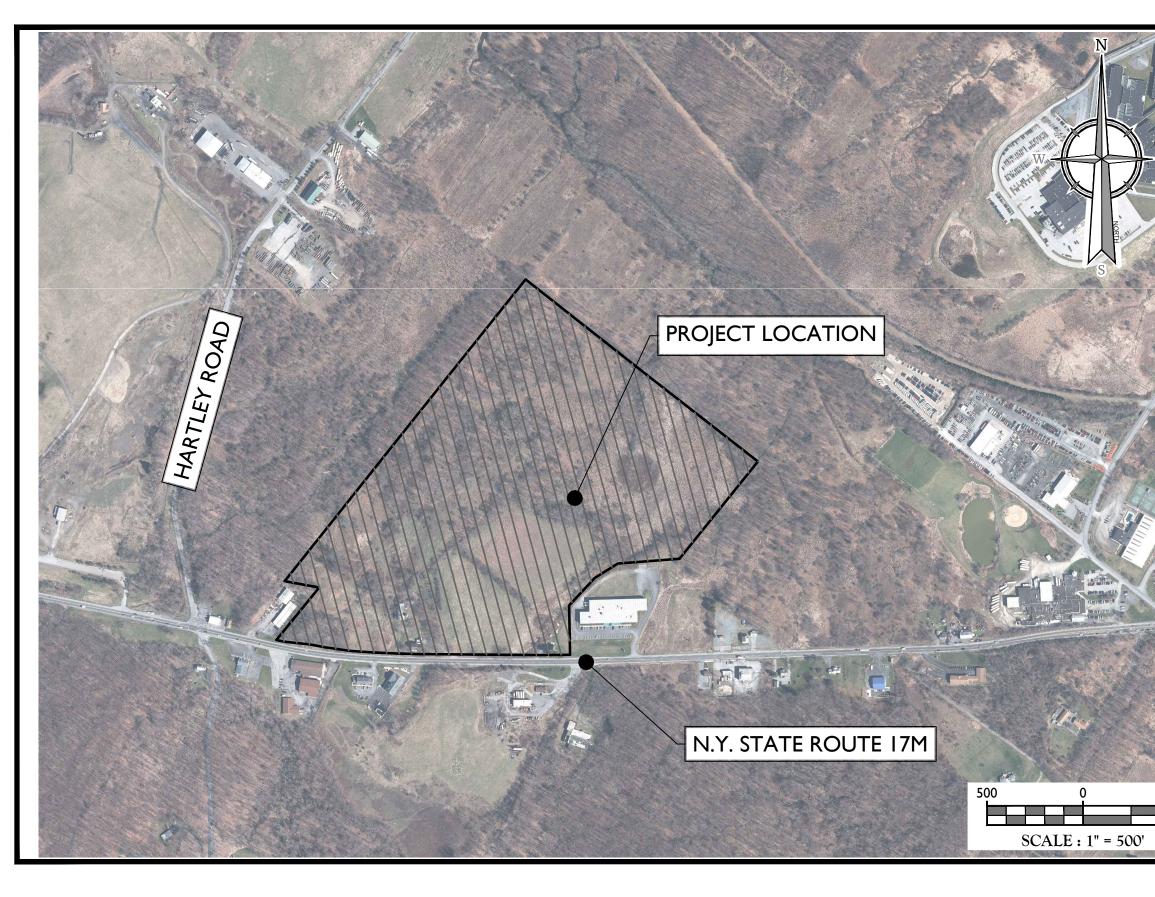
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| SHT. No.   | DESCRIPT                             | ION               | LATEST REVISION          |
| I  | COVER SHEET                          |                   | 10/14/2022               |
| 2  | EXISTING CONDITIONS & DEMOLITION     | N PLAN            | 10/14/2022               |
| 3  | OVERALL SITE PLAN                    |                   | 10/14/2022               |
| 4-5  | DIMENSION PLAN                       |                   | 10/14/2022               |
| 6-7  | GRADING & DRAINAGE PLAN              |                   | 10/14/2022               |
| 8  | UTILITY PLAN                         |                   | 10/14/2022               |
| 9-12   | PHASED EROSION & SEDIMENT CONTR      | OL PLAN & DETAILS | 10/14/2022               |
| 13-14  | LANDSCAPE PLAN                       |                   | 10/14/2022               |
| 15-16  | LIGHTING PLAN                        |                   | 10/14/2022               |
| 17   | SITE DETAILS                         |                   | 10/14/2022               |
| 18-19  | STORMWATER DETAILS                   |                   | 10/14/2022               |
|  |                                      |                   |                          |
| 20   | WATER DETAILS                        |                   | 10/14/2022               |
| 13-14<br>15-16<br>17<br>18-19<br>20<br>21<br>21<br>22  | WATER DETAILS<br>SEWER DETAILS       |                   | 10/14/2022<br>10/14/2022 |

# FOR 2602 RT 17 DEVELOPERS, LLC 2598-2602 N.Y. STATE ROUTE 17M SECTION 12, BLOCK 1, LOT 116 TOWN OF GOSHEN ORANGE COUNTY, NEW YORK STATE

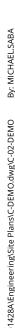


LOCATION MAP SOURCE: NEW YORK STATE CLEARINGHOUSE SCALE: 1'=500'

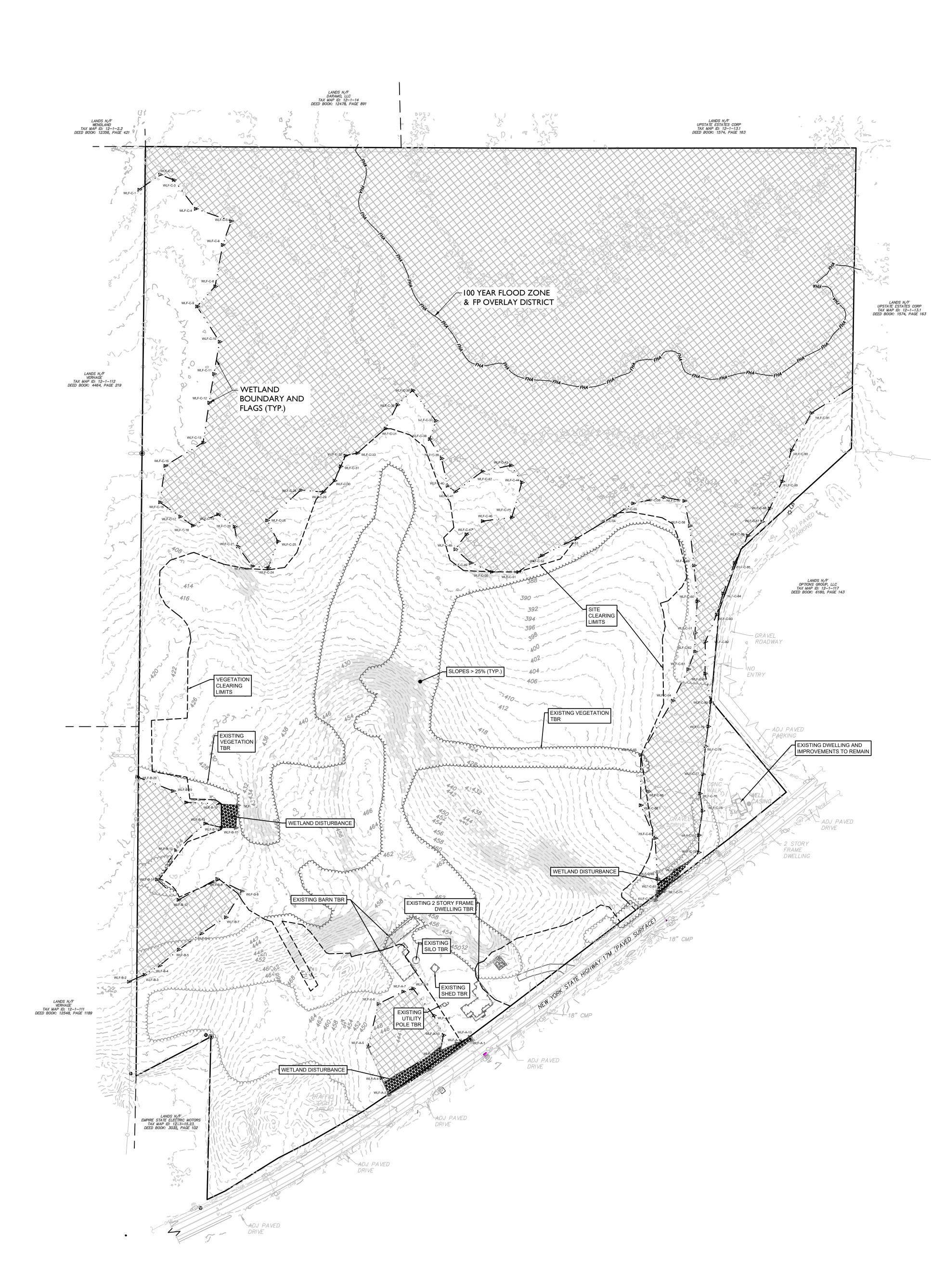
|          | GENERAL INFORMATION   |
|----------|---|
| ١.       | THE SUBJECT PROPERTY IS KNOWN AS SECTION 12, BLOCK 1, LOT 116 IN THE TOWN OF<br>GOSHEN, ORANGE COUNTY, NEW YORK   |
|          | THE PROPERTY IS LOCATED IN THE CO (COMMERCIAL/OFFICE MIXED-USE) ZONE DISTRICT<br>AND CONTAINS A TOTAL TRACT AREA OF 2,656,966 SF, 60.99 ACRES.<br>DWNER/ APPLICANT :  |
|          | 2602 RT 17 DEVELOPERS LLC<br>27 PHILLIPS PARKWAY<br>MONTVALE, NJ 07645  |
| 3.       | BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS TAKEN FROM A PLAN<br>ENTITLED "BOUNDARY SURVEY WITH TOPOGRAPHIC MAPPING" FOR RDM GROUP 2600<br>ROUTE 17M AND PREPARED BY ENGINEERING & SURVEYING PROPERTIES DATED 09/12/18   |
| 4.       | THE HORIZONTAL DATUM IS RELATIVE TO NAD83. THE VERTICAL DATUM IS RELATIVE TO N.A.V.D. 1988.   |
| 5.       | 100 YEAR FLOOD PLAINS ARE KNOWN TO EXIST ON THE SITE PER THE FLOOD INSURANCE<br>RATE MAPS 36071C0288E DATED 08/03/2009 PREPARED BY THE FEDERAL EMERGENCY<br>MANAGEMENT AGENCY.  |
| 6.       | GEOTECHNICAL INFORMATION AND SOIL TEST PIT LOCATIONS SHOWN HEREON ARE AS<br>PRESENTED IN A REPORT ENTITLED "GEOTECHNICAL DATA REPORT", DATED: SEPTEMBER 17,<br>2020, PREPARED BY MASER CONSULTING.  |
| 7.       | THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A<br>CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF<br>ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO<br>EXPLORATORY OR TESTING SERVICES, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE<br>ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF THE POTENTIAL FOR<br>CHEMICAL, TOXIC, RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE<br>PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE<br>EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE<br>DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING<br>WITH ALL APPLICABLE LAWS AND REGULATIONS.   |
|          | THIS IS A SITE DEVELOPMENT PLAN AND UNLESS SPECIFICALLY NOTED ELSEWHERE HEREON, IS<br>NOT A SURVEY.<br>DO NOT SCALE DRAWINGS AS THEY PERTAIN TO ADJACENT AND SURROUNDING PHYSICAL   |
|          | CONDITIONS, BUILDINGS, STRUCTURES, ETC. THEY ARE SCHEMATIC ONLY, EXCEPT WHERE<br>DIMENSIONS ARE SHOWN THERETO.  |
| 10       | REVIEW AND APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCTION<br>DOCUMENTS UNTIL ALL APPROVALS REQUIRED HAVE BEEN OBTAINED, ALL CONDITIONS OF<br>APPROVAL HAVE BEEN SATISFIED AND THE DRAWINGS HAVE BEEN STAMPED "ISSUED FOR<br>CONSTRUCTION". THIS SHALL INCLUDE APPROVAL OF ALL CATALOG CUTS, SHOP<br>DRAWINGS AND/OR DESIGN CALCULATIONS AS REQUIRED BY THE PROJECT OWNER<br>AND/OR MUNICIPAL ENGINEER.   |
|          | . THE CONTRACTOR IS RESPONSIBLE FOR PROJECT SAFETY, INCLUDING PROVISION OF ALL<br>APPROPRIATE SAFETY DEVICES AND TRAINING REQUIRED.   |
|          | PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CALL 811 TO REQUEST A UTILITY<br>MARKOUT.<br>INFORMATION HEREON INCORPORATES THE CONTENT IN THE FOLLOWING REPORTS:  |
|          | <ul> <li>A. "TRAFFIC IMPACT STUDY" PREPARED FOR 2602 RT 17 DEVELOPER, LLC AND PREPARED BY<br/>COLLIERS ENGINEERING &amp; DESIGN, DATE 1/18/2021, REVISED OCTOBER 12, 2022.</li> <li>B. "GEOTECHNICAL DATA REPORT" PREPARED FOR 2602 ROUTE 17M AND PREPARED BY<br/>COLLIERS ENGINEERING &amp; DESIGN, DATE 9/17/2020.</li> <li>C. "NOISE IMPACT STUDY" PREPARED FOR 2602 RT 17 DEVELOPER, LLC AND PREPARED BY<br/>COLLIERS ENGINEERING &amp; DESIGN, DATE 0420, REVISED JULY 29, 2022.</li> <li>D. "STORM WATER PREVENTION PLAN" PREPARED FOR 2602 RT 17 DEVELOPER, LLC PREPARED<br/>PX COLLIERS ENGINEERING &amp; DESIGN, DATED 0500 RT 17 DEVELOPER, LLC PREPARED</li> </ul>   |
| <u>S</u> | BY COLLIERS ENGINEERING & DESIGN, DATED OCTOBER 14, 2022.   |
| Ι.       | BUILDING FOOTPRINT DIMENSIONS SHOWN HEREON ARE APPROXIMATE. FINAL BUILDING<br>FOOTPRINT DIMENSIONS FOR THE BUILDING SHALL BE FURNISHED ON THE ARCHITECTURAL<br>PLAN AT THE TIME OF APPLICATION FOR A BUILDING PERMIT. ALL STRUCTURES SHALL<br>CONFORM TO THE APPROVED BULK ZONING REQUIREMENTS.   |
| 2.       | CURBS SHALL BE DEPRESSED FLUSH WITH PAVEMENT, AND HANDICAP ACCESSIBLE RAMPS<br>INSTALLED WHERE SIDEWALKS AND CROSSWALKS INTERSECT SAME. DETECTABLE<br>WARNINGS SHALL BE INCLUDED ON HANDICAP ACCESSIBLE RAMPS.  |
| 3.       | TRAFFIC SIGNAGE AND STRIPING SHALL CORRESPOND TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.   |
| 4.       | REFUSE AND RECYCLABLES SHALL BE STORED WITHIN THE OUTSIDE ROLL-OFF TRASH<br>RECEPTACLE AS NOTED ON THE PLANS, AND PICKED UP BY PRIVATE WASTE DISPOSAL<br>HAULER.  |
| 5.       | THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE MATERIALS IN ACCORDANCE WITH GOVERNING REGULATIONS AND AGENCIES.   |
| 6.       | THERE SHALL BE NO ON-SITE BURIAL OF CONSTRUCTION MATERIALS, TREE BRANCHES,<br>STUMPS, OR OTHER DELETERIOUS MATERIALS.   |
| 7.       | MATERIALS, WORKMANSHIP, AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN<br>HEREON SHALL BE IN ACCORDANCE WITH:   |
|          | <ul> <li>A. NEW YORK STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", 2020; AS SUPPLEMENTED.</li> <li>B. CURRENT PREVAILING MUNICIPAL, COUNTY, AND/OR STATE AGENCY SPECIFICATIONS, STANDARDS, CONDITIONS, AND REQUIREMENTS.</li> <li>C. CURRENT PREVAILING UTILITY COMPANY/AUTHORITY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.</li> <li>D. CURRENT MANUFACTURER SPECIFICATIONS, STANDARDS, AND REQUIREMENTS.</li> </ul>   |
| 8.       | THE WAREHOUSE ROOF MUST BE DESIGNED IN ACCORDANCE WITH THE LATEST NYS<br>BUILDING & ENERGY CODES TO SUPPORT THE INSTALLATION OF FUTURE SOLAR PANELS   |
| -        |   |
| 1.       | EXISTING UTILITY INFORMATION SHOWN HEREON HAS BEEN COLLECTED FROM VARIOUS<br>SOURCES AND IS NOT GUARANTEED AS TO ACCURACY OR COMPLETENESS. THE<br>CONTRACTOR SHALL VERIFY ALL INFORMATION TO HIS SATISFACTION PRIOR TO<br>EXCAVATION. WHERE EXISTING UTILITIES ARE TO BE CROSSED BY PROPOSED<br>CONSTRUCTIONS, TEST PITS SHALL BE DUG BY THE CONTRACTOR PRIOR TO<br>CONSTRUCTION TO ASCERTAIN EXISTING INVERTS, MATERIALS, AND SIZES. TEST PIT<br>INFORMATION SHALL BE GIVEN TO THE ENGINEER PRIOR TO CONSTRUCTION TO PERMIT<br>ADJUSTMENTS AS REQUIRED TO AVOID CONFLICTS. THE CONTRACTOR SHALL NOTIFY THE<br>UNDER SIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED<br>DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON. SUCH CONDITIONS COULD<br>RENDER THE DESIGNS HEREON INAPPROPRIATE OR INEFFECTIVE. |
| 2.       | UTILITY RELOCATIONS SHOWN HEREON, IF ANY, ARE FOR INFORMATIONAL PURPOSES ONLY<br>AND MAY NOT REPRESENT ALL REQUIRED UTILITY RELOCATIONS. THE CONTRACTOR IS<br>RESPONSIBLE FOR PERFORMING AND/OR COORDINATING ALL REQUIRED UTILITY<br>RELOCATIONS IN COOPERATION WITH THE RESPECTIVE UTILITY COMPANY/AUTHORITIES.  |
| 3.       | STORM SEWERS SHALL BE CLASS III (OR HIGHER IF NOTED) REINFORCED CONCRETE PIPE (RCP)<br>WITH "O" RING GASKETS OR INTERNALLY PRELUBRICATED GASKET (TYLOX SUPERSEAL OR<br>EQUIVALENT, ADS N-12 HIGH DENSITY POLYETHYLENE PIPE (HDPEP), AS NOTED ON THE<br>PLAN, OR APPROVED EQUAL. PROPER PIPE COVERAGE SHALL BE MAINTAINED DURING ALL<br>PHASES OF CONSTRUCTION. PIPE LENGTHS SHOWN HEREON ARE FROM CENTER OF<br>STRUCTURE TO CENTER OF STRUCTURE.  |
| 4.       | WATER SERVICE TO BE PROVIDED FROM THE PROPOSED ON-SITE WELL. PROPOSED WATER<br>MAIN AND FIRE HYDRANT LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL.<br>PIPE MATERIALS SHALL BE CEMENT LINED DUCTILE IRON PIPE, CLASS 52, WITH ASPHALTIC<br>EPOXY TYPE COATING OR HIGH DENSITY POLYETHYLENE (HDPE) SDR-11 PIPE AS NOTED ON<br>THE PLANS. WATER MAINS SHALL BE INSTALLED TO PROVIDE A MINIMUM 4.5 FEET OF COVER<br>FROM THE TOP OF PIPE TO THE PROPOSED GRADE.   |
| 5.       | SANITARY SEWER SERVICE SHALL BE PROVIDED BY GRAVITY & FORCE MAIN CONNECTION TO<br>THE PROPOSED ON-SITE SUBSURFACE SEWAGE DISPOSAL SYSTEM. PROPOSED SEWER MAIN<br>AND MANHOLE LOCATIONS ARE SUBJECT TO MUNICIPAL REVIEW AND APPROVAL. PIPE<br>MATERIALS SHALL BE PVC SDR-35, EXCEPT AS NOTED OTHERWISE ON THE PLANS. EXCEPT<br>WHERE SHALLOWER DEPTHS ARE PERMITTED BY THE MUNICIPALITY OR UTILITY AUTHORITY,<br>SEWER LINES, INCLUDING FORCE MAINS AND LATERALS, SHALL BE INSTALLED TO PROVIDE A<br>MINIMUM 4.5 FEET OF COVER FROM THE TOP OF PIPE TO PROPOSED GRADE.   |
| 6.       | ALL WATER MAINS SHOULD BE SEPARATED FROM SANITARY SEWER AND INDUSTRIAL<br>DISCHARGE LINES BY A MINIMUM HORIZONTAL DISTANCE OF 10 FEET. IF SUCH HORIZONTAL<br>SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE<br>TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST<br>18 INCHES BELOW THE BOTTOM OF THE WATER MAIN ENCASED IN CONCRETE OR WITH<br>SUCH SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT OF HEALTH.   |
| 7.       | AT THE CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES<br>SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE<br>LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT   |
| 8.       | POSSIBLE, THE WATER LINE SHALL BE ENCASED IN CONCRETE.<br>GAS, ELECTRIC, LIGHTING, CABLE TELEVISION, AND ELECTRICAL SERVICE PLANS, IF REQUIRED,<br>SHALL BE PREPARED BY THE RESPECTIVE UTILITY COMPANIES THAT SERVICE THE AREA PRIOR<br>TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE OR LOCAL UTILITY  |
| 9.       | TO SITE CONSTRUCTION AND SHALL BE INSTALLED PER ORDINANCE OR LOCAL UTILITY<br>COMPANIES REQUIREMENTS.<br>TELEPHONE, ELECTRIC, AND GAS LINES WILL BE INSTALLED UNDERGROUND. CROSSINGS OF   |

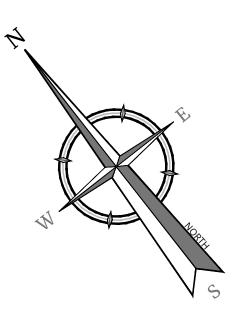
PROPOSED PAVEMENTS WILL BE INSTALLED PRIOR TO THE CONSTRUCTION OF PAVEMENT BASE COURSE. THESE GENERAL NOTES SHALL APPLY TO ALL SHEETS IN THIS SET.

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| ŕ                    | 3Y DESCRIPTION                          |   |  |   |   |  |                                     |                                      |                               |                               |                                |
| ED                   | TE DRAWN BY                             |   |  |   |   |  |                                     |                                      |                               |                               |                                |
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|                      |   | DEIS.   |  |   |   |  |                                     |                                      |                               |                               |                                |
|                      |   | REVISED PER PLANNING BOARD & CONSULTANT COMMENTS ON DEIS. |  | MENTS.  |   |  |                                     |                                      |                               |                               |                                |
|                      |   | D & CONSULTAN1  | BMISSION.                                      | REVISED PER ZONING BOARD OF APPEALS COMMENTS.   |   |  |                                     |                                      |                               |                               |                                |
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|                      | E DRAWN BY                              | /22 SMB   | '22 CDR  | '22 SMB   | /22 MAS                                     |  |                                     |                                      |                               |                               |                                |
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| TO                   |   |   |  |   |   |  |                                     |                                      | <u> </u>                      | P.C.                          |                                |
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# **DEMOLITION NOTES:**

- NO TREE REMOVAL SHALL OCCUR FROM APRIL I TO SEPTEMBER 30, TO MITIGATE POTENTIAL IMPACTS TO BAT SPECIES.
   TREE SPECIES ON THE PERIMETER OF THE LIMIT OF DISTURBANCE (LOD) WHICH MEASURE 12-INCH DIAMETER AT BREAST HEIGHT (DBH) WILL BE IDENTIFIED & FLAGGED TO BE SAVED PRIOR TO COMMENCEMENT OF CLEARING & GRUBBING THE PROJECT SITE. THESE TREES WILL BE REVIEWED IN THE FIELD BY THE PROJECT LANDSCAPE ARCHITECT FOR CURRENT HEALTH CONDITIONS AND
- DETERMINATION OF PRESERVATION. 3. CONTRACTOR SHALL DEMOLISH THE EXISTING ON-SITE STRUCTURES (MARKED FOR REMOVAL) IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REQUIREMENTS.
- 4. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR SHALL BE REQUIRED TO CALL THE BOARD OF PUBLIC UTILITIES ONE CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARK OUT IN ADVANCE OF ANY EXCAVATION. DIG SAFELY, NEW YORK, I-800-962-7962 OR 811. A PRE-DEMOLITION CONFERENCE WILL NEED TO BE ARRANGED WITH DIG SAFELY, NEW YORK AND MUST BE HELD A MINIMUM OF 7 DAYS BEFORE THE START OF ANY DEMOLITION.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING SITE IMPROVEMENTS AND UTILITIES. ALL DISCREPANCIES SHALL BE IDENTIFIED TO THE ENGINEER IN WRITING.
- ALL DEMOLITION DEBRIS TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
  ALL DEMOLITION ACTIVITIES ARE TO BE PERFORMED IN ACCORDANCE WITH THESE PLANS, AS WELL AS ALL FEDERAL, STATE AND LOCAL REGULATIONS. ANY DISCREPANCIES OR DEVIATIONS SHALL BE IDENTIFIED BY THE CONTRACTOR TO COLLIERS
- ENGINEERING & DESIGN IN WRITING FOR RESOLUTION PRIOR TO INITIATION OF SITE ACTIVITY.8. PRIOR TO STARTING ANY DEMOLITION CONTRACTOR IS RESPONSIBLE FOR/TO:
- A. ENSURING COPIES OF ALL PERMITS AND APPROVALS MUST BE MAINTAINED ON SITE AND AVAILABLE FOR REVIEW (SEE "EROSION AND SEDIMENT CONTROL PLAN," THIS DRAWING SET).
  B. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
  C. ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER,
- TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE. THE CONTRACTOR SHALL USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
  D. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
- E. FAMILIARIZING THEMSELVES WITH THE APPLICABLE UTILITY SERVICE PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING PROVIDER AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL PROVIDE THE OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTION AND UTILITY COMPANY REQUIREMENTS.
- F. CLEAN THE EXISTING UTILITY STRUCTURES ON-SITE PRIOR TO CONSTRUCTION AND VERIFY THE INVERTS FOR CONNECTION.
   9. COLLIERS ENGINEERING & DESIGN IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR IS TO PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE O.S.H.A. REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
- 10. THE CONTRACTOR SHALL PROVIDE ALL THE "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE DEMOLITION CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN AS A RESULT OF HIS ACTIVITIES. ALL REPAIRS SHALL USE NEW MATERIAL. THE REPAIRS SHALL RESTORE THE ITEM TO THE PRE-DEMOLITION CONDITION.
- 11. ROCK EXCAVATIONS (AS APPLICABLE) WILL BE PERFORMED BY MECHANICAL MEANS ONLY. IF USE OF BLASTING IS REQUIRED FOR ROCK EXCAVATION, THE CONTRACTOR SHALL SECURE ALL THE REQUIRED PERMITS AND CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS (INCLUDING TOWN CODE CHAPTER 58A - EXPLOSIVES) SHALL BE IN PLACE PRIOR TO STARTING. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES, AS APPLICABLE.
- 12. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH: THE "MANUAL ON UNIFORM TRAFFIC CONTROL", AS WELL AS FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS OR ROADWAY RIGHTS-OF-WAY.
- 13. CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY (AS APPLICABLE).
- 14. DEMOLITION ACTIVITIES AND EQUIPMENT SHALL NOT USE AREAS OUTSIDE THE DEFINED PROPERTY LINE WITHOUT WRITTEN PERMISSION OF THE OWNER, AND/OR APPROPRIATE GOVERNMENT AGENCY.
- 15. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION OTHER THAN THAT ALL METHODS AND MEANS ARE TO BE IN ACCORDANCE WITH STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL O.S.H.A. AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
- 16. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL TOWN, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES.
- 17. DEMOLITION SHALL NOT PROCEED UNTIL THE APPROXIMATE LOCATION OF THE EXISTING UTILITIES ARE MARKED IN THE FIELD AND ALL UTILITY CONNECTIONS ARE SUITABLY SHUT OFF AND DISCONNECTED AND PROPER DEMOLITION PERMITS ARE IN PLACE WITH THE APPROPRIATE JURISDICTION.
- CONTRACTOR IS RESPONSIBLE TO RESTORE ALL DISTURBED SITE AREAS TO ORIGINAL CONDITION AS DIRECTED BY THE OWNER.
   PROTECT ALL EXISTING UTILITIES TO REMAIN (INCLUDING DRAINAGE STRUCTURES, HYDRANTS, VALVES, SEWER MANHOLES, ETC.) DURING DEMOLITION. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIMSELF OR SUB-CONTRACTORS.
- 20. SEPTIC & WELL UTILITIES:
- ALL EXISTING SEPTIC TANKS TO BE ABANDONED SHALL BE PUMPED CLEAN.
  ABANDONED SEPTIC TANKS SHALL BE REMOVED OR CRUSHED AND FILLED IN PLACE WITH CLEAN SOIL.
  EFFLUENT PIPES FROM ABANDONED SEPTIC TANKS SHALL BE REMOVED.
- WEIR BOXES AND DISTRIBUTION BOXES SHALL BE REMOVED OR CRUSHED AND FILLED WITH CLEAN SOIL.
  EXISTING WELL(S) SHALL BE ABANDONED IN ACCORDANCE WITH AWWA STANDARDS.

WATER SERVICE LINES FROM WELL TO BUILDINGS SHALL BE REMOVED.

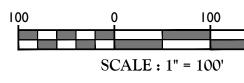
COMPLYING WITH ALL APPLICABLE LAW AND REGULATIONS.

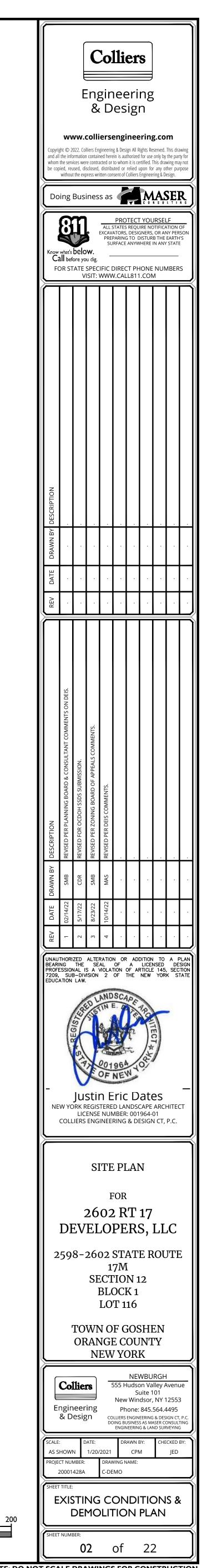
21. THIS SET OF PLANS IS NOT DEPICTING ENVIRONMENTAL CONDITIONS OR A CERTIFICATION/WARRANTY REGARDING THE PRESENCE OR ABSENCE OF ENVIRONMENTALLY IMPACTED SITE CONDITIONS. MASER CONSULTING HAS PERFORMED NO EXPLORATORY OR TESTING SERVICE, INTERPRETATIONS, CONCLUSIONS OR OTHER SITE ENVIRONMENTAL SERVICES RELATED TO THE DETERMINATION OF POTENTIAL FOR CHEMICAL, TOXIC, OR RADIOACTIVE OR OTHER TYPE OF CONTAMINANTS AFFECTING THE PROPERTY AND THE UNDERSIGNED PROFESSIONAL IS NOT QUALIFIED TO DETERMINE THE EXISTENCE OF SAME. SHOULD ENVIRONMENTAL CONTAMINATION OR WASTE BE DISCOVERED, THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR

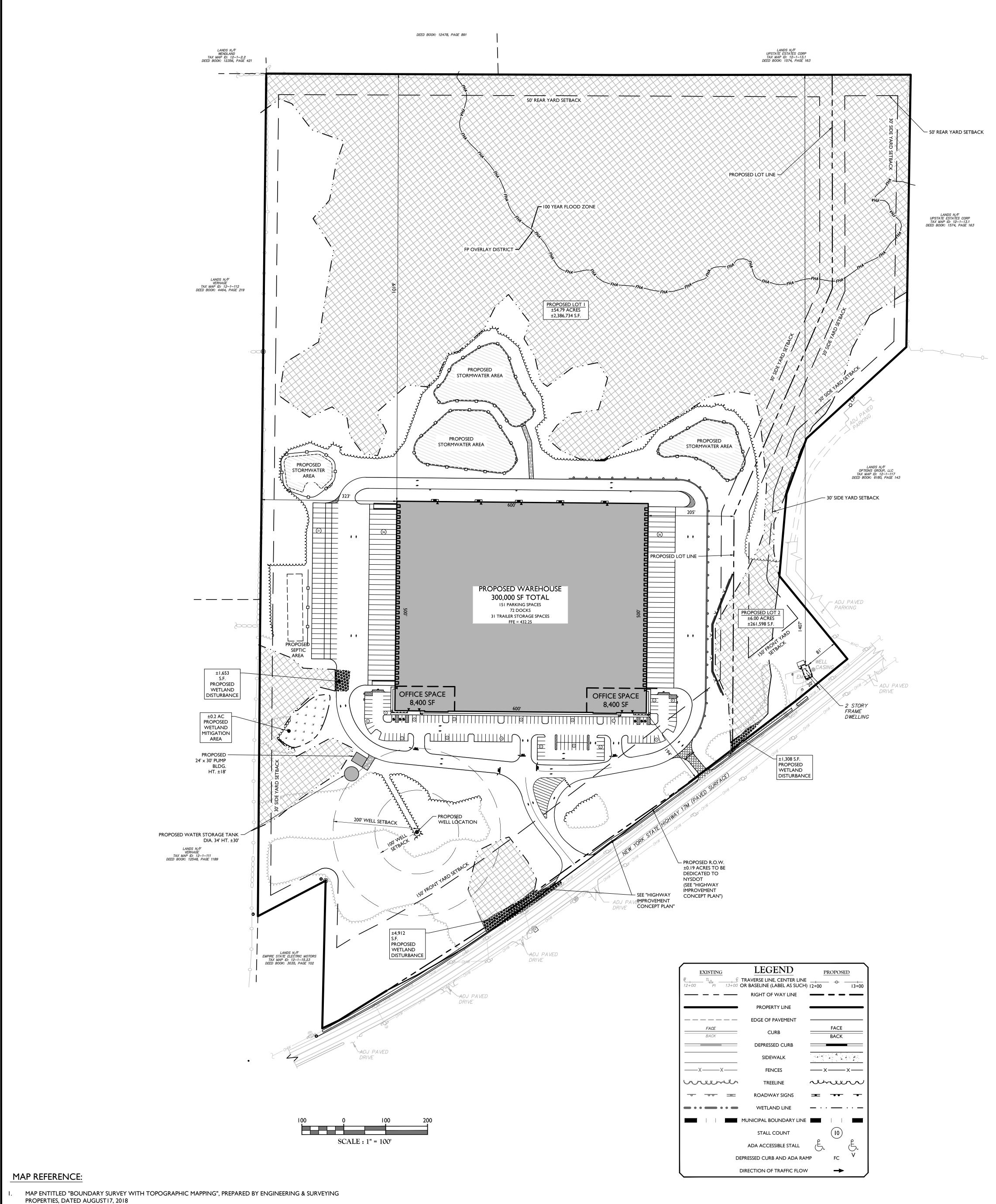
### DRAWING LEGEND

| PROPERTY BOUNDARY   |          |                                  |        |
|---|----------|----------------------------------|--------|
| EDGE OF ASPHALT   |          |                                  |        |
| EXISTING CURB   |          |                                  |        |
| DEPRESSED CURB  |          |                                  |        |
| PAVEMENT STRIPING   |          |                                  |        |
| OVERHEAD WIRES  | —_онw    | — он w —                         | ОН₩    |
| WATERLINE MARKOUT   | W        | W                                | W      |
| EASEMENTS   |          |                                  |        |
| MAJOR CONTOUR   |          |                                  |        |
| MINOR CONTOUR   |          |                                  |        |
| SANITARY PIPES  |          |                                  |        |
| STORMWATER PIPES  |          |                                  |        |
| TREEROW / HEDGE   | 00000    | 00000                            |        |
| TREELINE  | $\sim$   | $\gamma\gamma\gamma\gamma\gamma$ | $\sim$ |
| BOUNDARY EVIDENCE   | ٠        |                                  |        |
| SIGN  |          |                                  |        |
| POST / BOLLARD  | 0        |                                  |        |
| UTILITY POLE  | ¢        |                                  |        |
| GUY WIRE  |          |                                  |        |
| LIGHT POLE  | *        |                                  |        |
| ROOF LEADER / OPEN ROOF DE  | RAIN DRL | / ORD                            |        |
| TREE PROTECTION FENCING   | 0        |                                  |        |
| SANITARY MANHOLE  | S        |                                  |        |
| SANITARY CLEANOUT   | 0        |                                  |        |
| DRAINAGE MANHOLE  | Ø        |                                  |        |
| CATCH BASIN   |          |                                  |        |
| TBR = TO BE REMOVED<br>UTP = UTILITY POLE<br>DI = DRAIN INLET<br>CB = CATCH BASIN<br>GR. = GRATE<br>CO = CLEANOUT |          |                                  |        |
| WETLANDS  |          |                                  |        |
| CLEARING LINE   |          |                                  |        |
| SLOPES > 25%  |          |                                  |        |
|   |          |                                  |        |

EXISTING WETLANDS: TOTAL AREA: 1,206,966 S.F. / 27.7 ACRES









# BULK TABLE

ZONING DISTRICT: CO - COMMERCIAL/OFFICE MIXED-USE PROPERTY IS LOCATED IN THE FLOOD PLAIN & PONDING AREA OVERLAY DISTRICT (FP)

LOT I PROPOSED USE: WAREHOUSE (USE PERMITTED BY RIGHT) LOT 2 EXISTING USE: SINGLE-FAMILY DWELLING (USE PERMITTED BY SPECIAL PERMIT ISSUED BY PLANNING BOARD)

| MINIMUM                           | REQUIRED     | PROPOSED LOT I | REMARKS           | PROPOSED LOT 2 | REMARKS                        |
|-----------------------------------|--------------|----------------|-------------------|----------------|--------------------------------|
| LOT AREA                          | I ACRE       | ±54.79 ACRES   | ОК                | ±6.00 ACRES    | ОК                             |
| FRONT YARD (STATE ROAD)           | 150'         | 194'           | ОК                | 20'            | PRE-EXISTING,<br>NONCONFORMING |
| SIDE YARD                         | 30'          | 205'           | ОК                | 81'            | ОК                             |
| REAR YARD                         | 50'          | 1,019'         | ОК                | 1,407'         | ОК                             |
| ROAD FRONTAGE                     | 200'         | 1,194'         | ОК                | 340'           | ОК                             |
| OPEN / UNDEVELOPED GREEN<br>SPACE | 30%          | 75.5%          | ОК                | 99%            | ОК                             |
| MAXIMUM                           |              |                |                   |                |                                |
| IMPERVIOUS COVERAGE               | 70%          | 48%            | ОК                | 1%             | ОК                             |
| BUILDING FOOTPRINT                | 200,000 S.F. | 300,000 S.F    | VARIANCE REQUIRED | 823 S.F.       | ОК                             |
| BUILDING HEIGHT                   | 35'          | 48'            | VARIANCE REQUIRED | <35'           | ОК                             |

# OWNER/APPLICANT : 2602 RT 17 DEVELOPERS, LLC. 21 PHILLIPS PARKWAY MONTVALE, NJ 07645

SECTION 12, BLOCK 1, LOT 116

### TAX LOT:

+/- 2,656,966 S.Q.F.T.

+/- 60.99 ACRES

# EXISTING LOT AREA:

# ZONING VARIANCES REQUIRED:

• ZONING CODE § 95-14(A) MAXIMUM BUILDING HEIGHT IN THE CO ZONING DISTRICT IS 35 FEET. PROPOSED - 48 FEET

# AREA VARIANCE REQUESTED - 13 FEET

- ZONING CODE § 97-14(D)(6) "THE MINIMUM DISTANCE BETWEEN CURB CUTS SHALL BE 600 FEET, UNLESS THE CONFIGURATION OF A PARCEL IN RELATION TO ADJOINING PARCELS MAKES THIS REQUIREMENT IMPOSSIBLE TO SATISFY
- PROPOSED -I) MAIN ENTRANCE TO GATED EMERGENCY ACCESS: 375 FEET. NOTE: WE ARE REQUESTING AN INTERPRETATION THAT 2) MAIN ENTRANCE TO EXISTING RESIDENTIAL DRIVEWAY: 645 FEET. THE PROJECT DOES NOT REQUIRE AN AREA VARIANCE BECAUSE THE GATED EMERGENCY ACCESS MAY NOT BE 3) RESIDENTIAL DRIVEWAY TO GATED EMERGENCY ACCESS: 270 FEET. CONSIDERED A CURB CUT REQUIRING COMPLIANCE AREA VARIANCE REQUESTED WITH ZONING CODE § 94-14(D)(6). l) 225' 2) NO VARIANCE REQUIRED. 3) 330' • ZONING CODE § SECTION 97-14(A) MAXIMUM NONRESIDENTIAL FOOTPRINT IN THE CO ZONING DISTRICT IS 200,000 SF. PROPOSED - 300,000 S.F. AREA VARIANCE REQUESTED - 100,000 S.F. • ZONING CODE § 97-14(D)(2)(b) BUILDINGS, INCLUDING CANOPIES FOR ACCESSORY FACILITIES, SHALL HAVE PEAKED ROOFS WITH A SLOPE OF AT LEAST 8:12, EXCEPT THAT HIP ROOFS WITH A SLOPE OF AT LEAST 4:12 AND FLAT ROOFS THAT ARE HIDDEN BY A RAISED CORNICE SHALL ALSO BE PERMITTED. PROPOSED - THE PROJECT PROPOSES TO CONSTRUCT A WAREHOUSE WITH A FLAT ROOF WITH NO RAISED CORNICE AREA VARIANCE REQUESTED - TO PERMIT FLAT ROOF WITHOUT RAISED CORNICES. • ZONING CODE § 97-14(D)(2)(e). "LARGE BUILDING (FOOTPRINT LARGER THAN 10,000 SQUARE FEET) SHALL GENERALLY BE BROKEN UP INTO SMALLER VOLUMES USING BUILDING PROPORTIONS FOUND IN THE REGION'S TRADITIONAL ARCHITECTURE." PROPOSED - THE PROJECT PROPOSES TO CONSTRUCT A WAREHOUSE WITHOUT BREAKING UP THE BUILDING INTO SMALLER VOLUMES. AREA VARIANCE REQUESTED - TO ALLOW THE CONSTRUCTION OF A WAREHOUSE NOT BROKEN UP INTO SMALLER VOLUMES. • ZONING CODE § 97-75 (D)(5)(b) "LIGHTING STANDARDS SHALL NOT EXCEED 20 FEET IN HEIGHT." PROPOSED - THE PROJECT INCLUDES: I) 5 EXTERIOR WALL MOUNTED LIGHTS AT 25 FEET IN HEIGHT ON THE WESTERN SIDE OF THE PROPOSED WAREHOUSE 2) 4 POLE MOUNTED LIGHTS AROUND WESTERN TRAILER PARKING AREA AT 30 FEET IN HEIGHT. AREA VARIANCE REQUESTED: I) 5-FOOT AREA VARIANCE
   2) 10-FOOT AREA VARIANCE

 ZONING CODE § 97-75(D)(5)(b) "EXISTING LIGHTING FIXTURES SHALL BE DIRECTED DOWNWARD AND SHIELDED TO PREVENT LIGHT FROM SHINING UPWARD INTO THE SKY OR DIRECTLY ONTO NEIGHBORING PROPERTIES OR PUBLIC WAYS." PROPOSED - THE PROJECT WOULD RESULT IN MINOR LIGHT SPILLING INTO THE ROUTE 17M RIGHT-OF-WAY AS A RESULT OF INTERNAL LIGHTING FOR THE PROPOSED ACCESS DRIVE AND EMERGENCY ACCESS DRIVE. AREA VARIANCE REQUESTED: TO ALLOW THE PROPOSED LIGHTING OF THE INTERNAL ACCESS DRIVES THAT WILL RESULT IN MINOR LIGHT SPILLING ONTO THE ROUTE 17M RIGHT-OF-WAY

# WETLANDS:

TOTAL AREA : 1,208,945 S.F. / 27.75 ACRES WETLANDS DISTURBANCE: 7,639 SF / 0.18 ACRES

PARKING REQUIREMENTS:

#### REQUIRED

INDUSTRIAL/WAREHOUSE USES: TWO SPACES PER 1,000 SQUARE FEET OF ENCLOSED FLOOR SPACE OR ONE SPACE PER EMPLOYEE

75 EMPLOYEES / SHIFT (2 SHIFTS) TOTAL PARKING REQUIRED = 150 SPACES

TOTAL PARKING PROVIDED = 151 SPACES

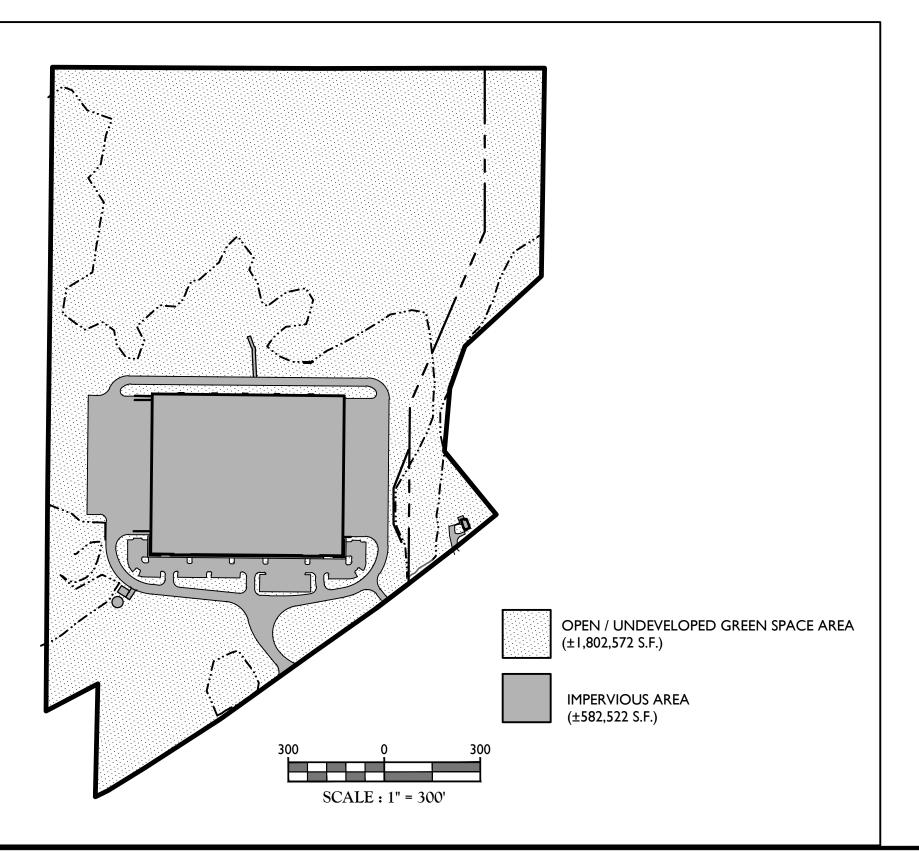
# PARKING LOCATION

SECTION § 97-14 D(1)(b) POTENTIAL WAIVER FROM PARKING PLACEMENT IN FRONT OF THE BUILDING PENDING FINAL SCREENING DESIGN.

#### ENVIRONMENTAL CONTROL FORMULA:

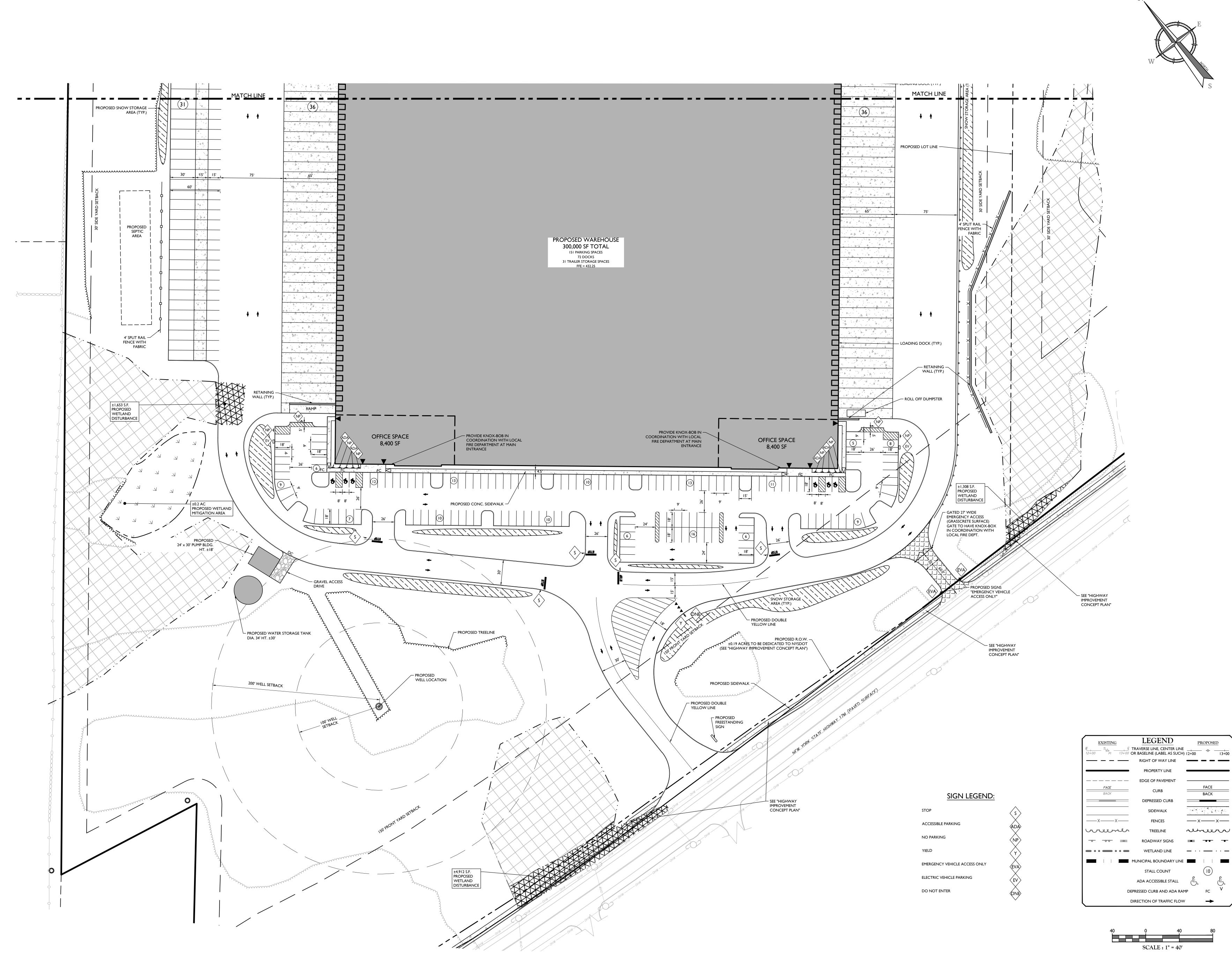
LOT #2 0.71 ACRES MdD SOIL \* 0.33 (ENVIORNMENTAL FACTOR) = 0.23 5.29 ACRES Ma SOIL \* 0.17 (ENVIORNMENTAL FACTOR) = 0.89 \_\_\_\_\_

TOTAL = 1.12 (>1.0 REQUIRED)

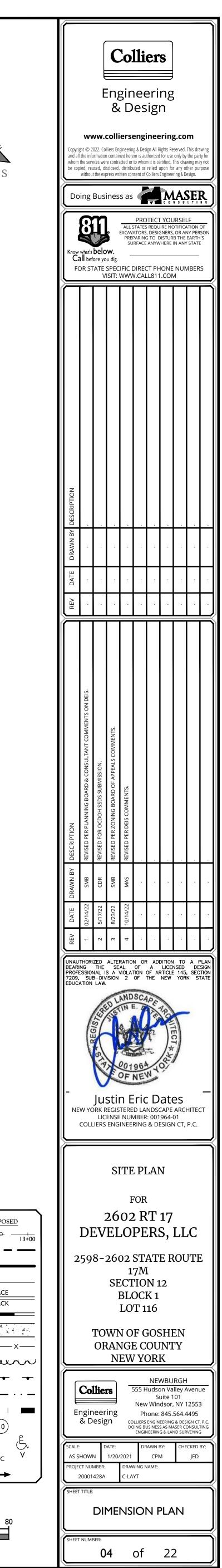




| NOTE: DO NO |      |                               |   |                        |                             |          |                          |                                |            | <u>1ULA:</u>  |   | V s  | No Rate                | E         |
|-------------|------|-------------------------------|---|------------------------|-----------------------------|----------|--------------------------|--------------------------------|------------|---|---|--|------------------------|-----------|
|             |      | PROJ                          |   |                        | 2                           |          | <br>N                    | PRO                            | REV DATE   | DRAWN BY DESCRIPTION  | Knov                                      | and a<br>whor<br>be co                       | Com                    |           |
|             | TNUM | E:<br>SHOW<br>ECT NU<br>20001 | ngir  |                        | D]<br>259                   |          | EW YC<br>COLI            | FESSIO                         | 1 02/14/22 | SMB REVISED PER PLANNING BOARD & CONSULTANT COMMENTS ON DEIS. | w what's<br>all be                        | all the inf<br>n the ser<br>opied, re        | <b>WI</b><br>right © 2 |           |
| 0           |      | N<br>MBER:<br>428A            | llie:<br>neer<br>vesig                                |                        | EV                          |          | ork f<br>Lic             | NAL I<br>B-DI\                 | 2 5/17/22  | CDR REVISED FOR OCDOH SSDS SUBMISSION.                        | belc<br>fore yc                           | ormation<br>vices we<br>used, d<br>It the ex | ww.                    |           |
| 3           |      |                               | ing   | WI<br>RAI              | EI<br>26<br>SF              |          | REGIS<br>ENSE            | S A                            | 3 8/23/22  | SMB REVISED PER ZONING BOARD OF APPEALS COMMENTS.             | <b>ow.</b><br>ou dig.                     | n contai<br>re contr<br>isclosed<br>press wr | 8<br>colli             | C         |
|             |      | /2021<br>DRAV<br>C-LA         | СС  | LO<br>N O<br>NGI<br>EW | LO<br>02<br>1<br>ECT<br>BLO | ITE<br>I | 001<br>OF<br>TERE<br>NUT | RATIO                          | 4 10/14/22 | MAS REVISED PER DEIS COMMENTS.                                | ALL<br>EXCAV<br>PRE<br>SU                 | ned her<br>acted or<br>, distrib<br>itten co | gir<br>D               | <u>`o</u> |
| of          |      | WING I                        | Nev<br>Pł<br>DLLIERS<br>DING B                        | F C<br>E C             | PE<br>ST<br>7N<br>'IO       | FOR      | d La<br>Mbef             | TION<br>OF                     | •          |   | PRC<br>STATES<br>ATORS<br>PARIN<br>IRFACE | ein is au<br>to who<br>uted or<br>nsent of   | eng                    | 111       |
|             |      | RAWN<br>CPI<br>NAME:          | Hudso<br>S<br>v Win<br>none:<br>ENGIN<br>USINES       | GOS<br>OU<br>OR        | ER<br>AT<br>I<br>N 1<br>K 1 | ł        | NDS<br>R: 001            | A<br>OF A<br>THE               | •          |   | S REQU<br>S, DESI<br>G TO I<br>E ANYV     | uthorized<br>m it is co<br>relied            | inee                   | er        |
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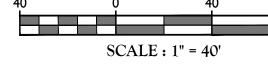
| 40 |  | ( | )    | 4         | 0  |
|----|--|---|------|-----------|----|
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|    |  | S | CALE | : 1" = 40 | 0' |



NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

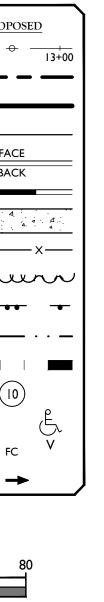


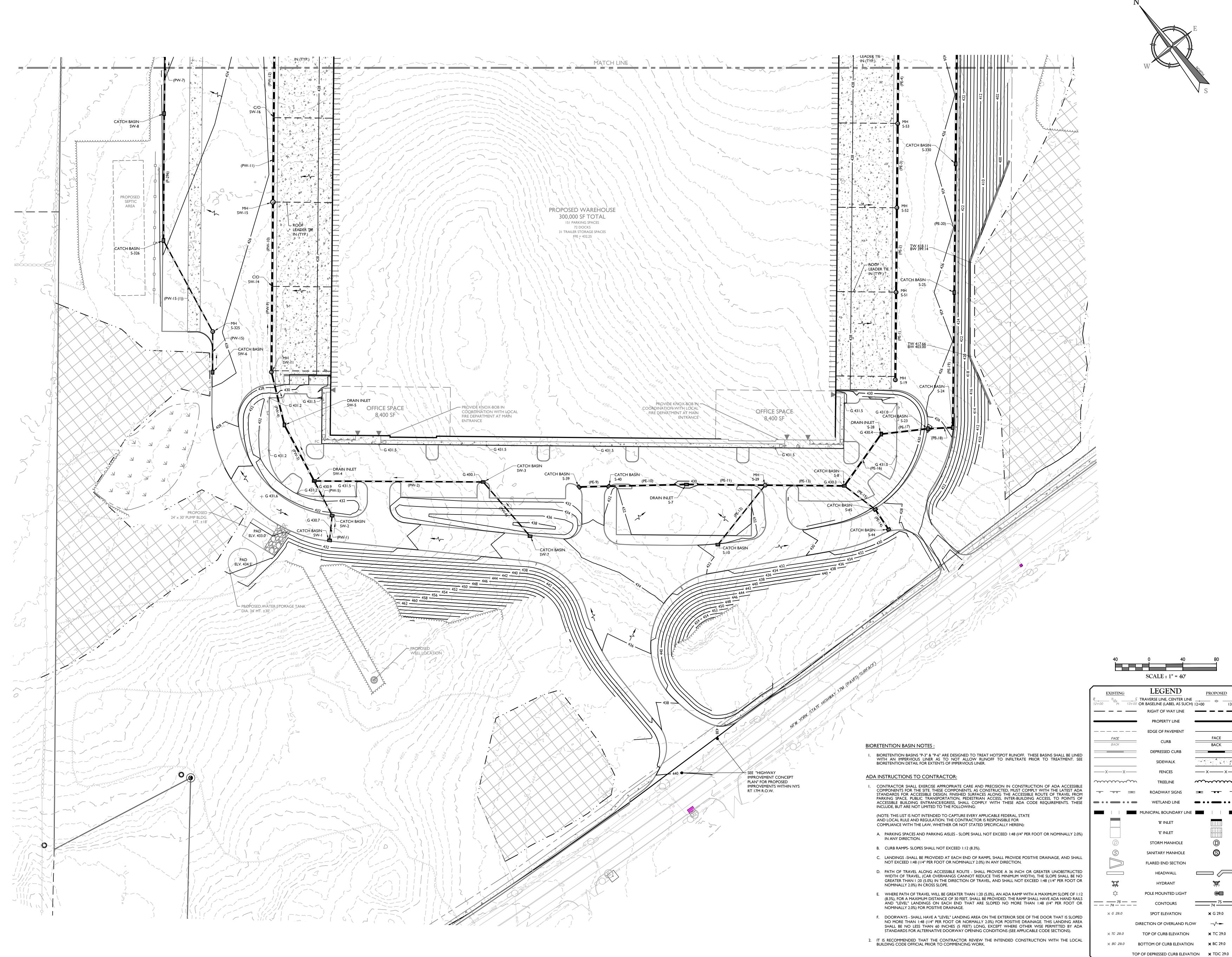
| EXISTING                    | LEGEND  | PROP         |
|-----------------------------|---|--------------|
| ₽ TL<br>12+00 PI 13+0       | $\frac{\varphi}{2}$ TRAVERSE LINE, CENTER LINE<br>O OR BASELINE (LABEL AS SUCH) | <br> 2+00 ── |
|                             | - RIGHT OF WAY LINE   | — –          |
| <b>C</b>                    | PROPERTY LINE   |              |
|                             | - EDGE OF PAVEMENT  |              |
| BACK                        | CURB  | BAG          |
|                             | DEPRESSED CURB  |              |
|                             | -<br>SIDEWALK<br>-  | <u>م</u> م   |
| XX                          | - FENCES  | x            |
| mumb                        | TREELINE  | im           |
| <del>-0 -00 <u>-0</u></del> | ROADWAY SIGNS   | <b>_</b>     |
| - • • • • • •               | WETLAND LINE  | <u> </u>     |
|                             | MUNICIPAL BOUNDARY LINE   |              |
|                             | STALL COUNT   |              |
|                             | ADA ACCESSIBLE STALL  | Ŀ            |
|                             | DEPRESSED CURB AND ADA RAM  | 1P FC        |
|                             | DIRECTION OF TRAFFIC FLOW   | _            |

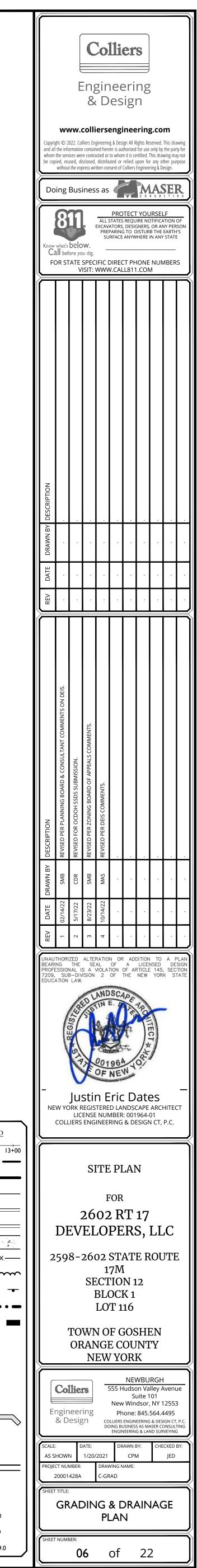




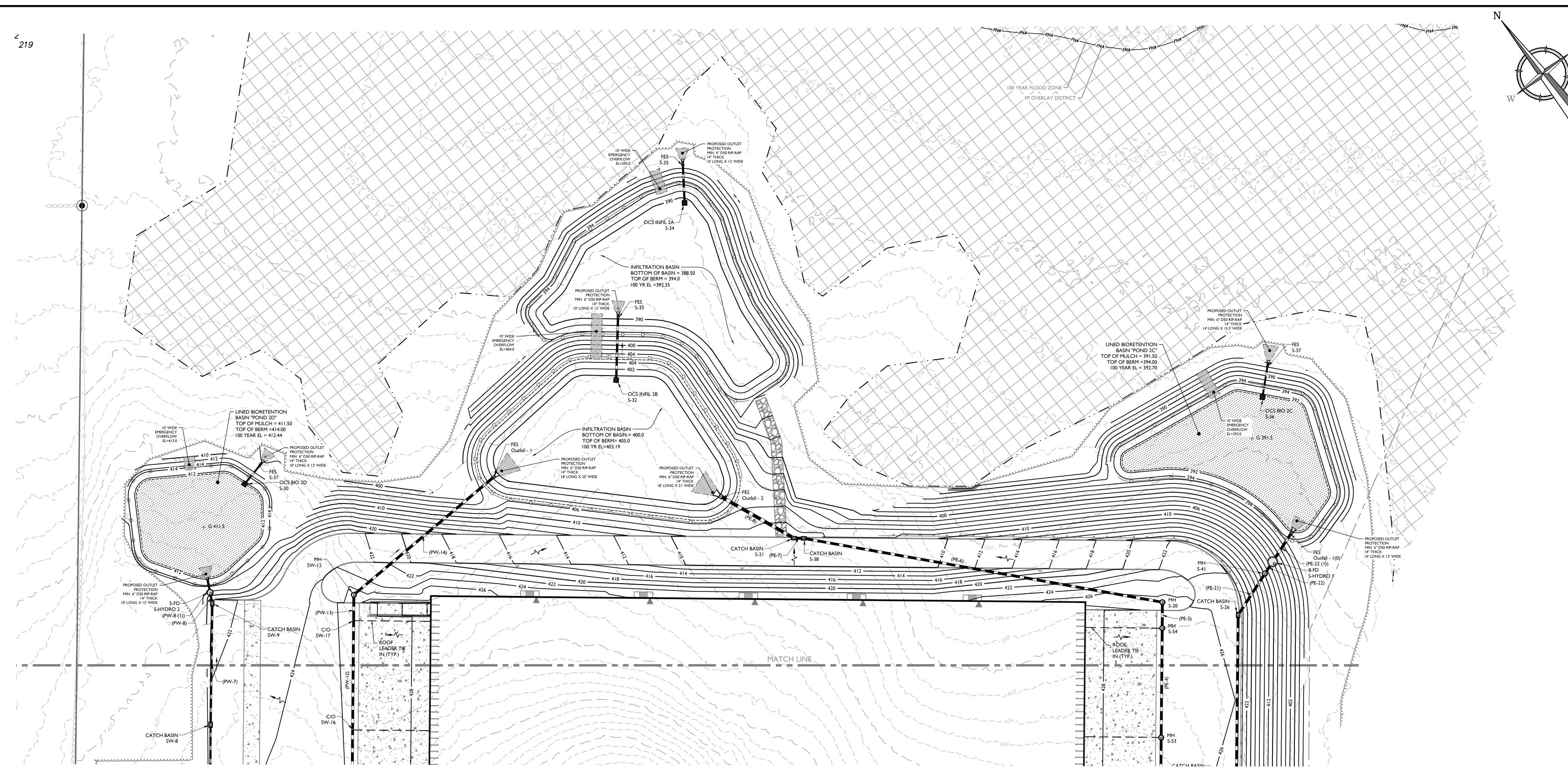
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|  | REV DATE DRAWN BY DESCRIPTION                 | 1 02/14/22 SMB REVISED PER PLANNING BOARD & CONSULTANT COMMENTS ON DEIS.               | 2 5/17/22 CDR REVISED FOR OCDOH SSDS SUBMISSION.                           | 3 8/23/22 SMB REVISED PER ZONING BOARD OF APPEALS COMMENTS. | 4 10/14/22 MAS REVISED PER DEIS COMMENTS.   |  |   |   |   |  |  |
|  |   | ESSIOL<br>SUL<br>ATION   | Ju:  | still<br>REGIS  |   | PSC<br>96<br>NE<br>DSC<br>96<br>NE   |   | CAPE<br>964-  | es<br>ARCI  | K S                                      | PLAN<br>SIGN<br>TTON<br>TATE                         |
| $\frac{POSED}{\Theta} \xrightarrow{1} 13+00$ |   | 59   | EV<br>8-:<br>TO  | 26<br>EI<br>26<br>SE  | F<br>02<br>02<br>1<br>201<br>5<br>201<br>8<br>10<br>10<br>10<br>10<br>10            | FOR<br>2 R<br>PE<br>ST.<br>7M<br>TIO<br>CIO<br>CI<br>T 1<br>T 1<br>F C<br>E C      | AT<br>AT<br>N 1<br>K 1<br>16<br>OU  | 17<br>S,<br>E F<br>2<br>SHI   | LL<br>ROU   |  |  |
|  | EI<br>SCALE<br>AS S<br>PROJEC                 | ngir<br>& D<br>HOW<br>20001  | N<br>MBER:<br>428A   | <b>rs</b><br>ing  | cc<br>DC<br>2021  | 555 F<br>New<br>Ph<br>DILLIERS<br>DING BU<br>ENGIN<br>DR                           | Iudso<br>Si<br>v Win<br>ione:<br>engin<br>JSINES:<br>VEERIN<br>RAWN E   | WBU<br>on Va<br>uite 1<br>dsor,<br>845.<br>EERING<br>S AS MA<br>G & LAI                             | , NY 1<br>564.4<br>5 & DES<br>ASER CO<br>ND SUF   | Veni<br>12553<br>1495<br>IGN CT          | 3<br>; p.c.<br>TING<br>3                             |
|  |   | NUM  | DII<br>ber:<br>0   | 5   |   | of   |   | 22  | 2   |  |  |



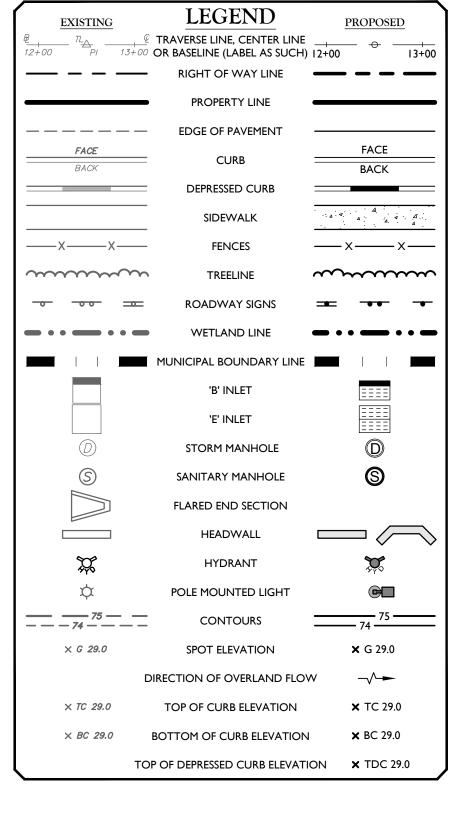


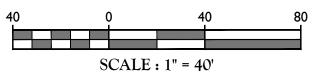


FACE BACK —\_x\_\_\_x\_\_ ----EEEE  $\bigcirc$ S Х. **C** 🗙 G 29.0 🗙 TC 29.0



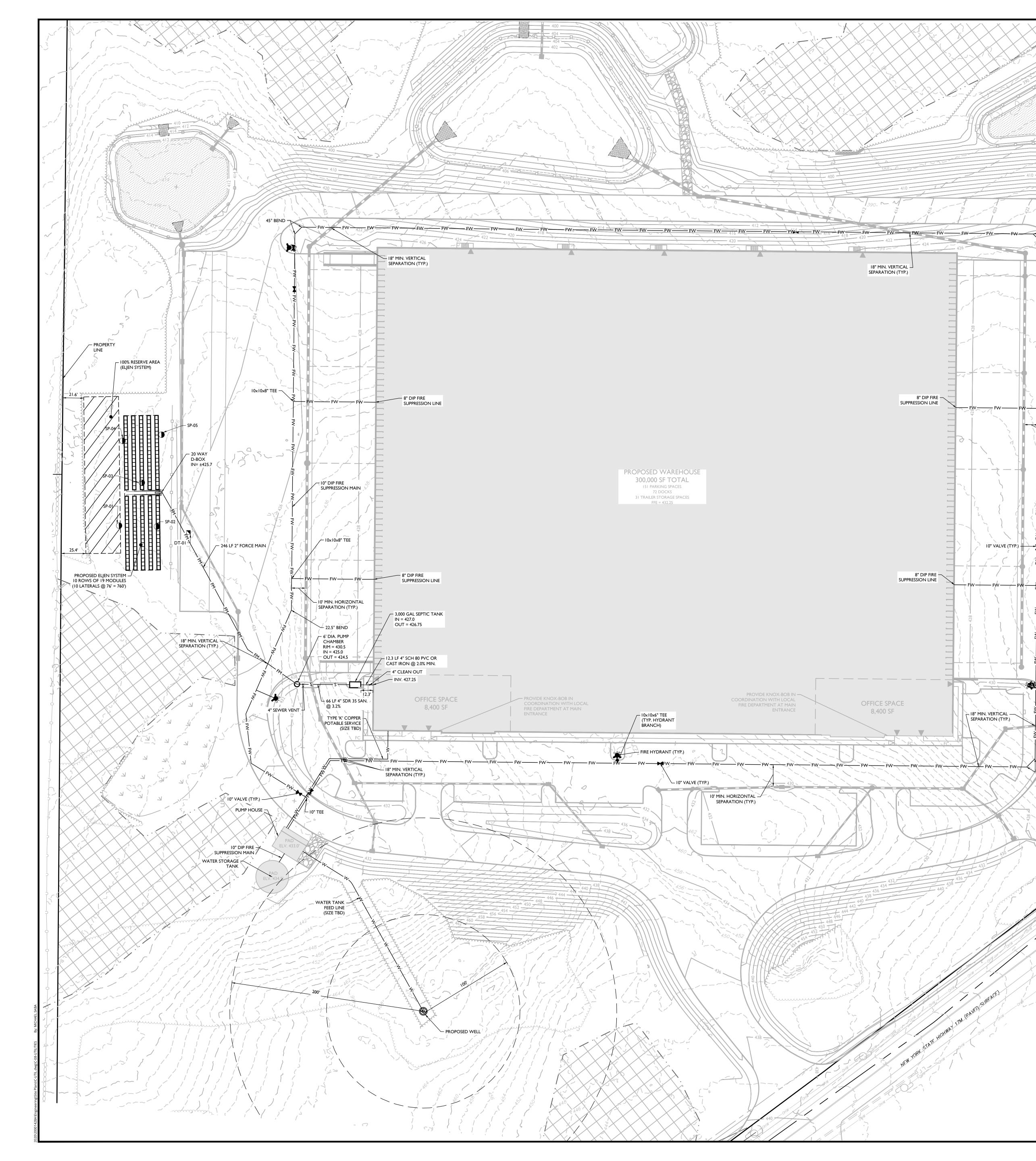
|                | Pro  | -                | )rainage<br>ure Tabl |              |             |                  |           | Propo       | sed Dra<br>Pipe T | ainage-V<br>`able | Vest      |        |                 | Pr                          | oposed<br>Struct | Drainage<br>ure Tabl |                  |             |               |           | -           | osed Di<br>Pipe [ | rainage-H<br>Fable | East      |        |                | OUTLET                     |           | ROL STI<br>1re Table |              | RES         |              |
|----------------|--|------------------|----------------------|--------------|-------------|------------------|-----------|-------------|-------------------|-------------------|-----------|--------|-----------------|-----------------------------|------------------|----------------------|------------------|-------------|---------------|-----------|-------------|-------------------|--------------------|-----------|--------|----------------|----------------------------|-----------|----------------------|--------------|-------------|--------------|
| Structure I.D. | Description  | Rim/Grate        | Pipes (In)           | Inverts (In) | Pipes (Out) | Inverts (Out)    | Pipe I.D. | Description | Length            | Invert Up         | Invert Dn | Slope  | Structure I.D.  | Description                 | Rim/Grate        | Pipes (In)           | Inverts (In)     | Pipes (Out) | Inverts (Out) | Pipe I.D. | Description | Length            | Invert Up          | Invert Dr | Slope  | Structure I.D. | Description                | Rim/Grate | Pipes (In)           | Inverts (In) | Pipes (Out) | Inverts (Out |
| Outfall - I    | 24 inch Flared End Section   | 402.16           | 24" HDPE             | 400.00       |             |                  | P-296     | I8"HDPE     | 150'              | 419.00            | 417.50    | 1.00%  | Outfall - I (0) | 24 inch Flared End Section  | 391.28           |                      |                  |             |               | PE-1      | 24"HDPE     | 104'              | 421.93             | 420.89    | 1.00%  | S-30           | 48 in. x 48 in. OCS        | 412.00    |                      |              | 15" HDPE    | 408.00       |
| Outfall - 2    | 15 inch Flared End Section   | 413.63           | 18" HDPE             | 411.50       |             |                  | PW-I      | 12"HDPE     | 29'               | 425.71            | 425.42    | 0.98%  | Outfall - 2     | 36 inch Flared End Section  | 405.23           | 30" HDPE             | 402.52           |             |               | PE-2      | 24"HDPE     | 100'              | 420.89             | 419.89    | 1.00%  | S-31           | 15 inch Flared End Section | 408.86    | 15" HDPE             | 407.50       |             |              |
| S-325          | 48 in. dia. CYLINDER MH  | 425.77           | 12" HDPE             | 420.50       | 12" HDPE    | 420.50           | PW-2      | I5"HDPE     | 200'              | 424.23            | 423.13    | 0.55%  | S-7             | 30 in. x 48 in. Drain Inlet | 427.83           | 18" HDPE             | 424.46           | 18" HDPE    | 424.66        | PE-3      | 24"HDPE     | 100'              | 419.89             | 418.89    | 1.00%  | S-32           | 48 in. x 48 in. OCS        | 404.00    |                      |              | 18" HDPE    | 398.00       |
| S-326          | 30 in. x 48 in. Catch Basin  | 423.84           | 12" HDPE             | 419.25       | 18" HDPE    | 419.00           | PW-3      | 18"HDPE     | 75'               | 423.13            | 422.44    | 0.92%  | S-8             | 30 in. x 48 in. Catch Basin | 428.89           | 18" HDPE<br>12" HDPE | 422.79<br>422.80 | 18" HDPE    | 422.79        | PE-4      | 24"HDPE     | 100'              | 418.89             | 417.89    | 1.00%  | S-33           | 18 inch Flared End Section | 390.13    | 18" HDPE             | 388.50       |             |              |
| S-HYDRO 2      | 60 in. dia. CYLINDER MH  | 418.61           | 18" HDPE             | 412.80       | 18" HDPE    | 412.80           | PW-4      | 18"HDPE     | 65'               | 422.44            | 421.82    | 0.96%  |                 |                             |                  | 12" HDPE             | 422.80           |             |               | PE-5      | 24"HDPE     | 24'               | 417.89             | 415.00    | 12.17% | S-34           | 48 in. x 48 in. OCS        | 392.00    |                      |              | 18" HDPE    | 388.00       |
| SW-1           | 30 in. x 48 in. Catch Basin  | 430.43           |                      |              | 12" HDPE    | 425.71           | PW-5      | 12"HDPE     | 46'               | 425.42            | 424.79    | 1.36%  | S-10            | 30 in. x 48 in. Catch Basin | 430.99           |                      |                  | 12" HDPE    | 427.33        | PE-6      | 24"HDPE     | 333'              | 414.83             | 404.83    | 3.00%  | S-35           | 18 inch Flared End Section | 387.63    | 18" HDPE             | 386.00       |             |              |
| SW-2           | 30 in. x 48 in. Catch Basin  | 430.42           | 12" HDPE             | 425.42       | 12" HDPE    | 425.42           | PW-6      | 12"HDPE     | 85'               | 430.35            | 424.23    | 7.20%  | S-19            | 48 in. dia. CONED MH        | 424.93           |                      |                  | 24" HDPE    | 421.93        | PE-7      | 24"HDPE     | 9'                | 404.83             | 404.58    | 2.84%  | S-36           | 48 in. x 48 in. OCS        | 392.00    |                      |              | 15" HDPE    | 388.00       |
| SW-3           | 30 in. x 48 in. Catch Basin  | 430.14           | 12" HDPE             | 424.23       | 15" HDPE    | 424.23           | PW-7      | 18"HDPE     | 111'              | 417.50            | 415.50    | 1.80%  | S-20            | 48 in. dia. CONED MH        | 424.80           | 24" HDPE             | 415.00           | 24" HDPE    | 414.83        | PE-8      | 30"HDPE     | 76'               | 404.58             | 402.52    | 2.72%  | S-37           | 15 inch Flared End Section | 385.36    | 15" HDPE             | 384.00       |             |              |
| SW-4           | 30 in. x 48 in. Drain Inlet  | 430.85           | 12" HDPE<br>15" HDPE | 424.79       | 18" HDPE    | 423.13           | PW-8      | 18"HDPE     | 10'               | 414.50            | 412.80    | 16.89% | S-21            | 30 in. x 48 in. Catch Basin | 409.24           | 24" HDPE             | 404.58           | 30" HDPE    | 404.58        | PE-9      | 18"HDPE     | 35'               | 425.73             | 425.38    | 1.00%  |                |                            |           |                      |              |             |              |
| 0.475          |  |                  | _                    | 423.13       |             |                  | PW-8 (I)  | 18"HDPE     | 8'                | 412.80            | 411.50    | 16.89% | S-23            | 30 in. x 48 in. Catch Basin | 424.93           | 18" HDPE             | 421.47           | 18" HDPE    | 420.50        | PE-10     | 18"HDPE     | 92'               | 425.38             | 424.46    | 1.00%  |                |                            |           |                      |              |             |              |
| SW-5           | 30 in. x 48 in. Drain Inlet<br>30 in. x 48 in. Catch Basin   | 430.99           | 18" HDPE             | 422.44       | 18" HDPE    | 422.44           | PW-9      | 24"HDPE     | 102'              | 420.80            | 419.78    | 1.00%  | S-24            | 30 in. x 48 in. Catch Basin | 424.40           | 18" HDPE             | 419.90           | 18" HDPE    | 419.80        | PE-11     | 18"HDPE     | 93'               | 424.66             | 423.73    | 1.00%  |                |                            |           |                      |              |             |              |
| SW-6           | $30 \text{ in. } \times 48 \text{ in. Catch Basin}$<br>$30 \text{ in. } \times 48 \text{ in. Catch Basin}$ | 425.30<br>434.62 |                      |              | 12" HDPE    | 421.00<br>430.35 | PW-10     | 24"HDPE     | 100'              | 419.78            | 418.78    | 1.00%  | S-25            | 30 in. x 48 in. Catch Basin | 424.40           | 18" HDPE             | 418.17           | 18" HDPE    | 418.17        | PE-12     | 12"HDPE     | 90'               | 427.33             | 424.65    | 2.97%  |                |                            |           |                      |              |             |              |
| SW-7<br>SW-8   | 30 in. x 48 in. Catch Basin<br>30 in. x 48 in. Catch Basin   | 434.82           | 18" HDPE             | 417.50       | 12 HDPE     | 430.33           | PW-11     | 24"HDPE     | 101'              | 418.78            | 417.78    | 0.99%  | S-26            | 30 in. x 48 in. Catch Basin | 423.54           | 24" HDPE             | 412.50           | 24" HDPE    | 411.00        | PE-13     | 18"HDPE     | 94'               | 423.73             | 422.79    | 1.00%  |                |                            |           |                      |              |             |              |
| SW-9           | 30 in. x 48 in. Catch Basin  | 421.32           | 18 HDPE              | 417.50       | 18" HDPE    | 417.50           | PW-12     | 24"HDPE     | 100'              | 417.78            | 416.79    | 0.99%  | S-28            | 30 in. x 48 in. Drain Inlet | 428.20           | 18" HDPE             | 422.03           | 18" HDPE    | 422.03        | PE-14     | 18"HDPE     | 29'               | 423.55             | 423.26    | 1.02%  |                |                            |           |                      |              |             |              |
| SW-11          | 48 in. dia. CYLINDER MH  | 427.25           | 18 HDPE              | 413.30       | 24" HDPE    | 420.80           | PW-13     | 24"HDPE     | 24'               | 416.79            | 416.55    | 1.01%  | S-29            | 48 in. dia. CONED MH        | 428.42           | 18" HDPE<br>12" HDPE | 423.73<br>424.65 | 18" HDPE    | 423.73        | PE-15     | 12"HDPE     | 46'               | 423.26             | 422.80    | 1.00%  |                |                            |           |                      |              |             |              |
| SW-12          | 48 in. dia. CYLINDER MH  | 426.85           | 24" HDPE             | 416.55       | 24" HDPE    | 415.55           | PW-14     | 24"HDPE     | 166'              | 415.55            | 400.00    | 9.35%  | S-38            | 30 in. x 48 in. Catch Basin | 409.24           | 24" HDPE             | 404.83           | 24" HDPE    | 404.83        | PE-16     | 18"HDPE     | 76'               | 422.79             | 422.03    | 1.01%  |                |                            |           |                      |              |             |              |
| SW-14          | 12 in. Clean Out   | 426.86           | 24" HDPE             | 419.78       | 24" HDPE    | 419.78           | PW-15     | 12"HDPE     | 48'               | 421.00            | 420.50    | 1.04%  | S-39            | 30 in. x 48 in. Catch Basin | 428.96           |                      |                  | 18" HDPE    | 425.73        | PE-17     | 18"HDPE     | 56'               | 422.03             | 421.47    | 1.00%  |                |                            |           |                      |              |             |              |
| SW-15          | 60 in. dia. CYLINDER MH  | 427.12           | 24" HDPE             | 418.78       | 24" HDPE    | 418.78           | PW-15 (1) | 12"HDPE     | 123'              | 420.50            | 419.25    | 1.02%  | S-40            | 30 in. x 48 in. Catch Basin | 429.43           | 18" HDPE             | 425.38           | 18" HDPE    | 425.38        | PE-18     | 18"HDPE     | 29'               | 420.50             | 419.90    | 2.04%  |                |                            |           |                      |              |             |              |
| SW-16          | 12 in. Clean Out   | 427.12           | 24" HDPE             | 417.78       | 24" HDPE    | 417.78           | <b></b>   |             |                   |                   |           |        | S-41            | 48 in. dia. CONED MH        | 408.32           | 24" HDPE             | 399.00           | 24" HDPE    | 391.83        | PE-19     | 18"HDPE     | 160'              | 419.80             | 418.17    | 1.02%  |                |                            |           |                      |              |             |              |
| SW-17          | 12 in. Clean Out   | 427.12           | 24" HDPE             | 416.79       | 24" HDPE    | 416.79           | •         |             |                   |                   |           |        | S-44            | 30 in. x 48 in. Catch Basin | 427.37           |                      |                  | 18" HDPE    | 423.55        | PE-20     | 18"HDPE     | 153'              | 418.17             | 415.75    | 1.59%  |                |                            |           |                      |              |             |              |
| 0111           |  | 127.112          |                      | 110.77       | 21 11012    | 110.77           | J         |             |                   |                   |           |        | S-45            | 30 in. x 48 in. Catch Basin | 427.38           | 18" HDPE             | 423.26           | 12" HDPE    | 423.26        | PE-20 (I) | 24"HDPE     | 160'              | 415.50             | 412.50    | 1.87%  |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-51            | 48 in. dia. CONED MH        | 425.03           | 24" HDPE             | 420.89           | 24" HDPE    | 420.89        | PE-21     | 24"HDPE     | 45'               | 411.00             | 399.00    | 26.66% |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-52            | 48 in. dia. CONED MH        | 425.11           | 24" HDPE             | 419.89           | 24" HDPE    | 419.89        | PE-22     | 24"HDPE     | 13'               | 391.83             | 390.99    | 6.47%  |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-53            | 48 in. dia. CONED MH        | 425.17           | 24" HDPE             | 418.89           | 24" HDPE    | 418.89        | PE-22 (I) | 24"HDPE     | 30'               | 390.99             | 389.03    | 6.47%  |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-54            | 48 in. dia. CONED MH        | 425.22           | 24" HDPE             | 417.89           | 24" HDPE    | 417.89        | ]         |             |                   |                    |           |        |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-330           | 30 in. x 48 in. Catch Basin | 424.40           | 18" HDPE             | 415.75           | 24" HDPE    | 415.50        |           |             |                   |                    |           |        |                |                            |           |                      |              |             |              |
|                |  |                  |                      |              |             |                  |           |             |                   |                   |           |        | S-HYDRO I       | 96 in. dia. CYLINDER MH     | 394.65           | 24" HDPE             | 390.99           | 24" HDPE    | 390.99        | ]         |             |                   |                    |           |        |                |                            |           |                      |              |             |              |

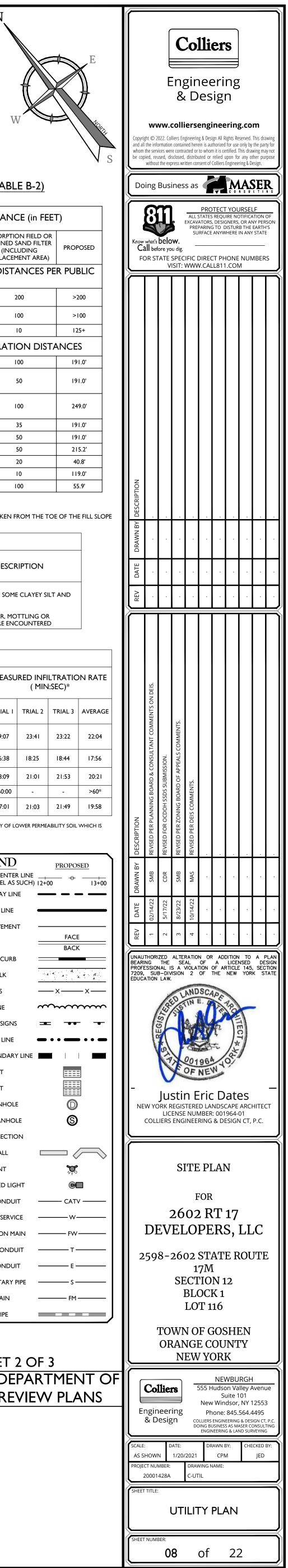






|                                   |   |                                  | C   | 0  |                                       | er   | S   |  |                                 |                     |
|-----------------------------------|---|----------------------------------|---|--|---------------------------------------|--|---|--|---------------------------------|---------------------|
|                                   | wv  |                                  | &   | gir<br>D<br>ers  | es                                    | ig   | n   |  | m                               |                     |
| and all<br>whom                   | ght © 2<br>the info<br>the serv<br>ied, reu<br>withou | ormatior<br>ices wei<br>ised, di | n contair<br>re contra<br>sclosed,        | ned here<br>acted or   | ein is au<br>to whor<br>uted or       | thorized<br>n it is ce<br>relied u             | for use<br>ertified.<br>upon fo                     | only by<br>This dra<br>r any o   | the par<br>wing ma<br>ther pu   | ty for<br>ay not    |
| Do                                | ing   | Busi                             | ines                                      |  | PRC                                   |  |   |  |                                 |                     |
| Ca                                | what's<br>all bef                                     | ore yo                           | W.<br>u dig.<br>SPEC                      | EXCAV<br>PREI<br>SU  | ATORS<br>PARING<br>RFACE              | S, DESIG<br>G TO E<br>ANYW                     | GNERS<br>DISTUR<br>(HERE                            | B THE  | NY PER<br>EARTH<br>' STATE      | ISON<br>I'S<br>E    |
|                                   |   |                                  |   |  |                                       |  |   |  |                                 |                     |
| DATE DRAWN BY DESCRIPTION         |   |                                  |   |  |                                       |  |   |  |                                 | ·                   |
| REV D/                            |   |                                  |   |  |                                       |  |   |  |                                 |                     |
| are rev date drawn by description | NG  | THE                              | の また 2000 2000 2000 2000 2000 2000 2000 2 | OP Provide         4         10/14/22         MAS         REVISED PER DEIS COMMENTS. | N OF                                  | А  |   | NSED   |                                 |                     |
| 7209,<br>EDUC/                    |   | JUS<br>JUS                       |   |  | OF<br>DSC,<br>E<br>196<br>NE<br>CIC   |  | ATC   | PYOR<br>ES<br>ARCIO  | HITEC                           | TATE                |
|                                   | DI<br>59  | EV                               | 26<br>EI<br>260<br>SE                     | 02<br>.0   | FOR<br>2. R<br>PE<br>ST.<br>7M<br>TIO | T<br>ER<br>AT<br>I<br>N 1                      | 17<br>S,<br>E F                                     |  |                                 | -                   |
|                                   | 1   |                                  | WI  | LO<br>I O<br>IGI<br>EW   | T1<br>FC<br>EC                        | 16<br>505<br>0U                                | 'N'I  |  |                                 |                     |
|                                   | Co<br>ngir<br>& D                                     | ieer                             | ing                                       | со   | New<br>Ph<br>OLLIERS                  | ludso<br>Si<br>Win<br>None:<br>ENGIN<br>USINES | on Va<br>uite 1<br>dsor<br>845.<br>eering<br>s AS M | RGH<br>Iley A<br>01<br>, NY 1<br>564.4<br>5 & DES<br>ASER CO<br>ND SUF | Venu<br>12553<br>1495<br>IGN CT | 3<br>, p.c.<br>TING |
| PROJE                             | HOWI  | N<br>MBER:<br>428A               | ATE:<br>1/20/                             |  | VING N                                | RAWN E<br>CPN<br>JAME:                         |   | CHE  | CKED<br>JED                     | BY:                 |
|                                   |   |                                  |   | IG<br>P  | & C<br>LA                             |  |   |  | GE                              |                     |
|                                   | . Jivit   |                                  | 7   |  | of                                    |  | 22  | 2  |                                 |                     |





NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

### NYSDEC DESIGN MANUAL (TABLE B-2)

| EXISTING FEATURES   | WATERTIGHT<br>SEPTIC TANK | SEWER LINE         | ABSORPTION FIELD OR<br>UNLINED SAND FILTER<br>(INCLUDING<br>REPLACEMENT AREA) | PF  |
|---|---------------------------|--------------------|---|-----|
| REQUIRED MINIMUM H  |                           | SEPARATIC<br>H LAW | ON DISTANCES PE   | R P |
| DRILLED WELL - PUBLIC WATER<br>SYSTEM                             | 100                       | 50                 | 200   |     |
| DRILLED WELL - PRIVATE WATER<br>SYSTEM                            | 50                        | 50                 | 100   |     |
| WATER LINE (PRESSURE)   | 10                        | 10                 | 10  |     |
| RECOMMENDED MIN   |                           | ZONTAL SI          | EPARATION DISTA   |     |
| SURFACE WATER   | 50                        | 25                 | 100   |     |
| NTERCEPTOR DRAIN / OPEN<br>DRAINAGE DIVERSION TO<br>GROUNDWATER   | 25                        | 25                 | 50  |     |
| STORMWATER MANAGEMENT<br>PRACTICE DISCHARGING TO<br>SURFACE WATER | 50                        | 25                 | 100   |     |
| CULVERT (TIGHT PIPE)  | 25                        | 10                 | 35  |     |
| CULVERT OPENING   | 25                        | 25                 | 50  |     |
| CATCH BASIN   | 25                        | N/A                | 50  |     |
| FOUNDATION  | 10                        | N/A                | 20  |     |
| PROPERTY LINE   | 10                        | 10                 | 10  |     |
|   |                           |                    |   |     |

NOTE:

IN FILL CONDITIONS, HORIZONTAL SEPARATION DISTANCES SHOULD BE TAKEN FROM THE TOE OF THE FILL SLOPE

| DEEP TEST      |          |       |  |  |  |  |  |  |  |
|----------------|----------|-------|--|--|--|--|--|--|--|
| LOCATION<br>ID | DATE     | DEPTH | soil description   |  |  |  |  |  |  |
| DT-01          | 09/09/20 | 72"   | 0-12" - TOPSOIL<br>12"-72" - SAND WITH SOME CLAYEY SILT AN<br>LITTLE GRAVEL<br>NO GROUND WATER, MOTTLING OR<br>RESTRICTIVE FEATURE ENCOUNTERED |  |  |  |  |  |  |

| LOCATION<br>ID | DATE     | TE DEPTH SOIL DESCRIPTION |  | MEASURED INFILTRATI<br>( MIN:SEC)* |         |         |  |
|----------------|----------|---------------------------|--|------------------------------------|---------|---------|--|
|                |          |                           |  | TRIAL I                            | TRIAL 2 | TRIAL 3 |  |
| SP-01          | 09/09/20 | 24"                       | LT. BROWN MF SAND SOME CLAYEY SILT,<br>TRACE F. GRAVEL     | 19:07                              | 23:41   | 23:22   |  |
| SP-02          | 09/09/20 | 24"                       | LT. BROWN MF SAND SOME CLAYEY SILT,<br>TRACE F. GRAVEL     | 16:38                              | 18:25   | 18:44   |  |
| SP-03          | 09/09/20 | 24"                       | LT. BROWN MF SAND, LITTLE CLAYEY SILT,<br>LITTLE MF GRAVEL | 18:09                              | 21:01   | 21:53   |  |
| SP-04          | 09/09/20 | 24"                       | LT. BROWN MF SAND SOME CLAYEY SILT                         | >60:00                             | -       | -       |  |
| SP-05          | 09/09/20 | 24"                       | LT. BROWN MF SAND SOME CLAYEY SILT,<br>LITTLE MF GRAVEL    | 17:01                              | 21:03   | 21:49   |  |

NOT CONSISTENT THROUGH THE RESULTS OF THE REMAINING TESTING AND/OR A FAULTY TEST.

## SEPTIC DESIGN (PRIMARY & RESERVE) CALCULATION FOR THIS DESIGN 22:04 MINUTES/INCH STABILIZED PERCOLATION RATE: USE 21-30 MINUTES/INCH DESIGN RATE APPLICATION RATE = 21-30 MINUTES/INCH = 0.6 GAL/DAY/SF 150 WAREHOUSE EMPLOYEES (12 GPD/PERSON\*) = 1,800 GPD \*LOW FLOW PLUMBING FIXTURES

REQUIRED AREA (SF) = FLOW RATE (GPD)/APPLICATION RATE = 1,800 GPD / 0.6 GAL/DAY/SF = 3,000 SF

MINIMUM REQUIRED TRENCH LENGTH (ELJEN 4 SF/LF) = 3,000 SF / 4 SF/LF = 750 LF

750 LF/4/MODULE = 188 ELJEN-IN DRAIN UNITS REQUIRED 190 ELJEN-IN DRAIN MODULES PROVIDED 10 ROWS, 19 MODULES EACH (10 ROWS @76' EACH = 760 LF)

# DOSE DRAW

10

- 10x10x8" TEE

- 10x10x8" TEE

🖌 45° BEND

– 10' MIN. HORIZONTAL SEPARATION (TYP.)

CALCULATION FOR THIS DESIGN

(10) 4- INCH LATERALS 76 FEET IN LENGTH

4" PIPE AREA =  $(0.25\Pi(4)^2/144) = 0.0872$  SF.

CONVERSION: I CF = 7.48 GAL. FIELD VOLUME = 10 \* 76 \* 0.0872 = 66.3 CF (496 GAL.)

2" PIPE AREA =  $(0.25\Pi(2)^2/144) = 0.0218$  SF.

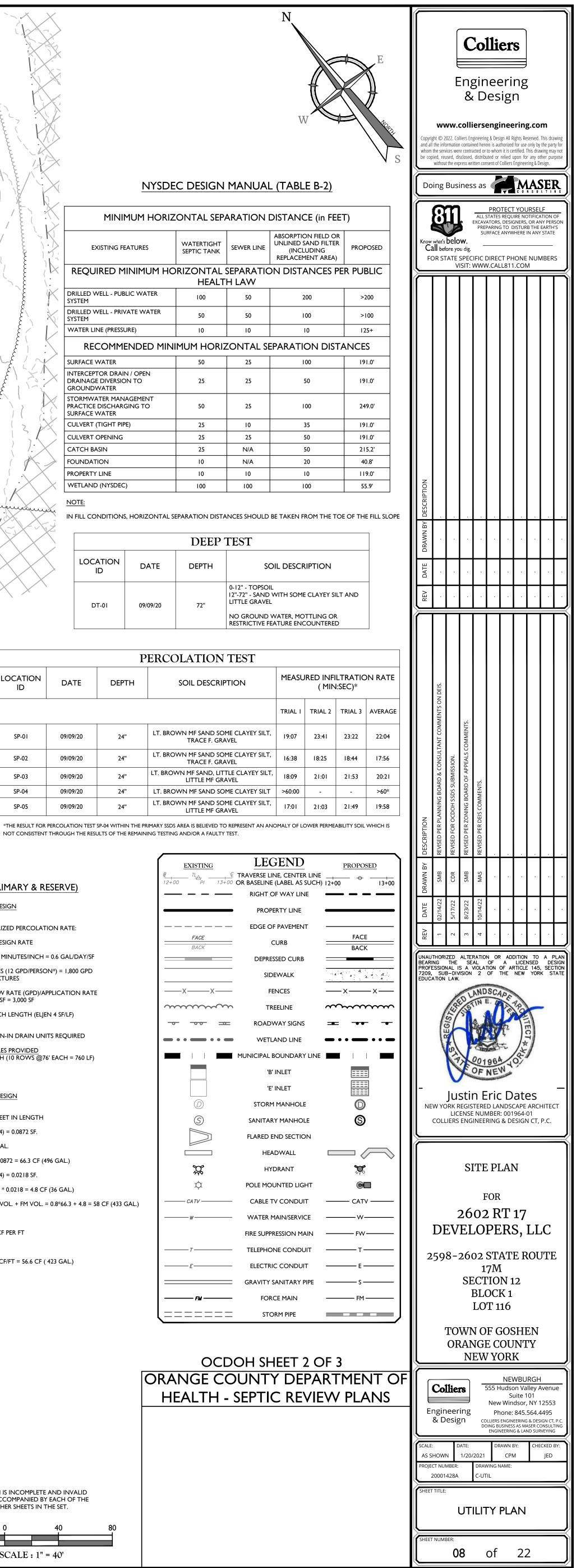
FORCEMAIN VOLUME = 220 \* 0.0218 = 4.8 CF (36 GAL.)

DOSE TARGET = 80% FIELD VOL. + FM VOL. = 0.8\*66.3 + 4.8 = 58 CF (433 GAL.)

CHAMBER SIZE = 6 FT DIA. CHAMBER VOLUME = 28.3 CF PER FT

DOSE DRAW = 2.0' (24")

DOSE VOLUME = 2.0' \* 28.3 CF/FT = 56.6 CF ( 423 GAL.)



SITE PLAN IS INCOMPLETE AND INVALID UNLESS ACCOMPANIED BY EACH OF THE OTHER SHEETS IN THE SET.

| 40 | ( | )    | 4        | 0  | 80 |
|----|---|------|----------|----|----|
|    |   |      |          |    |    |
|    | S | CALE | : 1" = 4 | 0' |    |



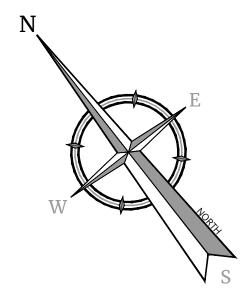
# PHASE 1 CONSTRUCTION SEQUENCE

- INSTALL CONSTRUCTION ENTRANCE AND STAGING AREA.
- STAKE OUT PHASE I LIMITS OF DISTURBANCE AND INSTALL ORANGE CONSTRUCTION FENCE FOR WETLAND PROTECTION.
- INSTALL PERIMETER SILT FENCING ON DOWNHILL AREAS AS SHOWN ON THE PLANS. DOUBLE ROWS OF SILT FENCE SHALL BE INSTALLED ADJACENT TO WETLAND AREAS.
- SITE SHALL BE ROUGH GRADED AS SHOWN ON THE PLANS WITH A TRAIL ESTABLISHED LEADING NORTHEAST TO SEDIMENT BASIN 'A' FOR ITS CONSTRUCTION. INSTALL TEMPORARY SWALES TO DIRECT RUNOFF FROM ALL OPEN SOIL AREAS TO SEDIMENT POND, AS NECESSARY. LOCATIONS AND SIZE OF THE EROSION AND SEDIMENT CONTROL PRACTICES ARE NOTED ON THE PLAN. THESE MAY VARY DEPENDING ON THE CONTRACTORS SCHEDULE AND APPROACH. HOWEVER, 3,600 CF OF STORAGE MUST BE PROVIDED AT A MINIMUM PER ACRE OF TRIBUTARY DRAINAGE AREA. SEDIMENT TRAPS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND DETAILS. SEDIMENT TRAPS AND BASINS SHALL BE SIZED IN ACCORDANCE WITH THE NYSDEC "BLUEBOOK".
- THE EASTERN RETAINING WALL SHALL BE INSTALLED AROUND THE WETLAND AREA. WITH THE GRADE ESTABLISHED WEST OF THE WALL. A CONCRETE WASHOUT AREA SHALL BE INSTALLED TO FACILITATE THE CONSTRUCTION OF THE WALL. THE "CUT" AREA WITHIN THE BUILDING FOOTPRINT SHALL BE EXCAVATED AS REQUIRED TO PROVIDE MATERIAL FOR THE EASTERN PORTION OF THE PHASE I CONSTRUCTION (FILL) . THE REMAINING AREAS WITHIN PHASE I SHALL BE ROUGH GRADED PER THE
- DISTURBED SOIL AREAS SHALL BE TEMPORALITY STABILIZED AS SOON AS PRACTICABLE. THE CONTRACTOR SHALL INITIATE STABILIZATION MEASURES, INCLUDING SLOPE STABILIZATION MATTING AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT NOT MORE THAN THREE (3) DAYS AFTER CONSTRUCTION IN THAT PORTION OF THE SITE HAS TEMPORALLY OR

PERMANENTLY CEASED.

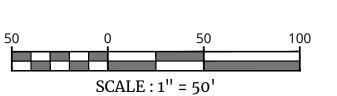
ENHANCE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS APPLICABLE DURING PHASE I OF CONSTRUCTION.

> PHASE 1 GRADING NOTE CUT/FILL FOR PHASE I IS APPROXIMATELY BALANCED. IT IS NOT ANTICIPATED THAT MATERIAL WILL NEED TO BE REMOVED FROM THE SITE, NOR MATERIAL IMPORTED DURING THIS PAHSE.



### LEDGED FOR EROSION CONTROL DURING CONSTRUCTION

|                 | CONSTRUCTION LIMIT LINE             |
|-----------------|-------------------------------------|
| X               | SILT FENCE                          |
| <b></b>         | ORANGE CONSTRUCTION FENCE           |
|                 | SLOPE MATTING                       |
|                 | STABILIZED CONSTRUCTION<br>ENTRANCE |
|                 | STONE OUTLET SEDIMENT TRAP          |
| $\rightarrow -$ | TEMPORARY SWALE                     |
|                 | TEMPORARY SEDIMENT BASIN            |
| SP X            | MATERIAL STOCKPILE                  |
|                 | CHECK DAM                           |



# GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

#### MCNY-SOIL-NOTE-1000

- POTENTIAL IMPACTS TO BAT SPECIES. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE,
- ACCORDING TO STATE STANDARDS. PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN
- HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED. ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2016 NEW YORK STANDARDS
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT. THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEOUATE VEGETATIVE GROUND COVER. SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- . CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- 5. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS
- A RESULT OF CONSTRUCTION OF THE PROJECT. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED
- WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCITON MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION
- ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROIECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION. ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND
- SEDIMENT CONTROL. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
- 21. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES. 2. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION\*\* AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN

CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL. \*FINAL STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.

MAINTENANCE PLAN DURING CONSTRUCTION: INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-15-002 OR AS AMENDED. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE

CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS' CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

NOTE: DURING THE CONSTRUCTION OF A PHASE, EACH SUBSEQUENT PHASE WILL HAVE REACHED FINAL STABILIZATION BEFORE INITIATING THE NEXT PHASE.

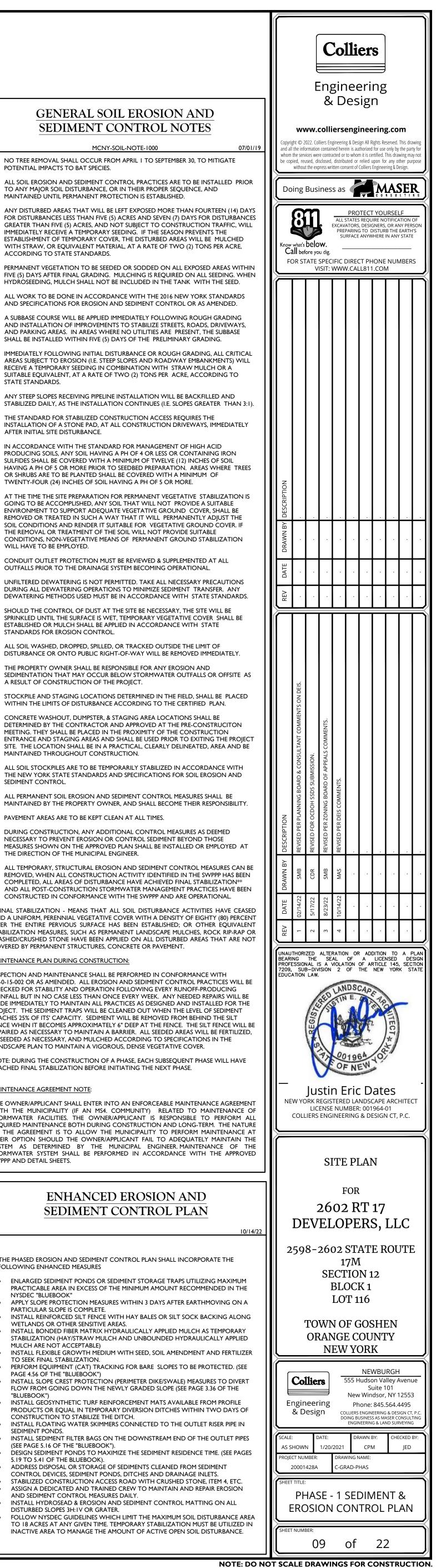
MAINTENANCE AGREEMENT NOTE:

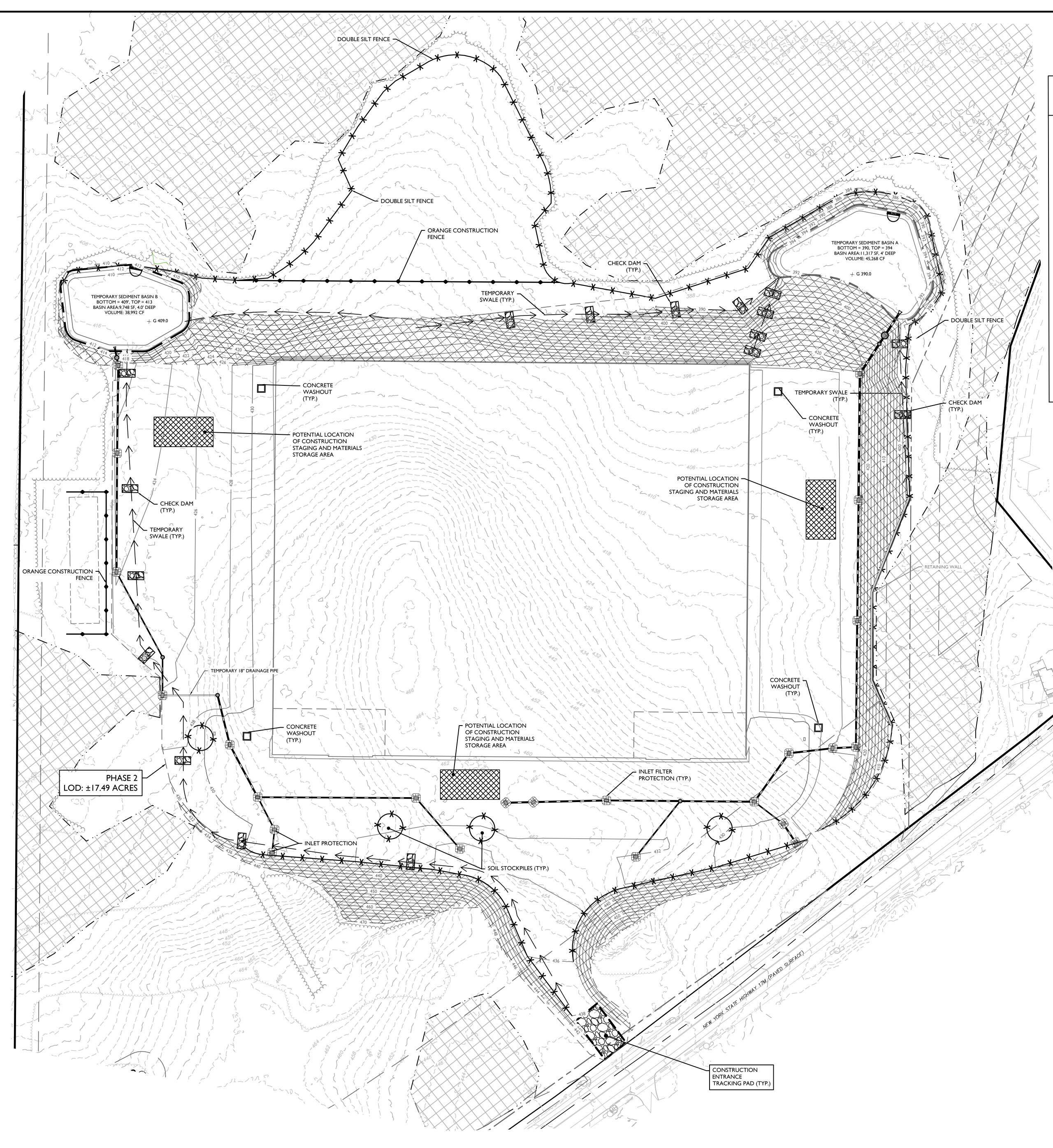
THE OWNER/APPLICANT SHALL ENTER INTO AN ENFORCEABLE MAINTENANCE AGREEMENT WITH THE MUNICIPALITY (IF AN MS4. COMMUNITY) RELATED TO MAINTENANCE OF STORMWATER FACILITIES. THE OWNER/APPLICANT IS RESPONSIBLE TO PERFORM ALL REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE MUNICIPALITY TO PERFORM MAINTENANCE AT THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER. MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.

# ENHANCED EROSION AND SEDIMENT CONTROL PLAN

THE PHASED EROSION AND SEDIMENT CONTROL PLAN SHALL INCORPORATE THE FOLLOWING ENHANCED MEASURES

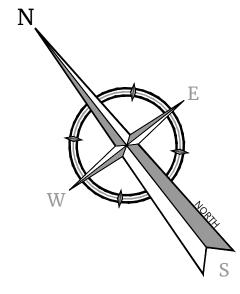
- ENLARGED SEDIMENT PONDS OR SEDIMENT STORAGE TRAPS UTILIZING MAXIMUM PRACTICABLE AREA IN EXCESS OF THE MINIMUM AMOUNT RECOMMENDED IN THE
- NYSDEC "BLUEBOOK" APPLY SLOPE PROTECTION MEASURES WITHIN 3 DAYS AFTER EARTHMOVING ON A
- PARTICULAR SLOPE IS COMPLETE. INSTALL REINFORCED SILT FENCE WITH HAY BALES OR SILT SOCK BACKING ALONG WETLANDS OR OTHER SENSITIVE AREAS.
- INSTALL BONDED FIBER MATRIX HYDRAULICALLY APPLIED MULCH AS TEMPORARY STABILIZATION (HAY/STRAW MULCH AND UNBOUNDED HYDRAULICALLY APPLIED MULCH ARE NOT ACCEPTABLE)
- INSTALL FLEXIBLE GROWTH MEDIUM WITH SEED, SOIL AMENDMENT AND FERTILIZER TO SEEK FINAL STABILIZATION
- PERFORM EQUIPMENT (CAT) TRACKING FOR BARE SLOPES TO BE PROTECTED. (SEE PAGE 4.56 OF THE "BLUEBOOK") INSTALL SLOPE CREST PROTECTION (PERIMETER DIKE/SWALE) MEASURES TO DIVERT
- FLOW FROM GOING DOWN THE NEWLY GRADED SLOPE (SEE PAGE 3.36 OF THE "BLUEBOOK") INSTALL GEOSYNTHETIC TURF REINFORCEMENT MATS AVAILABLE FROM PROFILE
- PRODUCTS OR EQUAL IN TEMPORARY DIVERSION DITCHES WITHIN TWO DAYS OF CONSTRUCTION TO STABILIZE THE DITCH. INSTALL FLOATING WATER SKIMMERS CONNECTED TO THE OUTLET RISER PIPE IN
- SEDIMENT PONDS. INSTALL SEDIMENT FILTER BAGS ON THE DOWNSTREAM END OF THE OUTLET PIPES
- (SEE PAGE 5.16 OF THE "BLUEBOOK"). DESIGN SEDIMENT PONDS TO MAXIMIZE THE SEDIMENT RESIDENCE TIME. (SEE PAGES 5.19 TO 5.41 OF THE BLUEBOOK).
- ADDRESS DISPOSAL OR STORAGE OF SEDIMENTS CLEANED FROM SEDIMENT CONTROL DEVICES, SEDIMENT PONDS, DITCHES AND DRAINAGE INLETS.
- STABILIZED CONSTRUCTION ACCESS ROAD WITH CRUSHED STONE, ITEM 4, ETC. ASSIGN A DEDICATED AND TRAINED CREW TO MAINTAIN AND REPAIR EROSION
- AND SEDIMENT CONTROL MEASURES DAILY. INSTALL HYDROSEAD & EROSION AND SEDIMENT CONTROL MATTING ON ALL
- DISTURBED SLOPES 3H: IV OR GRATER. FOLLOW NYSDEC GUIDELINES WHICH LIMIT THE MAXIMUM SOIL DISTURBANCE AREA TO 18 ACRES AT ANY GIVEN TIME. TEMPORARY STABILIZATION MUST BE UTILIZED IN INACTIVE AREA TO MANAGE THE AMOUNT OF ACTIVE OPEN SOIL DISTURBANCE.





# PHASE 2 CONSTRUCTION SEQUENCE

- INSTALL REMAINING PERIMETER SILT FENCING ON DOWNHILL AREAS AS SHOWN ON THE PLANS. DOUBLE ROWS OF SILT FENCE SHALL BE INSTALLED ADJACENT TO WETLAND AREAS.
- SITE SHALL BE ROUGH GRADED AS SHOWN ON THE PLANS WITH A TRAIL ESTABLISHED LEADING NORTH TO SEDIMENT BASIN 'B' FOR ITS CONSTRUCTION. INSTALL TEMPORARY SWALES TO DIRECT RUNOFF FROM ALL OPEN SOIL AREAS TO SEDIMENT POND, AS NECESSARY. LOCATIONS AND SIZE OF THE EROSION AND SEDIMENT CONTROL PRACTICES ARE NOTED ON THE PLAN. THESE MAY VARY DEPENDING ON THE CONTRACTORS SCHEDULE AND APPROACH BUT 3,600 CF OF STORAGE MUST BE PROVIDED AT A MINIMUM PER ACRE OF TRIBUTARY DRAINAGE AREA. SEDIMENT TRAPS SHALL BE INSTALLED IN ACCORDANCE WITH THE PLANS AND DETAILS. SEDIMENT TRAPS AND BASINS SHALL BE SIZED IN ACCORDANCE WITH THE NYSDEC "BLUEBOOK".
- ROUGH GRADE THE WESTERN HALF OF THE SITE TO THE PROPOSED GRADES SHOWN ON THE PLAN. THE BUILDING FOOTPRINT SHALL BE GRADED TO FACILITATE THE CONSTRUCTION OF THE FOUNDATION AND BUILDING PAD. CONCRETE WASHOUT AREAS SHALL BE INSTALLED PRIOR TO THE BUILDING PAD. BUILDING SLAB SHALL BE INSTALLED, STABILIZING THE CENTER OF THE SITE.
- PAVEMENT SUB-BASE SHALL BE INSTALLED SOUTH, EAST, AND WEST OF THE BUILDING TO A STABILIZE THE AREAS TO BE PAVED. ONCE MOST OF THE PAVED AREAS HAVE BEEN STABILIZED WITH SUB-BASE, THE
- DRAINAGE PIPES AND STRUCTURES SHALL BE INSTALLED TO DIRECT RUNOFF TO SEDIMENT BASINS A & B. INLET PROTECTION SHALL BE INSTALLED AROUND EACH BASIN TO PREVENT SEDIMENTATION FROM ENTERING THE SYSTEM. CONTRACTOR SHOULD NOTE THE SINGLE TEMPORARY DRAINAGE PIPE AT THE SOUTHWEST CORNER OF THE BUILDING TO DIRECT RUNOFF TOWARDS SEDIMENT BASIN B.
- FUTURE CURBED ISLANDS ARE TO BE USED FOR SOIL STOCKPILES.
- ADDITIONAL ORANGE CONSTRUCTION FENCE SHALL BE INSTALLED AROUND THE SEPTIC FIELD AND INFILTRATION BASINS, TO BE INSTALLED IN PHASE 3, TO PROTECT THEM FROM COMPACTION DURING CONSTRUCTION.
- DISTURBED SOILS SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICAL. MATERIALS STORED IN STOCKPILES SHALL BE CORDONED OFF WITH SILT FENCE PER THE APPROPRIATE SPECIFICATIONS AND DETAILS. THE OPERATOR SHALL INITIATE STABILIZATION MEASURES AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
- ENHANCE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS APPLICABLE DURING PHASE 2 OF CONSTRUCTION.



## LEDGED FOR EROSION CONTROL **DURING CONSTRUCTION**

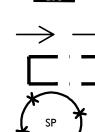
CONSTRUCTION LIMIT LINE PHASE 2 (LOD) \_ \_ \_ SILT FENCE

STABILIZED CONSTRUCTION

STONE OUTLET SEDIMENT TRAP

ORANGE CONSTRUCTION FENCE SLOPE MATTING

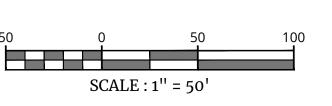
ENTRANCE



**0**7070

— TEMPORARY SWALE **TEMPORARY SEDIMENT BASIN** MATERIAL STOCKPILE

CHECK DAM



# GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

#### MCNY-SOIL-NOTE-1000

- NO TREE REMOVAL SHALL OCCUR FROM APRIL I TO SEPTEMBER 30, TO MITIGATE POTENTIAL IMPACTS TO BAT SPECIES.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL OR AS AMENDED.
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1).
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
- IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.
- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEOUATE VEGETATIVE GROUND COVER. SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- . CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- 5. ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS
- A RESULT OF CONSTRUCTION OF THE PROJECT. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD, SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCITON MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY. 21. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES.
- 2. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION\*\* AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL.

\*FINAL STABILIZATION - MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIP-RAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT. MAINTENANCE PLAN DURING CONSTRUCTION:

INSPECTION AND MAINTENANCE SHALL BE PERFORMED IN CONFORMANCE WITH GP-0-15-002 OR AS AMENDED. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE

CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED AND INSTALLED FOR THE PROJECT. THE SEDIMENT TRAPS WILL BE CLEANED OUT WHEN THE LEVEL OF SEDIMENT REACHES 25% OF ITS' CAPACITY. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES APPROXIMATELY 6" DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. ALL SEEDED AREAS WILL BE FERTILIZED, RE-SEEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE LANDSCAPE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

NOTE: DURING THE CONSTRUCTION OF A PHASE, EACH SUBSEQUENT PHASE WILL HAVE REACHED FINAL STABILIZATION BEFORE INITIATING THE NEXT PHASE.

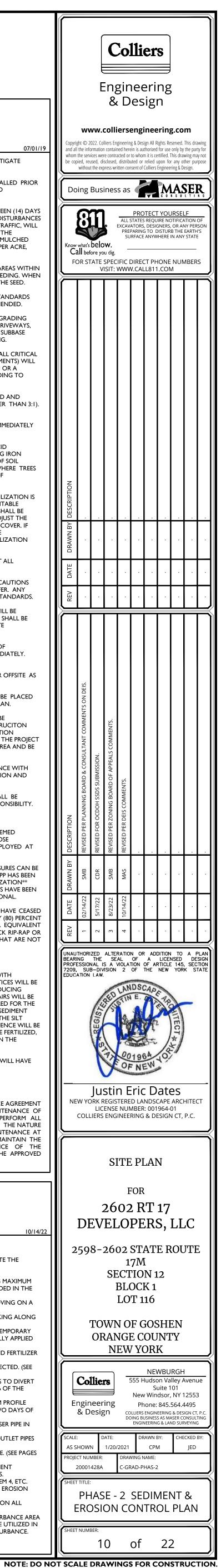
MAINTENANCE AGREEMENT NOTE:

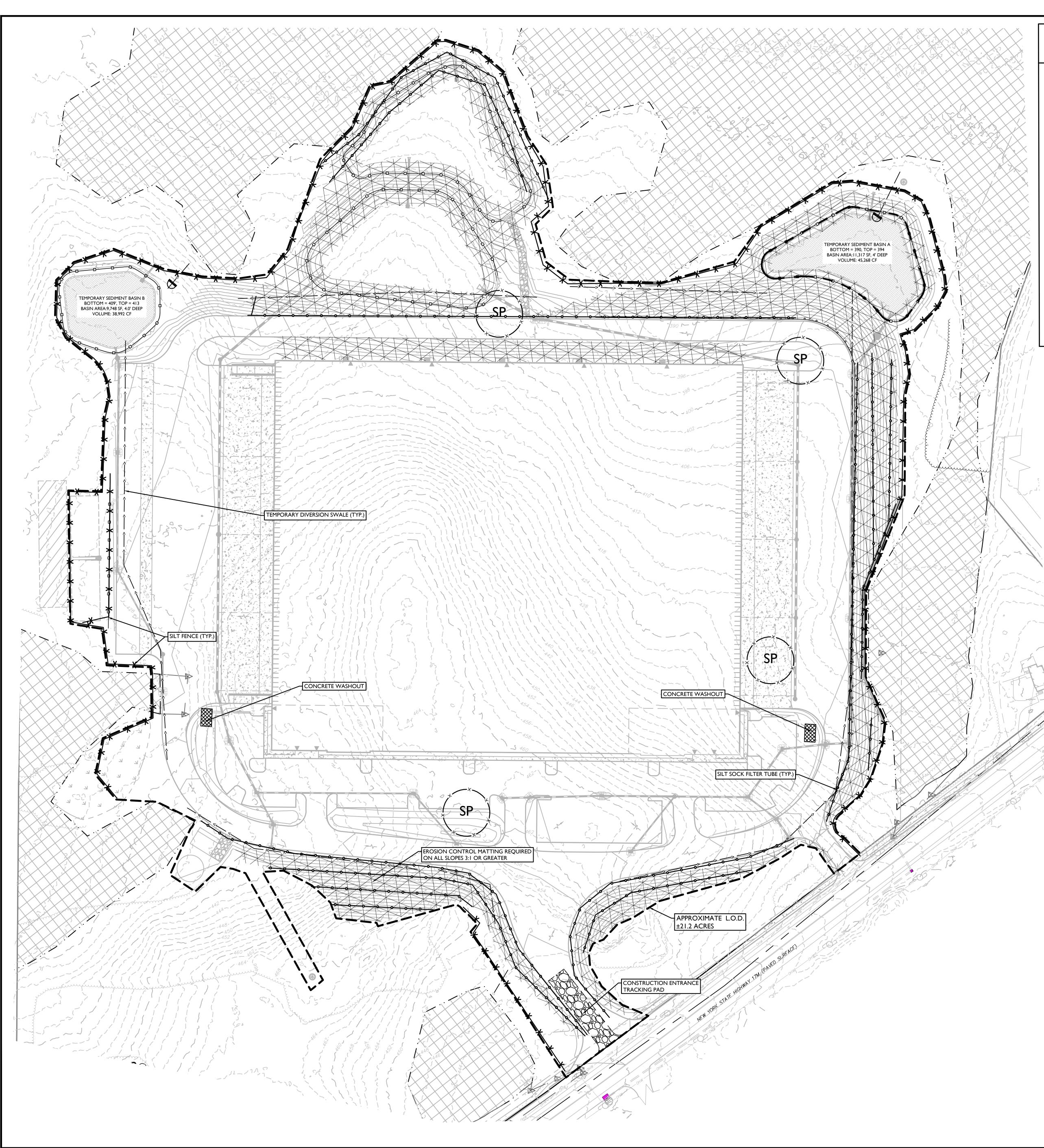
THE OWNER/APPLICANT SHALL ENTER INTO AN ENFORCEABLE MAINTENANCE AGREEMENT WITH THE MUNICIPALITY (IF AN MS4. COMMUNITY) RELATED TO MAINTENANCE OF STORMWATER FACILITIES. THE OWNER/APPLICANT IS RESPONSIBLE TO PERFORM ALL REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE MUNICIPALITY TO PERFORM MAINTENANCE AT THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER, MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.

# ENHANCED EROSION AND SEDIMENT CONTROL PLAN

THE PHASED EROSION AND SEDIMENT CONTROL PLAN SHALL INCORPORATE THE FOLLOWING ENHANCED MEASURES

- ENLARGED SEDIMENT PONDS OR SEDIMENT STORAGE TRAPS UTILIZING MAXIMUM PRACTICABLE AREA IN EXCESS OF THE MINIMUM AMOUNT RECOMMENDED IN THE
- NYSDEC "BLUEBOOK" APPLY SLOPE PROTECTION MEASURES WITHIN 3 DAYS AFTER EARTHMOVING ON A PARTICULAR SLOPE IS COMPLETE.
- INSTALL REINFORCED SILT FENCE WITH HAY BALES OR SILT SOCK BACKING ALONG WETLANDS OR OTHER SENSITIVE AREAS INSTALL BONDED FIBER MATRIX HYDRAULICALLY APPLIED MULCH AS TEMPORARY
- STABILIZATION (HAY/STRAW MULCH AND UNBOUNDED HYDRAULICALLY APPLIED MULCH ARE NOT ACCEPTABLE) INSTALL FLEXIBLE GROWTH MEDIUM WITH SEED, SOIL AMENDMENT AND FERTILIZER
- TO SEEK FINAL STABILIZATION. PERFORM EQUIPMENT (CAT) TRACKING FOR BARE SLOPES TO BE PROTECTED. (SEE PAGE 4.56 OF THE "BLUEBOOK")
- INSTALL SLOPE CREST PROTECTION (PERIMETER DIKE/SWALE) MEASURES TO DIVERT FLOW FROM GOING DOWN THE NEWLY GRADED SLOPE (SEE PAGE 3.36 OF THE "BLUEBOOK")
- INSTALL GEOSYNTHETIC TURF REINFORCEMENT MATS AVAILABLE FROM PROFILE PRODUCTS OR EQUAL IN TEMPORARY DIVERSION DITCHES WITHIN TWO DAYS OF CONSTRUCTION TO STABILIZE THE DITCH.
- INSTALL FLOATING WATER SKIMMERS CONNECTED TO THE OUTLET RISER PIPE IN SEDIMENT PONDS.
- INSTALL SEDIMENT FILTER BAGS ON THE DOWNSTREAM END OF THE OUTLET PIPES (SEE PAGE 5.16 OF THE "BLUEBOOK"). DESIGN SEDIMENT PONDS TO MAXIMIZE THE SEDIMENT RESIDENCE TIME. (SEE PAGES
- 5.19 TO 5.41 OF THE BLUEBOOK). ADDRESS DISPOSAL OR STORAGE OF SEDIMENTS CLEANED FROM SEDIMENT
- CONTROL DEVICES, SEDIMENT PONDS, DITCHES AND DRAINAGE INLETS. STABILIZED CONSTRUCTION ACCESS ROAD WITH CRUSHED STONE, ITEM 4, ETC. ASSIGN A DEDICATED AND TRAINED CREW TO MAINTAIN AND REPAIR EROSION
- AND SEDIMENT CONTROL MEASURES DAILY. INSTALL HYDROSEAD & EROSION AND SEDIMENT CONTROL MATTING ON ALL
- DISTURBED SLOPES 3H: IV OR GRATER. FOLLOW NYSDEC GUIDELINES WHICH LIMIT THE MAXIMUM SOIL DISTURBANCE AREA TO 18 ACRES AT ANY GIVEN TIME. TEMPORARY STABILIZATION MUST BE UTILIZED IN INACTIVE AREA TO MANAGE THE AMOUNT OF ACTIVE OPEN SOIL DISTURBANCE.



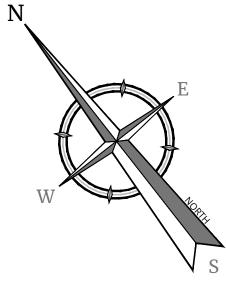


# PHASE 3 CONSTRUCTION SEQUENCE

- CONSTRUCT REMAINING ROADS, DRIVES, OUT BUILDINGS, PARKING AREAS AND REMAINING UTILITIES.
- CONSTRUCT THE INFILTRATION BASINS NORTH OF THE PROPOSED BUILDING. THE DRAINAGE SYSTEM TRIBUTARY TO THESE BASINS SHALL BE CLEANED PRIOR TO DISCHARGE INTO THE BASINS.
- CONSTRUCT CONCRETE CURB ISLANDS AND TOPSOIL/HAY/SEED LAWN AREAS.
- CONSTRUCT TRAILER LOADING DOCKS AND DOLLY PADS. INSTALL TOP COURSE PAVEMENT AS APPLICABLE.
- SEDIMENT BASINS A & B CAN BE CONVERTED TO BIORETENTION BASINS ONCE THE UPSTREAM AREAS HAVE BEEN STABILIZED TO PREVENT SEDIMENTATION AND CORRUPTION OF THE BIORETENTION MEDIA. ALL REMAINING OPEN SOIL AREAS SHALL BE STABILIZED WITH HAY, SEED AND OR
- MATTING AS SHOWN ON THE PLANS. THE PROJECT SITE MUST MEET FINAL STABILIZATION CRITERIA PRIOR TO REMOVING ALL EROSION AND SEDIMENT CONTROL DEVICES AND CLOSING OUT THE PROJECT. LITTER AND CONSTRUCTION DEBRIS SHALL BE REMOVED AS PRACTICAL

THROUGHOUT THE LIFE OF THE PROJECT.

- O <u>FINAL</u> <u>STABILIZATION</u> MEANS THAT ALL SOIL DISTURBANCE ACTIVITIES HAVE CEASED AND A UNIFORM, PERENNIAL VEGETATIVE COVER WITH A DENSITY OF EIGHTY (80) PERCENT OVER THE ENTIRE PERVIOUS SURFACE HAS BEEN ESTABLISHED; OR OTHER EQUIVALENT STABILIZATION MEASURES, SUCH AS PERMANENT LANDSCAPE MULCHES, ROCK RIPRAP OR WASHED/CRUSHED STONE HAVE BEEN APPLIED ON ALL DISTURBED AREAS THAT ARE NOT COVERED BY PERMANENT STRUCTURES, CONCRETE OR PAVEMENT.
- UPON FINAL STABILIZATION BEING MET, THE CONTRACTOR SHALL CLEAR DRAINAGE PIPES AND STRUCTURES OF ANY SEDIMENT WHICH MAY HAVE ACCUMULATED. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED. AS MAY BE NECESSARY, REOUIRED AND/OR REOUESTED BY AUTHORITIES. TO PREVENT THE INCIDENTAL DISCHARGE OF SILT LADEN RUNOFF FROM ENTERING A WATER COURSE OR A DRAINAGE SYSTEM. THE GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES STATES THAT IT IS UNLAWFUL FOR ANY PERSON TO CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS.
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#### LEGEND FOR EROSION CONTROL DURING CONSTRUCTION

CONSTRUCTION LIMIT LINE SILT SOCK

STORM INLET SEDIMENT TRAP

STABILIZED CONSTRUCTION

STONE OUTLET SEDIMENT TRAP



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#### **GENERAL SOIL EROSION AND** SEDIMENT CONTROL NOTES

MCNY-SOIL-NOTE-1000

- NO TREE REMOVAL SHALL OCCUR FROM APRIL I TO SEPTEMBER 30, TO MITIGATE POTENTIAL IMPACTS TO BAT SPECIES.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS FOR DISTURBANCES LESS THAN FIVE (5) ACRES AND SEVEN (7) DAYS FOR DISTURBANCES GREATER THAN FIVE (5) ACRES, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCHING IS REQUIRED ON ALL SEEDING. WHEN HYDROSEEDING, MULCH SHALL NOT BE INCLUDED IN THE TANK WITH THE SEED.
- ALL WORK TO BE DONE IN ACCORDANCE WITH THE 2016 NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL OR AS AMENDED.
- A SUBBASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS TO STABILIZE STREETS, ROADS, DRIVEWAYS, AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUBBASE SHALL BE INSTALLED WITHIN FIVE (5) DAYS OF THE PRELIMINARY GRADING.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING. ALL CRITICAL AREAS SUBJECT TO EROSION (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO STATE STANDARDS.
- ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION CONTINUES (I.E. SLOPES GREATER THAN 3:1)
- THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS REQUIRES THE INSTALLATION OF A STONE PAD, AT ALL CONSTRUCTION DRIVEWAYS, IMMEDIATELY AFTER INITIAL SITE DISTURBANCE. IN ACCORDANCE WITH THE STANDARD FOR MANAGEMENT OF HIGH ACID

#### PRODUCING SOILS. ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF TWELVE (12) INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION. AREAS WHERE TREES OR SHRUBS ARE TO BE PLANTED SHALL BE COVERED WITH A MINIMUM OF TWENTY-FOUR (24) INCHES OF SOIL HAVING A PH OF 5 OR MORE.

- AT THE TIME THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT IT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
- CONDUIT OUTLET PROTECTION MUST BE REVIEWED & SUPPLEMENTED AT ALL OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
- UNFILTERED DEWATERING IS NOT PERMITTED. TAKE ALL NECESSARY PRECAUTIONS DURING ALL DEWATERING OPERATIONS TO MINIMIZE SEDIMENT TRANSFER. ANY DEWATERING METHODS USED MUST BE IN ACCORDANCE WITH STATE STANDARDS.
- SHOULD THE CONTROL OF DUST AT THE SITE BE NECESSARY, THE SITE WILL BE SPRINKLED UNTIL THE SURFACE IS WET, TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED OR MULCH SHALL BE APPLIED IN ACCORDANCE WITH STATE STANDARDS FOR EROSION CONTROL.
- ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR ONTO PUBLIC RIGHT-OF-WAY WILL BE REMOVED IMMEDIATELY. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR ANY EROSION AND SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS
- A RESULT OF CONSTRUCTION OF THE PROJECT. STOCKPILE AND STAGING LOCATIONS DETERMINED IN THE FIELD. SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE ACCORDING TO THE CERTIFIED PLAN.
- 18. CONCRETE WASHOUT, DUMPSTER, & STAGING AREA LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED AT THE PRE-CONSTRUCITON MEETING. THEY SHALL BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE AND STAGING AREAS AND SHALL BE USED PRIOR TO EXITING THE PROJECT SITE. THE LOCATION SHALL BE IN A PRACTICAL, CLEARLY DELINEATED, AREA AND BE MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SOIL STOCKPILES ARE TO BE TEMPORARILY STABILIZED IN ACCORDANCE WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 0. ALL PERMANENT SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED BY THE PROPERTY OWNER, AND SHALL BECOME THEIR RESPONSIBILITY.
- I. PAVEMENT AREAS ARE TO BE KEPT CLEAN AT ALL TIMES. 2. DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL SEDIMENT BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE MUNICIPAL ENGINEER.
- 3. ALL TEMPORARY, STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES CAN BE REMOVED, WHEN ALL CONSTRUCTION ACTIVITY IDENTIFIED IN THE SWPPP HAS BEEN COMPLETED, ALL AREAS OF DISTURBANCE HAVE ACHIEVED FINAL STABILIZATION\*\* AND ALL POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE SWPPP AND ARE OPERATIONAL.

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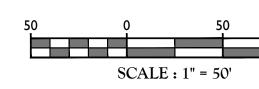
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WITH THE MUNICIPALITY (IF AN MS4. COMMUNITY) RELATED TO MAINTENANCE OF stormwater facilities. The owner/applicant is responsible to perform all REQUIRED MAINTENANCE BOTH DURING CONSTRUCTION AND LONG-TERM. THE NATURE OF THE AGREEMENT IS TO ALLOW THE MUNICIPALITY TO PERFORM MAINTENANCE A THEIR OPTION SHOULD THE OWNER/APPLICANT FAIL TO ADEQUATELY MAINTAIN THE SYSTEM AS DETERMINED BY THE MUNICIPAL ENGINEER. MAINTENANCE OF THE STORMWATER SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED SWPPP AND DETAIL SHEETS.

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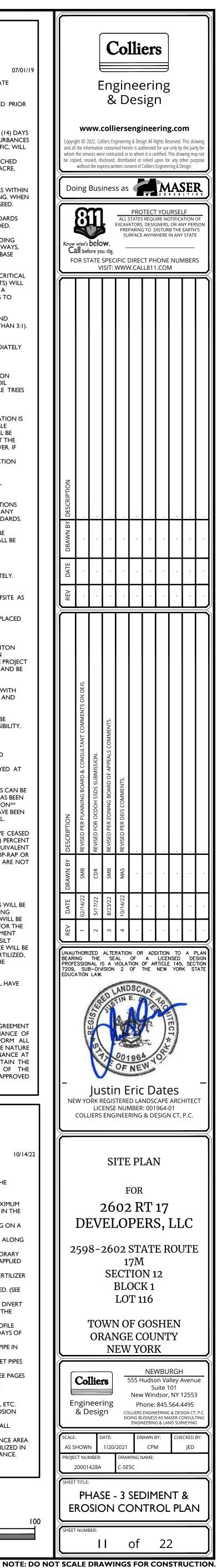


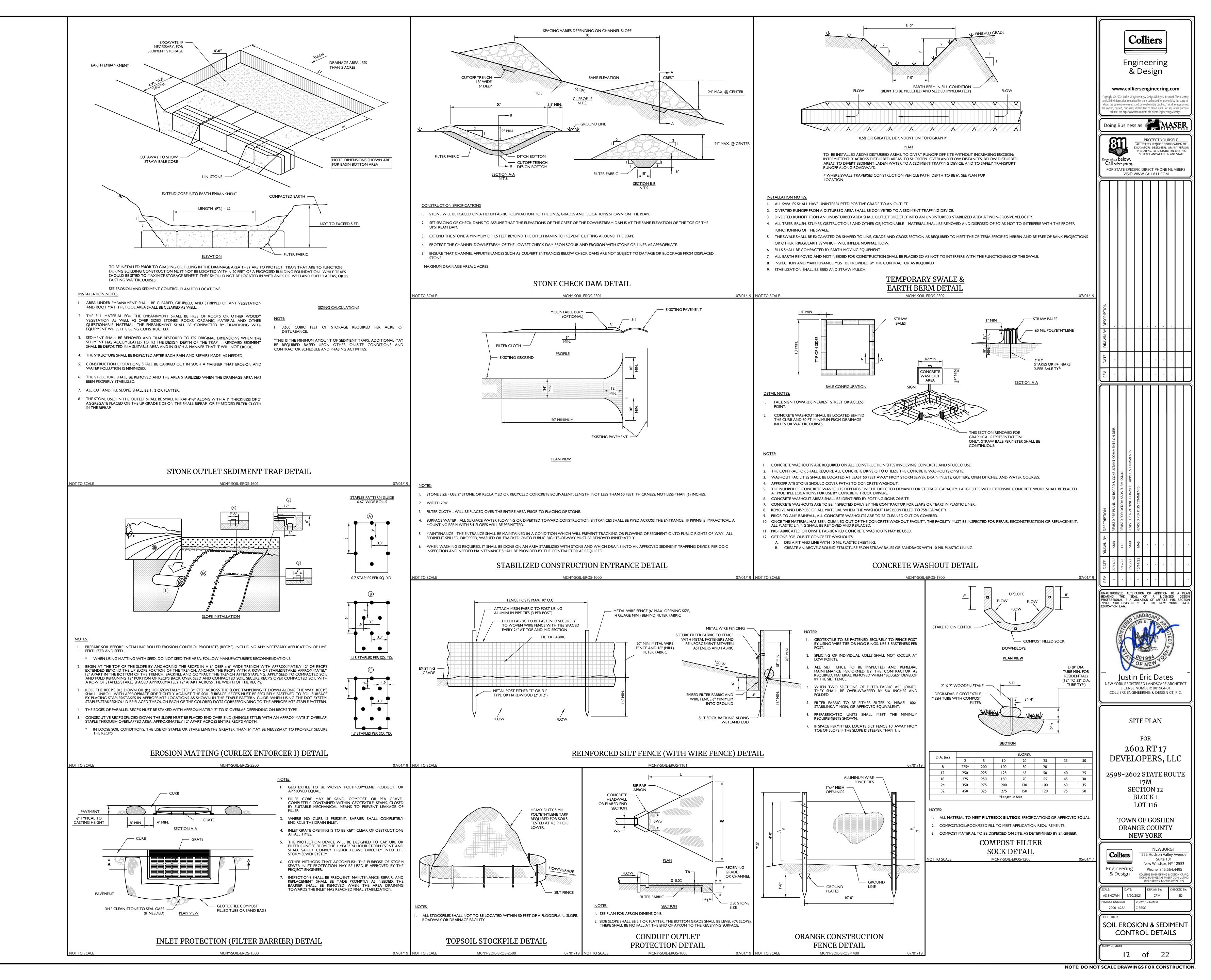
-----> ---- TEMPORARY SWALE TEMPORARY SEDIMENT BASIN

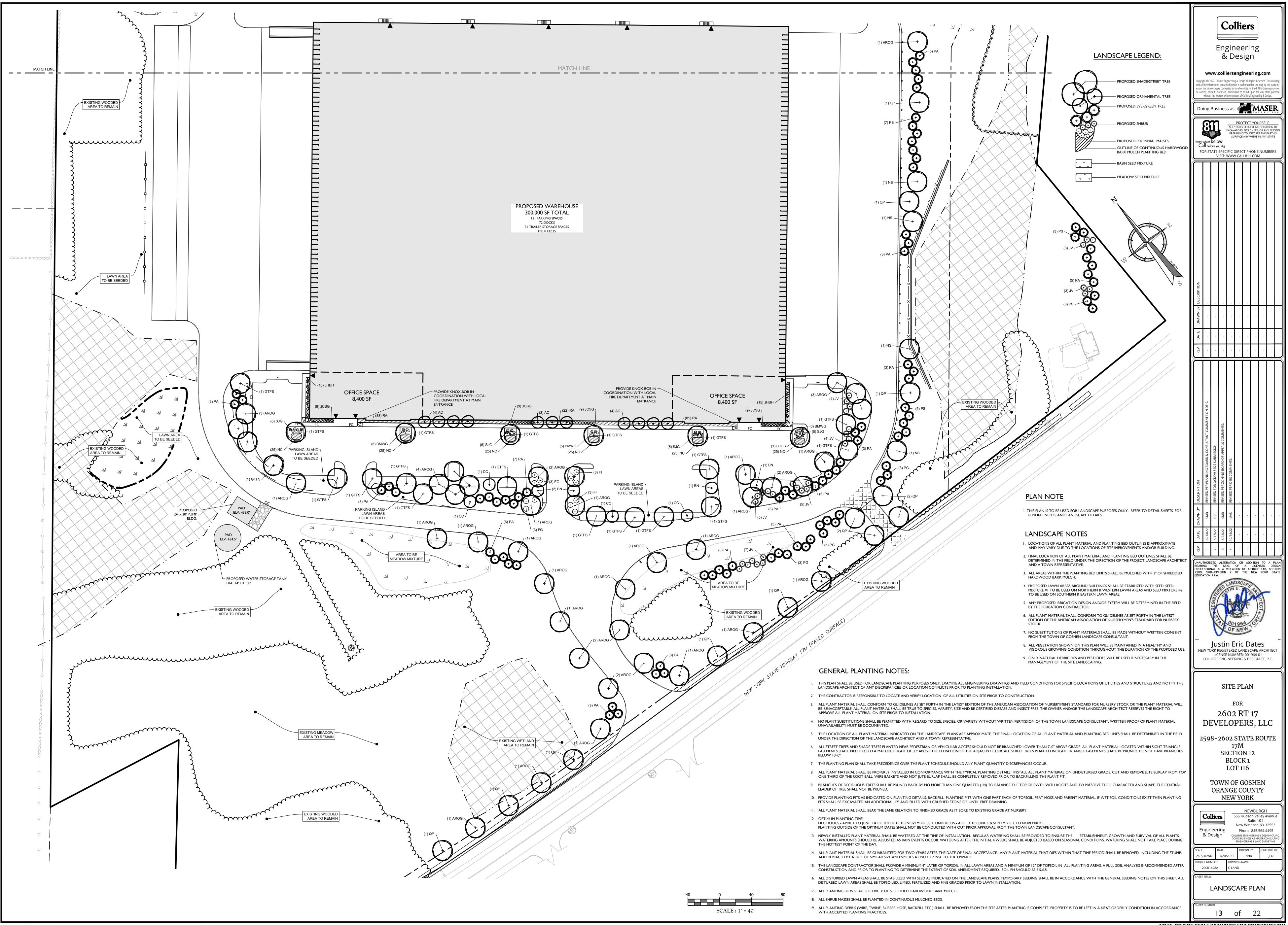
ENTRANCE

MATERIAL STOCKPILE

CHECK DAM







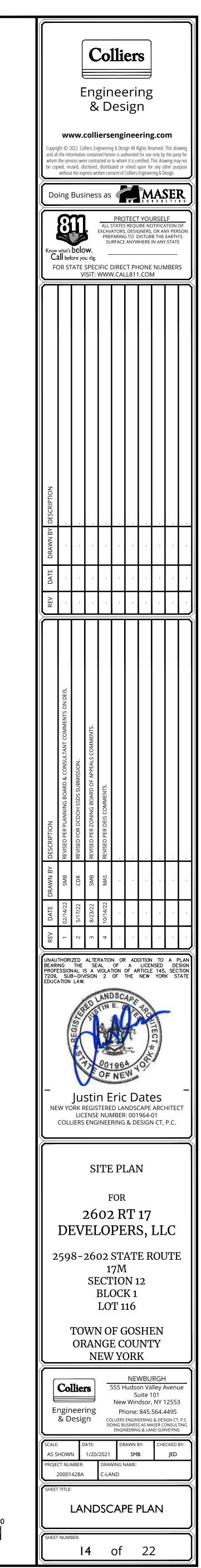


| KEY  | QTY. | BOTANICAL NAME                             | COMMON NAME             | HEIGHT      | CALIPER               | SPREAD  | ROOT            | REMARKS                      |
|------|------|--|-------------------------|-------------|-----------------------|---------|-----------------|------------------------------|
| SHAE | E/ST | REET TREES                                 | ·                       | · · · · · · |                       |         | •               |                              |
| AROG | 39   | ACER RUBRUM 'OCTOBER GLORY'                | OCTOBER GLORY RED MAPLE |             | 3" - 3 <u>1</u> "     |         | B & B           | STRAIGHT LEADER/SYM. BRANCHI |
| GTFS | 19   | GLEDITSIA TRIACANTHOS F. INERMIS 'SKYLINE' | SKYLINE HONEY LOCUST    |             | 3" - 3 <del>1</del> " |         | B & B           | STRAIGHT LEADER/SYM. BRANCHI |
| NS   | 4    | NYSSA SYLVATICA                            | BLACKGUM                |             | 3" - 3 <del>1</del> " |         | B & B           | STRAIGHT LEADER/SYM. BRANCHI |
| QP   | 12   | QUERCUS PALUSTRIS                          | PIN OAK                 |             | 3" - 3 <u>1</u> "     |         | B & B           | STRAIGHT LEADER/SYM. BRANCHI |
| EVER | GRE  | EN TREES                                   |                         |             |                       |         |                 |                              |
| JV   | 31   | JUNIPERUS VIRGINIANA                       | EASTERN RED CEDAR       | 8'-10'      |                       |         | B & B           | DENSE / TYP. SPECIES HABIT   |
| PA   | 59   | PICEA ABIES                                | NORWAY SPRUCE           | 8'-10'      |                       |         | B & B           | DENSE / TYP. SPECIES HABIT   |
| PG   | 11   | PICEA GLAUCA                               | WHITE SPRUCE            | 8'-10'      |                       |         | B & B           | DENSE / TYP. SPECIES HABIT   |
| PS   | 18   | PINUS STROBUS                              | EASTERN WHITE PINE      | 8'-10'      |                       |         | B & B           | DENSE / TYP. SPECIES HABIT   |
| ORN/ | MEN  | ITAL TREES                                 |                         |             |                       |         |                 |                              |
| AC   | 11   | AMELANCHIER LAEVIS                         | SERVICEBERRY            | 8'-10'      |                       |         | CONT.           | MULTISTEM/TYP. SPECIES HABI  |
| BN   | 4    | BETULA NIGRA                               | RIVER BIRCH             | 8'-10'      |                       |         | CONT.           | MULTISTEM/TYP. SPECIES HABI  |
| сс   | 4    | CERCIS CANADENSIS                          | EASTERN REDBUD          | 8'-10'      | 1 1/2" - 1 3/4"       |         | CONT.           | TYPICAL SPECIES HABIT        |
| SHRL | JBS  | •  |                         |             |                       |         |                 |                              |
| BMWG | 16   | BUXUS MICROPHYLLA 'WINTER GEM'             | WINTER GEM BOXWOOD      | 18"-24"     |                       |         | CONT.           | TYPICAL SPECIES HABIT        |
| FI   | 6    | FORSYTHIA X INTERMEDIA 'LYNWOOD'           | LYNWOOD FORSYTHIA       | 3'-4'       |                       |         | CONT.           | TYPICAL SPECIES HABIT        |
| FG   | 6    | FOTHERGILLA GARDENII                       | DWARF FOTHERGILLA       | 18"-24"     |                       |         | CONT.           | TYPICAL SPECIES HABIT        |
| JCSG | 36   | JUNIPERUS CHINENSIS 'SEA GREEN'            | SEA GREEN JUNIPER       | 24"-30"     |                       |         | CONT.           | TYPICAL SPECIES HABIT        |
| јнвн | 30   | JUNIPERUS HORIZONTALIS 'BAR HARBOR'        | BAR HARBOR JUNIPER      |             |                       | 18"-24" | CONT.           | TYPICAL SPECIES HABIT        |
| RA   | 191  | RHUS AROMATICA 'GRO-LOW'                   | FRAGRANT SUMAC          |             |                       |         | 1 GAL.<br>CONT. | CLUMPS, 36" O.C.             |
| SJG  | 22   | SPIRAEA JAPONICA 'GOLD MOUND'              | GOLD MOUND SPIREA       | 18"-24"     |                       |         | CONT.           | TYPICAL SPECIES HABIT        |
| PERE | NNIA | LS   |                         |             |                       |         |                 |                              |
|      | 150  | NEPETA CATARIA                             | CATMINT                 |             |                       |         | 1 GAL.<br>CONT. | CLUMPS, 24" O.C.             |

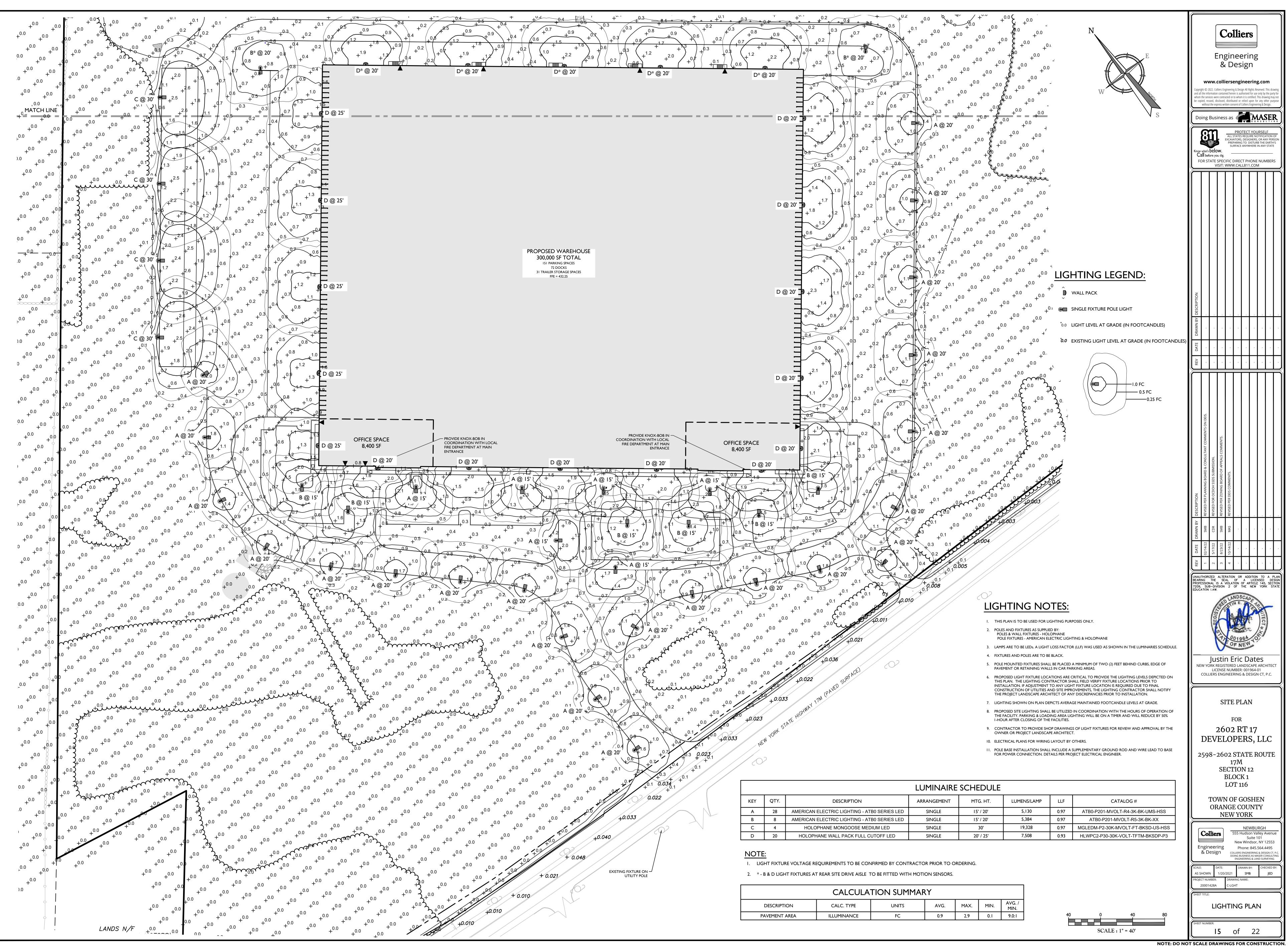
|      | BIORETENTION AREA PLANTING SCHEDULE                  |                                 |                    |         |            |            |               |                       |  |  |  |  |
|------|--|---------------------------------|--------------------|---------|------------|------------|---------------|-----------------------|--|--|--|--|
| KEY  | QTY.   | BOTANICAL NAME                  | COMMON NAME        | HEIGHT  | CALIPER    | SPREAD     | ROOT          | REMARKS               |  |  |  |  |
| TREE | S  |                                 | ·                  | ·       |            |            |               |                       |  |  |  |  |
| BN   | <b>3N 5</b> BETULA NIGRA RIVER BIRCH 6'-8' CONT.     |                                 |                    |         | MULTI-STEM |            |               |                       |  |  |  |  |
| AC   | AC 5 AMELANCHIER CANADENSIS SERVICEBERRY 6'-8' CONT. |                                 |                    |         |            | MULTI-STEM |               |                       |  |  |  |  |
| SHRL | SHRUBS   |                                 |                    |         |            |            |               |                       |  |  |  |  |
| AA   | AA   22   ARONIA ARBUTIFOLIRA   RED CHOKEBERRY       |                                 |                    | 24"-30" |            |            | CONT.         | TYPICAL SPECIES HABIT |  |  |  |  |
| CA   | 21   | CLETHRA ALNIFOLIA 'HUMMINGBIRD' | SUMMERSWEET        | 18"-24" |            |            | CONT.         | TYPICAL SPECIES HABIT |  |  |  |  |
| IG   | 44   | ILEX GLABRA                     | INKBERRY           | 18"-24" |            |            | CONT.         | TYPICAL SPECIES HABIT |  |  |  |  |
| SC   | 34   | SAMBUCUS CANADENSIS             | ELDERBERRY         | 18"-24" |            |            | CONT.         | TYPICAL SPECIES HABIT |  |  |  |  |
| VD   | 22   | VIBURNUM DENTATUM               | ARROWWOOD VIBURNUM | 18"-24" |            |            | CONT.         | TYPICAL SPECIES HABIT |  |  |  |  |
| PERE | NNIAL  | S                               |                    |         |            |            |               |                       |  |  |  |  |
| ANA  | 398  | ASTER NOVAE ANGLIAE             | NEW ENGLAND ASTER  |         |            |            | #SP5<br>CONT. | CLUMPS, 24" O.C.      |  |  |  |  |
| DC   | 557  | DESCHAMPSIA CESPITOSA           | TUFTED HAIR GRASS  |         |            |            | #SP4<br>CONT. | CLUMPS, 18" O.C.      |  |  |  |  |
| EP   | 424  | ECHINACEA PURPUREA              | CONEFLOWER         |         |            |            | #SP5<br>CONT. | CLUMPS, 24" O.C.      |  |  |  |  |
| JE   | 936  | JUNCUS EFFUSUS                  | COMMON RUSH        |         |            |            | #SP4<br>CONT. | CLUMPS, 18" O.C.      |  |  |  |  |

# NOTES:

- I. THE QUANTITIES ABOVE ARE FOR BIORETENTION AREA (2D)
- 2. FOR BIORETENTION AREA (2C) MULTIPLY QUANTITIES ABOVE BY 1.45
- 3. WHEN MULTIPLYING, ANY FRACTION OF A PLANT SHALL BE ROUNDED UP.
- 4. REFER TO DETAIL SHEET (18) FOR TYPICAL BIORETENTION PLANTING LAYOUT.

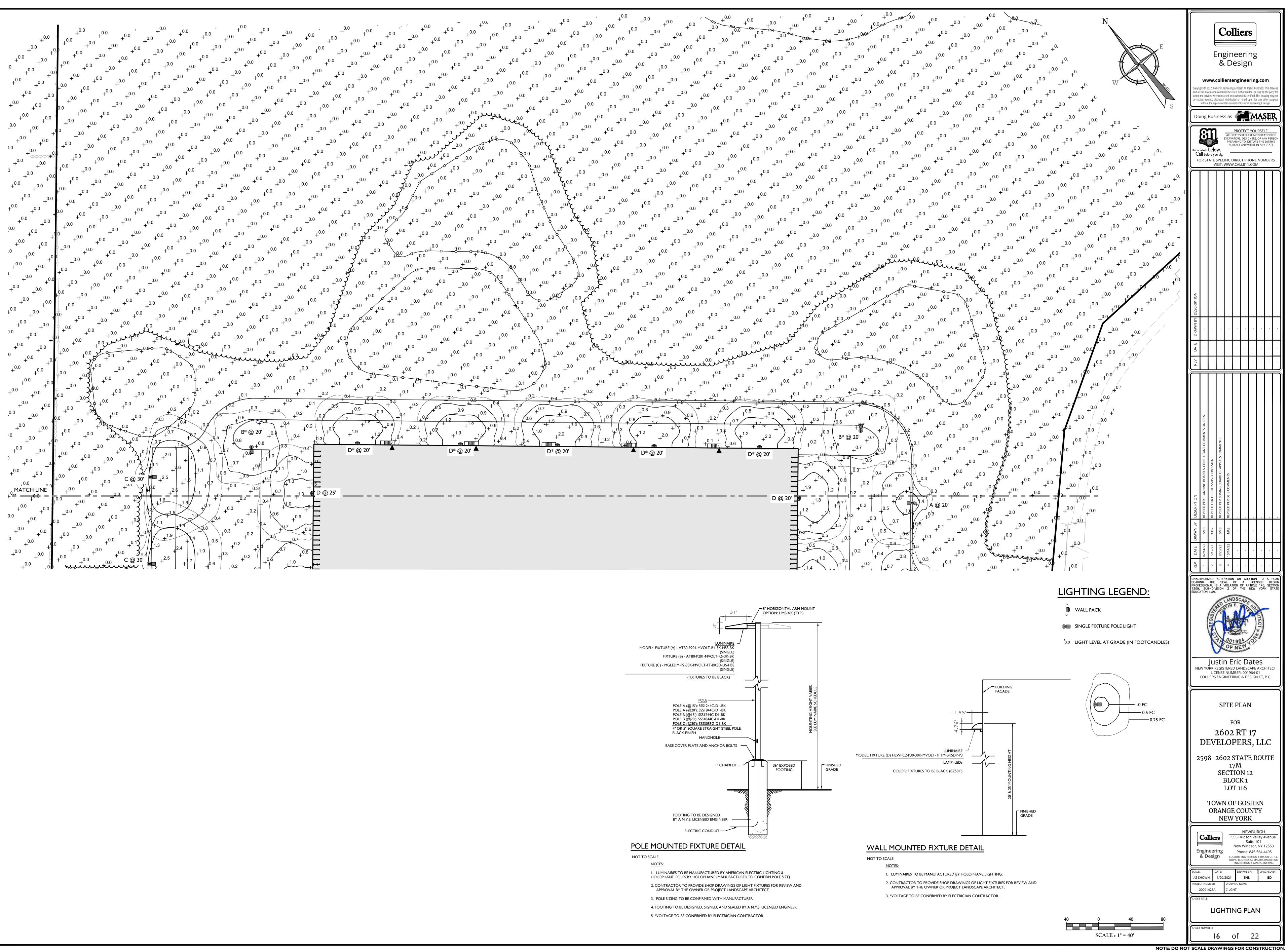


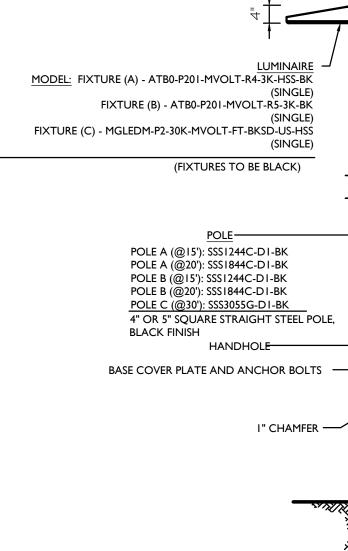
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

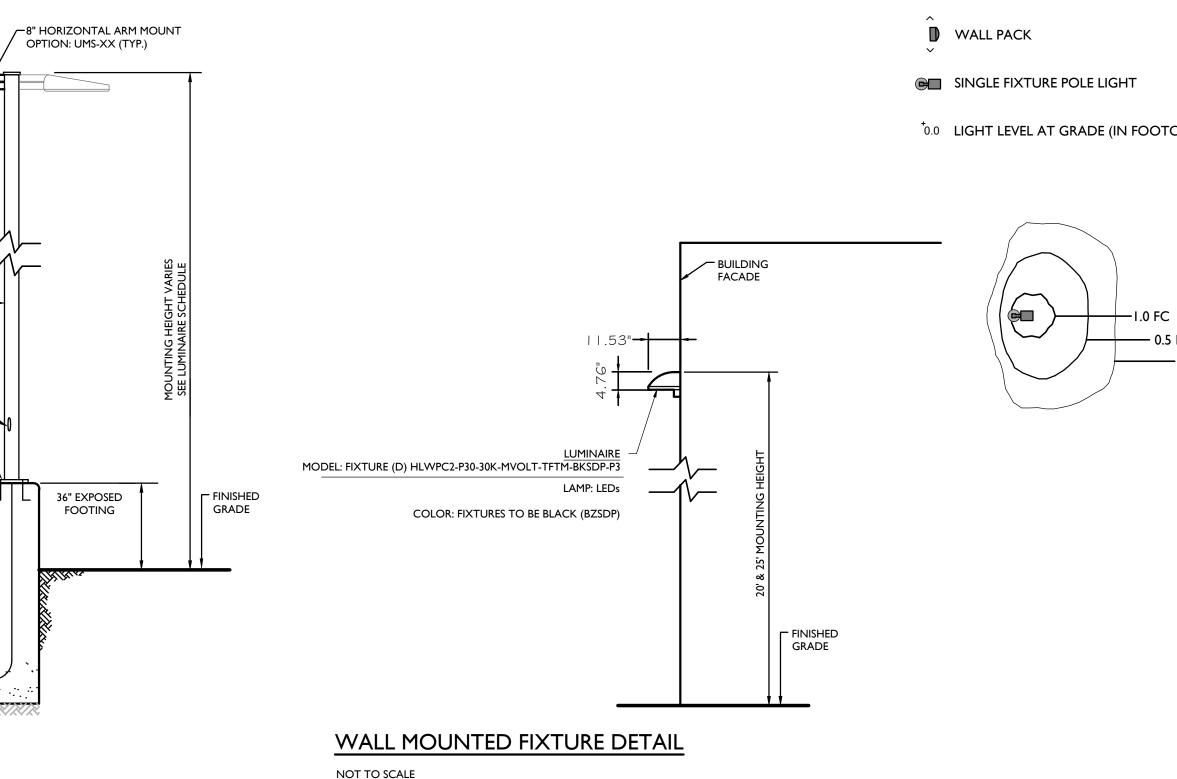


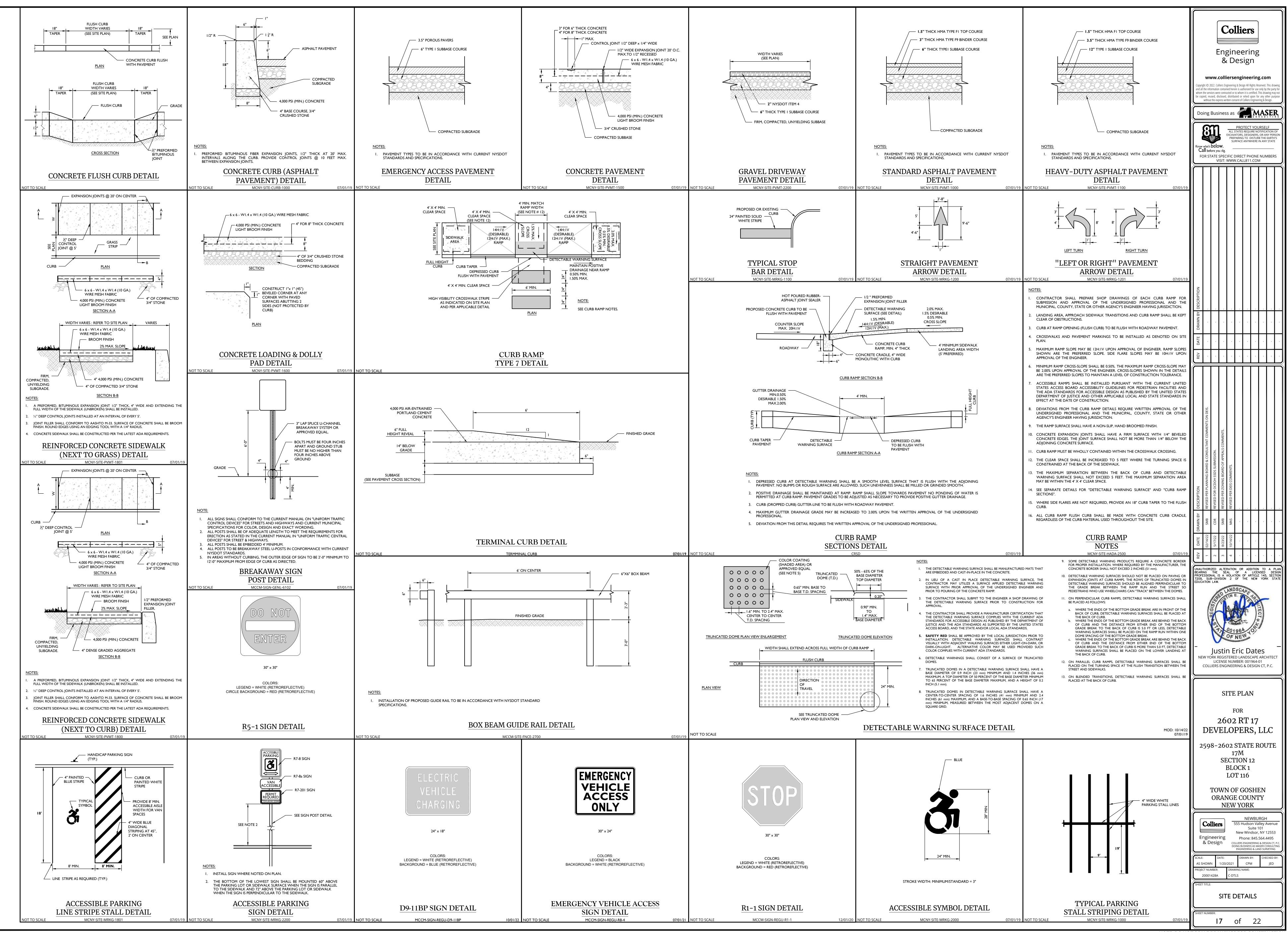
| Y | QTY. | DESCRIPTION                                  | ARRANGEMENT | MTG. HT.  | LUMENS/LAMP | LLF  | CATALOG #                        |
|---|------|--|-------------|-----------|-------------|------|----------------------------------|
|   | 28   | AMERICAN ELECTRIC LIGHTING - ATB0 SERIES LED | SINGLE      | 15' / 20' | 5,130       | 0.97 | ATB0-P201-MVOLT-R4-3K-BK-UMS-HS  |
|   | 8    | AMERICAN ELECTRIC LIGHTING - ATB0 SERIES LED | SINGLE      | 15' / 20' | 5,384       | 0.97 | ATB0-P201-MVOLT-R5-3K-BK-XX      |
|   | 4    | HOLOPHANE MONGOOSE MEDIUM LED                | SINGLE      | 30'       | 19,328      | 0.97 | MGLEDM-P2-30K-MVOLT-FT-BKSD-US-I |
|   | 20   | HOLOPHANE WALL PACK FULL CUTOFF LED          | SINGLE      | 20' / 25' | 7,508       | 0.93 | HLWPC2-P30-30K-VOLT-TFTM-BKSDP-  |

| DESCRIPTION   | CALC. TYPE  | UNITS | AVG. | MAX. | MIN. | AVG. /<br>MIN. |  |  |  |
|---------------|-------------|-------|------|------|------|----------------|--|--|--|
| PAVEMENT AREA | ILLUMINANCE | FC    | 0.9  | 2.9  | 0.1  | 9.0:1          |  |  |  |
|               |             |       |      |      |      |                |  |  |  |

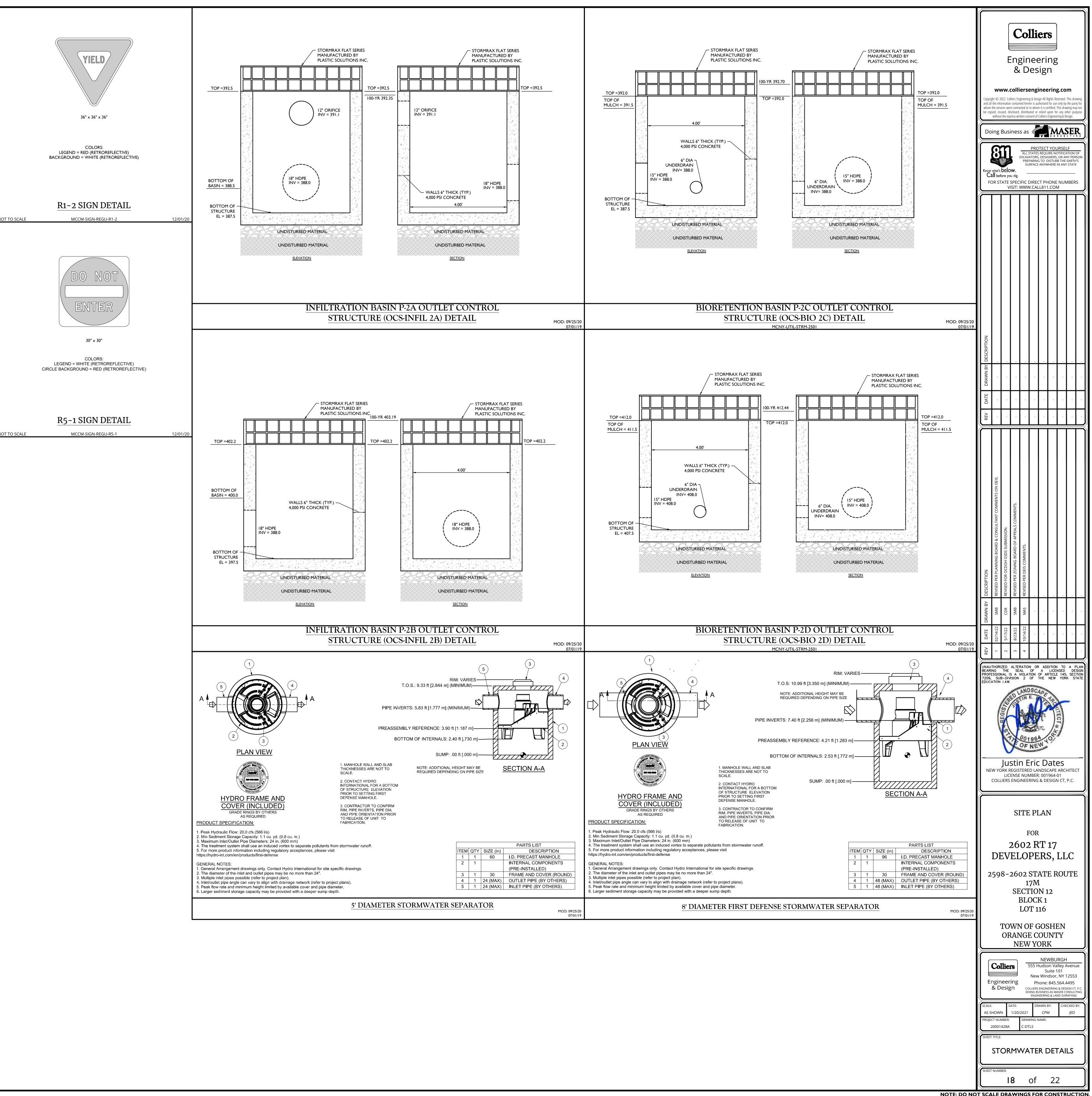




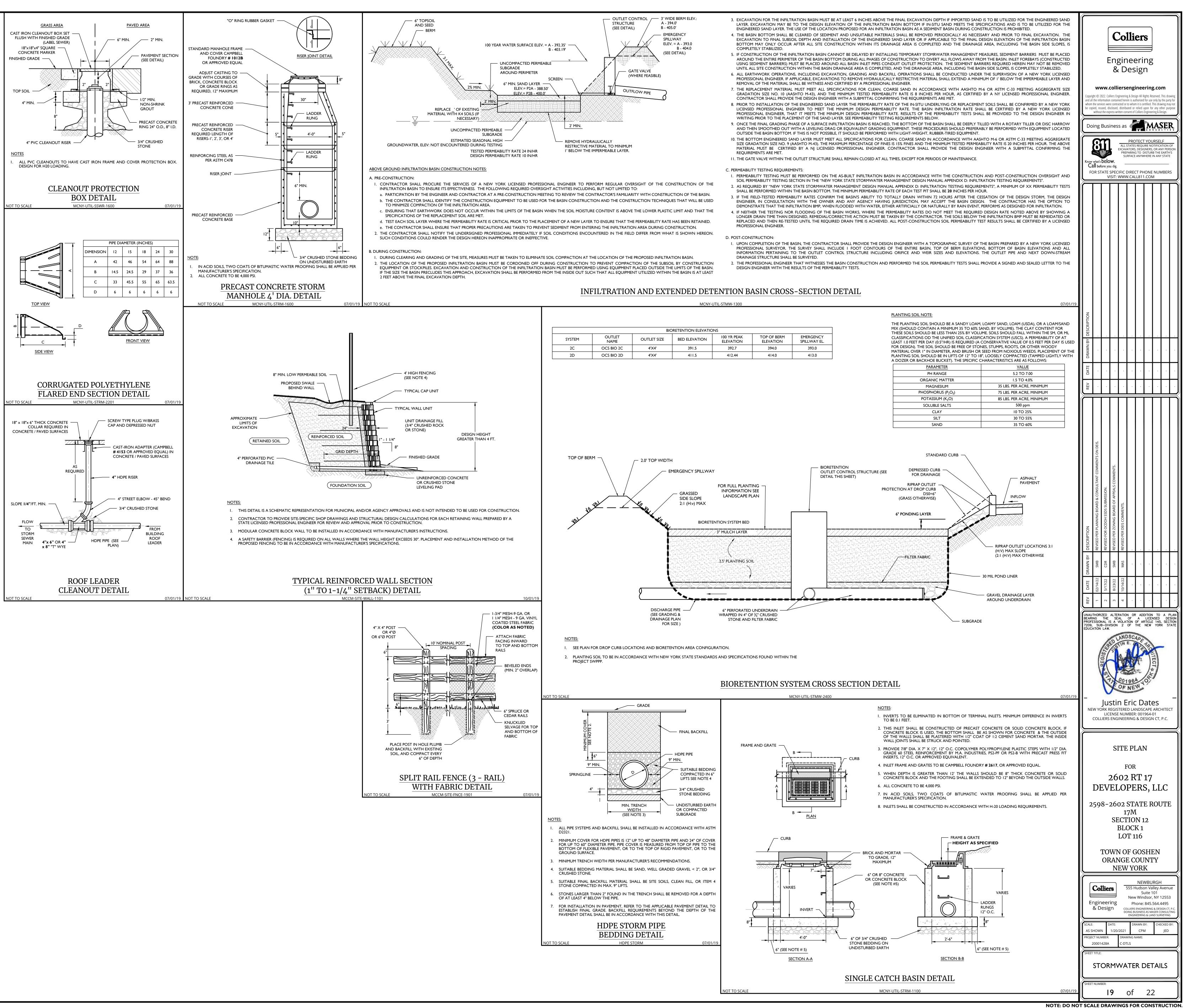




NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION



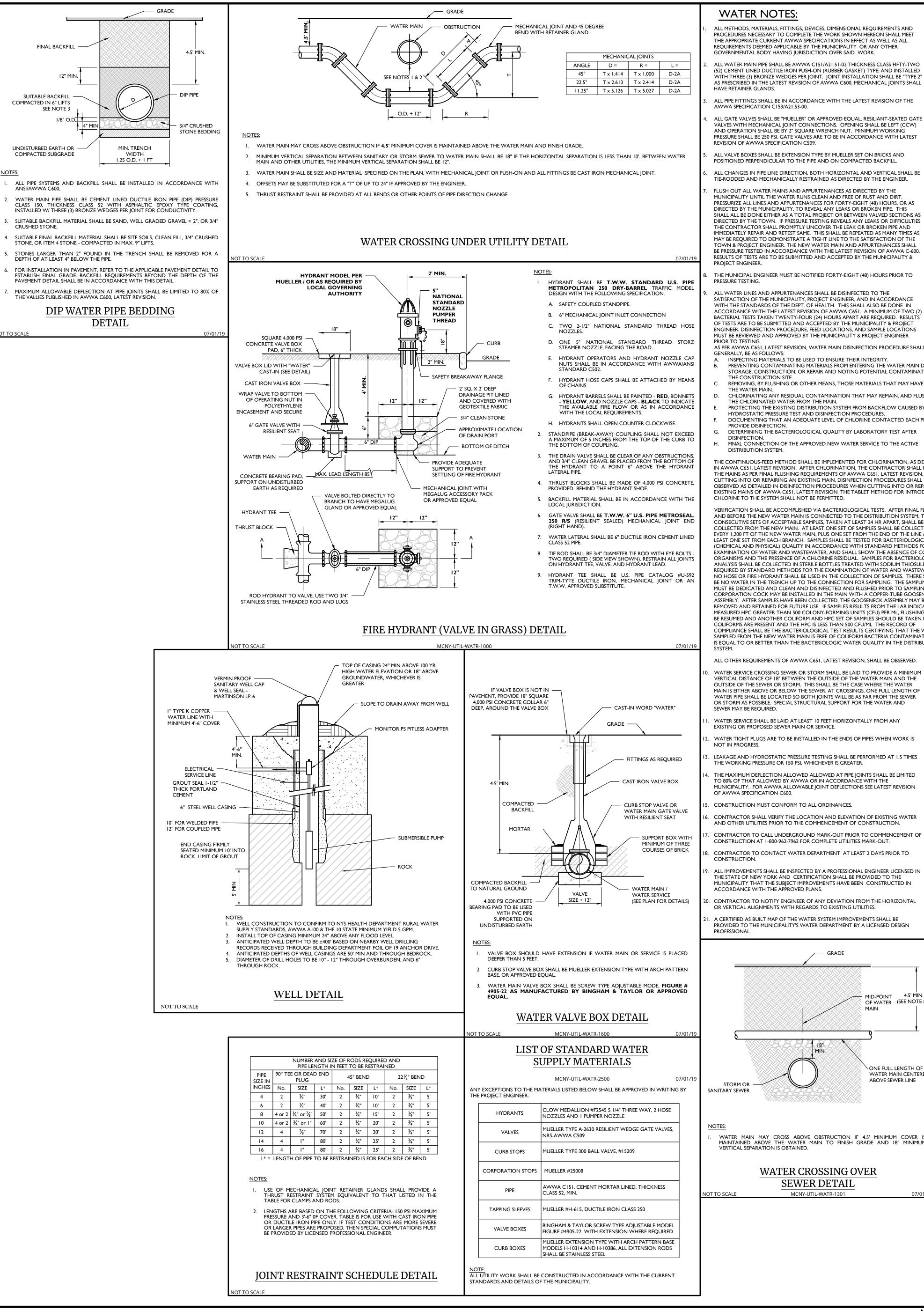
NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

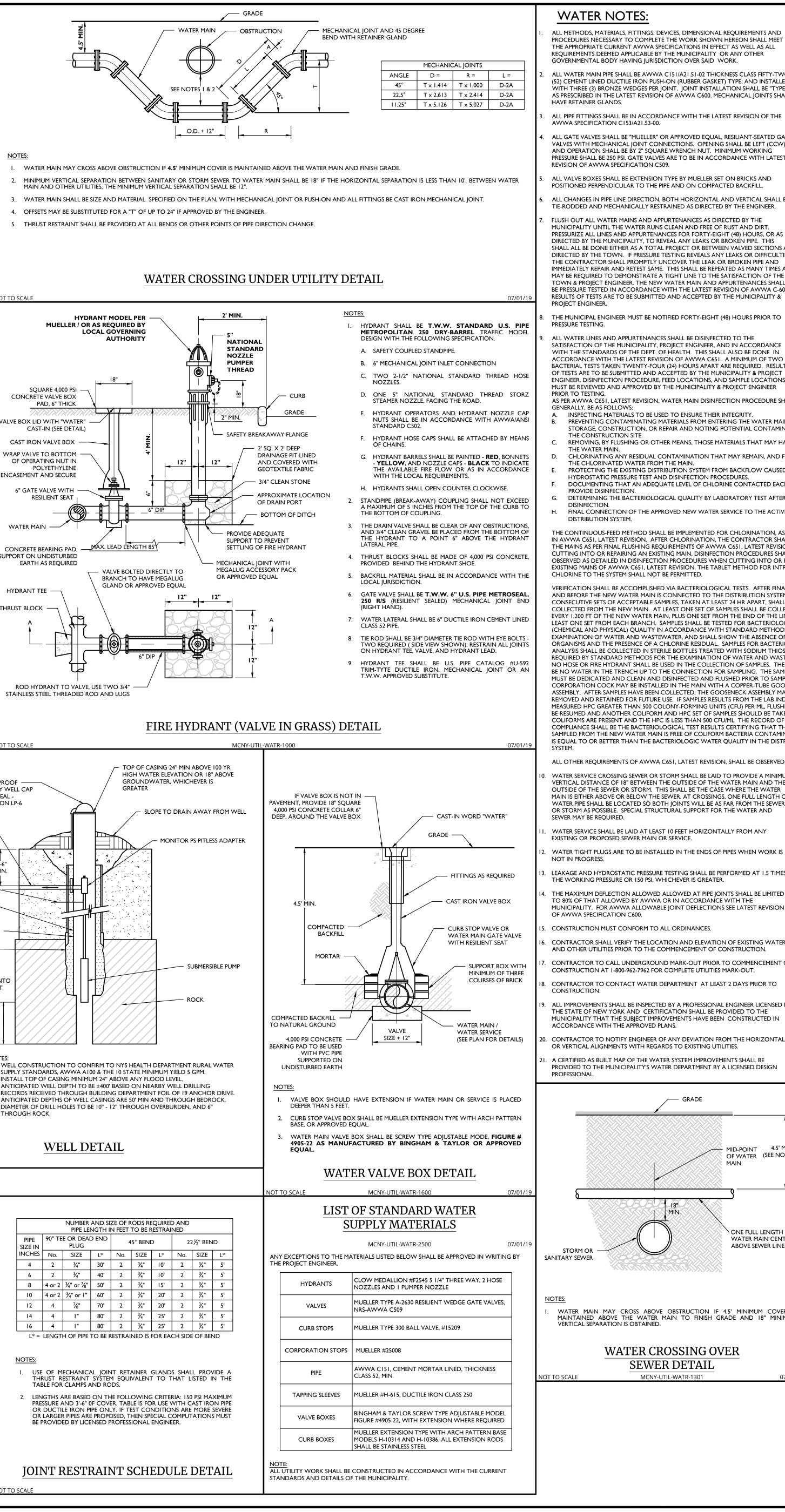


| LET CONTROL 3' WIDE BERM ELEV.:<br>ICTURE A - 394.0'<br>DETAIL) B - 405.0'             | 3. EXCAVATION FOR THE INFILTRATION BASIN MUST BE AT LEAST 6 INCHES ABOVE THE FINAL EXCAVATION DEPTH IF IMPORTED SAND IS TO BE UTILIZED FOR THE ENGI<br>LAYER. EXCAVATION MAY BE TO THE DESIGN ELEVATION OF THE INFILTRATION BASIN BOTTOM IF IN-SITU SAND MEETS THE SPECIFICATIONS AND IS TO BE UTILI<br>ENGINEERED SAND LAYER. THE USE OF THE LOCATION PROPOSED FOR AN INFILTRATION BASIN AS A SEDIMENT BASIN DURING CONSTRUCTION IS PROHIBITED.  |
|--|---|
| EMERGENCY<br>SPILLWAY<br>ELEV. = A - 393.0<br>B - 404.0                                | 4. THE BASIN BOTTOM SHALL BE CLEARED OF SEDIMENT AND UNSUITABLE MATERIALS SHALL BE REMOVED PERIODICALLY AS NECESSARY AND PRIOR TO FINAL EXCA<br>EXCAVATION TO FINAL SUBSOIL DEPTH AND INSTALLATION OF THE ENGINEERED SAND LAYER OR IF APPLICABLE TO THE FINAL DESIGN ELEVATION OF THE INFILTE<br>BOTTOM MAY ONLY OCCUR AFTER ALL SITE CONSTRUCTION WITHIN ITS DRAINAGE AREA IS COMPLETED AND THE DRAINAGE AREA, INCLUDING THE BASIN SI<br>COMPLETELY STABILIZED.  |
| (SEE DETAIL)   | 5. IF CONSTRUCTION OF THE INFILTRATION BASIN CANNOT BE DELAYED BY INSTALLING TEMPORARY STOMRWATER MANAGEMENT MEASURES, SEDIMENT BARRIERS MU<br>AROUND THE ENTIRE PERIMETER OF THE BASIN BOTTOM DURING ALL PHASES OF CONSTRUCTION TO DIVERT ALL FLOWS AWAY FROM THE BASIN. INLET FOREBAYS (C<br>USING SEDIMENT BARRIERS) MUST BE PLACED AROUND ALL BASIN INLET PIPES CONDUIT OUTLET PROTECTION. THE SEDIMENT BARRIERS REQUIRED HEREIN MAY NOT<br>UNTIL ALL SITE CONSTRUCTION WITHIN THE BASIN DRAINAGE AREA IS COMPLETED, AND THE DRAINAGE AREA, INCLUDING THE BASIN SIDE SLOPES, IS COMPLETELY ST |
| — GATE VALVE<br>(WHERE FEASIBLE)   | 6. ALL EARTHWORK OPERATIONS, INCLUDING EXCAVATION, GRADING AND BACKFILL OPERATIONS SHALL BE CONDUCTED UNDER THE SUPERVISION OF A NEW YO<br>PROFESSIONAL ENGINEER. IF APPLICABLE, EXCAVATIONS TO REMOVE HYDRAULICALLY RESTRICTIVE MATERIAL SHALL EXTEND A MINIMUM OF I' BELOW THE IMPERMEABI<br>REMOVAL OF THE MATERIAL SHALL BE WITNESS AND CERTIFIED BY A PROFESSIONAL ENGINEER.   |
|  | 7. THE REPLACEMENT MATERIAL MUST MEET ALL SPECIFICATIONS FOR CLEAN, COARSE SAND IN ACCORDANCE WITH AASHTO M-6 OR ASTM C-33 MEETING AGG<br>GRADATION SIZE NO. 10 (AASHTO M-43), AND THE MINIMUM TESTED PERMEABILITY RATE IS 8 INCHES PER HOUR, AS CERTIFIED BY A NY LICENSED PROFESSION<br>CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A SUBMITTAL CONFIRMING THE REQUIREMENTS ARE MET.  |
|  | 8. PRIOR TO INSTALLATION OF THE ENGINEERED SAND LAYER THE PERMEABILITY RATE OF THE IN-SITU UNDERLYING OR REPLACEMENT SOILS SHALL BE CONFIRMED BY<br>LICENSED PROFESSIONAL ENGINEER TO MEET THE MINIMUM DESIGN PERMEABILITY RATE. THE BASIN INFILTRATION RATE SHALL BE CERTIFIED BY A NEW YC<br>PROFESSIONAL ENGINEER, THAT IT MEETS THE MINIMUM DESIGN PERMEABILITY RATE. RESULTS OF THE PERMEABILITY TESTS SHALL BE PROVIDED TO THE DESIGN<br>WRITING PRIOR TO THE PLACEMENT OF THE SAND LAYER. SEE PERMEABILITY TESTING REQUIREMENTS BELOW.   |
| -  | 9. ONCE THE FINAL GRADING PHASE OF A SURFACE INFILTRATION BASIN IS REACHED, THE BOTTOM OF THE BASIN SHALL BE DEEPLY TILLED WITH A ROTARY TILLER OR D<br>AND THEN SMOOTHED OUT WITH A LEVELING DRAG OR EQUIVALENT GRADING EQUIPMENT. THESE PROCEDURES SHOULD PREFERABLY BE PERFORMED WITH EQUIPMENT<br>OUTSIDE THE BASIN BOTTOM. IF THIS IS NOT POSSIBLE, IT SHOULD BE PERFORMED WITH LIGHT-WEIGHT, RUBBER-TIRED EQUIPMENT.  |
| IIMUM<br>YER.  | 10. THE BOTTOM ENGINEERED SAND LAYER MUST MEET ALL SPECIFICATIONS FOR CLEAN, COARSE SAND IN ACCORDANCE WITH AASHTO M-6 OR ASTM C-33 MEETING<br>SIZE GRADATION SIZE NO. 9 (AASHTO M-43). THE MAXIMUM PERCENTAGE OF FINES IS 15% FINES AND THE MINIMUM TESTED PERMEABILITY RATE IS 20 INCHES PER HOU<br>MATERIAL MUST BE CERTIFIED BY A NJ LICENSED PROFESSIONAL ENGINEER. CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A SUBMITTAL CON<br>REQUIREMENTS ARE MET.   |
|  | II. THE GATE VALVE WITHIN THE OUTLET STRUCTURE SHALL REMAIN CLOSED AT ALL TIMES, EXCEPT FOR PERIODS OF MAINTENANCE.   |
|  | C. PERMEABILITY TESTING REQUIREMENTS:   |
|  | I. PERMEABILITY TESTING MUST BE PERFORMED ON THE AS-BUILT INFILTRATION BASIN IN ACCORDANCE WITH THE CONSTRUCTION AND POST-CONSTRUCTION OV<br>SOIL PERMEABILITY TESTING SECTION IN THE "NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL APPENDIX D: INFILTRATION TESTING REQUIREMENTS".   |
| R OVERSIGHT OF THE CONSTRUCTION OF THE ITED TO:  | 2. AS REQUIRED BY "NEW YORK STATE STORMWATER MANAGEMENT DESIGN MANUAL APPENDIX D: INFILTRATION TESTING REQUIREMENTS", A MINIMUM OF XX PERME<br>SHALL BE PERFORMED WITHIN THE BASIN BOTTOM. THE MINIMUM PERMEABILITY RATE OF EACH TEST PIT SHALL BE <b>20</b> INCHES PER HOUR.   |
| MILIARITY WITH CONSTRUCTION OF THE BASIN.<br>CONSTRUCTION TECHNIQUES THAT WILL BE USED | 3. IF THE FIELD-TESTED PERMEABILITY RATES CONFIRM THE BASIN'S ABILITY TO TOTALLY DRAIN WITHIN 72 HOURS AFTER THE CESSATION OF THE DESIGN STORM<br>ENGINEER, IN CONSULTATION WITH THE OWNER AND ANY AGENCY HAVING JURISDICTION, MAY ACCEPT THE BASIN DESIGN. THE CONTRACTOR HAS THE<br>DEMONSTRATE THAT THE INFILTRATION BMP, WHEN FLOODED WITH WATER, EITHER ARTIFICIALLY OR NATURALLY BY RAIN EVENT, PERFORMS AS DESIGNED FOR INFIL  |
| ABOVE THE LOWER PLASTIC LIMIT AND THAT THE   | 4. IF NEITHER THE TESTING NOR FLOODING OF THE BASIN WORKS, WHERE THE PERMEABILITY RATES DO NOT MEET THE REQUIRED DESIGN RATE NOTED ABOVE BY LONGER DRAIN TIME THAN DESIGNED, REMEDIAL/CORRECTIVE ACTION MUST BE TAKEN BY THE CONTRACTOR. THE SOILS BELOW THE INFILTRATION BMP MUST BE RE  |
| AT THE PERMEABILITY RATE HAS BEEN RETAINED.<br>RATION AREA DURING CONSTRUCTION.        | REPLACED AND THEN RE-TESTED UNTIL THE REQUIRED DRAIN TIME IS ACHIEVED. ALL POST-CONSTRUCTION SOIL PERMEABILITY TEST RESULTS SHALL BE CERTIFIED B<br>PROFESSIONAL ENGINEER.  |
| e field differ from what is shown hereon.  | D. POST-CONSTRUCTION:   |
|  | I. UPON COMPLETION OF THE BASIN, THE CONTRACTOR SHALL PROVIDE THE DESIGN ENGINEER WITH A TOPOGRAPHIC SURVEY OF THE BASIN PREPARED BY A NEW YO PROFESSIONAL SURVEYOR. THE SURVEY SHALL INCLUDE I FOOT CONTOURS OF THE ENTIRE BASIN, TOP OF BERM ELEVATIONS, BOTTOM OF BASIN ELEVATION  |

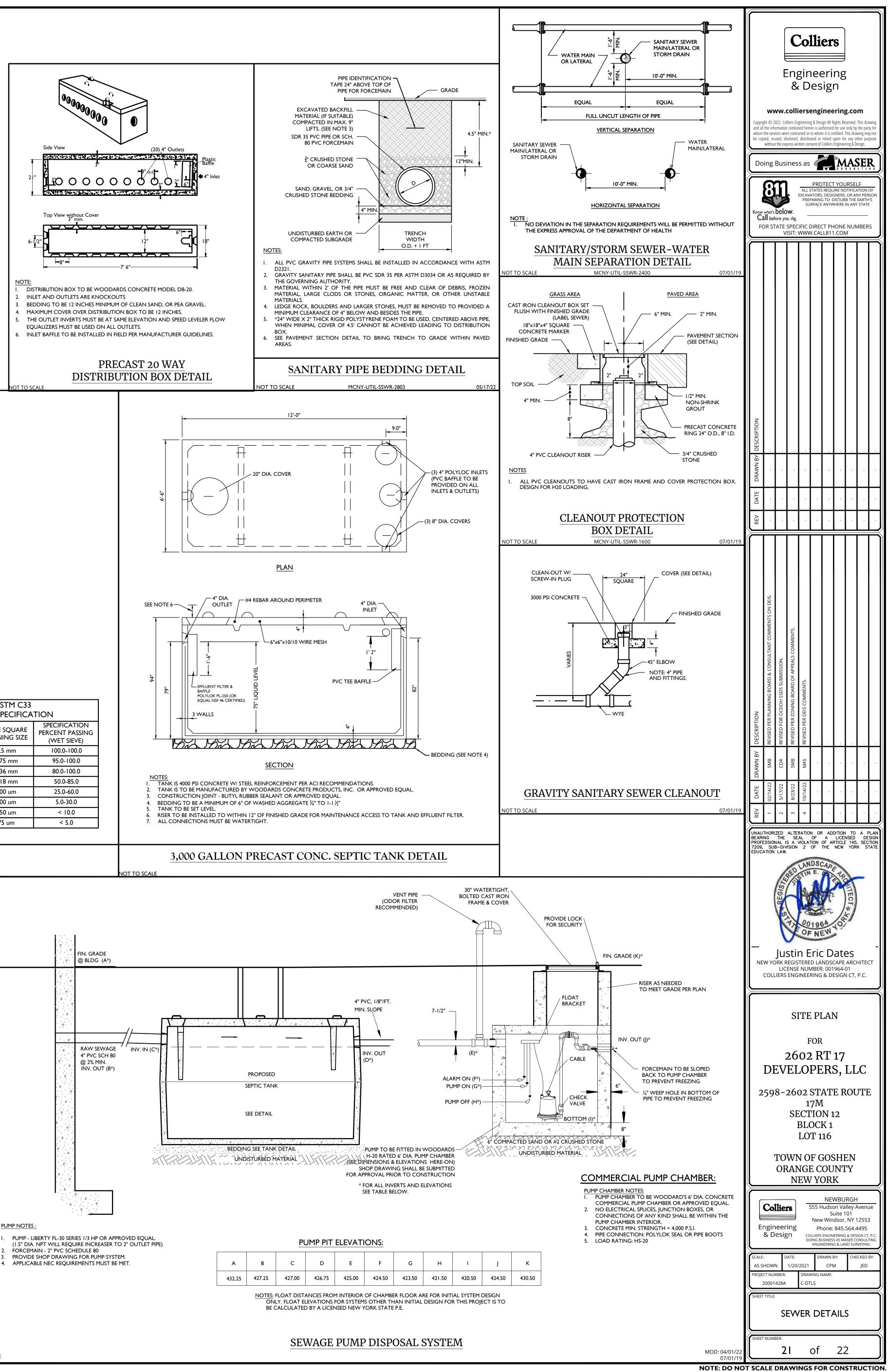
|      |  | MCNY-   | UTIL-STIVIV-1300                                   |             |              |   |   |   |
|------|--|---|--|-------------|--------------|---|---|---|
|      |  |   |  |             |              |   | PLANTING SOIL NOTE:   |   |
|      |  |   |  |             |              | 1                                       |   | NDY LOAM, LOAMY SAND, LOAM (USDA), OR A L<br>35 TO 60% SAND, BY VOLUME). THE CLAY CONTE     |
| ET   |  | DRETENTION ELEVATIO                                 | 100 YR PEAK  | TOP OF BERM | EMERGENCY    |   | THESE SOILS SHOULD BE LESS THAN 25  | 5% BY VOLUME. SOILS SHOULD FALL WITHIN THE<br>DIL CLASSIFICATION SYSTEM (USCS). A PERMEABIL |
| E    |  |   | ELEVATION  | ELEVATION   | SPILLWAY EL. | -                                       | LEAST I.0 FEET PER DAY (0.5"/HR) IS REG   | QUIRED (A CONSERVATIVE VALUE OF 0.5 FEET PE<br>LEE OF STONES, STUMPS, ROOTS, OR OTHER WO    |
| 0 2C | 4'X4'                                      | 391.5   | 392.7  | 394.0       | 393.0        | -                                       | MATERIAL OVER I" IN DIAMETER, AND   | BRUSH OR SEED FROM NOXIOUS WEEDS. PLACE   |
| ) 2D | 4'X4'                                      | 411.5   | 412.44   | 414.0       | 413.0        |   |   | OF 12" TO 18", LOOSELY COMPACTED (TAMPED LI<br>E SPECIFIC CHARACTERISTICS ARE AS FOLLOWS:   |
|      |  |   |  |             |              |   | PARAMETER   | VALUE   |
|      |  |   |  |             |              |   | PH RANGE  | 5.2 TO 7.00   |
|      |  |   |  |             |              |   | ORGANIC MATTER  | I.5 TO 4.0%   |
|      |  |   |  |             |              |   | MAGNESIUM   | 35 LBS. PER ACRE, MINIMUM   |
|      |  |   |  |             |              |   | PHOSPHORUS (P <sub>2</sub> O <sub>5</sub> )   | 75 LBS. PER ACRE, MINIMUM   |
|      |  |   |  |             |              |   | POTASSIUM (K <sub>2</sub> O)  | 85 LBS. PER ACRE, MINIMUM   |
|      |  |   |  |             |              |   | SOLUBLE SALTS   | 500 ppm   |
|      |  |   |  |             |              |   | CLAY  | 10 TO 25%<br>30 TO 55%  |
|      |  |   |  |             |              |   | SAND  | 30 TO 53%<br>35 TO 60%  |
|      |  |   |  |             |              |   | JAND  | 5510.00%  |
|      | Market Market                              | - GRASSED<br>SIDE SLOPE<br>2:1 (H:v) MAX<br>BIORETE | FOR FULL PLANTIN<br>INFORMATION S<br>LANDSCAPE PL  | SEE         |              | L THIS SHEET)<br>PR                     | FOR DRAINAGE<br>RIPRAP OUTLET<br>OTECTION AT DROP CURB<br>D50=6"<br>(GRASS OTHERWISE)<br>6" PONDING LAYER | ASPHALT<br>PAVEMENT   |
|      |  |   | 3" MULCH LAYER                                     |             | 7            | /////////////////////////////////////// |   |   |
|      |  |   | 2.5' PLANTING SOIL                                 |             |              | /                                       | FILTER FABRIC   | RIPRAP OUTLET LOCATIONS (H:V) MAX SLOPE<br>(2:1 (H:V) MAX OTHERWISE<br>30 MIL POND LINER    |
|      | 2  |   |  |             |              |   |   | GRAVEL DRAINAGE LAYER<br>AROUND UNDERDRAIN  |
|      | DISCHARGI<br>(SEE GRADI<br>DRAINAGE<br>FOR | NG &<br>PLAN  | 6" PERFORATED L<br>WRAPPED IN 4" OF<br>STONE AND F | ¾" CRUSHED  | -            |   |   | SUBGRADE  |

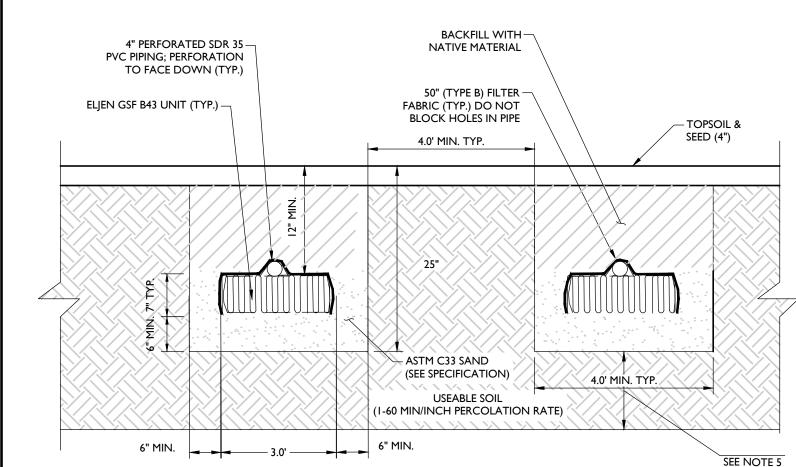






|   |   |   |   | C   | ò                                      | <b>11i</b>                       | er   | s                                       |  |                                   |                              |
|---|---|---|---|---|--|----------------------------------|--|---|--|-----------------------------------|------------------------------|
| )<br>)<br>2"<br>L   |   |   | Ę   | -   | gir<br>D                               |                                  |  | _                                       | -<br>  |                                   |                              |
| Ē   | and all whom                            | ght © 2<br>the info<br>the serv   | 022. Co<br>ormatior<br>rices we               | lliers En<br>1 contair<br>re contra           |  | ig & Des<br>ein is au<br>to whor | ign All R<br>thorized<br>n it is ce              | ights Re<br>for use<br>rtified.         | eserved.<br>only by<br>This dra              | This dra<br>the par<br>wing ma    | ty for<br>iy not             |
|   |   | whom the services were contracted or to whom it is certified. This drawing may not<br>be copied, reused, disclosed, distributed or relied upon for any other purpose<br>without the express written consent of Colliers Engineering & Design. |   |   |  |                                  |  |   |  |                                   |                              |
| E   | Know                                    | what's  | belc  | )<br>w.                                       | EXCAV<br>PRE                           | STATES<br>ATORS<br>PARING        | , DESIC<br>G TO D                                | IRE NO<br>GNERS<br>DISTUR               | OTIFICA<br>, OR AN<br>B THE                  | ATION                             | SON<br>I'S                   |
| S<br>S  |   |   | ATE   | SPEC  | IFIC I                                 |                                  |  |   |  | //BER                             | s                            |
|   |   |   |   |   |  |                                  |  |   |  |                                   |                              |
| 2)<br>5   |   |   |   |   |  |                                  |  |   |  |                                   |                              |
| ALL,<br>I DURING<br>ATION AT<br>VE ENTERED<br>USHING  | NG                                      |   |   |   |  |                                  |  |   |  |                                   |                              |
|   | DRAWN BY DESCRIPTION                    |   |   |   |  |                                  |  |   |  |                                   |                              |
| Described<br>L Flush<br>N. When<br>L Be<br>Epairing<br>Dducing  | REV DATE                                | ·   | •   | •   | •                                      | ·                                | ·  | •                                       | ·  | ·                                 | ·                            |
| . FLUSHING<br>, TWO<br>BE<br>CTED FROM<br>IE AND AT<br>ICAL<br>FOR THE<br>COLIFORM<br>DLOGICAL<br>JLFATE, AS<br>EWATER. | 2                                       | EIS.  |   |   |  |                                  |  |   |  |                                   |                              |
| E SHOULD<br>LING PIPE<br>ING. A<br>ENECK<br>( BE<br>CATE A<br>NG SHOULD<br>N UNTIL NO<br>E WATER<br>ATION AND<br>BUTION |   | REVISED PER PLANNING BOARD & CONSULTANT COMMENTS ON DEIS.   | SDS SUBMISSION.                               | REVISED PER ZONING BOARD OF APPEALS COMMENTS. | MENTS.                                 |                                  |  |   |  |                                   |                              |
| ч<br>-  | DATE DRAWN BY DESCRIPTION               | 02/14/22 SMB REVISED PER PLANNIN  | 5/17/22 CDR REVISED FOR OCDOH SSDS SUBMISSION | 8/23/22 SMB REVISED PER ZONING                | 10/14/22 MAS REVISED PER DEIS COMMENTS | · ·                              | •  |   | · ·  | · ·                               | •                            |
|   | REV                                     | 1   | 2   | 3 8/23  | 4 10/1                                 |                                  |  | •                                       |  |                                   |                              |
|   | UNAU<br>BEARI<br>PROFE<br>7209,<br>EDUC | NG<br>ESSIOI<br>SUI   | THE<br>NAL I<br>B-DIV<br>LAW.                 | SE<br>SA<br>ISION                             | RATIO<br>AL<br>VIOLA<br>2              | of<br>Tion<br>Of                 | A<br>OF AF<br>THE                                | NEW                                     | NSED<br>E 145<br>YOR                         | DE<br>, SEC                       | PLAN<br>SIGN<br>TION<br>TATE |
| F   |   | (   | LOS REGISTER                                  | AN AN   | THE WE SOF                             | 196<br>NE                        | PAR H AN   | TAC CO                                  | TECTAL                                       | -                                 |                              |
|   |   | W YC  | ORK F   | REGIS<br>ENSE                                 | n E<br>tere<br>i num<br>inee           | D LA                             | NDS0<br>:: 001                                   | CAPE<br>964-                            | ARCI<br>01                                   |                                   | <b>_</b><br>T                |
|   |   |   |   | S   | (TE                                    | E PI                             | ĹAľ  | N                                       |  |                                   |                              |
| N.<br>E #1)   |   | ית  |   |   | I<br>02<br>02                          |                                  | $\mathbf{T}$                                     | -                                       |  | ſ                                 |                              |
|   |   |   |   | 26  | 02<br>1                                | ST.<br>7M                        | AT:  | E F                                     |  |                                   | -                            |
| SECTION 12<br>BLOCK 1<br>LOT 116  |   |   |   |   |  |                                  |  |   |  |                                   |                              |
| IS  |   |   |   | RAN   | N O<br>NGI<br>EW                       | ЕC                               | OU   | ŊΊ                                      |  |                                   |                              |
| UM  |   | ngir  | l <b>lie</b><br>neer<br>esig                  | ing   | СС                                     | New<br>Ph<br>DILLIERS            | ludso<br>Si<br>V Win<br>None:<br>ENGIN<br>JSINES | on Va<br>uite 1<br>dsor<br>845.<br>845. | 101<br>, NY 1<br>564.4<br>5 & DES<br>ASER CO | Aveni<br>12553<br>1495<br>IIGN CT | 3<br>, p.c.<br>TING          |
| /01/19  | PROJE                                   | HOW   | N<br>MBER:                                    | DATE:<br>1/20/                                | /2021<br>DRAV                          | ENGIN<br>DR<br>VING N            | AWN E  | G & LAI<br>BY:                          | ND SUF                                       | CKED                              |                              |
|   |   | TITLE:  | :   | /A <sup>-</sup>                               | C-DT                                   |                                  | ET   | AIL                                     | .S   |                                   |                              |
|   |   | NUMI  | 2   |   |  |                                  |  | 22                                      |  |                                   |                              |
| NOTE: DO NO   | <b>JT SCA</b>                           | LE  | DRA   | W   | NG                                     | s FC                             | RC   | ON                                      | STR  | UC                                | <b>rio</b>                   |





## NOTES:

- BOTTOM OF ALL TRENCHES SHALL NOT BE ABOVE ORIGINAL USABLE SOIL AND TRENCHES SHALL BE A MINIMUM OF 18" BELOW ORIGINAL GRADE. SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ORANGE COUNTY HEALTH DEPARTMENT STANDARDS AND MANUFACTURER GUIDELINES FOR INSTALLATION IN THE STATE OF NEW YORK. WHEN WASTEWATER TREATMENT SYSTEMS ARE LOCATED UPGRADE AND IN THE DIRECT PATH OF SURFACE WATER
- DRAINAGE TO A WELL, THE CLOSEST PART OF THE TREATMENT SYSTEM SHALL BE AT LEAST 200 FEET AWAY FROM THE SEPARATION DISTANCES SHALL ALSO BE MEASURED FROM THE EDGE OF THE DESIGNATED ADDITIONAL USABLE AREA
- (RESERVE AREA), WHEN AVAILABLE. 4' VERTICAL SEPARATION FROM BOTTOM OF TRENCH TO BEDROCK OR IMPERMEABLE STRATA IS REQUIRED 2' VERTICAL SEPARATION FROM BOTTOM OF TRENCH TO GROUNDWATER IS REQUIRED.

| ASTM C33<br>SAND SPECIFICATION |                              |   |  |  |  |  |  |  |  |
|--------------------------------|------------------------------|---|--|--|--|--|--|--|--|
| SIEVE SIZE                     | SIEVE SQUARE<br>OPENING SIZE | SPECIFICATION<br>PERCENT PASSING<br>(WET SIEVE) |  |  |  |  |  |  |  |
| 0.375"                         | 9.5 mm                       | 100.0-100.0                                     |  |  |  |  |  |  |  |
| #4                             | 4.75 mm                      | 95.0-100.0                                      |  |  |  |  |  |  |  |
| #8                             | 2.36 mm                      | 80.0-100.0                                      |  |  |  |  |  |  |  |
| #16                            | 1.18 mm                      | 50.0-85.0                                       |  |  |  |  |  |  |  |
| #30                            | 600 um                       | 25.0-60.0                                       |  |  |  |  |  |  |  |
| #50                            | 300 um                       | 5.0-30.0  |  |  |  |  |  |  |  |
| #100                           | 150 um                       | < 10.0  |  |  |  |  |  |  |  |
| #200                           | 75 um                        | < 5.0   |  |  |  |  |  |  |  |

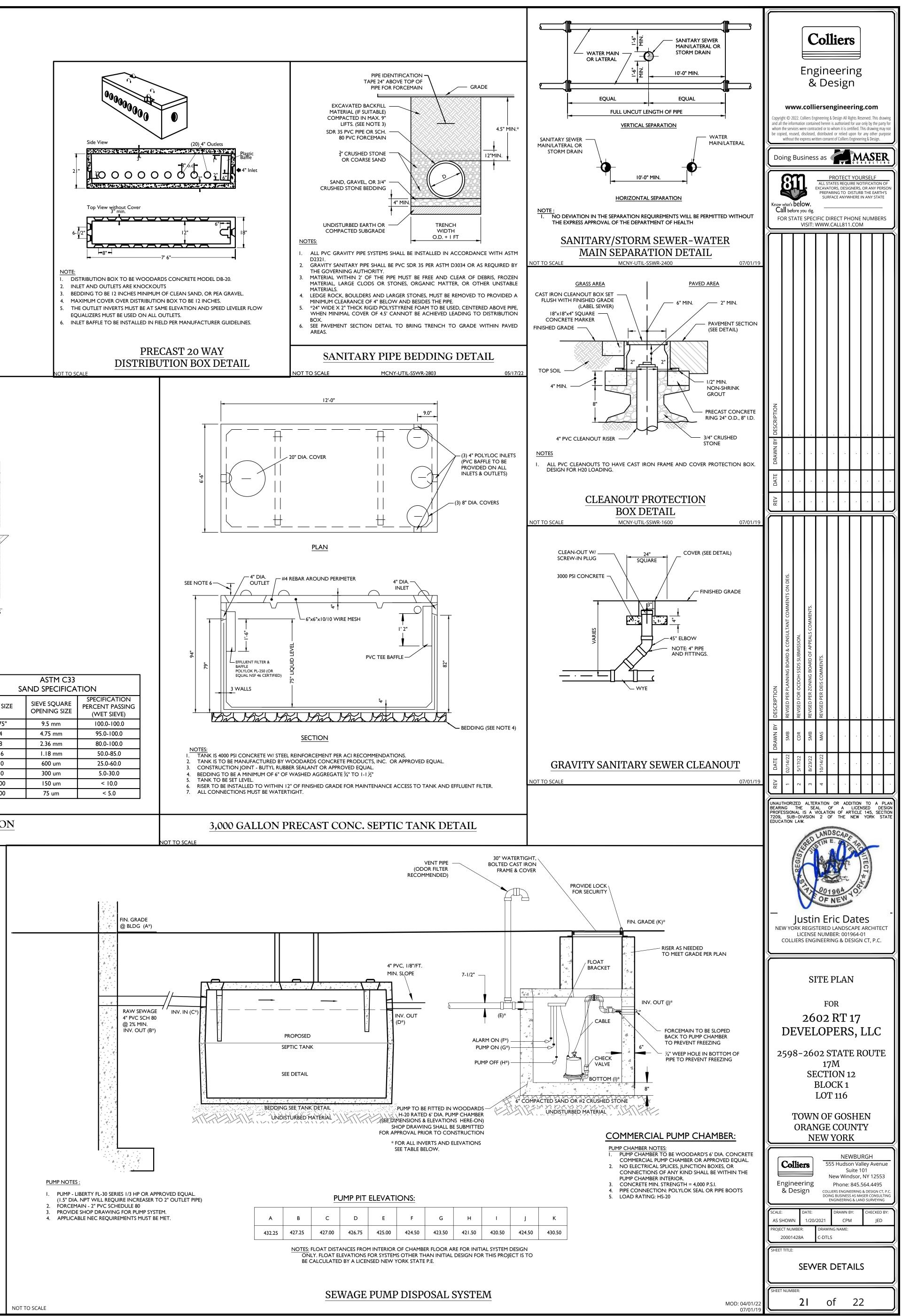
### TYPICAL STANDARD TRENCH CROSS SECTION ELJEN IN-DRAIN SYSTEM

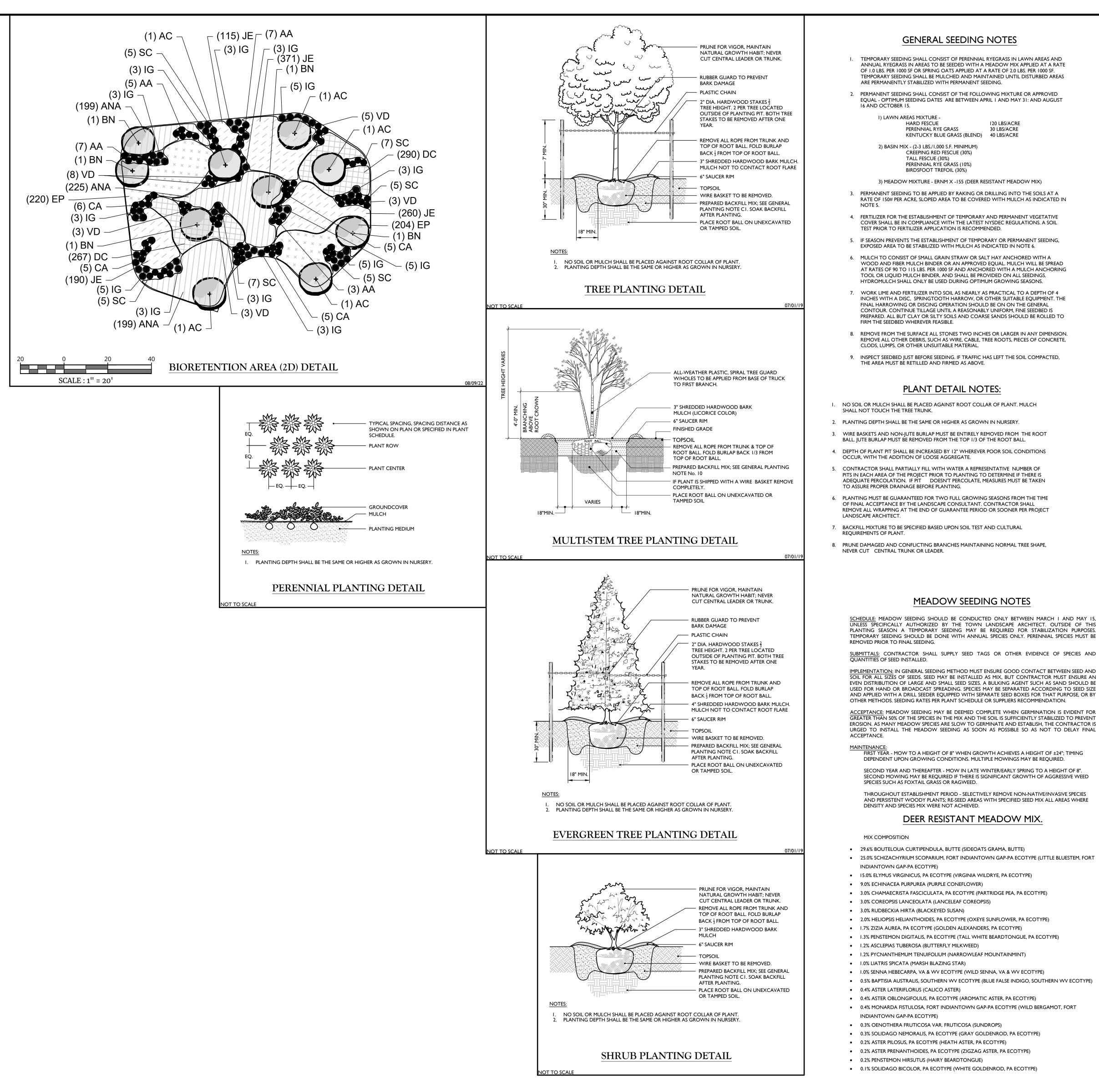
#### SANITARY SEWER NOTES:

- LOW FLOW PLUMBING FIXTURES MUST BE USED IN THE FACILITY. SEPTIC TANK TO HAVE ACCESS RISER INSTALLED TO WITHIN 12" OF FINISHED GRADE FOR MAINTENANCE ACCESS TO TANK AND EFFLUENT FILTER. ANY COVERS AT GRADE MUST BE LOCKABLE AND WATERTIGHT.
- HEAVY EQUIPMENT MUST BE KEPT OFF THE AREA OF THE ABSORPTION FIELD EXCEPT FOR THE ACTUAL CONSTRUCTION OF THE FIELD. THERE SHALL BE NO UNNECESSARY MOVEMENT OF CONSTRUCTION EQUIPMENT IN THE AREA OF THE PROPOSED FIELD BEFORE, DURING, OR AFTER CONSTRUCTION. EXTREME CARE MUST BE TAKEN DURING THE ACTUAL CONSTRUCTION AS TO AVOID ANY UNDUE COMPACTION THAT COULD RESULT IN A CHANGE OF THE ABSORPTION CAPACITY OF THE SOIL ON WHICH THE DESIGN WAS BASED.
- THE ABSORPTION FIELD AREA MUST BE STAKED OUT AND PROTECTED WITH ORANGE CONSTRUCTION FENCE THROUGHOUT THE DEVELOPMENT OF THE SITE. TRENCHES MUST NOT BE CONSTRUCTED IN WET SOIL.
- TRENCH BOTTOMS MUST BE DUG LEVEL IN THE LONGITUDINAL AND TRANSVERSE DIRECTIONS. SIDES AND BOTTOM OF TRENCHES MUST BE RAKED IMMEDIATELY PRIOR TO PLACING GRAVEL.
- THE END OF ALL DISTRIBUTOR PIPES MUST BE PLUGGED. ABSORPTION FIELD LATERALS FOR ELJEN SYSTEM MUST BE LAID FLAT.
- ). THE FIRST LENGTH OF SOLID PIPE LEÁVING THE D-BOX MUST BE AT THE SAME SLOPE (0.25% MIN.) FOR ALL OUTLETS FOR A MINIMUM OF 30" TOWARDS LATERALS. . 90 DEGREE BENDS ARE PROHIBITED IN THE EFFLUENT LINE LEADING TO THE D-BOX. 2. NO OTHER WELLS EXISTING WITHIN 300 FEET OF THE PROPOSED SSDS.
- 3. NO ROOF, CELLAR, OR FOOTING DRAINS TO BE DISCHARGED TO SEWAGE DISPOSAL SYSTEM. 14. NO BASEMENT FIXTURES ARE PERMITTED WITHOUT SPECIFIC SEWAGE SYSTEM DESIGN.
- 15. THE DESIGN ENGINEER MUST BE CONTACTED FOR A SEPTIC INSPECTION PRIOR TO BACKFILL OF THE ABSORPTION FIELD, D-BOX, TANK, AND ASSOCIATED PIPING. 5. RESULTS INDICATED FOR SEPTIC DESIGN (PERCOLATION AND DEEP TESTS) ARE RESULTS FROM ACTUAL FIELD TESTING PERFORMED ON 9/8/20 (PRESOAK & DEEPS) & 9/9/20 (PERC. TESTING). THIS SYSTEM WAS NOT DESIGNED TO ACCOMMODATE GARBAGE GRINDERS, JACUZZI TYPE SPA TUBS OVER 100 GALLONS, OR WATER
- SOFTENER SYSTEMS. AS SUCH, THESE ITEMS SHALL NOT BE INSTALLED UNLESS THE SYSTEM IS REDESIGNED TO ACCOUNT FOR THEM AND RE-APPROVED BY THE ORANGE COUNTY HEALTH DEPARTMENT. 8. SURFACE WATER DIVERSION SWALES MUST BE INSTALLED AS REQUIRED TO DIRECT OVERLAND SHEET FLOW AWAY FROM THE ABSORPTION 19. THE DESIGN AND LOCATION OF SANITARY FACILITIES (WATER AND SEWER SYSTEMS) SHALL NOT BE CHANGED WITHOUT REVIEW AND APPROVAL OF THE ORANGE COUNTY DEPARTMENT OF HEALTH.
- 20. THERE SHALL BE NO RE-GRADING IN THE AREA OF THE ABSORPTION FIELD AND EXPANSION AREA. 21. NO SWIMMING POOLS, DRIVEWAYS, OR STRUCTURES THAT MAY COMPACT THE SOIL SHALL BE LOCATED OVER ANY PORTION OF THE
- ABSORPTION FIELD OR EXPANSION AREA. 2. THERE MUST BE UNINTERRUPTED POSITIVE SLOPE FROM THE SEPTIC TANK TO THE BUILDING, ALLOWING SEPTIC GASSES TO DISCHARGE THROUGH THE VENT STACK.
- 3. SEPTIC TANKS SHOULD BE INSPECTED PERIODICALLY AND PUMPED AS REQUIRED. THE EFFLUENT FILTER MUST ALSO BE INSPECTED & CLEANED DURING MAINTENANCE AS REQUIRED. 24. DISTRIBUTION BOXES SHOULD BE INSPECTED ANNUALLY TO ASSURE THEY ARE LEVEL AND OPERATING PROPERLY. 25. DIG SAFELY NEW YORK MUST BE CONTACTED PRIOR TO ANY EXCAVATION OF DEMOLITION (DIAL 811 OR WWW.DIGSAFELYNEWYORK.COM)

## ELJEN GSF DESIGN NOTES:

- THIS DESIGN AND CONSTRUCTION REQUIREMENT COMPLIES WITH NEW YORK STATE AND LOCAL HEALTH DEPARTMENT REGULATIONS. THIS DESIGN COMPLIES WITH AND MUST BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT ELJEN NEW YORK DESIGN AND
- INSTALLATION MANUAL. THIS SYSTEM IS NOT DESIGNED FOR USE WITH A GARBAGE DISPOSAL.
- ORGANIC MATERIAL THAT CAN RESTRICT FLOW MUST BE REMOVED FOR RAISED BEDS. THE SOIL MUST BE SCARIFIED TO PROVIDE DEEP CHANNELS FOR THE SAND. A PLOWED INTERFACE ON CONTOUR IS RECOMMENDED TO PREPARE THE SOIL FOR FILL PLACEMENT. SCARIFY ANY SMEARED SUBSOIL PRIOR TO FILL PLACEMENT.
- FILL MATERIAL SHALL MEET OR EXCEED STATE OF NEW YORK CODE REQUIREMENTS. ALL FILL MATERIAL SHALL BE CLEAN BANK RUN SAND, FREE OF TOPSOIL, HUMUS, AND "DREDGING" DIRECTLY BENEATH THE GSF SYSTEM. ASTM C33 SPECIFIED SAND WITH LESS THAN 10% PASSING A #100 SIEVE AND LESS THAN 5% PASSING A #200 SIEVE SHALL BE PLACE BELOW AND
- AROUND THE GSF MODULES, WITH 6 INCHES MINIMUM UNDERNEATH AND 6 INCHES MINIMUM SURROUNDING THE GSF MODULES IN TRENCH CONFIGURATIONS. IN BED SYSTEMS, USE 6 INCHES MINIMUM UNDERNEATH THE MODULES WITH 12 INCHES MINIMUM BETWEEN MODULE ROWS
- AND 12 INCHES MINIMUM AROUND THE PERIMETER OF THE MODULES. ELIEN PROVIDED GEOTEXTILE COVER FABRIC SHALL PROVIDE PROPER TENSION AND ORIENTATION OF THE FABRIC AROUND THE SIDES OF THE PERFORATED PIPE ON TOP OF THE GSF MODULES. FABRIC SHOULD BE NEITHER TOO LOOSE, NOR TOO TIGHT. THE CORRECT TENSION OF THE COVER FABRIC IS SET BY: -SPREADING THE COVER FABRIC OVER THE TOP OF THE MODULE AND DOWN BOTH SIDES OF THE MODULE WITH THE COVER FABRIC TENTED OVER THE TOP OF THE PERFORATED DISTRIBUTION PIPE. -PLACE SHOVEL FULLS OF SPECIFIED SAND DIRECTLY OVER THE PIPE AREA ALLOWING THE COVER FABRIC TO FORM A
- MOSTLY VERTICAL ORIENTATION ALONG THE SIDES OF THE PIPE. REPEAT THIS STEP MOVING DOWN THE PIPE. BACKFILL MATERIAL SHALL BE CLEAN WITH NO ROOTS OR STONES LARGER THAN 2 INCHES IN ANY DIMENSION TO A MINIMUM DEPTH OF 8
- INCHES OVER THE GSF MODULES AND FINAL COVER FOR VEGETATION OF 4 INCHES TO 6 INCHES OF CLEAN LOAM. 10. ANY SYSTEM WHICH IS MORE THAN 18 INCHES BELOW FINISH GRADE AS MEASURED FROM THE TOP OF THE MODULE SHALL BE VENTED.





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|  | <b>Colliers</b><br>Engineering<br>& Design  |   |  |  |   |   |                                    |                                |                               |                               |                   |  |
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|  | Doing Business as<br>PROTECT YOURSELF<br>ALL STATES REQUIRE NOTIFICATION OF<br>EXCAVATORS, DESIGNERS, OR ANY PERSON<br>PREPARING TO DISTURB THE EARTH'S<br>PROTECT MOUNT OF THE PARTING TO DISTURB THE EARTH'S  |   |  |  |   |   |                                    |                                |                               |                               |                   |  |
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|  | New Windsor, NY 12553         Engineering<br>& Design         Phone: 845.564.4495         colliers Engineering & Design CT, P.C.<br>DOING BUSINESS AS MASER CONSULTING<br>ENGINEERING & LAND SURVEYING         SCALE:       DATE:         Intermediate       DRAWN BY:         CHECKED BY:       JED         PROJECT NUMBER:       DRAWING NAME:         20001428A       C-DTLS |   |  |  |   |   |                                    |                                |                               |                               |                   |  |
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