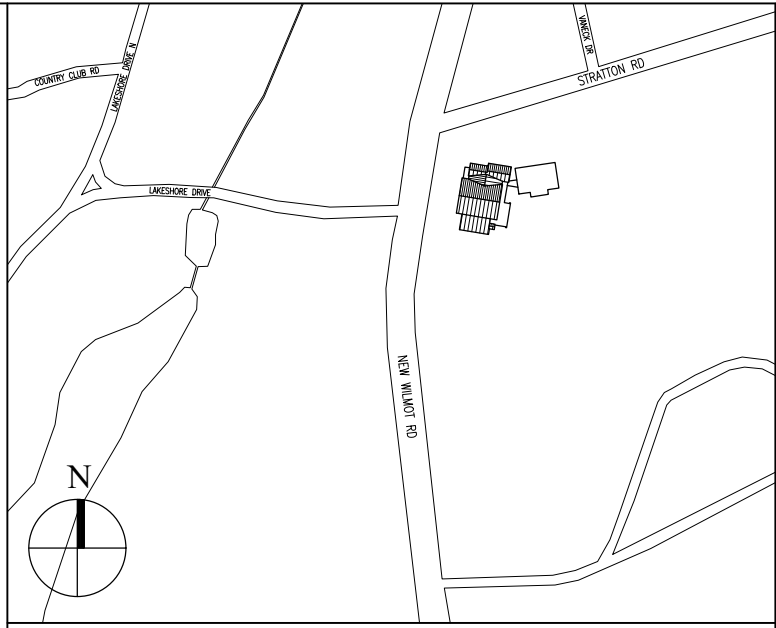
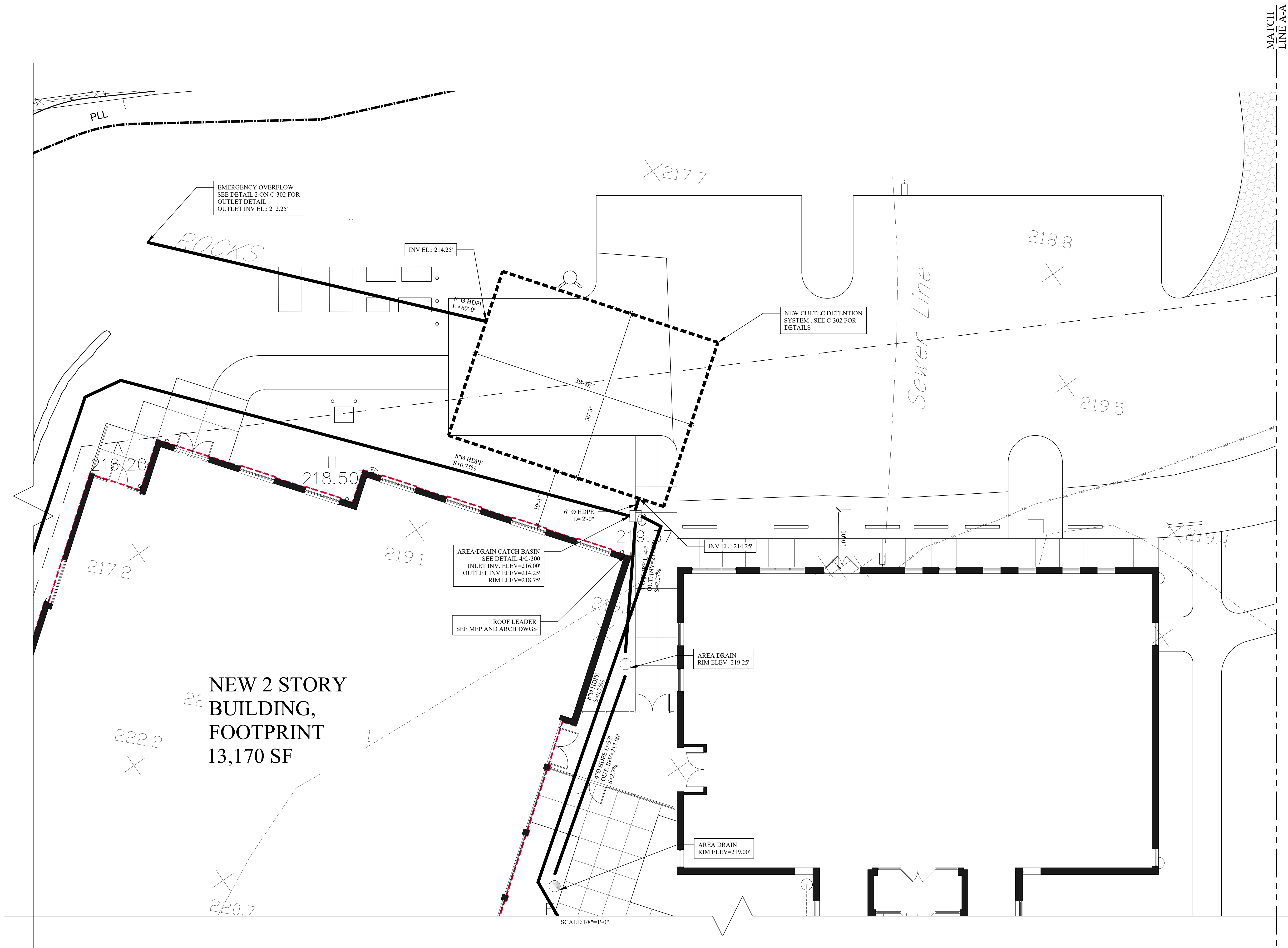








Key Plan (not to scale)

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|-----|------------|--------------------------------------|
| 7.  | 6/01/2021  | ISSUED FOR BID                       |
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| 1.  | 1/10/2020  | ISSUED FOR DD ESTIMATE               |
| No. | Date       | Revision/Submission                  |

STRUCTURAL & SITE CIVIL ENGINEER  
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Stamp

Project Title  
IONA PREPARATORY SCHOOL  
ADDITION AND ALTERATION TO THE  
PAUL VERNI FINE ARTS CENTER

Project Address  
IONA PREPARATORY SCHOOL  
255 Wilmot Road  
New Rochelle, NY 10804

Drawing Title  
STORMWATER DETENTION PLAN

|       |         |            |             |
|-------|---------|------------|-------------|
| Scale | Job No. | Date       | Drawing No. |
|       | 1618    | 04/03/2019 | C-101.00    |
| Drawn |         |            |             |

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PROPOSED DRAINAGE AND SITE UTILITY PLAN

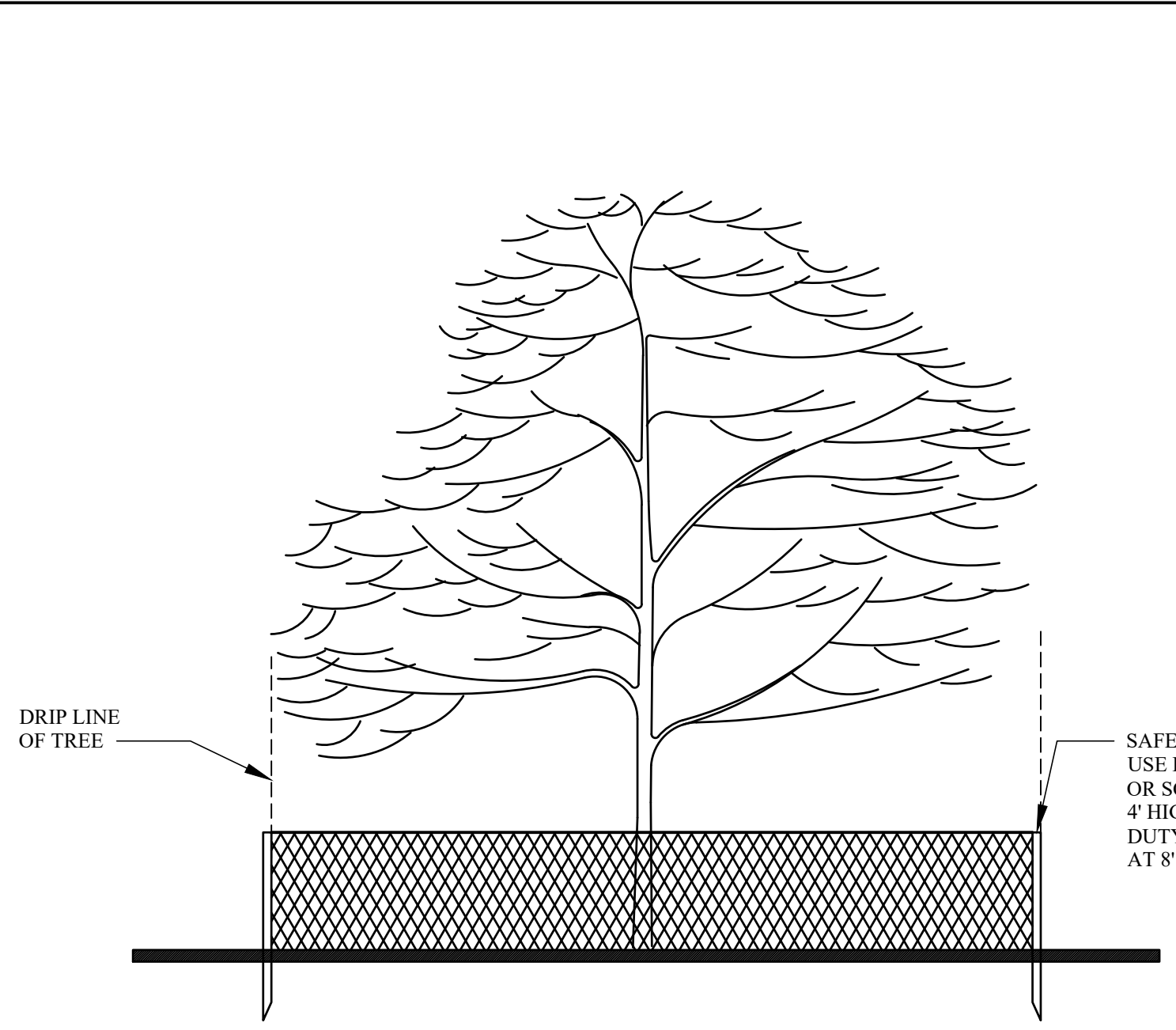






P E T E R   G I S O L F I   A S S O C I A T E S

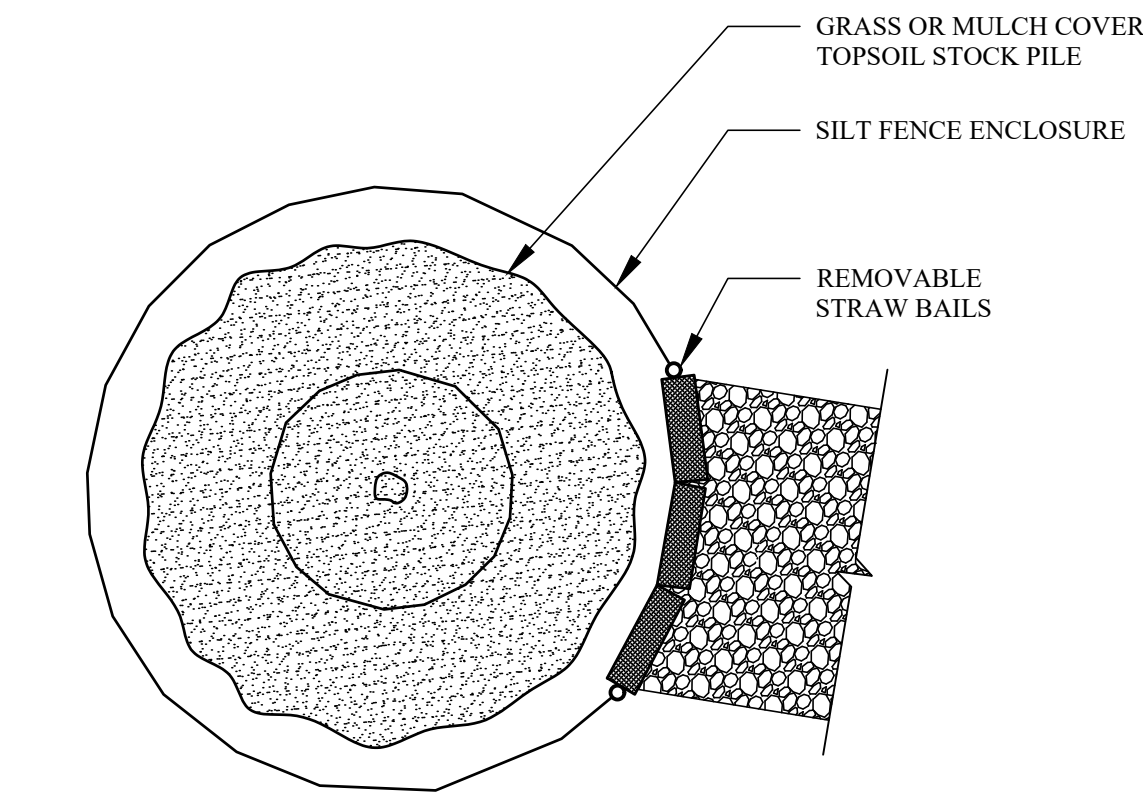




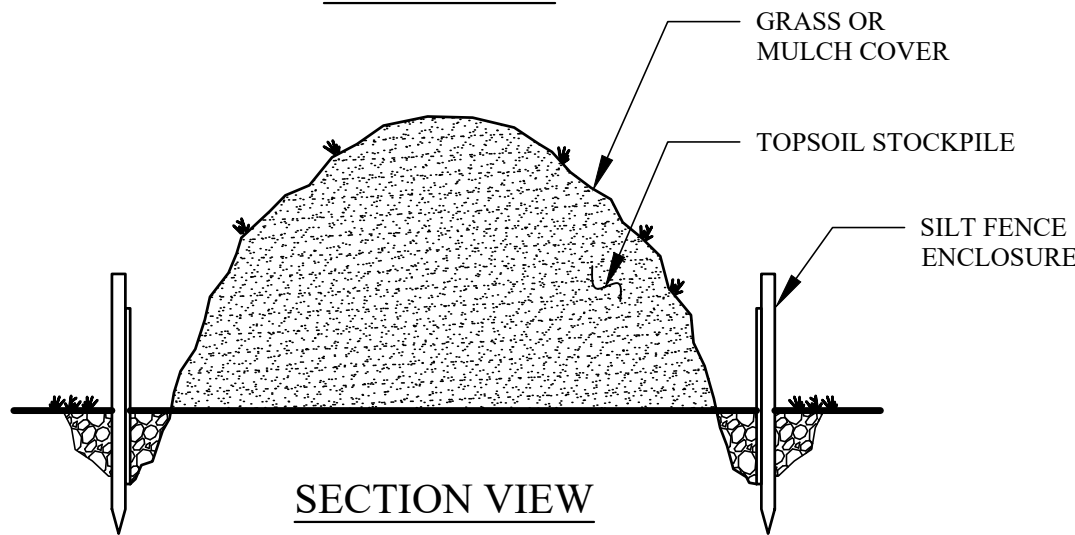
- 1- THE PROJECT DEVELOPER SHALL TAKE REASONABLE PRECAUTION TO SAVE SPECIMEN QUALITY TREES IN AREAS NOTED ON THE PLANS FOR CLEARING. WHEN POSSIBLE, THE DEVELOPER SHALL PROTECT INDIVIDUAL SPECIMEN TREES THROUGH THE INSTALLATION OF SAFETY FENCING AROUND THE DRIP LINE PERIMETER OF THE TREE.
- 2- SAFETY FENCING SHALL BE INSTALLED AT THE ONSET OF SITE CONSTRUCTION TO PREVENT VEHICLE TRAFFIC FROM COMPACTING THE SOILS IN THE VICINITY OF THE TREE ROOT STRUCTURE.

TREE PROTECTION DETAIL

1 TREE PROTECTION DETAIL  
NOT TO SCALE



PLAN VIEW

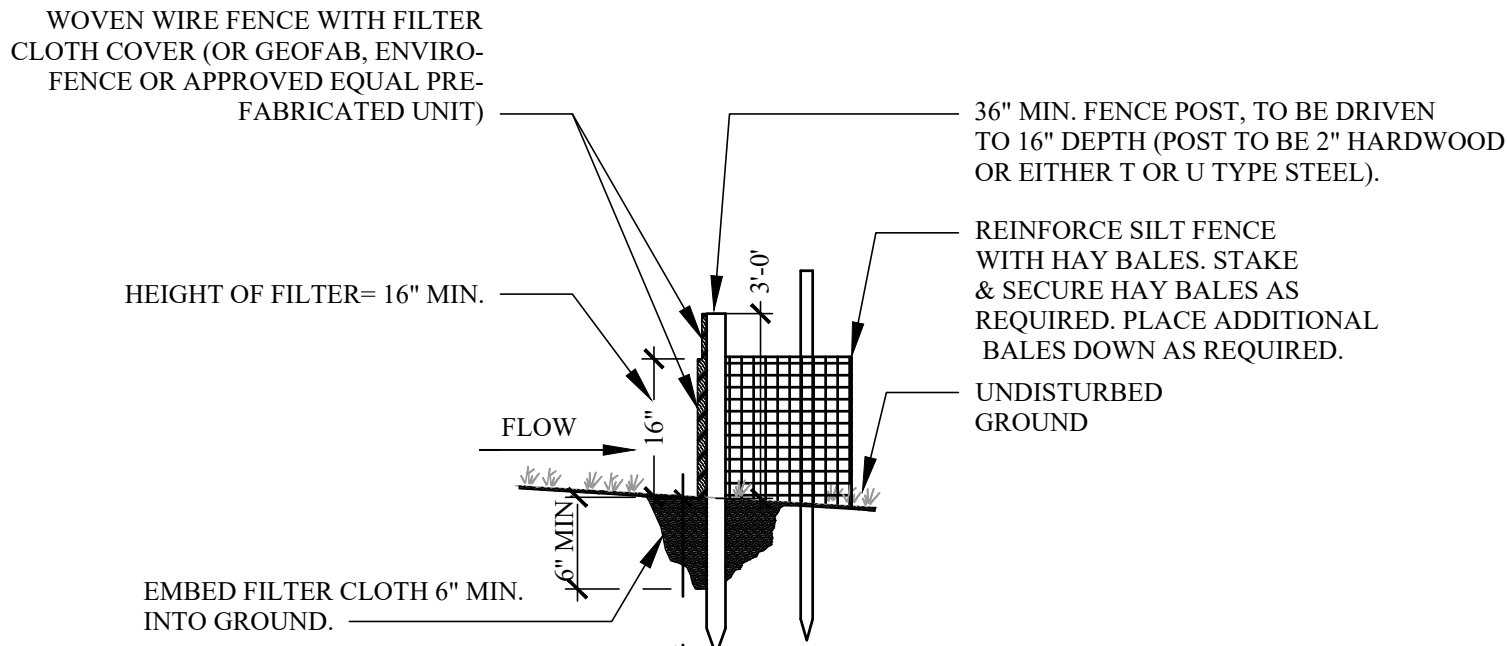


SECTION VIEW

NOTES:

- SOIL STOCKPILE SHALL BE ENCIRCLED WITH SILT FENCING WITH PASSAGEWAY PROVIDED FOR EQUIPMENT ACCESS.
- PROVIDE TEMPORARY GRASS OR MULCH COVER IF STOCKPILE IS TO REMAIN UNDISTURBED FOR THIRTY DAYS OR MORE. TEMPORARY COVER SHALL CONSIST OF ONE OF THE FOLLOWING MEASURES:
  - GRASS SEED: 1/2 LB. RYE GRASS /1000S.F
  - MULCH: 100LBS OF STRAW OR HAY/1000S.F

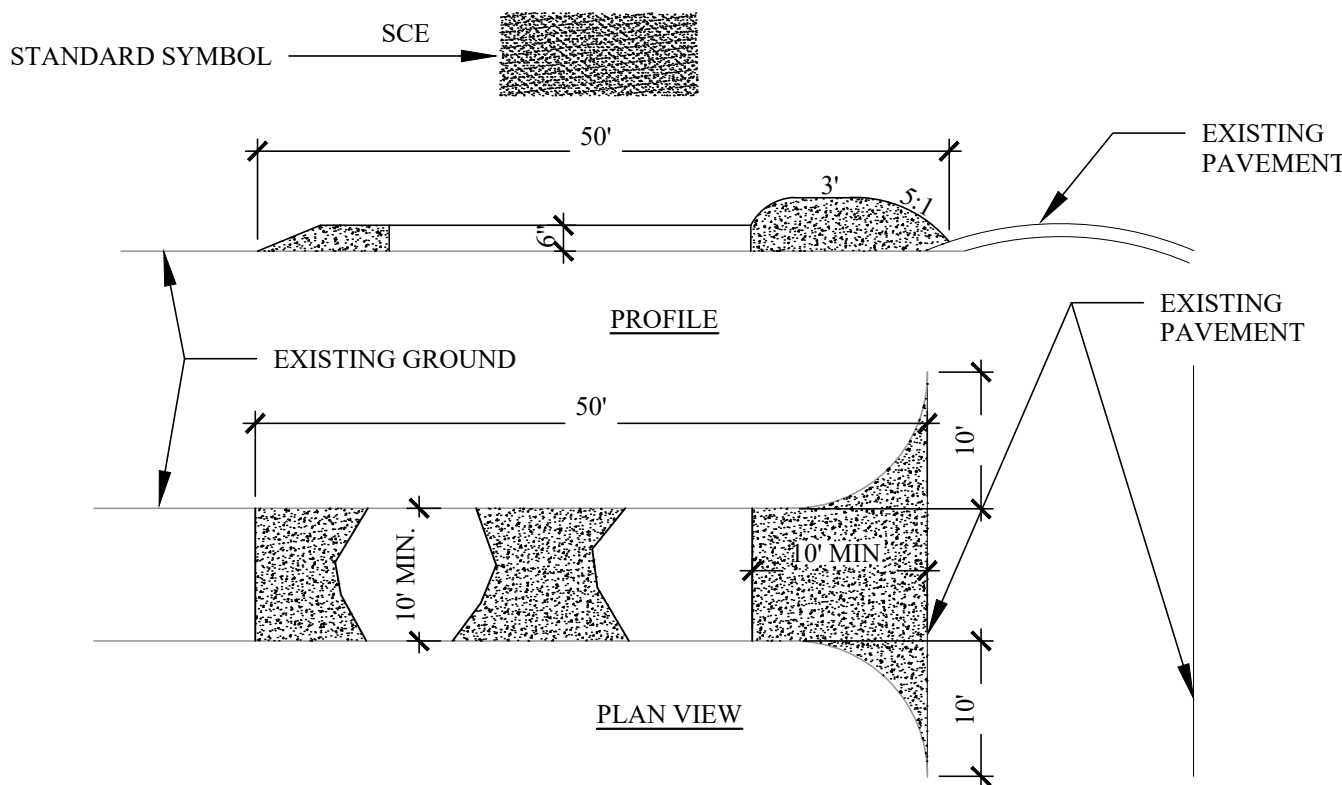
3 SOIL STOCK PILE DETAIL  
NOT TO SCALE



NOTES:

- POST SPACING TO BE 10' MAX. O.C.
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- WOVEN WIRE FENCE TO BE 14 GA. MIN., 6" MAX. SPACING.
- FILTER CLOTH TO BE FILTER X, MIRAFI 100XOR APPROVED EQUAL.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH WIRE TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX INCHES, FOLDED AND STAPLED OR TIED TO A POST (PROVIDE POST AT SPLICE).
- MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND MATERIAL REMOVED WHEN BULGES DEVELOP IN THE SILT FENCE.
- BALES SHALL BE PLACED AT THE TOE OF SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF (4) INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN 1 1/2" TO 2" INTO THE GROUND AND FLUSH WITH THE BALE.
- INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULLNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

2 TYPICAL SILT FENCE DETAIL  
NOT TO SCALE



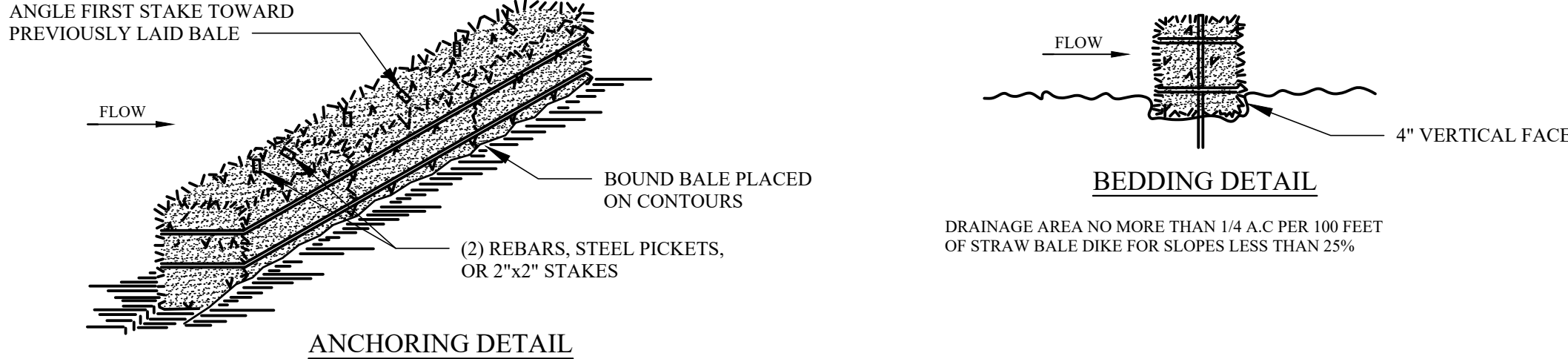
CONSTRUCTION SPECIFICATIONS:

- STONE SIZE - USE 2" STONE OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
- THICKNESS - NOT LESS THAN (6) INCHES.
- WIDTH - TEN (10) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE . FILTER WILL NOT BE REQUIRED ON A SINGLE FAMILY RESIDENCE LOT.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCE SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPE WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANING OF ANY MEASURE USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAYS MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

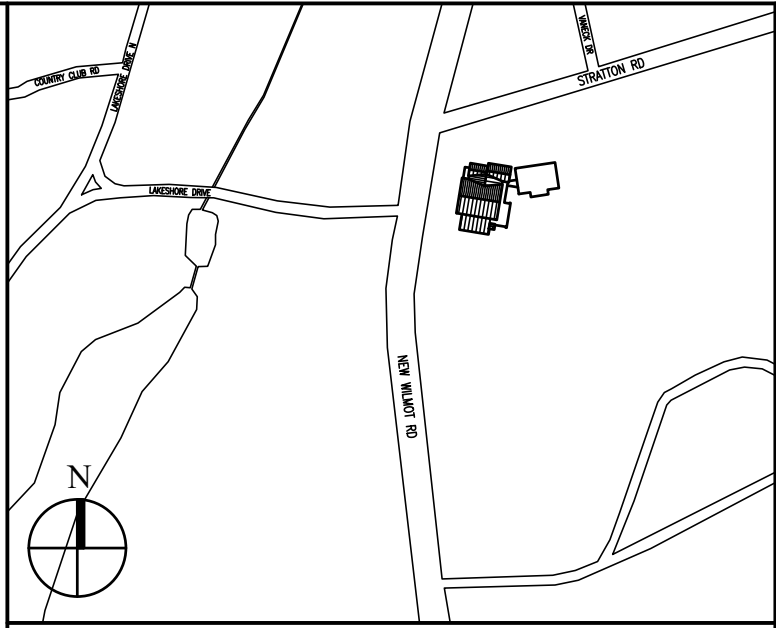
4 STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE

EROSION CONTROL:

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN STATE STANDARDS AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECTED TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING AND MULCHING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NY STANDARDS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECTED TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR SUTABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO NY STANDARDS.
- STABILIZATION SPECIFICATIONS:
  - TEMPORARY SEEDING AND MULCHING:
    - LIME - 90 LBS./ 1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4"
    - SEED - PERENNIAL RYE GRASS 40 LBS./ACRE (1 LB / 1,000 SF) OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
    - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
  - PERMANENT SEEDING AND MULCHING:
    - TOPSOIL - UNIFORM APPLICATION TO A DEPTH OF 5" (UNSETTLED).
    - LIME - 90 LBS./1,000 SF GROUND LIMESTONE; FERTILIZER - 11 LBS./ 1,000 SF, 10-20-10 OR EQUIVALENT WORKED INTO THE SOIL A MINIMUM OF 4"
    - SEED TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS) 150 LBS./ACRE (3.5 LBS./1,000 SF) OR OTHER APPROVED SEED; PLANT BETWEEN MARCH 1 AND OCTOBER 15.
    - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS./1,000 SF TO BE APPLIED ACCORDING TO THE NY STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWINE, MULCH NETTING OR LIQUID BINDER).
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM WATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOOD PLAIN SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A STRAW BALE SEDIMENT BARRIER AND/OR SILT FENCE.
- A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 1" - 2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' X 100' AND SHOULD BE UNDERLAIN WITH A SUTABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- DRIVEWAYS MUST BE STABILIZED WITH 1" - 2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- ALL SOIL WASHED, DROPPED, SPILLED OR TRACKED OUTSIDE THE LIMIT OF DISTURBANCE OR INTO PUBLIC RIGHT-OF-WAYS, WILL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- CATCH BASIN INLETS WILL BE PROTECTED WITH AN INLET FILTER DESIGNED IN ACCORDANCE WITH NY STANDARDS.
- STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT CONTROL BAG OR OTHER APPROVED FILTER IN ACCORDANCE WITH NY STANDARDS.
- DUST SHALL BE CONTROLLED VIA THE APPLICATION OF WATER, CALCIUM CHLORIDE OR OTHER APPROVED METHOD IN ACCORDANCE WITH NY STANDARDS.
- TREES TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH A SUTABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH NY STANDARDS.
- THE PROJECT OWNER SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM WATER OUTFALLS OR OFF-SITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- ANY REVISION TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO IMPLEMENTATION IN THE FIELD.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE THROUGHOUT CONSTRUCTION.
- SILT FENCING SHALL BE ADJUSTED IN FIELD AND NOT ENCR OACH ONTO EXISTING TREES TO REMAIN AND SHALL ENCOMPASS LIMITS OF DISTURBANCE INCLUDING SEEPAGE PIT LOCATIONS.
- THE TREE PROTECTION AND PRESERVATION WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREA WITH MANY TREES. STEPS THAT WILL BE TAKEN TO RESERVE AND PROTECT EXISTING TREES TO REMAIN ARE AS FOLLOWS:
  - NO CONSTRUCTION EQUIPMENT SHALL BE PARKED UNDER THE TREE CANOPY.
  - THERE WILL BE NO EXCAVATION OR STOCKPILING OF EARTH UNDERNEATH THE TREES.
  - TREES DESIGNATED TO BE PRESERVED SHALL BE MARKED CONSPICUOUSLY ON ALL SIDES AT A 5 TO 10 FOOT HEIGHT.
  - THE TREE PROTECTION ZONE FOR TREES DESIGNATED TO BE PRESERVED WILL BE ESTABLISHED BY ONE OF THE FOLLOWING METHODS:
    - ONE (1) FOOT RADIUS FROM TRUNK PER INCH DBH.
    - DRIP LINE OF THE TREE CANOPY.



5 TYPICAL HAY BALE DETAIL  
NOT TO SCALE



Key Plan (not to scale)

|                                  |            |                                      |
|----------------------------------|------------|--------------------------------------|
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| 1.                               | 1/10/2020  | ISSUED FOR DD ESTIMATE               |
| No.                              | Date       | Revision/Submission                  |
| STRUCTURAL & SITE CIVIL ENGINEER |            |                                      |
| DOMINICK R PILLA                 |            |                                      |
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| 845-727-7793                     |            |                                      |
| MEP ENGINEER                     |            |                                      |
| JMY CONSULTING                   |            |                                      |
| ENGINEERING, P.C.                |            |                                      |
| 37 W. 39 STREET, STE 703         |            |                                      |
| NEW YORK, NY 10018               |            |                                      |
| 212-852-9855                     |            |                                      |
| ROOFING CONSULTANT               |            |                                      |
| WATSKY ASSOCIATES                |            |                                      |
| 20 MADISON AVENUE                |            |                                      |
| VALHALLA, NY 10595               |            |                                      |
| 914-946-3460                     |            |                                      |

Stamp

Project Title  
**IONA PREPARATORY SCHOOL  
ADDITION AND ALTERATION TO THE  
PAUL VERNI FINE ARTS CENTER**

Project Address  
**IONA PREPARATORY SCHOOL  
255 Wilnot Road  
New Rochelle, NY 10804**

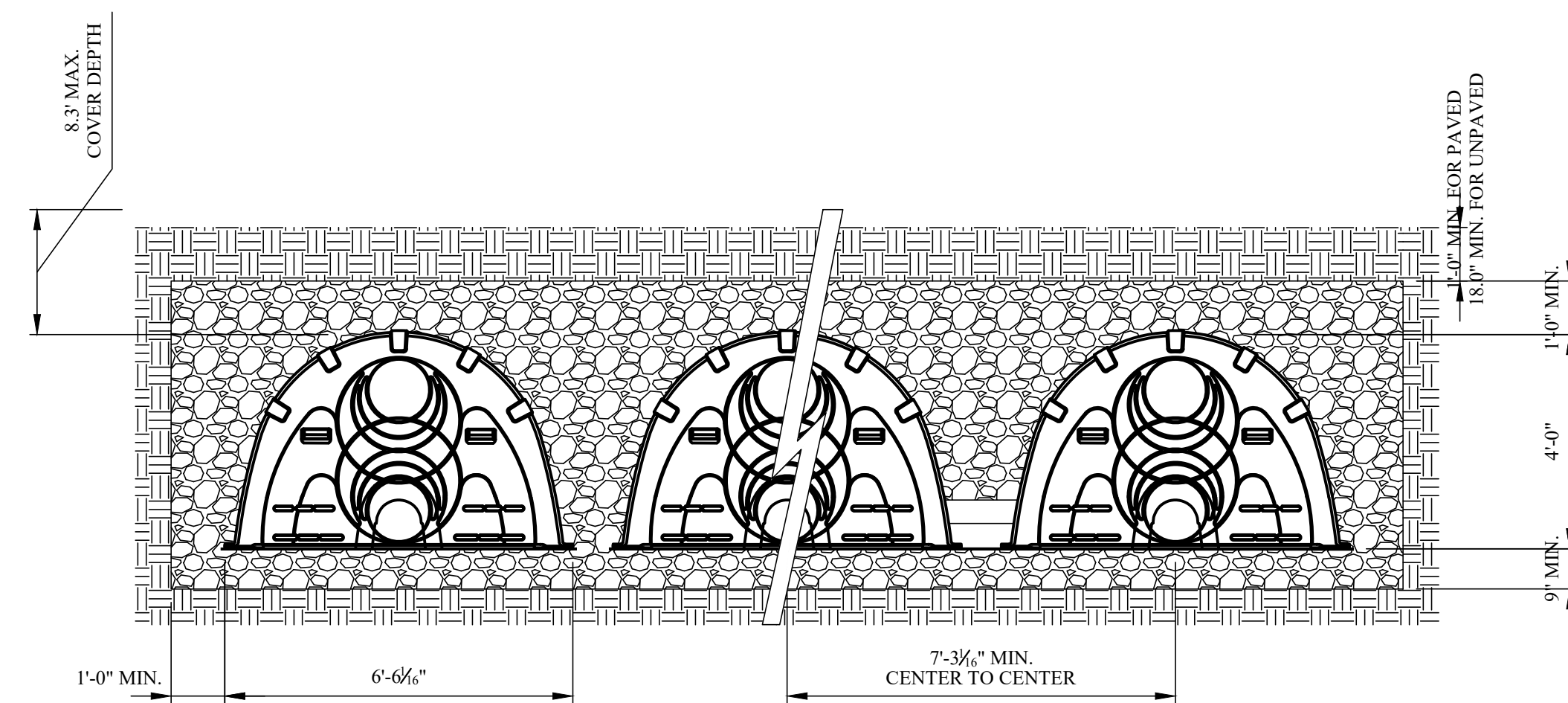
Drawing Title  
**EROSION AND SEDIMENT CONTROL  
DETAILS**

| Scale | Job No. | Date       | Drawing No. |
|-------|---------|------------|-------------|
|       | 1618    | 04/03/2019 | C-301.00    |

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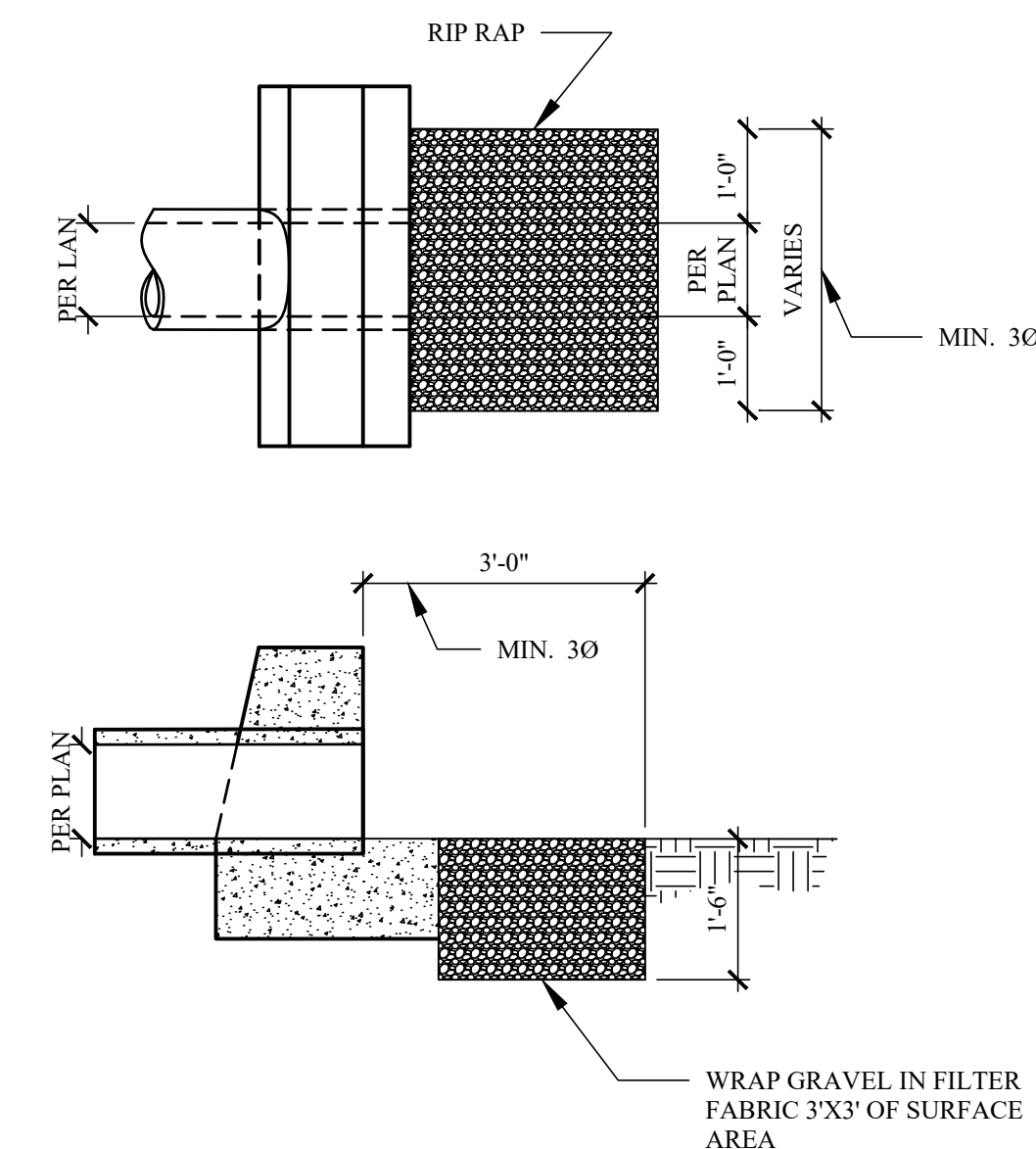




- NOTES:**
1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONDITIONS SHALL INCLUDE:
    - 1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
    - 1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
    - 1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
  2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
  3. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTECS RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
    - 3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
    - 3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
    - 3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95



1B SECTION -1B  
- TRANSVERSE VIEW  
SCALE: 3/8" = 1'-0"



2 DISCHARGE AREA EROSION CONTROL DETAIL  
- 1/2" = 1'-0"

|     |            |                                      |
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| 37 W. 39 STREET, STE 703   | VALHALLA, NY 10595               |
| NEW YORK, NY 10018         | 914-948-3450                     |
| 212-852-9855               |                                  |

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|  | Stamp |

|                                                                                          |
|------------------------------------------------------------------------------------------|
| <b>Project Title</b>                                                                     |
| IONA PREPARATORY SCHOOL<br>ADDITION AND ALTERATION TO THE<br>PAUL VERNI FINE ARTS CENTER |

|                                                                      |
|----------------------------------------------------------------------|
| Project Address                                                      |
| IONA PREPARATORY SCHOOL<br>255 Wilmot Road<br>New Rochelle, NY 10804 |

|                       |
|-----------------------|
| Drawing Title         |
| CULTEC SYSTEM DETAILS |

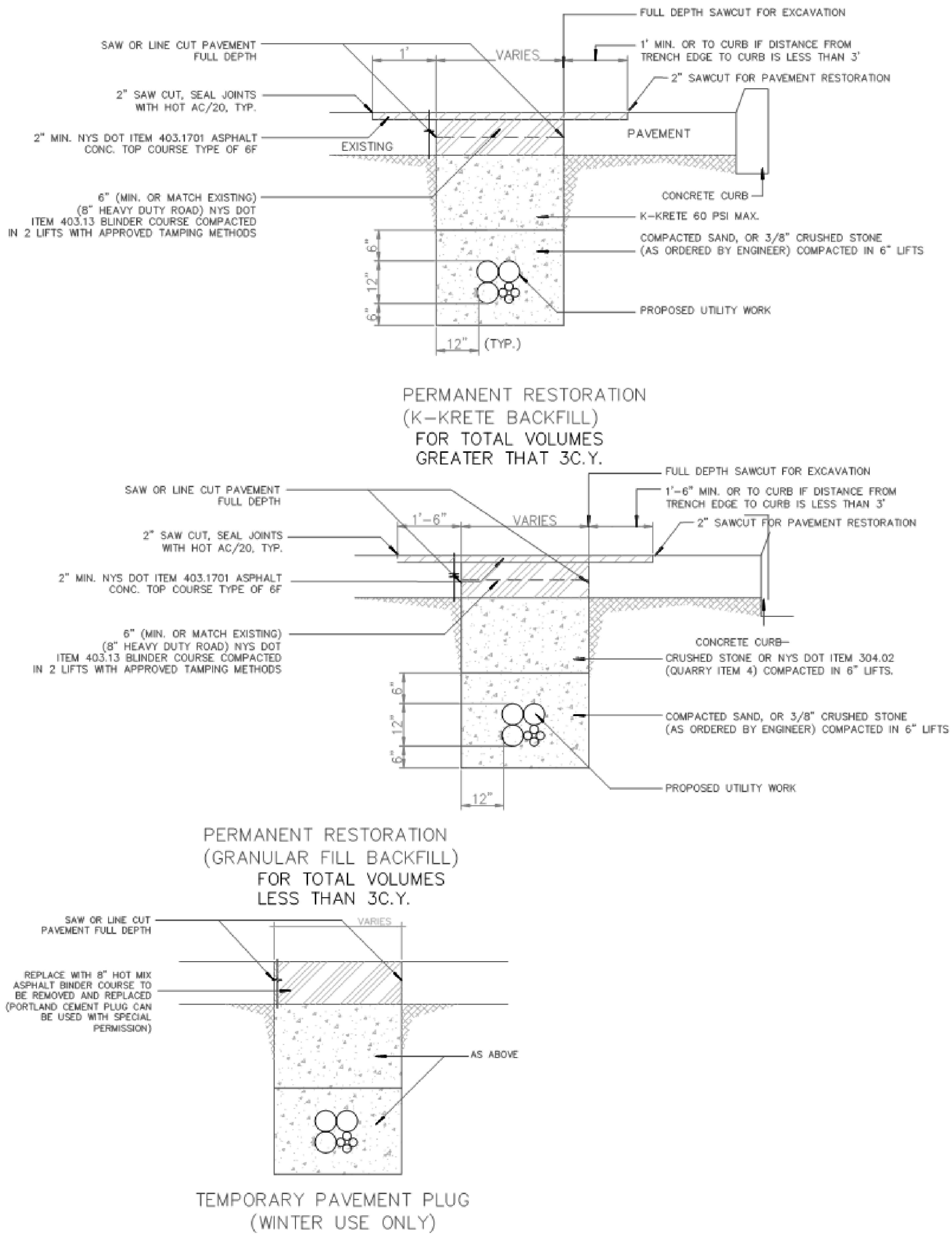
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| Scale | Job No. | Date       | Drawing No. |
|       | 1618    | 04/03/2019 | C-302.00    |
| Drawn |         |            |             |

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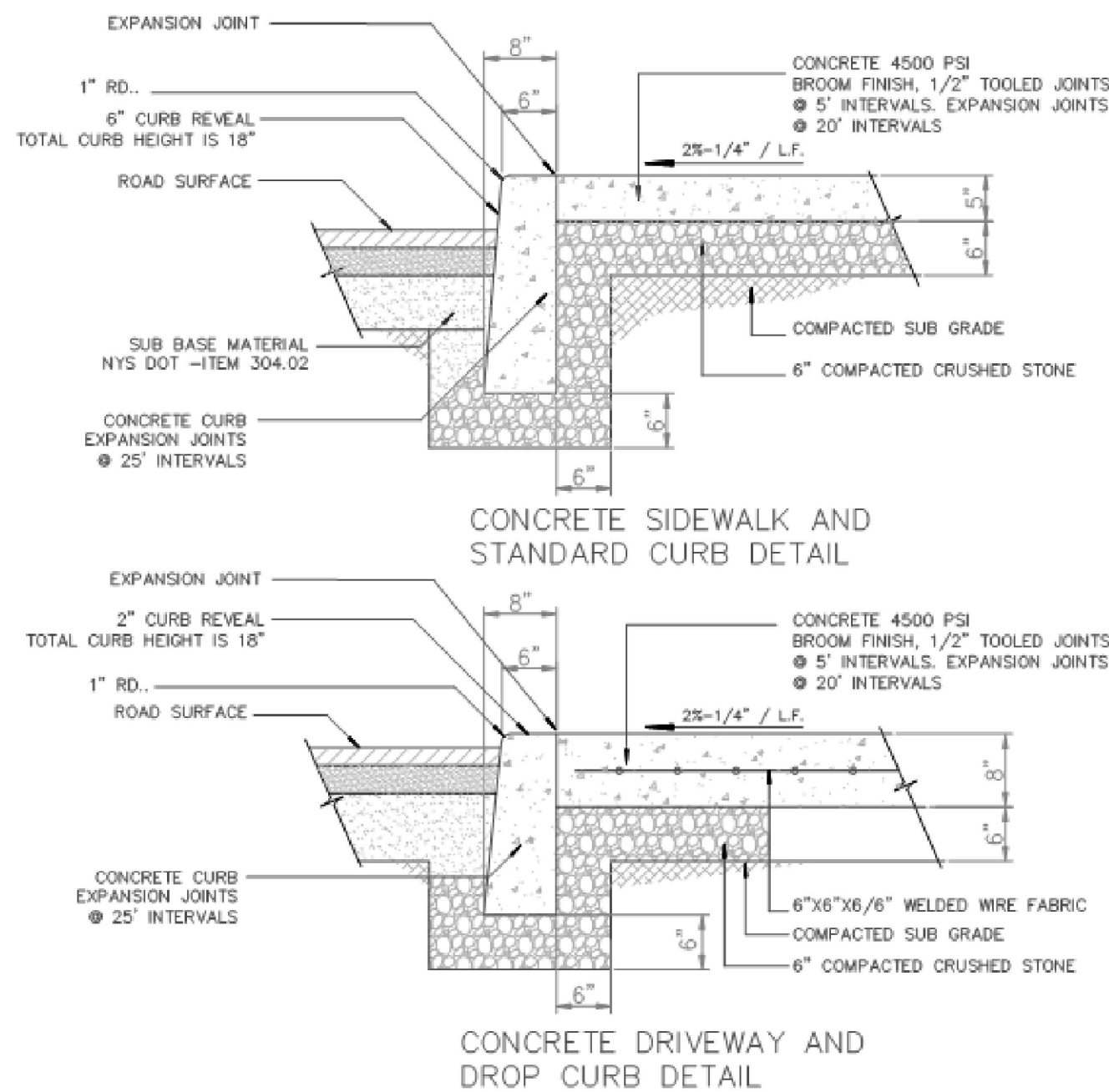
PETER GISOLFI ASSOCIATES



TYPICAL TRENCH SECTIONS AND PAVEMENT REPLACEMENT DETAILS FOR UTILITY INSTALLATIONS

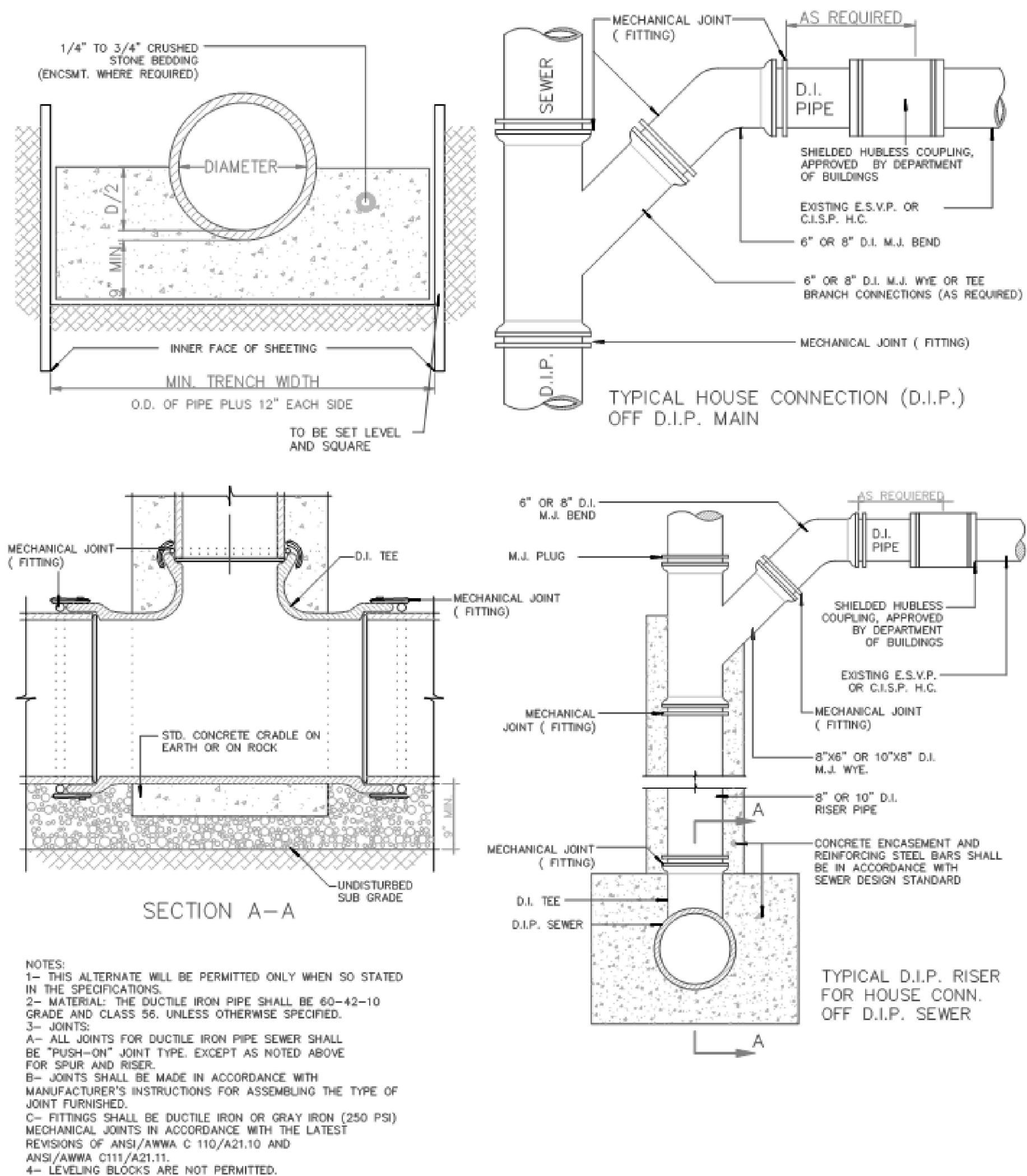


CONCRETE SIDEWALK AND CURB RESTORATION DETAIL



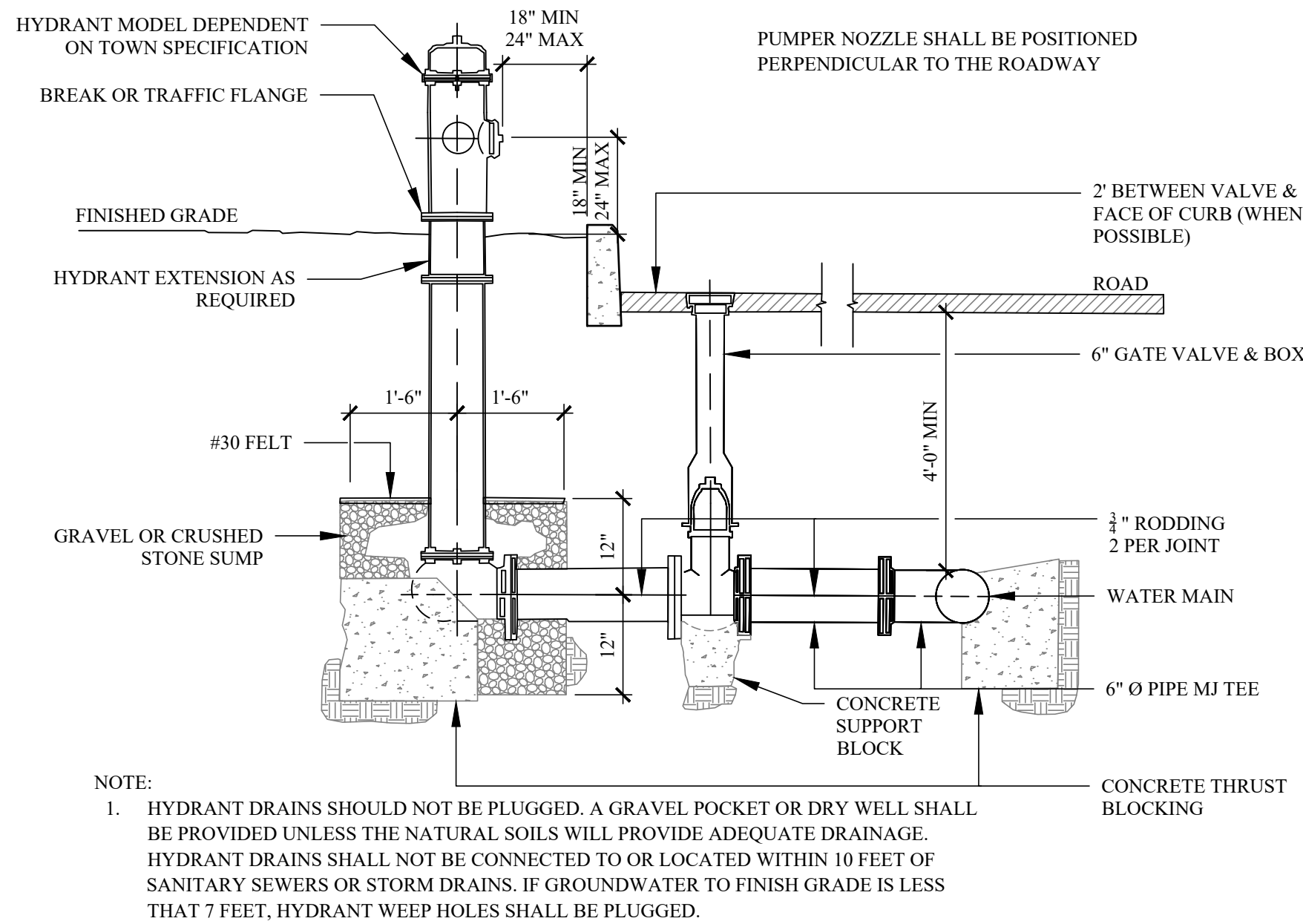
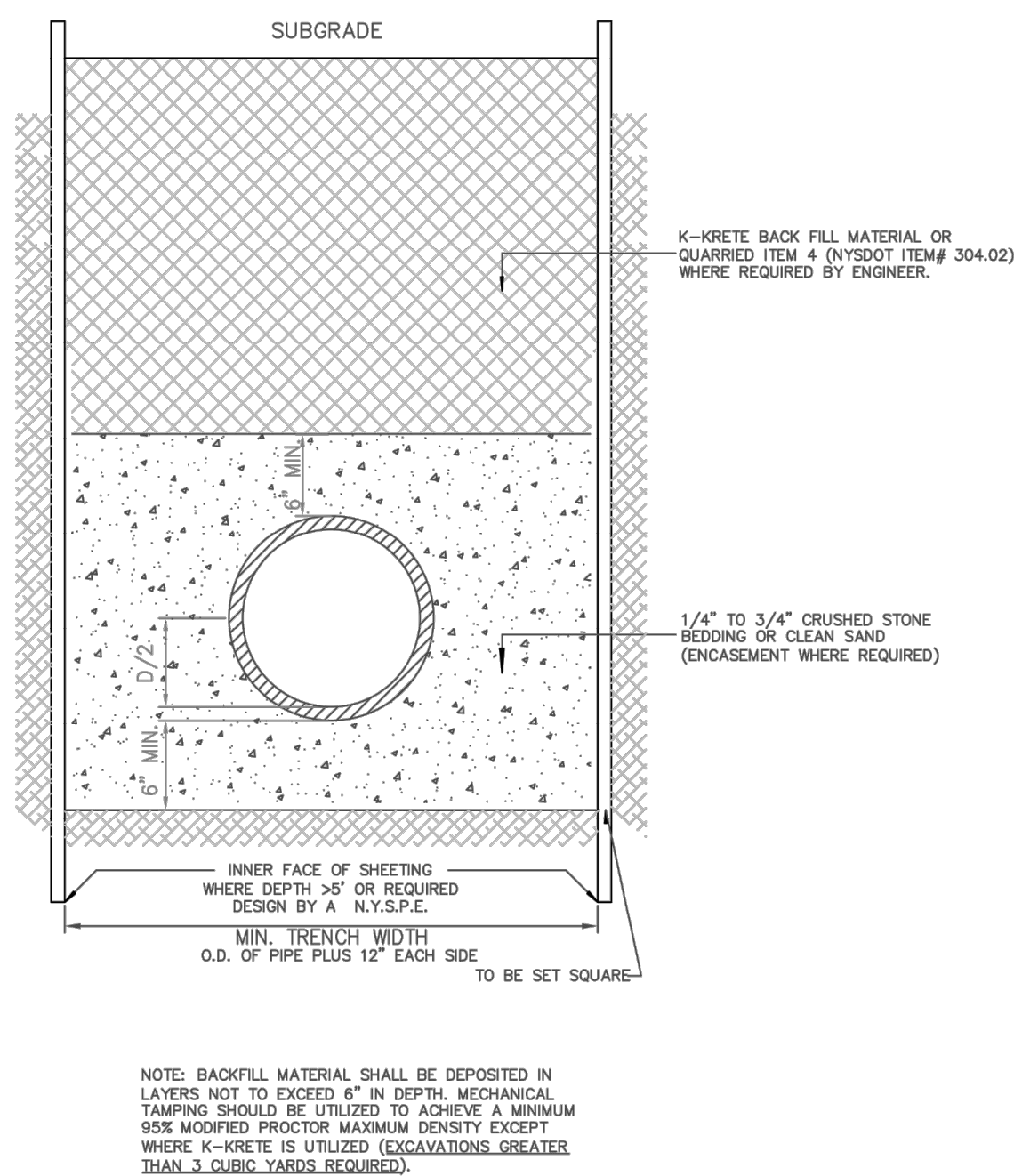
- GENERAL NOTES
1. CONTRACTOR MUST HAVE INSPECTION PRIOR TO PLACING GRAVEL OR POURING CONCRETE.
  2. NO WORK TO BE DONE ON WEEKENDS OR HOLIDAYS UNLESS INSPECTOR IS NOTIFIED AND ARRANGMENTS HAVE BEEN MADE WHERE AN INSPECTOR CAN BE PRESENT AT THE CONTRACTOR'S EXPENSE.
  3. ENTIRE WORK AREA TO BE KEPT CLEAN AND PROPERLY BARRICADED. A MINIMUM FOUR FEET OF PEDESTRIAN RIGHT OF WAY IS TO BE PROVIDED AND MAINTAINED AROUND THE CONSTRUCTION AREA. ALL DWELLINGS, UNITS AND BUSINESSES MUST HAVE PROPER ACCESS.
  4. NO ASH IS ALLOWED IN PLACE OF GRAVEL.
  5. ALL UTILITY CASTINGS MUST BE FLUSH WITH SIDEWALK SURFACE. NO TRIPPING HAZARDS OR ENCROACHMENTS ARE PERMITTED.
  6. NO TREE ROOTS ARE TO BE DAMAGED, CUT OR REMOVED WITHOUT CITY TREE INSPECTORS APPROVAL.

DUCTILE IRON PIPE STANDARD FOR DUCTILE IRON PIPE ALTERNATE

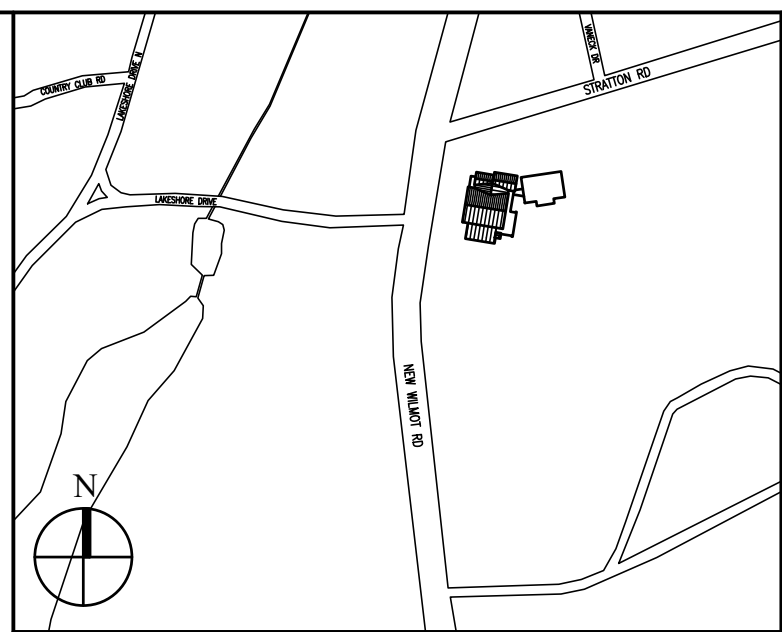


STANDARD CAST IRON HOOD AND STAINLESS STEEL HOOKS FOR CATCH BASINS

TYPICAL TRENCH SECTIONS AND BACKFILL DETAILS FOR CITY OF NEW ROCHELLE UTILITY EXTENSIONS



1 TYP. HYDRANT DETAIL  
C-100 SCALE: 1/2"=1'-0"



Key Plan (not to scale)

|                                             |            |                                      |
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| 1.                                          | 1/10/2020  | ISSUED FOR DD ESTIMATE               |
| No.                                         | Date       | Revision/Submission                  |
| <b>STRUCTURAL &amp; SITE Civil/Engineer</b> |            |                                      |
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Stamp

Project Title  
IONA PREPARATORY SCHOOL  
ADDITION AND ALTERATION TO THE  
PAUL VERNI FINE ARTS CENTER

Project Address  
IONA PREPARATORY SCHOOL  
255 Wilnot Road  
New Rochelle, NY 10804

Drawing Title  
TYPICAL DETAILS

| Scale | Job No. | Date       | Drawing No. |
|-------|---------|------------|-------------|
|       | 1618    | 04/03/2019 | C-303.00    |
| Drawn |         |            |             |

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