

DATE:  
 OCT 2021

C-101  
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