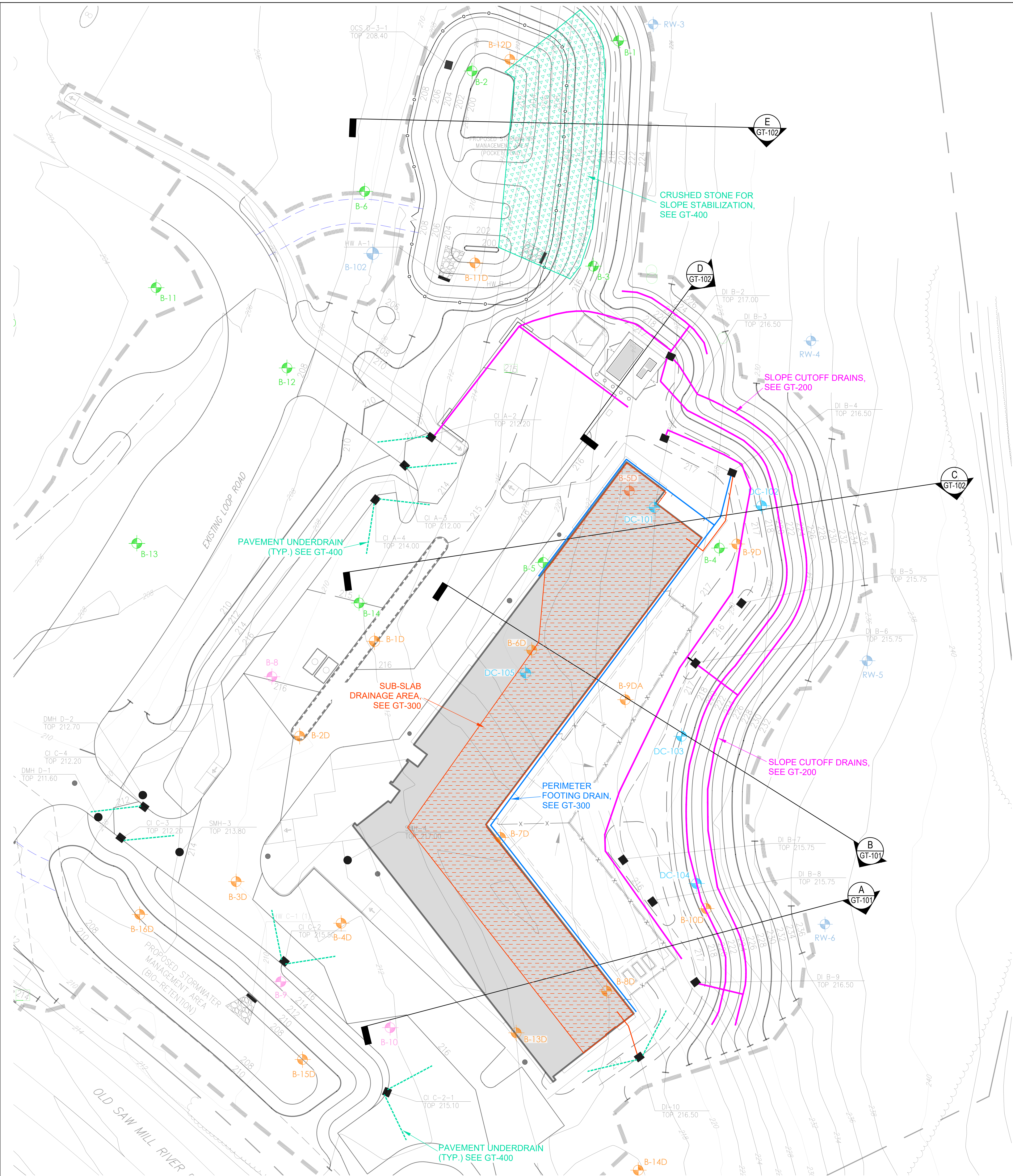


FILE: BIM 360/1006.3608.000 - Regeneron, Day Care Facility Tarrytown/Architecture - 06.3608.000 - TTX Daycare - v2020.rvt PLOTTED ON: 07.01.2022



GENERAL NOTES:

- GENERAL LAYOUT WAS OBTAINED FROM A DRAWING PREPARED BY JMC, PLLC., DATED 05/12/2022, ENTITLED "GRADING PLAN".
- REFER TO THE REPORT ON SUBSURFACE SOIL AND FOUNDATION INVESTIGATION BY CARLIN-SIMPSON & ASSOCIATES LLC DATED 20 APRIL 2022 FOR BORING LOGS.
- ALL BORING LOCATIONS ARE APPROXIMATE.
- CROSS-SECTIONS ARE SHOWN ON SHEETS GT-101 AND GT-102. ALL BEDROCK AND GROUNDWATER ELEVATIONS ON THE CROSS-SECTIONS ARE APPROXIMATE.

LIST OF DRAWINGS

GT-100	OVERALL DRAINAGE PLAN
GT-101	CROSS-SECTIONS A & B
GT-102	CROSS SECTIONS C, D, & E
GT-200	SLOPE DRAINAGE PLAN
GT-300	BUILDING DRAINAGE PLAN
GT-400	PAVEMENT DRAINS & POND DRAINAGE BLANKET

LEGEND:

- BORING AND/OR WELL LOCATION PERFORMED IN DECEMBER 2021 (DC-100 SERIES)
- BORING LOCATION PERFORMED IN MARCH 2021 (BD SERIES)
- BORING LOCATION PERFORMED IN FEB 2020 (B-1 THRU B-14)
- BORING LOCATION PERFORMED IN MARCH 2016 (B-5 THRU B-10)
- BORING LOCATION PERFORMED IN 2011 (B-101, B-102, AND RW-3 TO RW-6)

**REGENERON**  
REAL ESTATE &  
FACILITIES MANAGEMENT

777 Old Saw Mill River Road  
Tarrytown, NY 10591-6707  
T: 914.847.7400  
F: 914.847.7991  
www.regeneron.com

**Building #17**  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

**Gensler**

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone  
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-1022 Fax

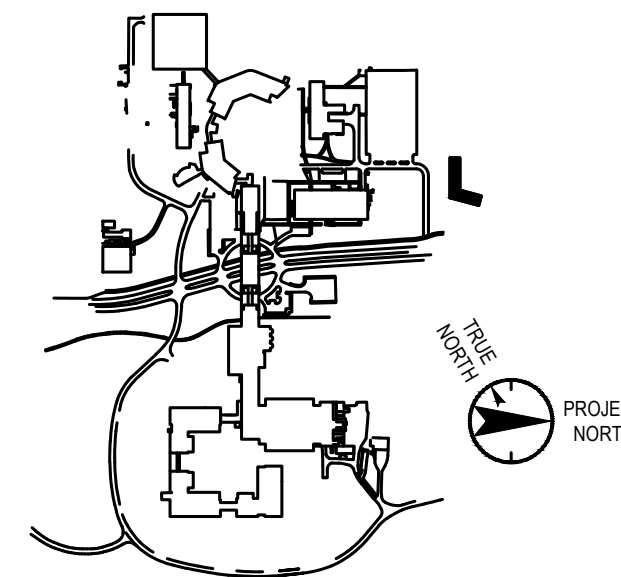
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax

Geotechnical Engineer

Carlin-Simpson & Associates, LLC  
61 Main Street  
Sayreville, NJ 08872  
(732) 432-5757 Phone  
(732) 432-5717 Fax

Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEAR HEREIN BE INCORPORATED INTO ANY OTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS. A REGENERON PHARMACEUTICALS OR ANY SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL. REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH PAGE.

Professional Seal and Signature

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 2209, SUBSECTION 2.

Vendor Name: Carlin-Simpson & Associates, LLC  
Vendor Project No.: 20-156  
Discipline: Geotechnical Drawn By: MRA

**OVERALL DRAINAGE PLAN**

Scale: 1" = 20' Floor:

**GT-100**



Building #17  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

# Gensler

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

**Cosentini Associates**  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-2102 Fax

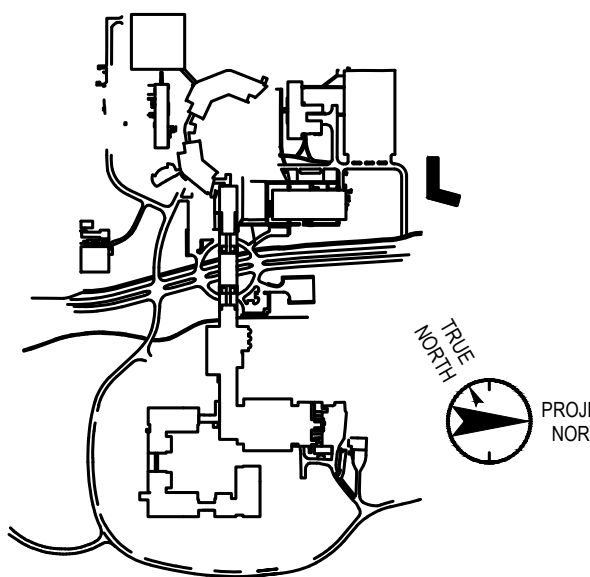
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax

Geotechnical Engineer

Carlín-Simpson & Associates, LLC  
61 Main Street  
Sayreville, NJ 08872  
(732) 432-5757 Phone  
(732) 432-5717 Fax

### Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.202

ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COMPLETE DRAWING AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING THEREIN, BE INCORPORATED INTO ANOTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS TO ANY REGENERON SALES OR AUTHORIZED REPRESENTATIVE. ANY SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH REUSE.

Professional Seal and Signature

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2

Vendor Name: Carlin-Simpson & Associates LLC  
Vendor Project No.: 20-166  
Discipline: Geotechnical      Drawn By: MRA

## CROSS-SECTIONS A & B

Scale: 1" = 10'      Floor





777 Old Saw Mill River Road  
Tarrytown, NY 10591-6707  
T: 914.847.7400  
F: 914.847.7991  
[www.regeneron.com](http://www.regeneron.com)

Building #17  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

# Gensler

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone  
(212) 492-1472 Fax

---

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-2102 Fax

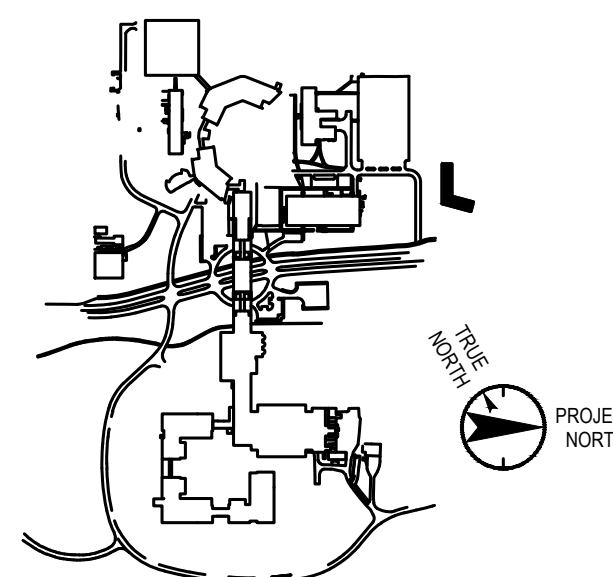
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax

Geotechnical Engineer

Carlin-Simpson & Associates, LLC  
61 Main Street  
Sayreville, NJ 08872  
(732) 432-5757 Phone  
(732) 432-5717 Fax

### Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING THEREIN, BE INCORPORATED INTO ANOTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS. IF REGENERON MAKES OR AUTHORIZES REUSE OF ANY SUCH DOCUMENTS OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH REUSE.

Professional Seal and Signature

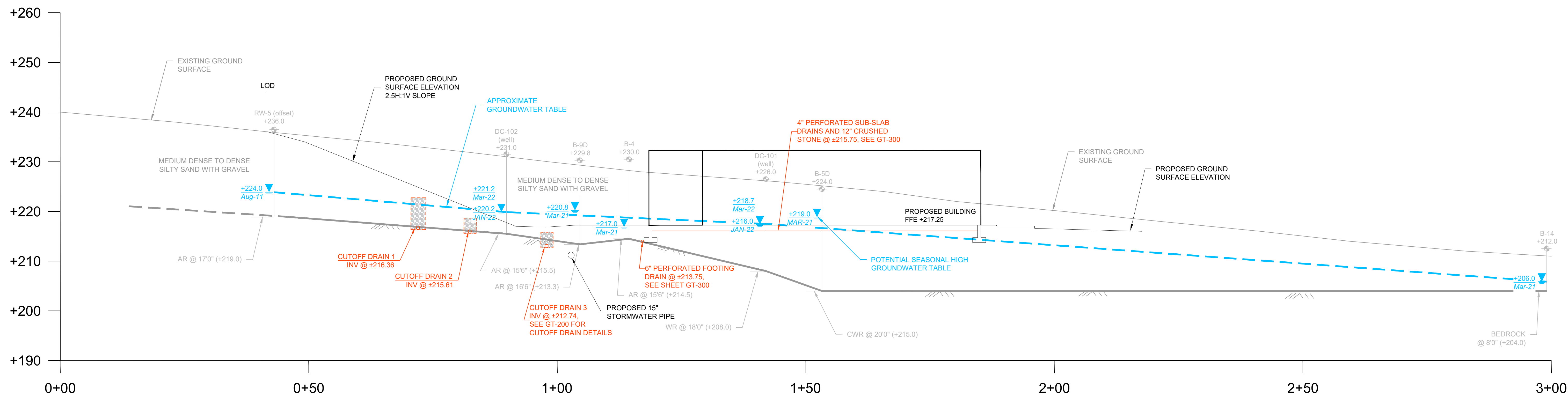
ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Vendor Name: Carlin-Simpson & Associates LLC  
Vendor Project No.: 20-166  
Discipline: Geotechnical      Drawn By: MRA

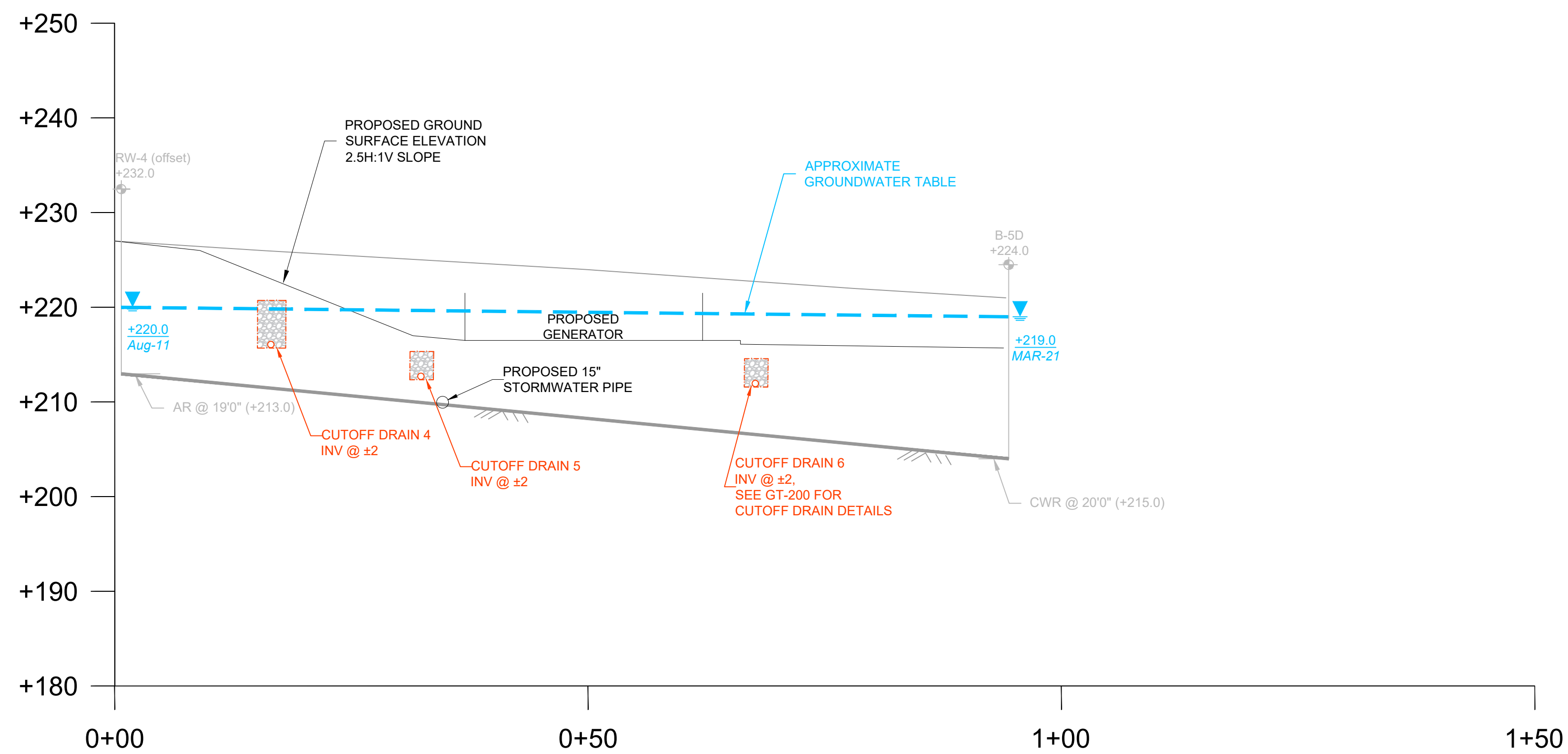
## CROSS-SECTIONS C, D, & E

Scale: 1" = 10'      Floor:

# GT-102

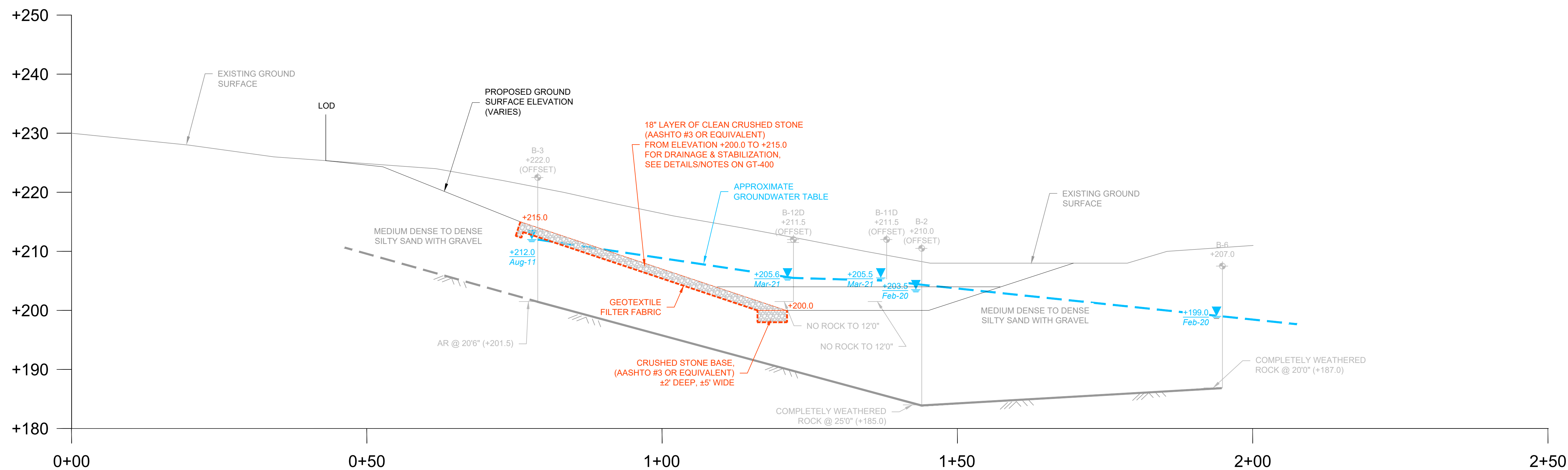


CROSS-SECTION "C"  
SCALE: 1" = 10'



CROSS-SECTION "D"

SCALE: 1" = 10'



**CROSS-SECTION "E"**  
SCALE: 1" = 10'







BUILDING DRAINAGE LOCATION PLAN  
SCALE: 1" = 15'

## BUILDING DRAINAGE NOTES

### A. GENERAL NOTES

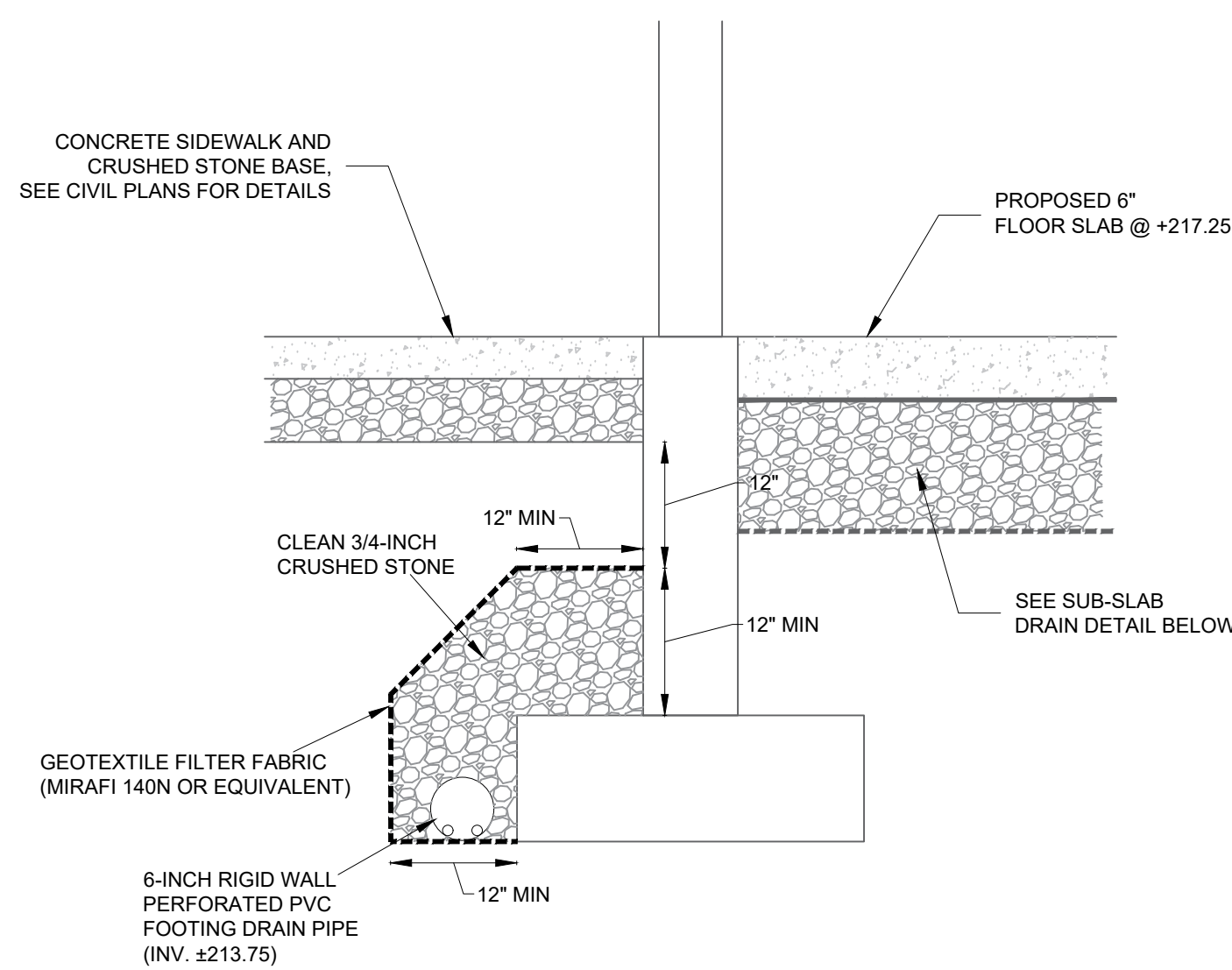
1. GENERAL LAYOUT FOR THE BUILDING DRAINAGE PLANS WAS OBTAINED FROM DRAWINGS THAT WERE PREPARED BY BR+A CONSULTING ENGINEERS PC AND THORNTON TOMASETTI, WHICH INCLUDE THE FOLLOWING:
  - GROUND FLOOR PLAN (S-100)
  - PLUMBING UNDERGROUND PLAN (P-100)
2. CONTRACTOR SHALL REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ALL FOUNDATION, FLOOR SLAB, WATERPROOFING, AND VAPOR BARRIER DETAILS. CONTRACTOR SHALL REFER TO MEP DRAWINGS FOR ALL SUB-SLAB PIPE DETAILS AND DISCHARGE DETAILS. CONTRACTOR SHALL REFER TO CIVIL DRAWINGS FOR GRADING, EXTERIOR UTILITIES, AND STORMWATER STRUCTURE DETAILS.
3. CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION DRAWINGS, SHOP DRAWINGS, AND SPECIFICATIONS ON SITE AT ALL TIMES DURING CONSTRUCTION.
4. ALL OF THE WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND CITY CODES, REGULATIONS, AND REQUIREMENTS. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CONSTRUCTION SUBMITTALS (MINIMUM) TO CARLIN-SIMPSON & ASSOCIATES LLC AND THE OWNER'S REPRESENTATIVE: 1) MATERIALS TO BE USED IN THE BUILDING DRAINAGE SYSTEM; 2) DAMP PROOFING AND WATERPROOFING MATERIALS AND INSTALLATION PROCEDURES; AND 3) DETAILS REGARDING BACKWATER CHECK VALVES. WORK SHALL NOT BEGIN UNTIL THE APPROPRIATE SUBMITTALS HAVE BEEN RECEIVED, REVIEWED, AND ACCEPTED IN WRITING BY THE ENGINEER.

B. FOOTING PERIMETER DRAIN

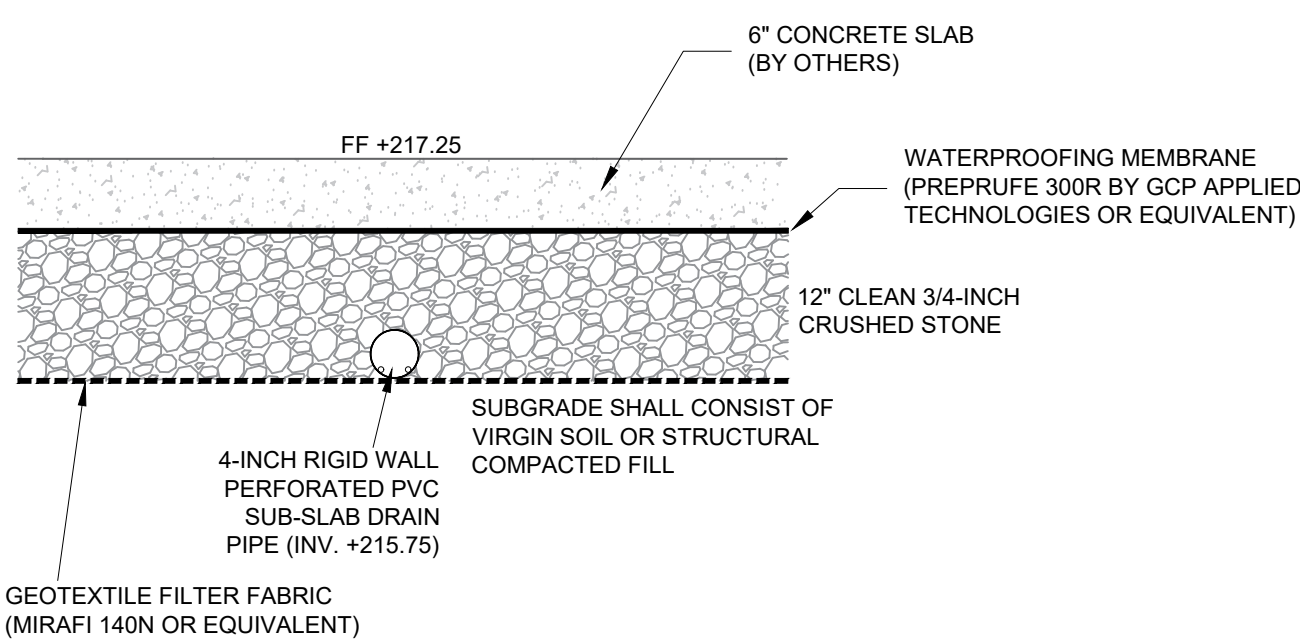
1. A PERIMETER DRAIN OR FOOTING DRAIN, CONSISTING OF A SIX (6) INCH DIAMETER PERFORATED PVC PIPE WITH HOLES FACING DOWN, SHALL BE INSTALLED AROUND THE OUTSIDE PERIMETER OF THE BUILDING AS SHOWN ON THIS PLAN TO PREVENT WATER FROM ACCUMULATING AGAINST THE FOUNDATION WALLS.
2. THE PIPE SHALL CONSIST OF SDR-26 OR SCHEDULE 40 PVC.
3. DAMP PROOFING IS REQUIRED FOR THE FOUNDATION WALLS WHERE THE PERIMETER DRAIN IS INSTALLED. CONTRACTOR TO SUBMIT DAMP PROOFING MATERIALS AND PROCEDURES FOR REVIEW AND APPROVAL.
4. THE FOOTING DRAIN PIPE SHALL BE SURROUNDED BY A MINIMUM OF 12 INCHES OF CLEAN 3/4-INCH CRUSHED STONE THAT IS WRAPPED IN A GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) AND EXTENDS TO APPROXIMATELY 12 INCHES BELOW THE SIDEWALK SUBGRADE ELEVATION. REFER TO THE TYPICAL FOOTING DRAIN DETAIL FOR MORE INFORMATION.
5. THE FOOTING DRAIN PIPE SHALL BE PIPED INTO STORMWATER STRUCTURE DI B-4 AS INDICATED ON THIS PLAN. REFER TO THE CIVIL DRAWINGS FOR STRUCTURE DETAILS. A BACKWATER CHECK VALVE IS REQUIRED FOR THE DISCHARGE LOCATION. THE BACKWATER CHECK VALVE TYPE IS TO BE SELECTED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL BY THE MEP ENGINEER AND GEOTECHNICAL ENGINEER.

### C. SUB-SLAB DRAINAGE SYSTEM

1. SUB-SLAB WATERPROOFING IS REQUIRED FOR THE ENTIRE BUILDING. THE WATERPROOFING MEMBRANE SHALL CONSIST OF PREPURFE 300R BY GCP APPLIED TECHNOLOGIES OR AN ENGINEER-APPROVED EQUIVALENT
2. THE SUB-SLAB DRAINAGE SYSTEM SHALL CONSIST OF DRAIN LINES AS SHOWN ON THE BUILDING DRAINAGE PLAN. THE DRAINPIPIES SHALL CONSIST OF FOUR (4) INCH DIAMETER RIGID WALL PERFORATED PVC PIPES WITH HOLES FACING DOWN, PLACED AT THE BOTTOM OF 12 INCHES OF CLEAN 3/4-INCH CRUSHED STONE GRAVEL. THIS CORRELATES TO A PIPE INVERT ELEVATION OF APPROXIMATELY +215.75. REFER TO THE TYPICAL SUB-SLAB DRAIN DETAIL FOR MORE INFORMATION.
3. THE PIPE SHALL CONSIST OF SDR-26 OR SCHEDULE 40 PVC.
4. A LAYER OF GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE SUBGRADE SOIL AND THE CRUSHED STONE TO PREVENT SOIL FROM CLOGGING THE PIPES. THE EDGES OF THE FILTER FABRIC SHALL BE FOLDED ON TOP OF THE CRUSHED STONE FILL. THE SUBGRADE SHALL BE GRADED ("PITCHED") TOWARDS THE UNDERDRAIN. ADJACENT FILTER FABRIC PANELS SHALL OVERLAP BY A MINIMUM OF 12 INCHES.
5. THE SUB-SLAB DRAINS WILL CROSS THE NEW SHEAR WALLS AT SEVERAL LOCATIONS. SLEEVES WILL BE REQUIRED DURING SHEAR WALL CONSTRUCTION TO ALLOW FUTURE INSTALLATION OF THE DRAINAGE PIPES. REFER TO THE STRUCTURAL PLANS FOR PENETRATION DETAILS.
6. THE PERFORATED PVC DRAINPIPIES SHALL CONNECT TO FOUR (4) INCH DIAMETER RIGID WALL SOLID PVC PIPES THAT DISCHARGE TO STORMWATER STRUCTURE D1-4 OF THE NORTHEAST CORNER OF THE BUILDING AND TO STRUCTURE D1-10 OFF THE SOUTHEAST SIDE OF THE BUILDING. SLEEVES THROUGH THE EXTERIOR WALLS WILL BE REQUIRED FOR THE DISCHARGE PIPES.
7. BACKWATER CHECK VALVES ARE REQUIRED FOR BOTH DISCHARGE LOCATIONS. THE BACKWATER CHECK VALVE LOCATION AND TYPE ARE TO BE SELECTED BY THE CONTRACTOR AND SUBMITTED FOR APPROVAL BY THE MEP ENGINEER AND GEOTECHNICAL ENGINEER.
8. DRAIN PIPE LOCATIONS MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH SUB-SLAB STRUCTURES AND UTILITIES PROVIDED THAT THE MINIMUM SPACING IS MAINTAINED AND THAT THE LOCATIONS ARE APPROVED BY THE GEOTECHNICAL ENGINEER.
9. D. QUALITY ASSURANCE AND INSPECTION
1. THE OWNER SHALL RETAIN, AT THEIR COST, CARLIN-SIMPSON & ASSOCIATES LLC TO PERFORM QUALITY ASSURANCE INSPECTION AND MONITORING SERVICES RELATED TO THE INSTALLATION OF BUILDING DRAINAGE SYSTEM.
2. CONTRACTOR SHALL ARRANGE FOR AND SCHEDULE ALL REQUIRED INSPECTIONS.
3. THE ABOVE FIELD INSPECTION AND MONITORING WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET THE MORE STRINGENT OF THE CONSTRUCTION DRAWINGS, MANUFACTURER'S REQUIREMENTS, AND THE PROJECT SPECIFICATIONS.
4. CONTRACTOR SHALL TAKE PROMPT ACTION TO PREVENT OR CORRECT ANY CONDITIONS WHICH HAVE RESULTED OR COULD RESULT IN THE SUBMITTAL TO ENGINEER OF ITEMS OR SERVICES WHICH DO NOT CONFORM TO THE QUALITY PERFORMANCE OF THE CONTRACT. THE TESTS SPECIFIED IN THE CONTRACT AND OTHER TESTS AS MAY BE REQUIRED TO SUBSTANTIATE CONFORMANCE.



TYP. FOOTING DRAIN DETAIL  
3/4" = 1'-0"



TYP. SUB-SLAB DRAIN DETAIL  
3/4" = 1'-0"

777 Old Saw Mill River Road  
Tarrytown, NY 10591-6707  
T: 914.847.7400  
F: 914.847.7991  
[www.regeneron.com](http://www.regeneron.com)

Building #17  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

# Gensler

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone  
(212) 492-1472 Fax

---

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates

498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC  
120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-2102 Fax

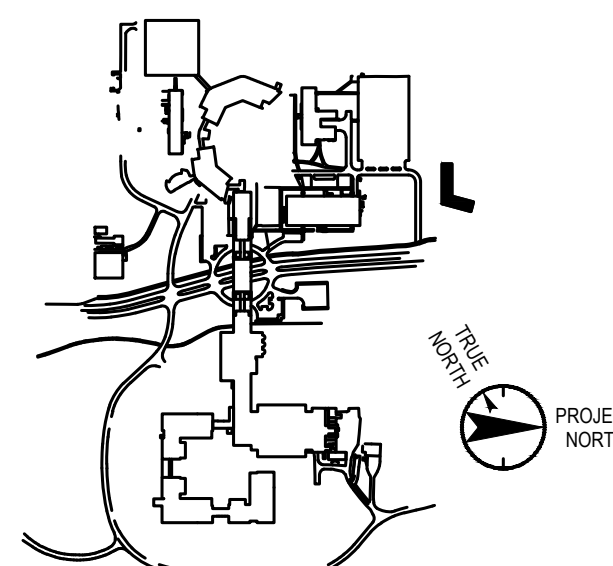
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax

Geotechnical Engineer

Carlin-Simpson & Associates, LLC  
61 Main Street  
Sayreville, NJ 08872  
(732) 432-5757 Phone  
(732) 432-5717 Fax

### Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

**Plot Date: 07/01/2022**

ALL DRAWINGS AND WRITTEN MATERIALS HERENTHON ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERATION PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING THEREIN BE REPRODUCED INTO ANOTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERATION PHARMACEUTICALS. THIS SHEET IS BEING RETURNED UPON THE REQUEST OF REGENERATION PHARMACEUTICALS. IF REGENERATION MAKES OR AUTHORIZES REUSE OF ANY SUCH DOCUMENTS OR INFORMATION PROVIDED IN DESIGN OR PROFESSIONAL SERVICE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, DESIGN PROFESSIONAL ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH REUSE.

Professional Seal and Signature

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 7209, SUBSECTION 2.

Vendor Name: Carlin-Simpson & Associates LLC  
Vendor Project No.: 20-166  
Discipline: Geotechnical      Drawn By: MRA

# BUILDING DRAINAGE PLAN

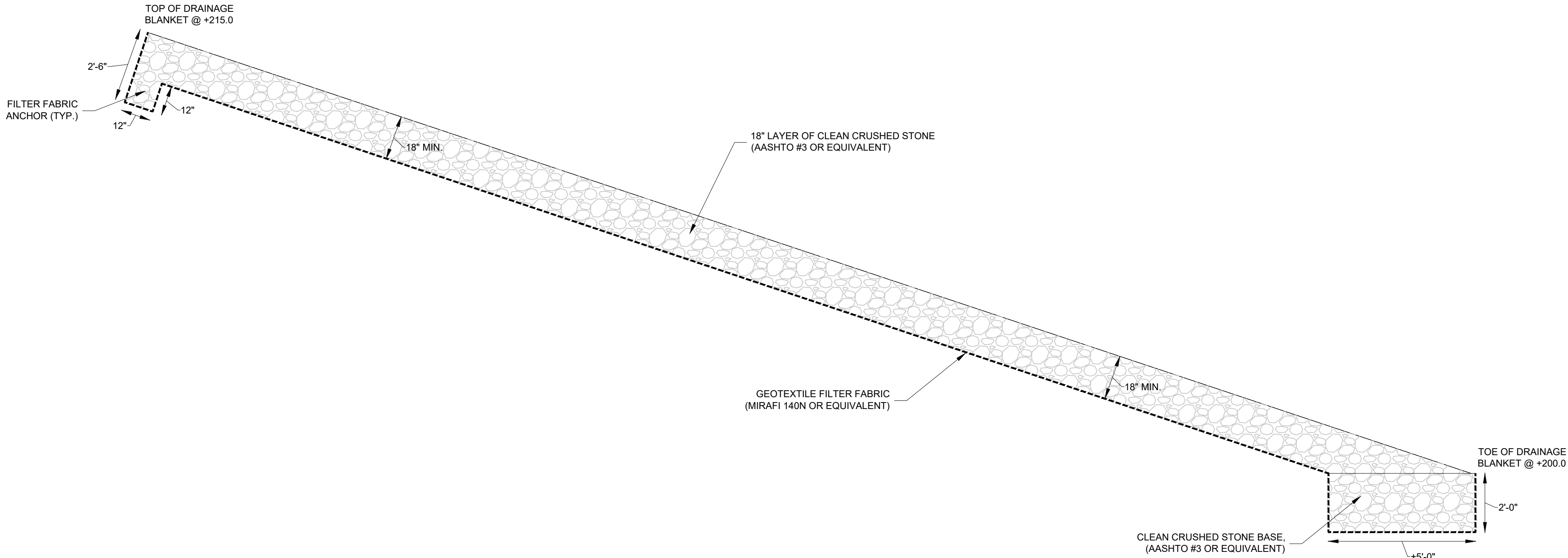
Scale: AS SHOWN Floor:

# GT-300





POND DRAINAGE BLANKET LOCATION PLAN  
SCALE: 1" = 15'



POND DRAINAGE BLANKET DETAIL  
3/8" = 1'-0"

PAVEMENT DRAIN AND POND DRAINAGE BLANKET NOTES

A. GENERAL NOTES

- GENERAL LAYOUT FOR THE DRAINAGE PLANS WAS OBTAINED FROM DRAWINGS THAT WERE PREPARED BY JMC PLLC, WHICH INCLUDE THE FOLLOWING:
  - GRADING PLAN (C-200)
  - UTILITIES PLAN (C-300)
- CONTRACTOR SHALL REFER TO CIVIL DRAWINGS FOR GRADING, EXTERIOR UTILITIES, AND STORMWATER STRUCTURE DETAILS.
- CONTRACTOR SHALL HAVE AN APPROVED SET OF CONSTRUCTION DRAWINGS, SHOP DRAWINGS, AND SPECIFICATIONS ON SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL OF THE WORK SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND CITY CODES, REGULATIONS, AND REQUIREMENTS. IN CASE OF CONFLICT, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CONSTRUCTION SUBMITTALS (MINIMUM) TO CARLIN-SIMPSON & ASSOCIATES LLC AND THE OWNER'S REPRESENTATIVE: 1) A DETAILED DESCRIPTION OF THE PROPOSED CONSTRUCTION PROCEDURE, INCLUDING EXCAVATION SEQUENCE AND TECHNIQUES; 2) A DEWATERING PLAN AND THE TEMPORARY DISCHARGE LOCATION(S); 3) SHOP DRAWINGS FOR SUPPORT OF EXCAVATION (SOE) AND/OR DEWATERING SYSTEMS, IF APPLICABLE; AND 4) MATERIALS TO BE USED IN THE SLOPE DRAINAGE AND STABILIZATION SYSTEM. WORK SHALL NOT BEGIN UNTIL THE APPROPRIATE SUBMITTALS HAVE BEEN RECEIVED, REVIEWED, AND ACCEPTED IN WRITING BY THE ENGINEER.

B. POND DRAINAGE BLANKET

- THE DRAINAGE BLANKET SHALL CONSIST OF 18-INCHES OF CLEAN CRUSHED STONE INSTALLED FROM ELEVATION +200.0 TO ELEVATION +215.0 TO THE HORIZONTAL LIMITS SHOWN ON THE DRAINAGE BLANKET LOCATION PLAN.
- A CRUSHED STONE BASE SHALL ALSO BE CONSTRUCTED AT THE TOE OF THE SLOPE AS SHOWN ON THE DRAINAGE BLANKET DETAIL.
- THE CLEAN CRUSHED STONE FOR THE DRAINAGE BLANKET AND THE BASE SHALL MEET AASHTO #3 OR EQUIVALENT. A TYPICAL GRADATION IS AS FOLLOWS:

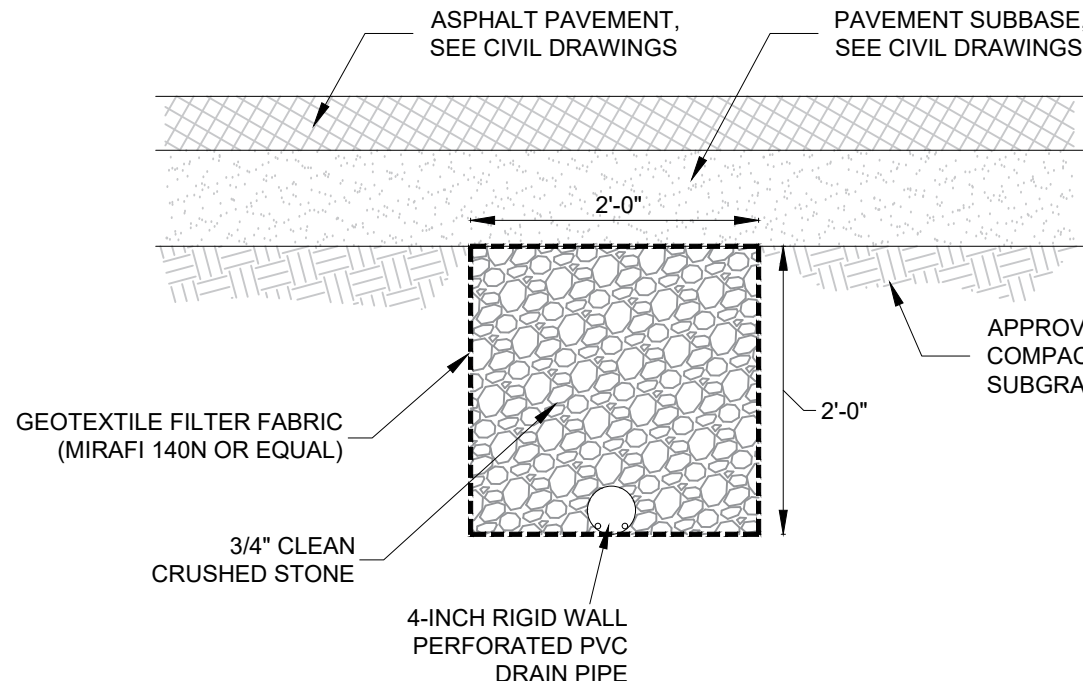
SIZE	% PASSING
2.5-INCH	100
2.0-INCH	90-100
1.5-INCH	35-70
1.0-INCH	0-15
0.5-INCH	0-5
- A LAYER OF GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE SUBGRADE SOIL AND THE CRUSHED STONE TO PREVENT SOIL MIGRATION INTO THE CRUSHED STONE. ADJACENT FILTER FABRIC PANELS SHALL OVERLAP BY A MINIMUM OF 12 INCHES.
- THE GEOTEXTILE FILTER FABRIC SHALL BE ANCHORED AT THE TOP OF THE DRAINAGE BLANKET AS SHOWN IN THE DRAINAGE BLANKET DETAIL.

C. PAVEMENT UNDERDRAINS

- PAVEMENT UNDERDRAINS (AKA FINGER DRAINS) SHALL BE INSTALLED AT SELECT STORMWATER STRUCTURES AS SHOWN ON THE OVERALL DRAINAGE PLAN (GT-100).
- EACH UNDERDRAIN PIPE SHALL EXTEND A MINIMUM OF 25 FEET FROM THE STRUCTURE.
- THE DRAINPIES SHALL CONSIST OF FOUR (4) INCH DIAMETER RIGID WALL PERFORATED PVC PIPES WITH HOLES FACING DOWN, PLACED AT THE BOTTOM OF 24 INCHES OF 3/4-INCH CLEAN CRUSHED STONE GRAVEL.
- THE PIPE SHALL CONSIST OF SCHEDULE 40 PVC.
- A LAYER OF GEOTEXTILE FILTER FABRIC (MIRAFI 140N OR EQUIVALENT) SHALL BE PLACED BETWEEN THE SUBGRADE SOIL AND THE CRUSHED STONE TO PREVENT SOIL FROM CLOGGING THE PIPES. THE EDGES OF THE FILTER FABRIC SHALL BE FOLDED ON TOP OF THE CRUSHED STONE FILL. ADJACENT FILTER FABRIC PANELS SHALL OVERLAP BY A MINIMUM OF 12 INCHES.
- REFER TO THE TYPICAL PAVEMENT DRAIN DETAIL FOR MORE INFORMATION.
- PAVEMENT UNDERDRAIN PIPE LOCATIONS MAY BE FIELD ADJUSTED TO AVOID CONFLICTS WITH OTHER UTILITIES AND STRUCTURES PROVIDED THAT THE LOCATIONS ARE APPROVED BY THE GEOTECHNICAL ENGINEER.

D. QUALITY ASSURANCE AND INSPECTION

- THE OWNER SHALL RETAIN, AT THEIR COST, CARLIN-SIMPSON & ASSOCIATES LLC TO PERFORM QUALITY ASSURANCE INSPECTION AND MONITORING SERVICES RELATED TO THE INSTALLATION OF PAVEMENT UNDERDRAINS, THE BLANKET DRAINAGE SYSTEM, AND THE CONSTRUCTION OF THE SOIL SLOPES.
- CONTRACTOR SHALL ARRANGE FOR AND SCHEDULE ALL REQUIRED INSPECTIONS.
- THE ABOVE FIELD INSPECTION AND MONITORING WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET THE MORE STRINGENT OF THE CONSTRUCTION DRAWINGS, MANUFACTURER'S REQUIREMENTS, AND THE PROJECT SPECIFICATIONS.
- CONTRACTOR SHALL TAKE PROMPT ACTION TO PREVENT OR CORRECT ANY CONDITIONS WHICH HAVE RESULTED OR COULD RESULT IN THE SUBMITTAL TO ENGINEER OF ITEMS OR SERVICES WHICH DO NOT CONFORM TO THE QUALITY PERFORMANCE OF THE CONTRACT, THE TESTS SPECIFIED IN THE CONTRACT AND OTHER TESTS AS MAY BE REQUIRED TO SUBSTANTIATE CONFORMANCE.



TYP. PAVEMENT UNDERDRAIN DETAIL  
3/4" = 1'-0"

777 Old Saw Mill River Road  
Tarrytown, NY 10591-6707  
T: 914.847.7400  
F: 914.847.7991  
www.regeneron.com

Building #17  
Campus Expansion Child  
Day-care Center

899 Old Saw Mill River Road  
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

Architect

**Gensler**

1700 Broadway, Suite 400  
New York, NY 10019  
(212) 492-1400 Phone  
(212) 492-1472 Fax

Structural Engineer

Thornton Tomasetti  
120 Broadway, 15th Floor  
New York, NY 10271  
(917) 661-7800 Phone  
(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates  
498 Seventh Avenue  
New York, NY 10018  
(212) 615-3600 Phone  
(212) 615-3700 Fax

Civil Engineer

JMC

120 Bedford Road  
Armonk, NY 10504  
(914) 273-5225 Phone  
(914) 273-102 Fax

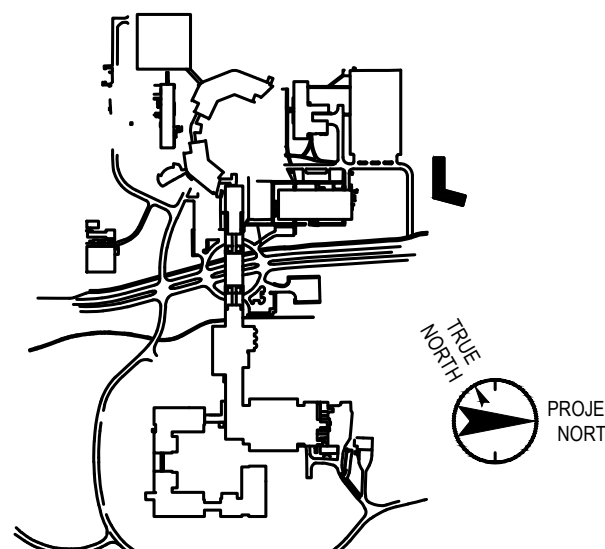
Landscape Architect

Langan  
21 Penn Plaza, 360 West 31st Street, 8th Floor  
New York, NY 10001  
(212) 479-5400 Phone  
(212) 479-5444 Fax

Geotechnical Engineer

Carlin-Simpson & Associates, LLC  
61 Main Street  
Sayreville, NJ 08872  
(732) 432-5757 Phone  
(732) 432-5717 Fax

Key Plan



No.	Date	Description
0	05.13.2022	100% CONSTRUCTION DOCUMENTS
0	05.20.2022	ISSUED FOR PERMIT
1	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

ALL DRAWINGS AND WRITTEN MATERIALS REPRESENTED ON THIS SHEET CONSTITUTE THE COPYRIGHTED WORK AND ARE THE SOLE PROPERTY OF REGENERON PHARMACEUTICALS. THIS SHEET MAY NOT BE REPRODUCED OR COPIED IN WHOLE OR IN PART, NOR MAY ANY OF THE DRAWINGS OR WRITTEN MATERIALS APPEARING HEREON BE INCORPORATED INTO ANY OTHER WORK FOR ANY REASON WITHOUT THE WRITTEN CONSENT OF REGENERON PHARMACEUTICALS. THIS SHEET MUST BE RETURNED UPON THE REQUEST OF REGENERON PHARMACEUTICALS. A REGENERON MARK OR AUTHORIZED REUSE OF ANY SUCH DOCUMENT OR INFORMATION PRODUCED BY DESIGN PROFESSIONAL OUTSIDE OF THE PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF DESIGN PROFESSIONAL, REGENERON ASSUMES FULL RESPONSIBILITY FOR ANY AND ALL RISKS INVOLVED IN SUCH REUSE.

Professional Seal and Signature

ANY ALTERATION OF PLANS, SPECIFICATIONS, PLATS AND REPORTS BEARING THE SEAL OF A LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR IS A VIOLATION OF SECTION 2209 OF THE NEW YORK STATE EDUCATION LAW, EXCEPT AS PROVIDED FOR BY SECTION 2209, SUBSECTION 2.

Vendor Name: Carlin-Simpson & Associates LLC  
Vendor Project No.: 20-166  
Discipline: Geotechnical Drawn By: MRA

PAVEMENT DRAINS &  
POND DRAIN BLANKET

Scale: AS SHOWN Floor:

GT-400