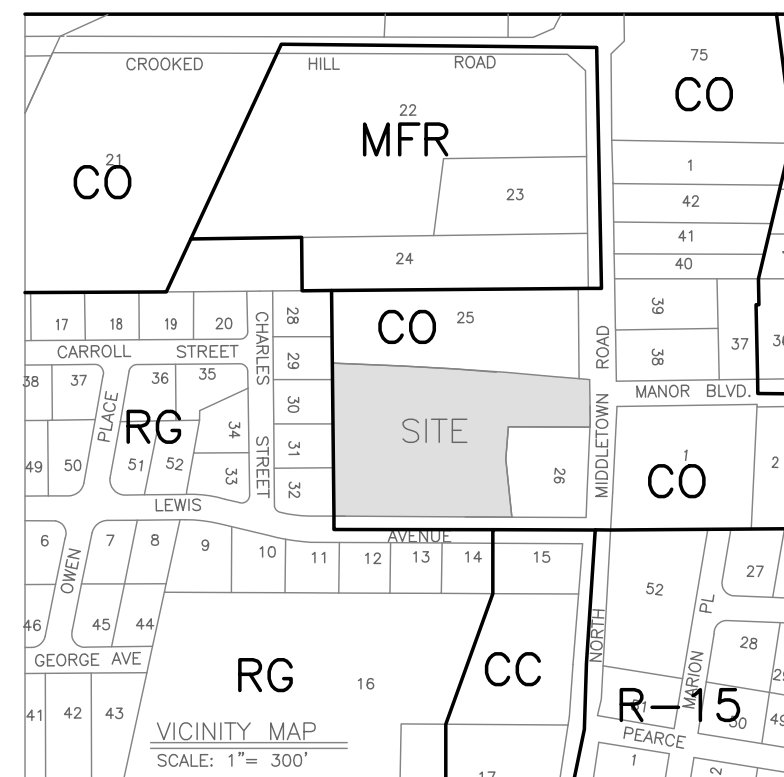


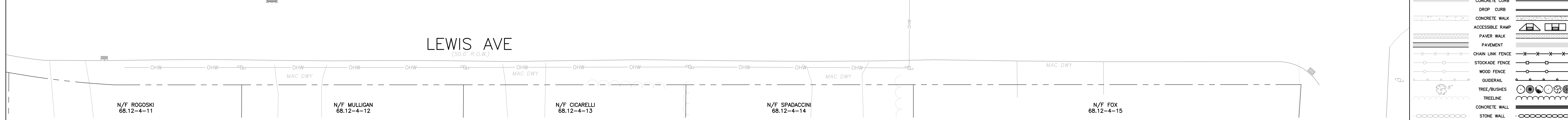
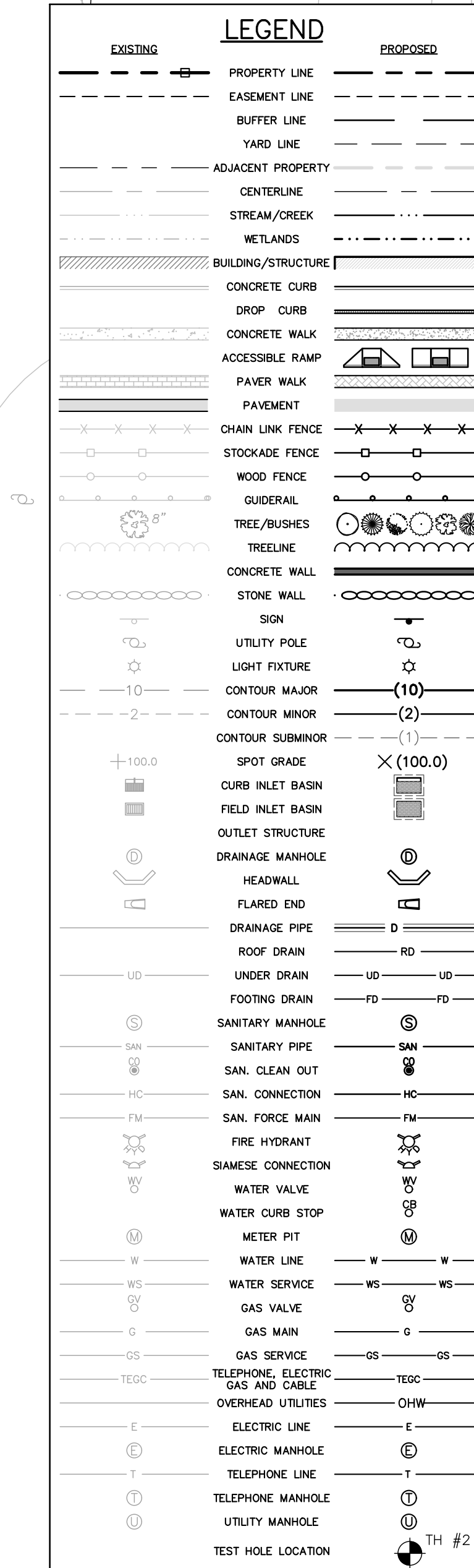
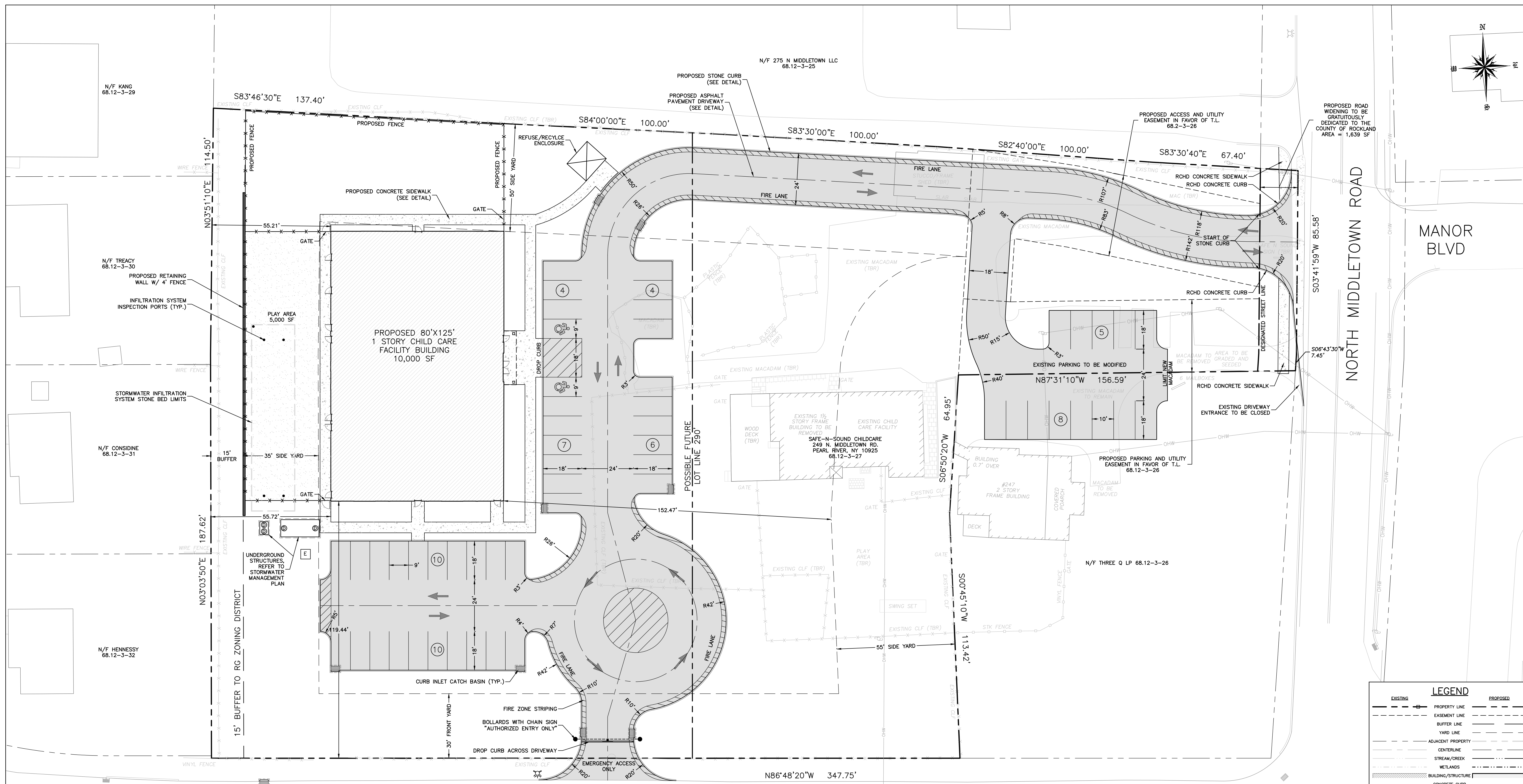
PROJECT:
SITE DEVELOPMENT PLAN FOR BRIGHT PATH KIDS
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION

APPLICANT:
BRIGHTPATH KIDS
2380 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR:
JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830



STANDARD NOTES:

- OWNER & APPLICANT: SAFE-N-SOUND CHILDCARE 249 N. MIDDLETOWN RD. PEARL RIVER, NY 10925
- TAX MAP NUMBER: 68.12-3-27
- LOT AREA: 116,960 SF
- DATUM: NAVD 88
- ZONING DISTRICT: CO: COMMERCIAL OFFICE
- LOT DRAINAGE SHALL CONSTITUTE EASEMENTS RUNNING WITH THE LAND AND SHALL NOT BE DISTURBED
- ALL NEW UTILITIES, INCLUDING ELECTRIC AND TELEPHONE, SHALL BE INSTALLED UNDERGROUND.
- NO BUILDING PERMIT SHALL BE ISSUED UNTIL SEWER ARRANGEMENTS HAVE BEEN APPROVED BY THE ROCKLAND COUNTY HEALTH DEPARTMENT OR THE TOWN OF ORANGETOWN.
- NO BUILDING PERMIT SHALL BE ISSUED UNTIL SITE AND ARCHITECTURAL PLANS HAVE BEEN APPROVED BY ACABOR, AND SITE AND DRAINAGE PLANS BY THE ORANGETOWN PLANNING BOARD.
- THIS PLAN DOES NOT CONFLICT WITH THE COUNTY OFFICIAL MAP AND HAS BEEN APPROVED IN THE MANNER SPECIFIED IN SECTION 239 L&M OF THE GENERAL MUNICIPAL LAW.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES.
- ALL PROPOSED RETAINING WALLS GREATER THAN 4 FEET MUST BE DESIGNED, SIGNED, AND PLANS SEALED BY A NEW YORK STATE LICENSED PROFESSIONAL ENGINEER, AND SUBMITTED TO THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING AND THE BUILDING DEPARTMENT FOR REVIEW AND APPROVAL. UPON COMPLETION OF THE WORK, SIGNED AND SEALED "AS-BUILT" OF THE WALLS SHALL BE SUBMITTED TO BOTH DEPARTMENTS, CERTIFYING THAT THE WALLS WERE CONSTRUCTED IN ACCORDANCE WITH THE DESIGN PLANS.
- ALL LANDSCAPING SHOWN ON THE SITE PLAN SHALL BE MAINTAINED IN A VIGOROUS GROWING CONDITION THROUGHOUT THE DURATION OF THE USE OF THIS SITE. ANY PLANTS NOT SO MAINTAINED SHALL BE REPLACED WITH NEW PLANTS AT THE BEGINNING OF THE NEXT IMMEDIATELY GROWING SEASON.
- IF THE CONTRACTOR'S TRAILER, IF ANY IS PROPOSED, SHALL BE LOCATED AS APPROVED BY THE ORANGETOWN PLANNING BOARD.
- IF THE APPLICANT, DURING THE COURSE OF CONSTRUCTION, ENCOUNTERS SUCH CONDITIONS AS FLOOD AREAS, UNDERGROUND WATER, SOFT OR SILTY AREAS, IMPROPER DRAINAGE, OR ANY OTHER UNUSUAL CIRCUMSTANCES OR CONDITIONS THAT WERE NOT FORESEEN IN THE

ORIGINAL PLANNING, SUCH CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING. THE APPLICANTS SHALL SUBMIT THEIR RECOMMENDATIONS AS TO THE SPECIAL TREATMENT TO BE GIVEN TO SUCH AREAS TO SECURE ADEQUATE, PERMANENT, AND SATISFACTORY CONSTRUCTION. THE DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING SHALL INVESTIGATE THE CONDITION OR CONDITIONS, AND SHALL EITHER APPROVE THE APPLICANT'S RECOMMENDATIONS TO CORRECT THE CONDITIONS, OR ORDER A MODIFICATION THEREOF, OR ISSUE ITS OWN SPECIFICATIONS FOR THE CORRECTION OF THE CONDITIONS. IN THE EVENT OF THE APPLICANT'S DISAGREEMENT WITH THE DECISION OF THE DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING, OR IN THE EVENT OF A SIGNIFICANT CHANGE RESULTING TO THE PLAN OR ANY CHANGE THAT INVOLVES A WETLAND, REGULATED AREA, THE MATTER SHALL BE DECIDED BY THE AGENCY WITH JURISDICTION IN THAT AREA.

- PERMANENT VEGETATION COVER OF DISTURBED AREAS SHALL BE ESTABLISHED ON THE SITE WITHIN 30 DAYS OF THE COMPLETION OF CONSTRUCTION
- THE PLANNING BOARD SHALL RETAIN JURISDICTION OVER LIGHTING, LANDSCAPING, SIGNS AND REFUSE CONTROL.
- AT LEAST ONE WEEK PRIOR TO THE COMMENCEMENT OF ANY WORK, INCLUDING THE INSTALLATION OF EROSION CONTROL DEVICES OR THE REMOVAL OF TREES & VEGETATION, A PRE-CONSTRUCTION MEETING MUST BE HELD WITH THE TOWN OF ORANGETOWN DEME, SUPT. OF HIGHWAYS AND THE OFFICE OF BUILDING, ZONING & PLANNING ADMINISTRATION AND ENFORCEMENT. IT IS THE RESPONSIBILITY AND OBLIGATION OF THE PROPERTY OWNER TO ARRANGE SUCH A MEETING.
- TREE PROTECTION: THE TREE PROTECTION AND PRESERVATION GUIDELINES ADOPTED PURSUANT TO SECTION 21-24 OF THE LAND DEVELOPMENT REGULATIONS OF THE TOWN OF ORANGETOWN WILL BE IMPLEMENTED IN ORDER TO PROTECT AND PRESERVE BOTH INDIVIDUAL SPECIMEN TREES AND BUFFER AREAS WITH MANY TREES STEPS THAT WILL BE TAKEN TO PRESERVE 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 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 THE METHOD CHOSEN SHOULD BE BASED ON PROVIDING THE MAXIMUM PROTECTION ZONE POSSIBLE. A BARRIER OF SNOW FENCE OR EQUAL IS TO BE PLACED AND MAINTAINED ONE YARD BEYOND THE ESTABLISHED

TREE PROTECTION ZONE. IF IT IS AGREED THAT THE TREE PROTECTION ZONE OF A SELECTED TREE MUST BE VIOLATED, ONE OF THE FOLLOWING METHODS MUST BE EMPLOYED TO MITIGATE THE IMPACT:

- LIGHT TO HEAVY IMPACTS - MINIMUM OF NINE INCHES OF WOOD CHIPS INSTALLED IN THE AREA TO BE PROTECTED. CHIPS SHALL BE REMOVED UPON COMPLETION OF WORK.
- LIGHT IMPACTS ONLY - INSTALLATION OF 3/4 INCH OF PLYWOOD OR BOARDS, OR EQUAL OVER THE AREA TO BE PROTECTED. THE BUILDER OR ITS AGENT MAY NOT CHANGE GRADE WITHIN THE TREE PROTECTION ZONE OF A PRESERVED TREE UNLESS SUCH GRADE CHANGE HAS RECEIVED FINAL APPROVAL FROM THE PLANNING BOARD. IF THE GRADE LEVEL IS TO BE CHANGED MORE THAN SIX (6) INCHES, TREES DESIGNATED TO BE PRESERVED SHALL BE WELLED AND/OR PRESERVED IN A RAISED BED, WITH THE TREE WELL RADIUS OF THREE (3) FEET LARGER THAN THE TREE CANOPY.

- PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE APPLICANT SHALL INSTALL THE SOIL EROSION & SEDIMENTATION CONTROL AS REQUIRED BY THE PLANNING BOARD. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE TOWN D.E.M.E. SHALL INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION & SEDIMENTATION CONTROL MEASURES. THE APPLICANT SHALL CONTACT DEME AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
- ADDITIONAL CERTIFICATION, BY AN APPROPRIATE LICENSED OR CERTIFIED DESIGN PROFESSIONAL SHALL BE REQUIRED FOR ALL MATTERS BEFORE THE PLANNING BOARD INDICATING THAT THE DRAWINGS AND PROJECT ARE IN COMPLIANCE WITH THE STORM WATER MANAGEMENT PHASE II REGULATIONS. A SWPPP WILL BE REQUIRED FOR MORE THAN 1 ACRE OF DISTURBANCE.
- A ROCKLAND COUNTY HIGHWAY DEPARTMENT WORK PERMIT WILL BE REQUIRED PRIOR TO THE COMMENCEMENT OF ON-SITE IMPROVEMENT. THE APPLICANT SHALL COMPLY IN THE PLANNING AND/OR DEVELOPMENT PROCESS.
- PRIOR TO THE COMMENCEMENT OF ANY SITE WORK, INCLUDING THE REMOVAL OF TREES, THE APPLICANT SHALL INSTALL THE SOIL EROSION AND SEDIMENTATION CONTROL AS REQUIRED BY THE PLANNING BOARD. PRIOR TO THE AUTHORIZATION TO PROCEED WITH ANY PHASE OF THE SITE WORK, THE TOWN OF ORANGETOWN DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING (DEME) SHALL INSPECT THE INSTALLATION OF ALL REQUIRED SOIL EROSION AND SEDIMENTATION CONTROL MEASURES. THE APPLICANT SHALL CONTACT DEME AT LEAST 48 HOURS IN ADVANCE FOR AN INSPECTION.
- EXISTING CHILD CARE FACILITY TO REMAIN UNTIL PROPOSED BUILDING IS COMPLETE AND SHALL THEN BE REMOVED AS INDICATED HEREON.

BULK TABLE ZONE CO (COMMERCIAL - OFFICE) USE GROUP NN (CHILD DAY CARE)										
REQUIRED	MAX FLOOR AREA RATIO	MIN LOT AREA	MIN LOT WIDTH	MIN STREET FRONTAGE	MIN FRONT YARD	MIN SIDE YARD	TOTAL SIDE YARD	MIN REAR YARD	MIN BLDG HEIGHT	MAX BLDG HEIGHT
0.20*	0.20*	30,000 SF	150'	50'	30'	55'	90'	50'	6'	PER FOOT FROM FRONT LOT LINE
PROVIDED	0.086	116,960 SF GROSS	290'	440.78'	119.6'	55.7'	263'	50'	25'	±

* MAXIMUM LAND COVERAGE SHALL NOT EXCEED 75%, INCLUDING BUILDINGS, PARKING, ROAD AND ROAD WIDENING. THE OPEN AREA SHALL BE A MINIMUM OF 25%. REQUIRED BUFFERS: 15' AT WEST PROPERTY LINE.

** 116,960 SF = 50% ROAD WIDENING = 116,140 SF NET

PARKING REQUIREMENTS:
ONE SPACE PER STAFF MEMBER, PLUS 1 PARKING SPACE PER 10 CHILDREN
REQUIRED: 20 STAFF, 134 CHILDREN; REQ'D=34 PROVIDED=41
PROVIDED SPACES FOR T.L. 68.12-3-26 = 13 SPACES

LAND COVERAGE (IMPERVIOUS)
TAX LOT 68.12-3-27
TOTAL IMPERVIOUS = 47,652 SF
EXIST IMPERVIOUS = 22,739 SF
AMOUNT TO BE MITIGATED = 24,913 SF

EXISTING AND PROPOSED PERVIOUS AND IMPERVIOUS AREAS INCLUDE PARKING LOT MODIFICATIONS TO #247 NORTH MIDDLETOWN ROAD (TAX LOT# 68.12-3-26)

COVERAGE COMPLIANCE CALCULATION:
NET LOT AREA = 116,140 SF
COVERAGE % = 47,652 SF / 116,140 SF = 41%

DISTRICTS:
ZONING: CO
SCHOOL: NANUET
UPSD FIRE: PEARL RIVER
LIGHTING: ORANGETOWN
SEWER: ORANGETOWN WATER
VEDLIA WATER

AREA OF DISTURBANCE
114,142 S.F. (2.62 AC)

- LIST OF DRAWINGS:**
- SITE LAYOUT PLAN
 - GRADING AND UTILITY
 - STORMWATER MANAGEMENT PLAN
 - TREE PRESERVATION / SOIL EROSION & SEDIMENT CONTROL PLAN
 - CONSTRUCTION DETAILS (1 OF 2)
 - CONSTRUCTION DETAILS (2 OF 2)
 - LIGHTING PLAN
 - LANDSCAPING PLAN
 - EXISTING CONDITIONS PLAN
 - 200' RADIUS EXHIBIT

REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
1	PROPOSED HYDRANT	JG	3.1.2022
	PRELIMINARY PB APPROVAL SUBMISSION	JG	1.5.2022



DISCLAIMER:
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PROJECT:
SITE DEVELOPMENT PLAN FOR BRIGHT PATH KIDS

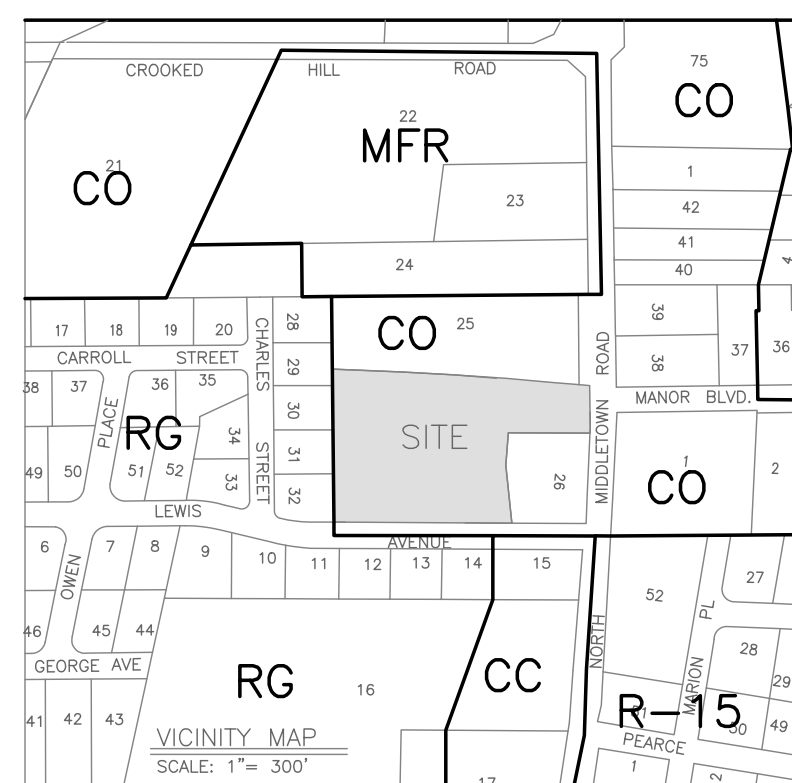
SCALE: 1" = 20'

SHEET TITLE:
SITE LAYOUT PLAN

DRAWN BY: JG/MS/GM CHECKED BY: GM
DATE: 1.5.2022 PROJECT NO: 2303

SHEET NUMBER:
1

PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION

APPLICANT:
BRIGHTPATH KIDS
3280 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR:
JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830

- SEWER NOTES:**
- ALL SEWER CONNECTIONS SHALL BE APPROVED BY THE ORANGETOWN DEPT. OF ENVIRONMENTAL MANAGEMENT AND ENGINEERING. THE TOWN OF ORANGETOWN SEWER INSPECTOR SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY SANITARY SEWER WORK BEING PERFORMED.
 - SANITARY SEWER INFILTRATION & EXFILTRATION LIMIT IS 100 GALLONS PER INCH DIAMETER PER MILE PER DAY. CERTIFICATES OF OCCUPANCY MAY NOT BE REQUESTED, NOR ANY OCCUPANCY PERMITTED, UNTIL A CERTIFICATE OF COMPLIANCE CERTIFIED BY A LICENSED P.E. PROFESSIONAL ENGINEER IS SUBMITTED TO AND APPROVED BY THE TOWN OF ORANGETOWN. COPIES OF THIS CERTIFICATE SHOULD ALSO BE SENT TO THE ROCKLAND COUNTY DEPARTMENT OF HEALTH.
 - ALL BUILDINGS SHALL BE SERVED BY GRAVITY SEWER CONNECTIONS WITH A MIN. SLOPE OF 2%.
 - BUILDING SEWER AND WATER SERVICE LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MIN. SEPARATION OF 10 FEET.

REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
1	PROPOSED HYDRANT	JG	3.1.2022
	PRELIMINARY PB APPROVAL SUBMISSION	JG	1.5.2022

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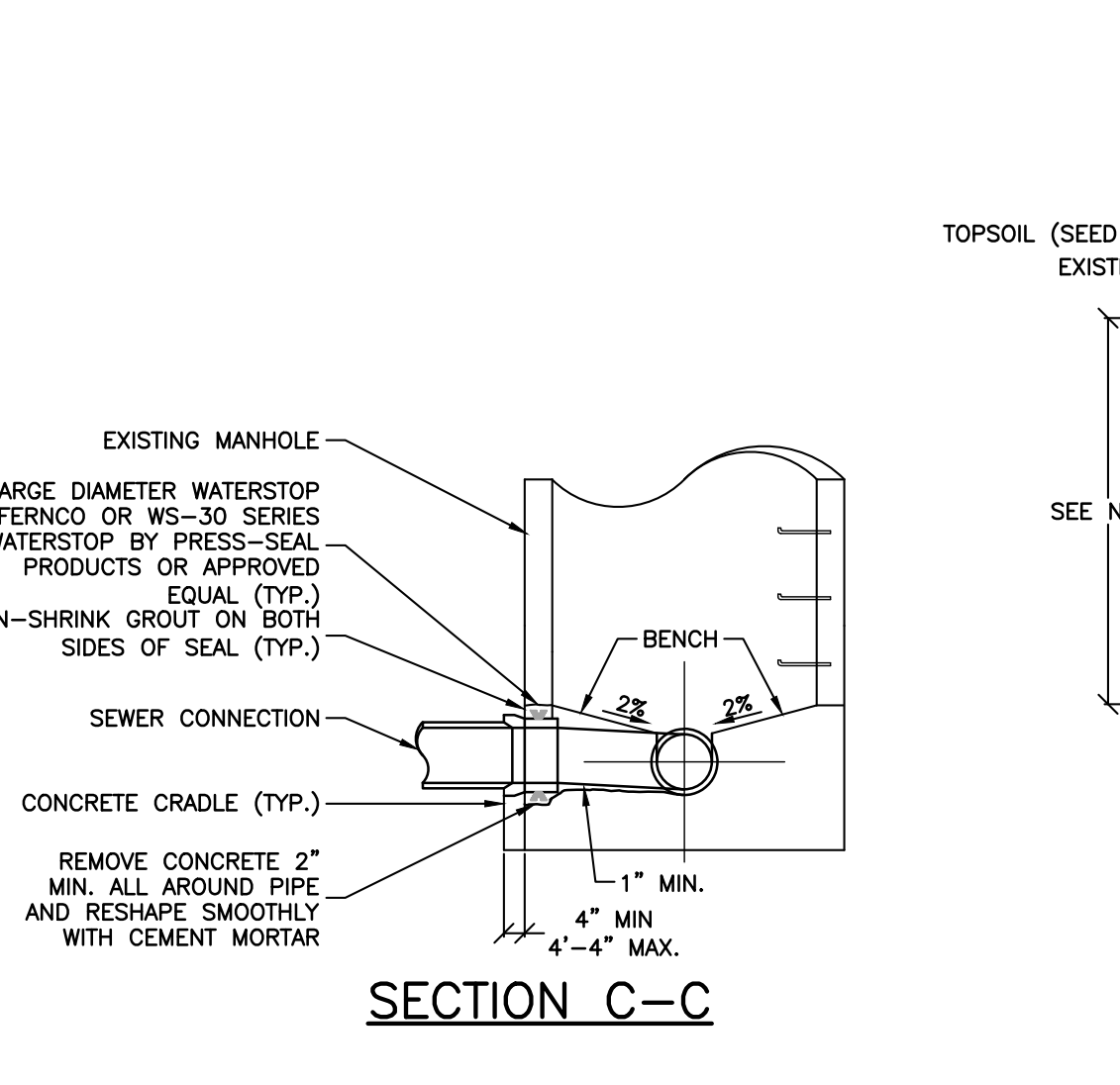
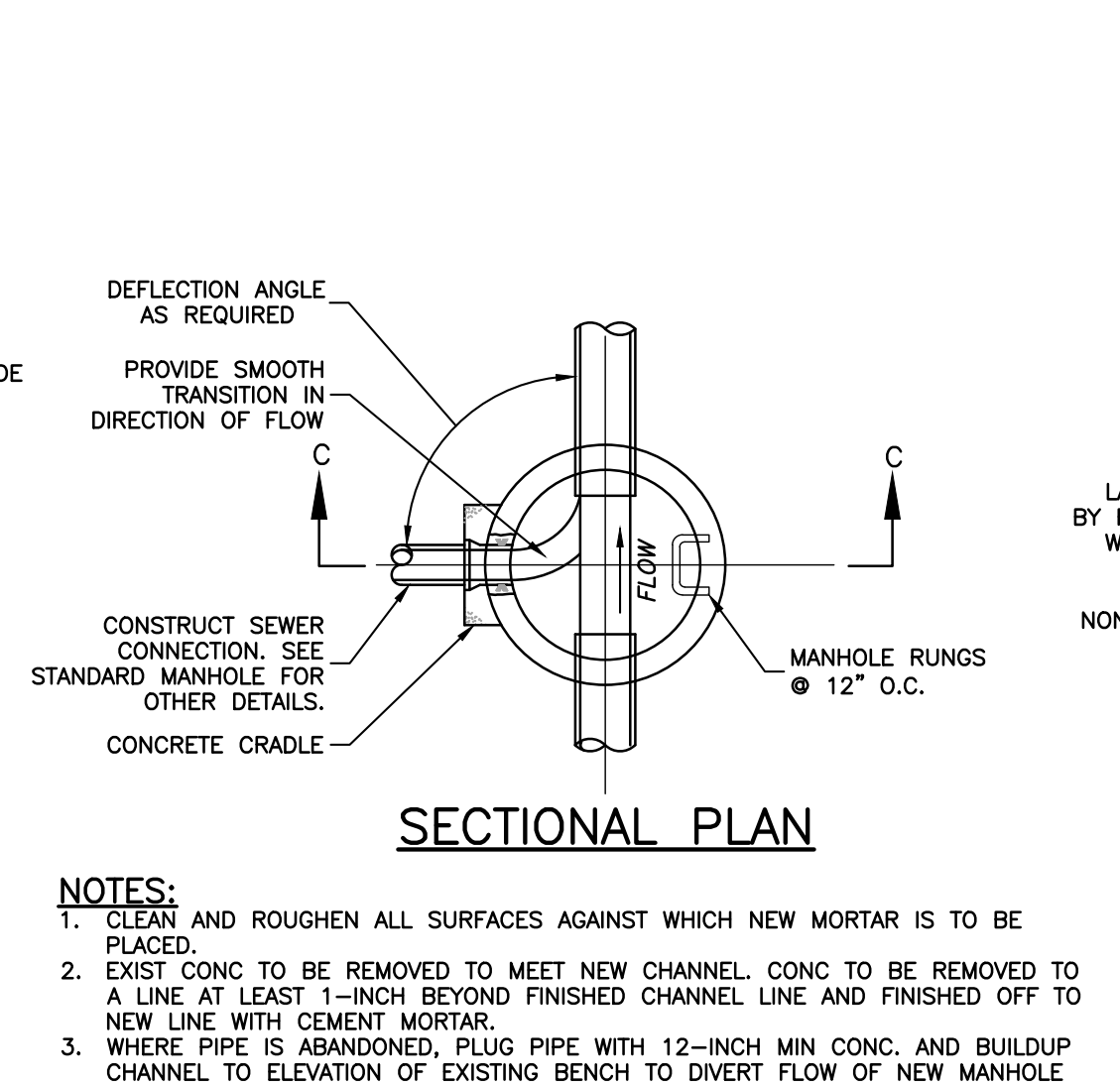
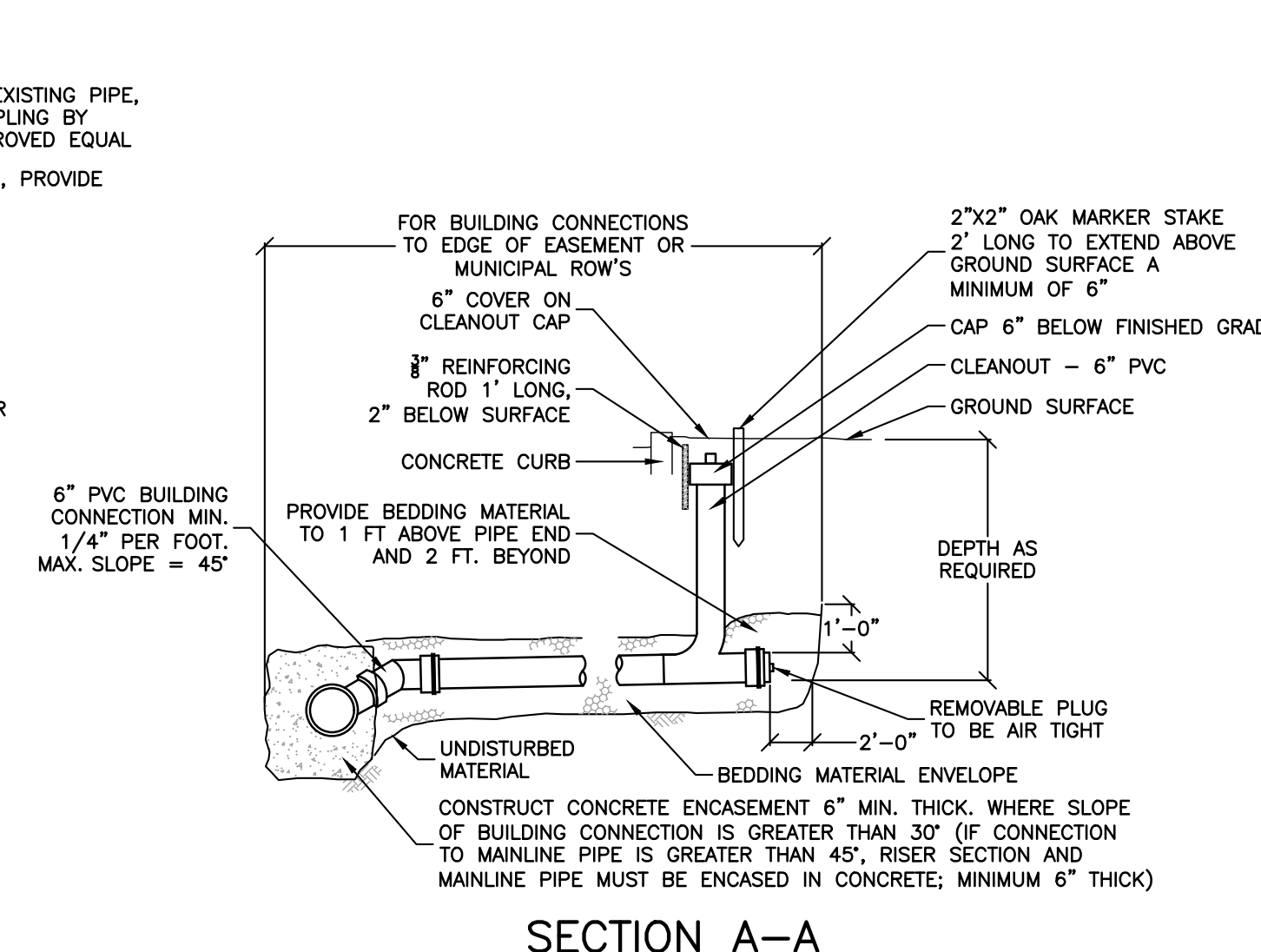
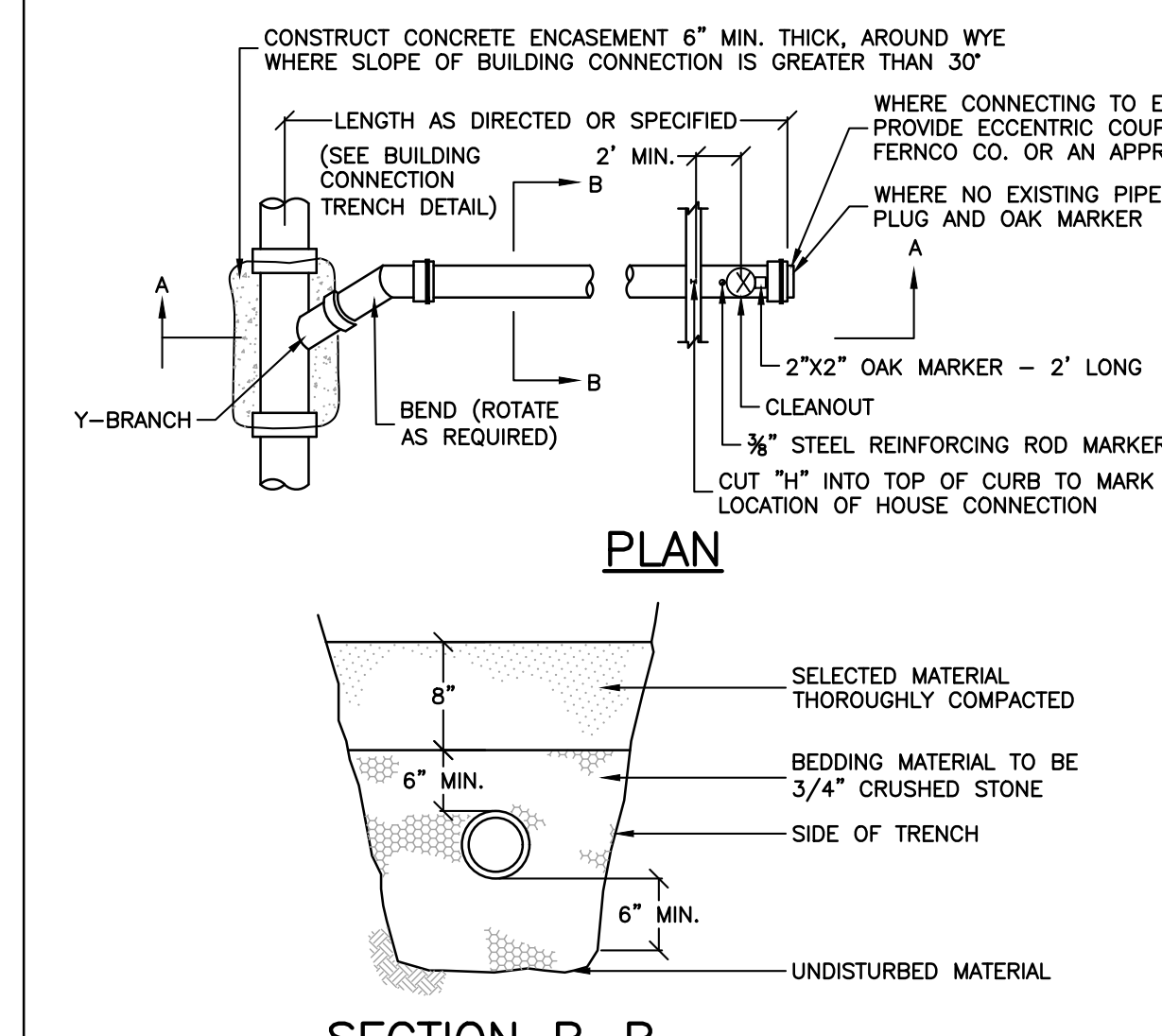
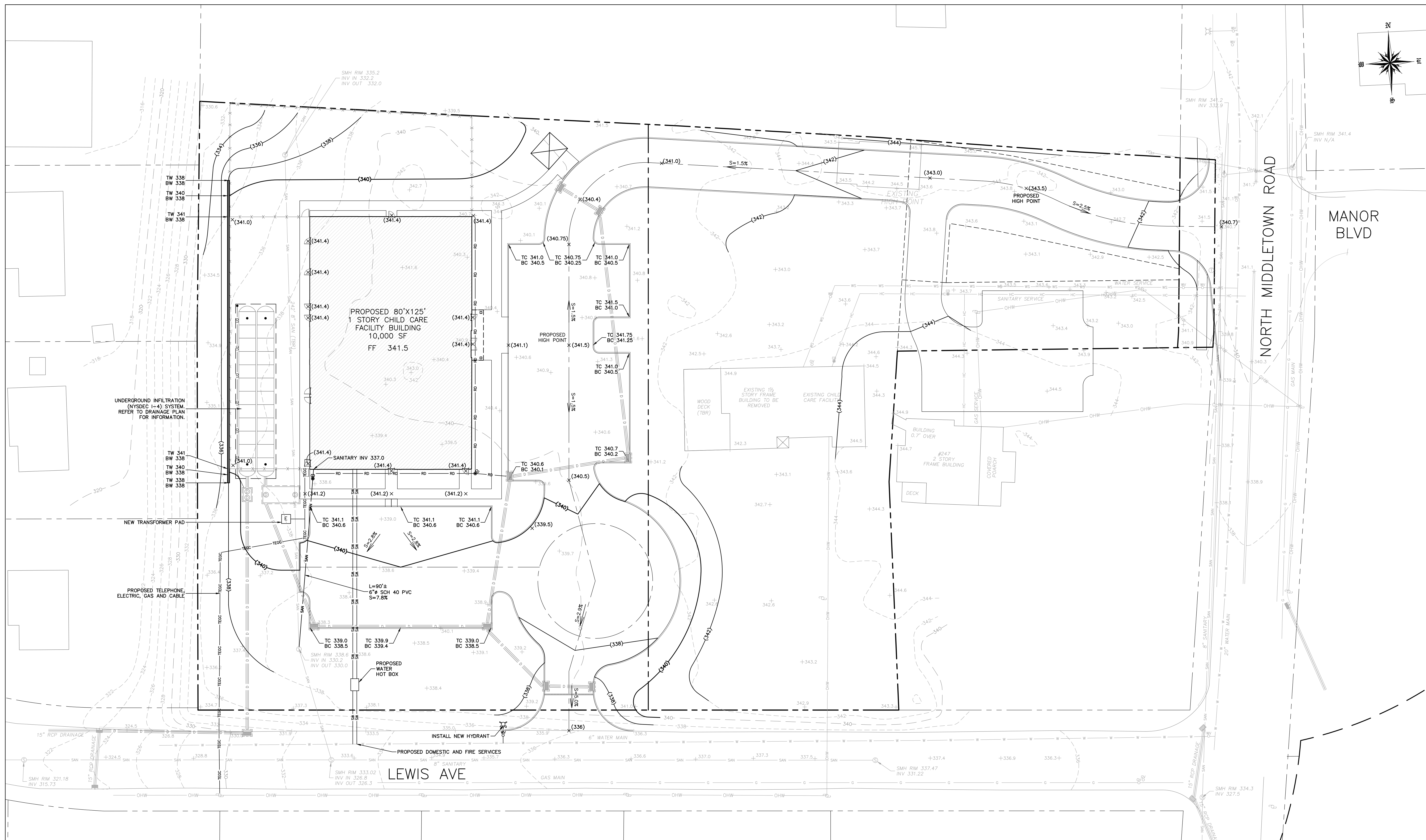
DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE E.P.S. EDUCATION LAW, ARTICLE 145, SECTION 209, SUBSECTION 2.

PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**

SCALE: 1" = 20'

SHEET TITLE:
**GRADING AND
UTILITY PLAN**

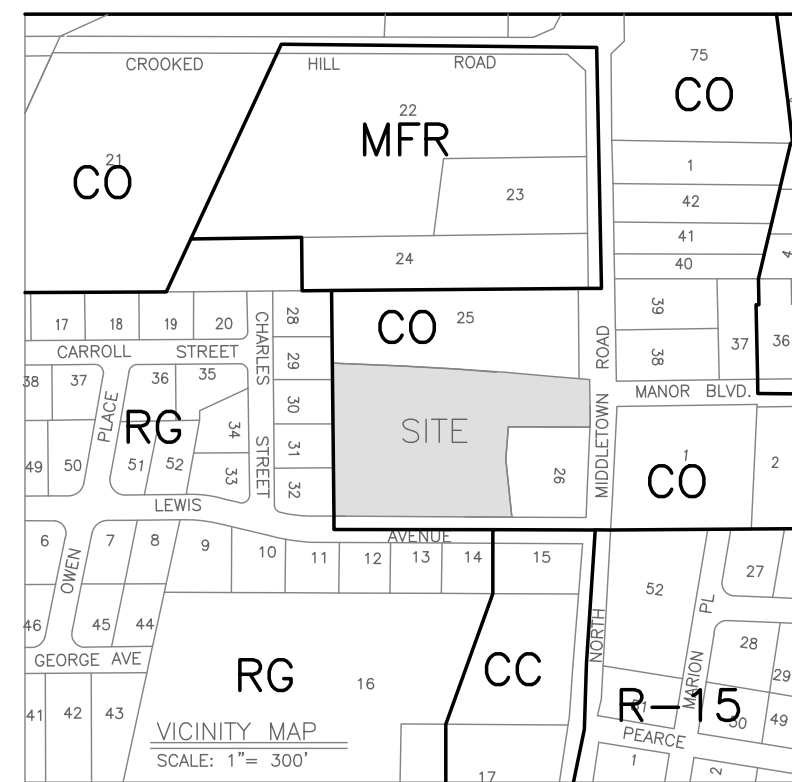
DRAWN BY: JG/MS/GM CHECKED BY: GM
DATE: 1.5.2022 PROJECT NO: 2303
SHEET NUMBER:



BUILDING CONNECTION DETAILS
N.T.S.

SEWER CONNECTION TO EXISTING MANHOLE DETAILS
N.T.S.

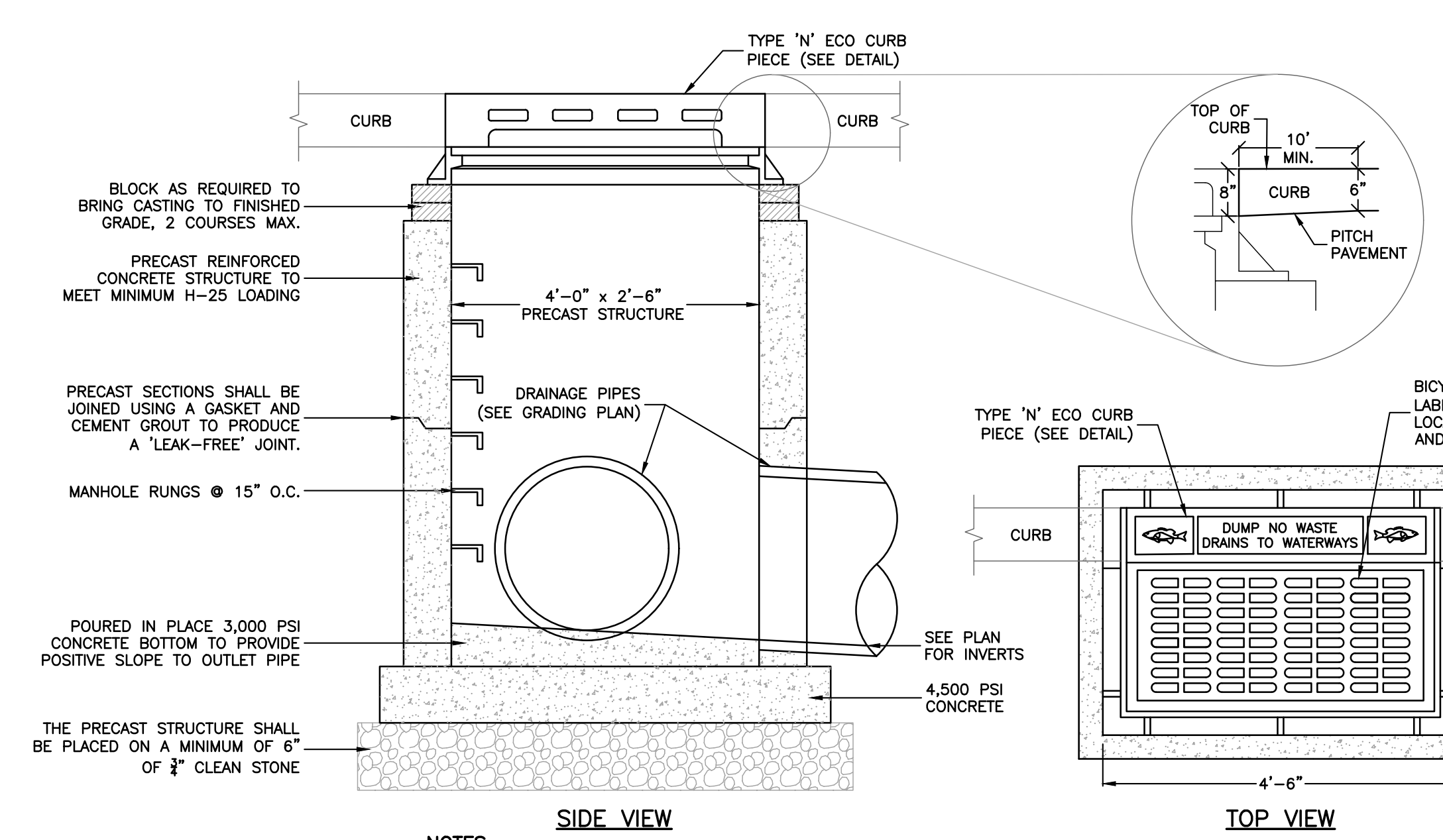
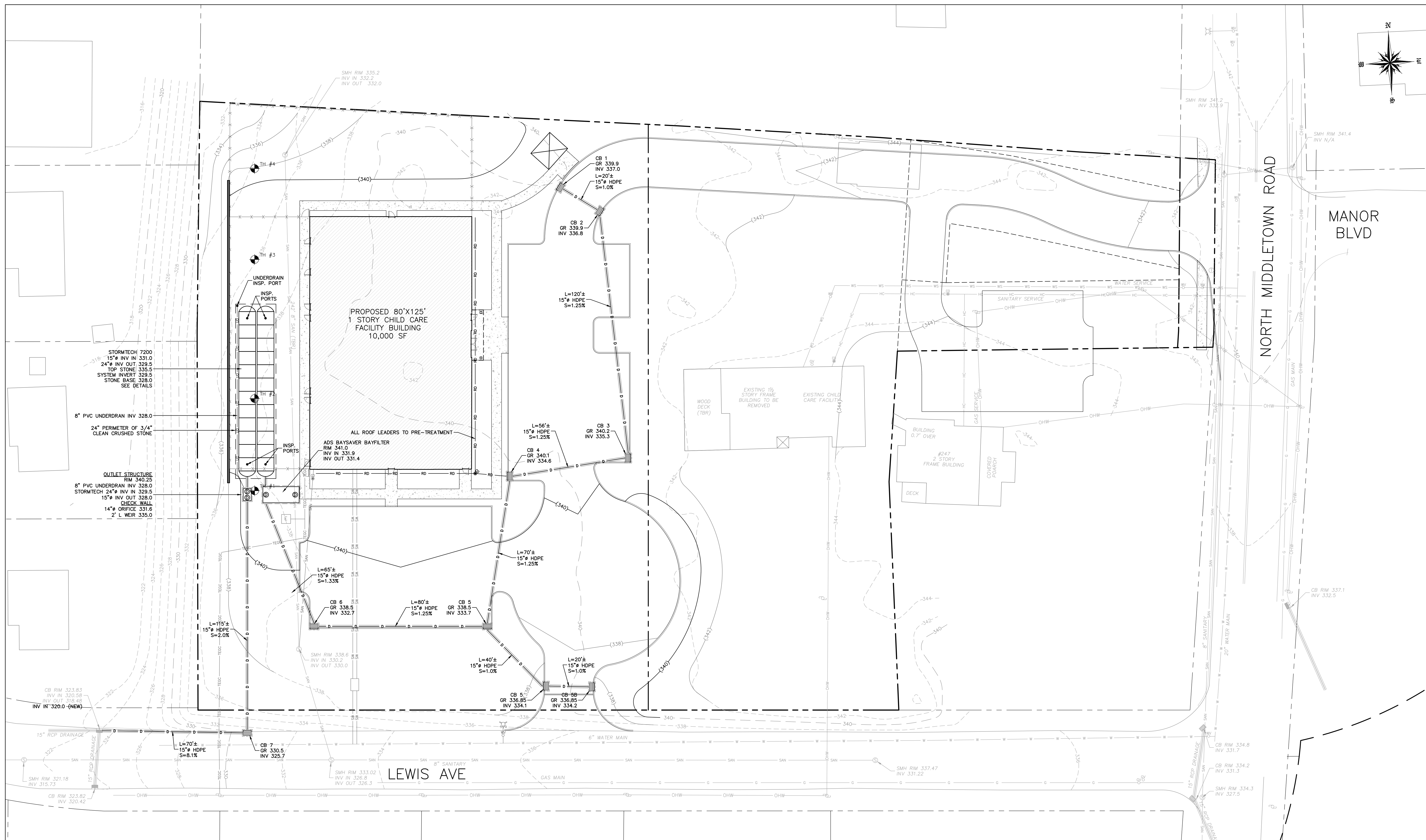
UTILITY TRENCH DETAIL
N.T.S.



PROJECT LOCATION

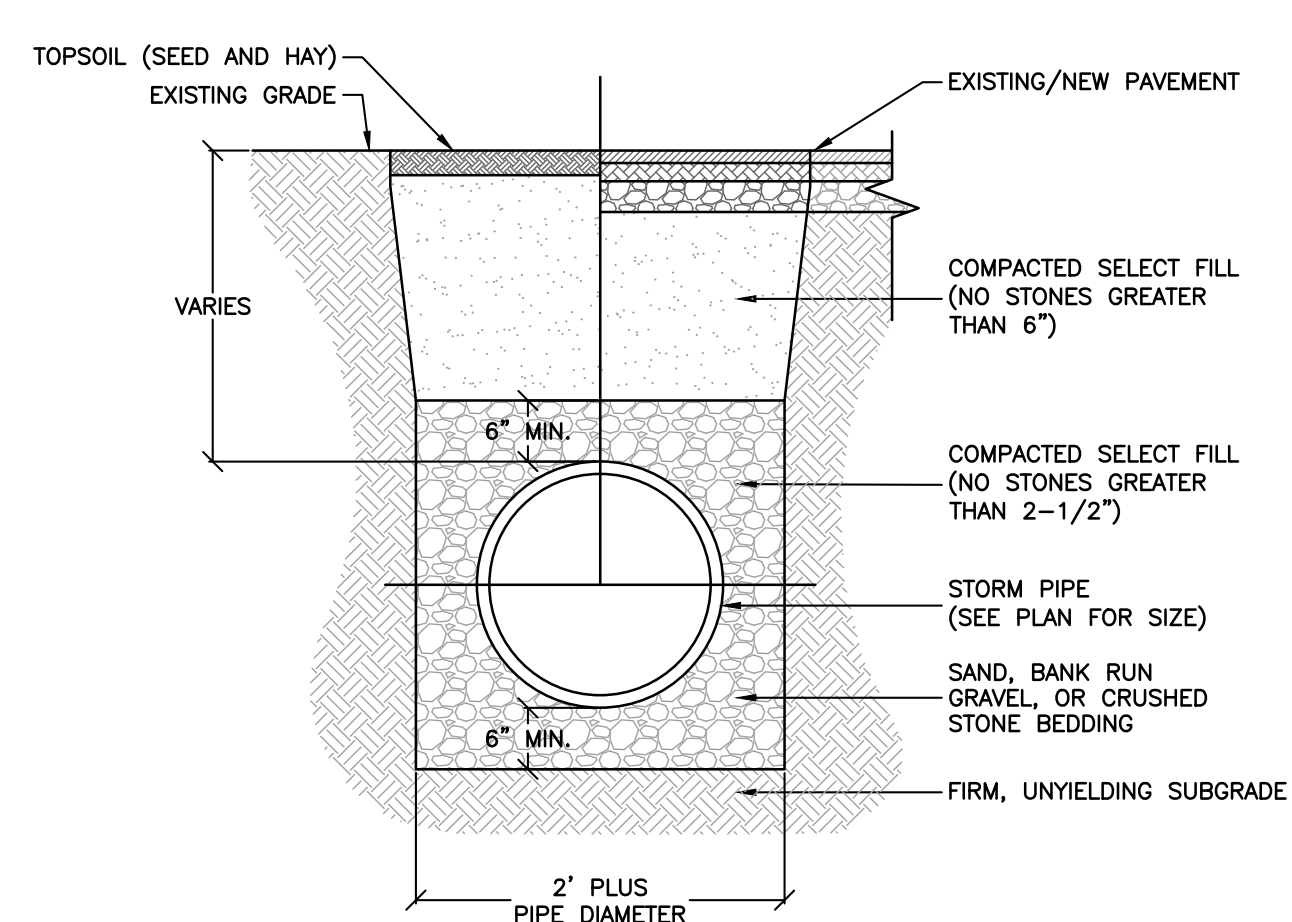
APPLICANT:
BRIGHT PATH KIDS
3280 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR:
JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830



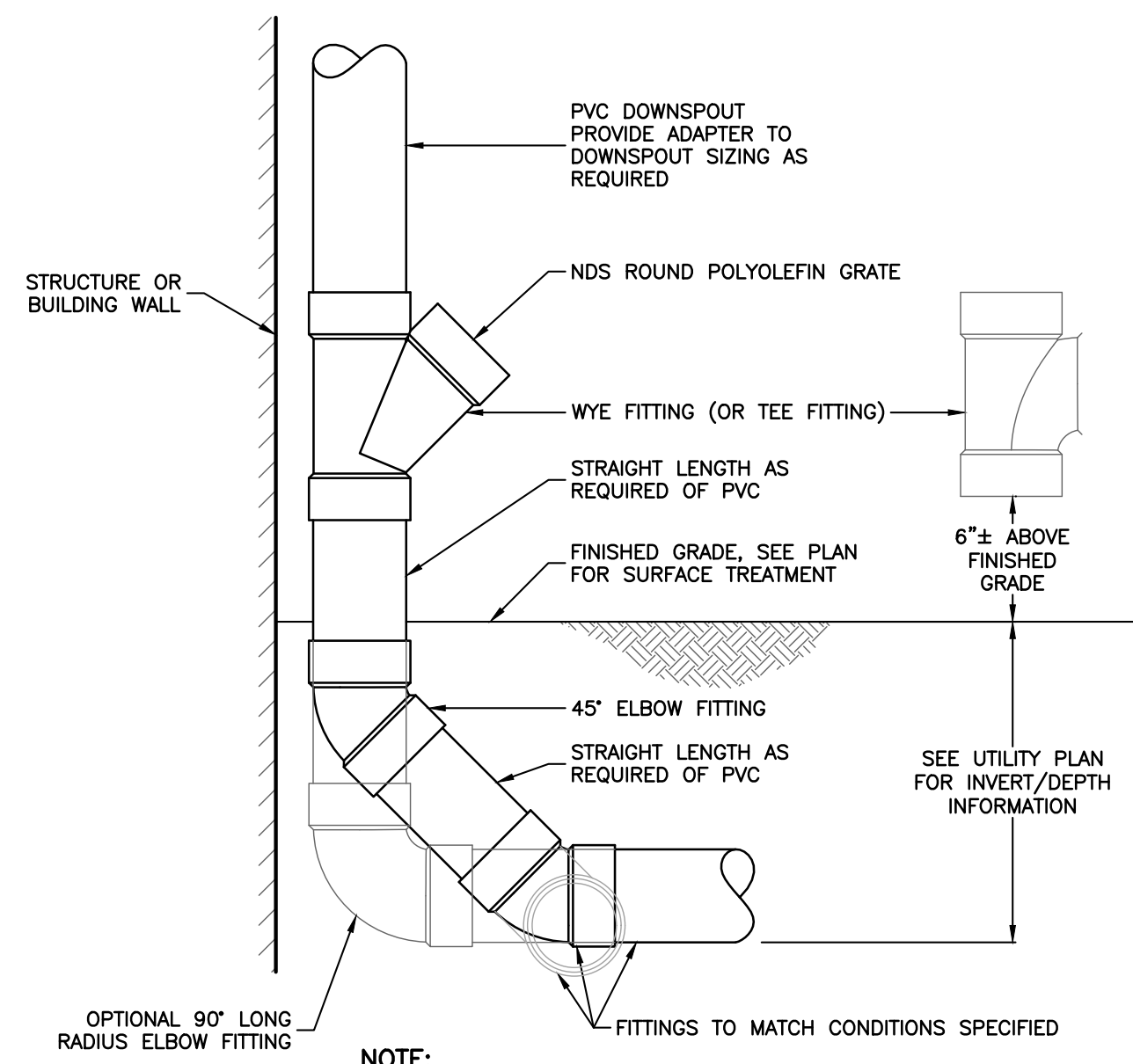
NOTES:
1. STRUCTURE TO BE CONSTRUCTED OF REINFORCED PRECAST CONCRETE.
2. ALL JOINTS TO BE WATER-TIGHT.
3. SUBGRADE BENEATH STRUCTURE SHALL BE LEVELED AND COMPACTED AS NECESSARY PRIOR TO INSTALLING STRUCTURE.

CATCH BASIN CURB INLET DETAIL
N.T.S.



NOTES:
1. ALL PIPE SYSTEM INSTALLATIONS SHALL MEET ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
2. ALL HDPE PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2221, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER RAFTY FLOW APPLICATIONS" (LATEST EDITION).
3. LL RCP PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C76-15, "STANDARD SPECIFICATION FOR REINFORCED CONCRETE/CLUTTER, STORM DRAIN, AND SEWER PIPE" (LATEST EDITION).
4. FOR NON HDPE OR RCP PIPE INSTALLATIONS, CONTRACTOR SHALL INSTALL PIPE IN ACCORDANCE WITH ALL APPLICABLE STANDARDS AND SPECIFICATIONS.
5. WHERE THE TRENCH BOTTOM IS UNSTABLE, CONTRACTOR SHALL PROVIDE SUITABLE BACKFILL MATERIAL AS REQUIRED BY ENGINEER OR PER GEOTECH RECOMMENDATIONS.
6. MINIMUM COVER IN TRAFFIC AREAS IS 12" UP TO 48" DIAMETER PIPE AND 24" FOR 54" - 60" DIAMETER PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.
7. CONTRACTOR SHALL INSTALL SUITABLE MATERIAL FOR INITIAL AND FINAL BACKFILL. BACKFILL COMPACTION SHOULD MEET ALL APPLICABLE STANDARDS AND SPECIFICATIONS.

STORM PIPE TRENCH DETAIL
N.T.S.



NOTE:
ALL PIPE SHALL BE SDR 35 UNLESS OTHERWISE NOTED. SEE UTILITY PLAN FOR SIZING.

ROOF DRAIN CONNECTION & CLEANOUT DETAIL
N.T.S.

LAND COVERAGE (IMPERVIOUS)
TAX LOT 68.12-3-27
PROP IMPERVIOUS = 47,652 SF
EXIST IMPERVIOUS = 22,730 SF
AMOUNT TO BE MITIGATED = 24,913 SF

AREA OF DISTURBANCE
114,142 S.F. (2.62 AC)

REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
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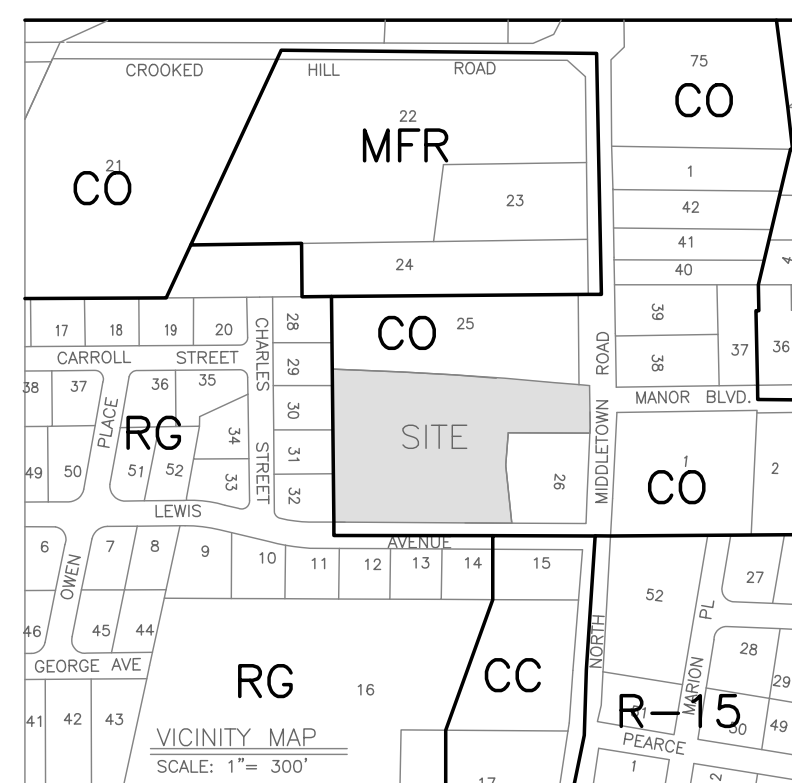
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SCALE: 1" = 20'
SHEET TITLE:
**STORMWATER
MANAGEMENT PLAN**

DRAWN BY: JG/MS/GM CHECKED BY: GM
DATE: 1.5.2022 PROJECT NO: 2303

SHEET NUMBER:
3

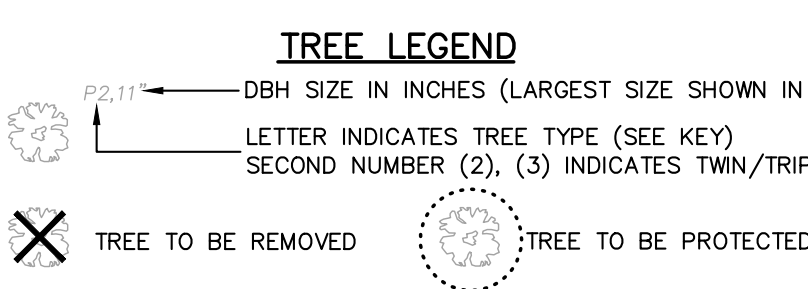
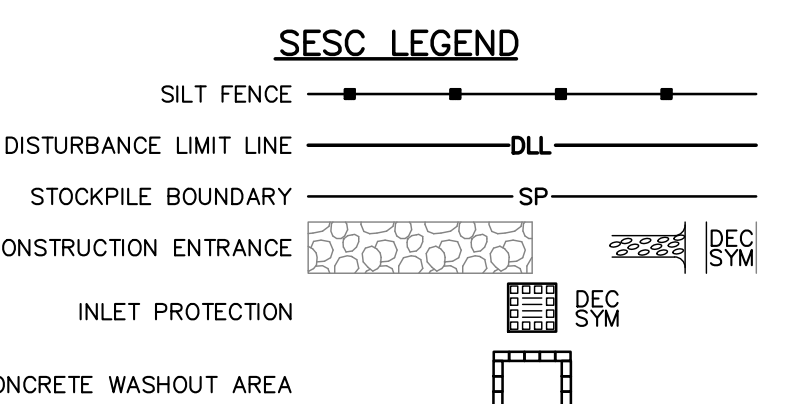
PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION

APPLICANT:
BRIGHTPATH KIDS
3280 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR:
JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830



TREE KEY

A = ASH	L = LOCUST
B = BIRCH	M = MAPLE
BN = BUTTERNUT	K = OAK
C = CHERRY	P = PINE
H = HICKORY	S = SYCAMORE
HL = HOLLY	SD = SWEETGUM
J = JAPANESE MAPLE	

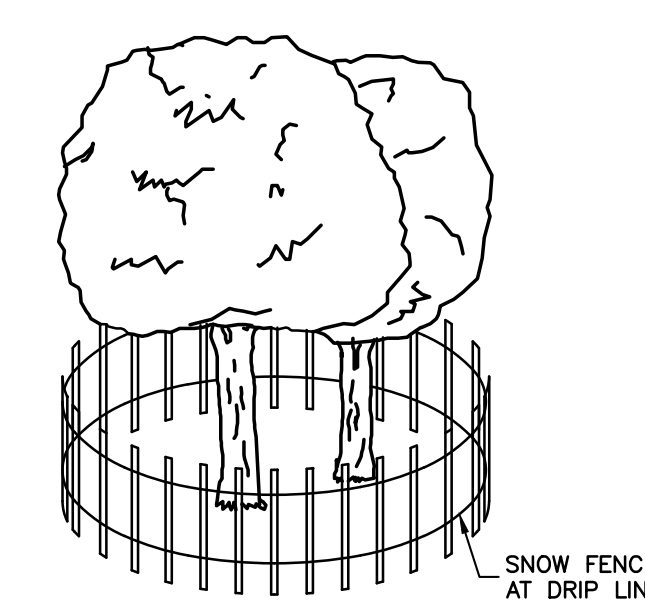
- STANDARD EROSION CONTROL NOTES:**
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, AND SHALL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT STABILIZATION IS ESTABLISHED.
 - THE SITE AT ALL TIMES SHALL BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND INSPECTING ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES ON A REGULAR BASIS, INCLUDING AFTER EVERY STORM EVENT.
 - STOCKPILES ARE NOT TO BE LOCATED WITHIN A FLOODPLAIN, BUFFER, ON A SLOPE, ROADWAY OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHALL BE CONTAINED BY A HAY BALE SEDIMENT BARRIER OR SILT FENCE.
 - A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET SHALL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 - ALL SOIL WASHED, DROPPED, SPILLED, OR TRACKED OUTSIDE THE WORK AREA OR ONTO PUBLIC RIGHT-OF-WAY, SHALL BE REMOVED IMMEDIATELY. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
 - DUST SHALL BE CONTROLLED AT ALL TIMES IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 - TREES TO REMAIN AFTER CONSTRUCTION WITHIN THE WORK AREA SHALL BE PROTECTED WITH A SUITABLE FENCE INSTALLED AT THE DRIP LINE OR BEYOND IN ACCORDANCE WITH THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
 - TEMPORARY SEDIMENTATION ENTRAPMENT AREAS SHALL BE PROVIDED AT KEY LOCATIONS TO INTERCEPT AND CLARIFY SILT LADEN RUNOFF FROM THE SITE. THESE MAY BE EXCAVATED OR MAY BE CREATED UTILIZING EARTHEN BERM, RIDGEP, OR CRUSHED STONE DAMS, HAY BALES, OR OTHER CHANNELIZATION SHALL BE CONSTRUCTED TO INSURE THAT ALL SILT LADEN WATERS ARE DIRECTED INTO THE ENTRAPMENT AREAS, WHICH SHALL NOT BE PERMITTED TO FILL IN, BUT SHALL BE CLEANED PERIODICALLY DURING THE COURSE OF CONSTRUCTION. THE COLLECTION SILT SHALL BE DEPOSITED IN AREAS SAFE FROM FURTHER EROSION.
 - ALL DISTURBED AREAS, EXCEPT ROADWAYS, WHICH WILL REMAIN OPEN OR UNFINISHED FOR MORE THAN 10 DAYS SHALL BE TEMPORARILY SEEDED WITH 1/2 LB. OF RYE GRASS OR MULCHED WITH 100 LBS. OF STRAW OR HAY PER 1,000 SQUARE FEET. ROADWAYS SHALL BE STABILIZED AS APPLICABLE AS PRACTICABLE BY THE INSTALLATION OF THE BASE COURSE. A TEMPORARY SEEDING AND/OR MULCHING SHOULD BE APPLIED TO DISTURBED AREAS THAT ARE LEFT FOR 15 DAYS UNLESS CONSTRUCTION WILL BEGIN WITHIN 30 DAYS.
 - SILT THAT LEAVES THE SITE SHALL BE COLLECTED AND REMOVED AS DIRECTED BY APPROPRIATE MUNICIPAL AUTHORITIES.
 - AT THE COMPLETION OF THE PROJECT, ALL TEMPORARY SILTATION DEVICES SHALL BE REMOVED AND THE AFFECTED AREAS RE-GRADED, PLANTED, OR TREATED IN ACCORDANCE WITH THE APPROVED PLANS.
 - ALL AREAS DISTURBED BY ON-SITE GRADING, THAT WILL NOT BE CONSTRUCTED UPON, SHALL BE STABILIZED WITH PERMANENT VEGETATIVE COVER, USING THE FOLLOWING SEEDING SCHEDULE, OR EQUIVALENT:

KENTUCKY BLUE GRASS	1 LB. PER ACRE	1 LB. PER 1,000 SF
PERENNIAL RYE GRASS	20	0.45
CREeping RED FESCUE	20	0.45
PERENNIAL RYE GRASS	5	0.10
 - ALL SEEDED AREAS TO HAVE AN APPLICATION OF THE FOLLOWING:

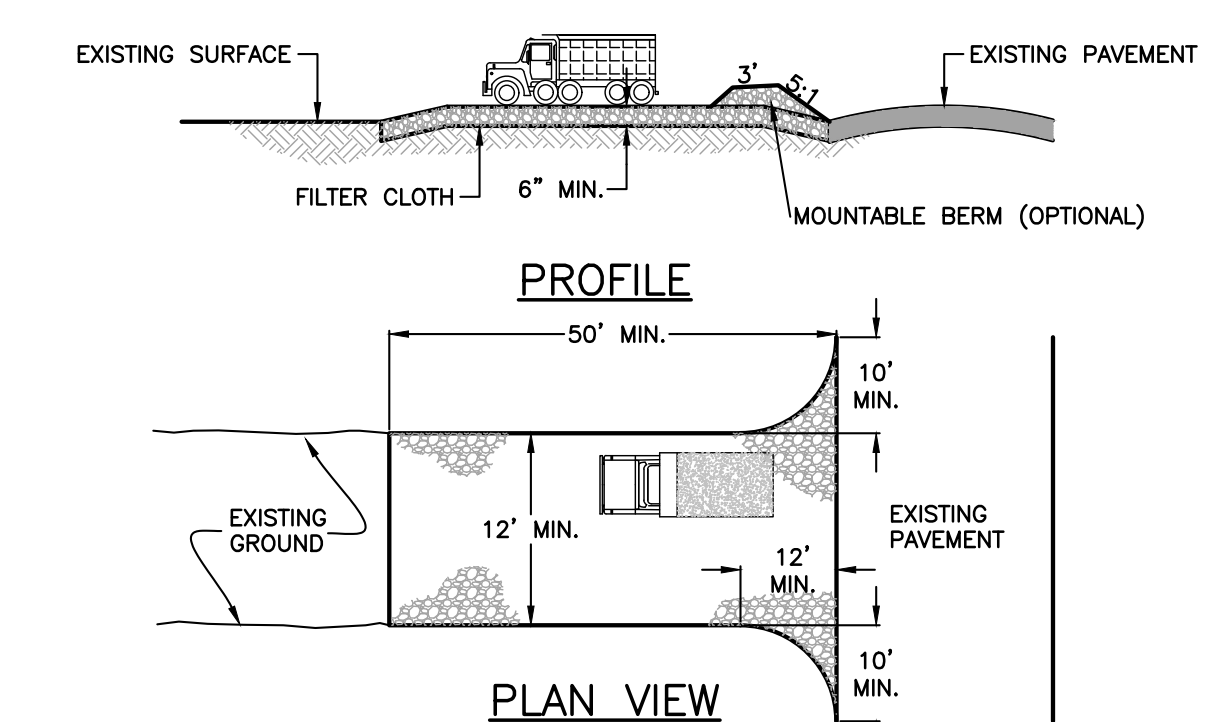
LIME	- AMOUNT NEEDED TO OBTAIN A pH OF 5.5
FERTILIZER	- 15 LBS. PER 1,000 SF OF 10-20-10 FERTILIZER OR APPROVED EQUAL.

 IF NOT LANDSCAPED OTHERWISE, ALL NEW CONSTRUCTED STEEP PERMANENT SLOPES LESS THEN 1 (VERTICAL) : 2.5 (HORIZONTAL) TO BE SEEDED WITH THE FOLLOWING:

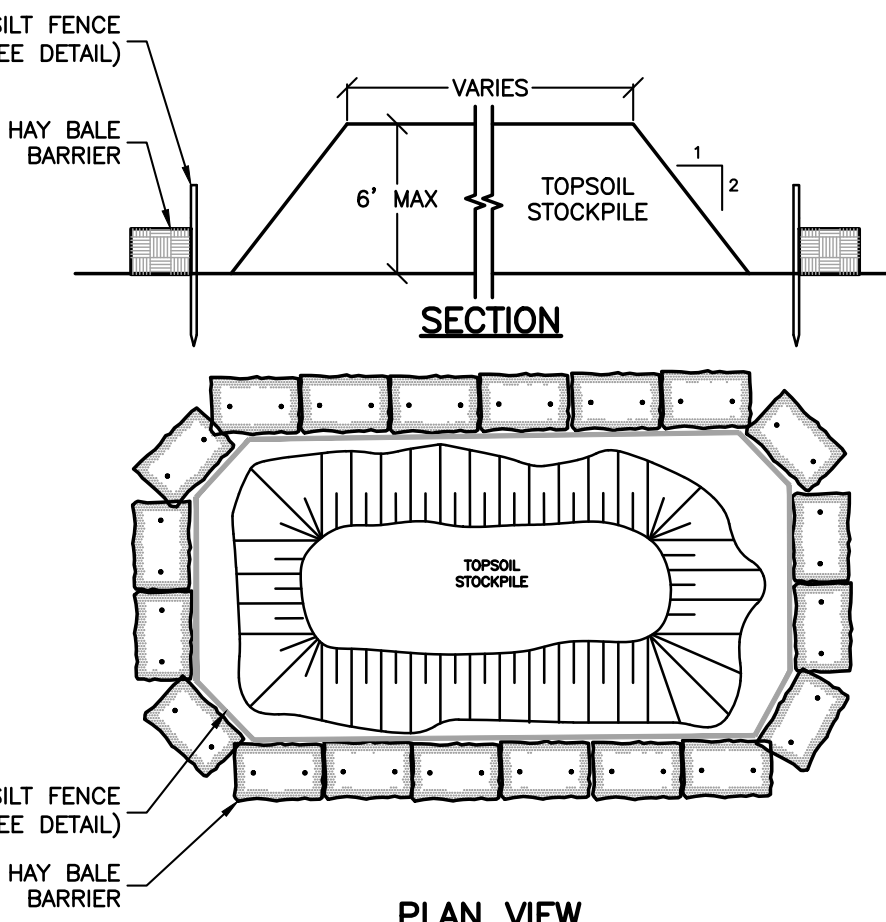
PERENNIAL RYE GRASS	1 LB. PER ACRE	1 LB. PER 1,000 SF
CREeping RED FESCUE	10	0.45
CROWN VETCH	15	0.35
BIRDSPOOT TREFOIL	8	0.20
TALL FESCUE OR SMOOTH BROMGRASS	15	0.35
W/PERENNIAL RYE GRASS	5	0.10
 - ALL SLOPES 1 (VERTICAL) : 2.5 (HORIZONTAL) TO BE MULCHED AND STABILIZED WITH CLOTH FABRIC AND PINNED TO THE GROUND.
 - SOD CAN BE USED INSTEAD OF SEED.
 - CONSTRUCTION SEQUENCE:
 - CONSTRUCT STABILIZING CONSTRUCTION ENTRANCE.
 - INSTALL SEDIMENT BARRIERS AS PER NOTE 1 ABOVE.
 - CONSTRUCT DIVERSIONS SWALES AND DRAINAGE SYSTEMS WITH MINIMUM NECESSARY CLEARING.
 - CLEAR EXISTING TREES AND VEGETATION FROM AREAS TO BE EXCAVATED OR FILLED, STRIP AND STOCKPILE TOPSOIL FROM ALL AREAS TO BE DISTURBED.
 - PERFORM NECESSARY EXCAVATION OR FILL OPERATIONS TO BRING SITE TO DESIRED SUBGRADE. INSTALL STORM DRAINAGE SYSTEM.
 - INSTALL SEDIMENT CONTROL BARRIERS AROUND ALL STORM DRAIN INLETS.
 - SEED ALL DISTURBED AREAS WHICH WILL REMAIN UNDISTURBED FOR A PERIOD OR 30 DAYS AS PER NOTE 2 ABOVE.
 - AFTER COMPLETION ON THE SITE CONSTRUCTION FINE GRADE AND SPREAD TOPSOIL ON ALL LAWN AREAS AND SEED AS PER NOTES 5 AND 6 ABOVE.
 - INSTALL SEDIMENT BARRIERS AS PER NOTE 1 ABOVE.
 - MAINTAIN ALL SEEDED AND PLANTED AREAS TO INSURE A VIABLE STABILIZED VEGETATIVE COVER.
 - ALL CONSTRUCTION TO MEET CURRENT TOWN SPECS.
 - 4" OF TOP SOIL TO BE SPREAD PRIOR TO SEEDING IN ALL DISTURBED AREAS.



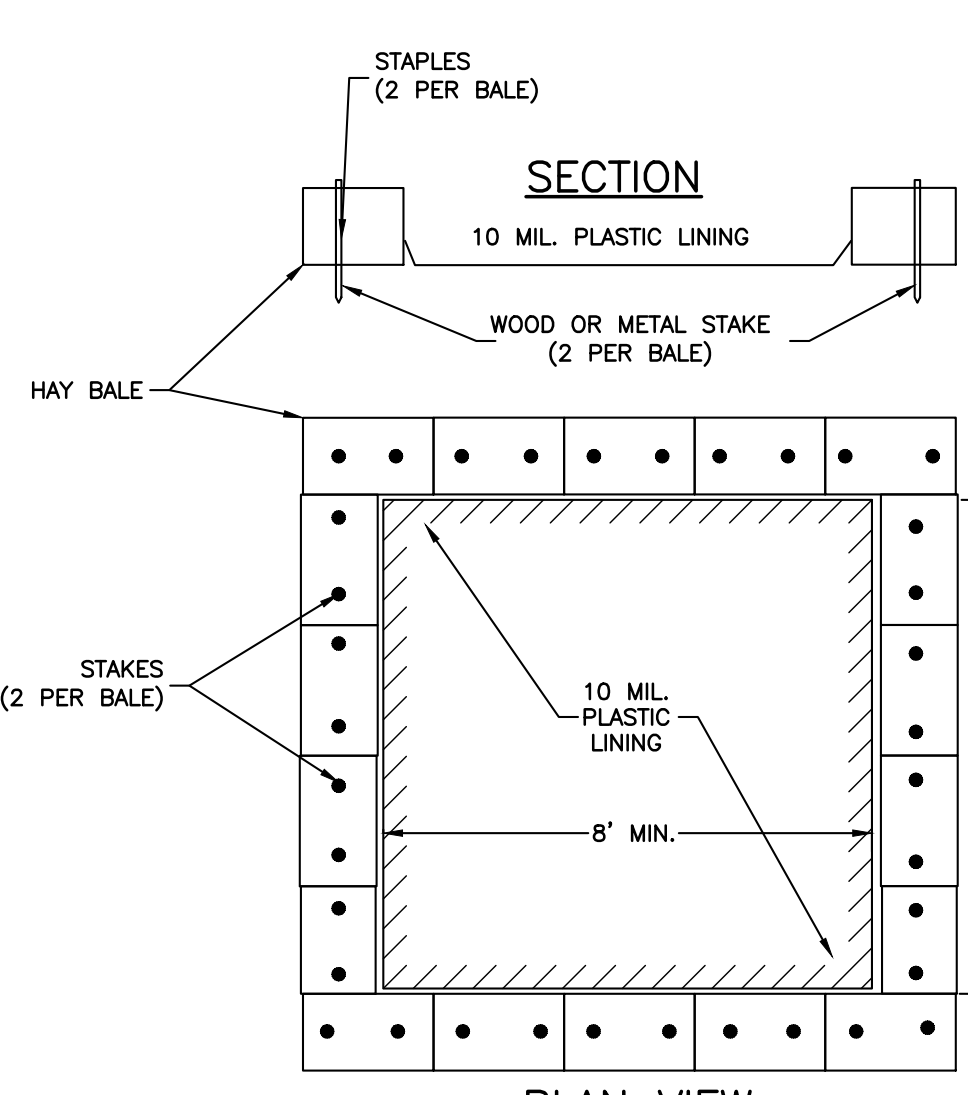
NOTE:
PROVIDE PROTECTION FOR TREES TO REMAIN WITHIN THE LIMIT OF DISTURBANCE
TREE PROTECTION DETAIL
N.T.S.



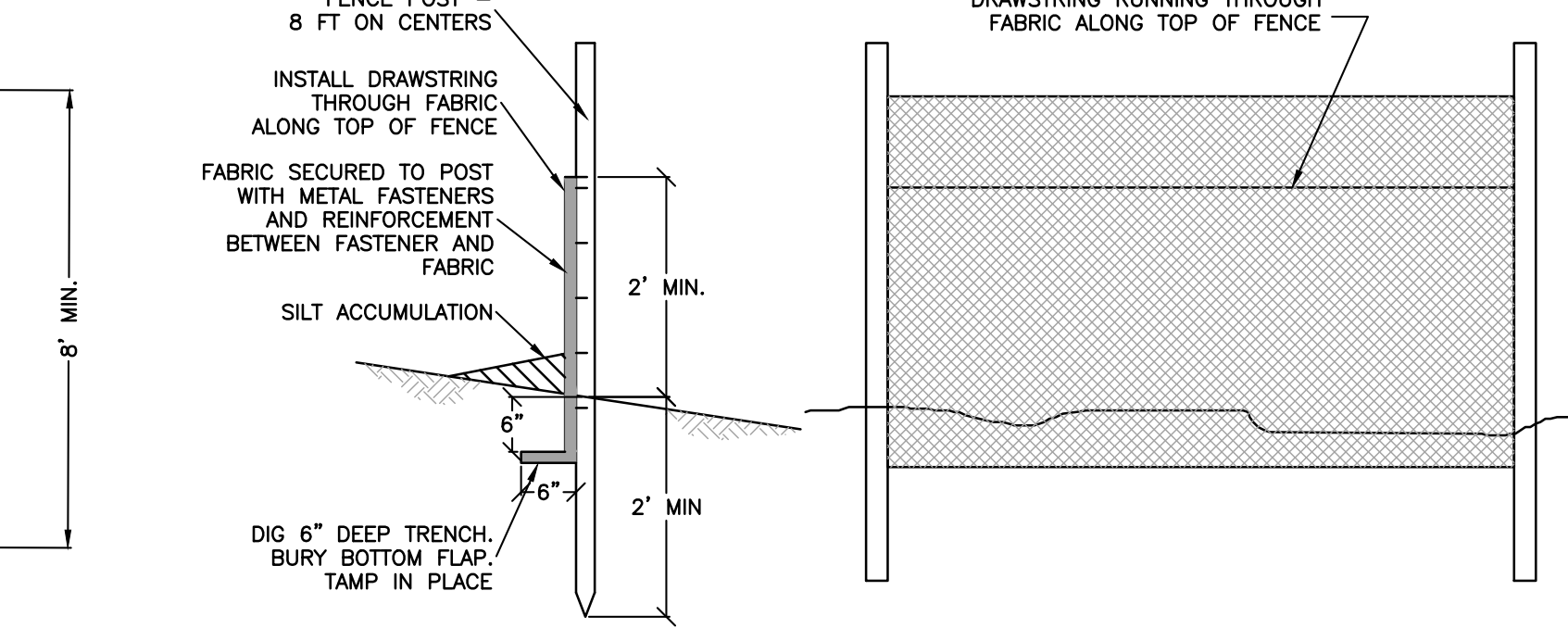
STABILIZED CONSTRUCTION ENTRANCE DETAIL
N.T.S.



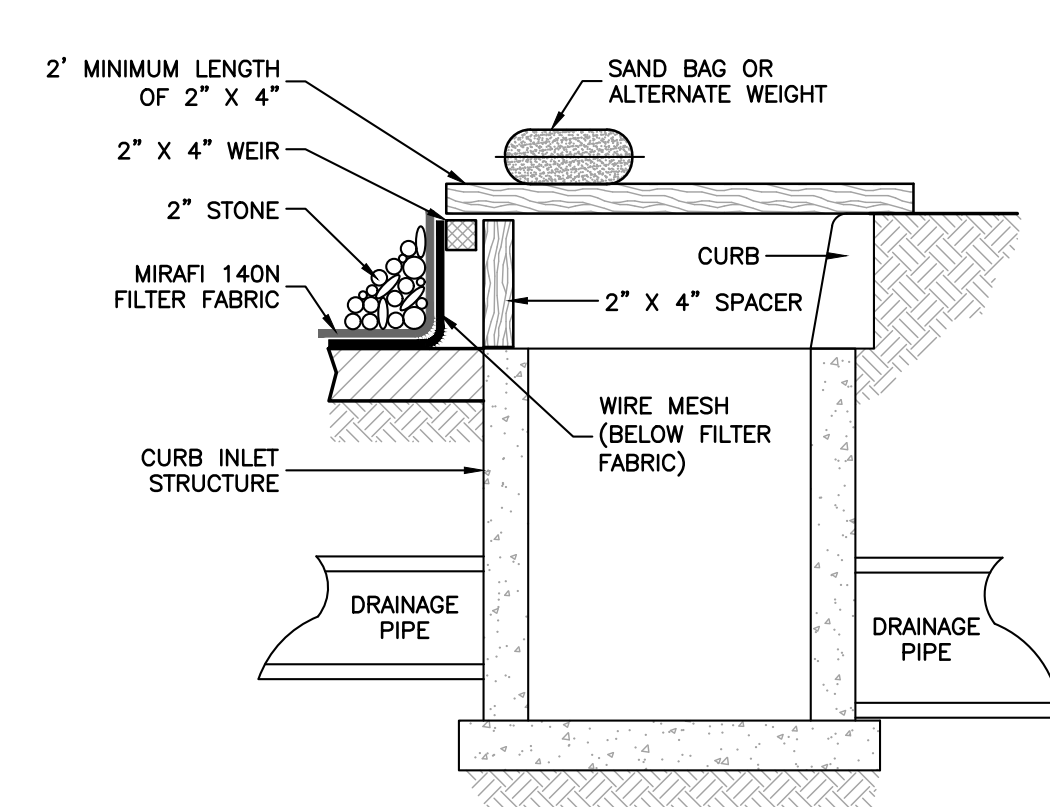
SOIL STOCKPILE SEDIMENT BARRIER
N.T.S.



CONCRETE TRUCK CLEANOUT AREA DETAIL
N.T.S.



SILT FENCE DETAIL
N.T.S.



CURB INLET PROTECTION DETAIL
N.T.S.

- NOTES:**
- MINIMUM LENGTH OF 2' x 4' SAND BAG OR ALTERNATE WEIGHT
 - 2' x 4' WEIR
 - 2" STONE
 - MIRAFI 140N FILTER FABRIC
 - CURB INLET STRUCTURE
 - WIRE MESH (BELOW FILTER FABRIC)
 - 2" x 4" SPACER
 - DRAINAGE PIPE

REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
1	PROPOSED HYDRANT	JG	3.1.2022
1	PRELIMINARY PB APPROVAL SUBMISSION	JG	1.5.2022

SEAL:
STATE OF NEW YORK
JAY A. GREENWELL
REGISTERED PROFESSIONAL ENGINEER
084274

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 209, SUBSECTION 2.

PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**

SCALE: 1" = 20'

SHEET TITLE:
**TREE PRESERVATION PLAN
SOIL EROSION AND
SEDIMENT CONTROL PLAN**

DRAWN BY: JG/MS/GM CHECKED BY: GM
DATE: 1.5.2022 PROJECT NO: 2303

SHEET NUMBER:
4

MC-7200 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-7200.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS' CHAMBER CLASSIFICATION 60x101.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS' CHAMBER CLASSIFICATION 60x101.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE ASHTO LFD3 BROOK DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE ASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2797, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (1 MIN) ASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER; 2) MAXIMUM PERMANENT (76-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) ASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 5".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 400 LB/IN. THE ARCH IS DEFINED IN SECTION 6.2.8 OF ASTM F2418 AND 3) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.56 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2797 AND BY SECTIONS 3 AND 12.12 OF THE ASHTO LFD3 BROOK DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-7200 CHAMBER SYSTEM

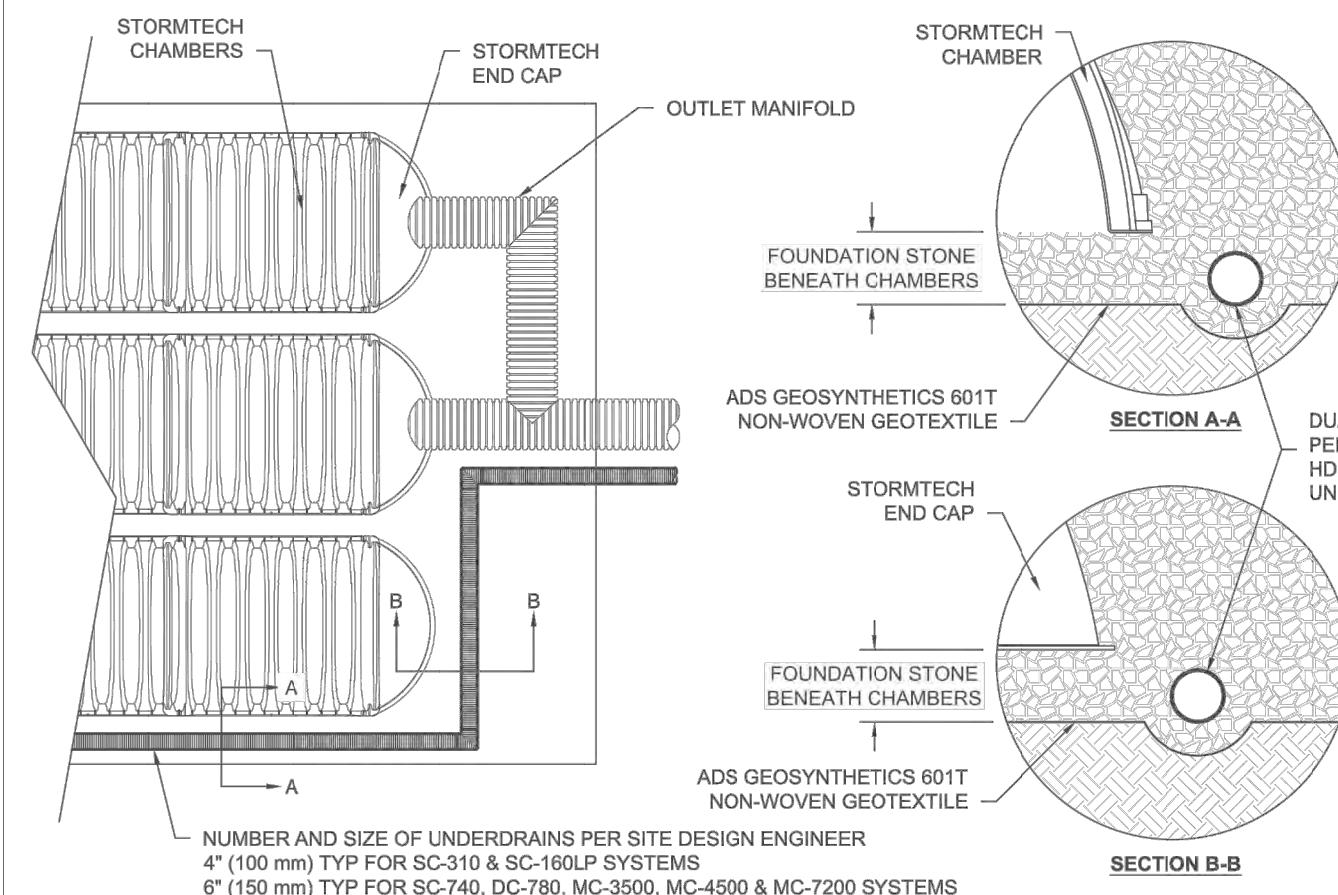
- STORMTECH MC-7200 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
 - STONES/HOTTER LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE ASHTO M43 DESIGNATION OF #3 OR #4.
- STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER EXCEED MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ASD RECOMMENDS THE USE OF "FLEXSTORM TATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

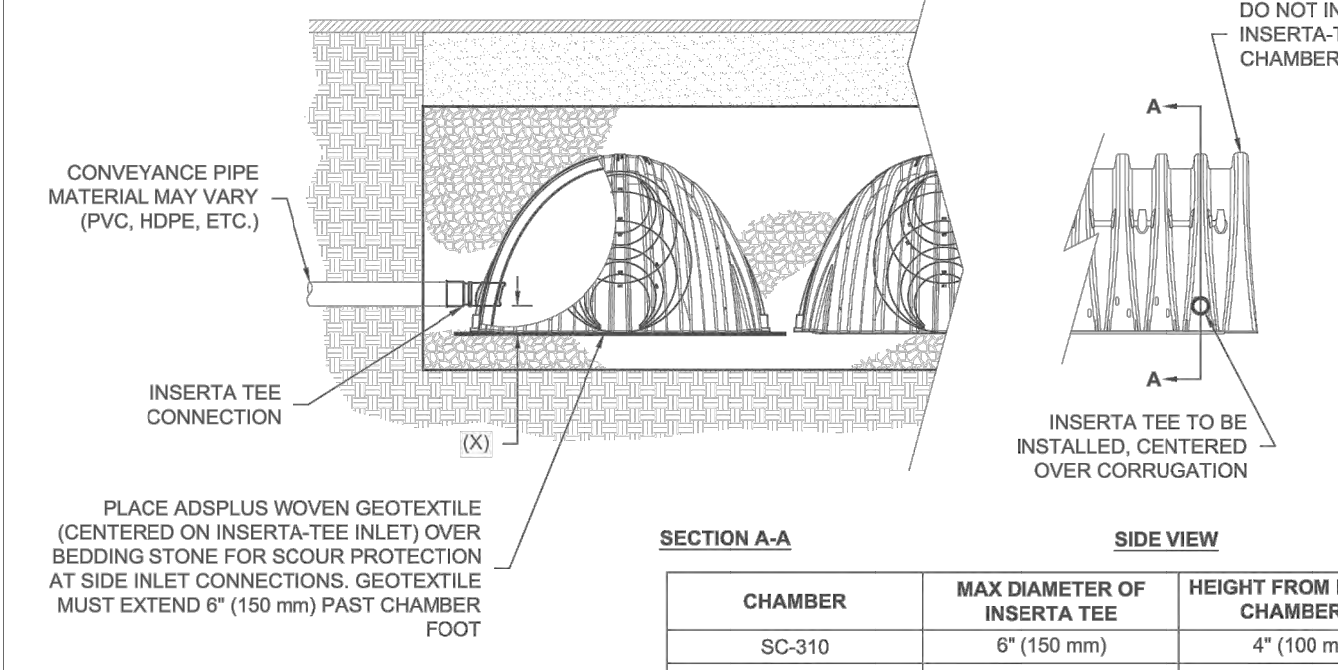
- STORMTECH MC-7200 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-7200 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BASE CHAMBERS.
 - NO RUBBER-TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-7200 CONSTRUCTION GUIDE".
- FILL 30" (800 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-862-2864 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



NOTE: PART NUMBERS WILL VARY BASED ON INLET PIPE MATERIALS. CONTACT STORMTECH FOR MORE INFORMATION.

6 INSERTA-TEE SIDE INLET DETAIL

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
CHAMBER STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

100.0" X 60.0" X 78.1" (2540 mm X 1524 mm X 2010 mm)
38.5 CUBIC FEET (1.12 m³)
287.3 CUBIC FEET (8.16 m³)
92.9 kg

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)
END CAP STORAGE
MINIMUM INSTALLED STORAGE*
WEIGHT (NOMINAL)

80.0" X 61.0" X 32.0" (2032 mm X 1549 mm X 833 mm)
38.5 CUBIC FEET (1.12 m³)
115.3 CUBIC FEET (3.26 m³)
90.8 kg

*ASSUMES 12" (305 mm) STONE ABOVE, 6" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PART #	STUB	B	C
MC7200EP06T	6" (150 mm)	42.54" (1081 mm)	—
MC7200EP06B	6" (200 mm)	40.50" (1029 mm)	0.86" (22 mm)
MC7200EP10T	10" (250 mm)	38.37" (975 mm)	1.01" (26 mm)
MC7200EP10B	10" (250 mm)	35.65" (907 mm)	1.33" (34 mm)
MC7200EP12T	12" (300 mm)	32.72" (831 mm)	1.56" (39 mm)
MC7200EP12B	12" (300 mm)	32.72" (831 mm)	—
MC7200EP15B	15" (375 mm)	—	1.70" (43 mm)
MC7200EP18T	18" (450 mm)	29.50" (748 mm)	—
MC7200EP18B	18" (450 mm)	—	1.97" (50 mm)
MC7200EP24T	24" (600 mm)	23.00" (585 mm)	—
MC7200EP24B	24" (600 mm)	—	2.26" (57 mm)
MC7200EP30BW	30" (750 mm)	—	2.95" (75 mm)
MC7200EP30BW	30" (750 mm)	—	3.52" (89 mm)
MC7200EP42BW	42" (1050 mm)	—	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL.

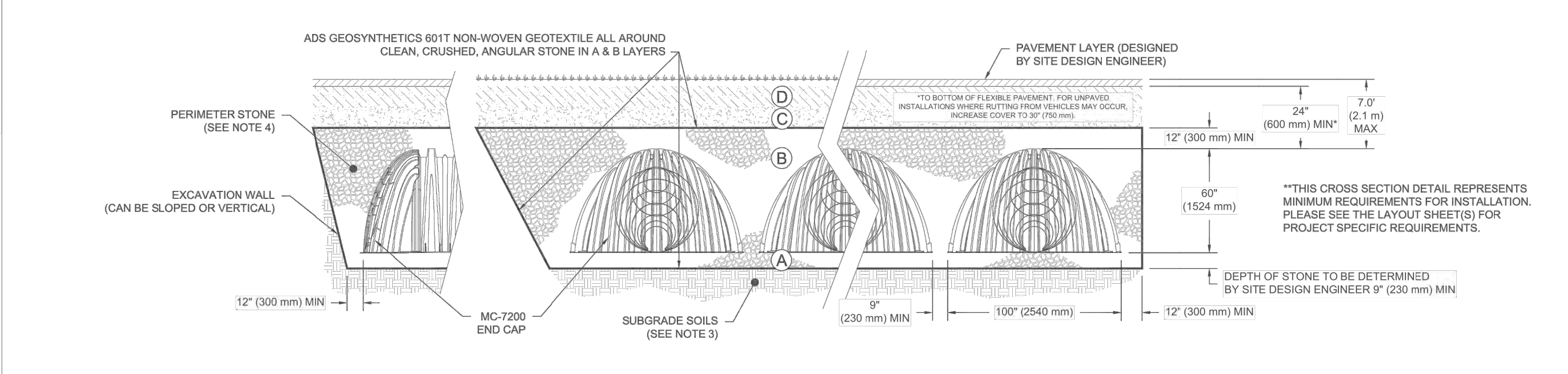
CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVERTED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-7200 TECHNICAL SPECIFICATIONS

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	ASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT	
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBBASE REQUIREMENTS.	N/A	
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE. (E LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <3% FINES OR PROCESSED AGGREGATE.	AASHTO M45 ¹ A-1, A-2, A-3 OR AASHTO M43 ² 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 88, 9, 10	BEGIN CHAMBERS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 98% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE.	AASHTO M43 ³ 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE.	AASHTO M43 ³ 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

- PLEASE NOTE:
- THE LISTED ASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (ASHTO M43) STONE".
 - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
 - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
 - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL. REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS' CHAMBER CLASSIFICATION 60x101".
- MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2797, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 5".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB/FT. (AND 3) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-7200 CROSS SECTION DETAIL

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)



7 MC-SERIES END CAP INSERTION DETAIL



DRAWN: DATE: PROJECT NO: NOT TO SCALE
REVIEWED: REV:
REV:

MC-7200 STANDARD DETAILS

StormTech Chamber System
888.862.2864 | WWW.STORMTECH.COM

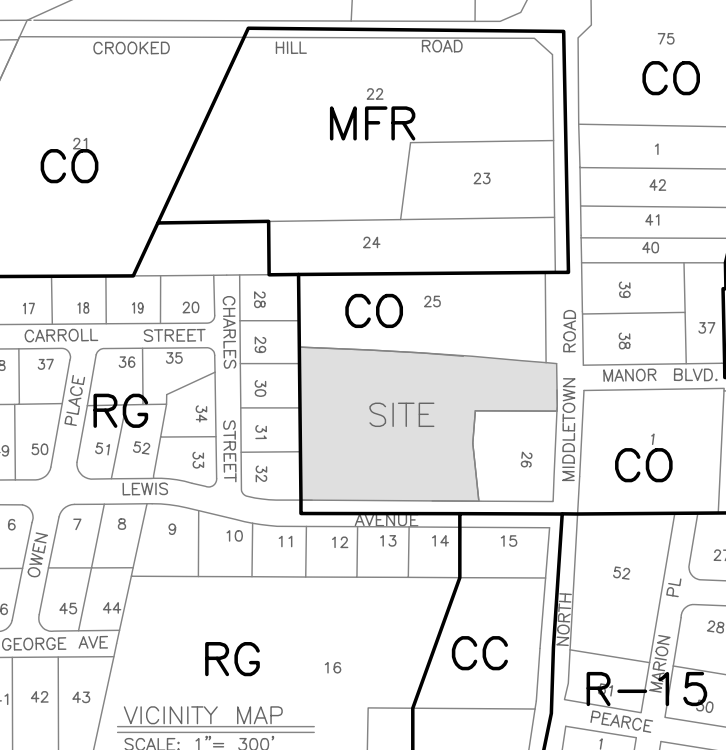
4640 TRUEMAN BLVD
HILLIARD, OH 43026

ADS Advanced Drainage Systems, Inc.

SHEET

PROJECT: SITE DEVELOPMENT PLAN FOR BRIGHT PATH KIDS

TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION

APPLICANT: BRIGHT PATH KIDS
3280 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR: JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830

REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
1	PROPOSED HYDRANT	JG	3.1.2022
0	PRELIMINARY PB APPROVAL SUBMISSION	JG	1.5.2022

SEAL: [Professional Engineer Seal]

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PROJECT: SITE DEVELOPMENT PLAN FOR BRIGHT PATH KIDS

SCALE: AS SHOWN

SHEET TITLE: CONSTRUCTION DETAILS (2 of 2)

DRAWN BY: JG/MS/GM CHECKED BY: GM

DATE: 1.5.2022 PROJECT NO: 2303

SHEET NUMBER:

SURVEYOR:

BRIGHT PATH KIDS
PEARL RIVER, NY 10965

DATE: AUGUST 16, 2019
DRAWN BY: AVM
JOB NO: 100117
SCALE: 1"=20'
FILENAME: 2022_0126_Safe_n_Sound

REVISIONS:
4/28/2021
1/25/2022
12/7/2023

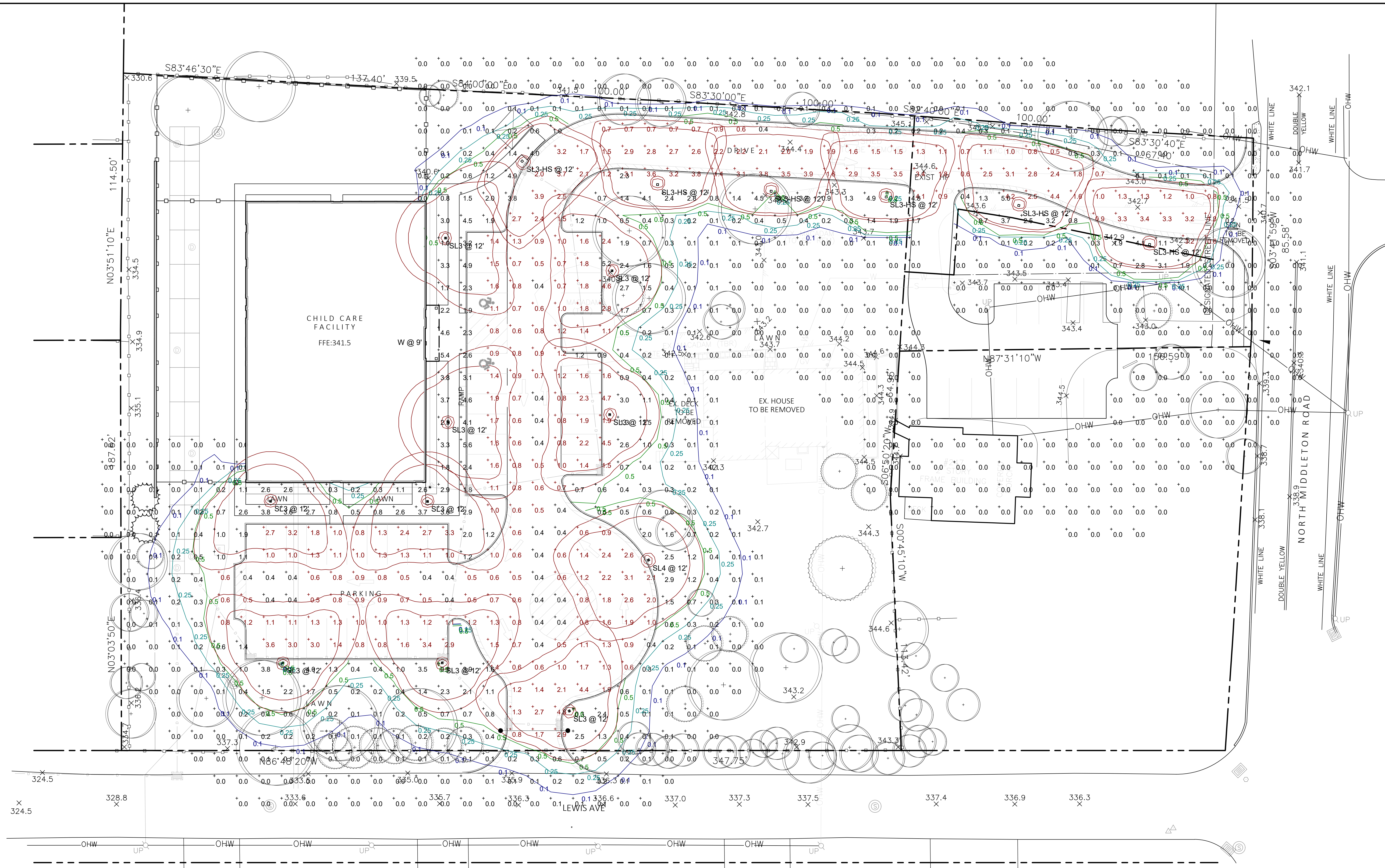
By the M Yost ASLA | Registered Landscape Architect

LIGHTING PLAN

SHEET NO.

7

TO SCALE WHEN PLOTTED ON 30x42
PROGRESS SET NOT FOR CONSTRUCTION



LIGHTING SCHEDULE

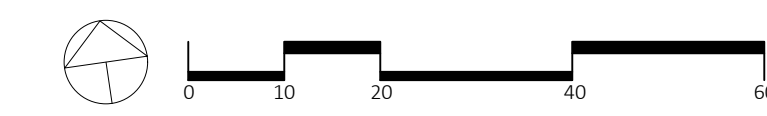
Sym	Label	Qty	Manufacturer	Model Number	Description	# Lumens	Light Output	Footcandle
W	W	1	Halsphire	HLWPC2 120V 300K CCT 300K	Utility Tub FCO LED 2, P30, 3000K, Type 4 Gaze	1	9100	0.85
SL3	SL3	9	Halsphire	HLWPC2 120V 300K CCT 300K	Utility Tub FCO LED 2, P30, 3000K, Type 4 Gaze	1	6000	0.85
SL4	SL4	1	Halsphire	HLWPC2 120V 300K CCT 300K	Utility Tub FCO LED 2, P30, 3000K, Type 4 Gaze	1	6530	0.85
SL5	SL5	6	Halsphire	HLWPC2 120V 300K CCT 300K	Utility Tub FCO LED 2, P30, 3000K, Type 4 Gaze	1	5224	0.85

LIGHTING NOTES

1. PROVIDE SWITCHING, TRANSFORMER LAYOUT AND WIRE SIZE FOR REVIEW BY LANDSCAPE ARCHITECT.
2. SIZE LOW VOLTAGE WIRE BASED ON A MAX. ALLOWABLE VOLTAGE DROP BY 50%.
3. TRANSFORMERS SIZED TO MAXIMUM CAPACITY OF LIGHT FIXTURE.
4. DESIGN LOAD IS NOT TO EXCEED 80% OF TRANSFORMER CAPACITY.
5. THE WORK IS TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND MEET ALL TESTING REQUIREMENTS.
6. FIXTURE LOCATIONS AND WIRE LAYOUTS ARE DIAGRAMMATIC AND APPROXIMATE: BEFORE INSTALLATION, REVIEW ADJACENT CONTROLLERS IN AN ORDERLY FASHION TO ALLOW ACCESS AS NECESSARY.
7. REFER TO THE PLAN FOR LIGHT FIXTURE LOCATION, UTILIZE CONDUIT (E) TIRE TO THE (E) SWITCHING WHERE POSSIBLE.
8. BALANCE LOADS TO THE TRANSFORMERS, IDENTIFY CENTER OF LOAD, CONNECT WIRE FROM TRANSFORMER TO CENTER OF LOAD.
9. PROVIDE 120 VOLT POWER TO EACH REMOTE TRANSFORMER CONNECT TO SWITCH IN HOUSE PER DIRECTION AND ACCEPTANCE OF CLIENT.
10. INSTALL FIXTURES PER MANUFACTURER'S INSTRUCTIONS.

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Parking and Drive Area	+	1.5 fc	5.2 fc	0.4 fc	13.0:1	3.8:1
Trespass	+	0.5 fc	5.6 fc	0.0 fc	N/A	N/A



SURVEYOR:

BRIGHT PATH KIDS
PEARL RIVER, NY 10965

DATE: AUGUST 16, 2019
DRAWN BY: AVM
JOB NO: 100117
SCALE: 1"=20'
FILENAME: 2022_0126_Safe_n_Sound

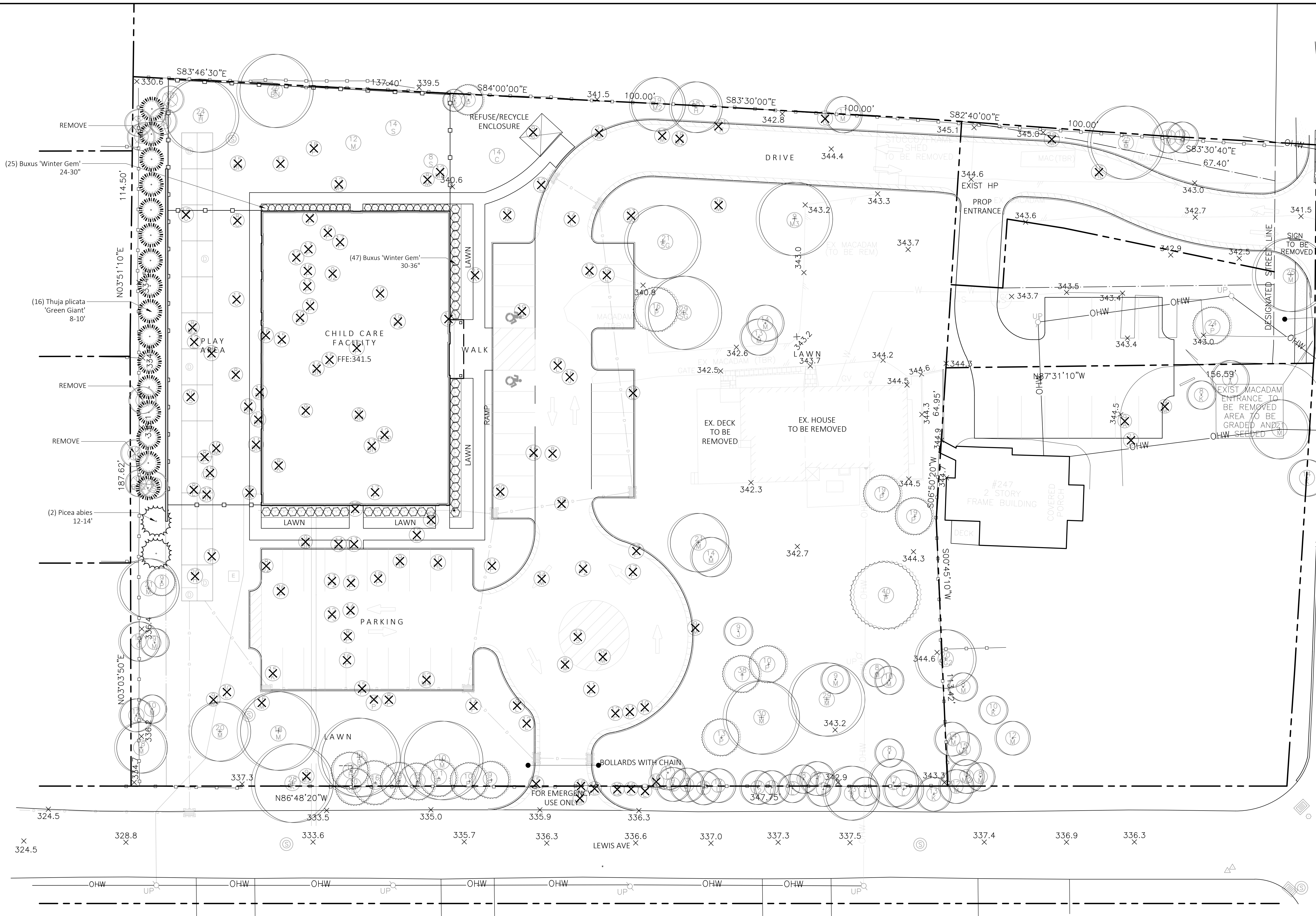
REVISIONS:
4/28/2021
1/25/2022
12/7/2023

By the M Yost ASLA | Registered Landscape Architect

PLANTING PLAN

SHEET NO.

8



PROPOSED ROAD WIDENING TO BE GRATUITOUSLY DEDICATED TO THE COUNTY OF ROCKLAND COUNTY AREA = 1,639 SF

CURB CUT TO BE ELIMINATED WALK AND CURB TO BE EXTENDED TO PROPERTY LINE

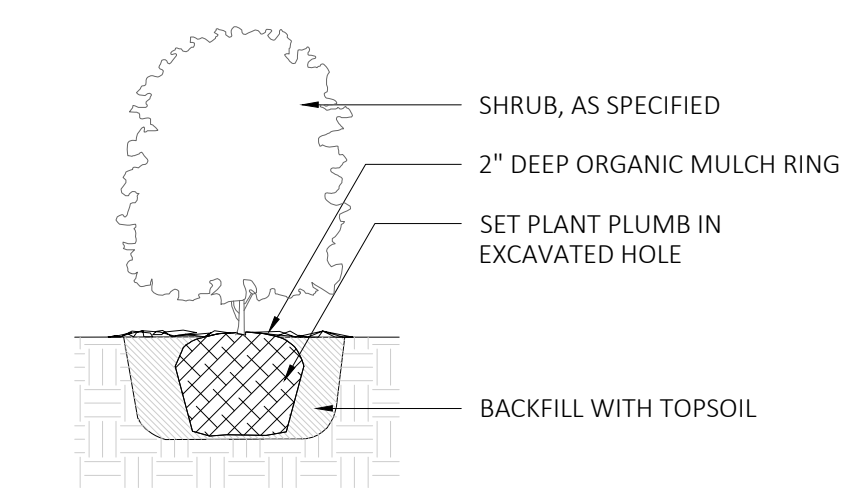
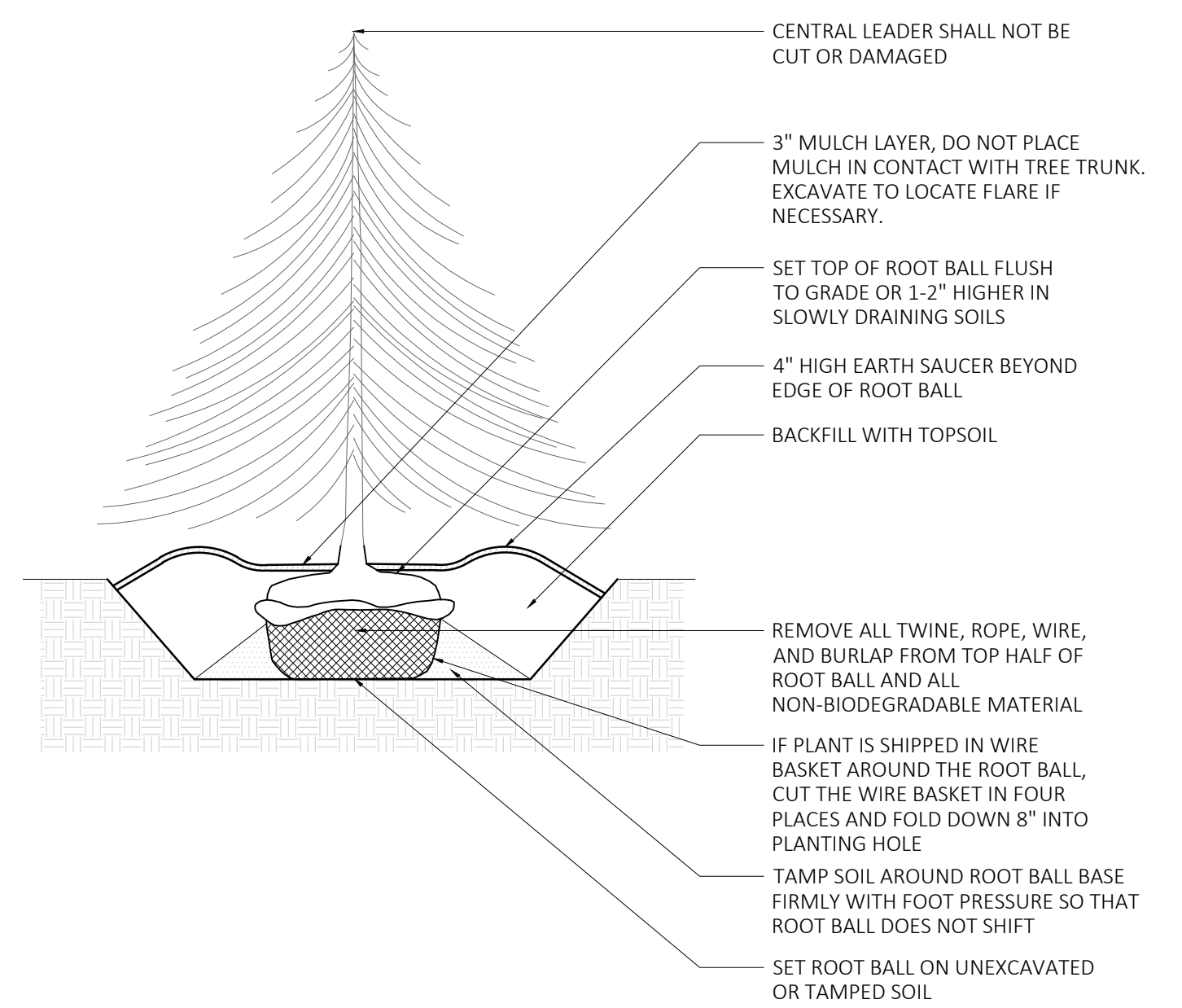
TREE LEGEND

- 12 K2 SIZE IN INCHES (LARGEST DIA SHOWN IN TWIN/TRIPLE)
 - LETTER INDICATES TREE TYPE (SEE BELOW)
 - 12 M TREE TO BE REMOVED
- | | |
|--------------------|---------------|
| A = ASH | L = LOCUST |
| BN = BUTTERNUT | M = MAPLE |
| B = BIRCH | K = OAK |
| C = CHERRY | P = PINE |
| H = HICKORY | S = SYCAMORE |
| HL = HOLLY | SG = SWEETGUM |
| J = JAPANESE MAPLE | |

PLANTING SCHEDULE

QTY	BOTANICAL NAME	COMMON NAME	SIZE
TREES			
2	<i>Picea abies</i>	Norway Spruce	12-14' HT
16	<i>Thuja 'Green Giant'</i>	Green Giant Arborvitae	7-8' HT
SHRUBS			
25	<i>Buxus 'Winter Gem'</i>	Winter Gem Boxwood	24-30"
47	<i>Buxus 'Winter Gem'</i>	Winter Gem Boxwood	30-36"

PLANTING IMAGES



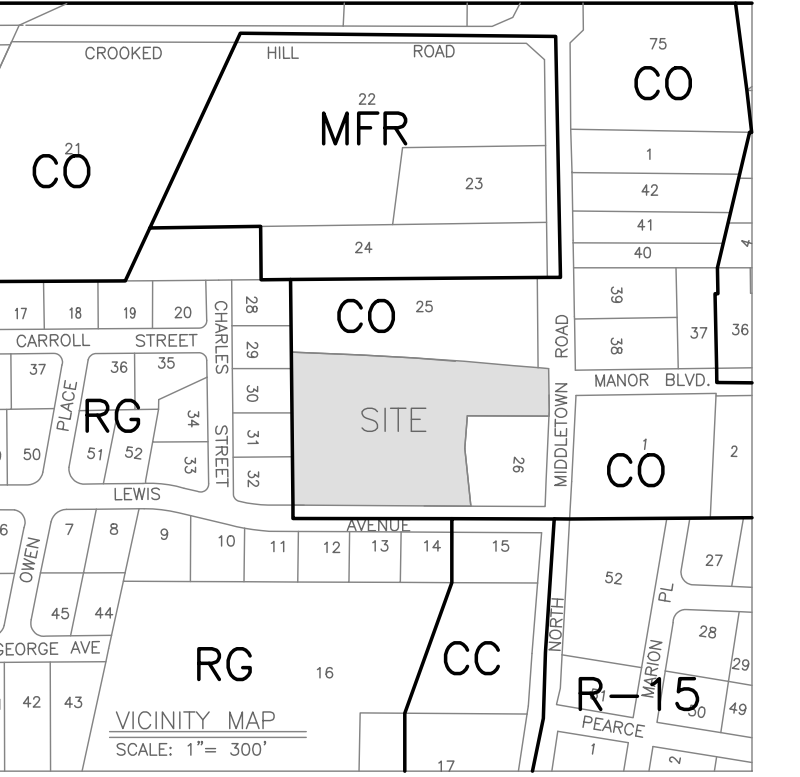
NOTES:

- FOR B & B PLANT MATERIAL, REMOVE ALL TWINE AND ROLL BACK BURLAP FROM TOP 1/2 OF BALL. IF ANY MATERIALS USED TO BIND THE ROOTBALL ARE NON-BIODEGRADABLE, REMOVE COMPLETELY INCLUDING WIRE BASKET.
- FOR CONTAINER GROWN PLANT MATERIAL, REMOVE CONTAINER. TO HELP PREVENT LOOSENING OF SOIL AND SCARRY BALL TO HELP PREVENT GIRDLING ROOTS.
- SATURATE SOIL WITHIN SIX (6) HOURS OF PLANTING, AND WATER AS NECESSARY UNTIL IRRIGATION INSTALLED.
- NO MULCH OR SOIL SHOULD BE PLACED AGAINST THE PLANT'S TRUNK.

1 EVERGREEN TREE PLANTING SCALE: 1/4"=1'

2 SHRUB PLANTING SCALE: 1/2"=1'

PROJECT:
**SITE DEVELOPMENT PLAN FOR
 BRIGHT PATH KIDS**
 TOWN OF ORANGETOWN
 ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION



REV	DESCRIPTION	BY	DATE

SEAL:

 JAY A. GREENWELL, PLS
 NYS LIC. # 49676

DISCLAIMER:
 UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION
 OF THE N.Y.S. EDUCATION LAW, ARTICLE 143, SECTION 7209, SUBSECTION 2.

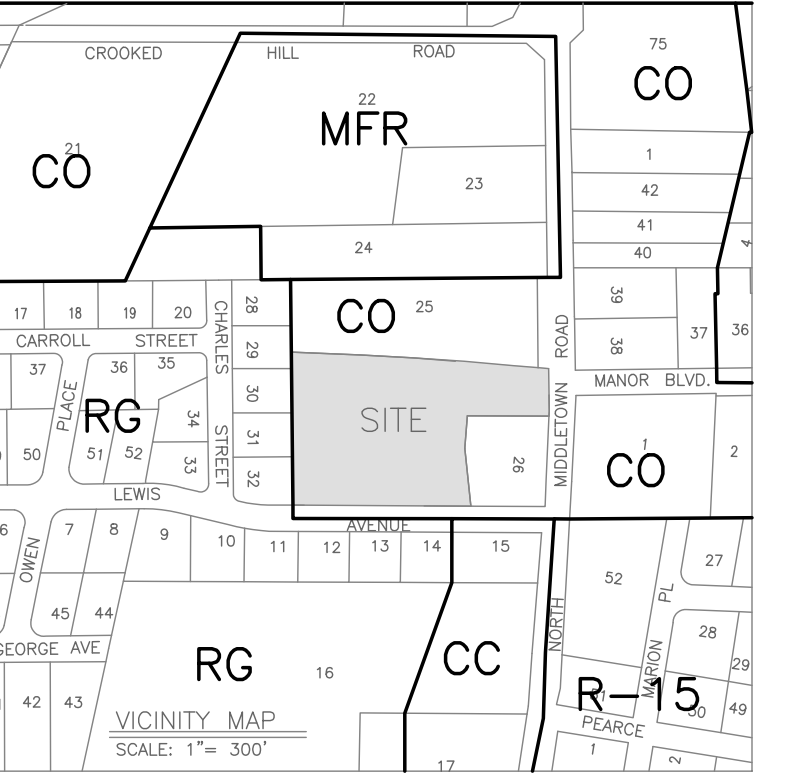
PROJECT:
**SITE DEVELOPMENT PLAN FOR
 BRIGHT PATH KIDS**

SCALE: 1" = 20'

SHEET TITLE:
EXISTING CONDITIONS

DRAWN BY: JG CHECKED BY: JG
 DATE: 10.17.2023 PROJECT NO: 21908
 SHEET NUMBER:

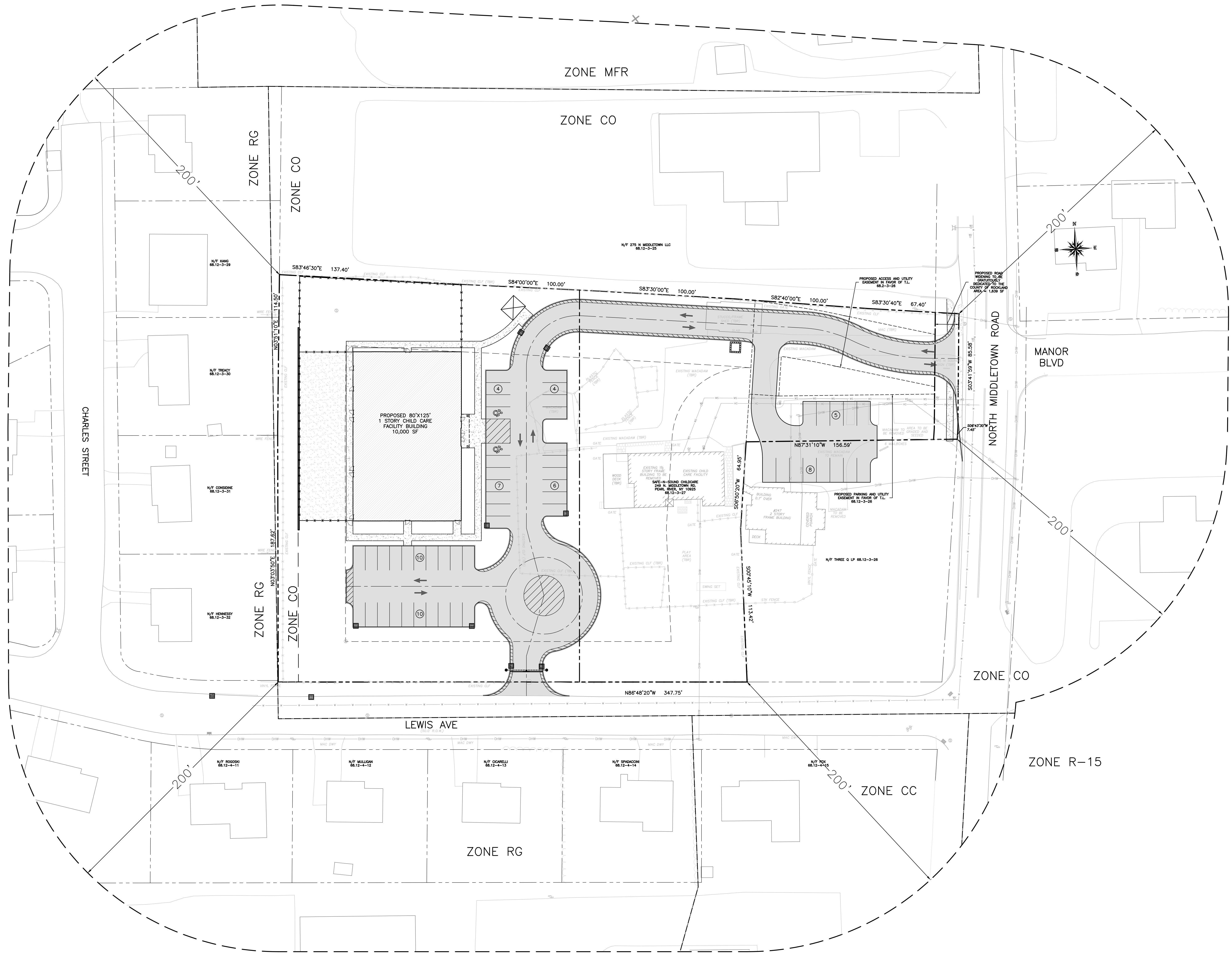
PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**
TOWN OF ORANGETOWN
ROCKLAND COUNTY, NEW YORK



PROJECT LOCATION

APPLICANT:
BRIGHTPATH KIDS
3280 BLOOR ST W
ETOBICOKE, ON M8X 2X3

SURVEYOR:
JAY A. GREENWELL, PLS, LLC
85 LAFAYETTE AVENUE
SUFFERN, NEW YORK 10901
TEL: 845-357-0830



REV	DESCRIPTION	BY	DATE
3	FINAL PB APPROVAL SUBMISSION	GM	12.12.2023
2	REVISIONS	JG	9.18.2023
1	PROPOSED HYDRANT	JG	3.1.2022
	PRELIMINARY PB APPROVAL SUBMISSION	JG	1.5.2022

SEAL:

DISCLAIMER:
UNAUTHORIZED ALTERATION OR ADDITIONS TO THESE PLANS IS A VIOLATION
OF THE N.Y.S. EDUCATION LAW, ARTICLE 145, SECTION 2029, SUBSECTION 2.

PROJECT:
**SITE DEVELOPMENT PLAN FOR
BRIGHT PATH KIDS**

SCALE: 1" = 30'

SHEET TITLE:
200' RADIUS EXHIBIT

DRAWN BY: JG/MS/GM CHECKED BY: GM

DATE: 1.5.2022 PROJECT NO: 2303

SHEET NUMBER: