

# PROPOSED SITE PLAN DOCUMENTS



FOR  
PROPOSED  
CHILD CARE FACILITY

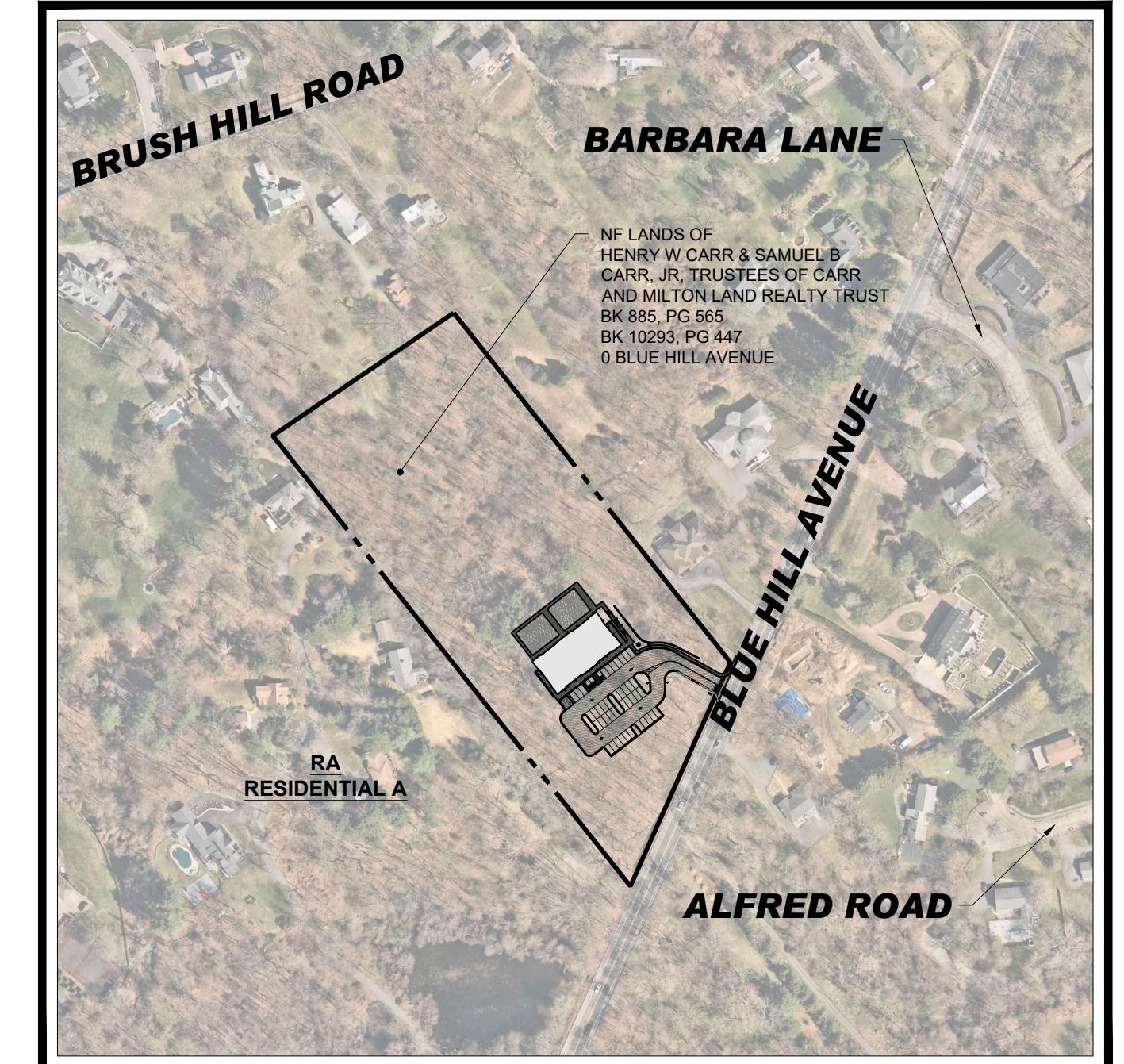
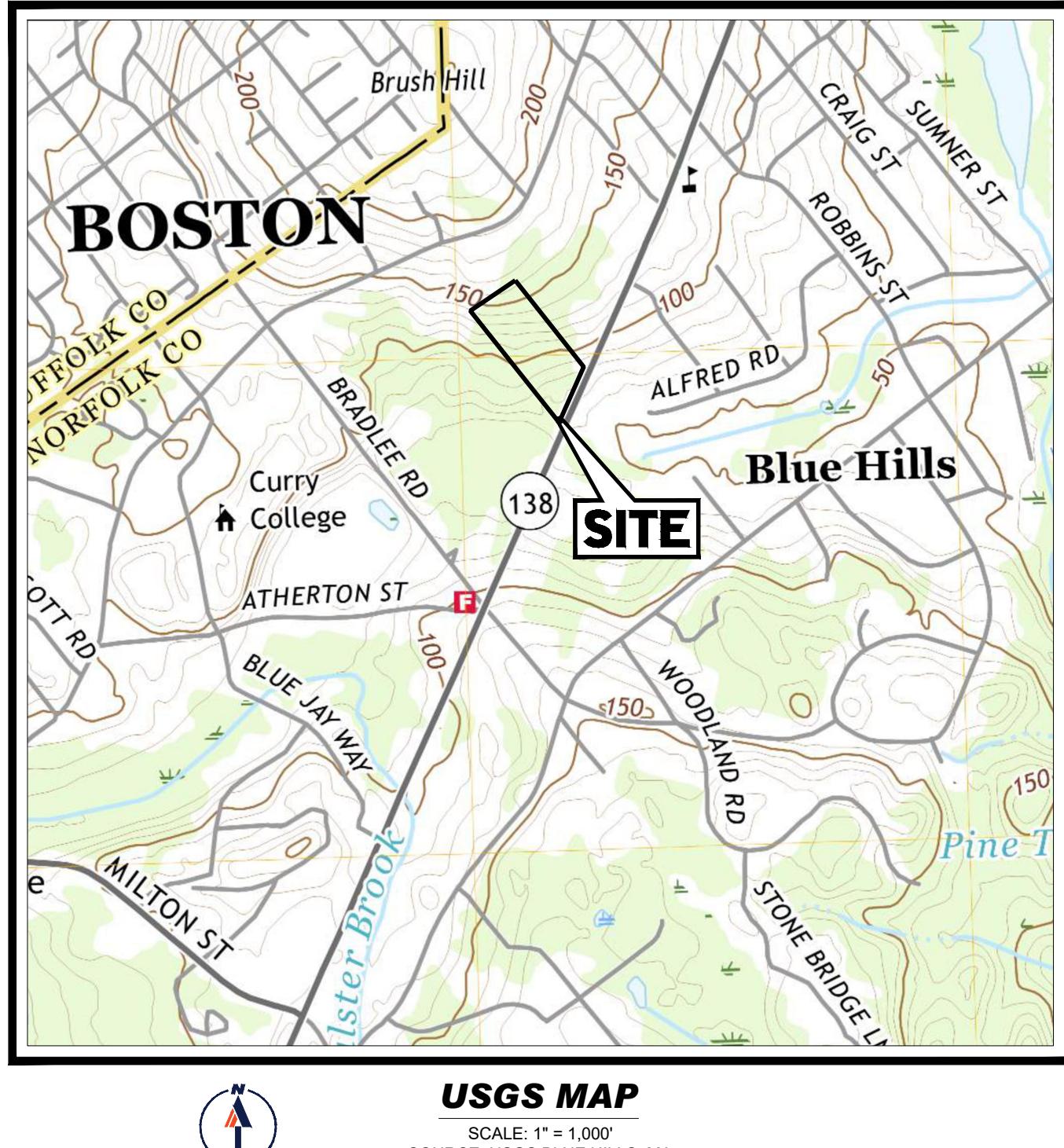
LOCATION OF SITE  
0 BLUE HILL AVENUE, TOWN OF MILTON  
NORFOLK COUNTY, MASSACHUSETTS

MAP B7, LOT 5

REFERENCES AND CONTACTS

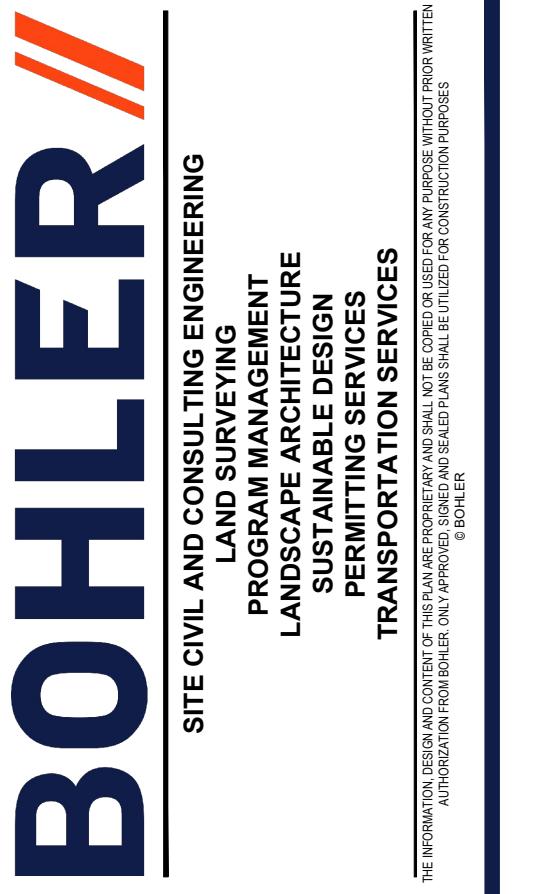
REFERENCES
♦ ALTA SURVEY: CONTROL POINTS ASSOCIATES, INC. 302 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 DATED: 07/17/2024 SURVEY JOB #: 03-240178-00 ELEVATIONS: NAVD 1988
♦ GEOTECHNICAL INVESTIGATION REPORT: WHITESTONE ASSOCIATES, INC. 302 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 DATED: 09/23/2024
♦ ARCHITECTURAL PLAN: NORR 325 N LA SALLE STREET SUITE 500 CHICAGO, IL 60654 DATED: 08/28/2024

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PREPARED BY

BOHLER //



REVISIONS			
REV	DATE	COMMENT	DRAWN BY
1	10/31/2024	RESPONSE TO TOWN COMMENTS	SBB AWP
2	12/06/2024	TWO STORY BUILDING	SBB AWP
3	01/15/2025	NEW LAYOUT	SBB AWP
4	02/05/2025	PB COMMENTS	AWP



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PERMIT SET	
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PROJECT No.:	MAA240187-00-4A
DRAWN BY:	SBB
CHECKED BY:	AWP
DATE:	08/28/2024
CAD ID.:	P-CIVL-CNDS
PROJECT:	
SITE DEVELOPMENT PLANS	
FOR	
THE GARDNER SCHOOLS PROPOSED CHILD CARE FACILITY	
MAP: B7   LOT: 5	
0 BLUE HILL AVENUE	
NORFOLK COUNTY	
MILTON, MA	



COVER SHEET	
SHEET NUMBER:	C-101

REVISION 4 - 02/05/2025

## **GENERAL NOTES**

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v. 1/2023)

# **DEMOLITION NOTES**

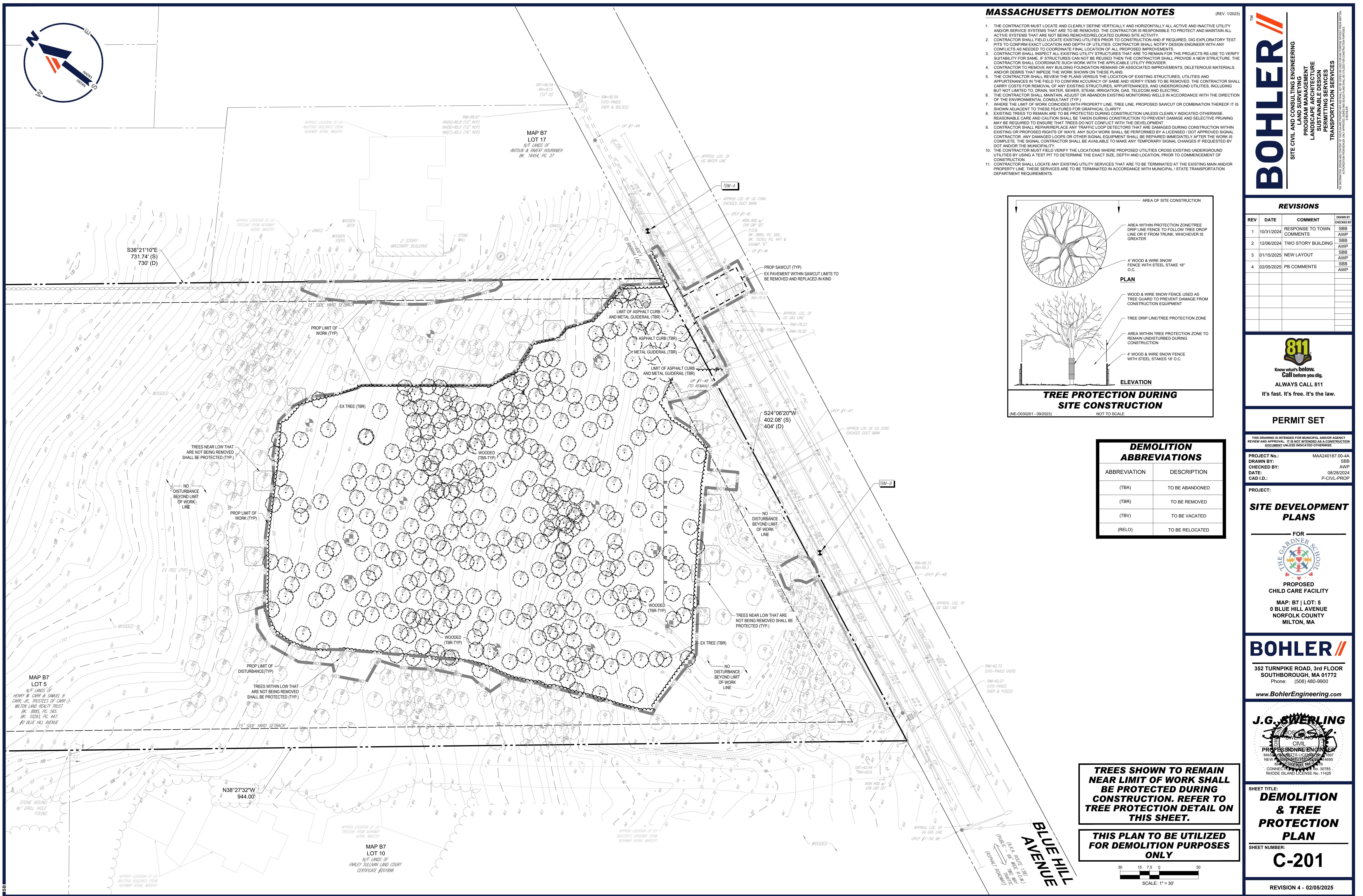
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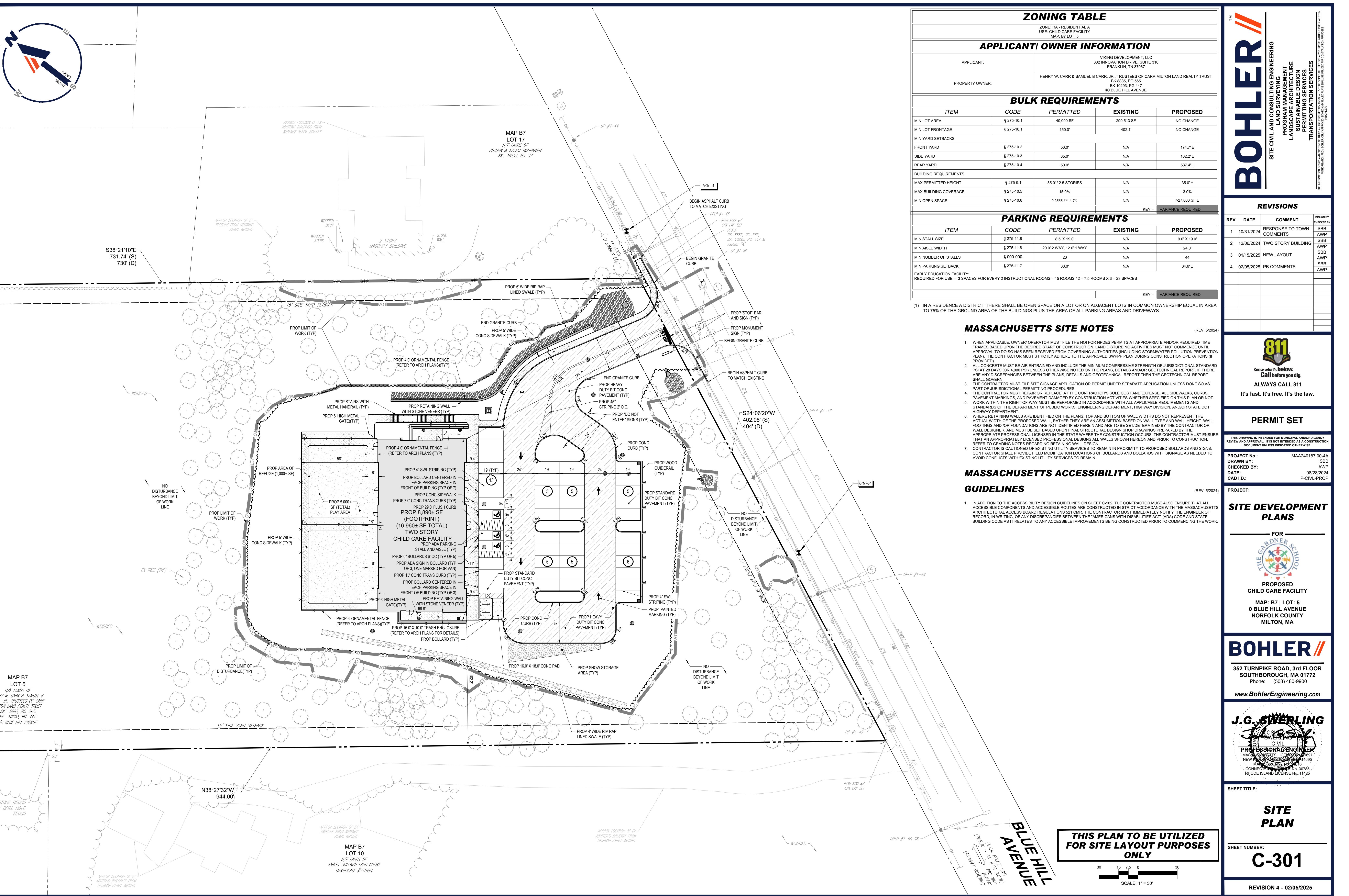
## **DING NOTES**

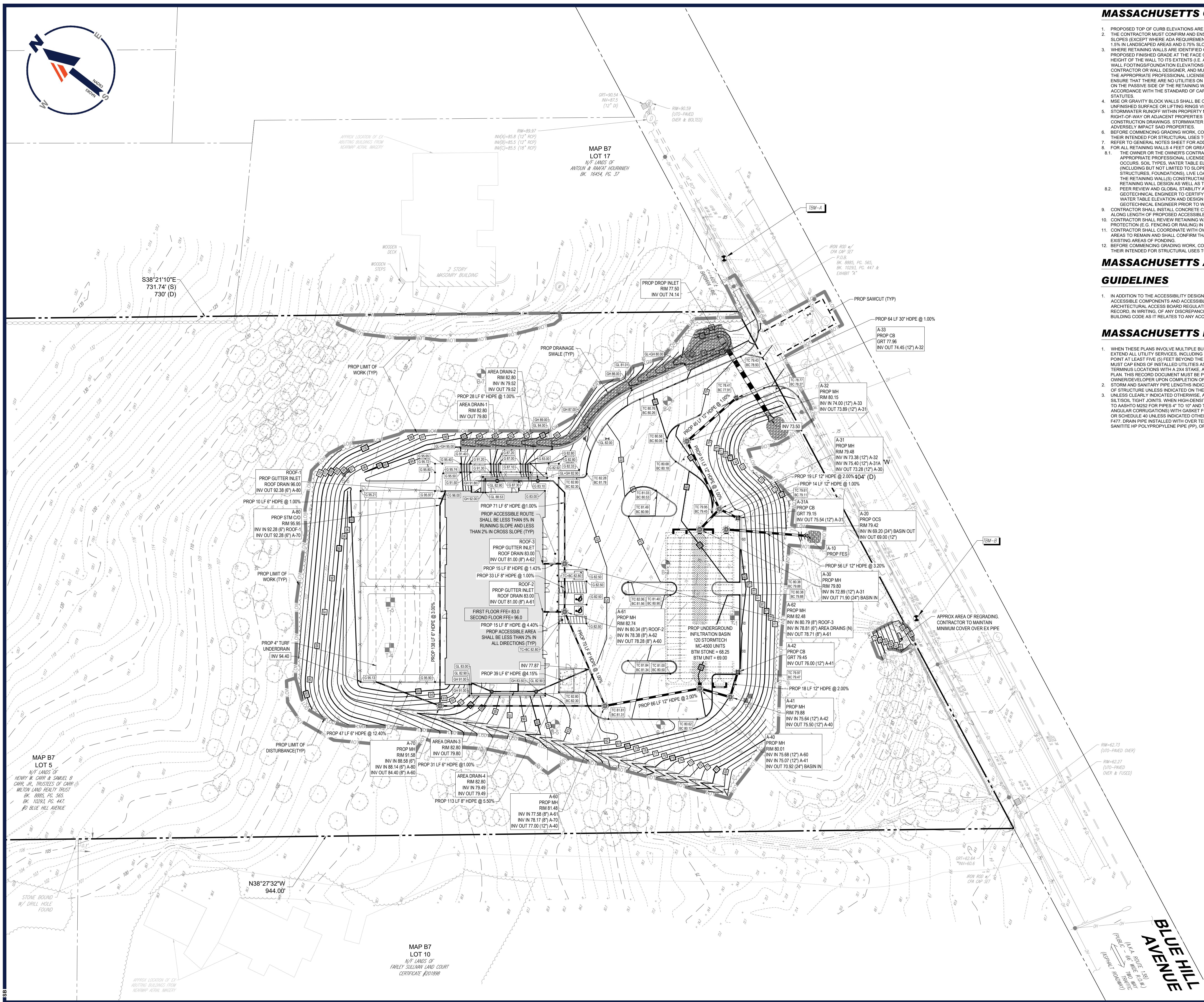
## **ADING R**

<b>STANDARD ABBREVIATIONS</b>		<b>STANDARD DRAWING LEGEND</b>		
		FOR ENTIRE PLAN SET		
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	MAX	Ø DIAMETER	STANDARD DRAWING LEGEND FOR ENTIRE PLAN SET
AC	ACRE / ACRES	ME	LIMIT OF WORK	LOW LOW
AD	AREA DRAIN	MEP	LIMIT OF DISTURBANCE	LOD LOD
ADA	ACCESSIBLE / AMERICANS WITH DISABILITIES ACT	MH	SAWCUT LINE	---
AG	ABOVE GROUND	MIN	EXISTING NOTE	TYPICAL NOTE TEXT
APPROX	APPROXIMATE	MJ	PROPOSED NOTE	
ARCH	ARCHITECTURAL	MUTCD	ONSITE PROPERTY LINE / R.O.W. LINE	
ASPH	ASPHALT	NOAA	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	
ASSF	AREA SUBJECT TO STORMWATER FLOWAGE	NRCS	EASEMENT LINE	
ASSOC	ASSOCIATION	O&M	SETBACK LINE	
BC	BOTTOM OF CURB	OC	CURB AND GUTTER	
BF	BASEMENT FLOOR	OCS	SPILL TRANSITION	
BIO	BIOGARDEN	OGS	DEPRESSED CURB AND GUTTER	
BIT	BITUMINOUS	ORD		
BK	BLOCK	PA / POA		
BL	BASELINE	PC		
BLDG	BUILDING	PCCR		
BM	BENCH MARK	PERF		
BRL	BUILDING RESTRICTION LINE	PG		
BVW	BORDERING VEGETATIVE WETLAND	PI		
CB	CATCH BASIN	POG		
CF	CUBIC FEET	PP		
CI	CURB INLET	PROP		
CIT	CHANGE IN TYPE	PT		
CL	CENTER LINE	PTCR		
CMP	CORRUGATED METAL PIPE	PVI		
C/O	CLEAN OUT	PVMT		
CONC	CONCRETE	PVT		
CONN	CONNECTION	R		
COORD	COORDINATE	R/W		
CPP	CORRUGATED PLASTIC PIPE	RCP		
CY	CUBIC YARD	RD	170	CONTOUR LINE
DEC	DECORATIVE	REGS	169	190
DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION	RELO	TC 516.4 OR 516.4	SPOT ELEVATIONS
DET	DETENTION	REQ	FF 517.00	TC 516.00
DIA	DIAMETER	RET	BC 515.55	ME 516.00
DMH	DRAINAGE MANHOLE	RET WALL		
DOM	DOMESTIC	RETO		
DOT	DEPARTMENT OF TRANSPORTATION	RG		
DP	DESIGN POINT	S		
DWL	DASHED WHITE LINE	SAN		
DYL	DOUBLE YELLOW LINE	SESC		
EG	EXISTING GRADE	SHLO		
ELEC	ELECTRIC	SMH		
ELEV	ELEVATION	STA		
EOR	ENGINEER OF RECORD	STM		
EP / EOP	EDGE OF PAVEMENT	SWL		
ES / EOS	EDGE OF SHOULDER	SWPPP		
EW	END WALL	TBA		
EX	EXISTING	TBM-X		
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY	TBD		
FES	FLARED END SECTION	TBP		
FF	FINISH / FIRST FLOOR	TBR		
FFE	FINISH / FIRST FLOOR ELEVATION	TBRR		
FG	FINISH GRADE	TBS		
FH	FIRE HYDRANT	TBV		
FM	FORCE MAIN	TC		
FO	FIBER OPTIC	Tc		
G	GRADE	TD		
GC	GENERAL CONTRACTOR	TELE		
GEO	GEOTECH/GEOTECHNICAL	TPF		
GF / GFE	GARAGE FLOOR ELEVATION (AT DOOR)	TR		
GFA	GROSS FLOOR AREA	TRANS		
GH	GRADE HIGH (WALL)	TYP		
GL	GRADE LOW (WALL)	UG		
GRT	GRATE	UP		
GT	GREASE TRAP	USGS		
GV	GATE VALVE	VERT		
HDPE	HIGH DENSITY POLYETHYLENE	VIF		
HOR	HORIZONTAL	W		
HP	HIGH POINT	W/L		
HW	HEADWALL	WM		
ICS	INLET CONTROL STRUCTURE	WQU		
INF	INFILTRATION	YD		
INT	INTERSECTION	#		
INV	INVERT	##		
LF	LINEAR FOOT	±		
LOC	LIMIT OF CLEARING	°		
LOD	LIMIT OF DISTURBANCE	DEGREES		
LOS	LINE OF SIGHT			
LOW	LIMIT OF WORK			
LP	LOW POINT			









# **MASSACHUSETTS GRADING NOTES**

(REV. 5/2024)



# OHIEER

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CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

## **REVISION**

IV	DATE	COMMENT	D CH
	10/31/2024	RESPONSE TO TOWN COMMENTS	
2	12/06/2024	TWO STORY BUILDING	
3	01/15/2025	NEW LAYOUT	
4	02/05/2025	PB COMMENTS	

# **MASSACHUSETTS ACCESSIBILITY DESIGN**

## **GUIDELINES**

## PERMIT SET

**THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENT REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.**

# **SITE DEVELOPMENT PLANS**

# BOHLER

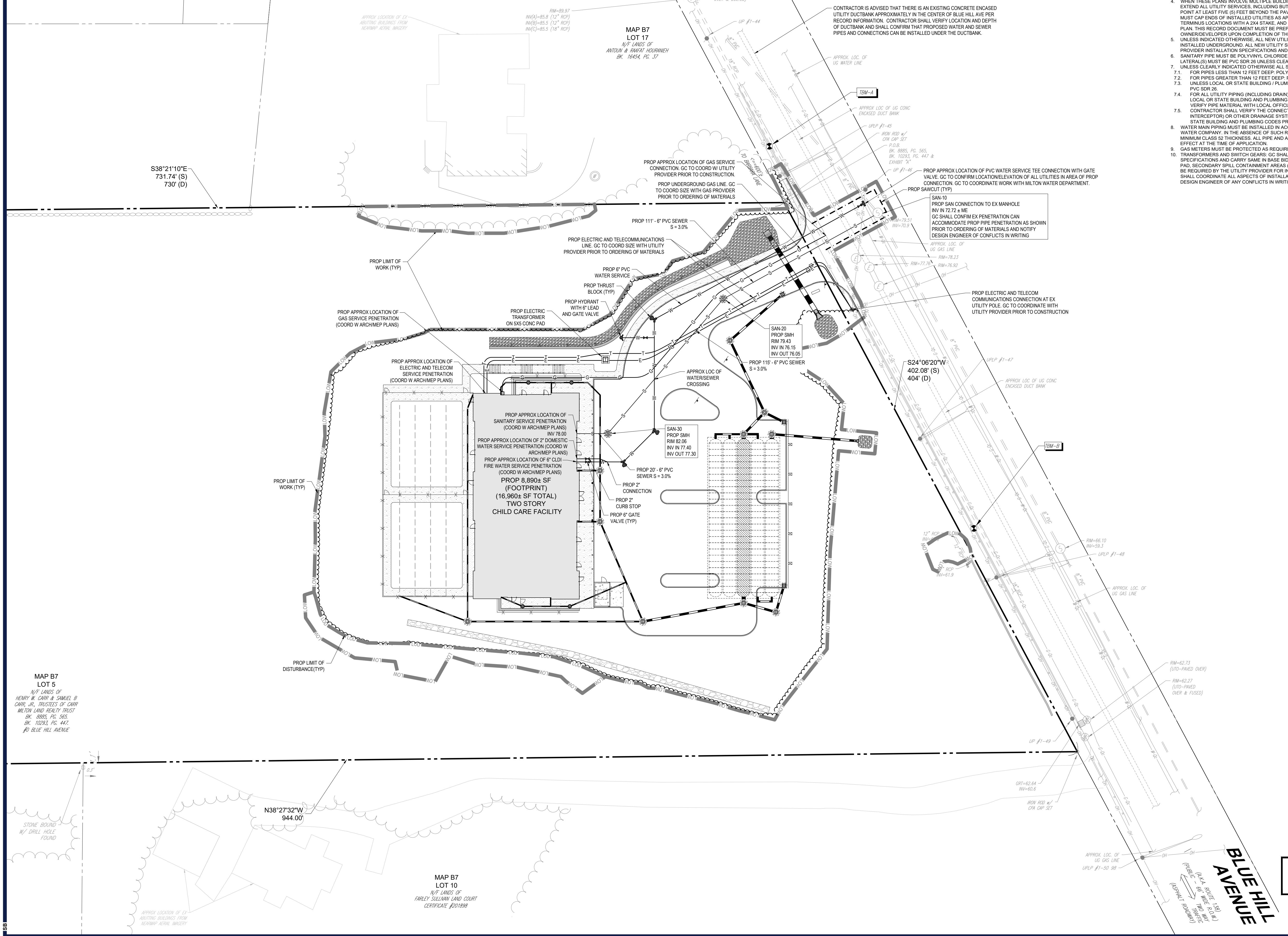
**352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772**  
Phone: (508) 480-9900

## **GRADING AND DRAINAGE PLANS**

HEET NUMBER:

REVISION 4 - 02/05/2025

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PROJECT No.: MAA240187.00-4A  
DRAWN BY: SSB  
CHECKED BY: AWP  
DATE: 08/28/2024  
CAD ID.: P-CIVL-PROP

PROJECT: **SITE DEVELOPMENT PLANS**

FOR **THE GARDNER  
TOOL**  
PROPOSED  
CHILD CARE FACILITY

MAP: B7 | LOT: 5  
0 BLUE HILL AVENUE  
NORFOLK COUNTY  
MILTON, MA

## BOHLER //

352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900

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MANUFACTURER'S #16  
CONNECTICUT PRACTICE LICENSE #30765  
RI PRACTICE LICENSE #11425

SHEET TITLE:

**UTILITY  
PLAN**

SHEET NUMBER:  
**C-501**

REVISION 4 - 02/05/2025



## MASSACHUSETTS EROSION AND SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A PERIOD OF 14 DAYS. DURING THIS PERIOD, THE AREA SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT THE END OF THE 14-DAY PERIOD, THE AREA SHALL BE REVEGETATED OR THE EROSION CONTROL CONSTRUCTION NOTES, PREVENTION PLAN (SWPP), OR IN THE ABSENCE OF A SWPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
- ALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE FOR 45 DAYS.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE SLOPES ARE STABILIZED. ONCE THE SLOPES ARE STABILIZED, THE SEDIMENT CONTROL MEASURES SHALL BE REMOVED AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- ALL DISTURBED AREAS WITHIN 100 FEET OF A STREAM OR POND SHALL BE STABILIZED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIOUS SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER 10,000 SF OR 180 LB PER ACRE.
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE-GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOD MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOD ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
  - STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
  - ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
  - WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
  - ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
  - ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

LOCATION	MULCH	MULCH RATE (1000 SF)
PROTECTED AREA	STRAW	100 POUNDS
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCLOSIR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

- A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.
- MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK AS PER MANUFACTURER'S SPECIFICATIONS; USE OF A SERRATED STRAIGHT DISC WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.
- PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1.800 CF OF ACRE OF TRIBUTARY AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES, MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.
- STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
- THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
- THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.
- EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 20 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
- BEWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
- MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGEWAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
- MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

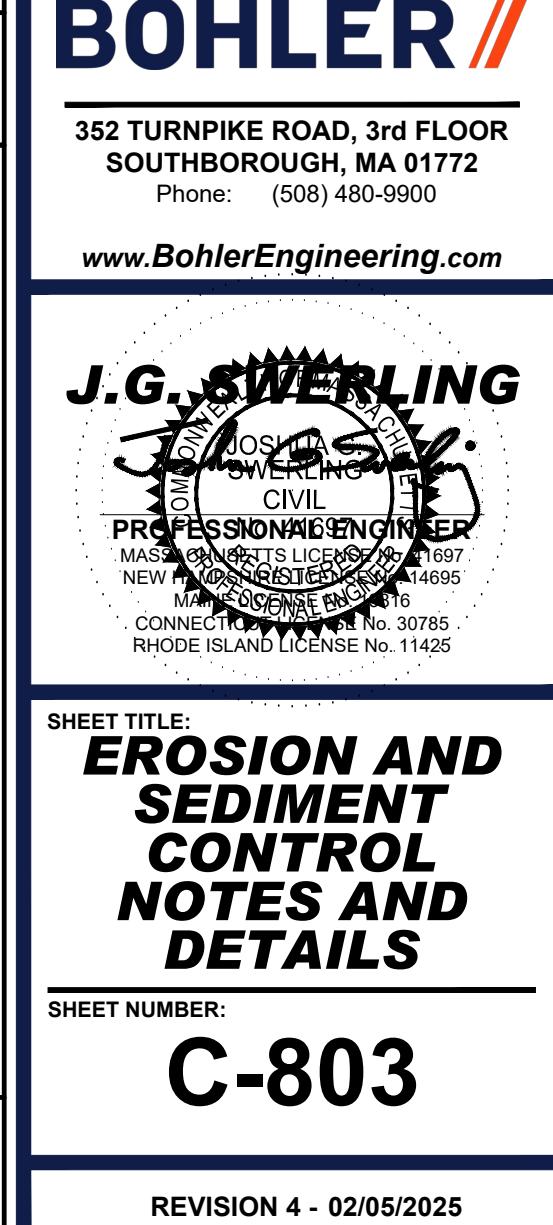
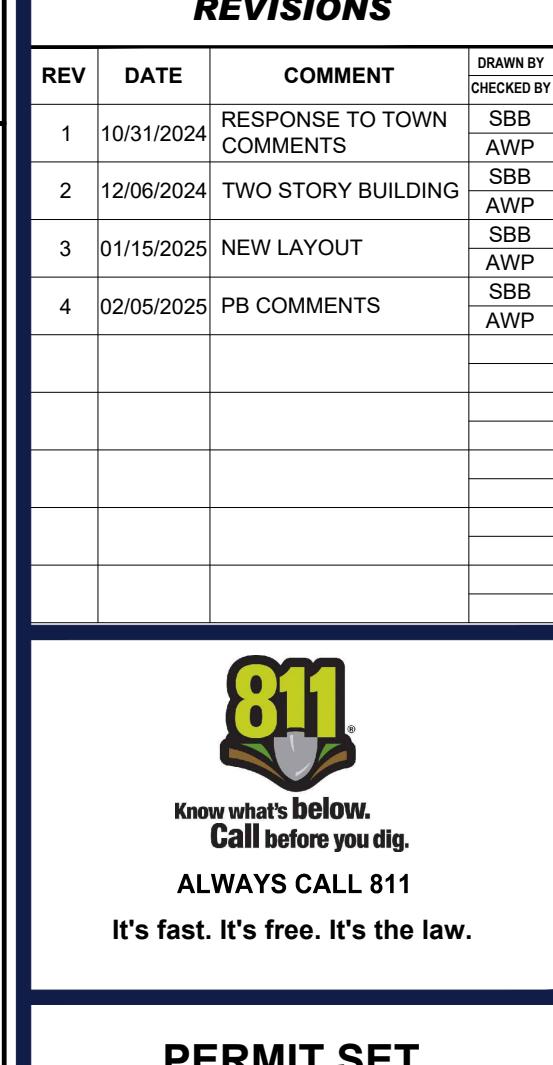
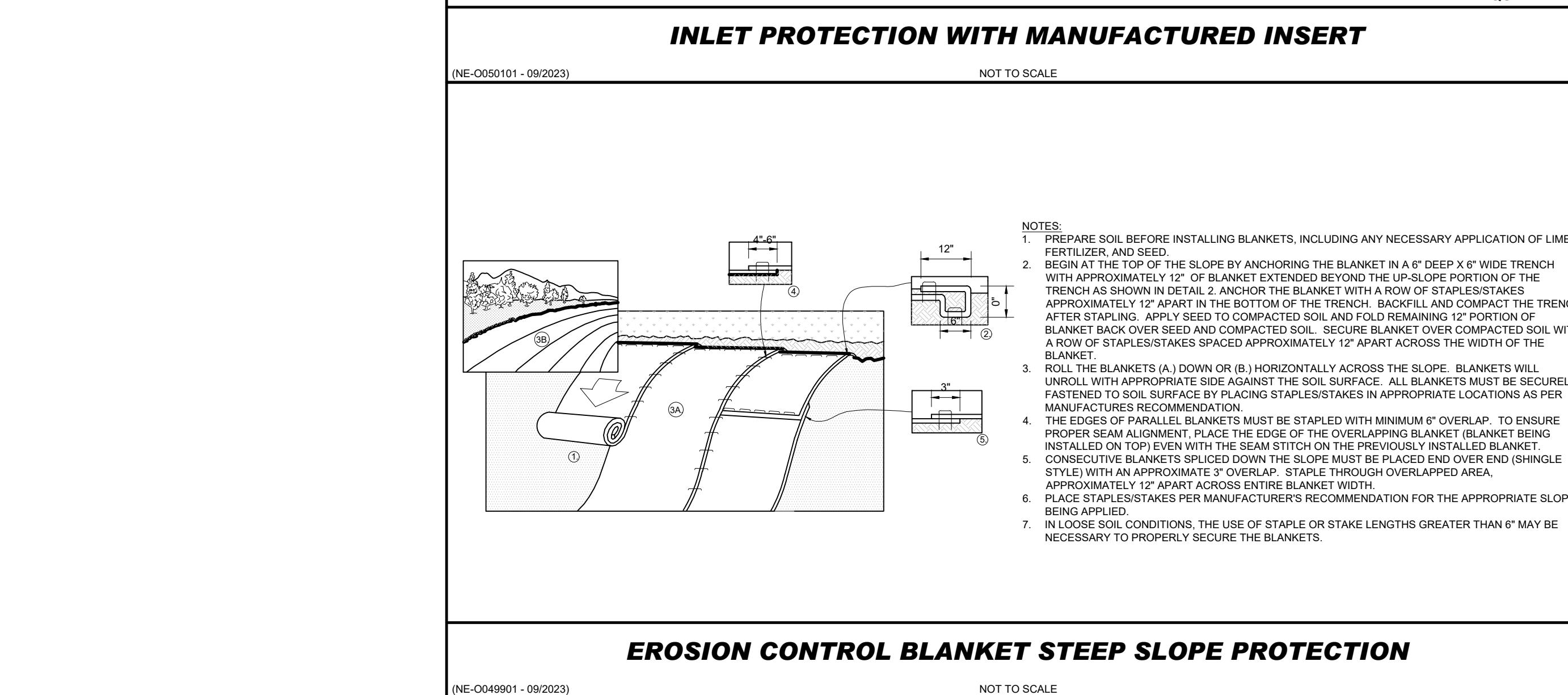
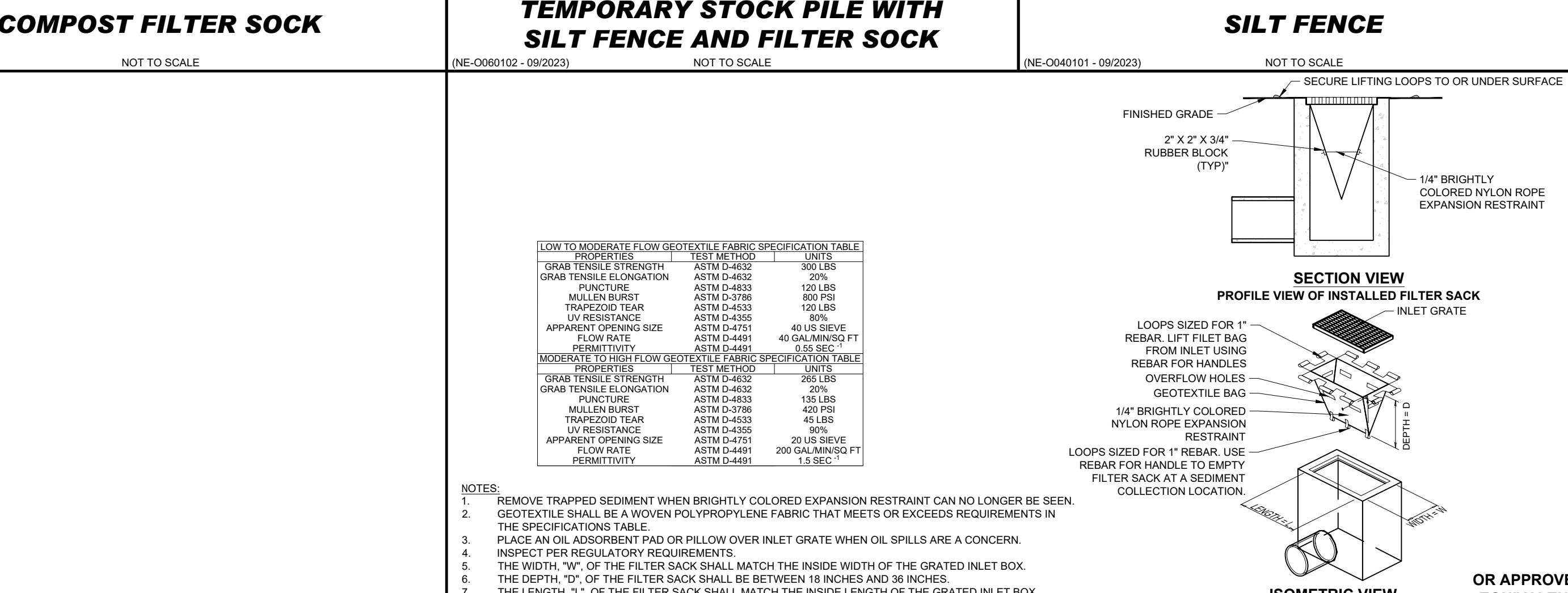
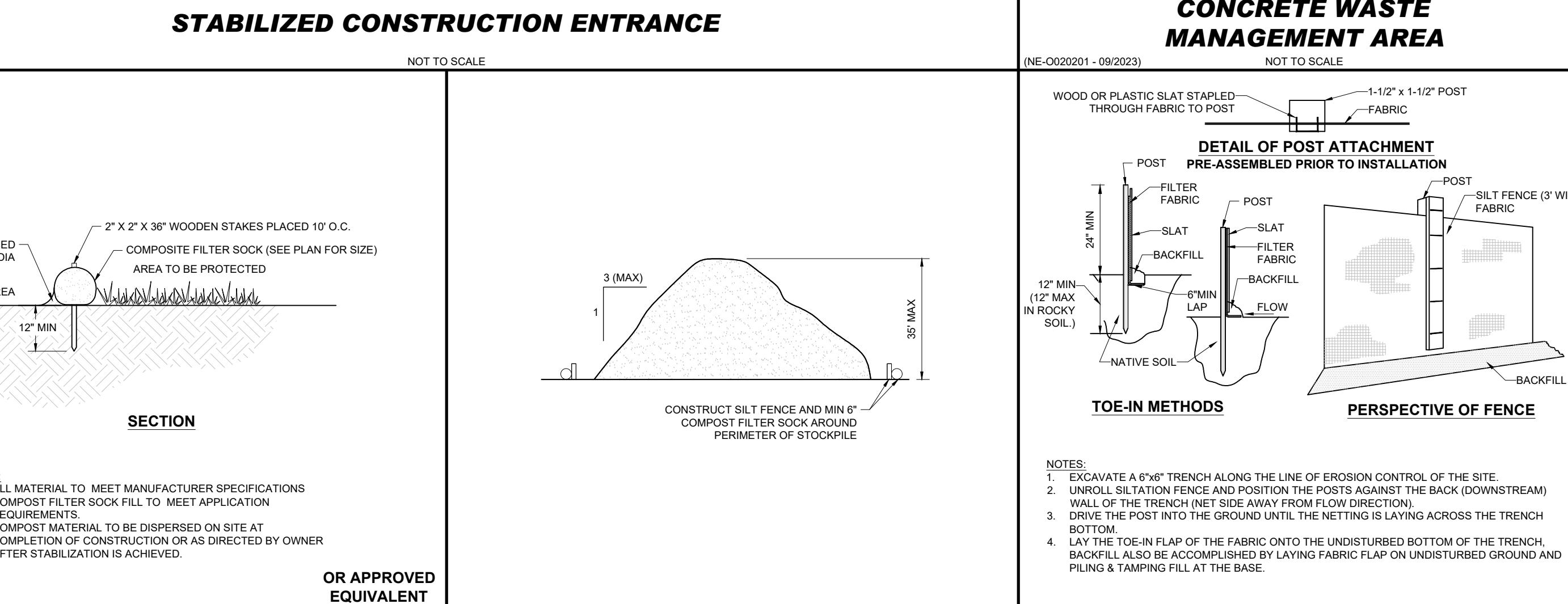
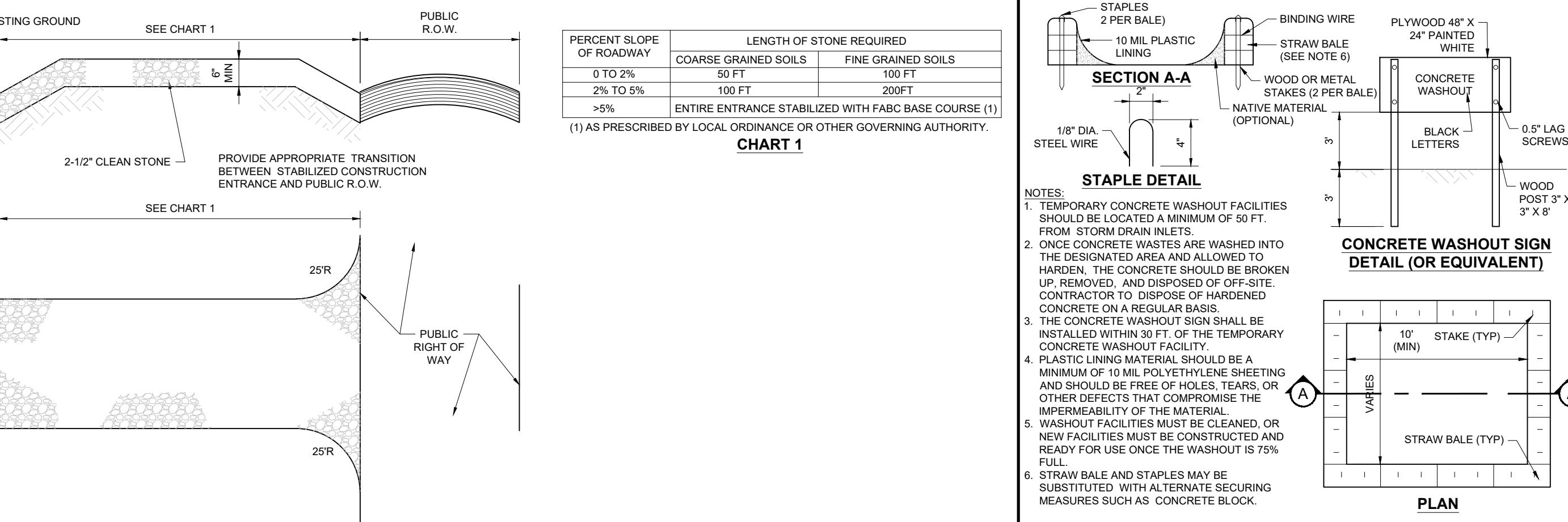
- NOVEMBER 1ST AND APRIL 15TH, LOAM SURFACE WILL NOT BE REGRADED OR REVEGETATED UNTIL THE SLOPES ARE TREATED AND IS SMOOTH. THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
  - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGEWAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
- DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

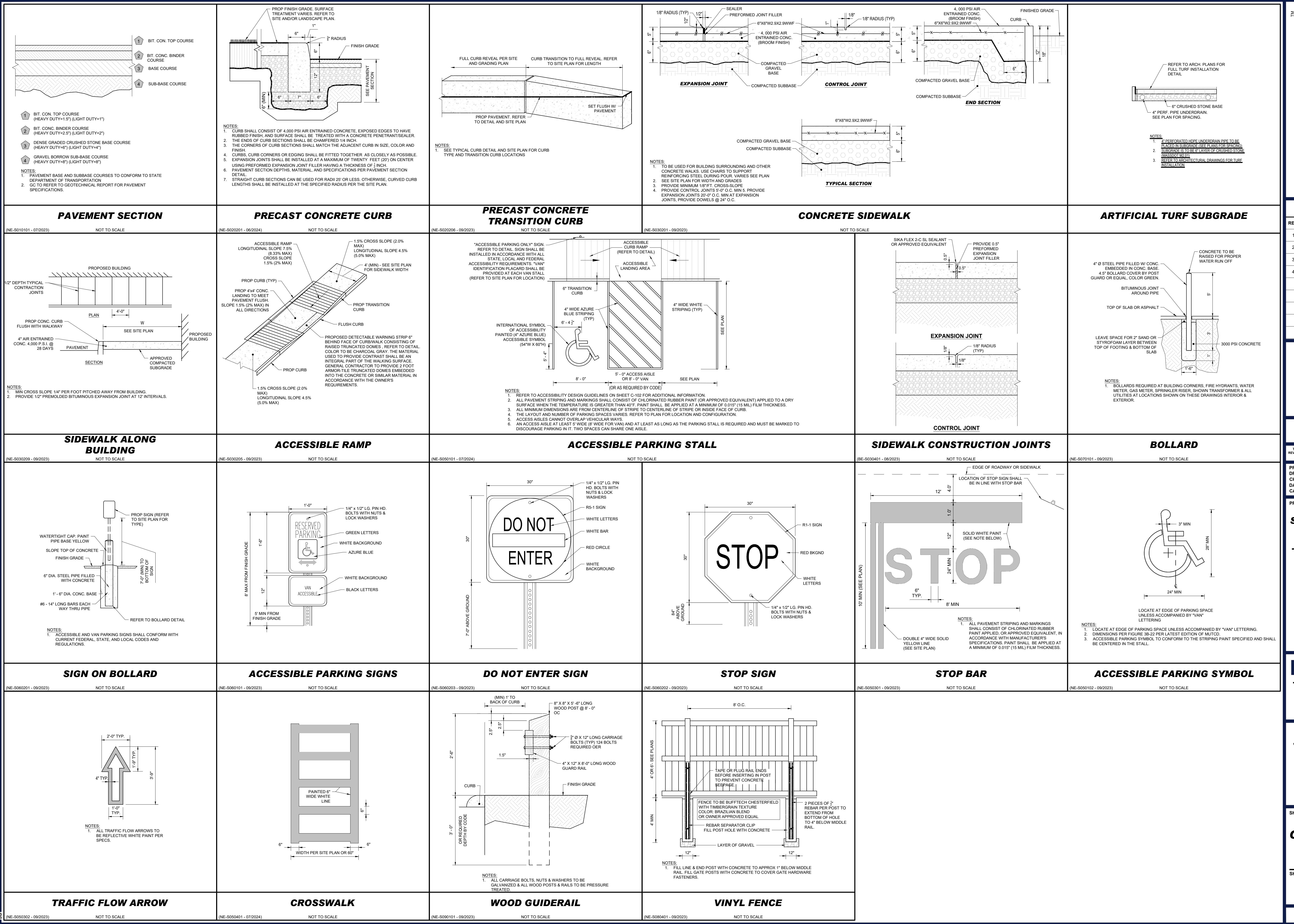
## GENERAL EROSION AND SEDIMENT CONTROL NOTES

- THE GENERAL NOTES MUST BE INCLUDED IN THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RECORD CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
- THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 1.882 ACRES.
- THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
  - STABILIZED CONSTRUCTION ENTRANCE/ EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/ EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON SITE.
  - SEDIMENT BARRIER - INSTALL SILT FENCE(S) AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
  - INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE DOWNSLOPE DISTURBANCE. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
  - INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
  - THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES FROM THE EROSION CONTROL BARRIER. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES FROM THE EROSION CONTROL BARRIER. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES FROM THE EROSION CONTROL BARRIER. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES FROM THE EROSION CONTROL BARRIER.
  - THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
  - THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE PROFESSIONAL OF RECORD SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE.
  - IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
  - TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
  - THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.
  - THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE.
  - THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLANS FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.
  - THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
  - THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL REQUIREMENTS REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
  - SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.
  - THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/ EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (AS SHOWN)
- INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
- DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
- CLEARING AND GRUBBING
- INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF FILTER PROTECTION ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED AS REQUIRED
- STABILIZE THE TEMPORARY SEDIMENT BASINS
- PAVE PARKING LOT
- LANDSCAPING PER LANDSCAPING PLAN
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER







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## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: MAA240187-00-4A  
 DRAWN BY: SBB  
 CHECKED BY: AWP  
 DATE: 08/28/2024  
 CAD ID.: P-CIVL-CNDS

## SITE DEVELOPMENT PLANS

FOR  
 THE GARDNER  
 CHILD CARE FACILITY  
 MAP: B7 | LOT: 5  
 0 BLUE HILL AVENUE  
 NORFOLK COUNTY  
 MILTON, MA

## BOHLER //

352 TURNPIKE ROAD, 3rd FLOOR  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9900

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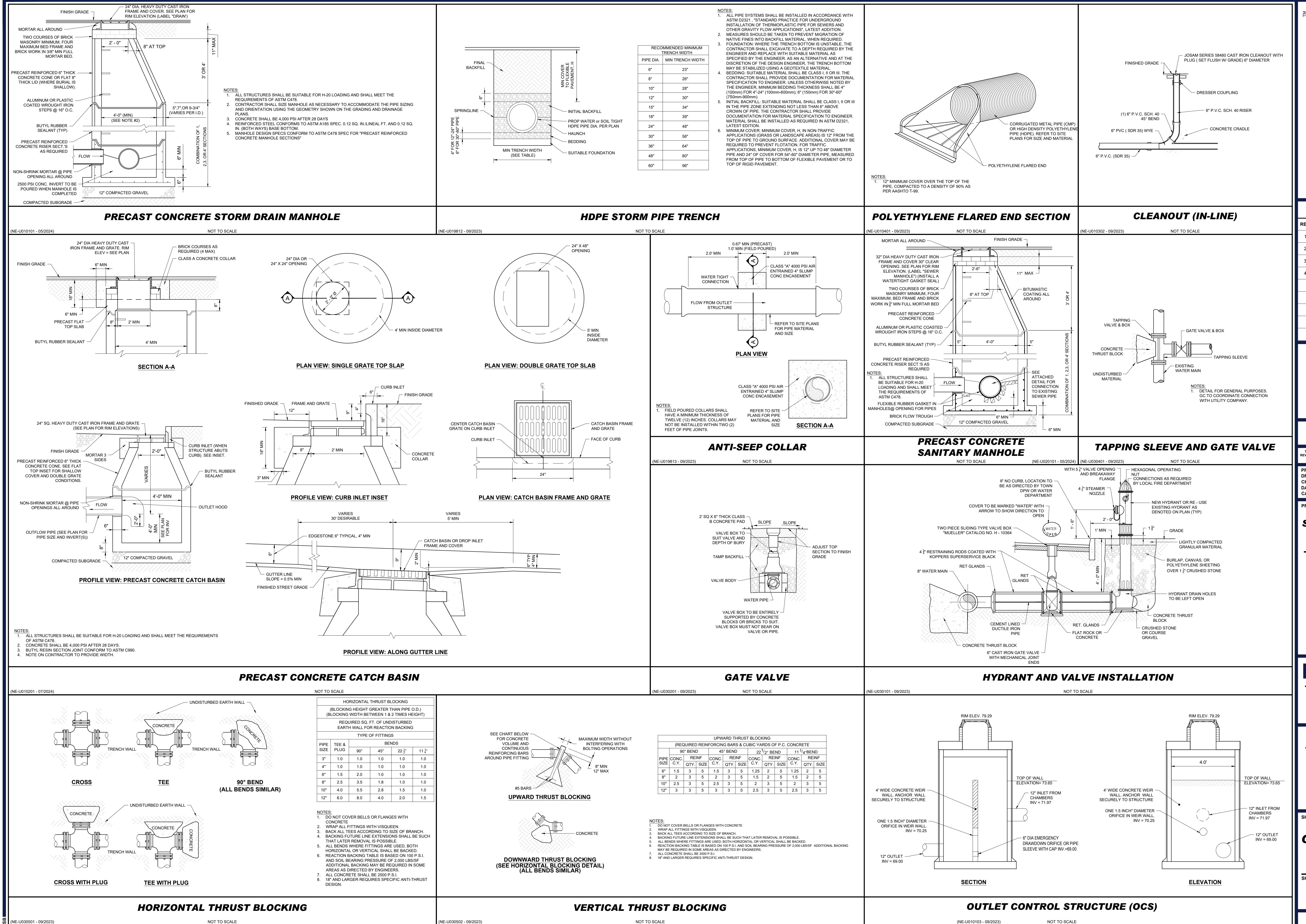
**J.G. SWERLING**  
 352 TURNPIKE ROAD, SOUTHBOROUGH, MA 01772  
 PROFESSIONAL ENGINEER  
 MASS. PRACTICE LICENSE No. 6897  
 NEW JERSEY PRACTICE LICENSE No. 095  
 CONNECTICUT PRACTICE LICENSE No. 30785  
 RHODE ISLAND LICENSE No. 11425

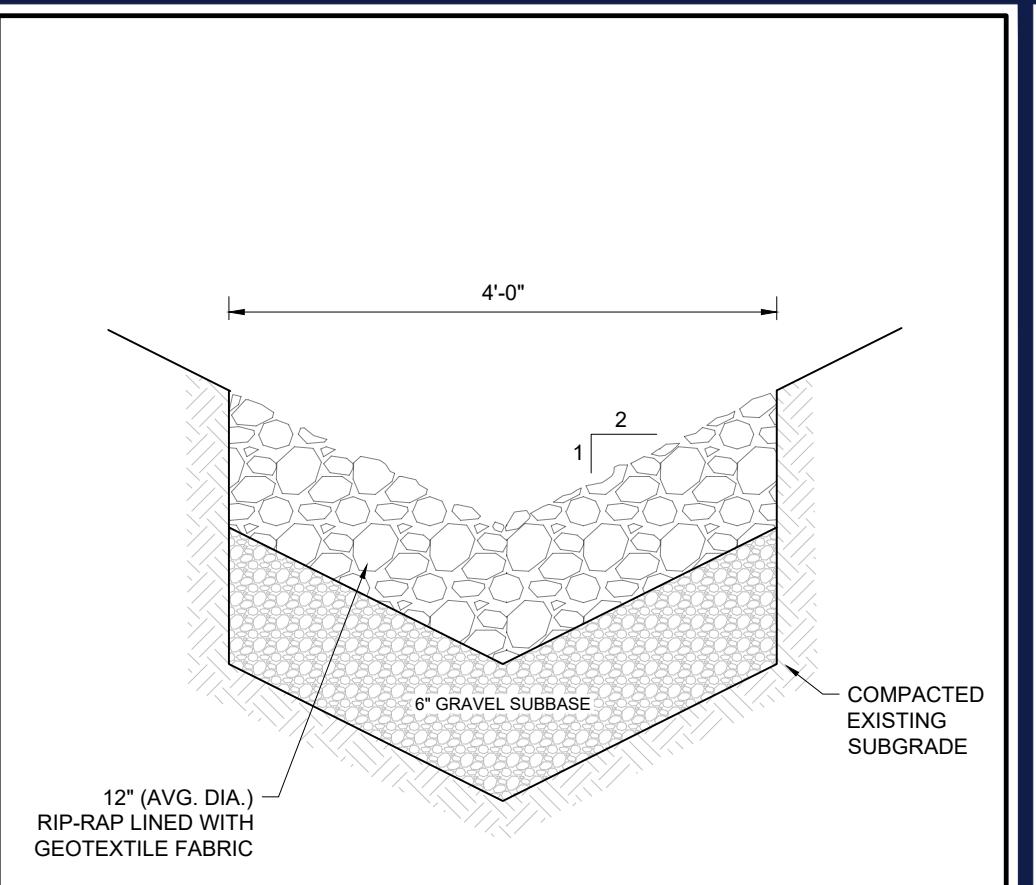
SHEET TITLE:

## CONSTRUCTION DETAILS

SHEET NUMBER:  
**C-902**

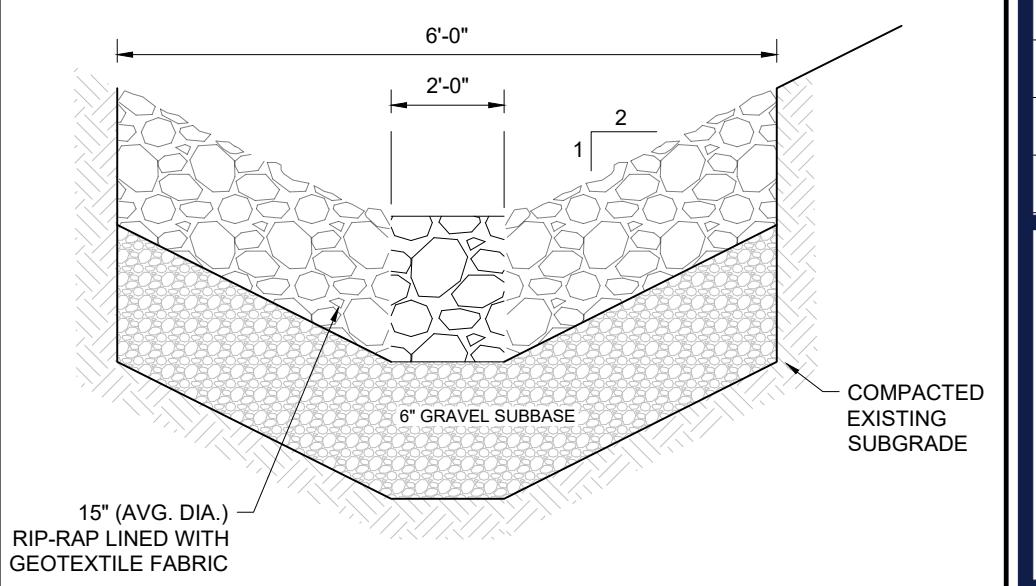
REVISION 4 - 02/05/2025





**RIP-RAP SWALE  
(WEST)**

NOT TO SCALE (NE-G020102 - 09/2023)



**RIP-RAP SWALE  
(EAST)**

NOT TO SCALE (NE-G020102 - 09/2023)



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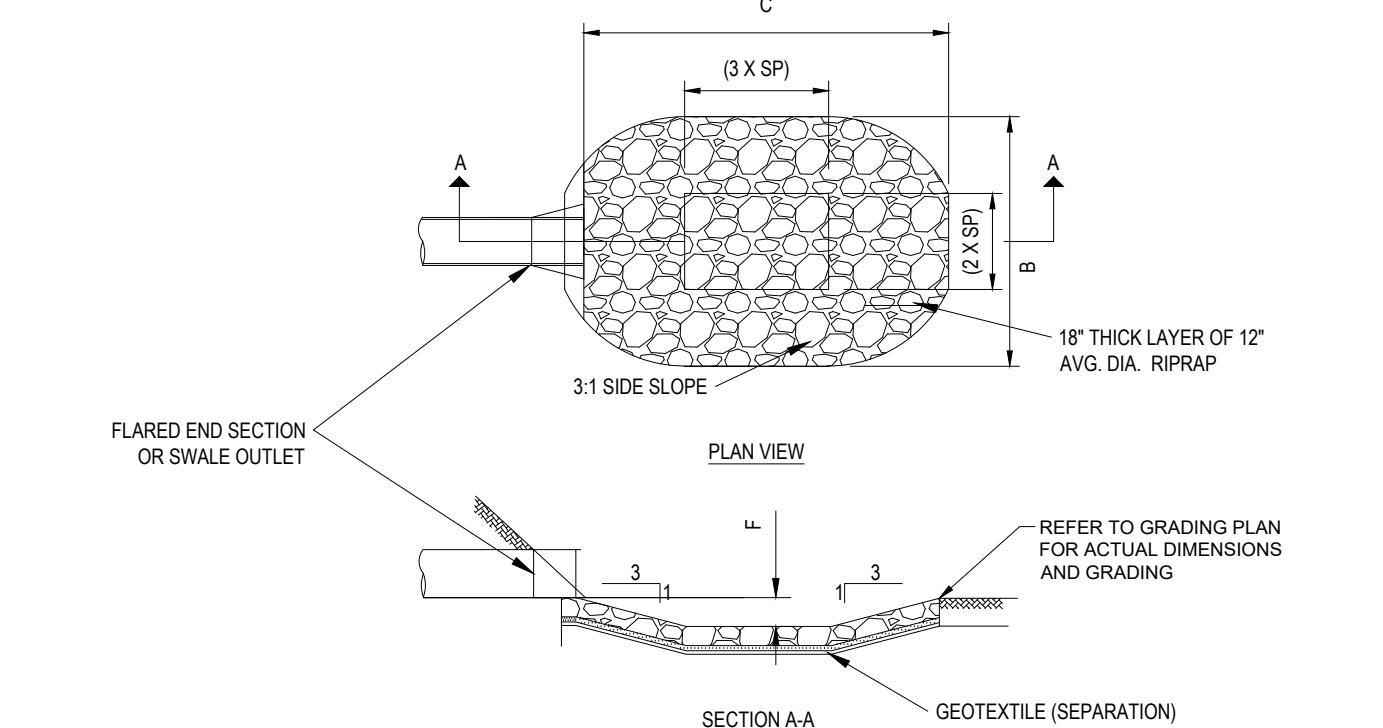
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PROJECT No.: MAA240187.00-4A  
DRAWN BY: SBB  
CHECKED BY: AWP  
DATE: 08/28/2024  
CAD I.D.: P-CIVL-CNDS

PROJECT:

**SITE DEVELOPMENT PLANS**

FOR  
THE GARDNER  
TOOL  
PROPOSED  
CHILD CARE FACILITY  
MAP: B7 | LOT: 5  
0 BLUE HILL AVENUE  
NORFOLK COUNTY  
MILTON, MA



**RIPRAP SCOUR HOLE**

NOT TO SCALE

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SOUTHBOROUGH, MA 01772  
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**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-903**

REVISION 4 - 02/05/2025





## MASSACHUSETTS LANDSCAPE SPECIFICATION

1. SCOPE OF WORK  
a) THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION, PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.

2. MATERIALS  
a) GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.  
b) TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.  
c) LAWN  
i) ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS PROVIDED ON THE LANDSCAPE PLAN.  
ii) LAWN SEED MIXTURE SHALL BE FRESH, CLEAN NEW CROP SEED.  
iii) SOD SHALL BE FULLY ROOTED, WEED AND DISEASE FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1, SHALL BE PEGGED TO HOLD SOD IN PLACE.  
iv) MULCH - ALL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES / DETAILS.  
d) FERTILIZER  
i) FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT / ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.  
ii) FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY.  
e) PLANT MATERIAL  
i) ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).  
ii) IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.  
iii) PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.  
iv) TREES WITH A BARK OR SCALD, SUN SCALD, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/4", WHICH HAVE NOT BEEN COMPLETELY CALLUSED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BARK BRANCHES.  
v) ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH; WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.  
vi) CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER. IF THE CALIPER IS SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.  
vii) SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.  
viii) TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.  
3. GENERAL WORK PROCEDURES  
a) CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.  
b) WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.  
4. SITE PREPARATIONS  
a) BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY SHOVEL. ALL EXPOSED SOIL SHALL BE TILLED AND SMOOTHED.  
b) ALL EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE REMAINDER OF THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.  
c) CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.  
5. TREE PROTECTION  
a) CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.  
b) ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.  
c) TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.  
d) LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.  
13. CLEANUP  
a) UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.  
b) THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.  
14. MAINTENANCE  
a) A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.  
b) TO AVOID DAMAGE TO THE FENCE, IT IS RECOMMENDED THAT THE FENCE BE REMOVED DURING THE TREE PROTECTION PERIOD. THE FENCE CAN BE REINSTATED AS SOON AS THE TREE PROTECTION PERIOD IS OVER.  
c) WHEN THE TREE PROTECTION FENCE HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY. PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION, THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.  
d) AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.  
6. SOIL MODIFICATIONS  
a) CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.  
b) LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETERIMENTAL TO THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.  
c) THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.  
d) TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE SOIL. USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO 100% AND FREE OF PIECE OF IDENTIFIABLE WOOD OR WOOD STRUCTURE. ADD MATERIAL WITH A PH HIGHER THAN 7.5.  
e) TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.  
d) MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.  
7. FINISHED GRADING  
a) UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF A SOIL BASE. THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.  
b) LANDSCAPE CONTRACTOR SHALL VERIFY THAT TOPSOIL FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE SHALL MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").  
c) ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRupt CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.  
d) ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.  
8. TOPSOIL  
a) CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CONTRACTOR. IN ALL PLANTING AREAS, TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED PLANTING THICKNESS.  
b) ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.  
c) CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.  
d) ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE REMOVED. ACCORDING TO THE GENERAL WORK PROCEDURES SECTION ABOVE, THE FOLLOWING SHALL BE TILLED INTO THE SOIL TO A DEPTH OF SIX INCHES (6") IN ALL DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY (SEE SPECIFICATION 6.4).  
d) 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER  
e) THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.  
9. PLANTING  
a) INSOFA THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.  
b) PLANTS SHALL BE PLANTED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.  
c) ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.  
d) ALL PLANT CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.  
e) PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING

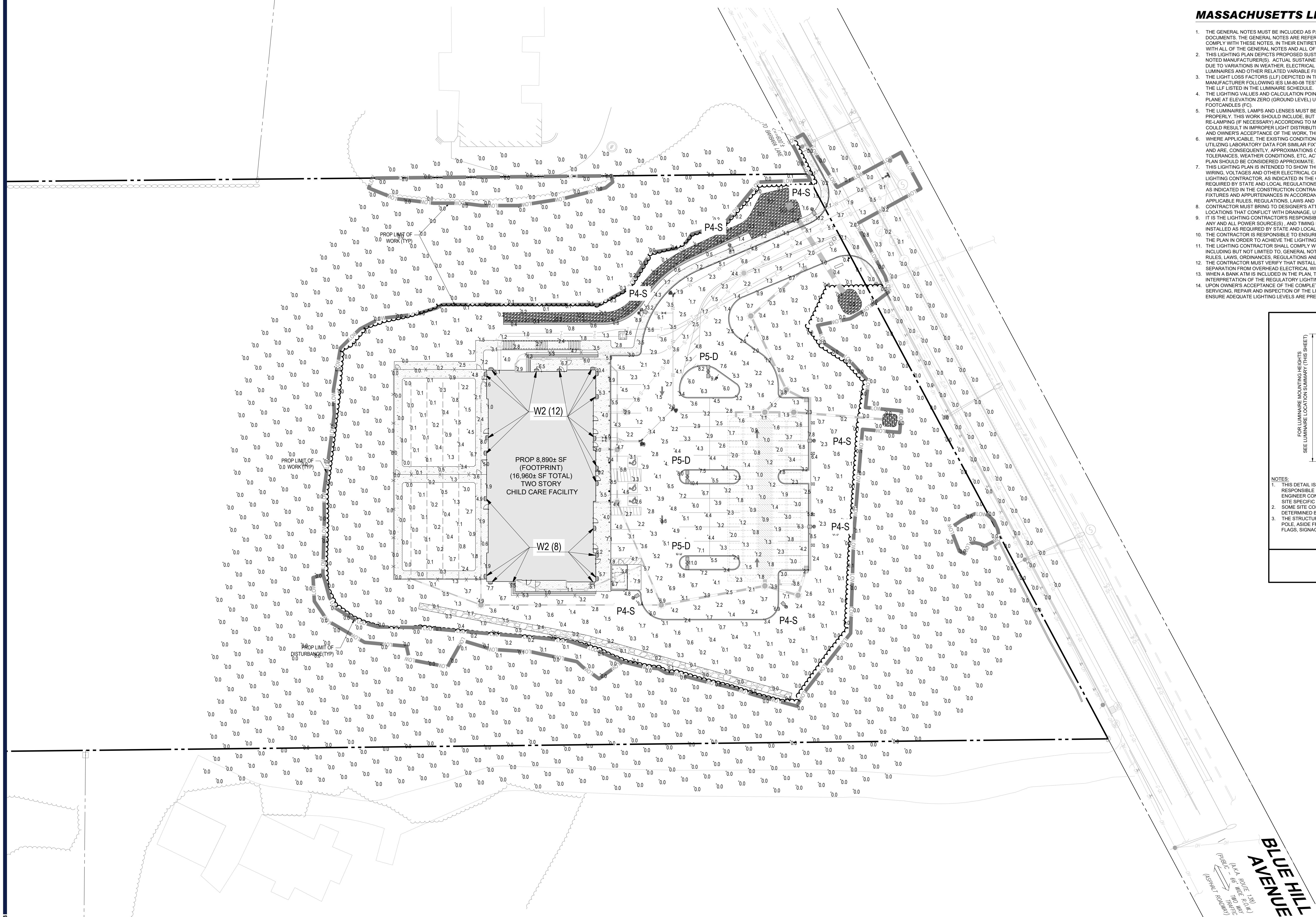
SEASONS:  
a) PLANTS: MARCH 15 TO DECEMBER 15  
b) LAWN: MARCH 15 TO JUNE 15 OR SEPT. 1 TO DECEMBER 1  
c) PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON BY THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.  
g) FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:  
ACER RUBRUM PLATANUS X ACERIFOLIA  
BETULA VARIETIES POPULUS VARIETIES  
CARPINUS VARIETIES PRUNUS VARIETIES  
CRATAEGUS VARIETIES PYRUS VARIETIES  
KOELREUTERIA QUERCUS VARIETIES  
LIQUIDAMBAR STYRACIFLUA TILA TOMENTOSA  
LIRIODENDRON TULIPIFERA ZELKOVA VARIETIES  
h) PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOILS DUG THOROUGHLY:  
i) 1 PART PEAT MOSS  
ii) 1 PART COMPOSTED COW MANURE BY VOLUME  
iii) 3 PARTS TOPSOIL BY VOLUME  
iv) 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:  
v) 2 TABLETS PER 1 GALLON PLANT  
vi) 3 TABLETS PER 5 GALLON PLANT  
vii) 4 TABLETS PER 15 GALLON PLANT  
viii) LARGER PLANTS: 2 TABLETS PER 1/2 CALIPER OF TRUNK  
ix) FILL PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.  
j) ALL PLANTS SHALL BE PLANTED SO THAT THE POINT OF THE ROOT FLARE BEGINS IS SET IN THE TOP OF THE ROOT BALL. THE POINT AT WHICH THE ROOT FLARE BEGINS IS SET IN THE TOP OF THE ROOT BALL.  
k) ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.  
l) GROUND COVER AREAS SHALL RECEIVE A 1" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PRE-EMERGENT CHEMICAL AS PER MANUFACTURER'S RECOMMENDATION.  
m) NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING PLANTS.  
n) ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED AREA OR SUBGRADE.  
o) ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.  
10. TRANSPLANTING (WHEN REQUIRED)  
a) ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.  
b) IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.  
c) PLANTS SHALL NOT BE DUG FOR TRANPLANTING BETWEEN APRIL 10 AND JUNE 30.  
d) UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.  
e) TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.  
f) TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.  
11. WATERING  
a) WATERING OF LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.  
b) SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.  
c) IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM DOES NOT ELIMINATE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.  
12. GUARANTEE  
a) THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE VALUE OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.  
b) ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.  
c) TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.  
d) LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING REGARDING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.  
13. CLEANUP  
a) UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.  
b) THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.  
14. MAINTENANCE  
a) A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MANICURED TO THE APPROVAL OF THE OWNER/OPERATOR.  
b) TO AVOID DAMAGE TO THE FENCE, IT IS RECOMMENDED THAT THE FENCE BE REMOVED DURING THE TREE PROTECTION PERIOD. THE FENCE CAN BE REINSTATED AS SOON AS THE TREE PROTECTION PERIOD IS OVER.  
c) WHEN THE TREE PROTECTION FENCE HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPROVING AGENCY. PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION, THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.  
d) AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.  
6. SOIL MODIFICATIONS  
a) CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.  
b) LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETERIMENTAL TO THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.  
c) THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.  
d) TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE SOIL. USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO 100% AND FREE OF PIECE OF IDENTIFIABLE WOOD OR WOOD STRUCTURE. ADD MATERIAL WITH A PH HIGHER THAN 7.5.  
e) TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY OR SILT) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.  
d) MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.  
7. FINISHED GRADING  
a) UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF A SOIL BASE. THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.  
b) LANDSCAPE CONTRACTOR SHALL VERIFY THAT TOPSOIL FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE SHALL MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").  
c) ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRupt CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.  
d) ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.  
8. TOPSOIL  
a) CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CONTRACTOR. IN ALL PLANTING AREAS, TOPSOIL SHALL BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED PLANTING THICKNESS.  
b) ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.  
c) CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.  
d) ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE REMOVED. ACCORDING TO THE GENERAL WORK PROCEDURES SECTION ABOVE, THE FOLLOWING SHALL BE TILLED INTO THE SOIL TO A DEPTH OF SIX INCHES (6") IN ALL DIRECTIONS (QUANTITIES BASED ON A 1,000 SQUARE FOOT AREA - FOR BID PURPOSES ONLY (SEE SPECIFICATION 6.4).  
d) 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER  
e) THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.  
9. PLANTING  
a) INSOFA THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.  
b) PLANTS SHALL BE PLANTED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.  
c) ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.  
d) ALL PLANT CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.  
e) PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PL



LUMINAIRE SCHEDULE						
LABEL	QTY	ARRANGEMENT	MOUNTING HEIGHT	LUM. LUMENS	LLF	DESCRIPTION
W2	20	SINGLE	8'-0" AFF**	2876	0.900	COOPER INUIUE EPIC MODERN MEDIUM LED WALL-MOUNTED DECORATIVE LUMINAIRE, TYPE 4, ZERO UP-LIGHT (EMM-E01-LED-E1-T4-SO-FL-BK)
P4-S	7	SINGLE	12'-0" AFG	6983	0.900	SIGNIFY HADCO URBAN WESTBROOK LED PENDANT LUMINAIRE, WITH HOUSE-SIDE SHIELD, ZERO UP-LIGHT (CXF15-32-G3-T-A-4-730x7-x-xx)
P5-D	3	BACK-BACK	12'-0" AFG	9421	0.900	SIGNIFY HADCO URBAN WESTBROOK LED PENDANT LUMINAIRE, ZERO UP-LIGHT (CXF15-48-G3-T-A-5-730x5-x-xx)

\*REFER TO ARCHITECTURAL PLANS FOR FINAL MOUNTING HEIGHTS AND LOCATIONS

CALCULATION SUMMARY						
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN
ALL POINTS	ILLUMINANCE	FC	0.82	13.2	0.0	N.A.
EASTERN LOT LINE	ILLUMINANCE	FC	0.01	0.1	0.0	N.A.
SOUTHERN LOT LINE	ILLUMINANCE	FC	0.01	0.1	0.0	N.A.
WESTERN LOT LINE	ILLUMINANCE	FC	0.00	0.0	0.0	N.A.
ENTRANCE DRIVE	ILLUMINANCE	FC	2.88	7.6	0.7	4.11
PARKING LOT	ILLUMINANCE	FC	3.51	9.5	0.8	4.39
						11.88



THIS PLAN TO BE UTILIZED  
FOR LIGHTING PURPOSES  
ONLY

30 15 7.5 0 30  
SCALE: 1" = 30'

REVISION 4 - 02/05/2025

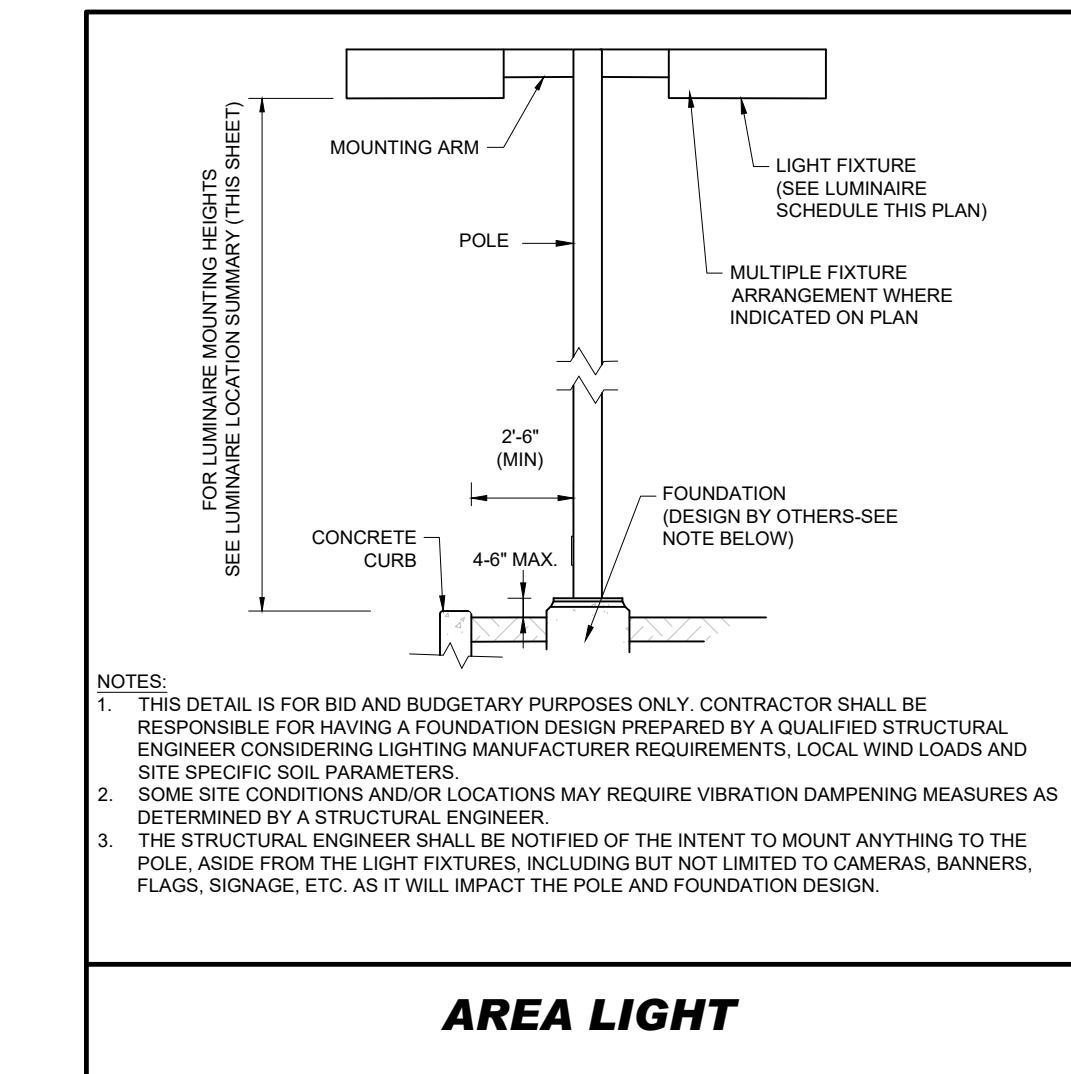
## TOWN OF MILTON LIGHTING REQUIREMENTS

SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
275-11.8	<p>J. LIGHTING</p> <p>OFF-SITE LIGHT OVERSPILL FROM ANY LIGHTING OF PARKING AREAS SHALL BE CONTROLLED THROUGH THE SELECTION OF LIGHTING ITS POSITIONING AND ITS MOUNTING HEIGHT SO AS NOT UNNECESSARILY TO ADD TO ILLUMINATION LEVELS ON ANY ADJACENT LOT NOT IN COMMON OWNERSHIP. LIGHT STANDARDS SHALL NOT EXCEED 18 FEET IN HEIGHT. OFF-SITE LIGHT OVERSPILL FROM LIGHTING OF PARKING AREAS SHALL NOT ADD MORE THAN ONE EENTH FOOT CANDLE INCREASE IN ILLUMINATION LEVELS AND BECAUSE OF THE POSITION AND OWNERSHIP IN A RESIDENTIAL ZONE, OFF-SITE LIGHT OVERSPILL ONTO ANY ADJACENT LOT NOT IN COMMON OWNERSHIP IN A RESIDENTIAL ZONE FROM THE HEADLIGHTS OF VEHICLES ENTERING, TRAVERSING, OR EXITING A PARKING AREA SHALL BE MINIMIZED. INSIDE REASONABLE POSITION THROUGH THE APPROPRIATE PLACEMENT OF CURB, DRIVERS OR SIDE GROWING (INCLUDING USE OF VEGETATED BERM) AND/OR BY PLANTING WOODEN FENCES (OR THEIR VISUAL EQUIVALENT) MAY BE USED UNDER CIRCUMSTANCES WHERE OTHER MEANS OF CONTROLLING OFF-SITE LIGHT OVERSPILL ARE NOT PRACTICAL.</p>	PROVIDED

## MASSACHUSETTS LIGHTING NOTES

(REV. 6/2023)

1. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH THE GENERAL NOTES AND ALL OF THE PLANS AND SPECIFIC NOTES.
2. THE LIGHTING CONTRACTOR SHALL USE SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRE POSITIONING.
3. THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-08 TESTING. THE LIGHT LEVELS DEPICTED ON THIS PLAN ARE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAIRE SCHEDULE.
4. THE LUMINAIRE SCHEDULE ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES (FC).
5. THE LIGHTING FIXTURES AND LENSES MUST BE REGULARLY INSPECTED/MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND RE-LAMPING (IF NECESSARY) ACCORDING TO MANUFACTURED RECOMMENDATIONS. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN. UPON COMPLETION AND APPROVAL OF THE DESIGN, THE CONTRACTOR SHALL MAINTAIN THE LIGHTING FIXTURES AND LENSES.
6. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES. UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE CORRECTLY APPROXIMATED ONLY, DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCE, WEATHER CONDITIONS, ETC., ACTUAL FIELD MEASUREMENTS MAY VARY FROM THE APPROXIMATE LIGHT LEVELS DEPICTED ON THIS PLAN. THIS SHOULD BE CONSIDERED APPROXIMATE.
7. THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPES OF LUMINAIRES, ONE, POWER SYSTEM, CORDS, WIRES, VOLTAGE, AND OTHER EQUIPMENT. THESE COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MECHANICAL, OR LIGHTING CONTRACTOR AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND SURROUNDING EQUIPMENT IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
8. CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION ANY CONCERN WITH THE CONCEALMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS, AND ANY OTHER CONCERN WITH THE CONCEALMENT OF CONSTRUCTION, OR OTHER STRUCTURES.
9. IT IS THE LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING ANY AND ALL POWER SOURCES, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS.
10. THE CONTRACTOR MUST NOT ATTEMPT TO MOUNT ANYTHING TO THE POLE ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.
11. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, CONTRACTOR REQUIREMENTS, CONTRACTOR REQUIREMENTS, AND THE LIKE.
12. THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
13. WHERE APPLICABLE, THE LIGHTING DESIGN DEPENDS ON BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
14. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.



## AREA LIGHT

NOT TO SCALE (NE-100001 - 09/2023)



ALWAYS CALL 811  
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## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: MAA240187.00-4A  
DRAWN BY: SBB  
CHECKED BY: AWP  
DATE: 08/28/2024  
CAD ID: P-CIVL-LGHT

## SITE DEVELOPMENT PLANS

FOR THE GARDNER PROPOSED CHILD CARE FACILITY  
MAP: B7 | LOT: 5  
0 BLUE HILL AVENUE  
NORFOLK COUNTY  
MILTON, MA

## BOHLER //

352 TURNPIKE ROAD, 3rd FLOOR  
SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900

[www.BohlerEngineering.com](http://www.BohlerEngineering.com)



SHEET TITLE:

## LIGHTING PLAN

SHEET NUMBER:

L-201

REVISION 4 - 02/05/2025





Hadco Westbrooke pendant luminaires offer a simple and modern look but still traditional, providing style and performance to work in several urban applications including residential streets, city streets, campuses, parking lots and retail centers. These pendants are now available with comfort optics, providing a low glare solution for pedestrian applications.

Ordering guide									
Model	LEDs	Generation	Mount	Finish	Distribution	Color Temp.	Voltage	Drive current	Example: CXF14-32-G3-A-2-730-A-3-N-SP1-N
		G3	T	A	x	730	x	x	
CXF14 Westbrooke	32 32 LEDs	G3 Gen 3	T Top	A Black	2 Type 2	730 Warm 3000K	A 120-277VAC	3 350mA	
CXF14 Westbrooke	48 48 LEDs			B White	2H Type 2 w/HSS	740 Neutral 4000K	B 347-480VAC	5 530mA	
Receptacle 7 pin	64 64 LEDs			C Verde Green	3H Type 3 w/HSS			7 700mA	
Receptacle 7 pin	80 80 LEDs			D Bronze	3W Type 3 Wide				
Receptacle 7 pin				E Silver Gray	3WH Type 3 Wide w/HSS				
Receptacle 7 pin				F Dark Green	4 Type 4				
Receptacle 7 pin				G Type 5					

Ordering guide (continued)		
Driver Options	Surge Suppression	Spinning
DA 4 Hrs 25% Reduction	SP1 Parallel 10kV standard	F Fluted spinning
DB 4 Hrs 50% Reduction	SP2 Parallel 20kV	N No options
DC 4 Hrs 75% Reduction		
DD 8 Hrs 25% Reduction		
DE 8 Hrs 50% Reduction		
DF 8 Hrs 75% Reduction		
DG 8 Hrs 25% Reduction		
DH 8 Hrs 50% Reduction		
DJ DALI Compatible		
DALI Compatible with DALI		
S FAW5 Fixed adjustable wattage selector		
SRD <sup>®</sup> Sensor ready driver, standard configuration		
SRD <sup>®</sup> Sensor ready driver, alternate configuration		
N No dimming		

Footnotes  
1. 32LED at 350mA and 530mA are not compatible with 347-480V  
2. 347-480V not compatible with optional dimming or optional programming.

CXF14-15-Westbrooke 07/22 page 1 of 6

#### DESCRIPTION

The EPIC Collection delivers custom luminaire flexibility with high quality, yet availability expectations of standard specification grade product. The EPIC Collection can be dressed to suit any application. Recognizing environmental and legislative trends, the EPIC Collection delivers world class LED optical and performance solutions to the decorative luminaire marketplace.

#### Invue

Catalog #	Project	Type

Prepared by

#### SPECIFICATION FEATURES

**Construction**  
TOP: Cast aluminum top housing attaches to cast aluminum mounting hub with four stainless steel fasteners. One-piece silicone gasket between mounting hub and top casting seals out moisture and dust. Mounting hub is machined to accept mounting arm. Mounting arm is compatible with the Epic luminaire. MIDSECTION: Components include silicone gaskets seal lens to top housing and mounting hub. The mid section features cast aluminum construction and stainless steel fasteners. SHADES: Heavy gauge pressure die cast aluminum offers superior surface finish and consistency in form. DOORFRAME: Die cast aluminum doorframe seal to underside of shade with a thick wall continuous silicone gasket. Mounting hub ships attached to mounting arm.

**Electrical**  
LED drivers mount to die-cast aluminum base housing for optimal heat sinking, operation efficiency, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V, 480V, and 500V. Heavy gauge aluminum housing is greater than 0.9 harmonic distortion, less than 0.5% distortion, and less than 40°C ambient temperature. All fixtures are shipped standard with 10W/100A current monitor and optional 1000mA dimming driver. Occupancy sensor and dimming options available.

**Optics**  
Choice of twelve patented, high-efficiency AccuLED Optic<sup>™</sup> technology manufactured from injection-molded acrylic. Optics are precision die-cut to match the optics, maximizing efficiency and application spacing. AccuLED Optic technology, creates consistent distributions with the standard optics to meet customized applications.

**Finish**  
Housing is finished in high-voltage super 20°C polyester powder coat paint. 2.5 mil nominal thickness for superior protection against

fade and wear. LightBAR<sup>™</sup> cover plates are standard white and may be specified to match finish of luminaire. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom colors are also available. Refer to the Architectural Colors brochure for a complete selection. Options to meet Buy American Act requirements

#### Warranty

Five-year warranty.



#### ECM/EMM

#### EPIC MEDIUM LED

1 - 4 LightBARS  
Solid State LED

#### DECORATIVE AREA LUMINAIRE



#### CERTIFICATION DATA

UL/UL Listed

Designers' Consortium<sup>®</sup> Qualified\*

IP66 LightBar

LM79 / LM80 Compliant

2G Vibration Tested

IEC60068-2-29

#### ENERGY DATA

Electron LED Driver

3.0 Power Factor

>20% Total Harmonic Distortion

120-277V 50/60Hz, 347V/480V, 500V

>40% Minimum Temperature Rating

>40°C Ambient Temperature Rating

#### EPA

Effective Projected Area (Sq. Ft.) 0.94

#### SHIPPING DATA

Approximate Net Weight:

46 lbs. (20.9 kg)

TD60029EN

December 8, 2021 2:28 PM

#### COOPER

Lighting Solutions

\*www.designlights.org

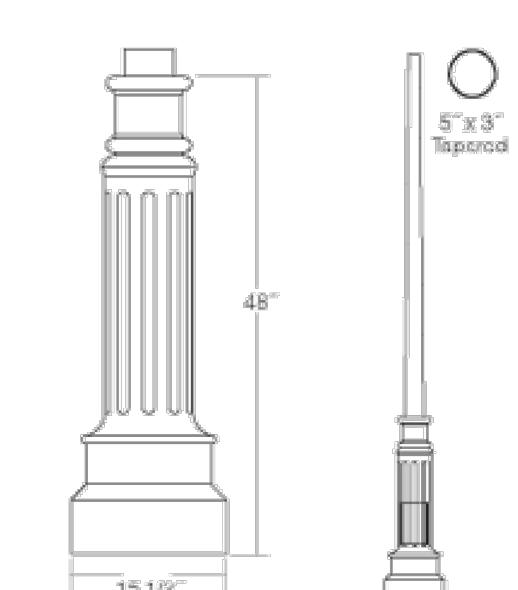
NOT TO SCALE

#### COOPER LIGHTING INVUE EPIC MEDIUM WALL SCONCE

NOT TO SCALE



Ordering Guide	
Example: P4420 12 A T D	
Product Code	P4420
Pole Height	12
Finish	A Black
Outlet Location (Optional)	T 12' Down from Top - Aligned with House Side
Outlet Options (Optional)	D Standard Duplex



#### Specifications

**HOUSING:** 356 HM high-strength, low-copper, proprietary cast aluminum alloy - 6063-T6 Extruded aluminum. Anchor rods are hot-dipped galvanized steel.

**FINISH:** A durable polyurethane enamel finish is applied after assemblies are shot blasted to create a surface profile which allows for the highest level of paint adhesion. Laboratory tested for superior weathering and fade resistance in accordance with ASTM B-117-64 and ANSI/ASTM G53-77 specifications. For larger projects where a custom color is required, contact your sales representative for more information.

#### WARRANTY:

Three-year limited warranty.

#### OUTLET:

Standard Duplex outlet has universal metal weatherproof cover. Weatherproof while in use. Heavy-duty all-metal construction. Lockable security cover. Meets NEC 406.9 (B). Weather resistant. GFI Duplex outlet has dual-function indicator light, universal metal weatherproof cover. Weatherproof while in use. Heavy-duty all-metal construction. Lockable security cover. Meets NEC 406.9 (B). Weather resistant.

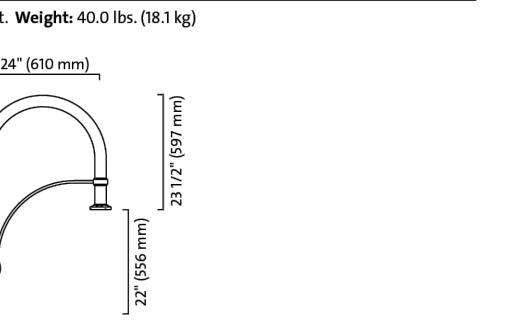
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#### SIGNIFY HADCO URBAN P4420 POLE WITH GOOSE NECK BRACKET

NOT TO SCALE

#### GOOSE NECK BRACKET > BM / LM / TM / NM

BM  
EPA: 2.00 sq ft. Weight: 40.0 lbs. (18.1 kg)



Specifications

The BM mounting arm features a 2 3/8" O.D. (60 mm) extruded aluminum tube bent at 90° and welded to a cast-aluminum adapter.

The mounting arm includes an aluminum decorative element welded to the arm.

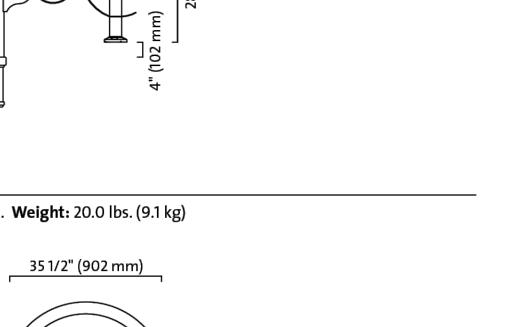
The luminaire adaptor will accept a luminaire equipped with Lume's four-bolt mounting system.

The aluminum central pole adaptor slip-fits 9" (229 mm) over a 4" (102 mm), 5" (127 mm) or 5 9/16" (141 mm) O.D. pole or tenon.

Configurations

1A 2 M

LM  
EPA: 2.59 sq ft. Weight: 21.0 lbs. (9.5 kg)



Specifications

The LM mounting arm features a 2 3/8" O.D. (60 mm) extruded aluminum tube bent at 90° and welded to a cast-aluminum adapter.

The mounting arm includes a flat rolled aluminum decorative element.

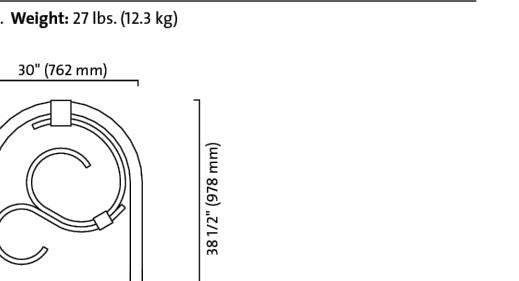
The luminaire adaptor will accept a luminaire equipped with Lume's four-bolt mounting system.

The aluminum central pole adaptor slip-fits 9" (229 mm) over a 4" (102 mm), 5" (127 mm) or 5 9/16" (141 mm) O.D. pole or tenon.

Configurations

1A 2 2A 3 3B 4 M

TM  
EPA: 2.37 sq ft. Weight: 20.0 lbs. (9.1 kg)



Specifications

The TM mounting arm features a 2 3/8" O.D. (60 mm) extruded aluminum tube bent at 90° and welded to a cast-aluminum pole adaptor.

The mounting arm includes an extruded aluminum 1 1/16" (27 mm) O.D. decorative element welded to the arm.

The luminaire adaptor will accept a luminaire equipped with Lume's four-bolt mounting system.

The aluminum central pole adaptor slip-fits over a 4" (102 mm), 5" (127 mm) or 5 9/16" (141 mm) O.D. pole or tenon.

Configurations

1A 2 3 3B 4 M

NM  
EPA: 2.81 sq ft. Weight: 27 lbs. (12.3 kg)



Specifications

The NM mounting arm features a 3 1/8" O.D. (80 mm) extruded aluminum tube bent at 90° and welded to a cast-aluminum pole adaptor.



