

TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

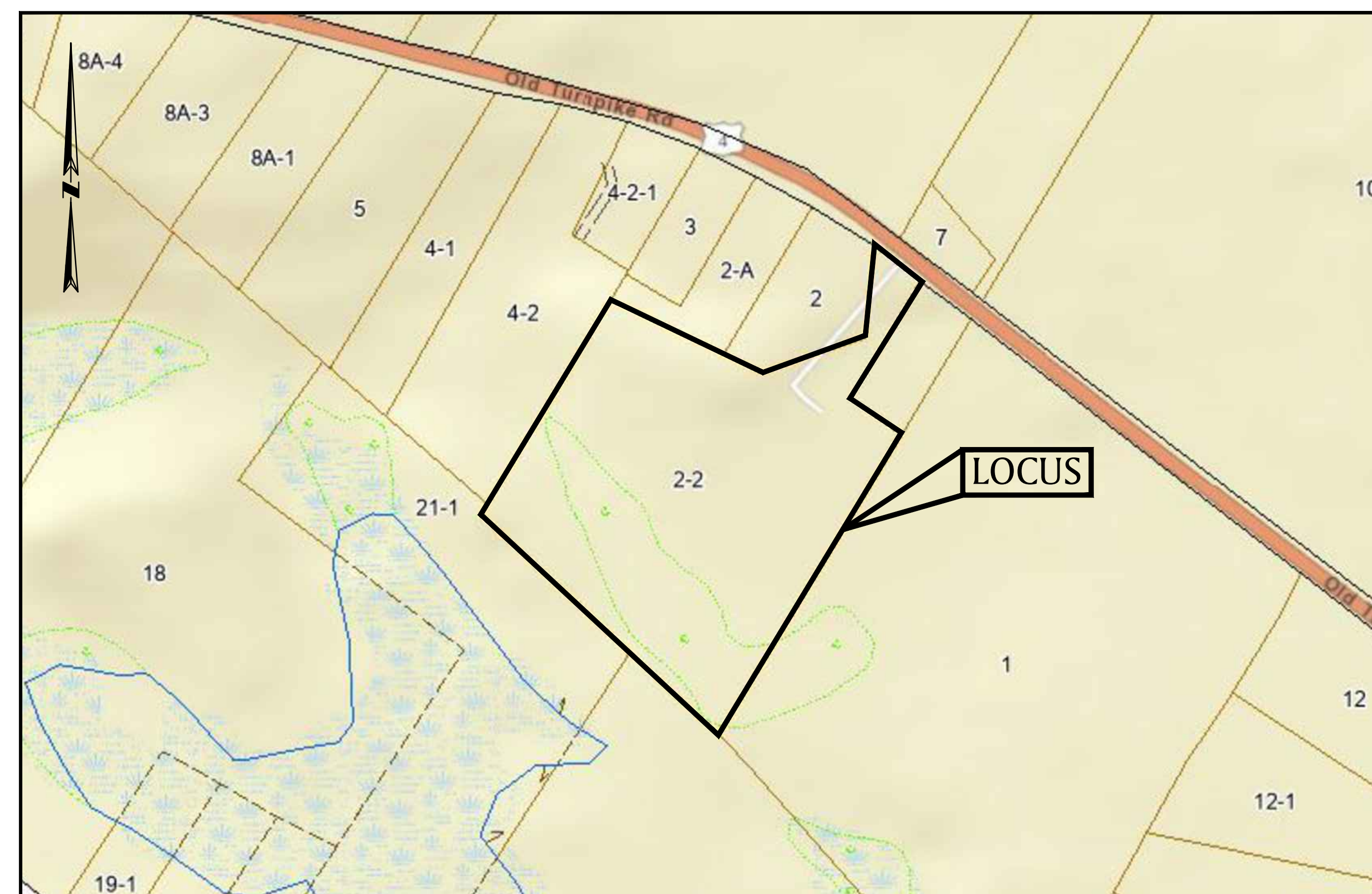
REVISÉD OCTOBER 6, 2023

 **BSC GROUP**
300 Brickstone Square, Suite 203
Andover, Massachusetts
01810

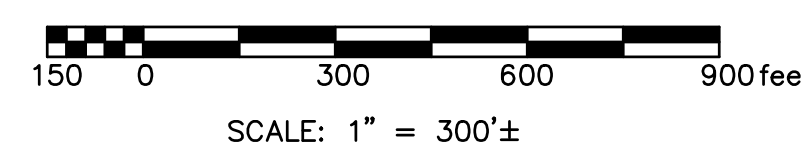
617 896 4300



G-100 TITLE SHEET
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C-200 SITE DETAILS
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LOCUS MAP



ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

CHAIR

DATE _____

GENERAL NOTES:

1. ZBA GRANTED WAIVERS
BUILDING HEIGHT (APPROVED)
CONCRETE APRON (APPROVED)
2. ENGINEERING PEER REVIEW CONDUCTED BY CMA ENGINEERS
3. NIGHT ACCESS PERMIT APPLICATION REVIEWED IN PROCESS WITH JAMES HEWITT.
4. ITERATION OF TERRAIN PERMIT REVIEW IS IN PROCESS WITH NHDES.
5. NATURAL HERITAGE ENDANGERED SPECIES REVIEW IS IN PROCESS.
6. INCREASE IN TRUCK TRAFFIC IS NEGLIGIBLE. NUMBER OF TRIPS POTENTIALLY TO INCREASE
OVER TIME TO UP TO 10 TRUCKS PER DAY.
7. NHDES SUBSURFACE APPROVAL IS REQUIRED PRIOR TO A CERTIFICATE OF OCCUPANCY.

ZONING DIMENSIONAL TABLE -- COMMERCIAL/INDUSTRIAL		
	REQUIRED	PROVIDED
MIN. LOT AREA	2 ACRES	25.10 ACRES
MIN. LOT FRONTAGE	200 FT	637 FT
MIN. FRONT YARD	150 FT	>150 FT
MIN. SIDE YARD	100 FT	62.5 FT ²
MIN. REAR YARD	100 FT	>100 FT
MAXIMUM LOT COVERAGE	50%	<50%
MAXIMUM HEIGHT	34 FT ABOVE GRADE PLANE	40 FT ¹ (WAIVER)
GREEN SPACE	NONE REQUIRED	N/A

1. A VARIANCE FROM THE REQUIREMENTS OF THE TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.g: DIMENSIONAL REQUIREMENTS (MAXIMUM BUILDING HEIGHT IN AN INDUSTRIAL USE ZONE) HAS BEEN APPROVED.
2. A VARIANCE FROM THE REQUIREMENTS OF THE TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.a.2: DIMENSIONAL REQUIREMENTS (MINIMUM SIDE SETBACK IN AN INDUSTRIAL USE ZONE) FOR CONCRETE BUILDING APRON HAS BEEN APPROVED.

PARKING TABLE			
DESCRIPTION	REQUIRED	EXISTING	PROPOSED
STANDARD SPACES	SEE NOTE 2	24	24
STANDARD ACCESSIBLE SPACES	N/A	---	---
VAN ACCESSIBLE SPACES	N/A	---	2
TOTAL SPACES	SEE NOTE 2	24	26

1. REQUIRED PARKING IS THAT WHICH IS ADEQUATE FOR EMPLOYEES AND PATRONS PER TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.e.
2. EXISTING PARKING SPACES ARE ESTIMATED TO BE 20-24.
3. IT IS PROPOSED TO REVISE THE CURRENT PARKING CONFIGURATION TO ACCOMMODATE 24 SPACES AS SHOWN.

EROSION AND SEDIMENT CONTROL NOTES

- EXISTING UTILITIES ARE A COMPILATION OF THE ON THE GROUND SURVEY. GIS INFORMATION FROM PREVIOUSLY APPROVED DESIGN PLANS BASED ON FIELD OBSERVATIONS AND RECORD PLANS. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES TO FIELD LOCATE EXISTING UTILITIES. CONTRACTOR TO CONDUCT TEST PITS, AS NEEDED, TO LOCATE EXISTING UTILITIES. ALL LOCATION WORK TO BE CONDUCTED PRIOR TO CONSTRUCTION AND COORDINATED WITH THE ENGINEER.
- THIS PROJECT IS SUBJECT TO THE CONDITIONS OF THE 2022 EPA NPDES CONSTRUCTION GENERAL PERMIT FOR NEW HAMPSHIRE (CGP). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENFORCING ALL ELEMENTS OF THE CGP AND THE PROJECT SPECIFIC STORMWATER POLLUTION PREVENTION PLAN (SWPPP). A NOTICE OF INTENT MUST BE FILED WITH THE EPA A MINIMUM OF 14 DAYS PRIOR TO THE START OF AND EARTH DISTURBING ACTIVITIES ONSITE.
- APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SOIL DISTURBANCE. RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPs ARE STABILIZED. ALL STORMWATER PONDS, INFILTRATION BASINS, AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- LIMIT THE LENGTH OF EXPOSURE OF UNSTABILIZED SOIL TO 45 DAYS OR LESS.
- MEASURES SHALL BE TAKEN TO CONTROL EROSION WITHIN THE PROJECT AREA. SEDIMENT IN RUNOFF WATER SHALL BE TRAPPED AND RETAINED WITHIN THE PROJECT AREA.
- MINIMIZE TOTAL AREA OF DISTURBANCE AND PROTECT NATURAL FEATURES AND SOIL. LIMIT THE AREA OF DISTURBANCE TO LESS THAN 5 ACRES AS ANYTIME.
- THE CONTRACTOR SHALL SEQUENCE ALL ACTIVITIES TO MINIMIZE SIMULTANEOUS AREAS OF DISTURBANCE. MASS CLEARING AND GRADING OF THE ENTIRE SITE SHALL BE AVOIDED.
- MINIMIZE SOIL EROSION AND CONTROL SEDIMENTATION DURING CONSTRUCTION.
- DIVERT UNCONTAMINATED WATER AROUND DISTURBED AREAS.
- INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND GOOD ENGINEERING PRACTICES AND IN ACCORDANCE WITH THE 2022 EPA NPDES CONSTRUCTION GENERAL PERMIT FOR NEW HAMPSHIRE. EROSION CONTROL PRACTICES ARE TO BE INSPECTED WEEKLY AND AFTER 0.5" OF RAINFALL.
- PROTECT AND MANAGE ON AND OFF-SITE MATERIAL STORAGE AREAS (OVERBURDEN AND STOCKPILES OF DIRT, BORROW AREAS, OR OTHER AREAS USED SOLELY BY THE PERMITTED PROJECT ARE CONSIDERED A PART OF THE PROJECT).
- COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS INCLUDING WASTE DISPOSAL, SANITARY OR SEWER REGULATIONS, AND AIR QUALITY REQUIREMENTS, INCLUDING DUST CONTROL.
- SEDIMENT SHALL BE REMOVED ONCE THE VOLUME REACHES HALF THE HEIGHT OF THE EROSION CONTROL DEVICE. SEDIMENT SHALL BE REMOVED BELOW PRIOR TO REACHING THE LOAD-BEARING CAPACITY OF THE SILT FENCE WHICH MAY BE LOWER THAN HALF THE HEIGHT.
- SOIL STOCKPILE SIDE SLOPES SHALL NOT BE GREATER THAN 2H:1V. ALL STOCKPILES SHALL BE SURROUNDED BY SEDIMENT CONTROLS.
- A TRACKING PAD OR OTHER APPROVED STABILIZATION METHOD SHALL BE CONSTRUCTED AT ALL CONSTRUCTION ENTRANCE/EXIT POINTS OF THE SITE TO REDUCE THE AMOUNT OF SOIL CARRIED ONTO ROADWAYS AND OFF THE SITE.
- PERMANENT SEEDING SHALL BE UNDERTAKEN IN THE SPRING FROM MARCH THROUGH MAY, AND IN LATE SUMMER AND EARLY FALL FROM AUGUST TO OCTOBER 15. DURING THE PEAK SUMMER MONTHS AND IN THE FALL AFTER OCTOBER 15, WHEN SEEDING IS FOUND TO BE IMPRACTICAL, APPROPRIATE TEMPORARY STABILIZATION SHALL BE APPLIED. PERMANENT SEEDING MAY BE UNDERTAKEN DURING THE SUMMER IF PLANS PROVIDE FOR ADEQUATE MULCHING AND WATERING.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15 SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORED NETTING. ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- AFTER OCTOBER 15, INCOMPLETE PARKING AREAS WHERE ACTIVE CONSTRUCTION HAS STOPPED FOR THE WINTER SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS (NHDOT ITEM 304.1 OR 304.2).
- TEMPORARY SEDIMENT TRAPPING DEVICES MUST NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTORY DRAINAGE AREAS.
- CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
- ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINAL GRADE.
- STABILIZED IS DEFINED AS:
 - A MINIMUM OF 85% OF VEGETATIVE COVER HAS BEEN ESTABLISHED;
 - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
 - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH ENV-WQ 1506.03.
- IN AREAS TO BE PAVED, BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF NHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.2 HAVE BEEN INSTALLED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.
- DUST SHALL BE CONTROLLED AT THE SITE.
- ALL PREVIOUSLY DISTURBED LAND SHALL BE STABILIZED BY APPROVED METHODS AFTER 14 DAYS IF LEFT UNDISTURBED. THIS INCLUDES STOCKPILES, CONSTRUCTION ENTRANCES, GRADED AREAS AND OTHER CONSTRUCTION ACTIVITY RELATED CLEARING.
- IF WORK IS HALTED OVER WINTER MONTHS THE CONTRACTOR SHALL BE RESPONSIBLE FOR STABILIZING THE AREA THROUGH GROUND COVER PRACTICES.
- THERE SHALL BE NO PLASTIC, OR MULTI-FILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES MATERIAL UTILIZED. (NOT APPLICABLE TO TURF REINFORCEMENT MATS.)
- TURF REINFORCEMENT MATS SHALL BE COVERED WITH SOIL TO PREVENT EXPOSURE OF THE MATS TO THE SURFACE

WILDLIFE PROTECTION NOTES:

- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES SHALL BE REPORTED IMMEDIATELY TO THE NEW HAMPSHIRE FISH AND GAME DEPARTMENT NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGreview@wildlife.nh.gov. EMAIL SUBJECT LINE: NH822-3503, HABITAT ASSESSMENT FOR SHEA CONCRETE AOT PERMIT, WILDLIFE SPECIES OBSERVATION
- PHOTOGRAPHS OF THE OBSERVED SPECIES SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHF&G IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION AS FEASIBLE.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION TO NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHF&G, IF ANY, TO ASSURE THE PROJECT DOES NOT APPRECIABLY JEOPARDIZE THE CONTINUED EXISTENCE OF THREATENED AND ENDANGERED SPECIES AS DEFINED IN FIS 1002.04.
- THE NHFG INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.

NEW HAMPSHIRE FISH AND GAME AND AOT PERMIT CONDITIONS (ENV-WQ 1503.33) – WILDLIFE PROTECTION NOTES:

- BLANDINGS'S TURTLE (STATE ENDANGERED) AND SPOTTED TURTLE (STATE THREATENED) OCCUR WITHIN THE PROJECT AREA. ALL OPERATORS AND PERSONNEL WORKING ON OR ENTERING THE SITE SHALL BE MADE AWARE OF THE POTENTIAL PRESENCE OF THESE SPECIES AND SHALL BE PROVIDED FLYERS THAT HELP IDENTIFY THESE SPECIES, ALONG WITH NHFG CONTACT INFORMATION.
- RARE SPECIES INFORMATION (E.G. IDENTIFICATION, OBSERVATION AND REPORTING OF OBSERVATIONS, WHEN TO CONTACT NHFG IMMEDIATELY AND NHFG CONTACT INFORMATION) SHALL BE COMMUNICATED DURING MORNING TAILGATE MEETINGS PRIOR TO WORK COMMENCEMENT DURING THE CONSTRUCTION PHASE OF THE PROJECT. SEE PLAN SHEET C-100. INCLUDE ATTACHED FLYERS TO PLAN SHEET SET.
- TURTLES MAY BE ATTRACTED TO DISTURBED GROUND DURING NESTING SEASON (MAY 15TH --JUNE 30TH). ALL TURTLE SPECIES NESTS ARE PROTECTED BY NH LAWS. IF A NEST IS OBSERVED OR SUSPECTED, OPERATORS SHALL CONTACT MELISSA WINTERS (603-479-1129) OR JOSH MEGYESY (978-578-0802) AT NHFG IMMEDIATELY FOR FURTHER CONSULTATION
- AREA DRAINS LOCATED WITHIN THE PROPOSED GRASS SWALES SHALL UTILIZE CAST IRON BEEHIVE FRAMES AND GRATES, MODEL R2510-A, BY NEENAH, TO MITIGATE THE POTENTIAL OF WILDLIFE ENTRAPMENT IN THE STORM WATER MANAGEMENT SYSTEM
- A 100 FOOT NO CUT, NO DISTURB BUFFER SHALL BE MAINTAINED AROUND ALL WETLANDS ON-SITE. WITH THE EXCEPTION OF THE PROPOSED DISTURBANCES, AS DEPICTED ON THE PLAN OF REFERENCE. PLACARDS MARKING THESE AREAS AS 'PROTECTED HABITAT- NO CUTTING/ NO DISTURBANCE' SHALL BE PLACED EVERY 100 FEET ALONG THE BUFFER BOUNDARY. SEE PLAN SHEET C-101. THE 100-FT NO CUT, NO DISTURB BUFFER AND PLACARDS SHALL BE MAINTAINED AND CONSERVED IN PERPETUITY IN ACCORDANCE WITH FIS 1003.02 (E).
- A SPLIT RAIL FENCE SHALL BE INSTALLED ALONG THE WESTERN EDGE OF THE PROPOSED DISTURBED AREAS TO SERVE AS A PHYSICAL BARRIER TO UNINTENTIONAL FUTURE ENCROACHMENT ON THE WETLAND BUFFER.
- ALL MANUFACTURED EROSION AND SEDIMENT CONTROL PRODUCTS, WITH THE EXCEPTION OF TURF REINFORCEMENT MATS, UTILIZED FOR, BUT NOT LIMITED TO, SLOPE PROTECTION, RUNOFF DIVERSION, SLOPE INTERRUPTION, PERIMETER CONTROL, INLET PROTECTION, CHECK DAMS, AND SEDIMENT TRAPS SHALL NOT CONTAIN PLASTIC, OR MULTIFILAMENT OR MONOFILAMENT POLYPROPYLENE NETTING OR MESH WITH AN OPENING SIZE OF GREATER THAN 1/8 INCHES.
- ALL OBSERVATIONS OF THREATENED OR ENDANGERED SPECIES ON THE PROJECT SITE SHALL BE REPORTED IMMEDIATELY TO THE NHFG NONGAME AND ENDANGERED WILDLIFE ENVIRONMENTAL REVIEW PROGRAM BY PHONE AT 603-271-2461 AND BY EMAIL AT NHFGREVIEW@WILDLIFE.NH.GOV, WITH THE EMAIL SUBJECT LINE CONTAINING THE NHB DATACHECK TOOL RESULTS LETTER ASSIGNED NUMBER, THE PROJECT NAME, AND THE TERM WILDLIFE SPECIES OBSERVATION.
- PHOTOGRAPHS OF THE OBSERVED SPECIES AND NEARBY ELEMENTS OF HABITAT OR AREAS OF LAND DISTURBANCE SHALL BE PROVIDED TO NHFG IN DIGITAL FORMAT AT THE ABOVE EMAIL ADDRESS FOR VERIFICATION, AS FEASIBLE.
- IN THE EVENT A THREATENED OR ENDANGERED SPECIES IS OBSERVED ON THE PROJECT SITE DURING THE TERM OF THE PERMIT, THE SPECIES SHALL NOT BE DISTURBED, HANDLED, OR HARMED IN ANY WAY PRIOR TO CONSULTATION WITH NHFG AND IMPLEMENTATION OF CORRECTIVE ACTIONS RECOMMENDED BY NHFG.
- NHFG, INCLUDING ITS EMPLOYEES AND AUTHORIZED AGENTS, SHALL HAVE ACCESS TO THE PROPERTY DURING THE TERM OF THE PERMIT.



PLEASE REPORT OBSERVATIONS OF
RARE TURTLES

The NH Fish & Game Department is requesting
observations of the following turtle species



Turtles may be attracted to disturbed ground during nesting season (May 15th – June 30th)

Turtles are most active from April 15th - October 15th - maintain silt fences during this time



Blanding's turtle
(State Endangered)

Large, dark/black domed shell
with lighter speckles.

Distinct yellow throat/chin.

Aquatic but often moves on land.



Spotted turtle
(State Threatened)

Small, mostly aquatic with
black or dark brown with
yellow spots.

Fairly flat shell compared
to Blanding's turtle.

Spots vary in color and
number.

Fis 1401.03 (a) No person shall take or possess a spotted turtle
(Clemmys guttata)...Blanding's turtle (Emydoidea blandingii)...or
any egg or part thereof.

Report sightings immediately to NHFG Wildlife Division at 603-271-2461 (M-F 8-4) or
to NHFG Wildlife Biologist Melissa Winters 603-479-1129 (cell) anytime.

Please report promptly, noting specific location and date – Photographs strongly encouraged

NOTES

SEPTEMBER 6, 2022

REVISIONS:

NO.	DATE	DESC.
1	4/4/2023	RESPONSE TO NHDES COMMENTS
2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:

SHEA CONCRETE
87 HAVERHILL AVE
AMESBURY, MA 01950



300 Brickstone Square, Suite 203
Andover, Massachusetts
01850

617 896 4300

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SCALE: NONE

FILE: PROJECTS/AND/1360201/C/D/

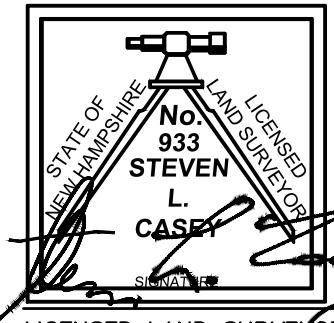
DWG.:
JOB. NO: 1-3602.01

SHEET C-100

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

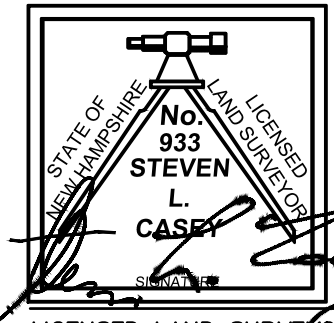
SURVEYOR'S CERTIFICATION

I DECLARE, TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF THAT THE PROPERTY LINES DEPICTED ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINE OF STREETS AND WAYS DEPICTED ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIPS OR FOR NEW STREETS AND WAYS ARE DEPICTED.



SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN IS THE RESULT OF AN ACTUAL FIELD SURVEY MADE ON THE GROUND, SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF NOT LESS ACCURACY THAN ONE PART IN TEN THOUSAND (1:10,000). FURTHER, THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION.



EXISTING WETLANDS ON SITE WERE IDENTIFIED UTILIZING THE STANDARDS SET FORTH IN THE 1987 ACOE FEDERAL TECHNICAL REPORT (Y-87-1). WETLANDS WERE DELINEATED, IN-THE-FIELD, BY BAG LAND CONSULTANTS, 43 ROCKINGHAM STREET, CONCORD, NH, (603)228-5775

08-24-2022
DATE

BRUCE A. GILDAY, CWS #88

EXISTING CONDITIONS NOTES:

1. THE EXISTING CONDITIONS INFORMATION SHOWN WAS COMPILED FROM AN ON THE GROUND SURVEY BY BSC GROUP FROM NOVEMBER 2021 THROUGH FEBRUARY, 2022. INFORMATION PROVIDED BY THE APPLICANT AND AERIAL IMAGERY. TOPOGRAPHIC INFORMATION SHOWN IS ON THE NAVD88 VERTICAL DATUM.
2. UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THE PLAN. BSC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE BEGINNING WORK, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENTS MUST BE CONSULTED. 72 HOURS BEFORE CONSTRUCTION, CALL "DIG SAFE" 1-888-344-7233.
3. TEST PIT INFORMATION SHOWN WAS PROVIDED BY BAG LAND CONSULTANTS AS A RESULT OF SOIL TESTING CONDUCTED IN APRIL AND MAY, 2022.
4. EXISTING WETLANDS ON SITE WERE IDENTIFIED UTILIZING THE STANDARDS SET FORTH IN THE 1987 ACOE FEDERAL TECHNICAL REPORT (Y-87-1). WETLANDS WERE DELINEATED, IN-THE-FIELD, BY BAG LAND CONSULTANTS, 43 ROCKINGHAM STREET, CONCORD, NH, (603)228-5775

TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

CHAIR

DATE



87 Haverhill Avenue
Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER DATE

SHEA CONCRETE
PROPOSED
MANUFACTURING

160 OLD TURNPIKE ROAD

IN

NOTTINGHAM

NEW HAMPSHIRE

(ROCKINGHAM COUNTY)

EXISTING CONDITIONS
PLAN

SEPTEMBER 6, 2022

REVISIONS:

NO.	DATE	DESC.
1	4/4/2023	RESPONSE TO NHDES COMMENTS
2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:
SHEA CONCRETE
87 HAVERHILL AVE
AMESBURY, MA 01950

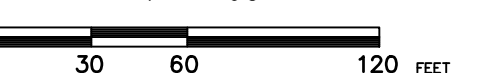


300 Brickstone Square, Suite 203
Andover, Massachusetts
01850

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SCALE: 1" = 60'



FILE: PROJECTS/AND/1360201/C/D/

DWG: SHEET V-100

JOB. NO: 1-3602.01

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND

- — — — — LIMIT OF WORK
- --- --- EROSION CONTROLS CONSISTING OF SILT FENCE & STRAW BALES
- △ PROTECT EXISTING STRUCTURE/TREE
- ▤ PAVEMENT REMOVAL
- ▨ PRECAST STORAGE UNITS TO BE REMOVED

SITE PREPARATION & EROSION CONTROL NOTES:

1. UNDERGROUND UTILITIES WERE NOT LOCATED AS PART OF THIS SURVEY. LOCATIONS MUST BE DETERMINED IN THE FIELD BEFORE EXCAVATING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THE PLAN. BSC ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN. BEFORE BEGINNING WORK, THE APPROPRIATE PUBLIC UTILITY ENGINEERING DEPARTMENTS MUST BE CONSULTED 72 HOURS BEFORE CONSTRUCTION, CALL "DIG SAFE" 1-888-344-7233.
2. CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE OWNER AND APPROPRIATE UTILITY COMPANIES PRIOR TO COMMENCING WORK.
3. LIMIT OF WORK SHOWN IS INTENDED TO BE THE APPROXIMATE LIMIT OF TREE REMOVAL, CLEARING AND GRUBBING AND OTHER CONSTRUCTION ACTIVITIES.
4. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN ALL EROSION CONTROL MEASURES AND SEEDED EMBANKMENTS DURING CONSTRUCTION. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH EPA'S NPDES PERMITTING FOR CONSTRUCTION ACTIVITIES, AS APPLICABLE.
5. THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE SITE. SEDIMENT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS.
6. EROSION CONTROL SHALL, AT MINIMUM, BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY.
7. SPRINKLE OR APPLY DUST SUPPRESSANTS TO KEEP DUST WITHIN TOLERABLE LIMITS AT THE CONSTRUCTION SITE.
8. CONTRACTOR SHALL STABILIZE ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 14 DAYS OR MORE IN ACCORDANCE WITH THE SWPPP. IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
10. SEDIMENT ALONG PERIMETER SEDIMENT CONTROLS MUST BE REMOVED ONCE SEDIMENT REACHES A LEVEL OF DEPOSITION EQUAL TO HALF THE HEIGHT OF THE BARRIER OR IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN RECOMMENDATIONS.
11. ALL MATERIALS TO BE REMOVED FROM SITE TO BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
12. CONSTRUCTION ENTRANCE SHALL BE INSPECTED WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE. THE CONSTRUCTION ENTRANCE SHALL BE TOP DRESSED WITH NEW STONE ONCE THE ENTRANCE BECOMES COMPLETELY CLOGGED WITH MUD AND SOIL PARTICLES.
13. SEE STORMWATER POLLUTION PREVENTION PLAN PRIOR TO TREE CLEARING AND EARTH DISTURBANCE.

TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

CHAIR

DATE



87 Haverhill Avenue
Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER DATE

SHEA CONCRETE
PROPOSED
MANUFACTURING

160 OLD TURNPIKE ROAD

IN

NOTTINGHAM
NEW HAMPSHIRE
(ROCKINGHAM COUNTY)

SITE PREPARATION
PLAN

SEPTEMBER 6, 2022

REVISIONS:

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617 896 4300

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SCALE: 1" = 60'



FILE: PROJECTS/AND/1360201/C/D/

DWG: SHEET C-101

JOB. NO: 1-3602.01

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND

- · — LIMIT OF WORK
- PROPOSED LOAD AND SEED
- PROPOSED GRAVEL STORAGE AREA
- PROPOSED CONCRETE PAD
- PROPOSED GRAVEL
- PROPOSED BITUMINOUS PAVEMENT
- X — PROPOSED SPLIT RAIL FENCE

LAYOUT & MATERIAL NOTES:

1. PROPOSED LANDSCAPE BUFFER TO MEET ALL REQUIREMENTS OF NOTTINGHAM ZONING ORDINANCES. FINAL PLANT TYPES AND LOCATIONS REQUIRE FURTHER COORDINATION.
2. SEE DETAIL SHEETS FOR ADDITIONAL INFORMATION ON FIRE CISTERN. FINAL LOCATION AND LAYOUT TO BE APPROVED BY NOTTINGHAM FIRE RESCUE.
3. PROPOSED PARKING AREA TO REMAIN GRAVEL. SPACES SHOWN FOR PARKING SPACE COUNT AND CONFIGURATION ONLY.
4. PROPOSED SEPTIC SYSTEM SHOWN IS APPROXIMATE IN SIZE AND LOCATION. FINAL DESIGN TO BE PROVIDED BY OTHERS.
5. ALL EXISTING PAVEMENT IN THE VICINITY OF THE PROPOSED WORK IS TO BE RESTORED, IF DAMAGED, AT NO ADDITIONAL COST TO THE OWNER. ALL PAVEMENT WORK SHALL BLEND WITH EXISTING PAVEMENT WITH SAWCUTS AND EMULSION APPLIED TO ALL CUT SURFACES.

ZONING DIMENSIONAL TABLE — COMMERCIAL/INDUSTRIAL		
	REQUIRED	PROVIDED
MIN. LOT AREA	2 ACRES	25.10 ACRES
MIN. LOT FRONTAGE	200 FT	637 FT
MIN. FRONT YARD	150 FT	>150 FT
MIN. SIDE YARD	100 FT	62.5 FT²
MIN. REAR YARD	100 FT	>100 FT
MAXIMUM LOT COVERAGE	50%	<50%
MAXIMUM HEIGHT	34 FT ABOVE GRADE PLANE	40 FT¹ (WAIVER)
GREEN SPACE	NONE REQUIRED	N/A

1. A VARIANCE FROM THE REQUIREMENTS OF THE TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.g: DIMENSIONAL REQUIREMENTS (MAXIMUM BUILDING HEIGHT IN AN INDUSTRIAL USE ZONE) HAS BEEN APPROVED.
2. A VARIANCE FROM THE REQUIREMENTS OF THE TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.g.2: DIMENSIONAL REQUIREMENTS (MINIMUM SIDE SETBACK IN AN INDUSTRIAL USE ZONE) FOR CONCRETE BUILDING APRON HAS BEEN APPROVED.

PARKING TABLE			
DESCRIPTION	REQUIRED	EXISTING	PROPOSED
STANDARD SPACES	SEE NOTE 1	24	24
STANDARD ACCESSIBLE SPACES	N/A	---	---
VAN ACCESSIBLE SPACES	N/A	---	2
TOTAL SPACES	SEE NOTE 1	24	26

1. REQUIRED PARKING IS THAT WHICH IS ADEQUATE FOR EMPLOYEES AND PATRONS PER TOWN OF NOTTINGHAM ZONING ORDINANCE ARTICLE II, SECTION E.2.e.
2. EXISTING PARKING SPACES ARE ESTIMATED TO BE 20-24.
3. IT IS PROPOSED TO REVISE THE CURRENT PARKING CONFIGURATION TO ACCOMMODATE 24 SPACES AS SHOWN.

TOWN OF NOTTINGHAM
PLANNING BOARD

CHAIR

DATE



87 Haverhill Avenue
Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER DATE

SHEA CONCRETE
PROPOSED
MANUFACTURING

160 OLD TURNPIKE ROAD

IN

NOTTINGHAM
NEW HAMPSHIRE
(ROCKINGHAM COUNTY)

LAYOUT & MATERIALS
PLAN

SEPTEMBER 6, 2022

REVISIONS:

NO.	DATE	DESC.
1	4/4/2023	RESPONSE TO NHDES COMMENTS
2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:
SHEA CONCRETE
87 HAVERHILL AVE
AMESBURY, MA 01950



300 Brickstone Square, Suite 203
Andover, Massachusetts
01850

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SCALE: 1" = 60'

0 30 60 120 FEET

FILE: PROJECTS/AND/1360201/C/D/

DWG.: SHEET C-102

JOB. NO: 1-3602.01

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION

LEGEND

- — — — — LIMIT OF WORK
- ▨ PROPOSED LOAD AND SEED
- ▣ PROPOSED CONCRETE PAD

GRADING & DRAINAGE NOTES:

1. STORMTRAP INFILTRATION SYSTEMS (OR APPROVED EQUAL) SHOWN, DEPICT APPROXIMATE LOCATION & FOOTPRINT ONLY. FINAL DESIGN TO BE COORDINATED WITH MANUFACTURER'S DESIGN TEAM.
2. ELEVATIONS SHOWN ARE ON THE NAVD83 DATUM.
3. TEST PIT INFORMATION SHOWN WAS PROVIDED BY BAG LAND CONSULTANTS AS A RESULT OF SOIL TESTING CONDUCTED IN APRIL AND MAY, 2022.
4. PROPOSED FILL IN PROPOSED STORMWATER MANAGEMENT AREAS TO BE IN COMPLIANCE WITH ENV-WQ 1504.14 TO MEET DESIGN INFILTRATION RATE.
5. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
6. ALL UNDERGROUND STRUCTURES AND UTILITIES ARE TO BE CAPABLE OF WITHSTANDING HS-20 WHEEL LOADS.
7. RIM ELEVATIONS OF PROPOSED MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINISHED GRADES.
8. ALL DRAINAGE STRUCTURES TO BE CLEANED AT COMPLETION OF THE PROJECT.
9. ALL PROPOSED DRAINAGE PIPE IS 12" HDPE UNLESS OTHERWISE NOTED.
10. SEE STORMWATER REPORT FOR DISSIPATION BASIN SIZING CALCULATIONS.

TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

CHAIR

DATE



87 Haverhill Avenue
Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER

DATE

SHEA CONCRETE
PROPOSED
MANUFACTURING

160 OLD TURNPIKE ROAD

IN

NOTTINGHAM
NEW HAMPSHIRE
(ROCKINGHAM COUNTY)

GRADING & DRAINAGE
PLAN

SEPTEMBER 6, 2022

REVISIONS:

NO.	DATE	DESC.
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2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:

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AMESBURY, MA 01950



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SCALE:



FEET

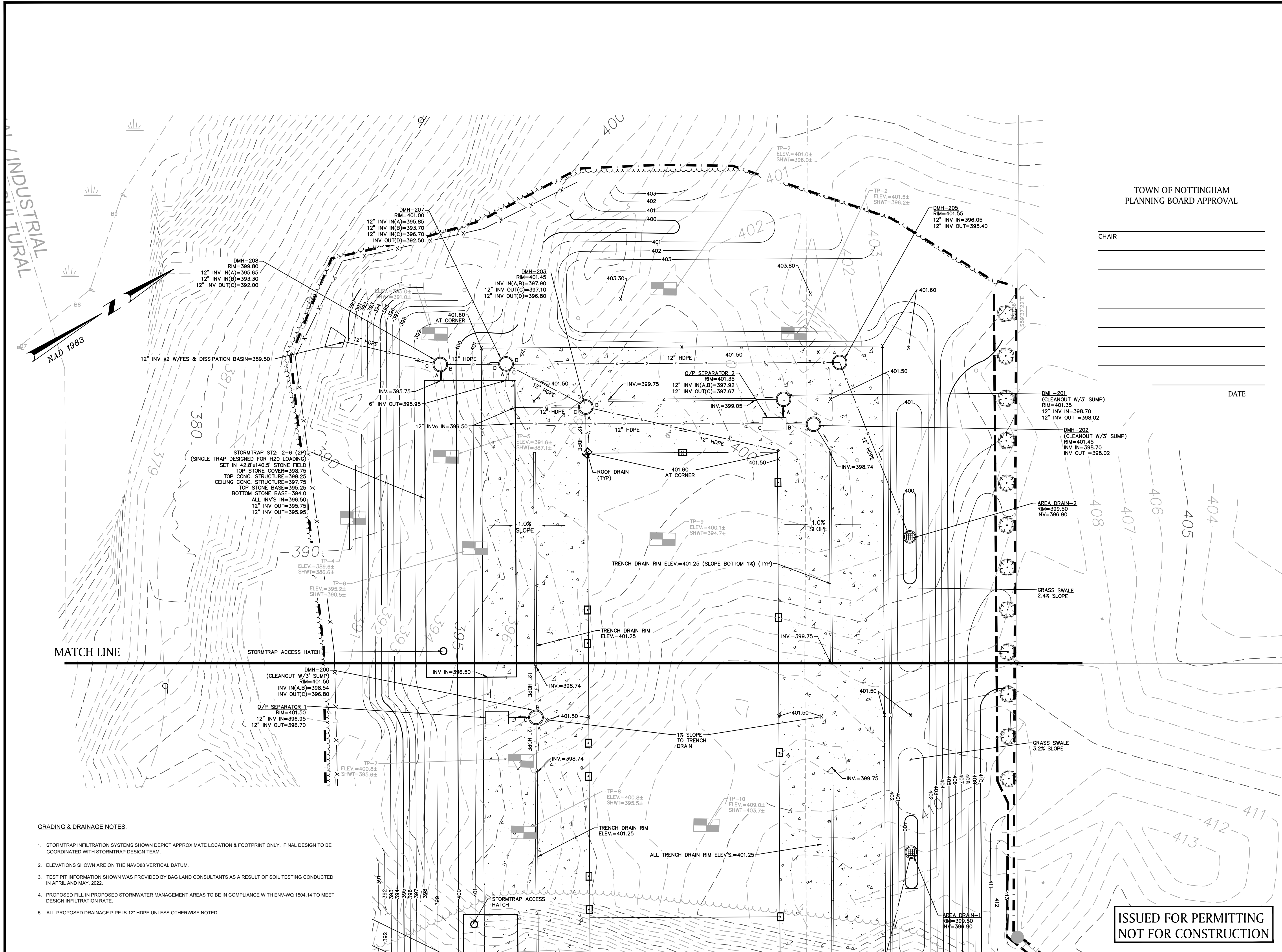
FILE: PROJECTS/AND/1360201/C/D/

DWG:

JOB. NO: 1-3602.01

SHEET C-103

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NOT FOR CONSTRUCTION



- GRADING & DRAINAGE NOTES:**
- STORMTRAP INFILTRATION SYSTEMS SHOWN DEPICT APPROXIMATE LOCATION & FOOTPRINT ONLY. FINAL DESIGN TO BE COORDINATED WITH STORMTRAP DESIGN TEAM.
 - ELEVATIONS SHOWN ARE ON THE NAVD88 VERTICAL DATUM.
 - TEST PIT INFORMATION SHOWN WAS PROVIDED BY BAG LAND CONSULTANTS AS A RESULT OF SOIL TESTING CONDUCTED IN APRIL AND MAY, 2022.
 - PROPOSED FILL IN PROPOSED STORMWATER MANAGEMENT AREAS TO BE IN COMPLIANCE WITH ENV-WQ 1504.14 TO MEET DESIGN INFILTRATION RATE.
 - ALL PROPOSED DRAINAGE PIPE IS 12" HDPE UNLESS OTHERWISE NOTED.

ISSUED FOR PERMITTING
NOT FOR CONSTRUCTION



87 Haverhill Avenue
Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER DATE

**SHEA CONCRETE
PROPOSED
MANUFACTURING**

160 OLD TURNPIKE ROAD
IN
NOTTINGHAM
NEW HAMPSHIRE
(ROCKINGHAM COUNTY)

**GRADING & DRAINAGE
PLAN (DETAIL PLAN 2)**

SEPTEMBER 6, 2022

REVISIONS:		
NO.	DATE	DESC.
1	4/4/2023	RESPONSE TO NHDES COMMENTS
2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:
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AMESBURY, MA 01950



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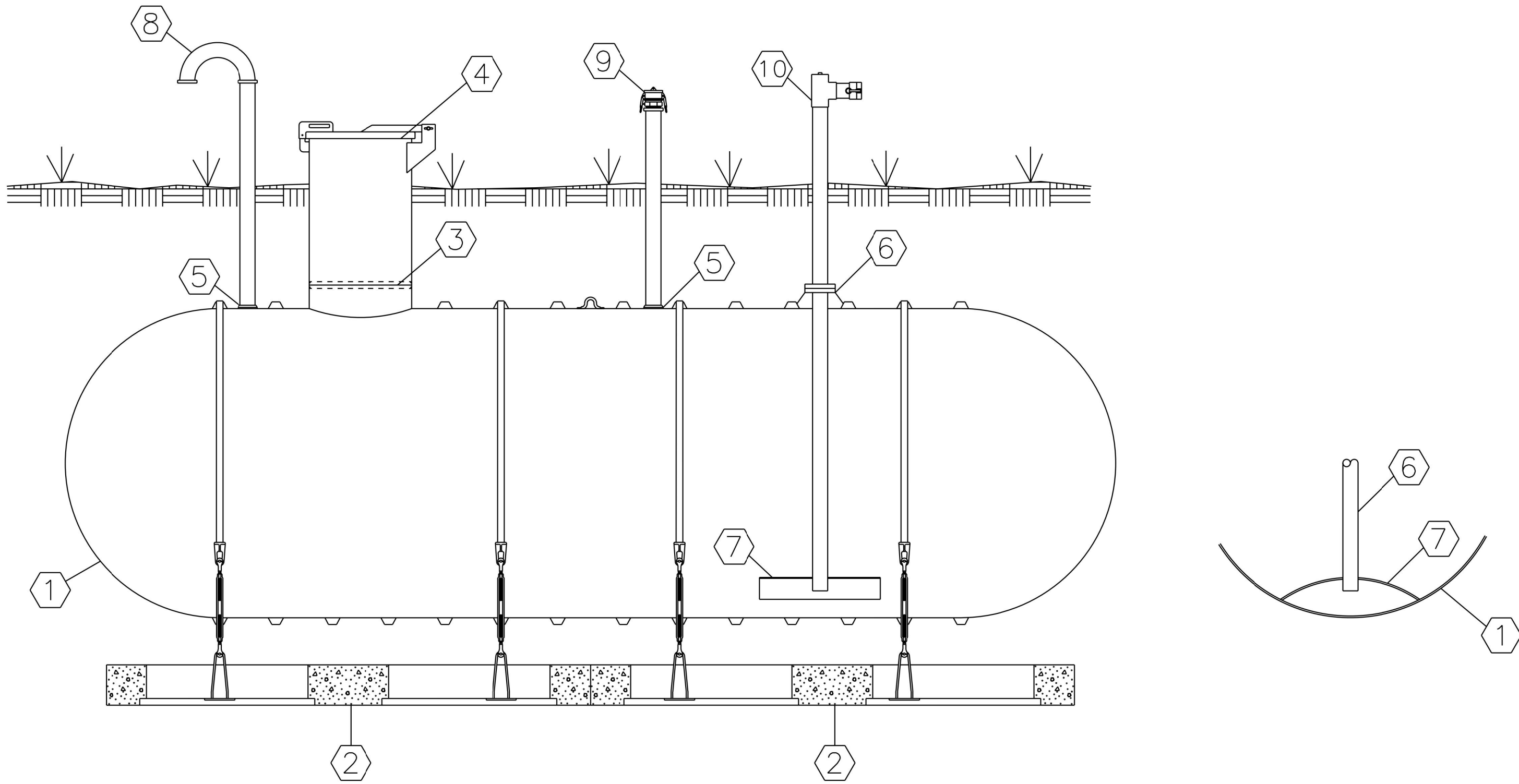
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SCALE: 1" = 20'

0 10 20 40 FEET

FILE: PROJECTS/AND/1360201/C/D/
DWG:
JOB. NO: 1-3602.01 SHEET C-103.2



NO.	DESCRIPTION
1	XERXES SINGLE WALL FRP TANK
2	XERXES PRECAST DEADMAN SYSTEM W/ HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY
3	30" I.D. ACCESS OPENING WITH ALIGNMENT RING
4	30" FRP RISER PIPE WITH HINGED & LOCKABLE TOP & GEL COAT
5	4" NPT SERVICE FITTING
6	4" FRP FLANGED & GUSSETED DOWN PIPE
7	FRP ANTI-VORTEX PLATE
8	4" VENT PIPE WITH BIRD SCREEN
9	4" FILL W/CAM LOCK CONNECTION
10	4" SUCTION W/FDC

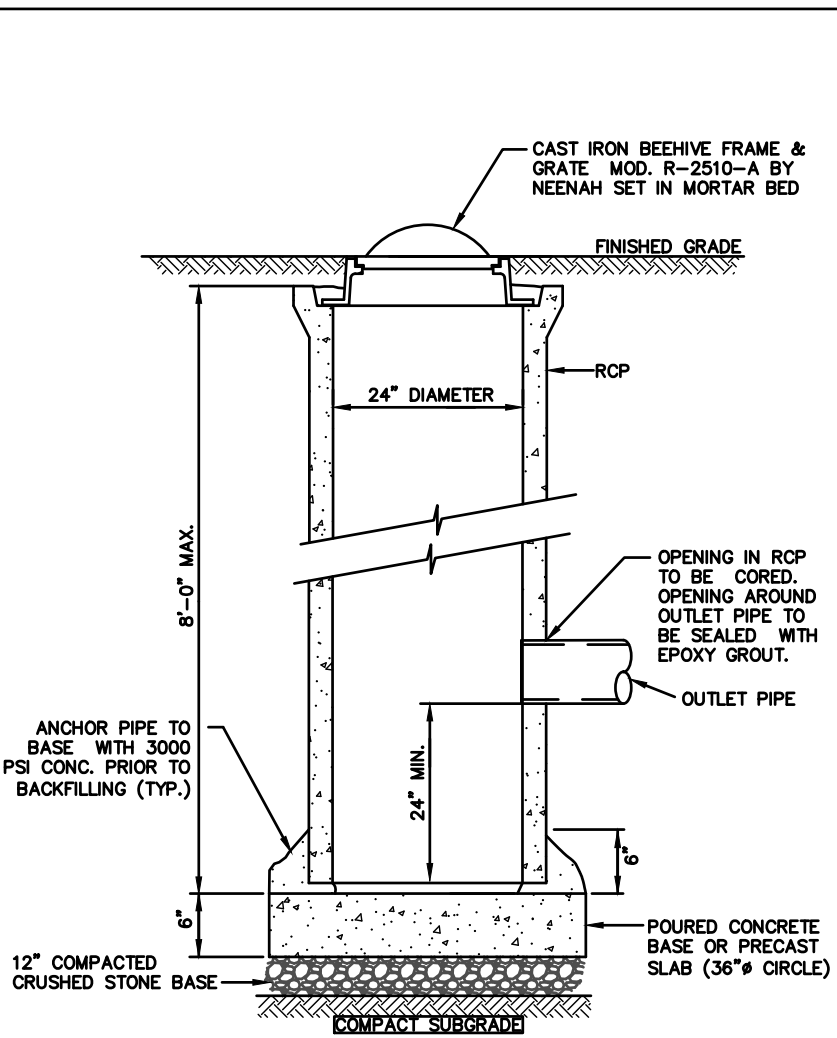
FIRE WATER

This drawing is for illustrative purposes only.
Consult with an engineer for specific applications.

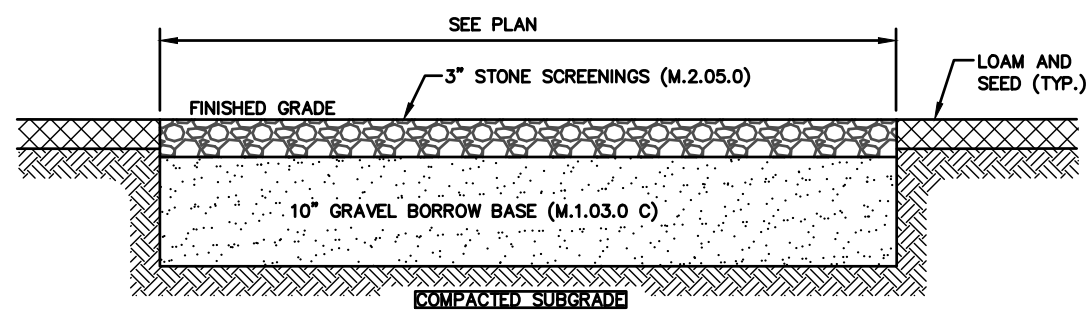
XERXES[®]
a **zcl** company

TITLE FIRE WATER STORAGE
VERTICAL SUCTION
WITH ANTI-VORTEX PLATE

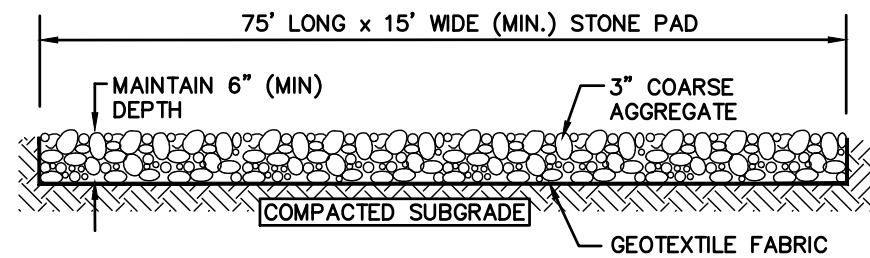
DATE 9-14 DR. NO. S20-311-01



AREA DRAIN INLET (RCP)
SCALE: NONE

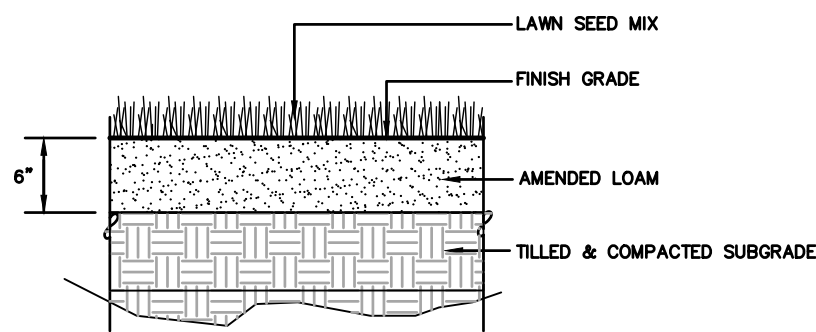


GRAVEL DRIVEWAY
SCALE: NONE

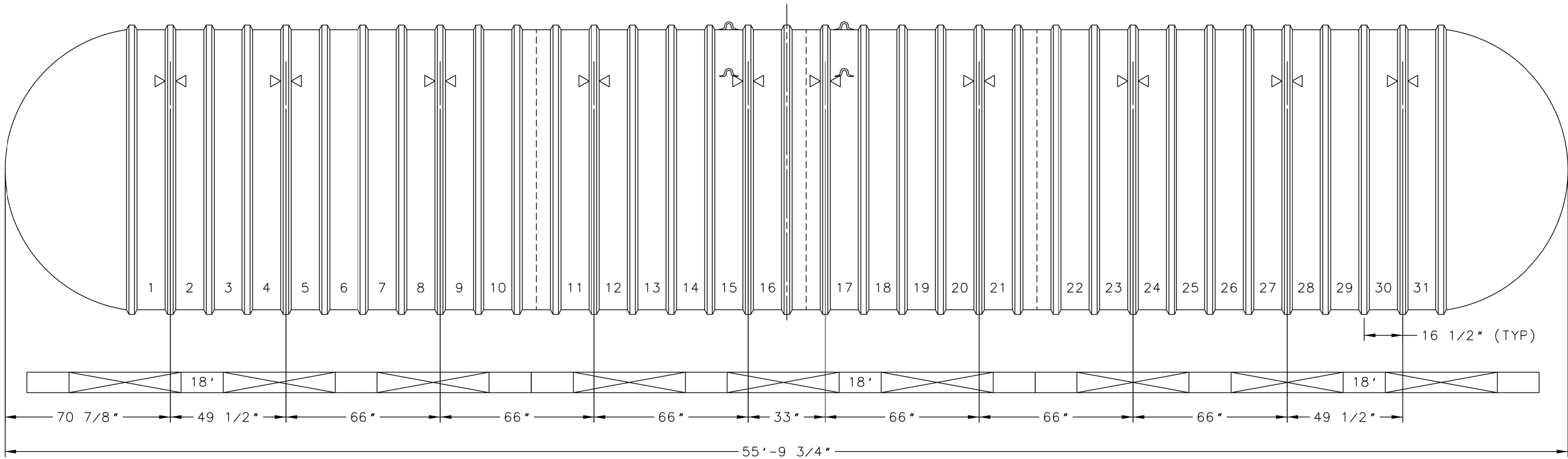


TEMPORARY CONSTRUCTION ENTRANCE
SCALE: NONE

NOTE:
SEE SPECIFICATION FOR SEED MIX
APPLICATION AND LOAM AMENDMENTS



LOAM AND SEED
SCALE: NONE



NOTE:
FIRE CISTERN DETAILS WERE PROVIDED BY THE MANUFACTURER FOR
SIZING PURPOSES ONLY. FINAL CISTERN DESIGN TO BE PROVIDED BY
MANUFACTURER AND APPROVED BY FIRE DEPARTMENT PRIOR TO
INSTALLATION

30,000 GALLON SINGLE-WALL PLASTIC FIRE CISTERN (OR APPROVED EQUAL)
SCALE: NONE

Optional prefabricated engineered concrete deadmen shown

XERXES[®]

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TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

CHAIR

DATE



87 Haverhill Avenue
Amesbury, Massachusetts 01950

PROFESSIONAL ENGINEER

DATE

SHEA CONCRETE
PROPOSED
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160 OLD TURNPIKE ROAD

IN

NOTTINGHAM
NEW HAMPSHIRE
(ROCKINGHAM COUNTY)

DETAIL SHEET I

SEPTEMBER 6, 2022

REVISIONS:

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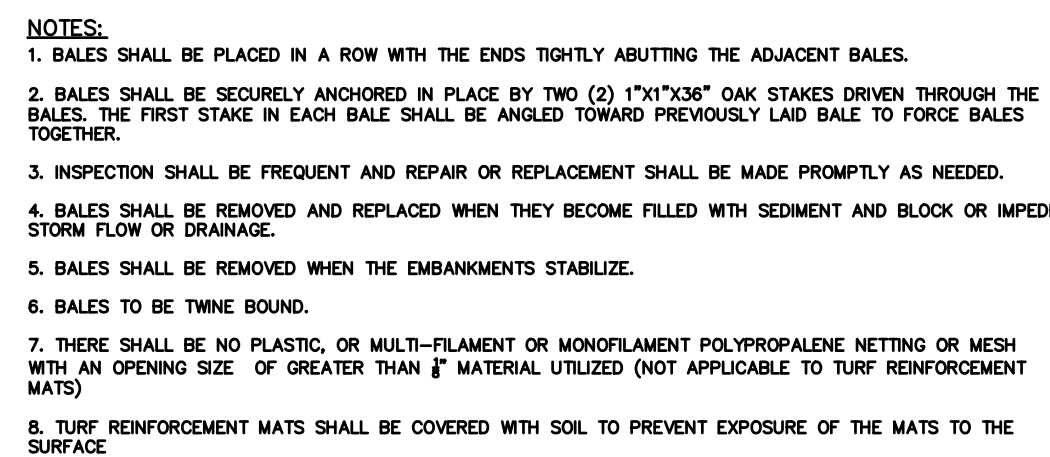
SCALE: AS NOTED

FILE: PROJECTS/AND/1360201/C/D/

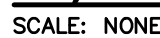
DWG.:

JOB. NO: 1-3602.01

SHEET C-200



SCALE: NONE

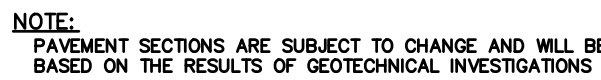


DATE _____



DATE _____

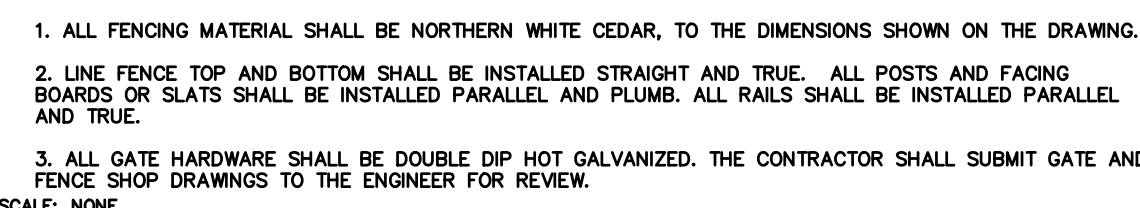
SEPTEMBER 6, 2022



SCALE: NONE



SCALE: NONE





1. THE TRAP SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE DISTURBED AREA OR SOURCE OF SEDIMENT AS POSSIBLE
2. THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP SHALL BE LESS THAN 5 ACRES.
3. THE MINIMUM VOLUME OF THE TRAP SHALL BE 3600 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA
4. THE SIDE SLOPES OF THE TRAP SHALL BE 3:1 OR FLATTER, AND SHALL BE STABILIZED IMMEDIATELY AFTER THEIR CONSTRUCTION
5. STABILIZE EARTHEN EMBANKMENT BY SEEDING OR PROVIDE STONE SLOPE PROTECTION IMMEDIATELY AFTER INSTALLATION.
6. NON-OVERFLOW PORTIONS AND ABUTMENTS OF TEMPORARY SEDIMENT TRAPS MAY BE CONSTRUCTED OF COMPACTED EARTHFILL.
7. THE TRAP SHALL BE CLEANED WHEN 50 PERCENT OF THE ORIGINAL VOLUME IS FILLED

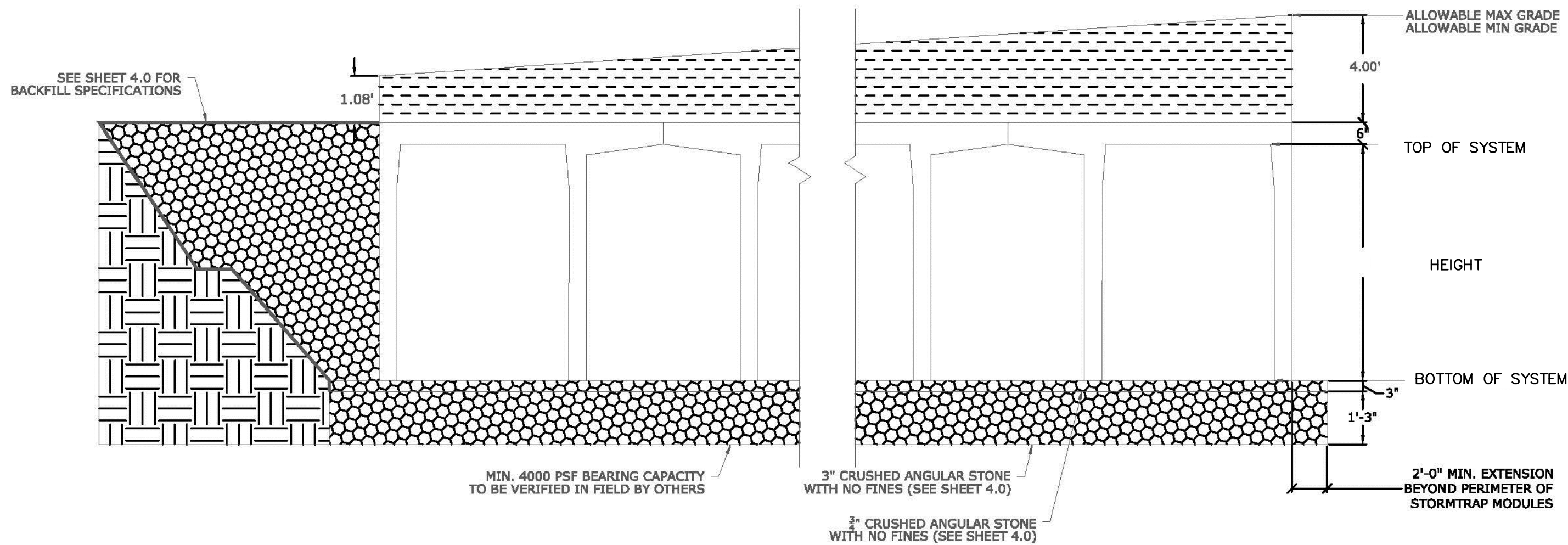
617 896 4300

SCALE: AS NOTED

DWG :

JOB NO: 1-3602 01	SHEET C.
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SHEET C-201



SINGLETRAP

STORMTRAP STRUCTURAL DESIGN CRITERIA

1. STORMTRAP MODULES SHALL BE MANUFACTURED AND INSTALLED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER OF RECORD. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET / OUTLET PIPE TYPES, SIZES, INVERT ELEVATIONS AND SIZE OF OPENINGS.
2. COVER RANGE: MIN 1.08'. MAX 4.00'. CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE REQUIRED TO BE VERIFIED IN THE FIELD BY OTHERS PRIOR TO STORMTRAP INSTALLATION.

INFILTRATION SYSTEM #	TOP OF SYSTEM	BOTTOM OF SYSTEM	HEIGHT
INFIL-1	178.00'	175.00'	3.00'
INFIL-2	180.00'	178.00'	2.00'
INFIL-3	181.50'	177.50'	4.00'
INFIL-4	190.50'	188.50'	2.00'
INFIL-5	189.10'	186.60'	2.50'
INFIL-6	189.50'	186.00'	3.50'
INFIL-7	173.50'	171.00'	2.50'
INFIL-8	172.00'	168.00'	4.00'

RECOMMENDED ACCESS OPENING SPECIFICATION

1. A TYPICAL ACCESS OPENING FOR THE STORMTRAP SYSTEM ARE 2'-0" IN DIAMETER. ACCESS OPENINGS LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE FROM THE END OF THE STORMTRAP MODULE UNLESS NOTED OTHERWISE. ALL ACCESS OPENINGS TO BE LOCATED ON INSIDE LEG UNLESS OTHERWISE SPECIFIED.
2. PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PS3-PFC OR APPROVED EQUAL (SEE STEP DETAIL) ARE PROVIDED INSIDE ANY MODULE WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE MODULE IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP MODULES. ALL ENSUING STEPS SHALL BE PLACED WITH A MAXIMUM DISTANCE OF 1'-4" BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENINGS OR OTHER IRREGULARITIES IN THE MODULE.
3. STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO AVOID INTERFERENCE WITH ACCESS OPENINGS OR THE CENTER OF GRAVITY OF THE MODULE AS NEEDED.
4. STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
5. ACCESS OPENINGS SHOULD BE LOCATED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. STORMTRAP RECOMMENDS AT LEAST TWO ACCESS OPENINGS PER SYSTEM FOR ACCESS AND INSPECTION.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE INSPECTIONS. (PROVIDED BY OTHERS)

RECOMMENDED PIPE OPENING SPECIFICATION

1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. MAXIMUM OPENING SIZE TO BE DETERMINED BY THE MODULE HEIGHT. PREFERRED OPENING SIZE IS Ø 36" OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
3. CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND AN AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH (SEE PIPE CONNECTION DETAIL). A STRUCTURAL GRADE CONCRETE OR HIGH STRENGTH, NON-SHRINK GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
4. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH HIGH STRENGTH NON-SHRINK GROUT.

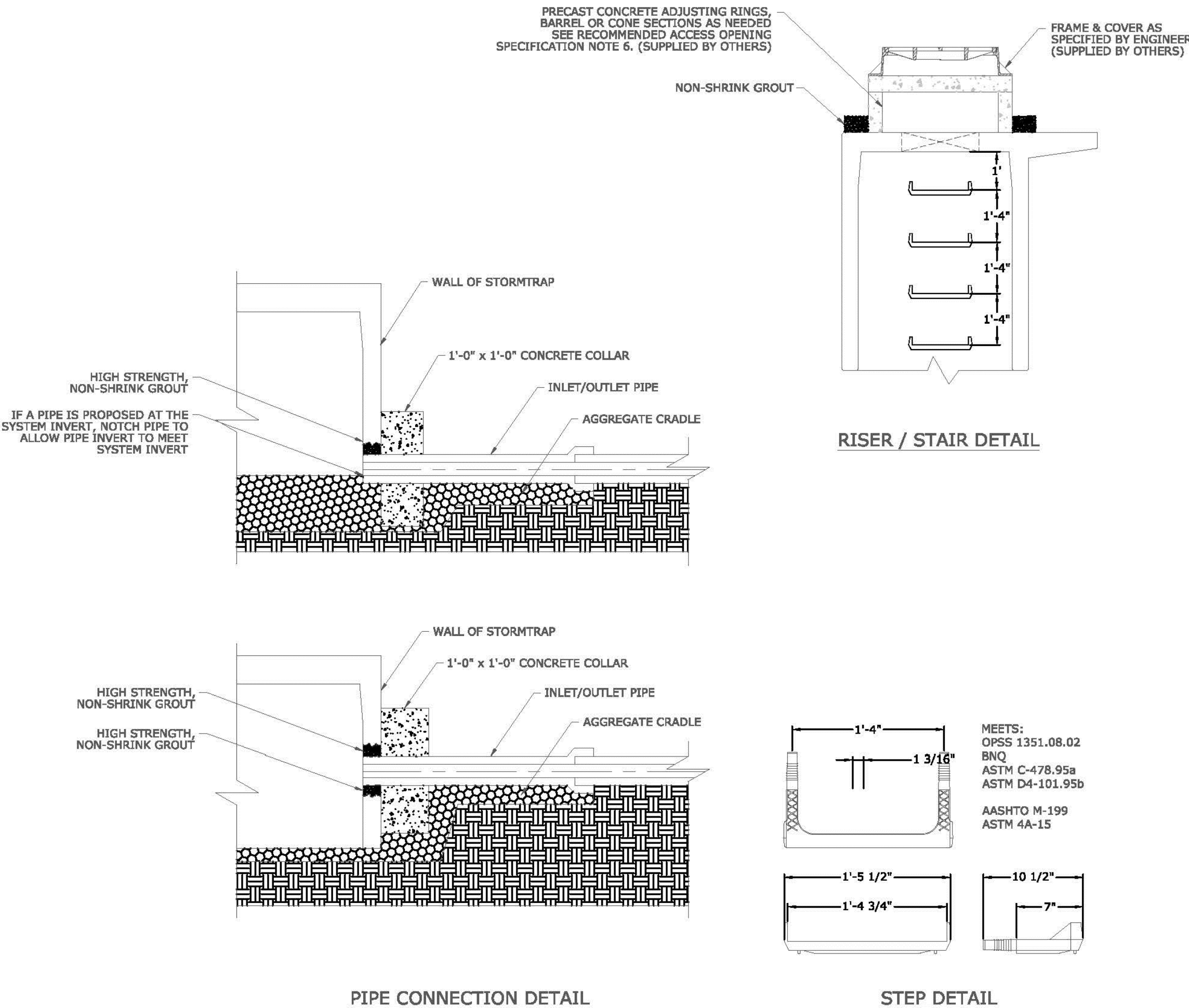
RECOMMENDED PIPE INSTALLATION INSTRUCTIONS

1. CLEAN AND LIGHTLY LUBRICATE ALL OF THE PIPE TO BE INSERTED INTO STORMTRAP.
2. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
3. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.

NOTE: ALL ANCILLARY PRODUCTS RECOMMENDED AND SHOWN ON THIS SHEET ARE RECOMMENDATIONS ONLY AND SUBJECT TO CHANGE PER THE INSTALLING CONTRACTOR.

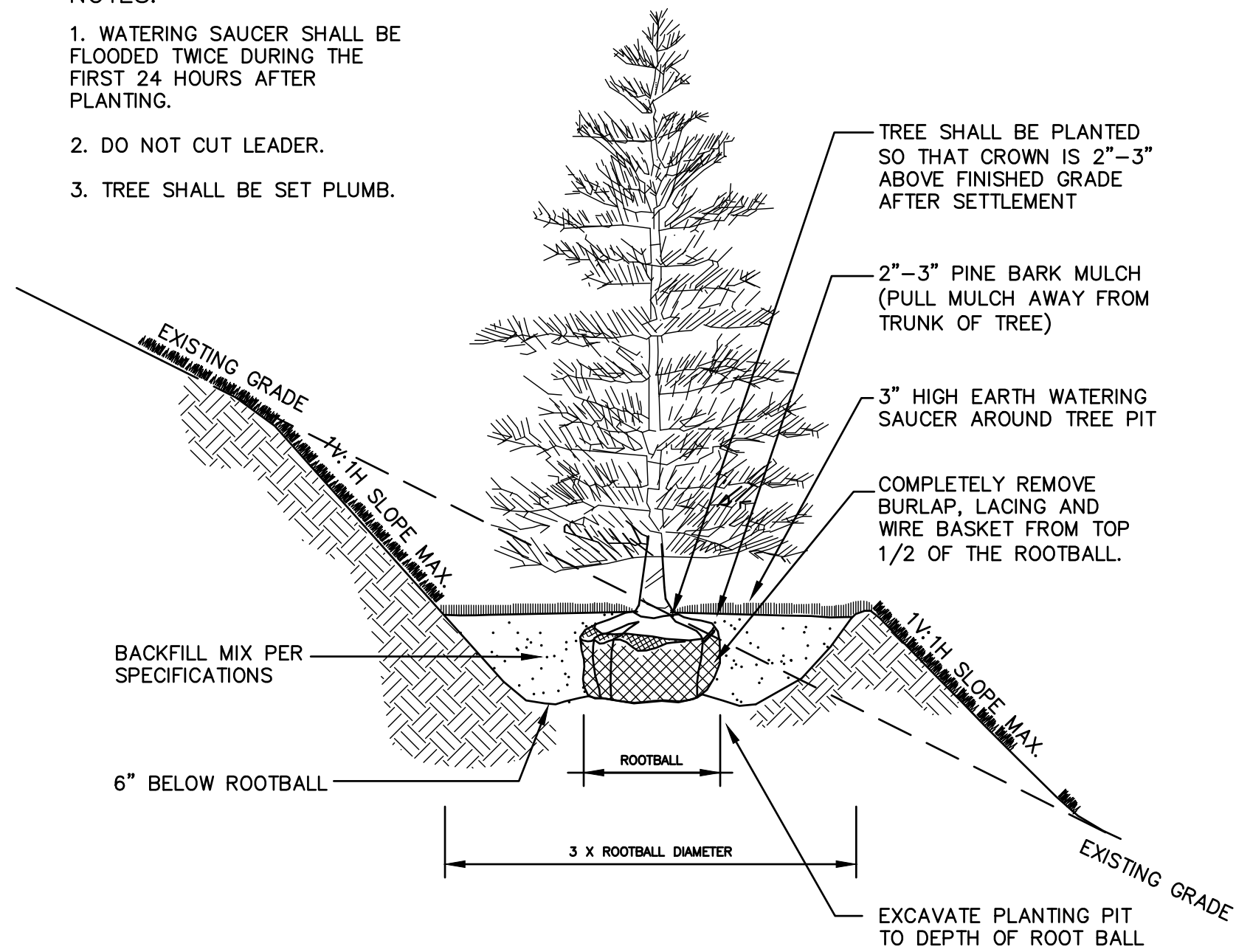
STORMTRAP OR APPROVED EQUAL

SCALE: NONE



NOTES:

1. WATERING SAUCER SHALL BE FLOODED TWICE DURING THE FIRST 24 HOURS AFTER PLANTING.
2. DO NOT CUT LEADER.
3. TREE SHALL BE SET PLUMB.



TREE (SLOPE PLANTING)

SCALE: NONE

TOWN OF NOTTINGHAM
PLANNING BOARD APPROVAL

CHAIR

DATE



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Amesbury, Massachusetts 01950



PROFESSIONAL ENGINEER

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160 OLD TURNPIKE ROAD

IN

NOTTINGHAM
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DETAIL SHEET III

SEPTEMBER 6, 2022

REVISIONS:

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1	4/4/2023	RESPONSE TO NHDES COMMENTS
2	10/6/2023	FIRE CISTERN CHANGES

PREPARED FOR:

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SHEET C-202

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