

## MASSACHUSETTS UTILITY NOTES

(REV. 7/2024)

- THE CONTRACTOR'S PRICE FOR WATER AND SEWER SERVICE INSTALLATIONS MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES REQUIRED BY THE UTILITY PROVIDER (AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK) TO PROVIDE FULL AND COMPLETE WORKING SERVICE, INCLUDING (BUT NOT LIMITED TO) NECESSARY FEES, TESTING, DRAINS, BACKFLOWS, OVERHEAD WIRES, AND ANY WALL APPURTENANCES SHALL BE COORDINATED BY THE PROVIDER (AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK).
- ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANY WALL APPURTENANCES SHALL BE COORDINATED BY THE CC WITH THE LOCAL UTILITY COMPANIES PRIOR TO THE ORDERING OF ANY MATERIALS. THIS MAY INCLUDE BUT IS NOT LIMITED TO THE REQUEST FOR A LOCATION FOR THE POLE, PROTECTION OF ANY BRACING, GUY WIRES, HEAD WIRES, ETC. AS MAY BE REQUIRED TO ACCOMMODATE THE PROJECT.
- SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW, SHALL BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 18 INCHES. IF SEPARATION IS NOT POSSIBLE, THE PIPE MUST BE AT A MINIMUM BEING PLACED IN SEPARATE TRENCHES WITH AT LEAST 18 INCHES OF VERTICAL SEPARATION FROM THE BOTTOM OF THE WATER MAIN TO THE TOP OF THE SEWER LINE. WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCAUSED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-JOINTS FOR A DISTANCE OF AT LEAST 18 INCHES. THE CONTRACTOR SHALL VERIFY THE SEPARATION DISTANCE AND THE PIPE JOINTS ARE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SANITARY SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SANITARY SEWER MUST BE PROVIDED. ALL CROSSINGS SHALL BE IN ACCORDANCE WITH THE PROPER PLACEMENT, PROTECTION, AND SUPPORT REQUIREMENTS.
- WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST ALSO EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO THE TERMINUS LOCATIONS WITH A 2X4 STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER FOR RECORD.
- UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC., MUST BE INSTALLED UNDERGROUND.
- SANITARY LATERALS MUST BE PVC SDR 26 UNLESS CLEARLY INDICATED OTHERWISE. SANITARY LATERALS MUST BE PVC SDR 26 UNLESS CLEARLY INDICATED OTHERWISE.
- UNLESS CLEARLY INDICATED OTHERWISE, ALL SANITARY PIPE MUST BE PVC SDR 26.
- FOR PIPES GREATER THAN 12 FEET DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034.
- FOR PIPES GREATER THAN 12 FEET DEEP, POLYVINYL CHLORIDE (PVC) SDR 26 PER ASTM D3034.
- UNLESS LOCAL OR STATE BUILDING / PLUMBING CODE CLEARLY SPECIFIES DIFFERENTLY, SANITARY LATERALS MUST BE PVC SDR 26.
- ALL UTILITY PIPING (INCLUDING DRAIN) WITHIN 10 FT OF A BUILDING, PIPE MATERIAL SHALL COMPLY WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES. CONTRACTOR SHALL REFER TO PLUMBING ENGINEERING PLANS AND VERIFY PIPE MATERIAL WITH LOCAL OFFICIAL PRIOR TO ORDERING OF MATERIALS.
- CONTRACTOR SHALL VERIFY THE CONSTRUCTION OF EXISTING EXTERIOR PIPE LINES AND EXTERIOR EXHAUST DUCTS (SUCH AS AN EXTERIOR GREASE INTERCEPTOR) OR OTHER CONSTRUCTION SYSTEMS WITH LOCAL OFFICIALS FOR COMPLIANCE WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES PRIOR TO ORDERING OF MATERIALS.
- WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER UTILITY. WATER MAINS MUST BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.
- GAS MASTERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER.
- TRANSFORMERS AND SWITCH GEARS: GC SHALL PROVIDE ALL APPURTENANCES IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS AND CARRY SAME IN BASE BID. APPURTENANCES SHALL INCLUDE, BUT NOT BE LIMITED TO, THE CONCRETE PAD, SECONDARY SPILL CONTAINMENT AREAS (IF REQUIRED), BOLLARD / VEHICULAR PROTECTION, AND OTHER ITEMS AS MAY BE REQUIRED. CONTRACTOR SHALL PROVIDE A COORDINATED LOCATION OF THE TRANSFORMER AND SWITCH GEAR (IF REQUIRED). GC SHALL COORDINATE ALL ASPECTS OF INSTALLATION WITH UTILITY PROVIDER PRIOR TO ORDERING OF MATERIALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN WRITING.

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TM  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

TM  
AUTORIZATION SIGNATURES AND STAMPS ARE NOT REQUIRED FOR THIS DRAWING. THEY WILL BE REQUIRED FOR CONSTRUCTION APPROVALS  
S

## REVISIONS

REV	DATE	COMMENT	DRAWN BY CHECKED BY
1	10/31/2024	RESPONSE TO TOWN COMMENTS	SSB AWP



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PROJECT No.: MAA240187.00-1A  
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 //

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SOUTHBOROUGH, MA 01772  
Phone: (508) 480-9900

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**J.G. SWERLING**  
CIVIL  
PROFESSIONAL ENGINEER  
MASS. PRACTICE LICENSE #697  
NEW JERSEY PRACTICE LICENSE #995  
MANUFACTURER'S PRACTICE LICENSE #16  
CONNECTICUT PRACTICE LICENSE #30785  
RI. PRACTICE LICENSE #11425

## SHEET TITLE:

## UTILITY PLAN

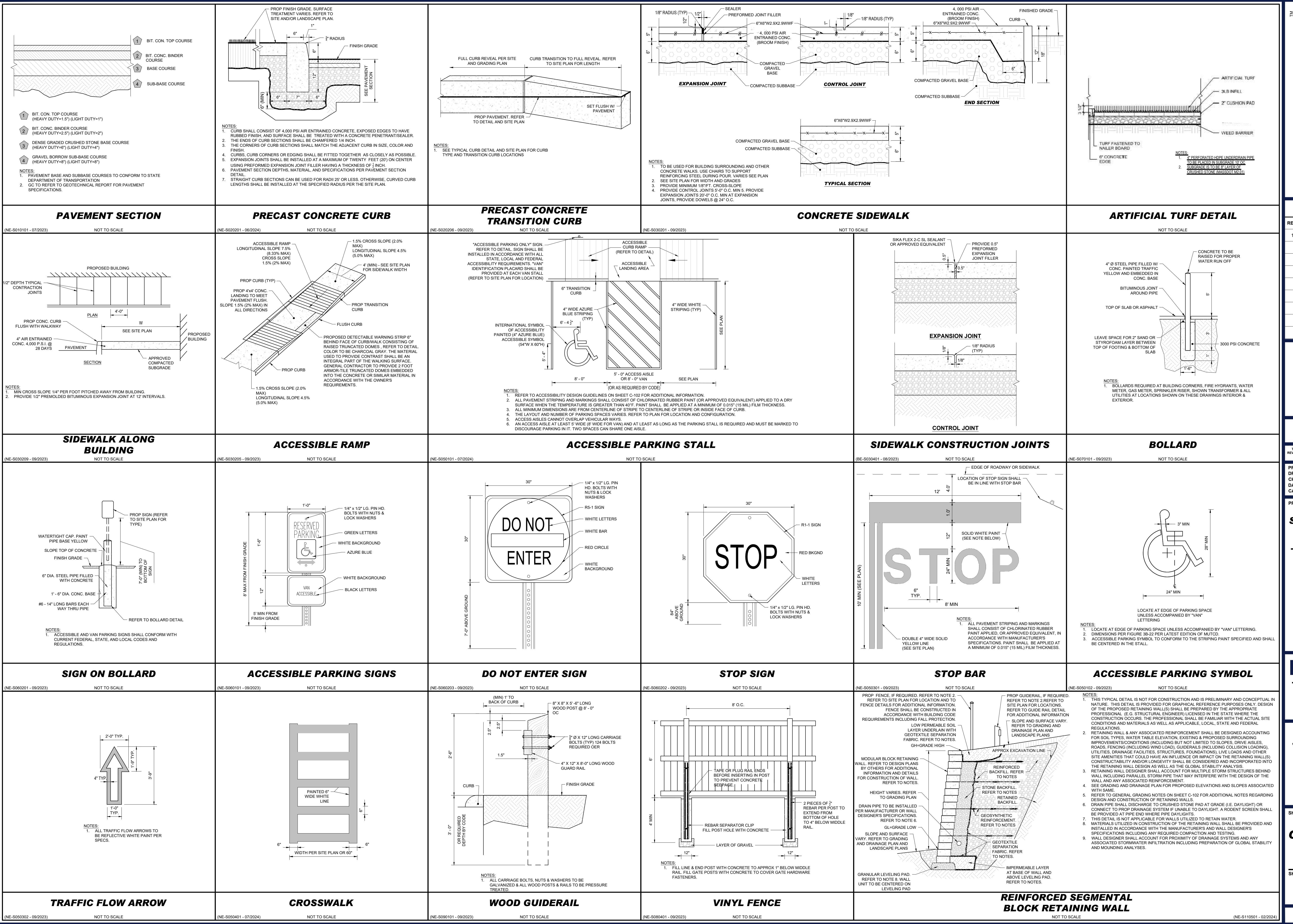
SHEET NUMBER:  
**C-501**

REVISION 1 - 10/31/2024

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SCALE: 1" = 30'









REVISIONS		
REV	DATE	COMMENT
1	10/31/2024	RESPONSE TO TOWN COMMENTS SBB AWP



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PROJECT No.: MAA240187.00-1A  
DRAWN BY: SBB  
CHECKED BY: AWP  
DATE: 08/28/2024  
CAD ID.: 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

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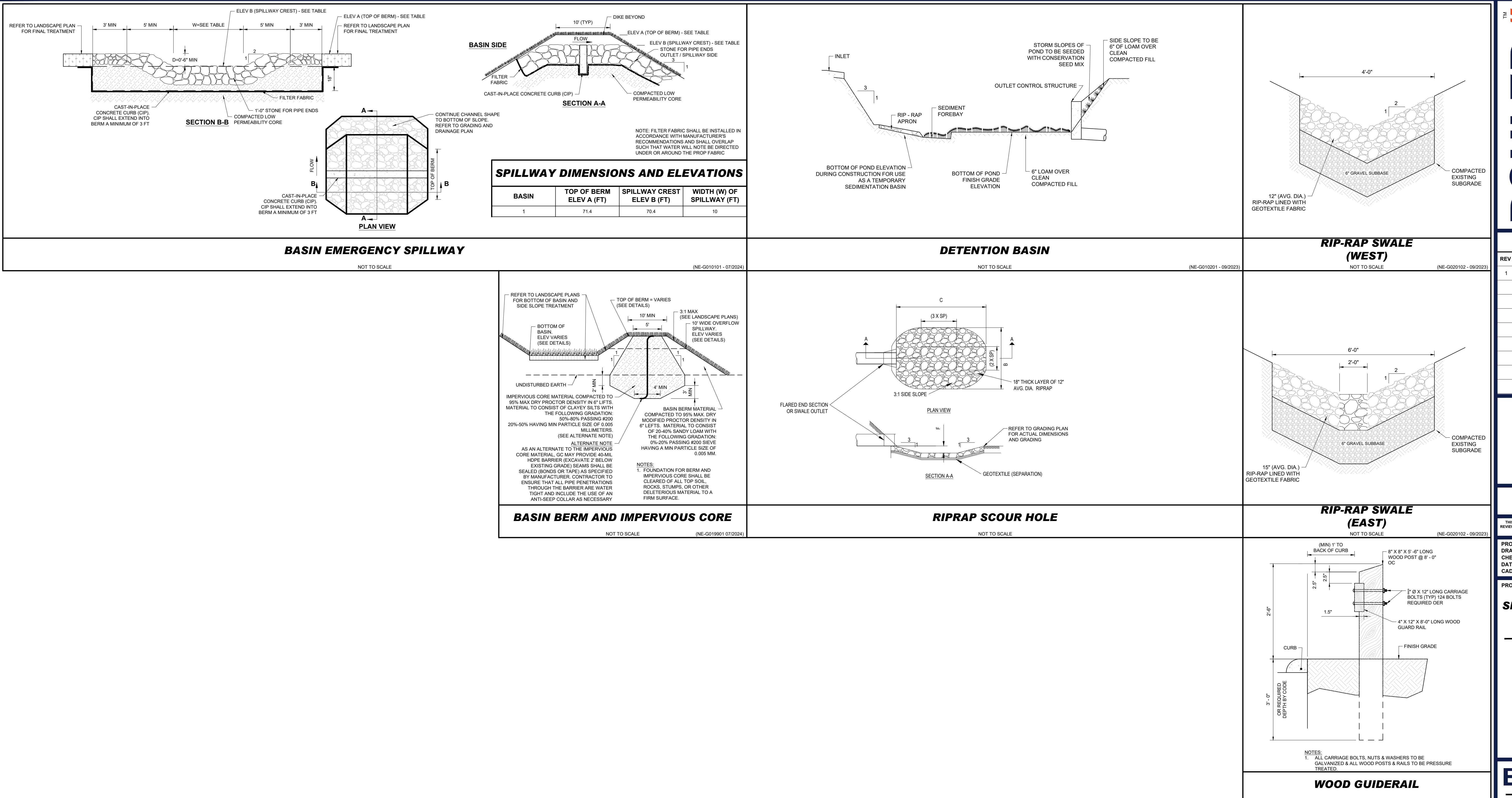


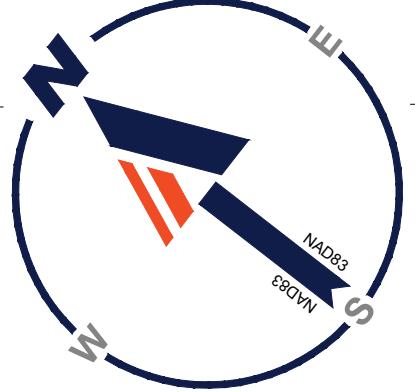
SHEET TITLE:

**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-903**

REVISION 1 - 10/31/2024





P:\2024\MAA240187.00\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\P-CIVL-LSCP-MAA240187.00-1A---->LAYOUT: L-101 LSCP

## **TOWN OF MILTON LANDSCAPE REQUIREMENTS**

SECTION	REQUIREMENTS	CALCULATIONS/PROPOSED
<u>275-11.8</u>	<b>G. SCREENING IN RESIDENTIAL DISTRICTS</b> EACH PARKING AREA FOR MORE THAN 5 VEHICLES IN A RESIDENCE AA, A, B OR C DISTRICT SHALL BE SCREENED FROM THE STREET AND ANY LOT OF AN ADJOINING OWNER WITH SHRUBS AND TREES OF A SIZE AND NUMBER SUFFICIENT TO PROVIDE EFFECTIVE SCREENING WITHIN THREE YEARS FROM THE DATE ON WHICH SUCH SHRUBS AND TREES ARE ESTABLISHED. THE USE OF VEGETATED BERMS MAY BE USED TO PROVIDE SCREENING.	PROVIDED

## PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
<b>EVERGREEN TREES</b>					
JS	31	JUNIPERUS CHINENSIS 'SPARTAN'	SPARTAN JUNIPER	6-8'	B&B
PGL	16	PICEA GLAUCA	WHITE SPRUCE	6-8'	B&B
PIAB	17	PICEA ABIES	NORWAY SPRUCE	6-8'	B&B
PPC	1	PICEA PUNGENS 'GLAUCA'	COLORADO BLUE SPRUCE	6-8'	B&B

SHRUBS					
BS	25	BUXUS SEMPERVIRENS	COMMON BOXWOOD	24-30"	CONTAINER
CA	21	CEANOOTHUS AMERICANUS	NEW JERSEY TEA	24-30"	CONTAINER
HME	29	HYDRANGEA MACROPHYLLA 'ENDLESS SUMMER'	ENDLESS SUMMER HYDRANGEA	24-30"	CONTAINER
IGB	11	ILEX GLABRA 'SMNIGAB17'	GEM BOX INKBERRY HOLLY	18-24"	CONTAINER
MP	6	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	30-36"	CONTAINER
PFG	12	POTENTILLA FRUTICOSA 'GOLDFINGER'	GOLDFINGER BUSH CINQUEFOIL	18-24"	CONTAINER
RAG	10	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	15-18"	CONTAINER
RCN	5	RHODODENDRON CATAWBIENSE 'NOVA ZEMBLA'	NOVA ZEMBLA CATAWBA RHODODENDRON	24-30"	CONTAINER
RR	19	RHAMNUS FRANGULA 'RON WILLIAMS'	FINE LINE® ALDER BUCKTHORN	24-36"	CONTAINER
RXPB	18	RHODODENDRON X 'PATTY BEE'	PATTY BEE RHODODENDRON	18-24"	CONTAINER
TH	4	TAXUS X MEDIA 'HICKSII'	HICKS YEW	30-36"	CONTAINER
GRASSES					
PVS	9	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	1 GAL.	CONTAINER
GROUNDCOVER					

### **REVISION**



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DOCUMENT UNLESS INDICATED OTHERWISE.**

JECT No.: MAA240187.00-1A  
WN BY: SBB  
CKED BY: AWP  
E: 08/28/2024  
D I.D.: P-CIVL-LSCP

# WEBSITE DEVELOPMENT PLANS



PROPOSED  
CHILD CARE FACILITY

# BOHLER

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Phone: (508) 480-9900

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OHIO No. 250438

# **LANDSCAPE PLAN**

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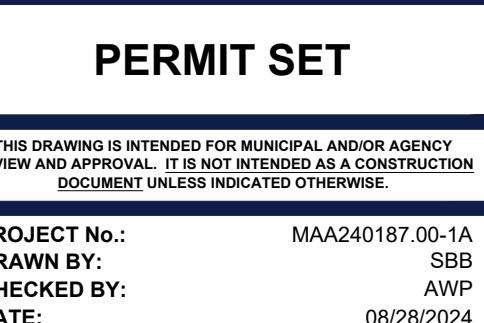
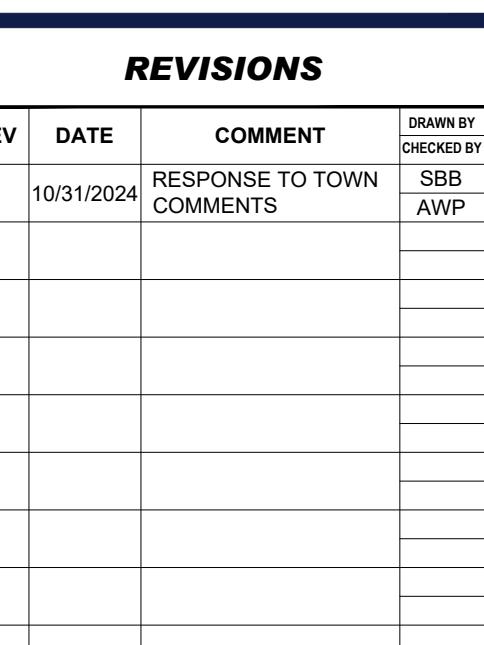
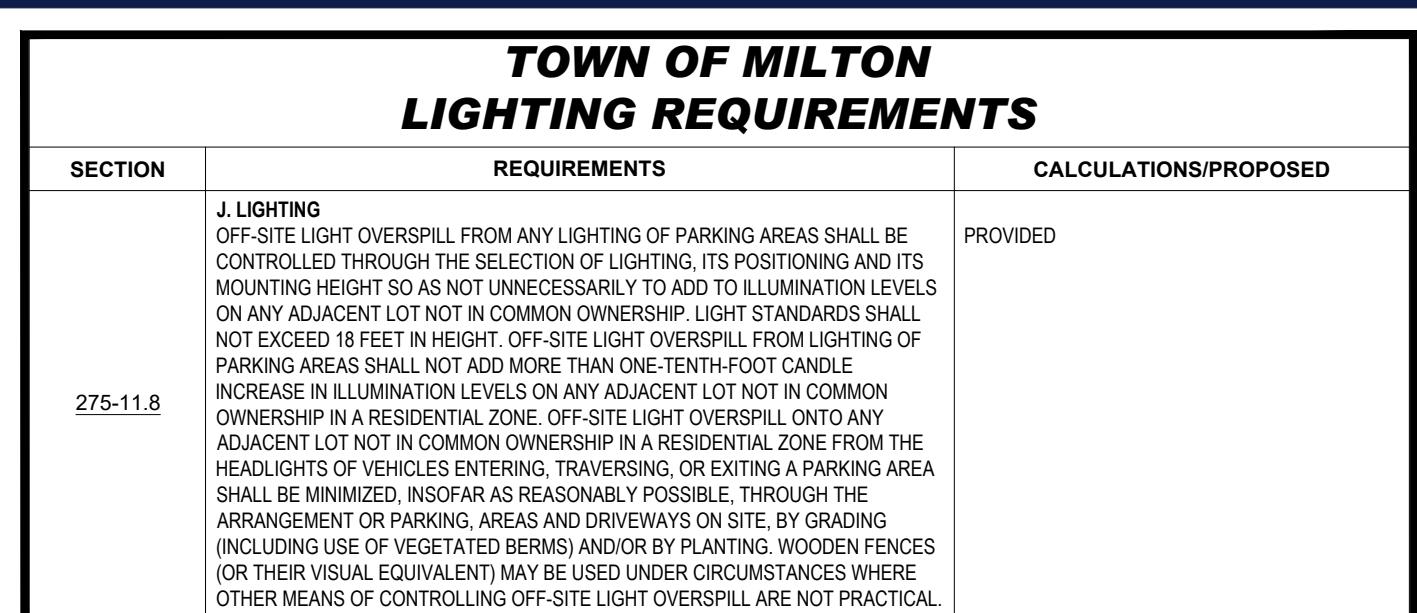
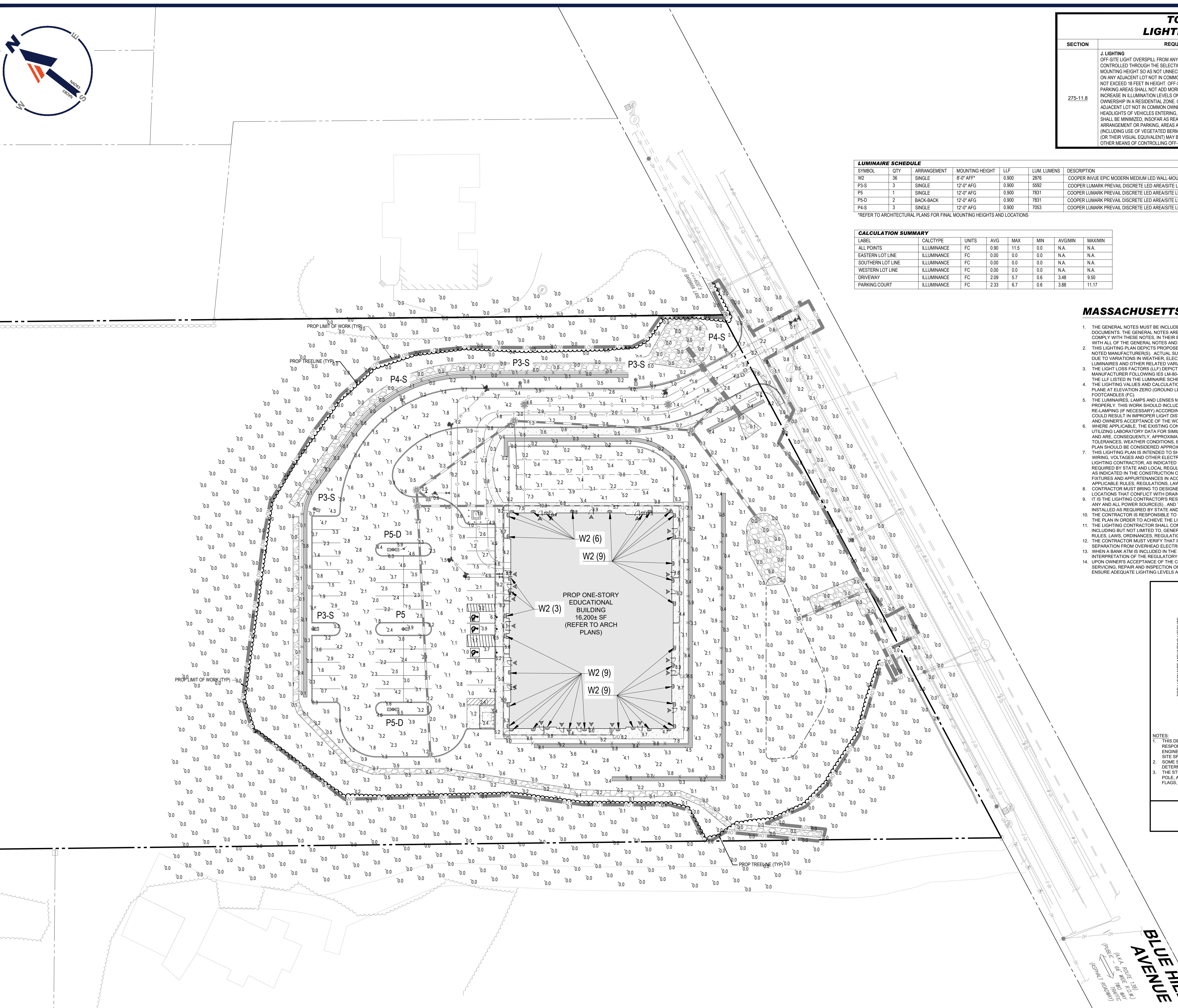
**THIS PLAN TO BE UTILIZED  
FOR LANDSCAPE  
PURPOSES ONLY**

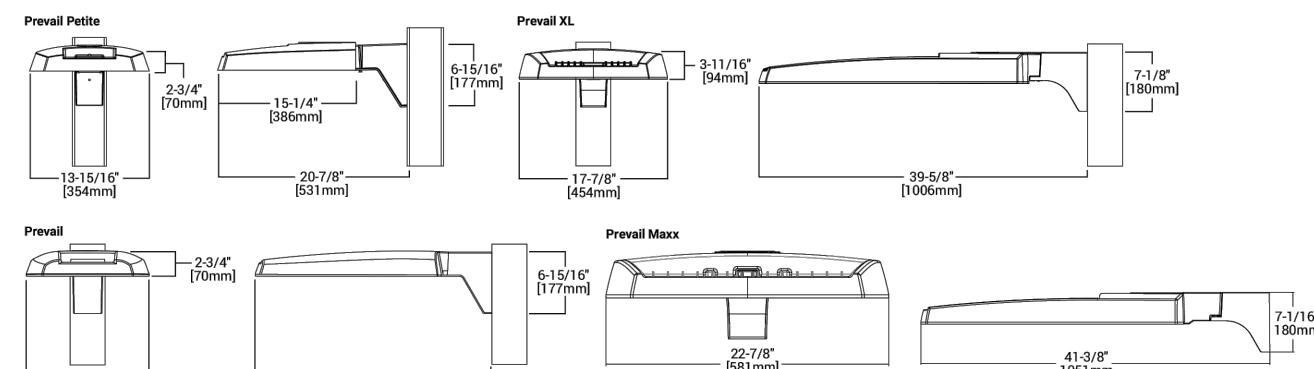
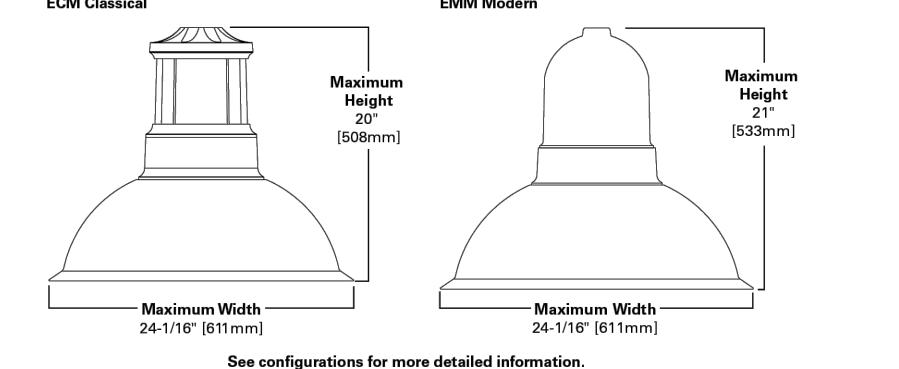
SCALE: 1" = 30'

REVISION 1 - 10/31/2021

REVISION 1 - 10/31/2024





Project	Catalog #	Type								
Prepared by	Notes	Date								
										
<p><b>Lumark</b> <b>Prevail Discrete LED</b></p> <p><b>Area / Site Luminaire</b></p> <p><b>Product Features</b></p> <ul style="list-style-type: none"> <li>Luminate Technology</li> <li>BAA</li> <li>FADC</li> </ul> <p><b>Product Certifications</b></p> <ul style="list-style-type: none"> <li>ETL</li> <li>IP66</li> <li>UL</li> <li>FC</li> <li>RoHS</li> <li>5 YEAR</li> </ul> <p><b>Interactive Menu</b></p> <ul style="list-style-type: none"> <li>Ordering Information</li> <li>Mounting Details</li> <li>Optical Configurations</li> <li>Product Specifications</li> <li>Energy and Performance Data</li> <li>Control Options</li> </ul> <p><b>Quick Facts</b></p> <ul style="list-style-type: none"> <li>Direct-mounted discrete light engine for improved optical uniformity and visual comfort</li> <li>Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)</li> <li>Replaces 70W up to 1,000W HID equivalents</li> <li>Efficacies up to 157 lumens per watt</li> <li>Standard universal quick mount arm with universal drill pattern</li> </ul> <p><b>Dimensional Details</b></p>  <p><b>NOTES:</b> 1 Visit <a href="http://www.designlights.org">www.designlights.org</a> to confirm qualification. Not all product variations are DLC qualified. 2 UL Certified for 2000K CCT and warmer only.</p> <p><b>COOPER</b> Lighting Solutions</p> <p>PS500005EN page 1 June 6, 2024 6:54 PM</p>										
<p><b>DESCRIPTION</b> 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.</p> <p><b>Invue</b></p> <table border="1"> <thead> <tr> <th>Catalog #</th> <th>Type</th> </tr> <tr> <td>Project</td> <td></td> </tr> <tr> <td>Comments</td> <td>Date</td> </tr> <tr> <td>Prepared by</td> <td></td> </tr> </thead> </table> <p><b>SPECIFICATION FEATURES</b></p> <p><b>Construction</b> 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 the mounting arm to the luminaire body. (See the mounting accessories section for a full selection of mounting arms.) Mounting arms are not compatible with the Epic luminaire. MIDSECTION: Continuous silicone gaskets seal lens to top casting. The mid section features cast aluminum construction and stainless steel mounting hub. SHADES: Heavy gauge pressure die-cast aluminum offers superior surface finish and consistency in form. DOORFRAME: Direct mounting to underside of shade with a thick wall continuous silicone gasket. Mounting hub ships attached to mounting arm.</p> <p><b>Electrical</b> LED drivers mount to die-cast aluminum base plate for optimal heat sinking, operation efficiency, and prolonged life. Standard drivers feature electronic universal voltage (120-277V 50/60Hz), 347V cold cathode, 6000K, 90 CRI, greater than 0.9 power factor, less than 20% harmonic distortion, and 50,000 hours of life at 40°C to 40°C ambient environments. All fixtures are shipped standard with 10KV/10KA common-mode surge protection. LightBARs feature and IP66 enclosure rating and maximum greater than 90% lumens maintained at 50,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.</p> <p><b>Warranty</b> Five-year warranty.</p> <p><b>Finish</b> Choice of twelve patented, high-efficiency AccuLED Optic™ technology manufactured from injection-molded acrylic. Optics are precision designed to match the optics, maximizing efficiency and application spacing. AccuLED Optic technology, creates consistent distributions with the scalability to meet customized applications.</p> <p><b>fade and wear. LightBAR™ cover plates are standard white and may be specified to match finish of fixture or luminaire. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom colors are also available. Refer to Outdoor Architectural Colors brochure for a complete selection. Options to meet Buy American Act requirements</b></p> <p><b>ECM/EMM</b> <b>EPIC MEDIUM LED</b></p> <p>1 - 4 LightBARs Solid State LED</p> <p><b>DECORATIVE AREA LUMINAIRE</b></p> <p><b>DIMENSIONS</b></p>  <p><b>NOTES:</b> See configurations for more detailed information.</p> <p><b>COOPER</b> Lighting Solutions</p> <p>*www.designlights.org</p> <p>TD600029EN December 8, 2021 2:28 PM</p>			Catalog #	Type	Project		Comments	Date	Prepared by	
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Comments	Date									
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<p><b>COOPER LUMARK PREVAIL DISCRETE LED AREA LUMINAIRE</b></p> <p>NOT TO SCALE</p> <p>PS500005EN page 1 June 6, 2024 6:54 PM</p>										
<p><b>COOPER LIGHTING INVUE EPIC MEDIUM WALL SCONCE</b></p> <p>NOT TO SCALE</p>										
<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>REV</th> <th>DATE</th> <th>COMMENT</th> <th>DRAWN BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>10/31/2024</td> <td>RESPONSE TO TOWN COMMENTS</td> <td>SBB AW</td> </tr> </tbody> </table> <p><b>811</b> Know what's below. Call before you dig. ALWAYS CALL 811 It's fast. It's free. It's the law.</p> <p><b>PERMIT SET</b></p> <p>THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.</p> <p>PROJECT No.: MAA240187.00-1A DRAWN BY: SBB CHECKED BY: AW DATE: 08/28/2024 CAD I.D.: P-CIVL-LGHT</p> <p>PROJECT:</p> <p><b>SITE DEVELOPMENT PLANS</b></p> <p>FOR  PROPOSED CHILD CARE FACILITY MAP: B7   LOT: 5 0 BLUE HILL AVENUE NORFOLK COUNTY MILTON, MA</p> <p>352 TURNPIKE ROAD, 3rd FLOOR SOUTHBOROUGH, MA 01772 Phone: (508) 480-9900 <a href="http://www.BohlerEngineering.com">www.BohlerEngineering.com</a></p> <p></p> <p>SHEET TITLE: <b>LIGHTING NOTES AND DETAILS</b></p> <p>SHEET NUMBER: <b>L-202</b></p> <p>REVISION 1 - 10/31/2024</p>			REV	DATE	COMMENT	DRAWN BY	1	10/31/2024	RESPONSE TO TOWN COMMENTS	SBB AW
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1	10/31/2024	RESPONSE TO TOWN COMMENTS	SBB AW							

