

# BANGOR SAVINGS BANK

111 LOUDON ROAD  
CONCORD, NH

**SITE ENGINEER**  
NOBIS GROUP - CONCORD, NH

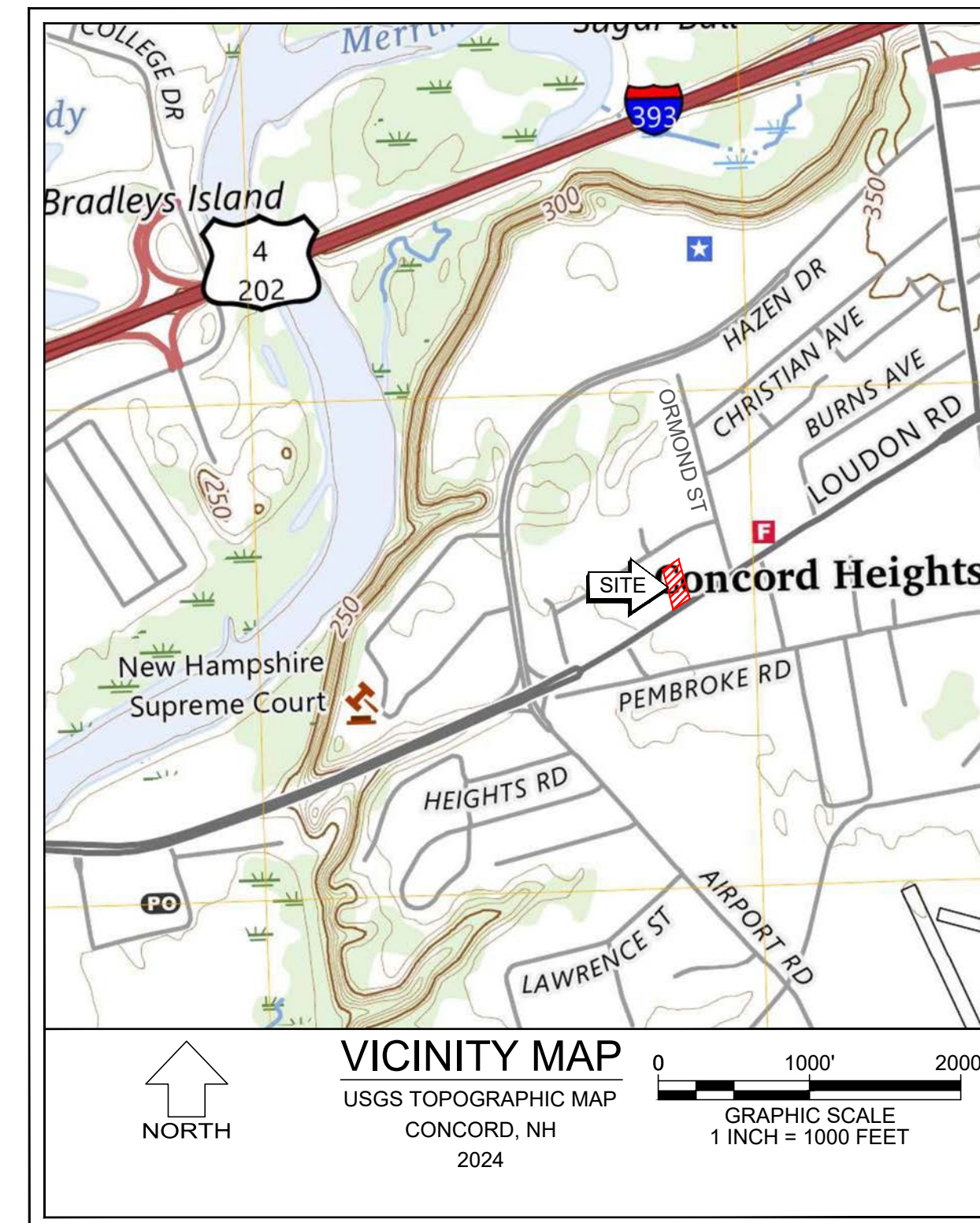
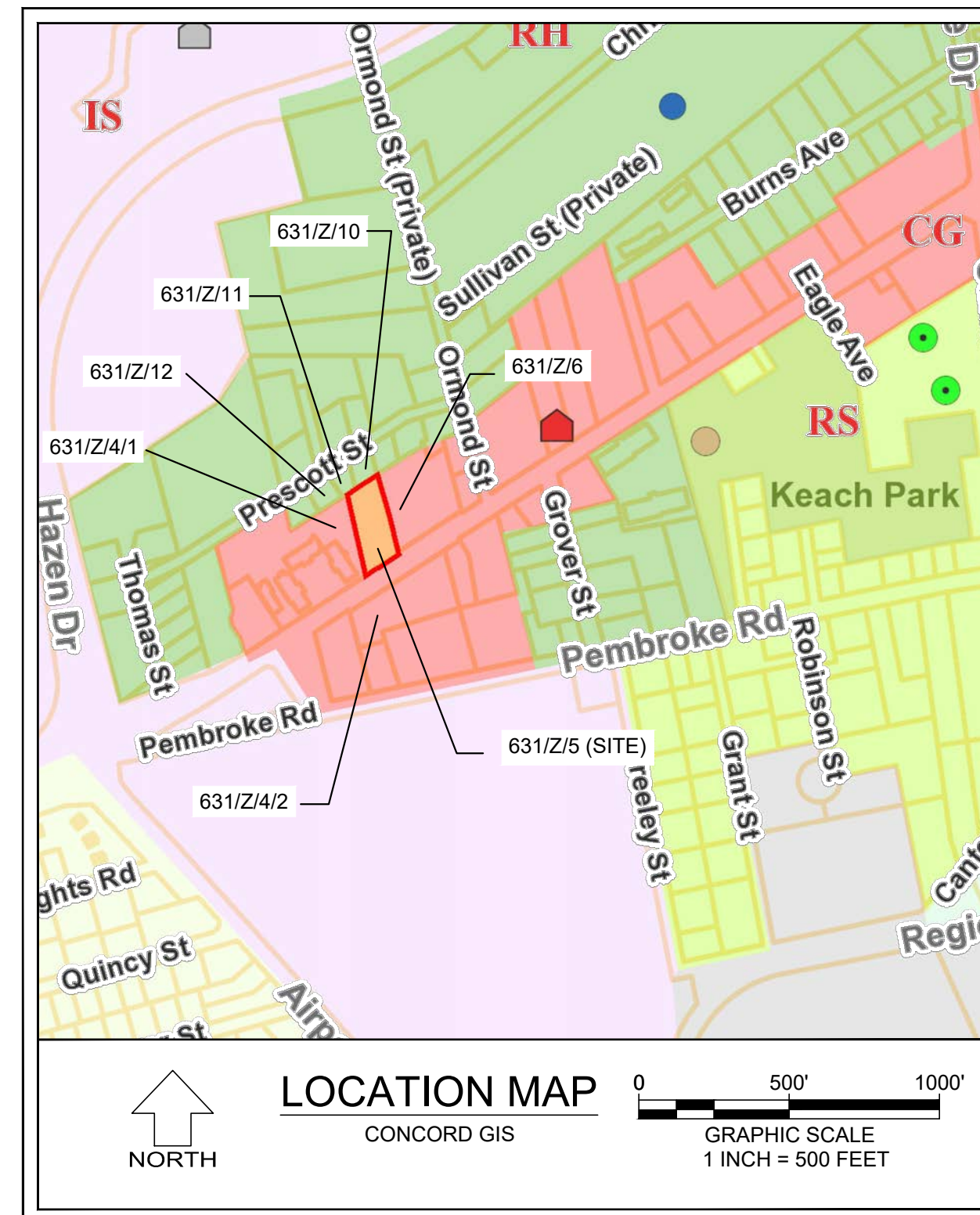
**ARCHITECT**  
WARRENSTREET ARCHITECTS - CONCORD, NH

**SURVEYOR**  
RICHARD D. BARTLETT & ASSOCIATES - CONCORD, NH

**LANDSCAPE ARCHITECT**  
WARRENSTREET ARCHITECTS - CONCORD, NH

**SITE LIGHTING**  
VISIBLE LIGHT - HAMPTON, NH

**TRAFFIC ENGINEER**  
VHB - BEDFORD, NH



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FOR SITE PLAN REVIEW  
DECEMBER 18, 2024

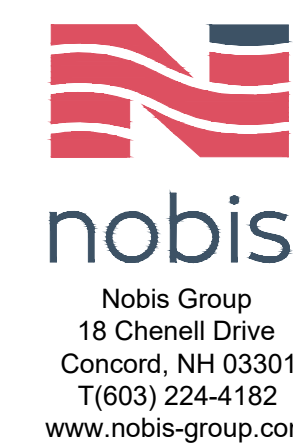
PLANNING BOARD APPROVAL

APPROVED BY CITY OF CONCORD, NH PLANNING BOARD

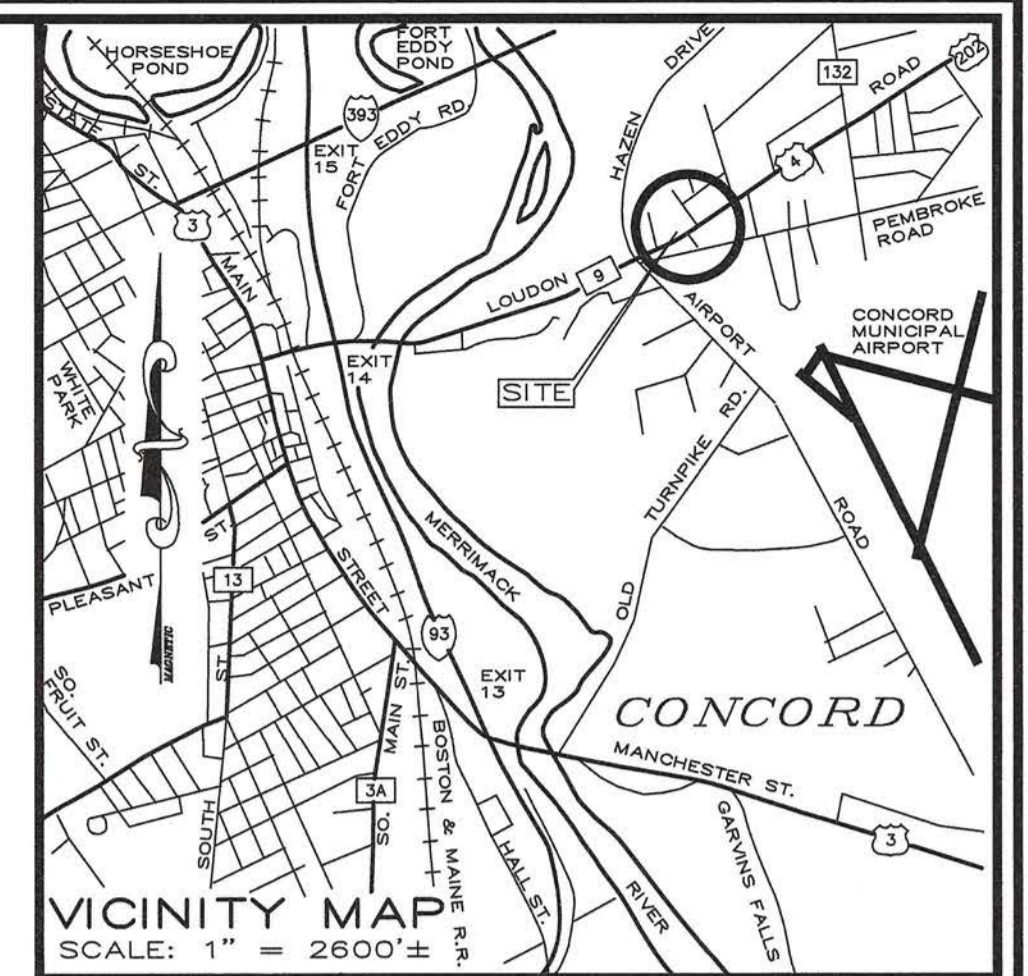
ON \_\_\_\_\_  
DATE

CONCORD PLANNING BOARD CHAIR \_\_\_\_\_ DATE \_\_\_\_\_

CONCORD PLANNING BOARD CLERK \_\_\_\_\_ DATE \_\_\_\_\_







**LEGEND**

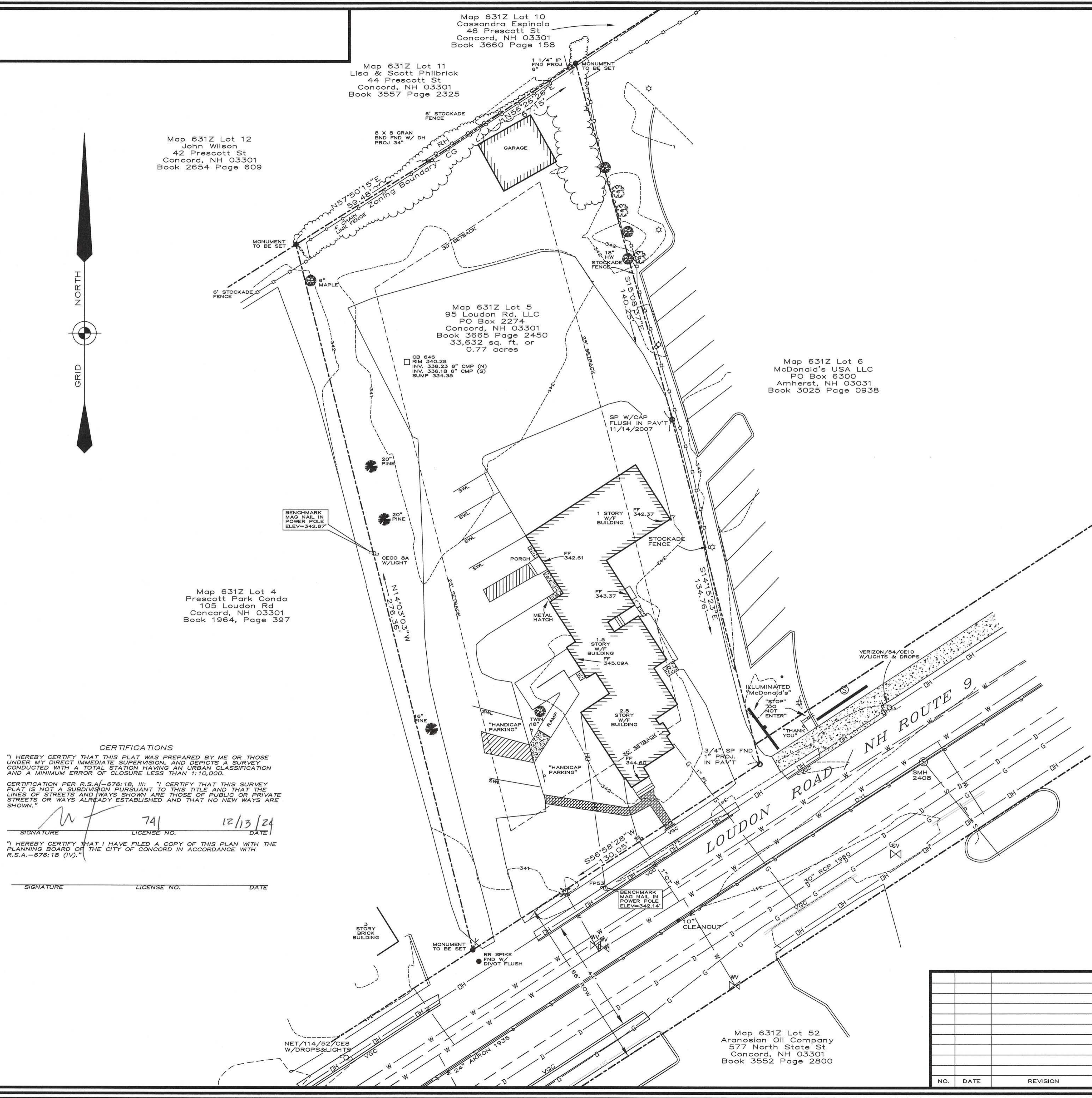
---	PROPERTY LINE	⊙	CONIFEROUS TREE
---	EDGE OF PAVEMENT	⊙	SHRUB
---	EDGE OF GRAVEL	⊙	DECIDUOUS TREE
---	OVERHEAD UTILITY LINES	⊙	ARTESIAN WELL
---	DRAINAGE LINE	⊙	IRON PIPE OR REBAR
---	SEWER LINE	⊙	GRANITE OR CONCRETE BOUND (GB OR CB)
---	GAS LINE	⊙	DRILL HOLE (DH)
---	TEL. LINE	⊙	UTILITY POLE
---	UNDERGROUND ELECT.	⊙	LIGHT POLE
---	DOUBLE YELLOW LINE	⊙	SEWER MANHOLE
---	SINGLE WHITE LINE	⊙	DRAIN MANHOLE
---	VERTICAL OR SLOPED GRANITE CURB	⊙	CATCH BASIN
---	SHORE LINE	⊙	HYDRANT
---	CHAIN LINK FENCE	⊙	WATER SHUTOFF
---	STOCKADE FENCE	⊙	WATER VALVE
---	STONE WALL	⊙	IRRIGATION CONTROL VALVE
---	EDGE OF WOODS	⊙	GAS SHUTOFF
---	CONCRETE	⊙	MONITORING WELL
---	SIGN	⊙	
---	HC-HANDICAPPED	⊙	
---	HVY-VAN ACCESSIBLE	⊙	
---	NP-NO PARKING	⊙	

**NOTES**

1. Survey by total station on May 17 and 18, 2021. Control Traverse error of closure 1:80,837.
2. Horizontal datum is based on New Hampshire State Plane Coordinate System NAD 83 based on GPS observations and OPUS solutions.
3. Vertical datum is based on NAVD 88.
4. Owner of record: 95 Loudon Road, LLC PO Box 2274 Concord, NH 03302, Book 3665, Page 2450, Map 631Z, Lot 5 Total area = 33,632 sq. ft. or 0.77 acres.
5. The subject premises is within the General Commercial zoning district. Minimum lot size = 25,000 sq. ft., Minimum buildable land = 12,500 sq. ft., Minimum frontage = 150', Building setbacks: front=30'; rear=30'; side=25', Maximum lot coverage = 80%.
6. The underground utilities depicted hereon have been located from field survey information and plotted from existing drawings. The surveyor makes no guarantee that the underground utilities depicted comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although they are located as accurately as possible from the information available. The surveyor has not physically located the underground portion of the utilities. All contractors should notify, in writing, any utility company and appropriate governmental agencies prior to any excavation work and call DIG-SAFE at 811.
7. The intent of this plat is to depict the existing conditions of 111 Loudon Road, Concord, NH.
8. The subject premises is serviced by municipal sanitary sewer and water.
9. The subject premises has direct access to Loudon Road/NH Route 9.

**REFERENCES**

1. Plat entitled "Plan of Properties in Concord, NH No. 119 Loudon Road Merrimack County prepared for: McDonald's Corporation" dated December 3, 1994 by Golden Land Survey, Inc recorded at the M.C.R.D. as plan no. 13246.
2. Plat entitled "Site Plan of Survey Prescott Park Condominium" dated June 6, 1994 by Holden Engineering and Surveying, Inc. and recorded at the M.C.R.D. as plan no. 13035.
3. Plat entitled "As Built Plat prepared for McDonald's USA, LLC" dated February 18, 2008 by Richard D Bartlett & Assoc. LLC, unrecorded.
4. Plat entitled "Plan of M.E. Prescott's House Lots" dated 1897 by Lane & James Engineers and recorded at the M.C.R.D. as plan no. 38.



**CERTIFICATIONS**

"I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED BY ME OR THOSE UNDER MY DIRECT IMMEDIATE SUPERVISION, AND DEPICTS A SURVEY CONDUCTED WITH A TOTAL STATION HAVING AN URBAN CLASSIFICATION AND A MINIMUM ERROR OF CLOSURE LESS THAN 1:10,000.

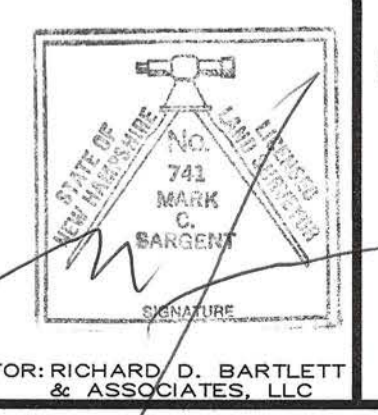
CERTIFICATION PER R.S.A. - 676:18, III: "I CERTIFY THAT THIS SURVEY PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND HWYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN."

SIGNATURE: [Signature] LICENSE NO. 741 DATE: 12/13/24

"I HEREBY CERTIFY THAT I HAVE FILED A COPY OF THIS PLAN WITH THE PLANNING BOARD OF THE CITY OF CONCORD IN ACCORDANCE WITH R.S.A. - 676:18 (IV)."

SIGNATURE: \_\_\_\_\_ LICENSE NO. \_\_\_\_\_ DATE \_\_\_\_\_

NO.	DATE	REVISION



**RICHARD D. BARTLETT & ASSOCIATES, LLC**

214 North State Street  
Concord, N.H. 03301  
Tel.: (603) 225-6770

info@richarddbartlett.com  
www.richarddbartlett.com

LICENSED LAND SURVEYORS

**EXISTING CONDITIONS PLAT of the land of 95 LOUDON ROAD, LLC**

PROJECT: 111 LOUDON ROAD CONCORD, NH  
LOCATION: MAP 631Z, LOT 5

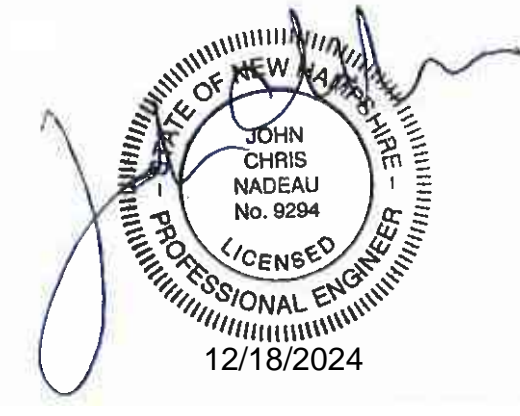
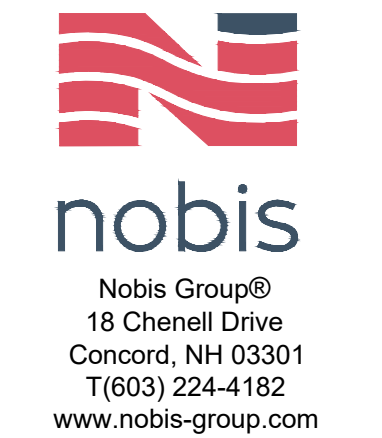
GRAPHIC SCALE: 0' 20' 40'

DATE: JUNE 22, 2021  
JOB NO.: 521.156  
SHEET 1 OF 1

J:\100165.000 Bangor Savings Bank 111 Loudon Rd. Concord, NH\CAD\Drawings\100165.000-C-100-DEMO.dwg 12/17/2024 12:42 PM



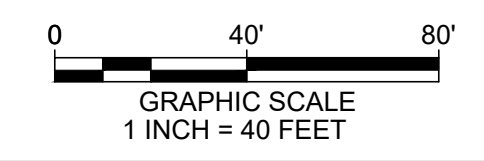
- NOTES:**
- REFER TO SURVEYOR'S PLAN FOR PLAN REFERENCES ADDITIONAL NOTES. EXISTING DRAINAGE AND SANITARY SEWER INVERT INFORMATION.
  - LOCATION AND ELEVATION OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
  - THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE TOWN FIRE AND POLICE DEPARTMENTS.
  - DEMOLISH STRUCTURES AND SITE FEATURES AS SHOWN HEREON AND REMOVE PAVEMENT TO LIMITS INDICATED.
  - CONTRACTOR IS RESPONSIBLE FOR OFF-SITE DISPOSAL OF CONSTRUCTION DEMOLITION DEBRIS IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
  - CONTRACTOR WILL COORDINATE REMOVAL/RELOCATION OF UNDERGROUND GAS AND OVERHEAD UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
  - ABATEMENT OF HAZARDOUS MATERIALS SUCH AS LEAD PAINT, ASBESTOS, ETC., WILL BE PERFORMED BY A LICENSED CONTRACTOR PRIOR TO COMMENCEMENT OF DEMOLITION. A PRE-DEMOLITION SURVEY WILL BE PERFORMED BY CONTRACTOR PRIOR TO THE START OF DEMOLITION ACTIVITIES TO ENSURE PROPER DEMOLITION AND DISPOSAL PROCEDURES.
  - DEMOLITION SEQUENCING WILL BE AS DIRECTED BY THE PRIME CONTRACTOR AND THE ARCHITECT.
  - FOR AREAS OUTSIDE OF THE PROPOSED BUILDING FOOTPRINT, DEMOLISH ALL EXISTING BUILDINGS AND FOUNDATIONS TO 24" BELOW FINISHED GRADE. CONSULT WITH ENGINEER FOR DEMOLITION REQUIREMENTS FOR AREAS WITHIN THE PROPOSED BUILDING FOOTPRINT.
  - ALL WORK PERFORMED TO CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE MUNICIPAL CONSTRUCTION STANDARDS.
  - REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND FOR CONSTRUCTION SEQUENCING NOTES.
  - CONTRACTOR WILL NOTIFY OWNER, ENGINEER, AND ARCHITECT IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
  - CONTRACTOR WILL PROTECT ALL EXISTING UTILITIES WITHIN THE LIMIT OF WORK. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
  - CONTRACTOR WILL PROTECT ALL SITE FEATURES OUTSIDE LIMIT OF WORK SHOWN HEREON. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO EXISTING SITE FEATURES AND ALL COSTS ASSOCIATED WITH REPLACEMENT OR REPAIR WILL BE BORNE BY THE CONTRACTOR.
  - DEMOLITION/REMOVAL OF EXISTING STORMWATER STRUCTURES AND PIPING WILL BE CONDUCTED DRY CONDITIONS TO THE EXTENT PRACTICAL. INSTALLATION OF NEW STRUCTURES AND PIPE WILL BE CONDUCTED PRIOR TO DEMOLITION TO THE EXTENT PRACTICAL.
  - PRIOR TO THE START OF CONSTRUCTION AND ISSUANCE OF ANY PERMITS, A PRE-CONSTRUCTION MEETING WILL BE HELD WITH CITY OF CONCORD ENGINEERING SERVICES TO DISCUSS SITE INSPECTIONS, ASSOCIATED FEES, SCHEDULE, ETC.



NOT ISSUED  
 FOR  
 CONSTRUCTION

**BANGOR SAVINGS BANK**  
 111 LOUDON ROAD  
 CONCORD, NEW HAMPSHIRE  
 APPLICANT:  
 BANGOR SAVINGS BANK  
 P.O BOX 930  
 BANGOR, ME 04402

NO.	DATE	DESCRIPTION
REVISIONS		

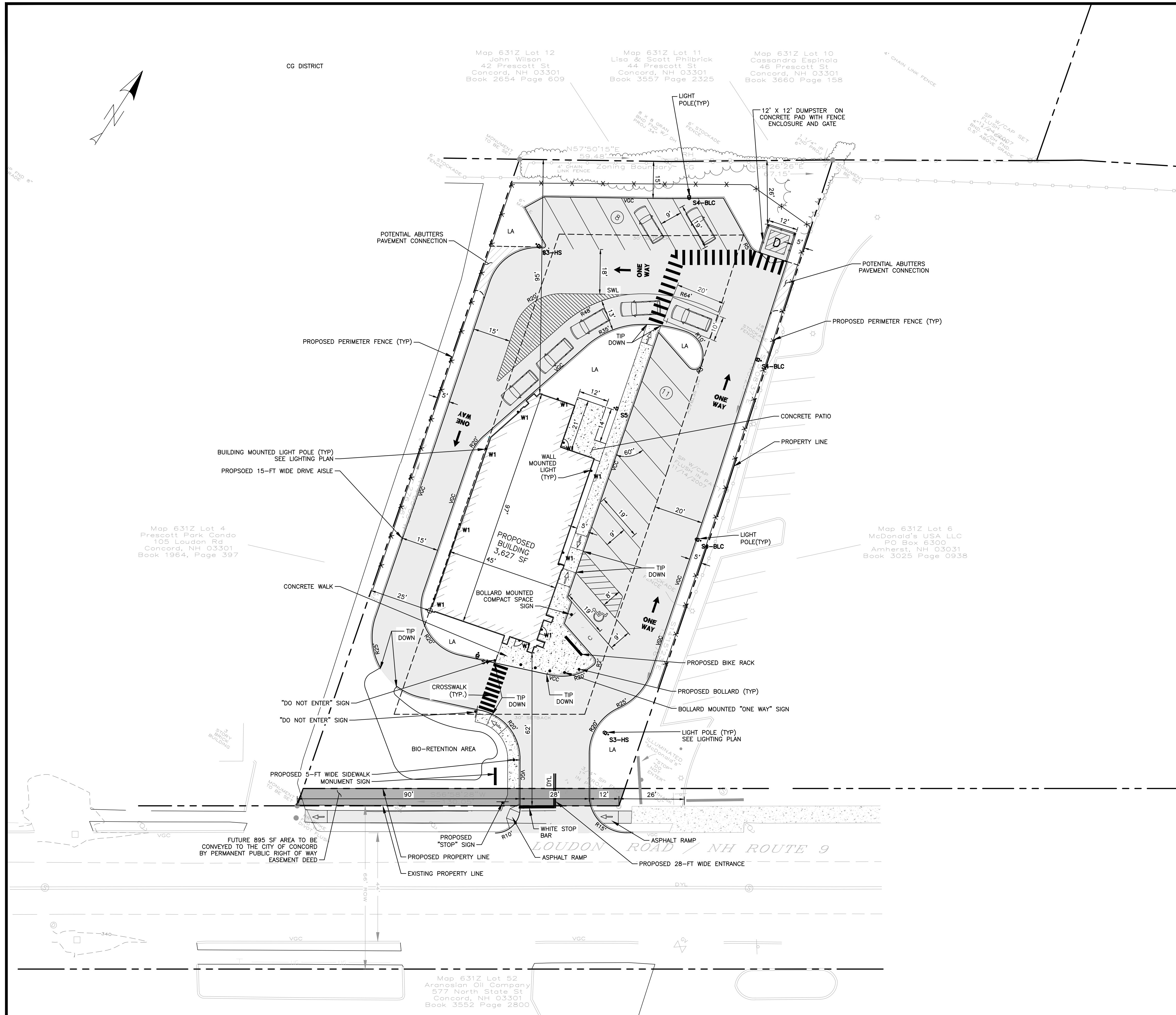


DATE: DEC 2024  
 NOBIS PROJECT NO. 100165.00  
 DRAWN BY: KLR  
 CHECKED BY: JIR  
 CAD DRAWING FILE:  
 100165.000-C-100-DEMO.dwg

**DEMOLITION AND EROSION CONTROL PLAN**

SHEET  
**C-1**

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- NOTES:**
1. THE PURPOSE OF THIS PLAN IS TO DEPICT THE SITE LAYOUT FOR THE PROPOSED CONSTRUCTION OF A NEW BANGOR SAVINGS BANK WITH DRIVE THRU.
  2. ALL BUILDING AND SITE CONSTRUCTION TO COMPLY WITH THE RULES AND REGULATIONS OF THE AMERICANS WITH DISABILITY ACT (ADA) 2010 EDITION.
  3. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALED DIMENSIONS. THE CONTRACTOR TO USE CAUTION WHEN SCALING REPRODUCED PLANS. IN THE EVENT OF A CONFLICT BETWEEN THIS PLAN SET AND ANY OTHER DRAWINGS AND/OR SPECIFICATIONS, THE ENGINEER WILL BE NOTIFIED BY THE CONTRACTOR.
  4. PROPOSED BUILDING WILL BE SERVICED BY MUNICIPAL WATER AND SEWER.
  5. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.

- PLAN REFERENCES:**
1. EXISTING CONDITIONS, TOPOGRAPHICAL INFORMATION, NORTH ORIENTATION, NORTH ARROW, AND COORDINATE VALUES DEPICTED ON THESE DRAWINGS ARE BASED ON PLANS TITLED "ALTANSPS LAND TITLE SURVEY OF THE LAND OF 95 LOUDON ROAD, LLC," DATED JUNE 22, 2021, PROVIDED TO NOBIS GROUP, BY RICHARD D. BARTLETT ASSOCIATES, LLC.

- CONCORD CHECKLIST NOTES:**
1. NO WETLANDS OR VERNAL POOLS ON SITE.
  2. NO WATER BODIES, WATER COURSE, OR WATERWAYS LOCATED ON SITE.
  3. REQUIRED USAGE LOT AREA = 26,905 SF
  4. NO SIDE STREETS TO PROPERTY.
  5. NO ADJACENT PARKS, SCHOOLS, CHURCHES, OR OTHER SIGNIFICANT MAN-MADE FEATURES
  6. NEAREST INTERSECTION IS ORMOND ST AND LOUDON RD.
  7. NO WETLAND BUFFERS, BLUFF SETBACKS, SHORLINE PROTECTION DISTRICT BUFFERS, AND AQUIFER PROTECTION AREAS.

**ZONING ANALYSIS**

TAX MAP/BLOCKLOT: MAP 631Z / LOT 5

ADDRESS: 111 LOUDON RD  
CONCORD, NH

ZONING DISTRICT: GENERAL COMMERCIAL (CG) DISTRICT  
USE: COMMERCIAL

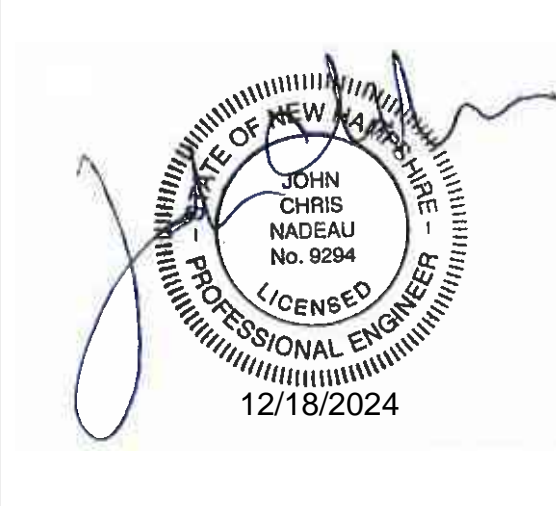
<b>MINIMUM LOT AREA</b>	PROVIDED
25,000 SF	33,632 SF (0.77 ACRES)
<b>MINIMUM LOT FRONTAGE</b>	PROVIDED
150'	130'
<b>MAXIMUM LOT COVERAGE</b>	PROVIDED
80%	22,474 SF (87%)
<b>BUILDING COVERAGE</b>	PROVIDED
	3,627 SF (11.0%)
<b>BUILDING SETBACKS REQUIRED</b>	PROVIDED
FRONT YARD	30'
SIDE YARD	25'
REAR YARD	30'
<b>PARKING SETBACKS REQUIRED</b>	PROVIDED
FRONT YARD	NO PARKING
SIDE YARD	5'
REAR YARD	15'

REQUIRED PARKING SPACES  
BANK WITH DRIVE THRU = 1 SPACE / 200 SF PLUS 5 STACKING SPACES PER WINDOW

TOTAL SPACES:	REQUIRED	PROPOSED
ACCESSIBLE SPACES:	19	19
COMPACT SPACES:	1	1

**SIGN SCHEDULE**

M.U.T.C.D. NUMBER	SPECIFICATION WIDTH	SPECIFICATION HEIGHT	MOUNTING HEIGHT	SIGN
R1-1	30"	30"	7'-0"	STOP
R7-8	12"	18"	7'-0"	RESERVED PARKING
R7-8A	12"	6"	6'-5"	VAN ACCESSIBLE
R8-3A	12"	18"	7'-0"	NO PARKING
BZ-RA	12"	18"	7'-0"	COMPACT CAR PARKING ONLY



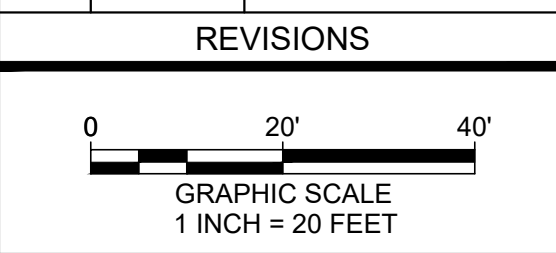
NOT ISSUED FOR CONSTRUCTION

**BANGOR SAVINGS BANK**

111 LOUDON ROAD  
CONCORD, NEW HAMPSHIRE

APPLICANT:  
BANGOR SAVINGS BANK  
P.O BOX 930  
BANGOR, ME 04402

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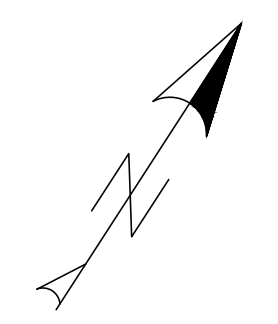


DATE: DEC 2024  
NOBIS PROJECT NO. 100165.00  
DRAWN BY: KLR  
CHECKED BY: JIR  
CAD DRAWING FILE:  
100165.00-C-200-SITE.dwg

SHEET TITLE

**PROPOSED SITE PLAN**

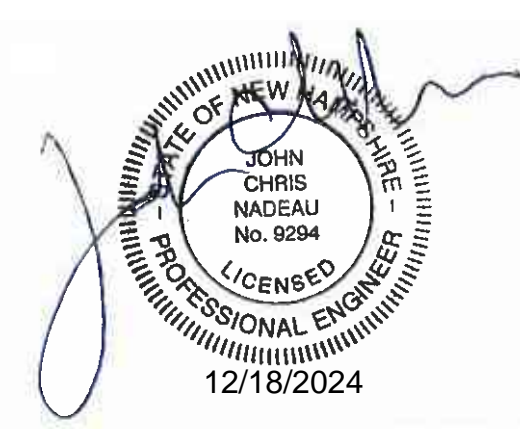
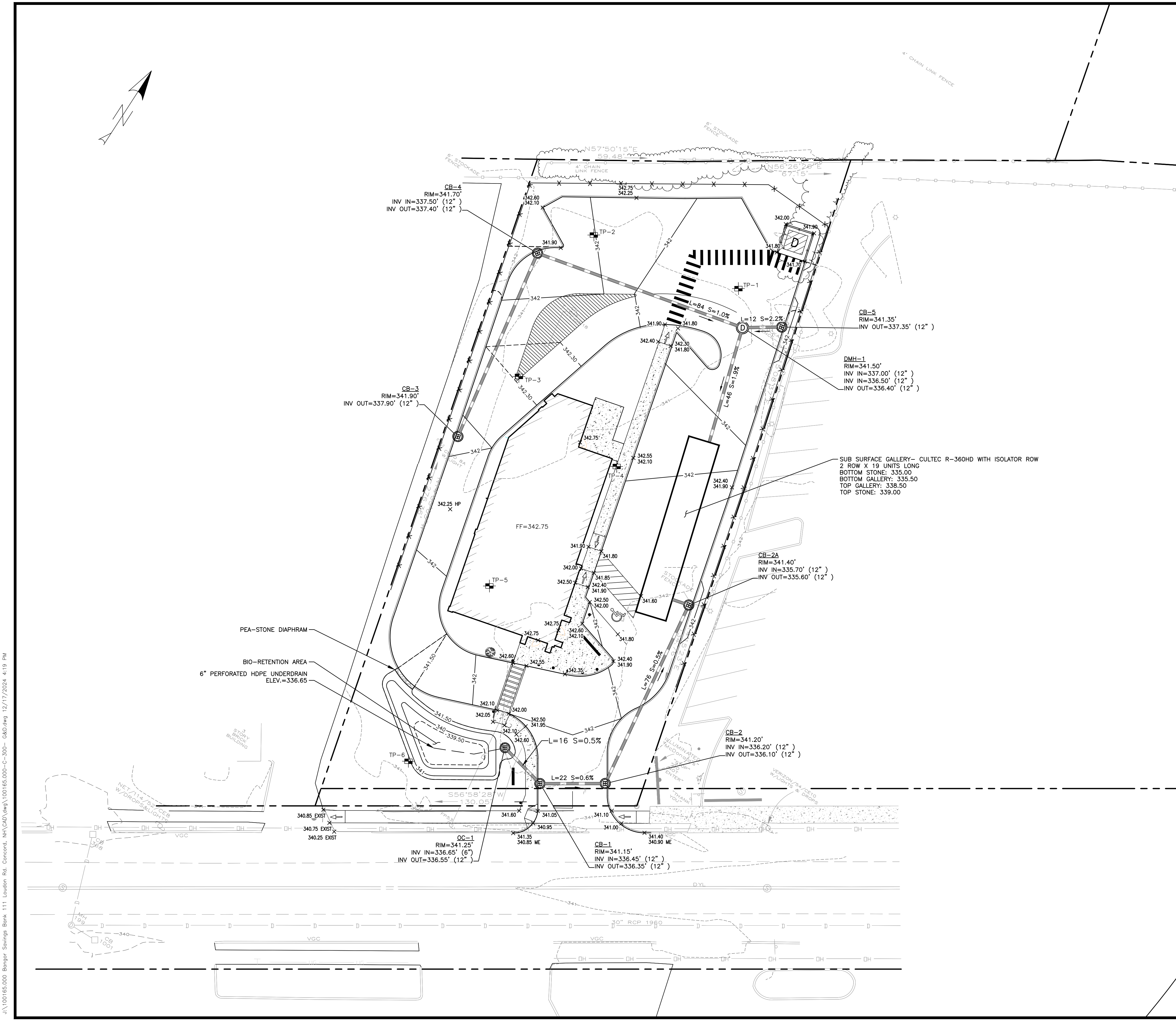
SHEET  
**C-2**



- NOTES:**
1. REFER TO SURVEYOR'S PLAN FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
  2. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
  3. CONTRACTOR WILL NOTIFY OWNER & ENGINEER IMMEDIATELY IF SITE CONDITIONS DIFFER FROM WHAT IS SHOWN ON PLAN.
  4. SPOT ELEVATIONS SHOWN AT BUILDING CORNERS ARE PROPOSED GROUND ELEVATIONS.
  5. FINISH WALK AND CURB ELEVATIONS WILL BE 6" ABOVE FINISH PAVEMENT.
  6. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAK.
  7. LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
  8. ALL WORK ON SITE, ALL UTILITY WORK AND ALL WORK WITH CITY R.O.W. WILL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CONCORD SPECIFICATIONS, LATEST EDITION.
  9. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING DIG SAFE (1-888-DIG-SAFE) AT LEAST 72 HOURS PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL COORDINATE WORK WITH THE CITY FIRE, POLICE, AND COMMUNITY DEVELOPMENT DEPARTMENTS.
  10. ALL STORM DRAIN PIPING WITH LESS THAN 3.0 FEET OF COVER WILL BE OVERLAID WITH 2" THICK RIGID INSULATION FOR THE FULL WIDTH OF PIPE TRENCH.
  11. REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.
  12. CONTRACTOR TO VERIFY SOIL TYPE AND DEPTH TO GROUNDWATER PRIOR TO THE INSTALLATION OF SUBSURFACE GALLERIES.
  13. PROPOSED CATCH BASIN ARE DEEP SUMP CATCH BASINS WITH A 3' DEEP SUMP.

**DRAINAGE SCHEDULE**

CB-1 RIM = 341.15 INV. IN = 336.55 INV. OUT = 337.45 (TO CB-2) L = 22' S = 0.6%	CB-4 RIM = 341.70 INV. IN = 337.50 INV. OUT = 337.40 (TO DMH-1) L = 86' S = 1.0%
CB-2 RIM = 341.20 INV. IN = 336.20 INV. OUT = 336.10 (TO CB-2A) L = 70' S = 0.7%	CB-5 RIM = 341.35 INV. OUT = 337.35 (TO DMH-1) L = 16' S = 2.2%
CB-2A RIM = 341.40 INV. IN = 335.70 INV. OUT = 335.60 L = 7' S = 1.4%	DMH-1 RIM = 341.50 INV. IN = 336.50 INV. IN = 337.00 INV. OUT = 336.40 (TO DMH-1) L = 52' S = 1.7%
CB-3 RIM = 341.90 INV. OUT = 337.90 (TO CB-4) L = 84' S = 0.5%	

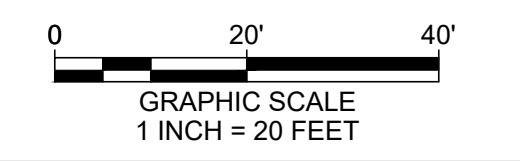


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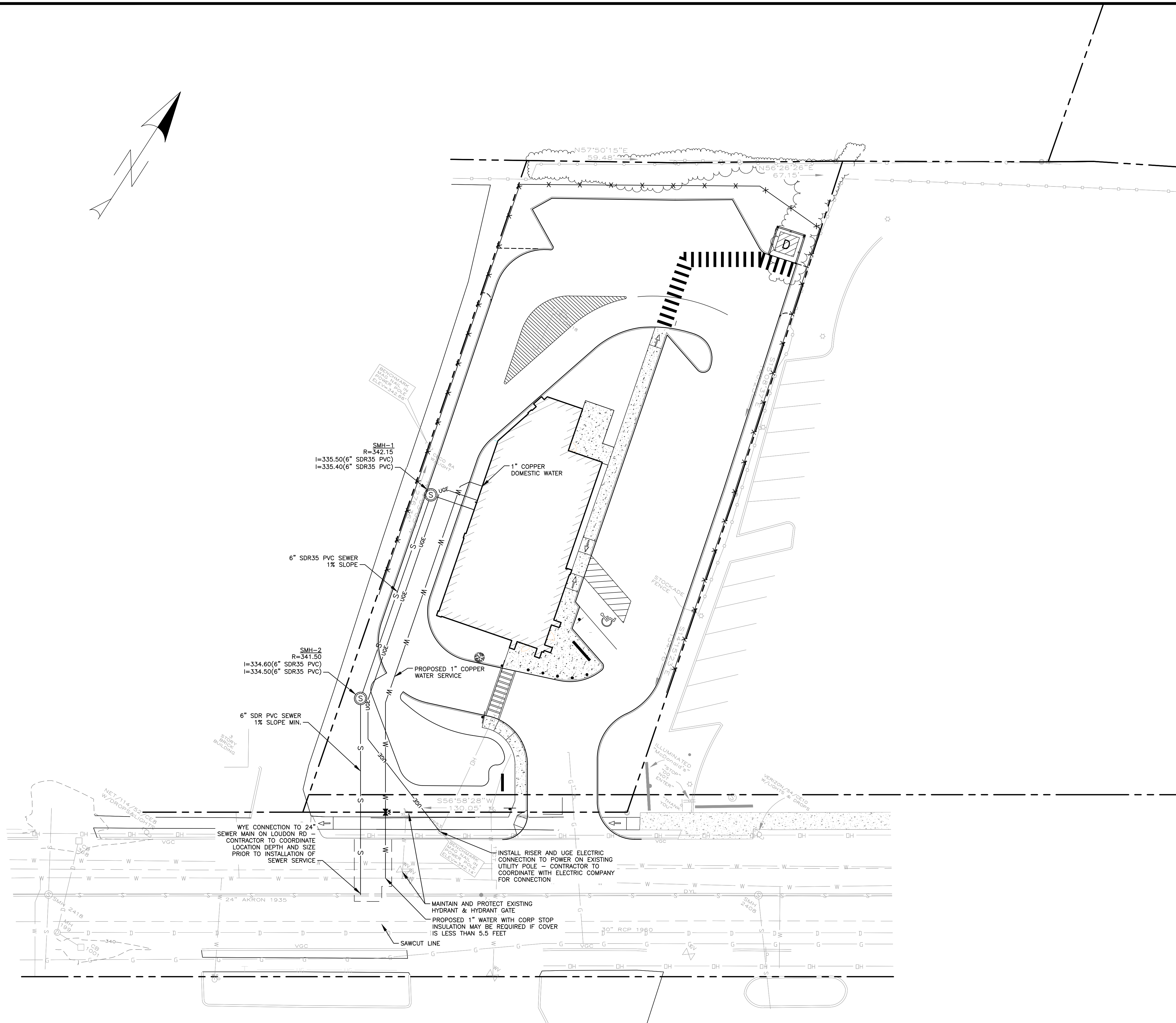
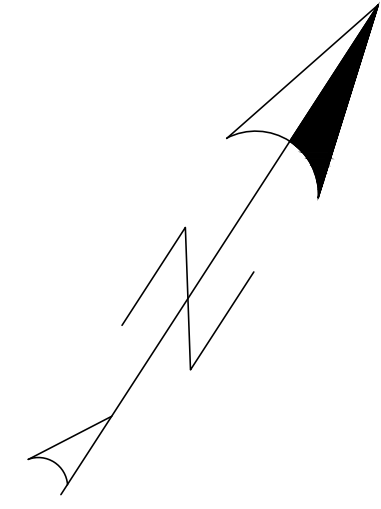
NO.	DATE	DESCRIPTION
REVISIONS		



DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-C-300-G&D.dwg

**GRADING &  
DRAINAGE**

SHEET  
**C-3**

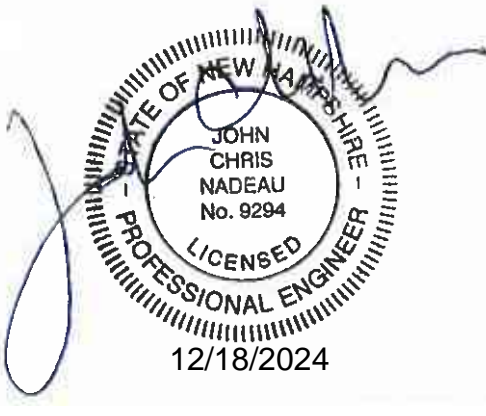
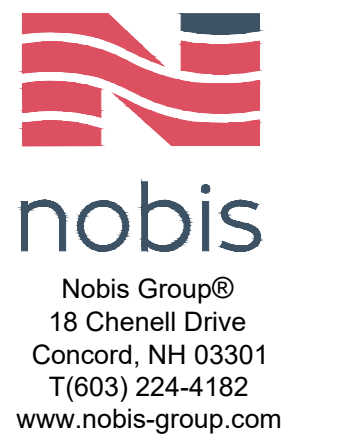


- NOTES:**
- REFER TO SURVEYOR'S PLAN, FOR BASE PLAN REFERENCES AND ADDITIONAL NOTES.
  - ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE SURVEY PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
  - THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. CALL 1-888-DIGSAFE AT LEAST THREE BUSINESS DAYS BEFORE PERFORMING ANY CONSTRUCTION.
  - LOCATIONS AND ELEVATIONS OF UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORDS FROM THE UTILITY COMPANIES AND FIELD MEASUREMENTS OF VISIBLE STRUCTURES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION AND WILL NOTIFY ENGINEER AND OWNER IMMEDIATELY OF ANY CONFLICTS.
  - THERE WILL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER OR SEWER APPURTENANCE WHICH WOULD PERMIT THE PASSAGE OF SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO WATER PIPE WILL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE. NO SEWER WILL BE LOCATED WITHIN THE WELL PROTECTIVE RADI ESTABLISHED IN ENH-VIS 300 FOR ANY PUBLIC WATER SUPPLY WELLS OR WITHIN 100 FEET OF ANY PRIVATE WATER SUPPLY WELL. SEWERS WILL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. A DEVIATION FROM THE SEPARATION REQUIREMENTS WILL BE ALLOWED WHERE NECESSARY TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITY CHAMBERS, AND BUILDING FOUNDATIONS, PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENTS SPECIFIED IN ENV-WQ 704.06. WHENEVER SEWERS MUST CROSS WATER MAINS, THE SEWER WILL BE CONSTRUCTED AS FOLLOWS:
    - VERTICAL SEPARATION OF THE SEWER AND WATER MAIN WILL BE NOT LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
    - SEWER PIPE JOINTS WILL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.
  - THE CONTRACTOR WILL PROVIDE A MINIMUM NOTICE OF FOURTEEN (14) DAYS TO ALL CORPORATIONS, COMPANIES AND/OR LOCAL AUTHORITIES OWNING OR HAVING A JURISDICTION OVER UTILITIES RUNNING TO, THROUGH OR ACROSS PROJECT AREAS PRIOR TO DEMOLITION AND/OR CONSTRUCTION ACTIVITIES.
  - THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES WILL BE TO THE STANDARDS AND REQUIREMENTS OF THE RESPECTIVE UTILITY COMPANY (ELECTRIC, TELEPHONE, CABLE TELEVISION, FIRE ALARM, GAS, WATER, AND SEWER).
  - ALL CONSTRUCTION WILL CONFORM TO THE CITY OF CONCORD AND REGULATIONS, UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION ACTIVITIES WILL CONFORM TO LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) RULES AND REGULATIONS.
  - THE CONTRACTOR IS TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITY STUBS PRIOR TO CONSTRUCTION AND DISCONNECT ALL EXISTING SERVICE CONNECTIONS AT THEIR RESPECTIVE MAINS IN ACCORDANCE WITH THE RESPECTIVE UTILITY COMPANY'S STANDARDS AND SPECIFICATIONS. ENGINEER TO BE NOTIFIED.
  - AS-BUILT PLANS WILL BE SUBMITTED TO ENGINEERING SERVICES.
  - INVERTS AND SHELVES: MANHOLES WILL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW AT CHANGES IN DIRECTION. THE INVERTS WILL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES WILL BE CONSTRUCTED TO MATCH THE HIGHEST PIPE CROWN, AND SHELF WILL CONSIST OF GRADE SS HARD BRICK MASONRY.
  - FRAMES AND COVERS: MANHOLE FRAMES AND COVERS WILL BE OF HEAVY DUTY DESIGN AND PROVIDE A 30 INCH DIA. CLEAR OPENING. THE WORD "SEWER" WILL BE CAST INTO THE CENTER OF THE UPPER FACE OF EACH COVER WITH RAISED, 3" LETTERS.
  - SHALLOW MANHOLE: IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED HAVING AN ECCENTRIC ENTRANCE OPENING AND CAPABLE OF SUPPORTING H20 LOADS.
  - CONTRACTOR WILL PLACE 2" WIDE METAL WIRE IMPREGATED GREEN PLASTIC WARNING TAPE OVER ENTIRE LENGTH OF ALL GRAVITY SEWERS, SERVICES, AND FORCE MAINS.
  - ALL SANITARY STRUCTURE INTERIOR DIAMETERS (4" MIN) WILL BE DETERMINED BY THE MANUFACTURER BASED ON THE PIPE CONFIGURATIONS SHOWN ON THESE PLANS.
  - PROPOSED RIM ELEVATIONS OF SANITARY MANHOLES ARE APPROXIMATE. FINAL ELEVATIONS ARE TO BE SET FLUSH WITH FINISH GRADES. ADJUST ALL OTHER RIM ELEVATIONS OF MANHOLES, WATER GATES, GAS GATES AND OTHER UTILITIES TO FINISH GRADE.
  - DIMENSIONS ARE SHOWN TO CENTERLINE OF PIPE OR FITTING.
  - ALL GRAVITY SEWER PIPE, MANHOLES, AND FORCE MAINS WILL BE TESTED ACCORDING TO NHDES STANDARDS OF DESIGN AND CONSTRUCTION FOR SEWAGE AND WASTEWATER TREATMENT FACILITIES, CHAPTER ENV-WQ 700, CONFORMING TO THE FOLLOWING MIN. CRITERIA:
 

**ENV-WQ 704.06 GRAVITY SEWER PIPE TESTING:**  
GRAVITY SEWERS WILL BE TESTED FOR WATER TIGHTNESS BY USE OF LOW-PRESSURE AIR TESTS CONFORMING WITH ASTM F1417-92(2005) OR UNI-BELL PIPE ASSOCIATION UNI-B-6. LINES WILL BE CLEANED AND VISUALLY INSPECTED USING A LAMP TEST AND BY INTRODUCING WATER TO DETERMINE THAT THERE IS NO STANDING WATER IN THE SEWER, AND TRUE TO LINE AND GRADE FOLLOWING INSTALLATION AND PRIOR TO USE. DEFLECTION TESTS WILL TAKE PLACE NOT LESS THAN 30 DAYS NOR MORE THAN 90 DAYS FOLLOWING INSTALLATION. THE MAXIMUM ALLOWABLE DEFLECTION OF FLEXIBLE SEWER PIPE SHALL BE 5% PERCENT OF AVERAGE INSIDE DIAMETER OR MANHOLE WITH A DIAMETER OF AT LEAST 95% OF THE AVERAGE INSIDE PIPE DIAMETER SHALL BE USED FOR TESTING PIPE DEFLECTION. THE DEFLECTION TEST SHALL BE CONDUCTED WITHOUT MECHANICAL PULLING DEVICES.

**ENV-WQ 704.09 FORCE MAIN AND PRESSURE SEWER TESTING:**  
WILL BE TESTED IN ACCORDANCE WITH SECTION 4 OF AWWA C600-05, AND AT A PRESSURE EQUAL TO THE GREATER OF 150 PERCENT OF THE DESIGN OPERATING TOTAL DYNAMIC HEAD OR AT LEAST 100 PSI.

**ENV-WQ 704.17 SEWER MANHOLES:**  
WILL BE TESTED FOR LEAKAGE USING A VACUUM TEST. TESTING WILL BE CONDUCTED PRIOR TO PLACEMENT OF SHELVES AND INVERTS.
  - SEWERS WILL BE BURIED TO A MINIMUM DEPTH OF 6 FEET BELOW GRADE IN ALL ROADWAY LOCATIONS, AND TO A MINIMUM DEPTH OF 4 FEET BELOW GRADE IN ALL CROSS-COUNTRY LOCATIONS. A NHDES WAIVER IS NEEDED IF THE MINIMUM REQUIRED DEPTH CANNOT BE MET.
  - SEWER AND WATER INFRASTRUCTURE ON PRIVATE PROPERTY IS TO REMAIN PRIVATE, HOWEVER, THE CITY RESERVES THE RIGHT TO ENTER THE PROPERTY IN ORDER TO INSPECT, REPAIR AND/OR TERMINATE INDIVIDUAL SEWER OR WATER SERVICES (AT OWNER'S EXPENSE).
  - SERVICE LATERAL LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED IN THE FIELD BASED ON INPUT FROM CITY INSPECTOR AND/OR PROJECT CLERK OF THE WORKS.
  - REFER TO SHEET G-1 FOR GENERAL NOTES AND LEGEND.

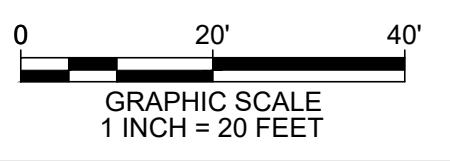


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FOR  
CONSTRUCTION

**BANGOR SAVINGS BANK**  
111 LOUDON ROAD  
CONCORD, NEW HAMPSHIRE

APPLICANT:  
BANGOR SAVINGS BANK  
P.O BOX 930  
BANGOR, ME 04402

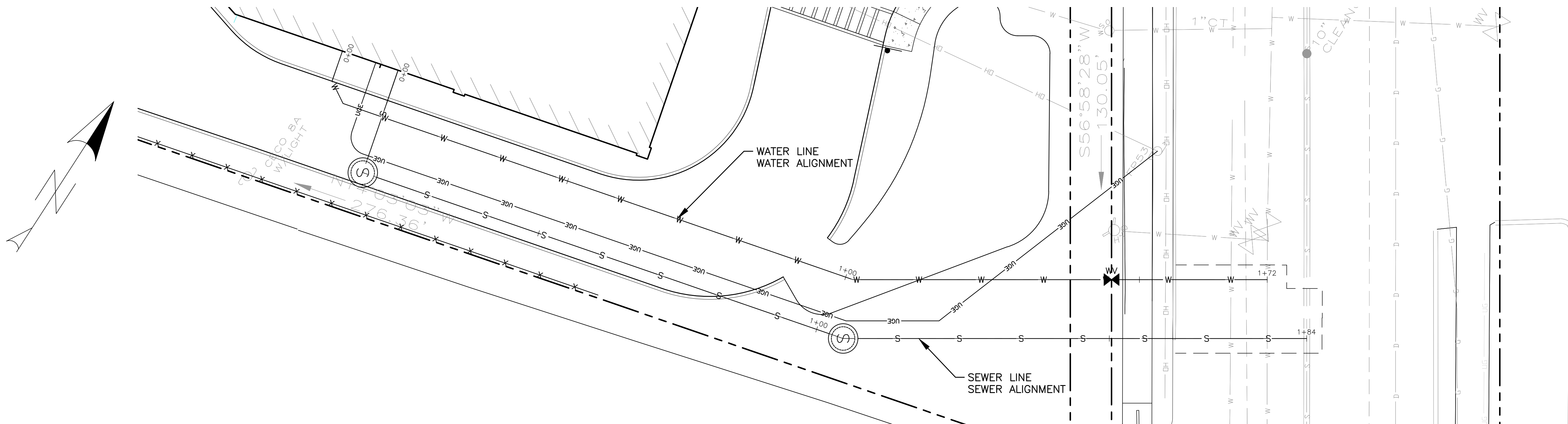
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REVISIONS		



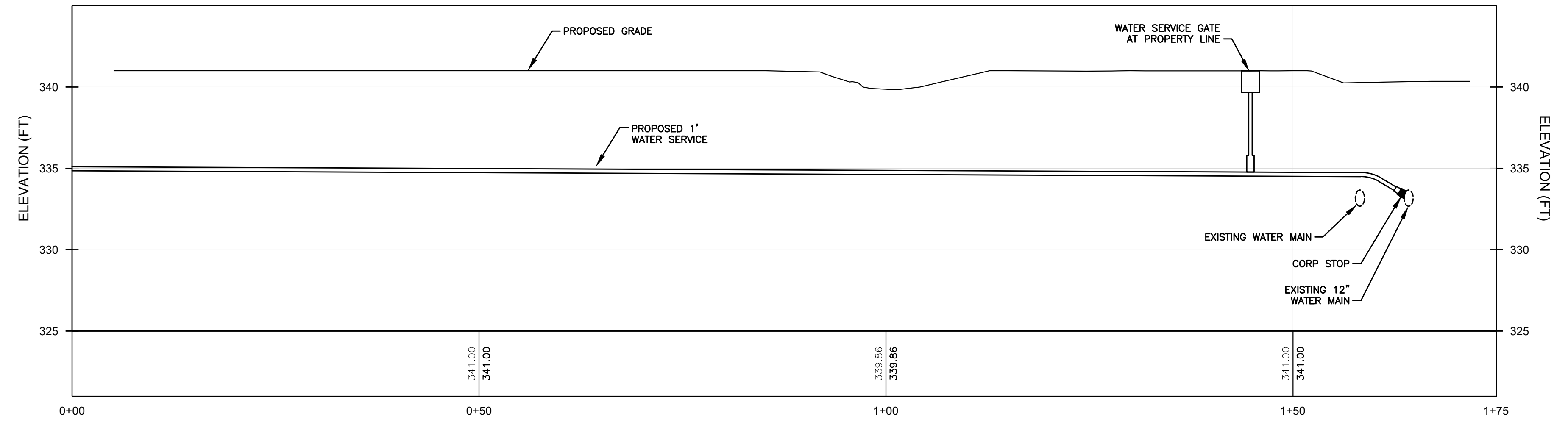
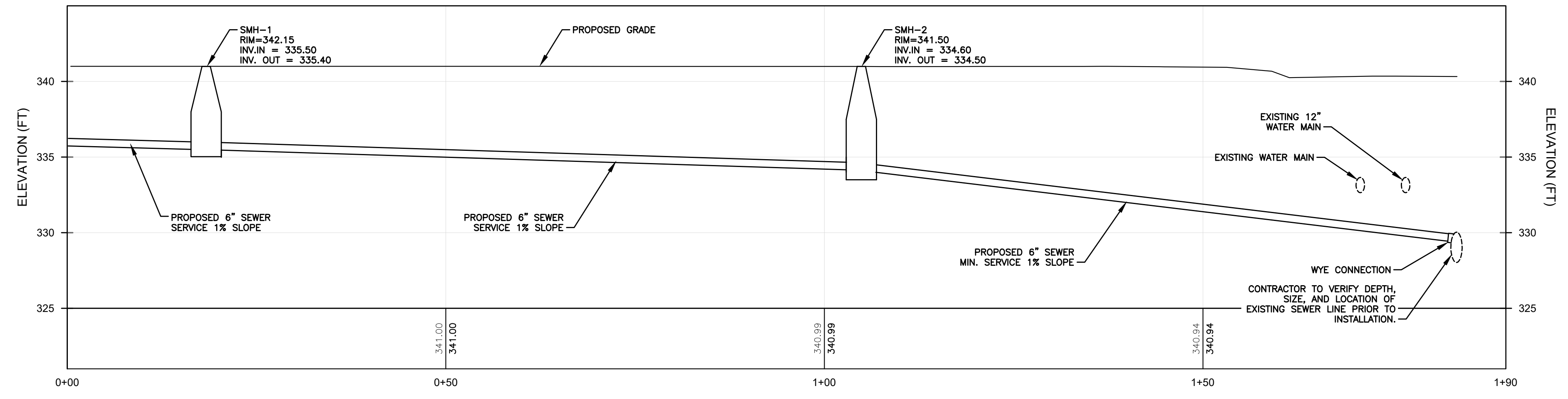
DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-C-400-UTILITY.dwg
SHEET TITLE	

**UTILITY LAYOUT PLAN**

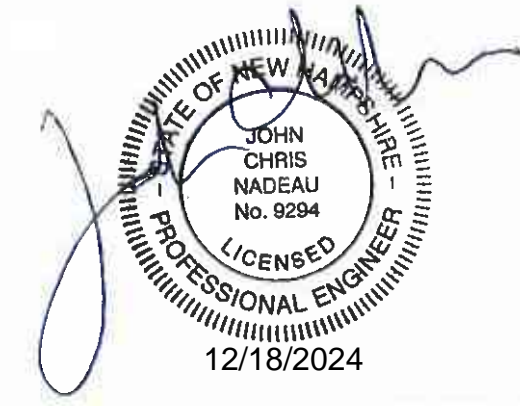
SHEET  
**C-4**



**SANITARY SEWER PLAN:  
5+50 TO 9+85**  
HORIZ. SCALE: 1" = 40'  
VERT. SCALE: 1" = 4'



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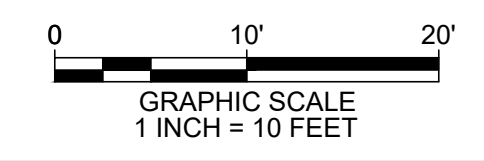
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BANGOR, ME 04402

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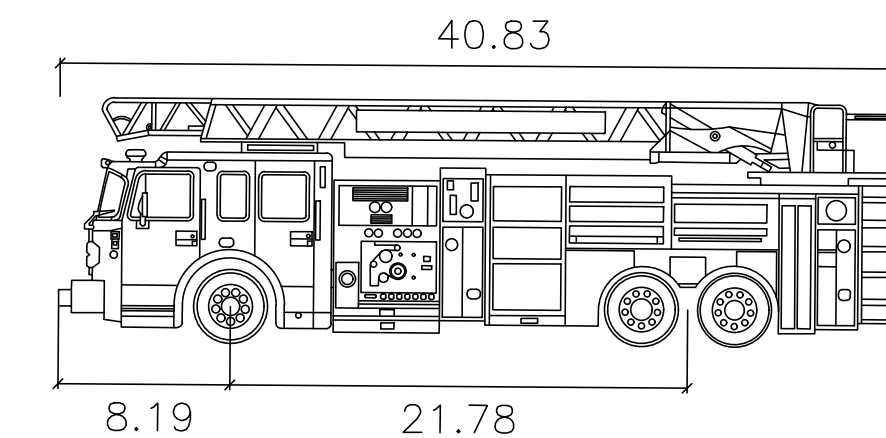
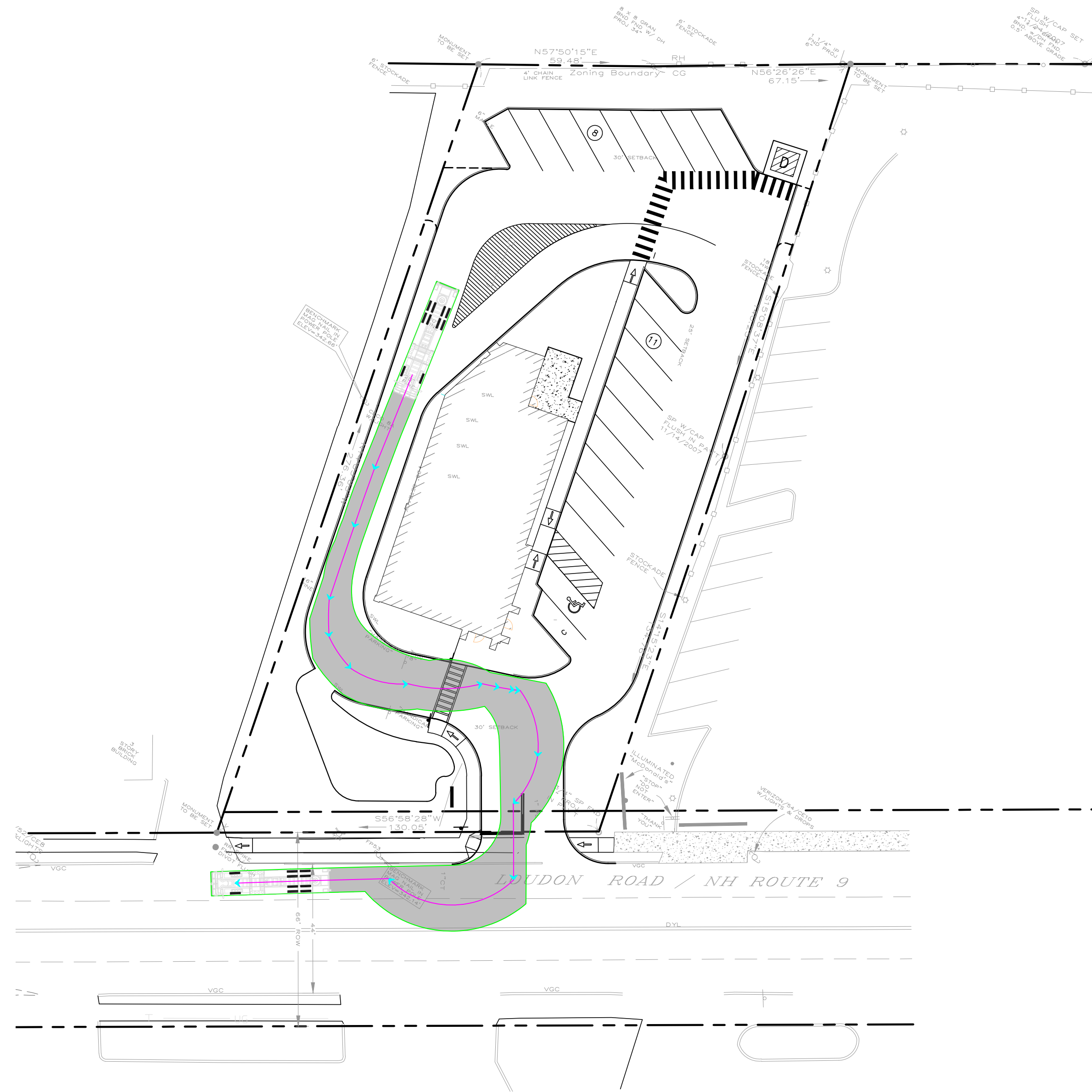
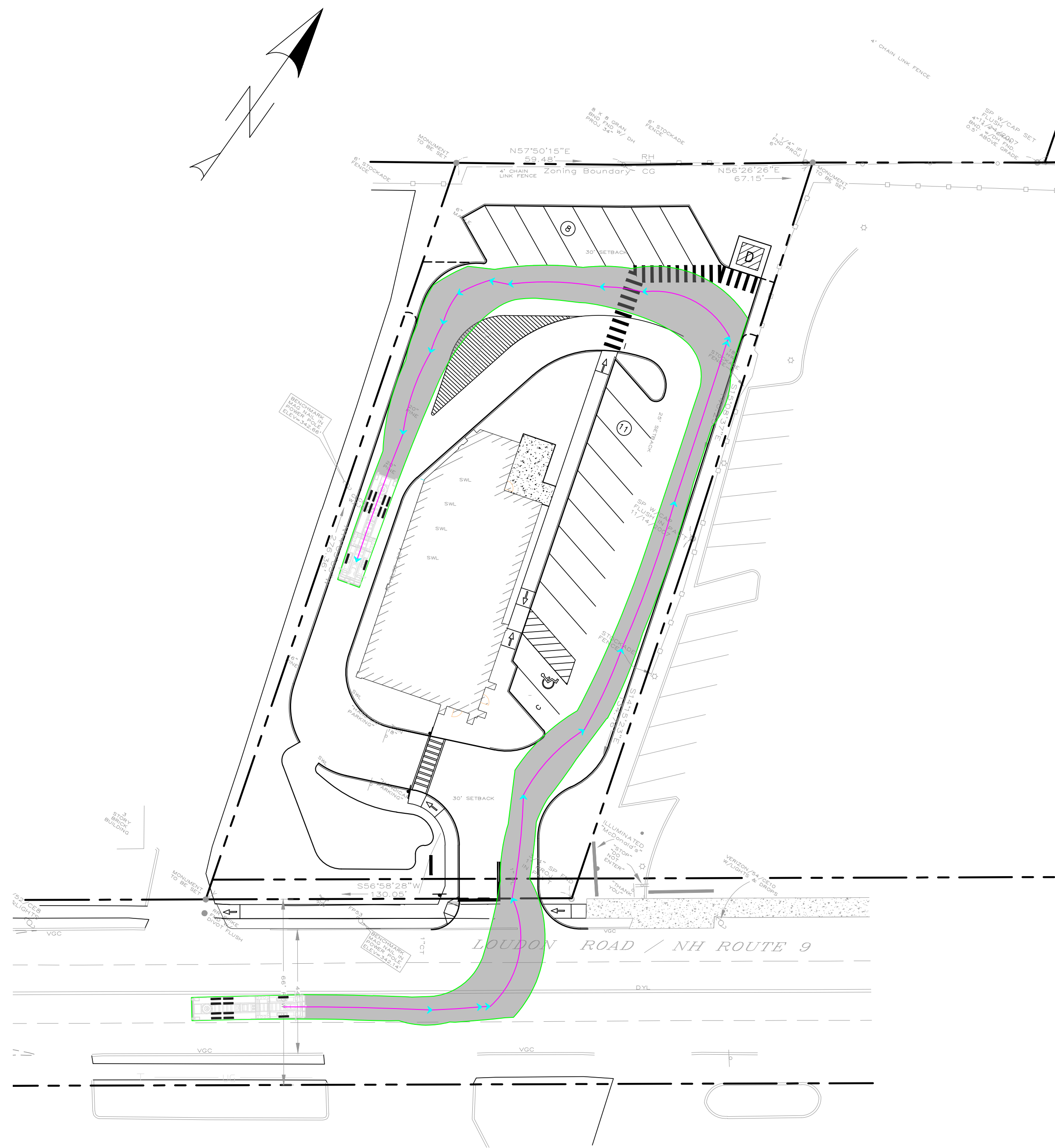
SHEET TITLE  
**UTILITY CROSSING PLANS AND PROFILES**

SHEET  
**C-4.1**

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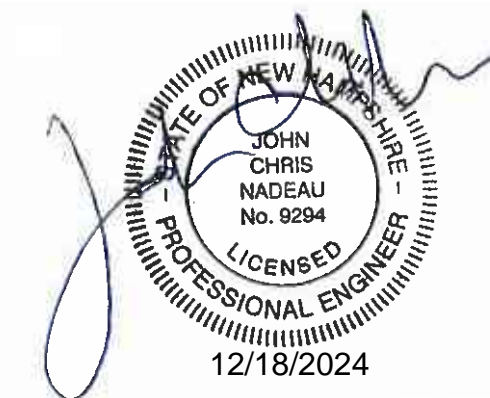


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Concord Ladder Truck  
 Width : 8.25  
 Track : 7.87  
 Lock to Lock Time : 6.0  
 Steering Angle : 46.3

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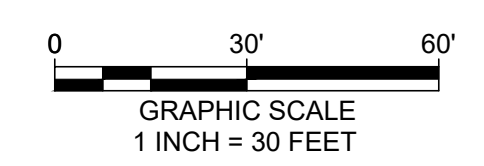
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NO.	DATE	DESCRIPTION
REVISIONS		

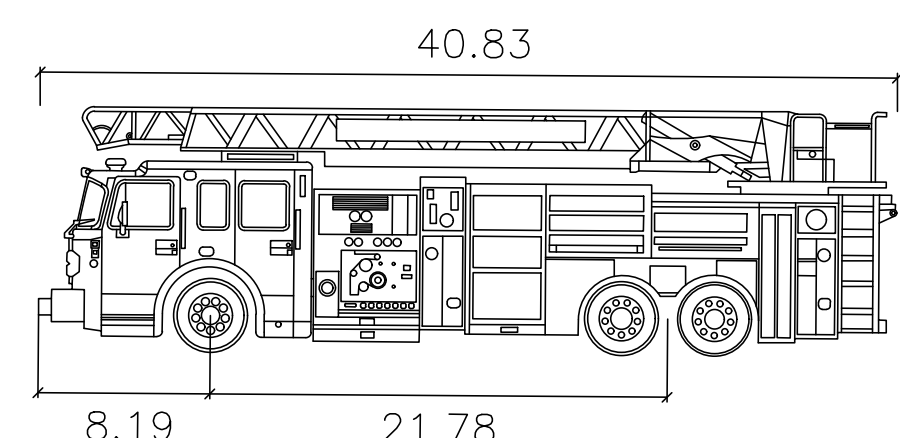
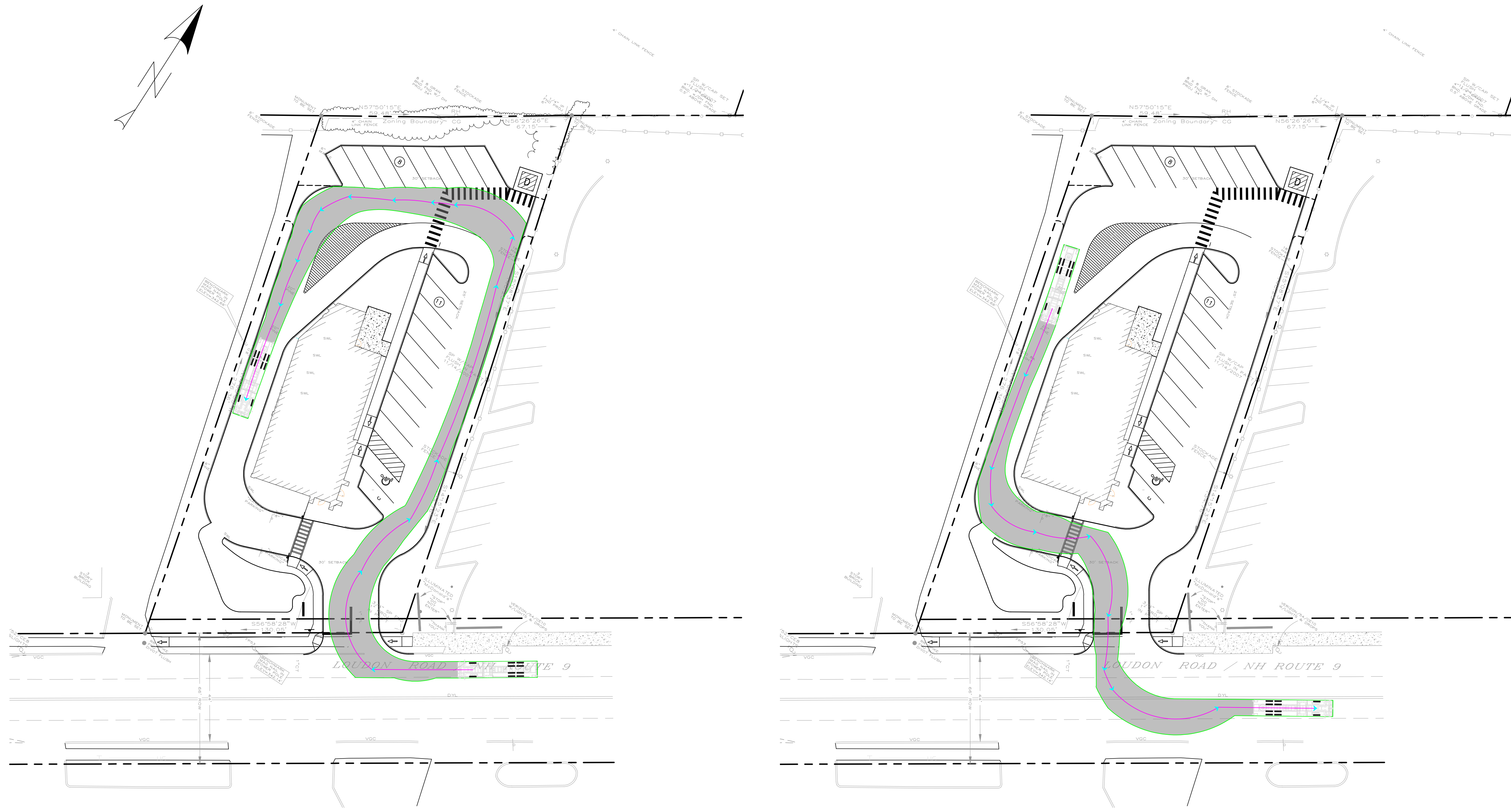


DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-TRUCK TURNING MOTION PLAN
SHEET TITLE	

**FIRE TRUCK  
 TURNING PLAN**

SHEET  
**C-5**

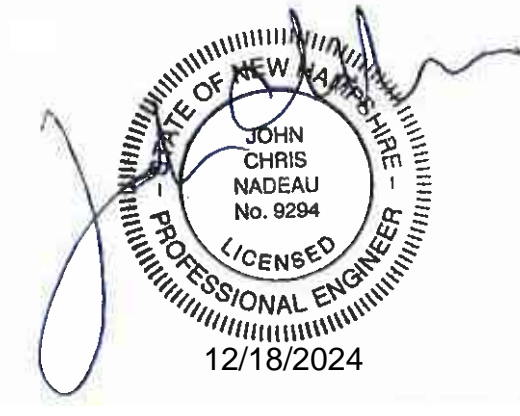
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Concord Ladder Truck  
 Width : 8.25 feet  
 Track : 7.87  
 Lock to Lock Time : 6.0  
 Steering Angle : 46.3



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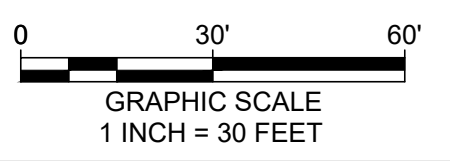
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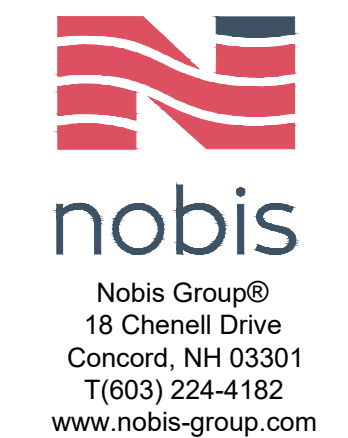
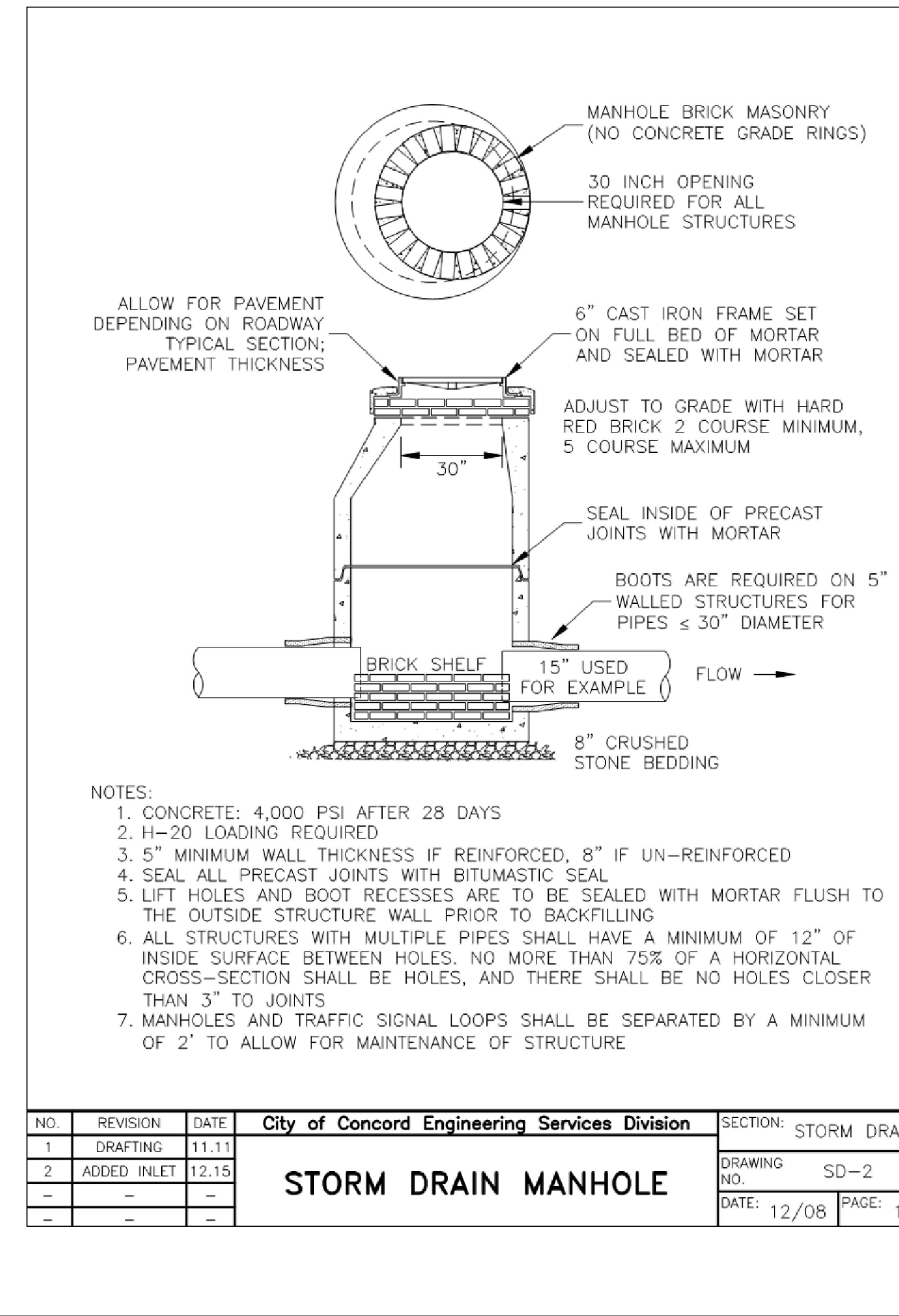
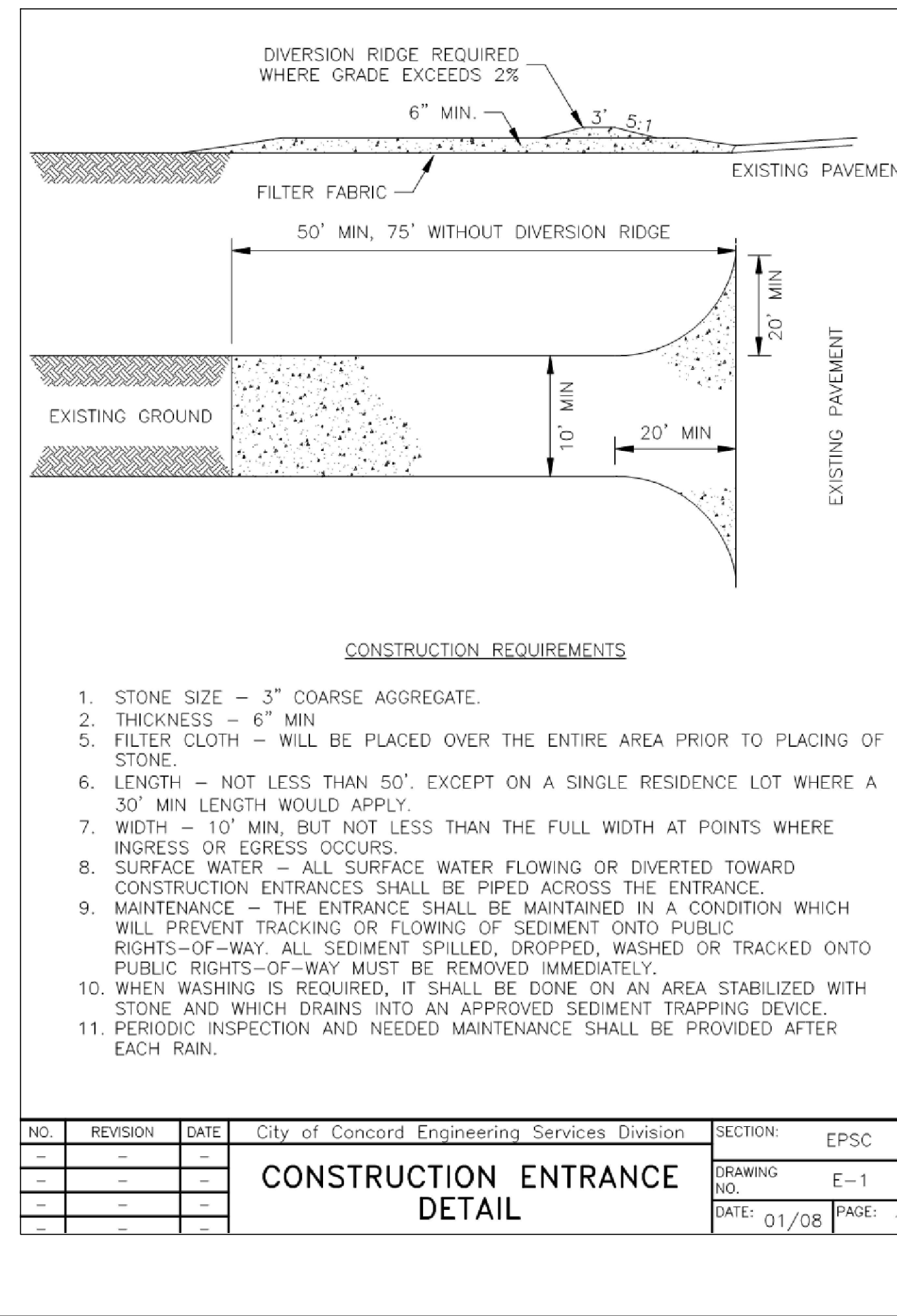
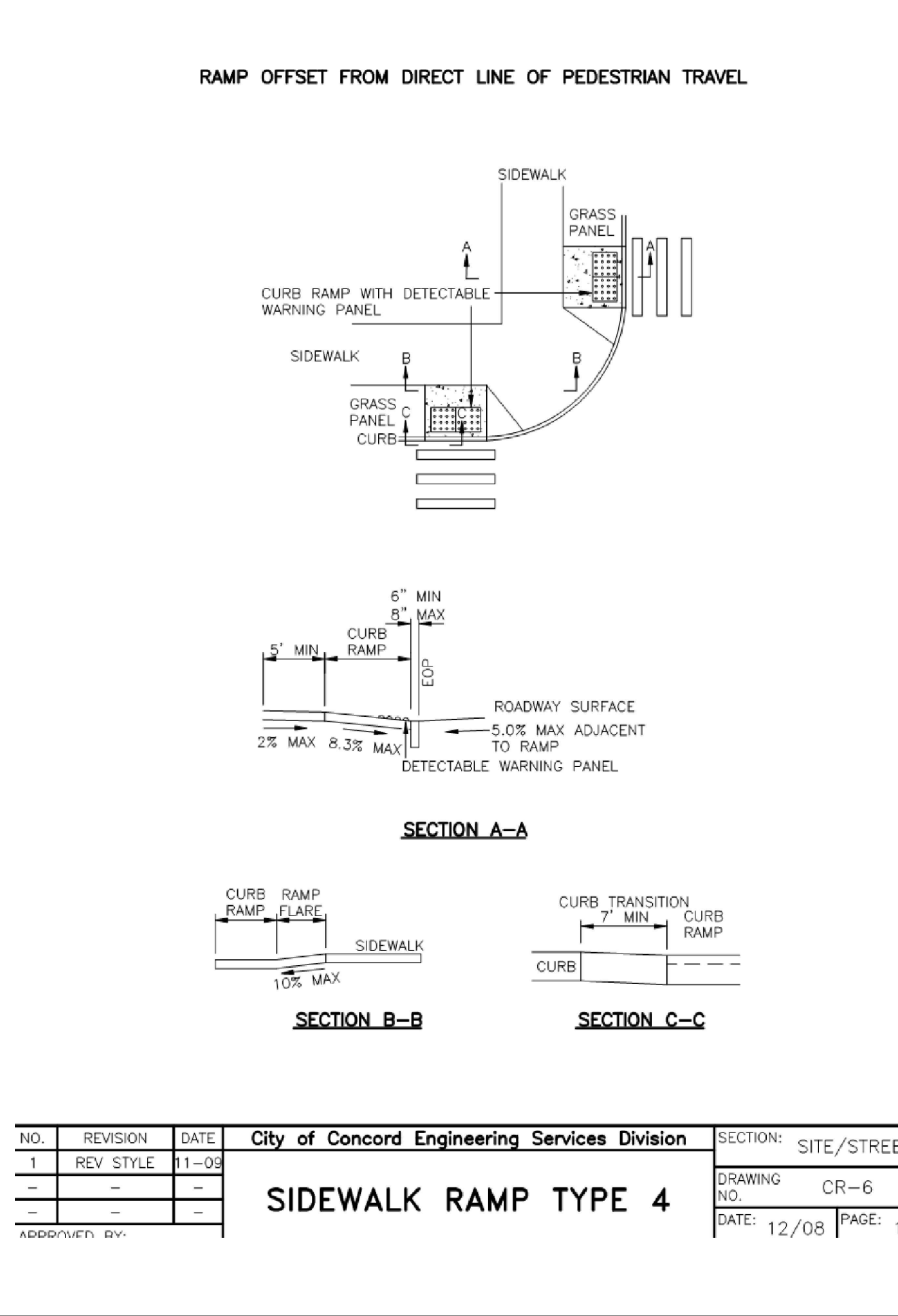
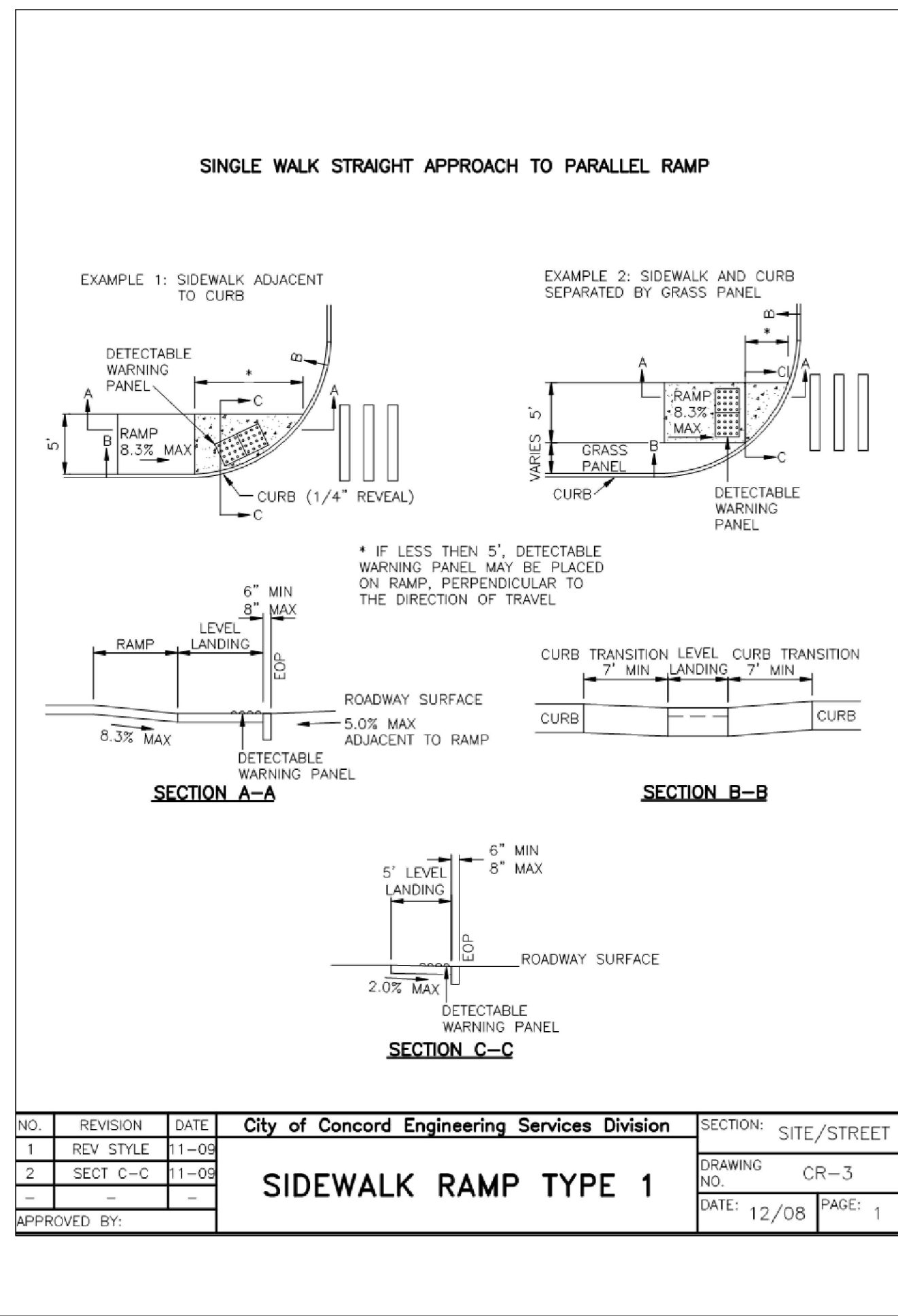
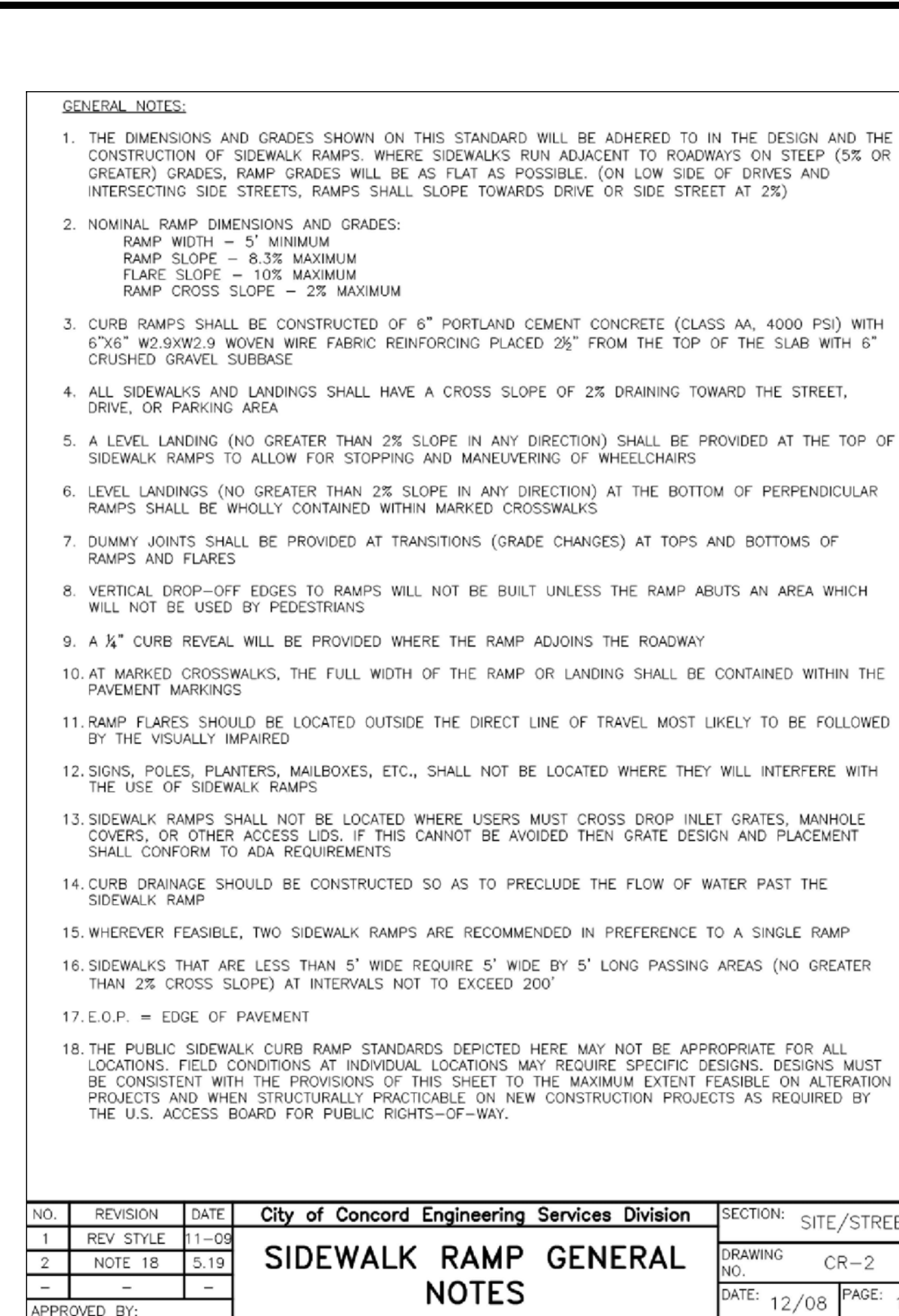
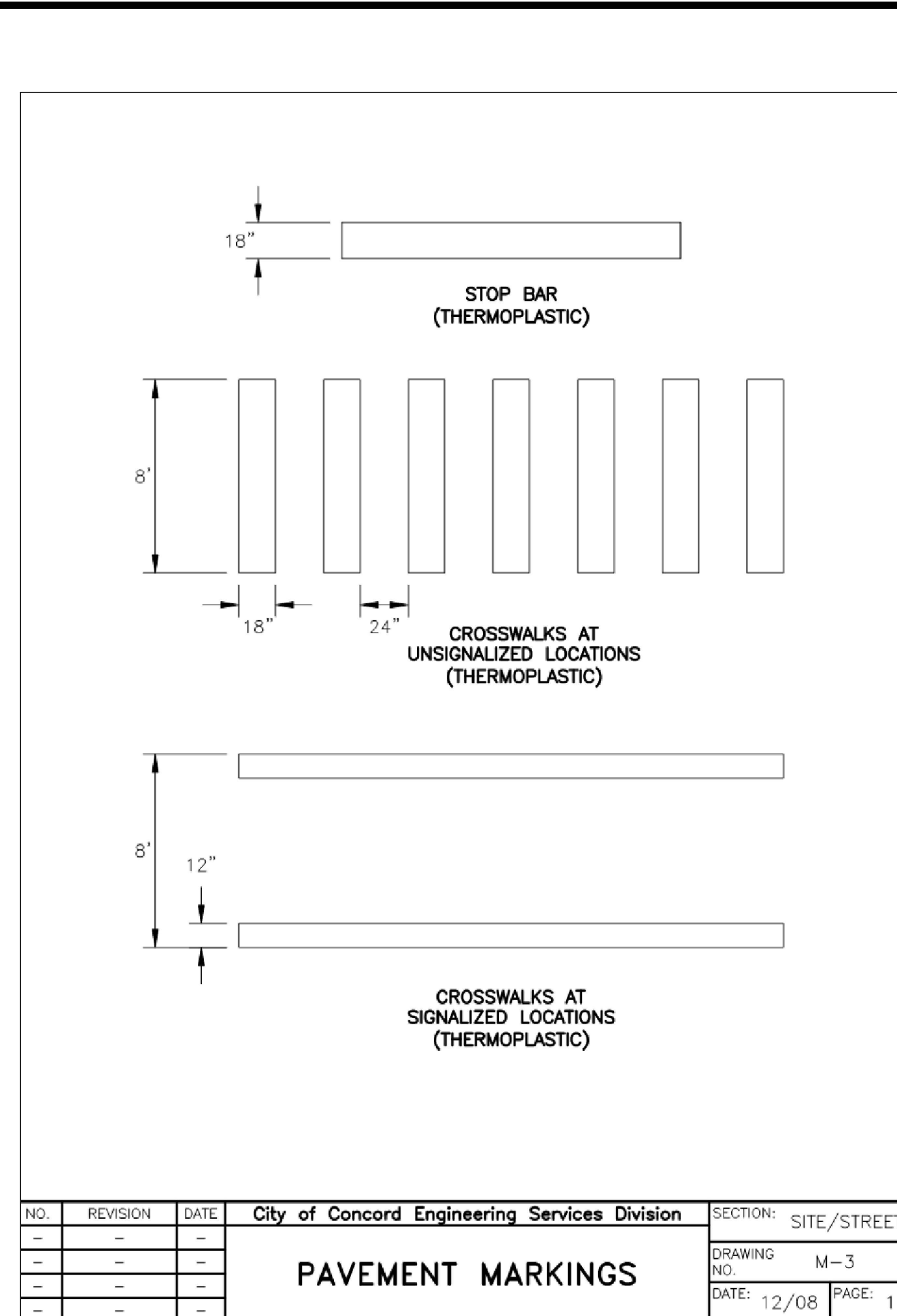
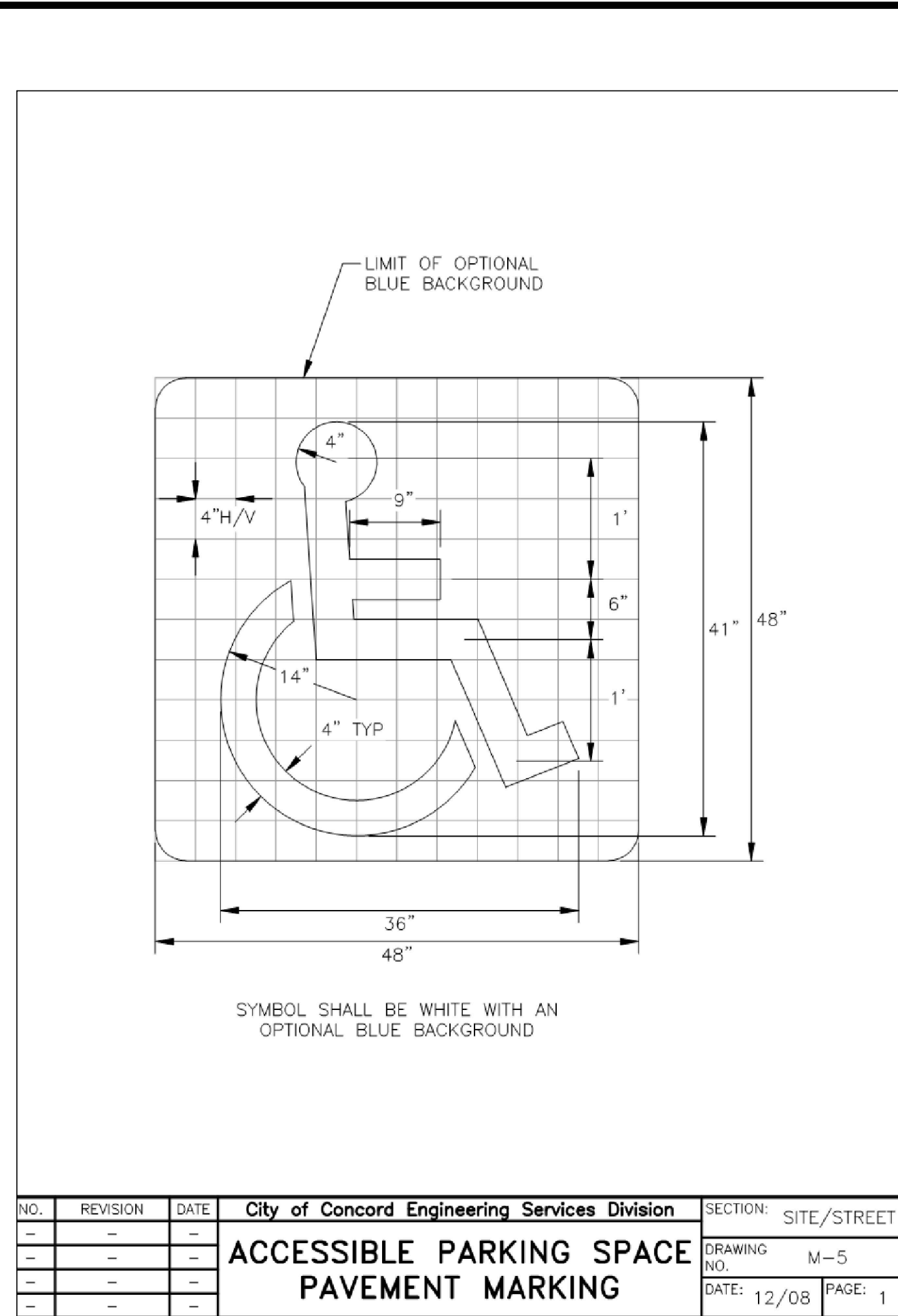
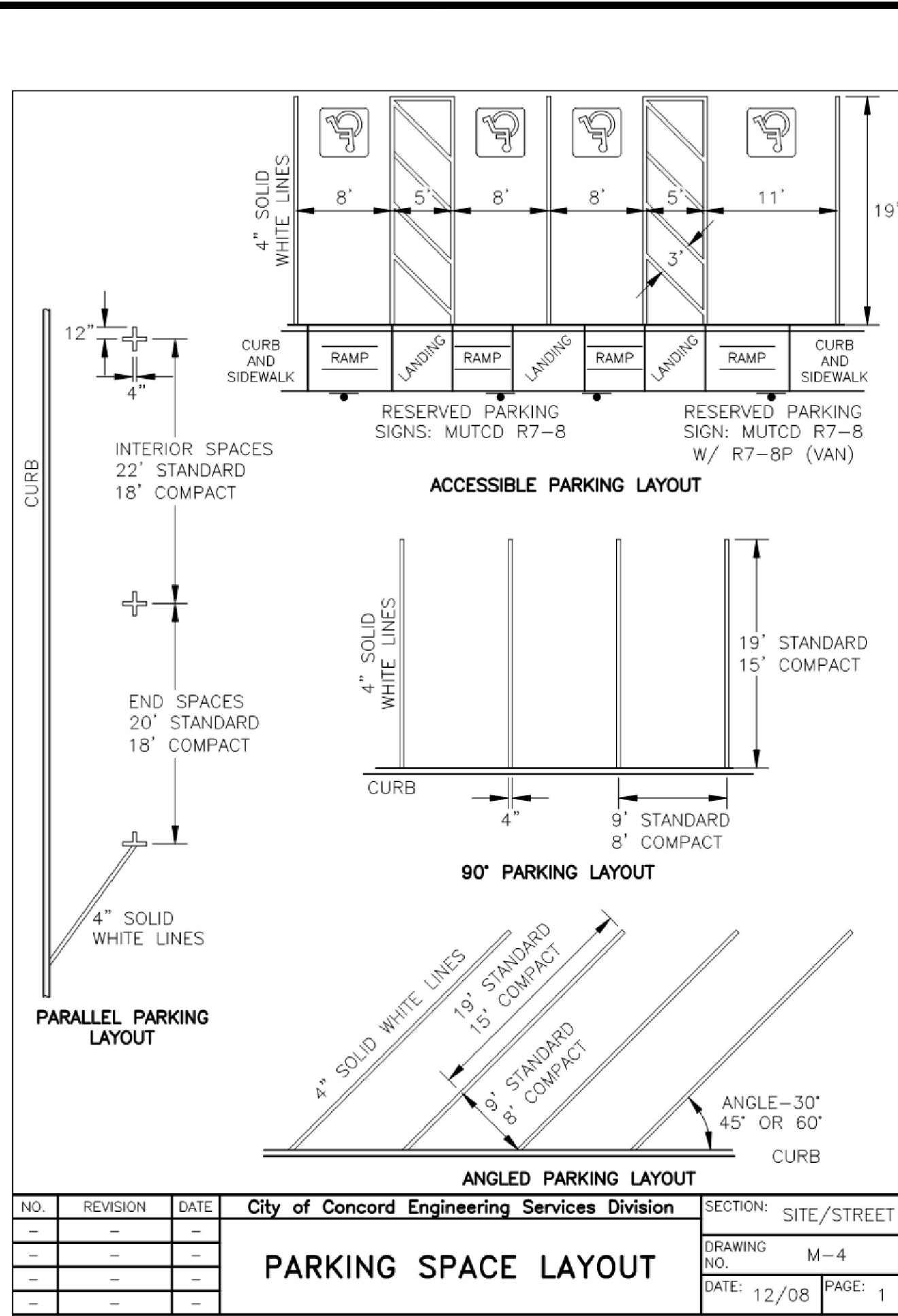
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REVISIONS		



DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
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SHEET TITLE	

**FIRE TRUCK  
 TURNING PLAN**

SHEET  
**C-5.1**



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BANGOR, ME 04402

NO.	DATE	DESCRIPTION

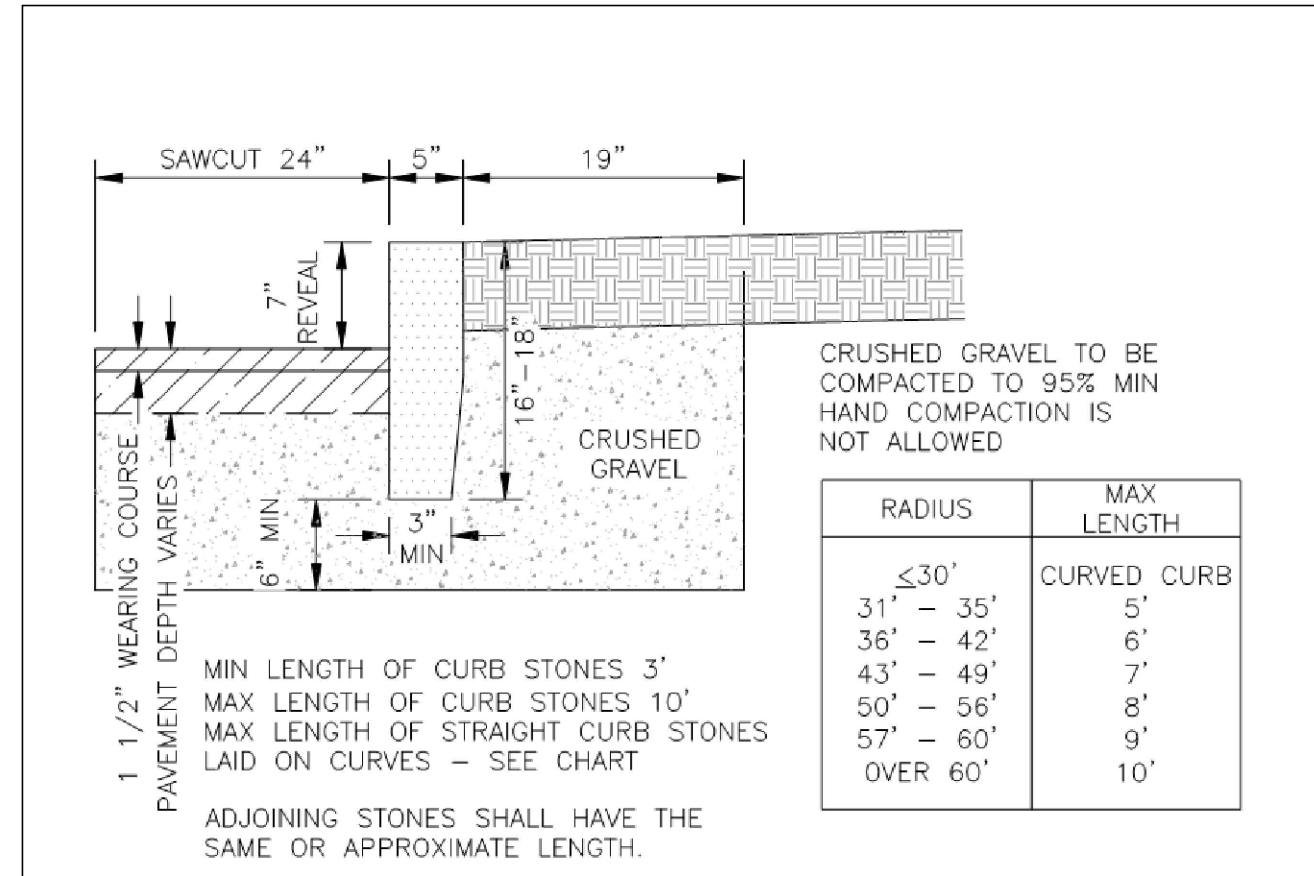
SCALE: AS NOTED

DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-C-700-DETAILS.dwg
SHEET TITLE	

**CONSTRUCTION DETAILS**

SHEET C-6

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CRUSHED GRAVEL TO BE COMPACTED TO 95% MIN HAND COMPACTION IS NOT ALLOWED

MIN LENGTH OF CURB STONES 3'  
MAX LENGTH OF CURB STONES 10'  
MAX LENGTH OF STRAIGHT CURB STONES LAID ON CURVES - SEE CHART

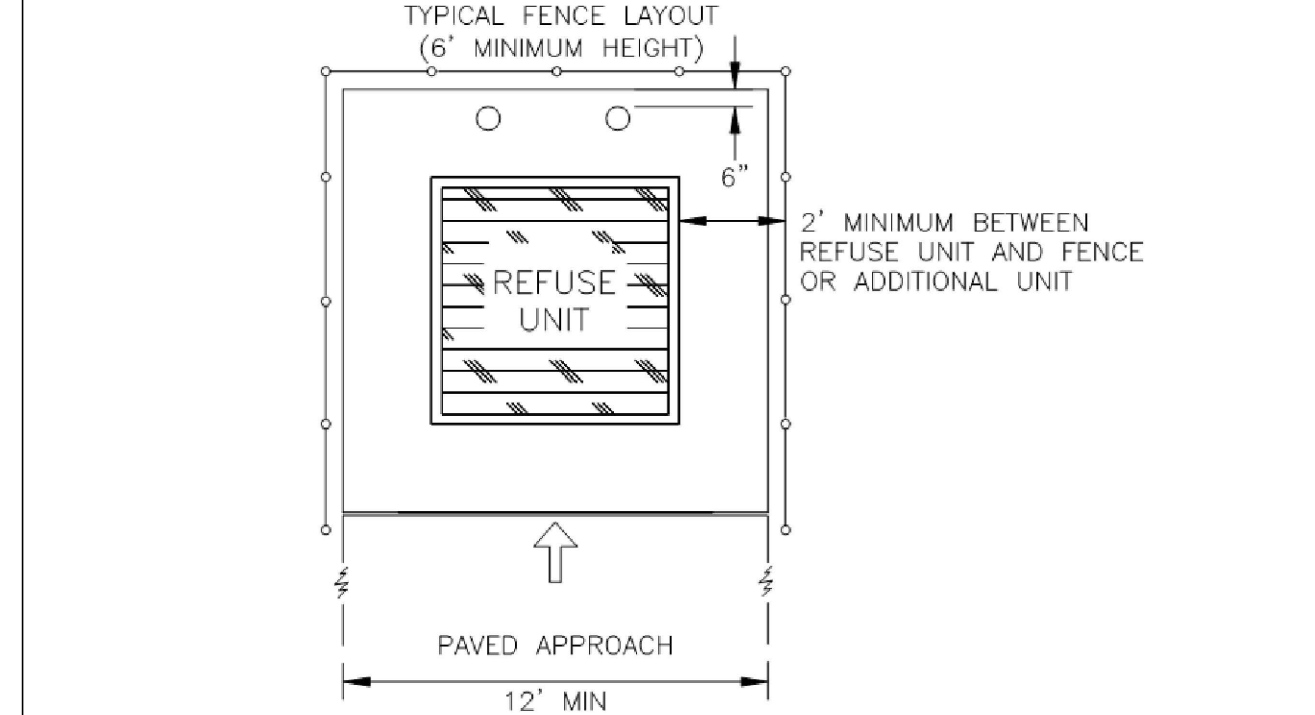
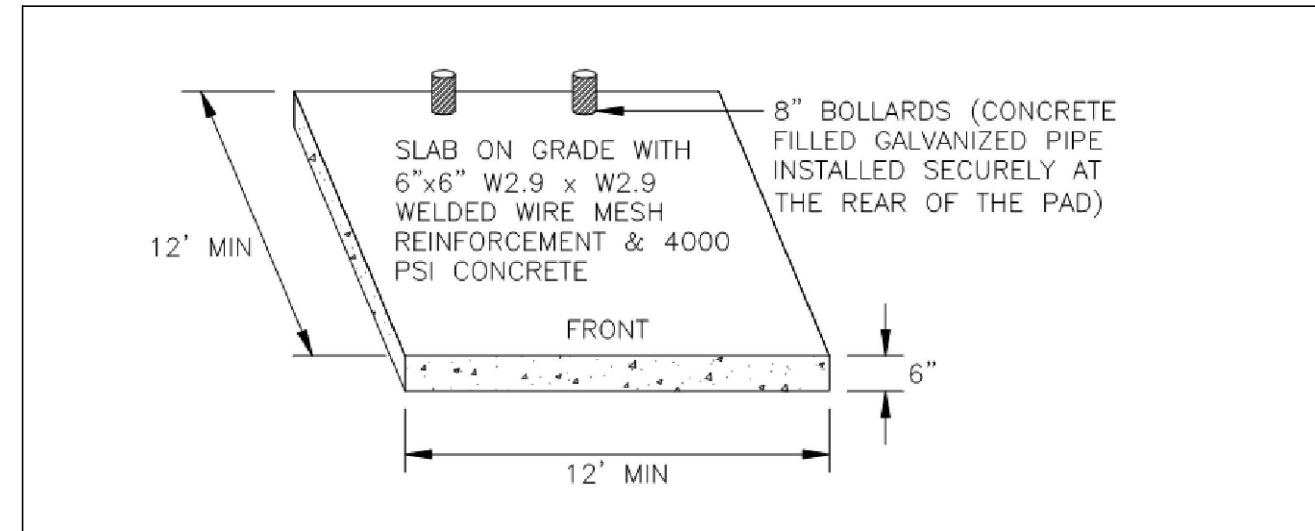
1 1/2" WEARING COURSE  
PAVEMENT DEPTH VARIES

ADJOINING STONES SHALL HAVE THE SAME OR APPROXIMATE LENGTH.

FINISH SURFACE AND TOLERANCES FOR VERTICAL GRANITE CURB

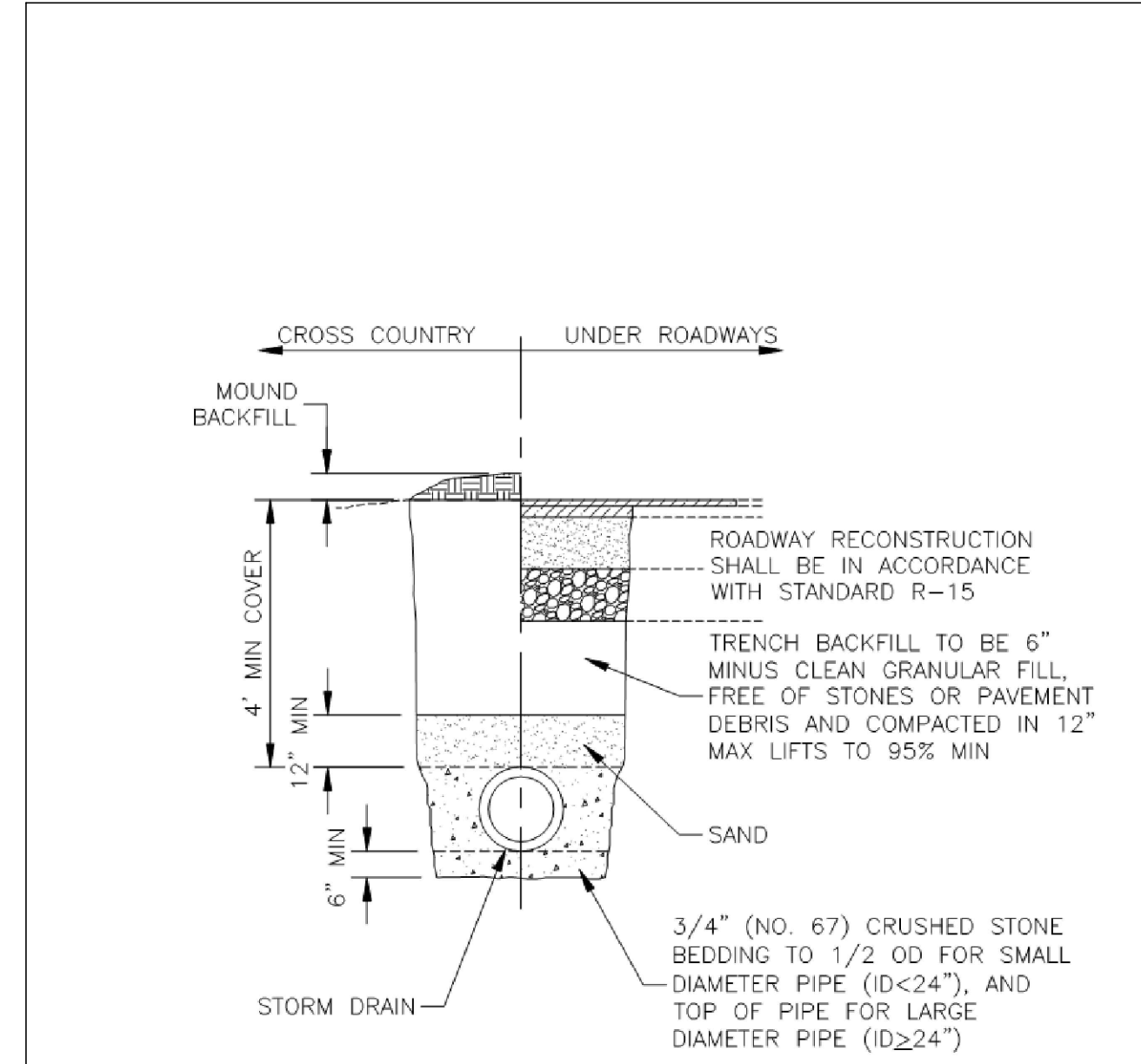
AREA	FINISH SURFACE	TOLERANCE
TOP	5" WIDE OR AS OTHERWISE SHOWN, SAWN TRUE PLANE.	+3/8" TO +1/8"
FRONT FACE	FRONT AND BACK ARRIS LINES PITCHED STRAIGHT AND PARALLEL.	+3/8" TO +1/8"
BACK FACE EXPOSED	RIGHT ANGLE TO TOP, APPROXIMATELY TRUE PLANE. NO DRILL HOLES SHOWING IN TOP 10"	+1" TO -3/4"
CONCEALED	BELOW 1/2" FROM EXPOSED SURFACE.	+1 1/2" TO -1 1/2"
BOTTOM	APPROXIMATELY PARALLEL TO TOP. MINIMUM WIDTH: 3"	SEE PLANS
ENDS EXPOSED PORTION	SQUARE WITH PLANES OF TOP AND FACE	
JOINTS EXPOSED	OPTIMUM WIDTH: 1"	
CONCEALED	TO BREAK BACK NO MORE THAN 4"	+3/4" TO -3/4"

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SITE/STREET
1	DRAFTING	12.15			
2	SAWCUT	5.19			
<b>VERTICAL GRANITE CURB</b>					
				DRAWING NO.	C-1
				DATE:	12/08
				PAGE:	1

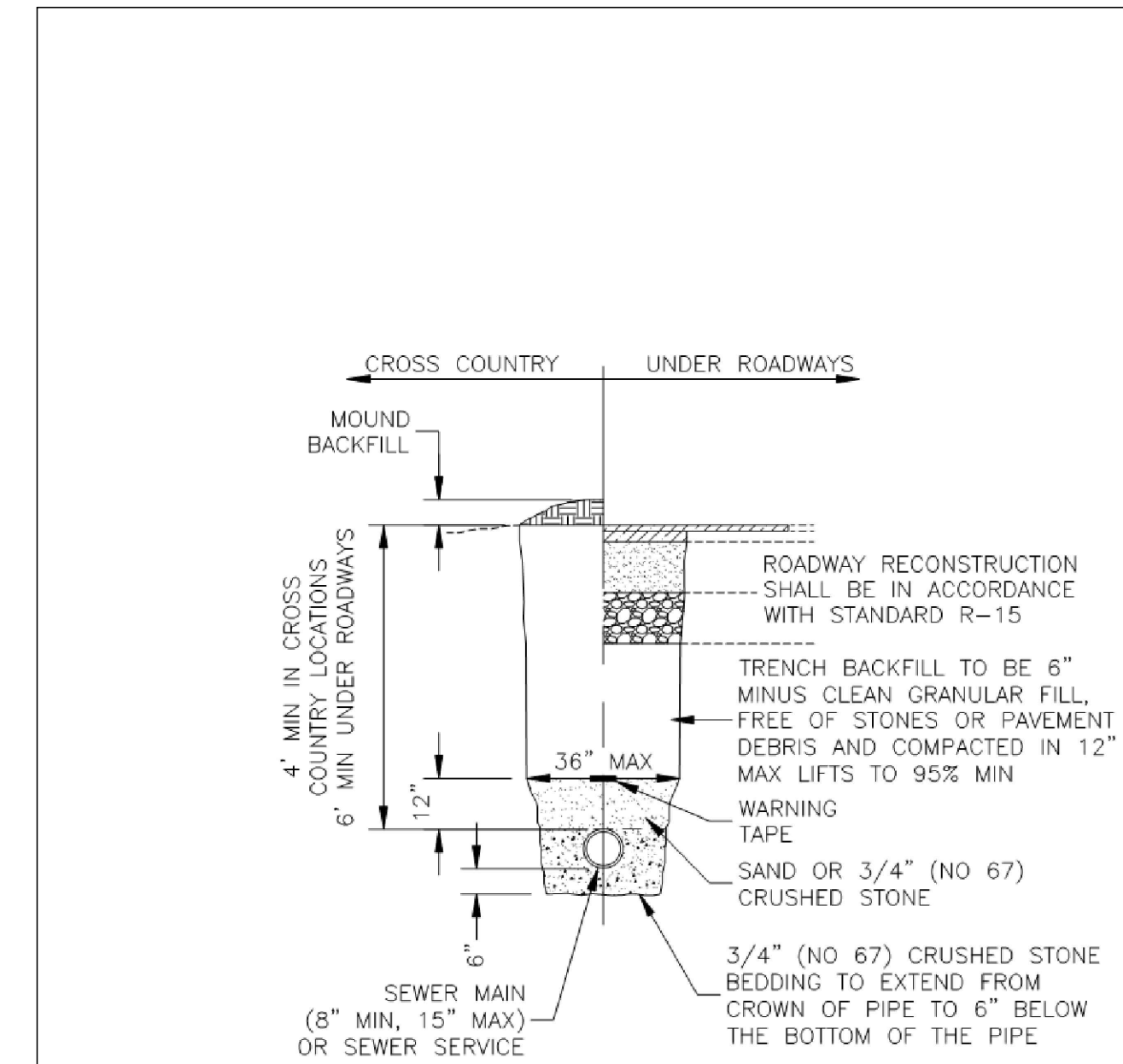


- NOTES:
- DUMPSTER PADS AND ASSOCIATED SCREENING SHALL BE PLACED WHERE THE REFUSE BINS CAN BE UNLOADED WITH A SINGLE TURNING MOVEMENT WITH A 35' FRONT LOADING TRUCK. THE WIDTH OF THE GATE SHOULD BE TAKEN INTO ACCOUNT WHEN REVIEWING TURNING MOVEMENTS.
  - GATES SHALL BE PROVIDED UNLESS THE DUMPSTER IS BLOCKED FROM VIEW FROM THE PUBLIC RIGHT-OF-WAY AND ADJUTING PROPERTIES BY BUILDINGS OR WALLS.
  - TRASH CONTAINERS SHALL BE LOCATED A MINIMUM DISTANCE OF 25' FROM ANY DRAINAGE STRUCTURE, INLET OR STORMWATER FACILITY.

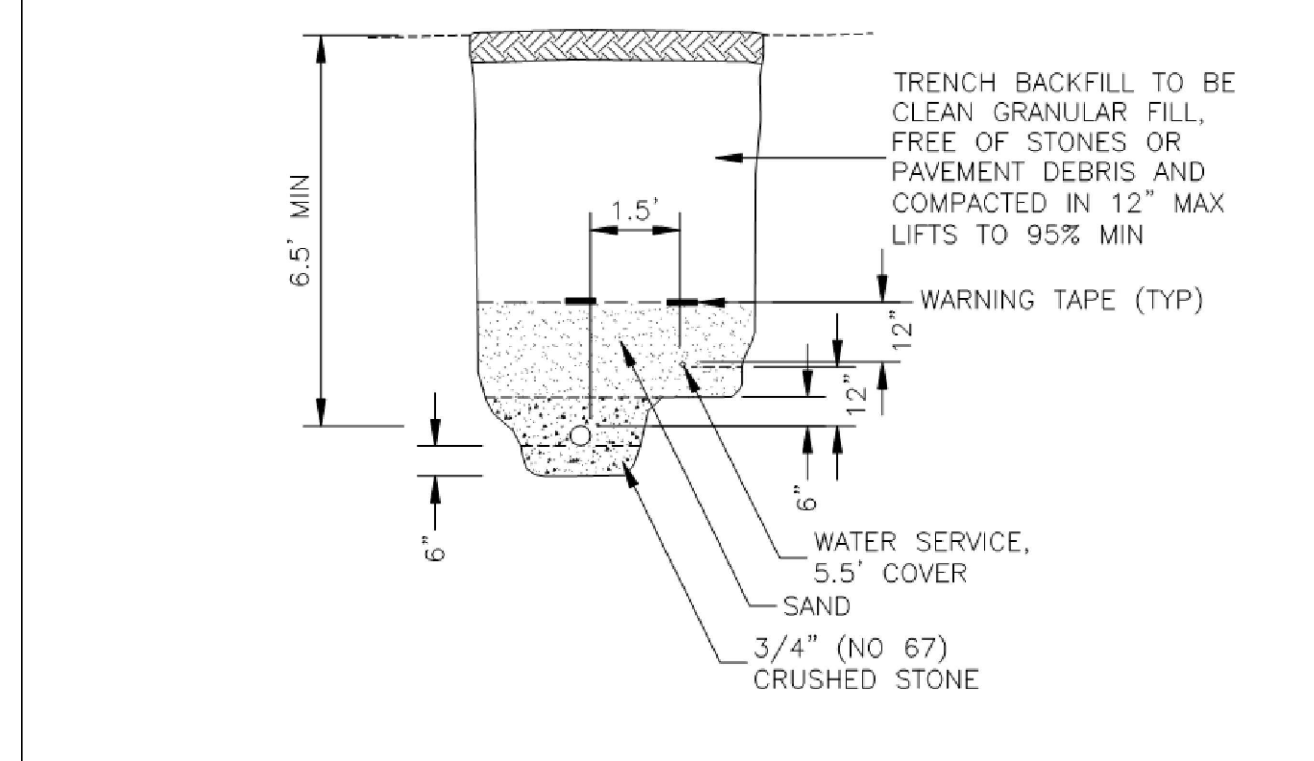
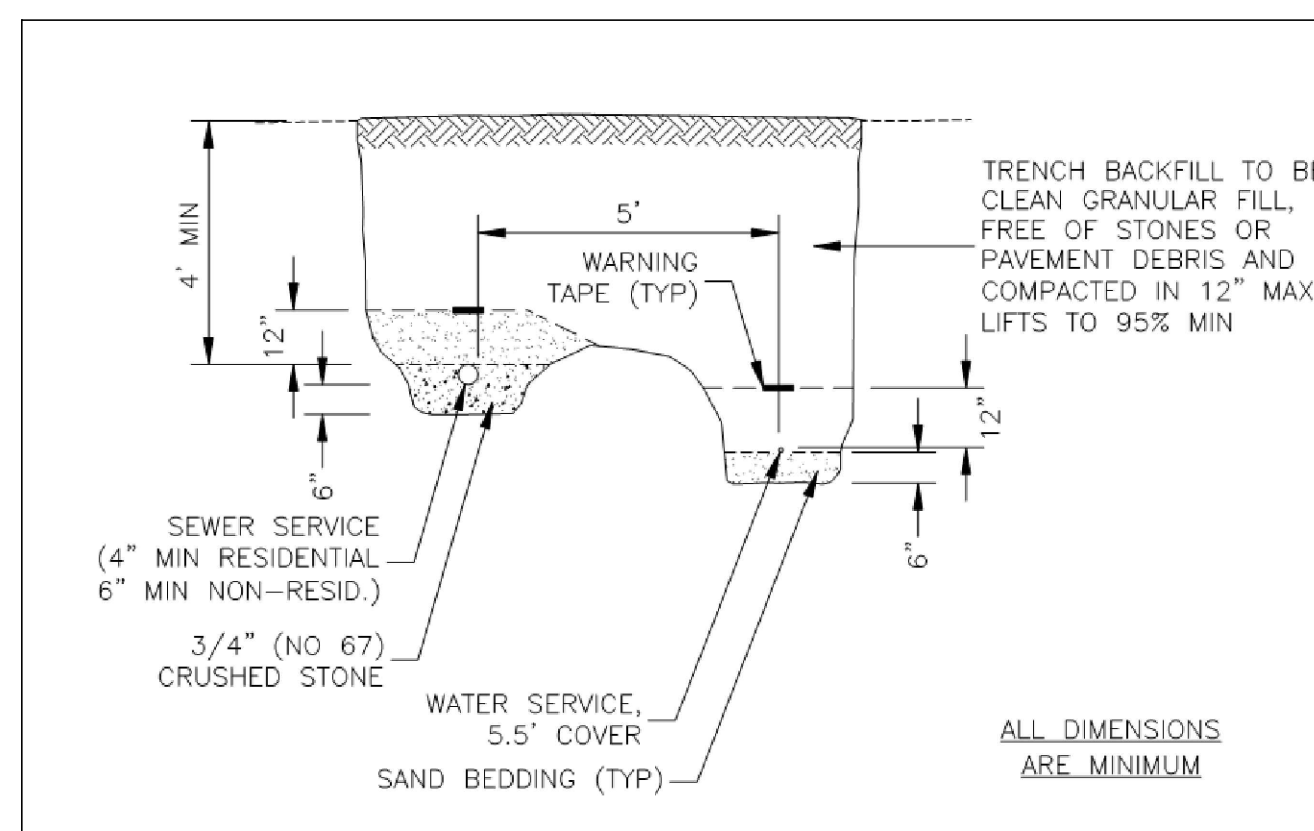
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SITE
1	NOTE 2	01.15			
<b>SINGLE DUMPSTER PAD</b>					
				DRAWING NO.	M-8
				DATE:	12/08
				PAGE:	1



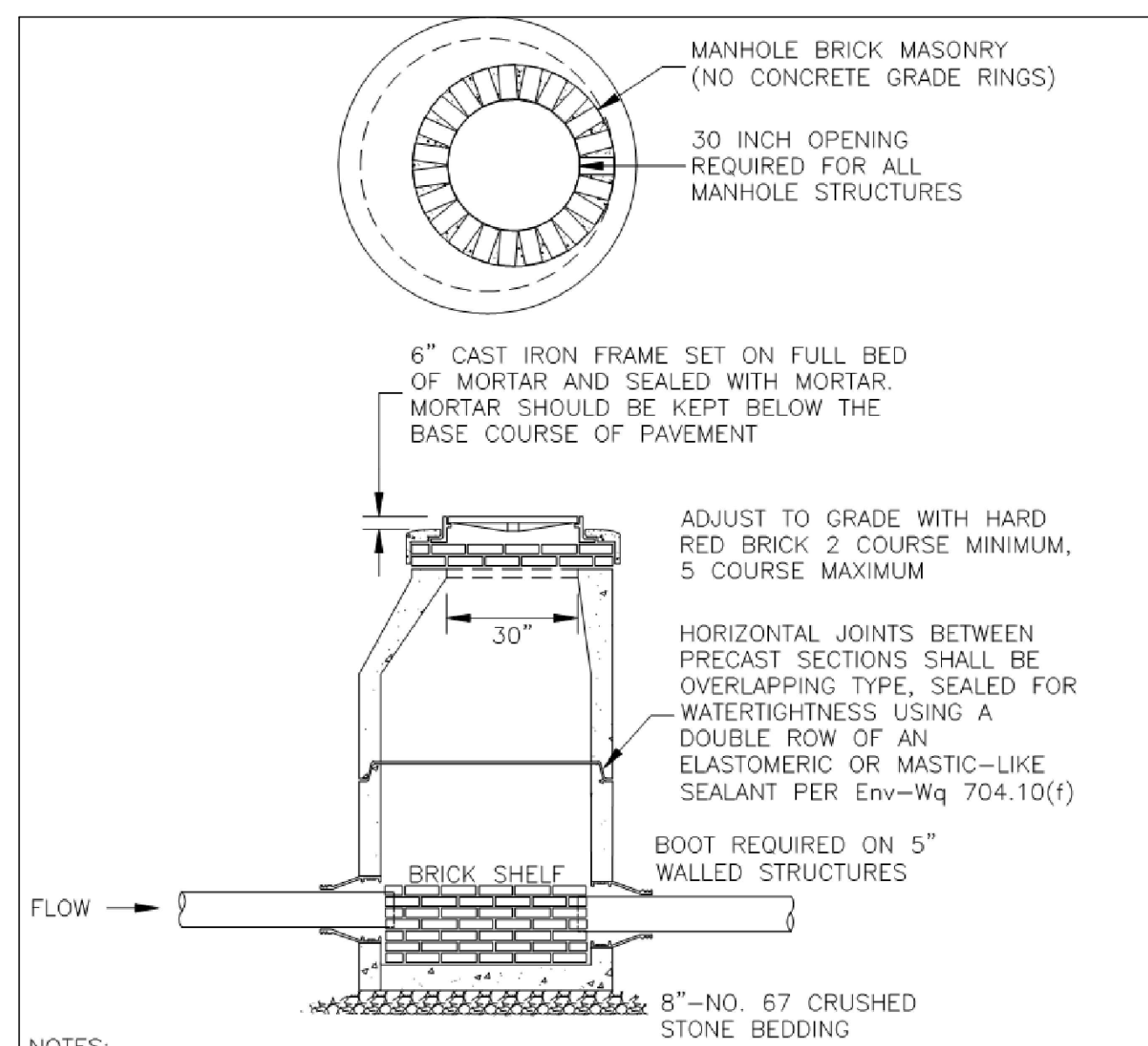
NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	STORM
1	Standards Reference	01.19			
<b>STORM DRAIN TRENCH</b>					
				DRAWING NO.	SD-1
				DATE:	04/15
				PAGE:	1



NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SEWER
1	STANDARD REF	3/19			
<b>SANITARY SEWER MAIN/SERVICE TRENCH</b>					
				DRAWING NO.	SM-1
				DATE:	05/13
				PAGE:	1

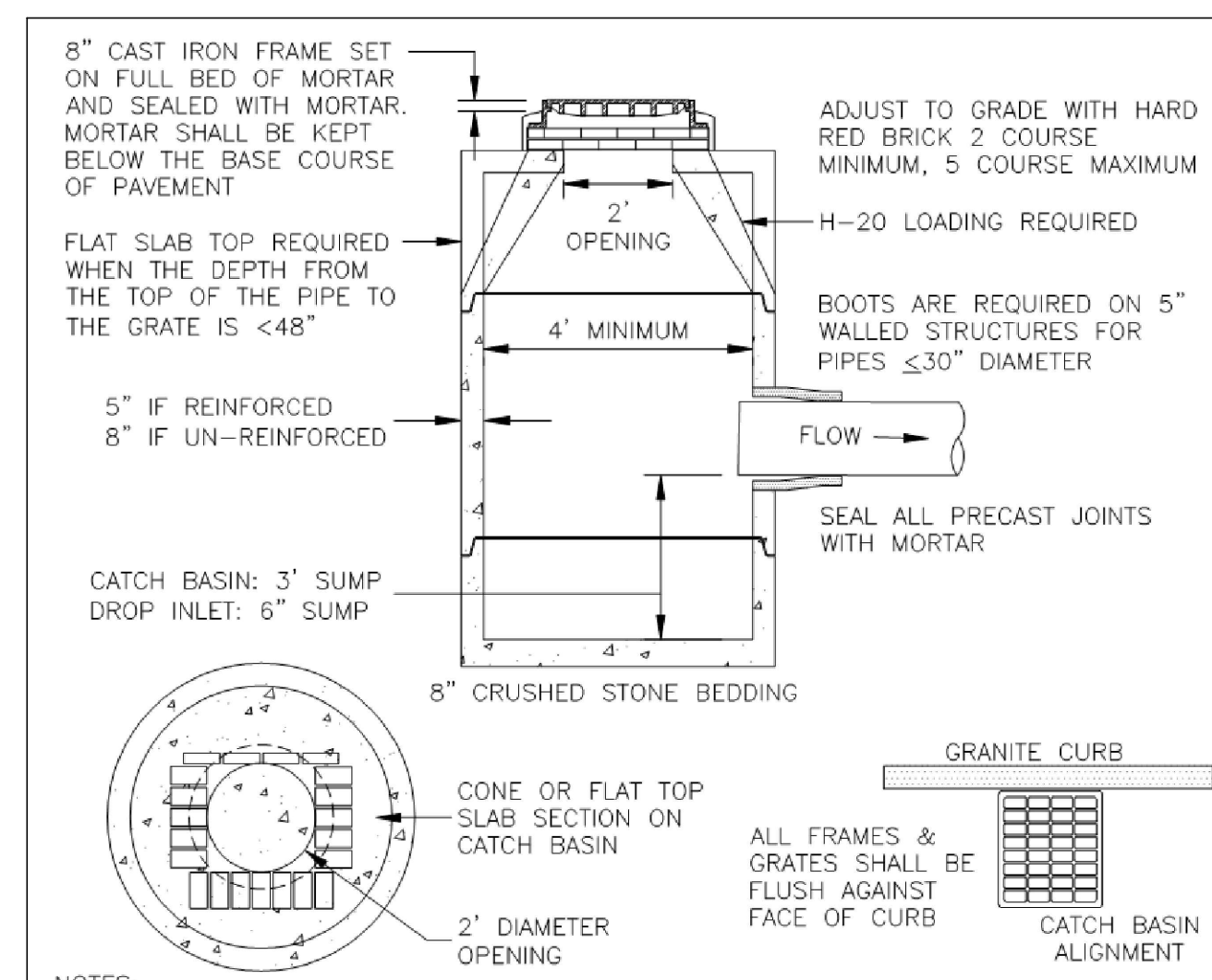


NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SEWR-WATR
1	DRAFTING	12.15			
<b>WATER AND SEWER SERVICE TRENCH</b>					
				DRAWING NO.	SS-7
				DATE:	03/15
				PAGE:	1



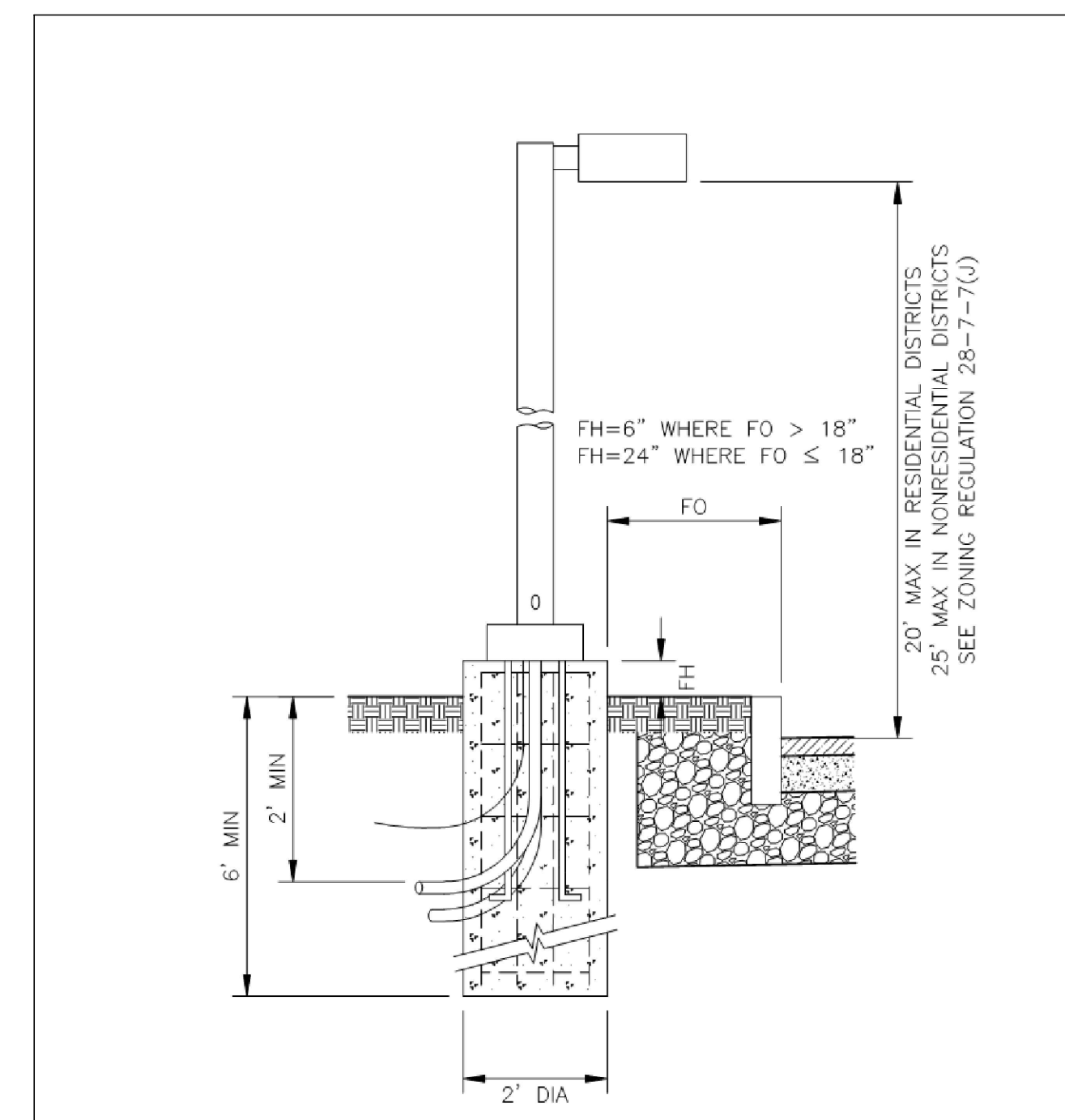
- NOTES:
- CONCRETE: 4,000 PSI AFTER 28 DAYS
  - H-20 LOADING REQUIRED
  - 5" THICK REINFORCED CONCRETE WALLS PER Env-Wq 704.10(d)
  - ON INSIDE OF STRUCTURE, PRE-CAST JOINTS AND LADDER RUNG HOLES TO BE SEALED WITH PORTLAND CEMENT
  - LIFT HOLES ARE TO BE SEALED WITH MORTAR FLUSH TO THE OUTSIDE STRUCTURE WALL PRIOR TO BACKFILLING
  - ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES. NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES, AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS
  - MANHOLES AND TRAFFIC SIGNAL LOOPS SHALL BE SEPARATED BY A MINIMUM OF 2' TO ALLOW FOR MAINTENANCE OF STRUCTURE

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	SEWER
1	DRAFTING	11.11			
<b>SEWER MANHOLE</b>					
				DRAWING NO.	SM-2
				DATE:	12/08
				PAGE:	1



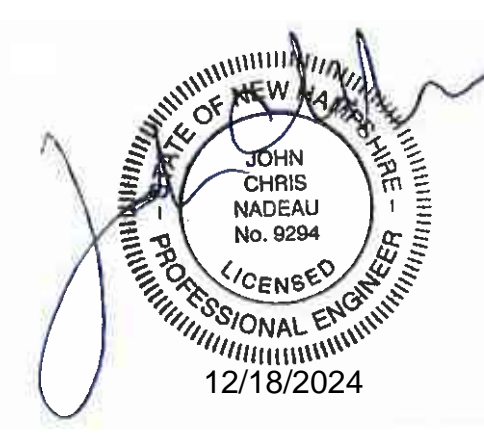
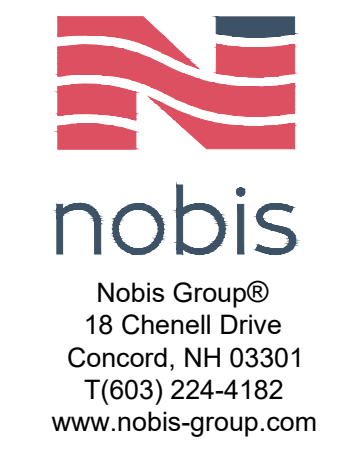
- NOTES:
- CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.
  - SEAL ALL PRECAST JOINTS WITH BITUMASTIC SEAL.
  - LIFT HOLES AND BOOT RECESSES ARE TO BE SEALED WITH MORTAR FLUSH TO THE OUTSIDE STRUCTURE WALL PRIOR TO BACKFILLING.
  - MINIMUM DEPTH FROM RIM TO INVERT OF THE HIGHEST PIPE SHALL BE:  
12"φ=3.7', 15"φ=3.9', 18"φ=4.2', 24"φ=4.8', 30"φ=5.3', 36"φ=5.8'
  - ALL STRUCTURES WITH MULTIPLE PIPES SHALL HAVE A MINIMUM OF 12" OF INSIDE SURFACE BETWEEN HOLES. NO MORE THAN 75% OF A HORIZONTAL CROSS-SECTION SHALL BE HOLES AND THERE SHALL BE NO HOLES CLOSER THAN 3" TO JOINTS.
  - MANHOLES AND TRAFFIC SIGNAL LOOPS SHALL BE SEPARATED BY A MINIMUM OF 2' TO ALLOW FOR MAINTENANCE OF STRUCTURE.
  - THREE FLANGED FRAMES SHALL BE USED FOR INSTALLATIONS ADJACENT TO VERTICAL GRANITE CURB.
  - NH007 TYPE "F" GRATE REQUIRED FOR ROADWAYS HAVING SLOPES EQUAL TO OR GREATER THAN 3%. TYPE "M" SHALL BE BICYCLE SAFE.
  - BRICK WORK SHALL BE RECTANGULAR AND CONFORM TO THE DIMENSIONS OF THE GRATE BEING USED. TYPE "B" GRATES SHALL BE ALIGNED WITH THE 22" DIMENSION AGAINST THE CURB.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	STORM DRAIN
1	DRAFTING	11/11			
2	SUMP DIM.	3/19			
<b>CATCH BASIN / DROP INLET</b>					
				DRAWING NO.	SD-6
				DATE:	12/08
				PAGE:	1



THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.

NO.	REVISION	DATE	City of Concord Engineering Services Division	SECTION:	ROADWAY
1	DRAFTING	11/11			
<b>TYPICAL LIGHT POLE AND FOUNDATION</b>					
				DRAWING NO.	M-13
				DATE:	01/14
				PAGE:	1



NOT ISSUED FOR CONSTRUCTION

BANGOR SAVINGS BANK

111 LOUDON ROAD  
CONCORD, NEW HAMPSHIRE

APPLICANT:  
BANGOR SAVINGS BANK  
P.O BOX 930  
BANGOR, ME 04402

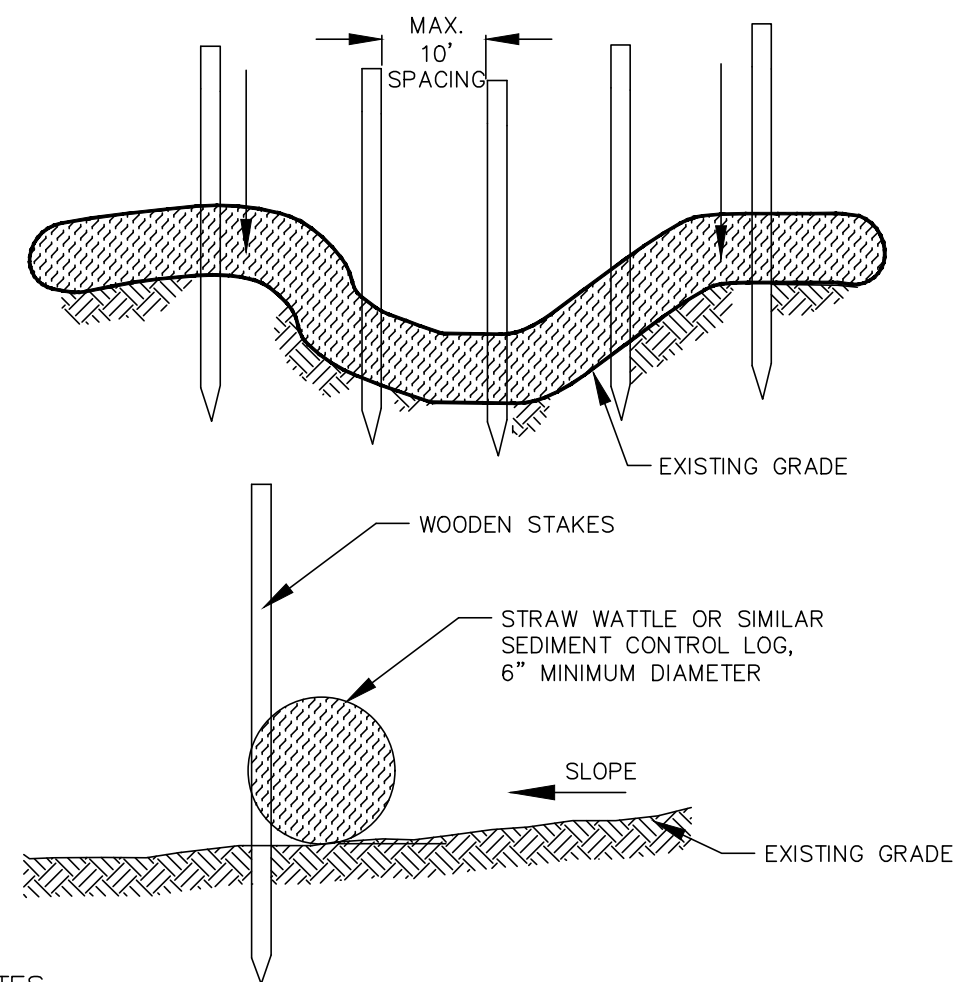
NO.	DATE	DESCRIPTION
REVISIONS		

SCALE:  
AS NOTED

DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-C-700-DETAILS.dwg
SHEET TITLE	

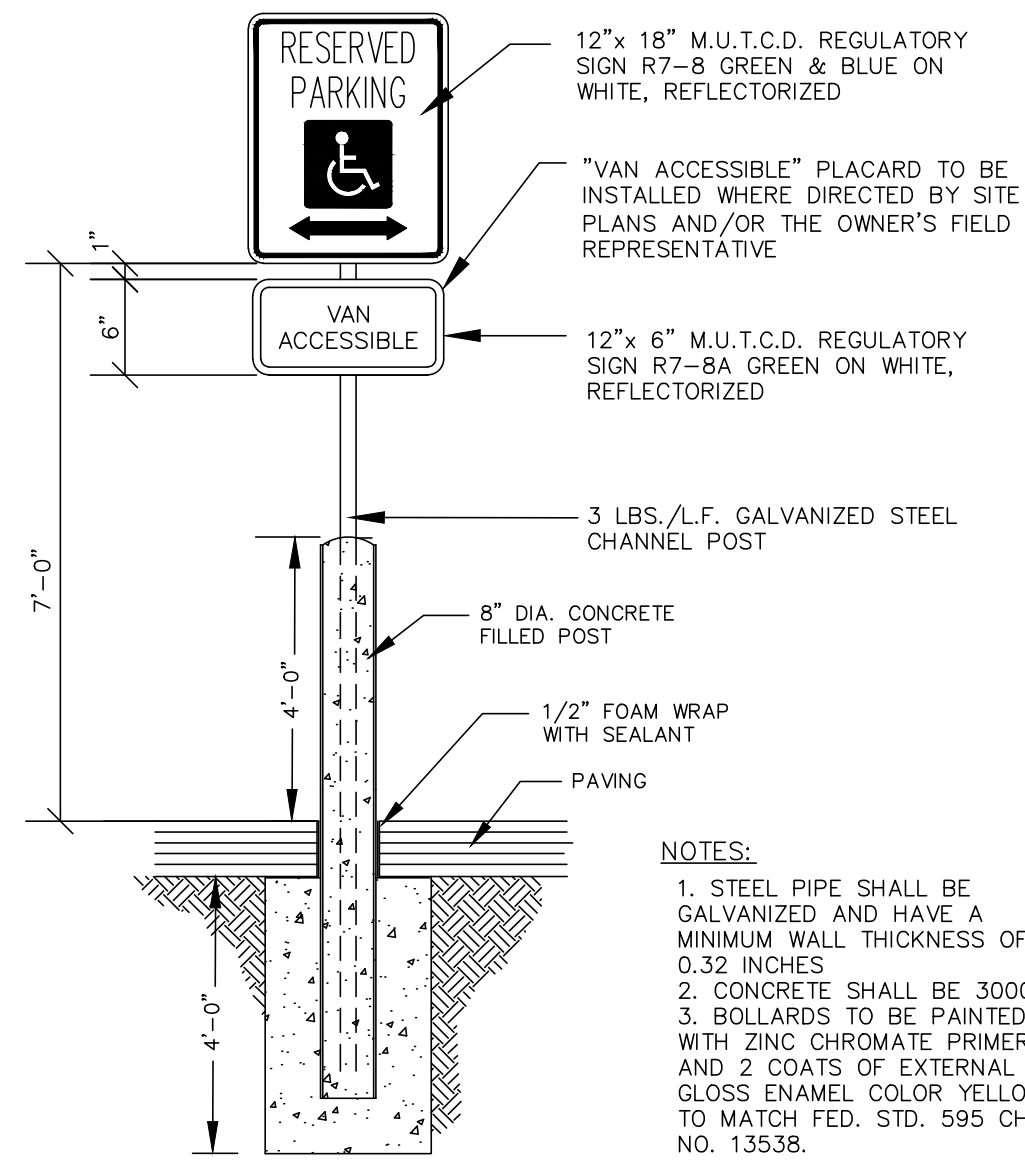
CONSTRUCTION  
DETAILS

SHEET  
C-6.1



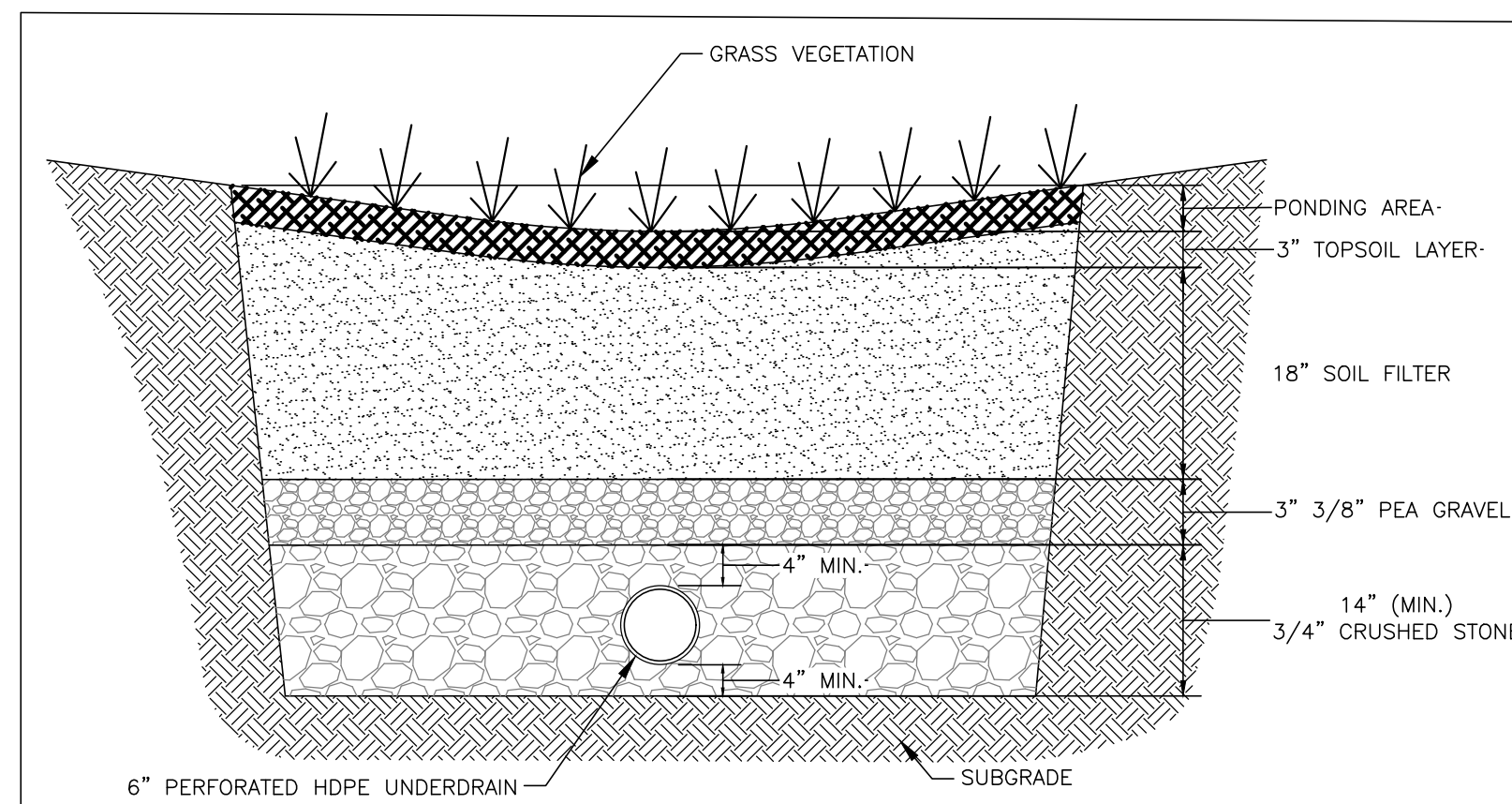
- NOTES:**
1. TEMPORARY STRAW WATTLES SHOULD BE LOCATED AS SHOWN ON EROSION CONTROL PLANS AND ACROSS ANY DRAINAGE SWALE DOWNSTREAM FROM THE CONSTRUCTION AREA.
  2. STAKE SHOULD BE INTERTWINED WITH THE OUTER MESH ONLY (ON THE DOWNSTREAM SIDE ONLY) AND PLACED A MINIMUM OF 610 MM (24") INTO GROUND.
  3. PROVIDE PERIODIC REMOVAL OF ACCUMULATED DEBRIS AND SEDIMENTS DURING CONSTRUCTION AND PRIOR TO DISMANTLING.
  4. STRAW WATTLES ARE TO USE AT NON-PAVEMENT AREA IF NEEDED.

**TEMPORARY STRAW WATTLE**  
NOT TO SCALE



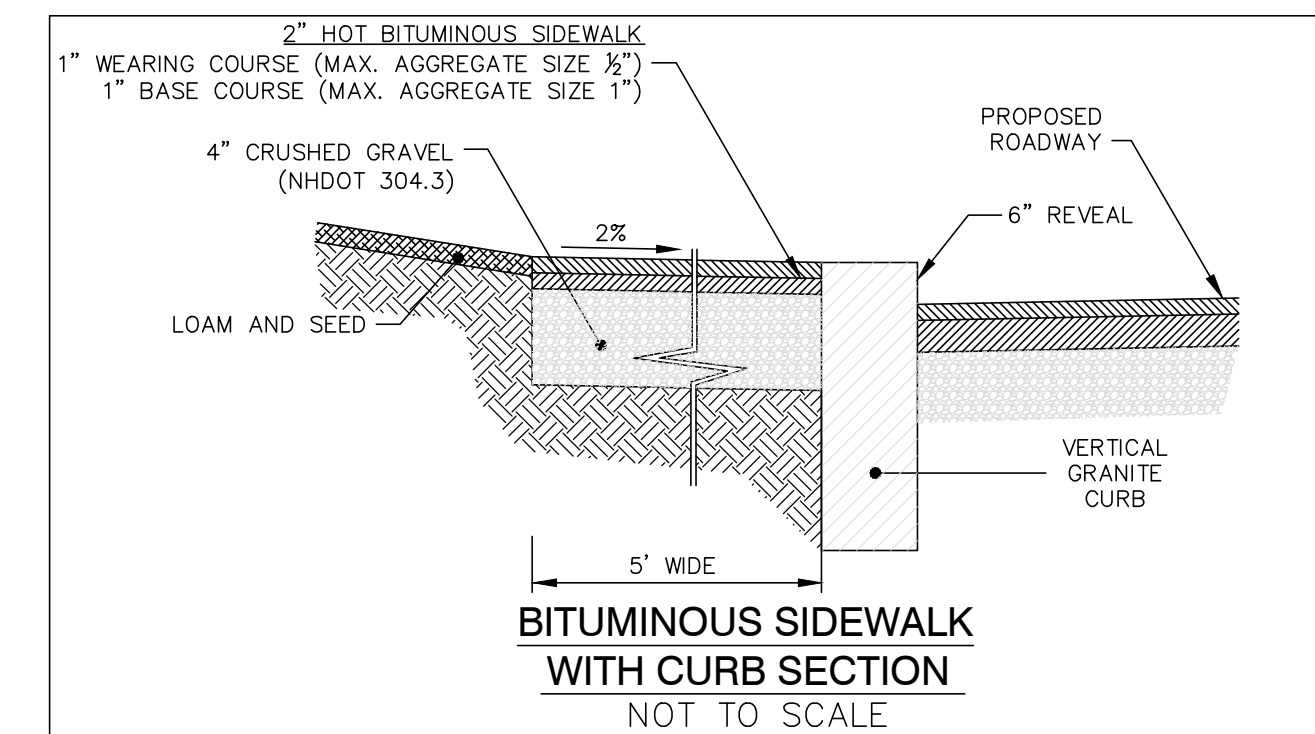
- NOTES:**
1. STEEL PIPE SHALL BE GALVANIZED AND HAVE A MINIMUM WALL THICKNESS OF 0.32 INCHES
  2. CONCRETE SHALL BE 3000PSI
  3. BOLLARDS TO BE PAINTED WITH ZINC CHROMATE PRIMER AND 2 COATS OF EXTERNAL GLOSS ENAMEL COLOR YELLOW TO MATCH FED. STD. 595 CHIP NO. 13538.

**RESERVED PARKING SIGN ON BOLLARD**  
NOT TO SCALE

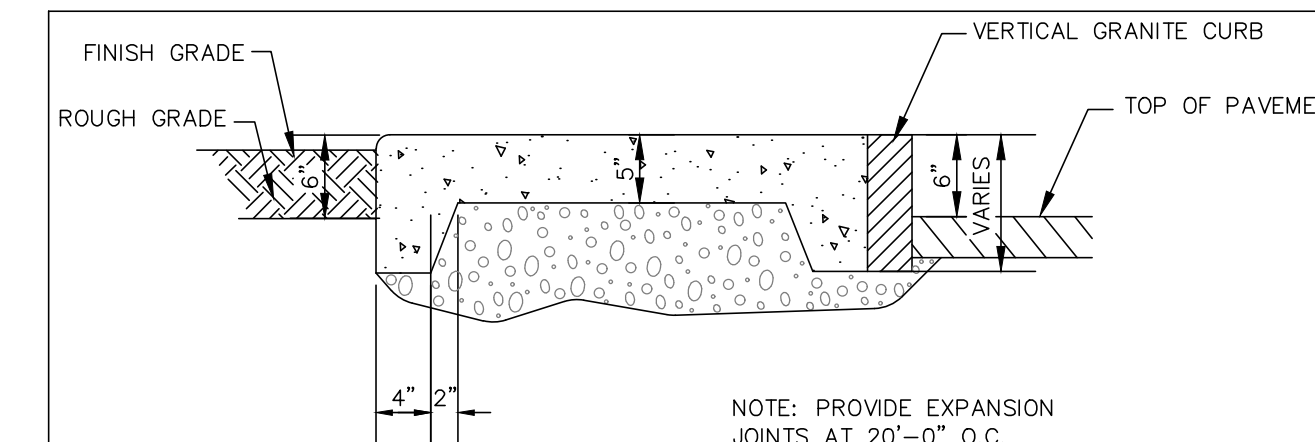


SOIL FILTER SHALL CONSIST OF:  
 50%-55% ASTM C-33 CONCRETE SAND  
 20%-30% LOAMY SAND TOPSOIL WITH 15%-25% FINES PASSING THE NUMBER 200 SIEVE  
 20%-30% MODERATELY FINE SHREDDED BARK OR WOOD FIBER MULCH WITH LESS THAN 5% PASSING THE NUMBER 200 SIEVE

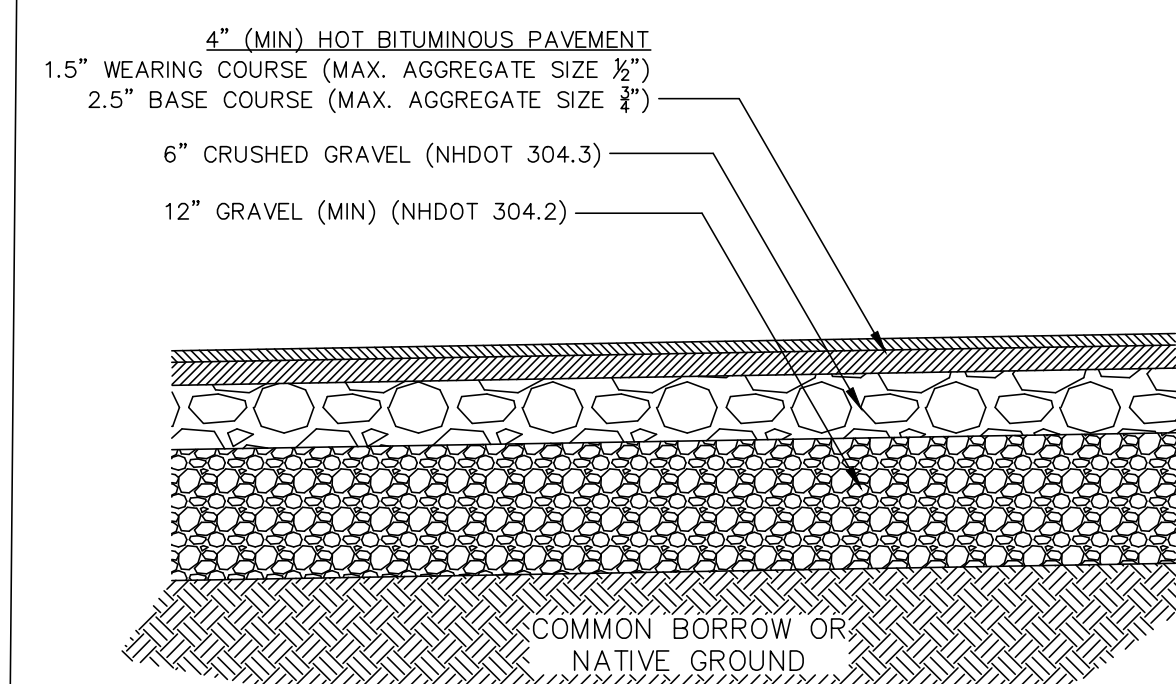
**BIORETENTION DETAIL**  
NOT TO SCALE



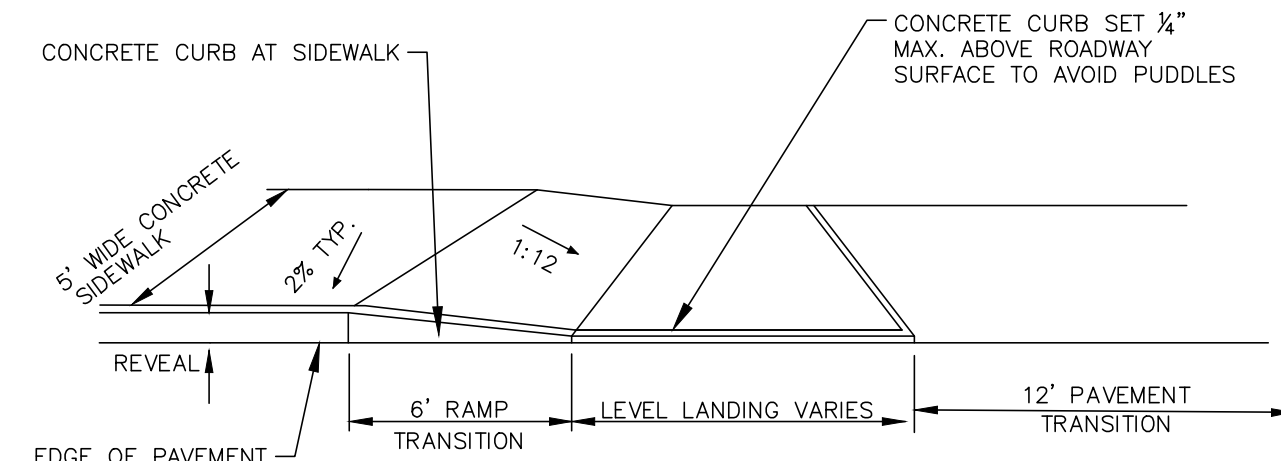
**BITUMINOUS SIDEWALK WITH CURB SECTION**  
NOT TO SCALE



**CONCRETE SIDEWALK WITH CURB SECTION**  
NOT TO SCALE

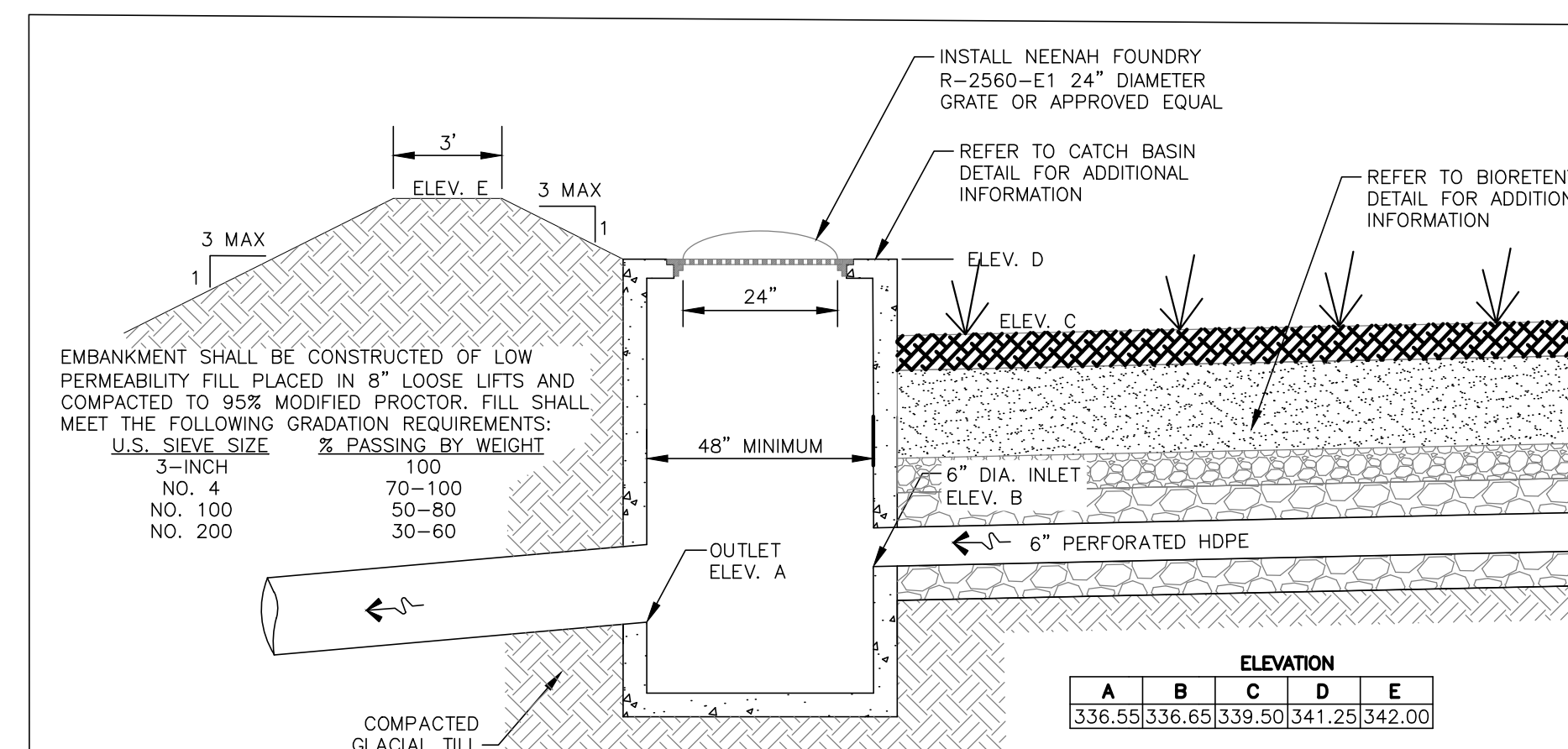


**TYPICAL NEW PARKING SECTION**  
NOT TO SCALE

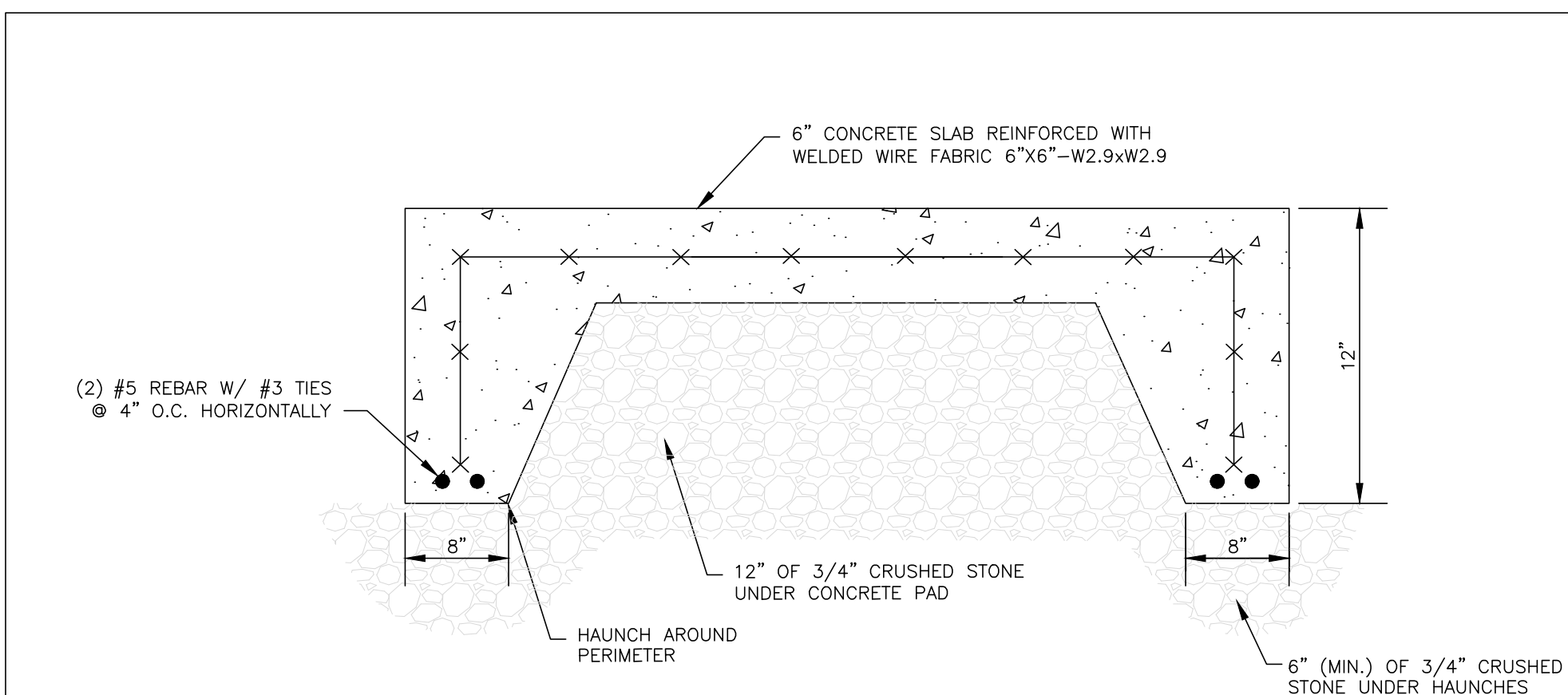


- NOTES:**
1. REFER TO CITY OF CONCORD SIDEWALK RAMP GENERAL NOTES (CR-2)

**ACCESSIBLE RAMP**  
NOT TO SCALE

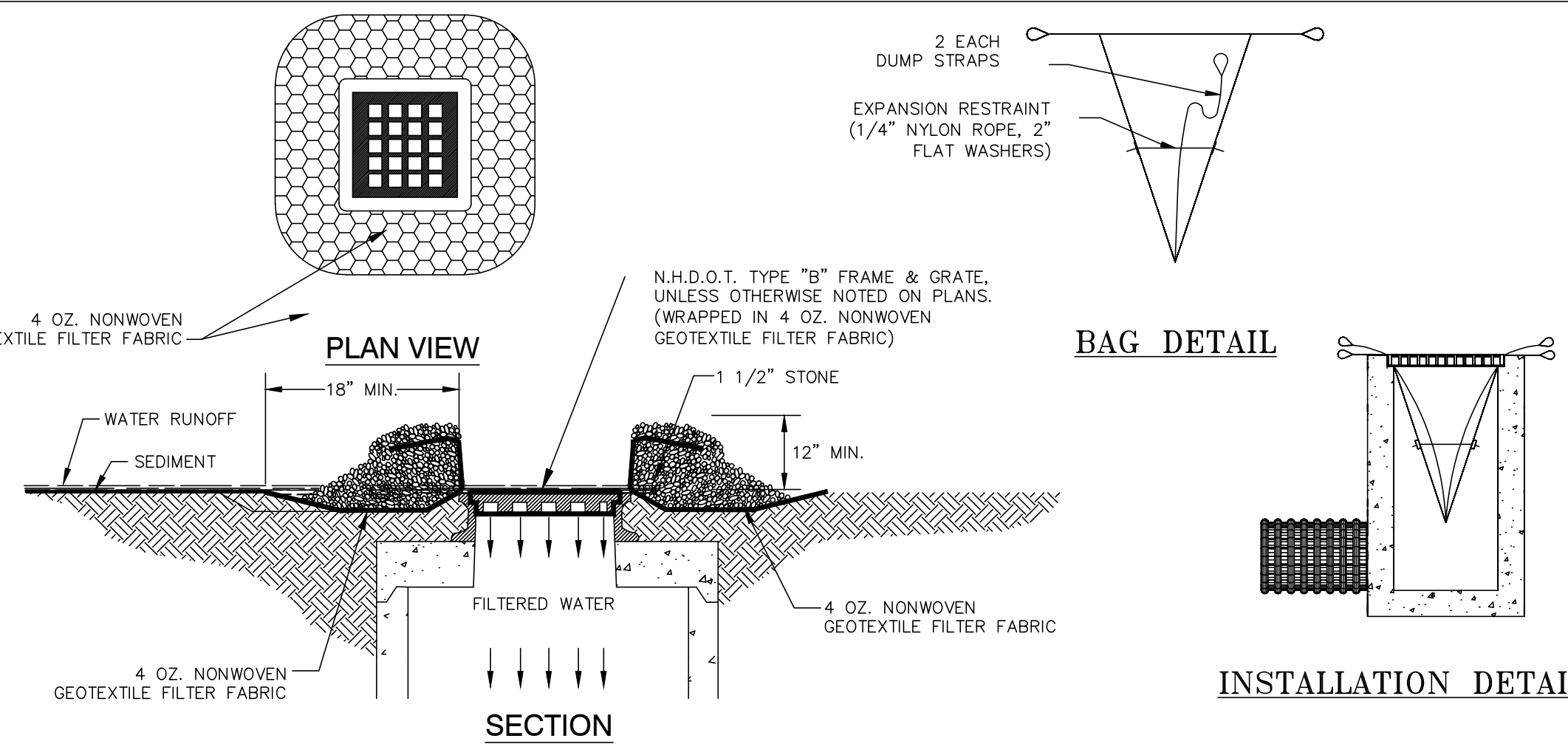


**BIORETENTION SYSTEM OUTLET STRUCTURE SECTION**  
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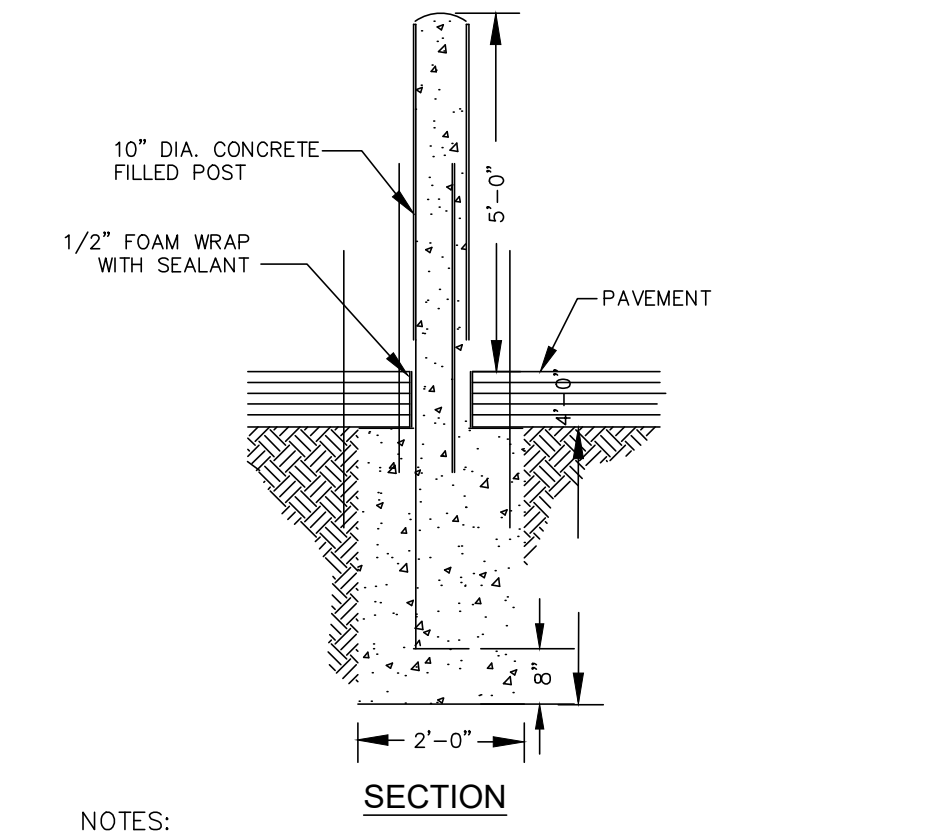


- NOTES:**
1. CONCRETE PAD SHALL BE CONSTRUCTED OF PORTLAND CEMENT CONCRETE (CLASS AA, 4,000 PSI @ 28 DAYS).
  2. REINFORCING PER ASTM A-615, GRADE 60 DEFORMED BLACK BARS.

**CONCRETE PAD DETAIL**  
NOT TO SCALE



**TEMPORARY CATCH BASIN INLET PROTECTION**  
NOT TO SCALE

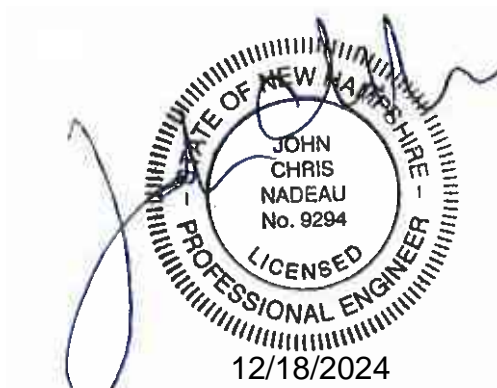


- NOTES:**
1. STEEL PIPE SHALL BE GALVANIZED AND HAVE A MINIMUM WALL THICKNESS OF 0.32 INCHES
  2. CONCRETE SHALL BE 3000PSI
  3. BOLLARDS TO BE PAINTED WITH ZINC CHROMATE PRIMER AND 2 COATS OF EXTERNAL GLOSS ENAMEL COLOR YELLOW TO MATCH FED. STD. 595 CHIP NO. 13538.

**CONCRETE FILLED BOLLARD**  
NOT TO SCALE



**nobis**  
 Nobis Group®  
 18 Chenell Drive  
 Concord, NH 03301  
 T(603) 224-4182  
 www.nobis-group.com



NOT ISSUED FOR CONSTRUCTION

**BANGOR SAVINGS BANK**

111 LOUDON ROAD  
 CONCORD, NEW HAMPSHIRE

APPLICANT:  
 BANGOR SAVINGS BANK  
 P.O BOX 930  
 BANGOR, ME 04402

NO.	DATE	DESCRIPTION

REVISIONS

SCALE:  
 AS NOTED

DATE: DEC 2024

NOBIS PROJECT NO. 100165.00

DRAWN BY: KLR

CHECKED BY: JIR

CAD DRAWING FILE:

100165.000-C-700-DETAILS.dwg

SHEET TITLE

**CONSTRUCTION DETAILS**

SHEET  
**C-6.2**

**CULTEC RECHARGER<sup>®</sup> 360HD PRODUCT SPECIFICATIONS**

**GENERAL**  
CULTEC RECHARGER<sup>®</sup> 360HD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

**CHAMBER PARAMETERS**

- THE CHAMBERS SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
  - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
  - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
  - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
- THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
  - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
  - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
  - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95
- THE INSTALLED CHAMBER SYSTEM SHALL BE STRUCTURALLY DESIGNED TO PROVIDE RESISTANCE TO LIVE LOADS AS DEFINED BY THE AASHTO H-20/HL-93 SPECIFICATION WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- THE CHAMBER SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- THE CHAMBER SHALL BE ARCHED IN SHAPE.
- THE CHAMBER SHALL BE OPEN-BOTTOMED.
- THE CHAMBER SHALL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER<sup>®</sup> 360HD SHALL BE 36 INCHES (914 MM) TALL, 60 INCHES (1525 MM) WIDE AND 50 INCHES (1275 MM) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 360HD SHALL BE 3.67 FEET (1.12 M).
- MULTIPLE CHAMBERS MAY BE CONNECTED TO FORM DIFFERENT LENGTH ROWS. EACH ROW SHALL BEGIN AND END WITH A SEPARATELY FORMED CULTEC RECHARGER<sup>®</sup> 360HD END CAP. MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 MM) HDPE OR 30 INCHES (750 MM) PVC.
- THE CHAMBER SHALL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV<sup>™</sup> FC-48 FEED CONNECTORS TO CREATE AN INTERNAL MANIFOLD. MAXIMUM ALLOWABLE PIPE SIZE IN THE SIDE PORTAL IS 10 INCHES (250 MM) HDPE AND 12 INCHES (300 MM) PVC.
- THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV<sup>™</sup> FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245 MM) LONG.
- THE NOMINAL STORAGE VOLUME OF THE RECHARGER 360HD CHAMBER SHALL BE 10.0 FT<sup>3</sup>/FT (0.28 M<sup>3</sup>/M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 360HD SHALL BE 36.67 FT<sup>3</sup>/UNIT (1.038 M<sup>3</sup>/UNIT) - WITHOUT STONE.
- THE NOMINAL STORAGE VOLUME OF THE HVLV<sup>™</sup> FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup>/FT (0.085 M<sup>3</sup>/M) - WITHOUT STONE.
- THE RECHARGER 360HD CHAMBER SHALL HAVE 4 CORRUGATIONS.
- THE CHAMBER SHALL BE CAPABLE OF ACCEPTING A 6 INCH (150 MM) INSPECTION PORT OPENING AT THE TOP CENTER OF EACH CHAMBER, CENTERED ON THE CORRUGATION CREST.
- THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
- THE CHAMBER SHALL BE MANUFACTURED IN A FACILITY EMPLOYING CULTEC'S QUALITY CONTROL AND ASSURANCE PROCEDURES.
- MAXIMUM ALLOWABLE COVER OVER THE TOP OF THE CHAMBER SHALL BE 12.0 FEET (3.66 M).

**END CAP PARAMETERS**

- THE CULTEC RECHARGER<sup>®</sup> 360HD END CAP (REFERRED TO AS 'END CAP') SHALL BE MANUFACTURED IN THE U.S.A. BY CULTEC, OF BROOKFIELD, CT (CULTEC.COM, 203-775-4416).
- THE END CAP SHALL BE STRUCTURAL FOAM INJECTION MOLDED OF BLUE VIRGIN HIGH MOLECULAR WEIGHT IMPACT-MODIFIED POLYPROPYLENE.
- THE END CAP SHALL BE ARCHED IN SHAPE.
- THE END CAP SHALL BE JOINED AT THE BEGINNING AND END OF EACH ROW OF CHAMBERS USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDERED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS.
- THE END CAP SHALL HAVE 5 CORRUGATIONS.
- THE NOMINAL DIMENSIONS OF THE END CAP SHALL BE 36.5 INCHES (927 MM) TALL, 60 INCHES (1525 MM) WIDE AND 18 INCHES (457 MM) LONG. WHEN JOINED WITH A RECHARGER 360HD CHAMBER, THE INSTALLED LENGTH OF THE END CAP SHALL BE 15 INCHES (381 MM).
- THE NOMINAL STORAGE VOLUME OF THE END CAP SHALL BE 5.17 FT<sup>3</sup>/FT (0.48 M<sup>3</sup>/M) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF AN INTERLOCKED END CAP SHALL BE 6.46 FT<sup>3</sup>/UNIT (0.183 M<sup>3</sup>/UNIT) - WITHOUT STONE.
- MAXIMUM INLET OPENING ON THE END CAP IS 24 INCHES (600 MM) HDPE OR 30 INCHES (750 MM) PVC.
- THE END CAP SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12.

**CULTEC HVLV FC-48 FEED CONNECTOR PRODUCT SPECIFICATIONS**

**GENERAL**  
CULTEC HVLV FC-48 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANIFOLD FOR CULTEC RECHARGER MODEL 360HD STORMWATER CHAMBERS.

**FEED CONNECTOR PARAMETERS**

- THE FEED CONNECTOR SHALL BE MANUFACTURED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- THE FEED CONNECTOR SHALL BE VACUUM THERMOFORMED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HMWHDPE) WITH A BLACK INTERIOR AND BLUE EXTERIOR.
- THE FEED CONNECTOR SHALL BE ARCHED IN SHAPE.
- THE FEED CONNECTOR SHALL BE OPEN-BOTTOMED.
- THE NOMINAL DIMENSIONS OF THE CULTEC HVLV FC-48 FEED CONNECTOR SHALL BE 12 INCHES (305 MM) TALL, 16 INCHES (406 MM) WIDE AND 49 INCHES (1245 MM) LONG.
- THE NOMINAL STORAGE VOLUME OF THE HVLV FC-48 FEED CONNECTOR SHALL BE 0.913 FT<sup>3</sup>/FT (0.085 M<sup>3</sup>/M) - WITHOUT STONE.
- THE HVLV FC-48 FEED CONNECTOR SHALL HAVE 4 CORRUGATIONS.
- THE HVLV FC-48 FEED CONNECTOR MUST BE FORMED AS A WHOLE UNIT HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT SHALL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANIFOLD.
- THE FEED CONNECTOR SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

**CULTEC NO. 410<sup>™</sup> NON-WOVEN GEOTEXTILE**

- CULTEC NO. 410<sup>™</sup> NON-WOVEN GEOTEXTILE MAY BE USED WITH CULTEC CONTACTORS AND RECHARGER<sup>®</sup> STORMWATER INSTALLATIONS TO PROVIDE A BARRIER THAT PREVENTS SOIL INTRUSION INTO THE STONE.
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
  - THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
  - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 4.5 OZ/SY (142 G/M).
  - THE GEOTEXTILE SHALL HAVE A TENSILE WEIGHT VALUE OF 120 LBS (53.3 N) PER ASTM D4632 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE AN ELONGATION @ BREAK VALUE OF 50% PER ASTM D4632 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A MULLEN BURST VALUE OF 225 PSI (1551 KPA) PER ASTM D3786 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A PUNCTURE STRENGTH VALUE OF 65 LBS (289 N) PER ASTM D4833 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE VALUE OF 340 LBS (1513 N) PER ASTM D6241 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR VALUE OF 120 LBS (533 N) PER ASTM D4533 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A AOS VALUE OF 70 U.S. SIEVE (0.212 MM) PER ASTM D4751 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A PERMITTIVITY VALUE OF 1.7 SEC-1 PER ASTM D4991 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A WATER FLOW RATE VALUE OF 135 GAL/MIN/SF (5500 L/MIN/SM) PER ASTM D4991 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A UV STABILITY @ 500 HOURS VALUE OF 70% PER ASTM D4355 TESTING METHOD.

**CULTEC AFAB-HPP<sup>™</sup> WOVEN GEOTEXTILE**

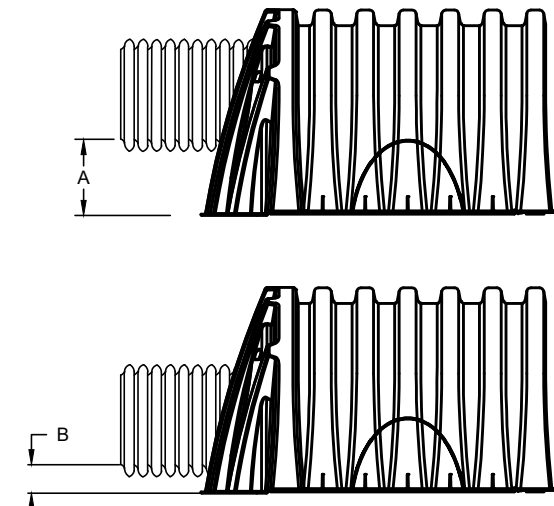
- CULTEC AFAB-HPP<sup>™</sup> WOVEN GEOTEXTILE IS DESIGNED AS A UNDERLAYMENT TO PREVENT SCORING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANIFOLD FEATURE. IT MAY ALSO BE USED AS A COMPONENT OF THE CULTEC SEPARATOR ROW TO ACT AS A BARRIER TO PREVENT SOIL CONTAMINANT INTRUSION INTO THE STONE WHILE ALLOWING FOR MAINTENANCE.
- THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
  - THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
  - THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 320 X 320 LBS (1,420 X 1,420 N) PER ASTM D4632 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A ELONGATION @ BREAK RESISTANCE OF 15 X 15% PER ASTM D4632 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A WIDE WIDTH TENSILE RESISTANCE OF 3,563 X 3,563 LBS/FT (52 X 52 KVA/N) PER ASTM D4995 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 1,500 LBS (6,670 N) PER ASTM D6241 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A TRAPEZOIDAL TEAR RESISTANCE OF 120 X 120 LBS (540 X 540 N) PER ASTM D4533 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 30 US STD. SIEVE (0.60 MM) PER ASTM D4751 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.2 SEC-1 PER ASTM D4991 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 22 GPM/FT<sup>2</sup> (900 LPM/M<sup>2</sup>) PER ASTM D4991 TESTING METHOD.
  - THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.

**GENERAL NOTES**

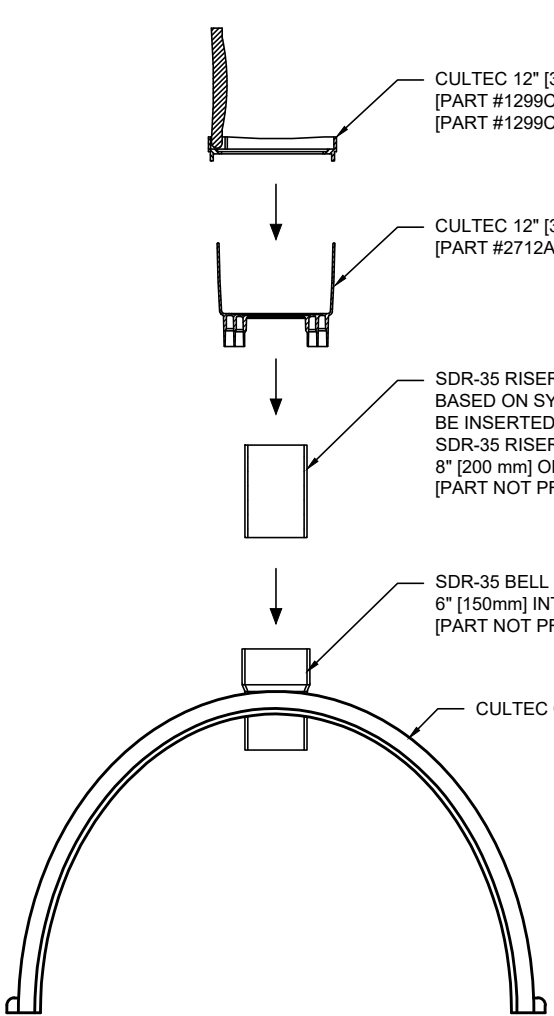
PIPE	A	B
6" [150 mm]	26.50" [673 mm]	1.00" [25 mm]
8" [200 mm]	24.50" [622 mm]	1.00" [25 mm]
10" [250 mm]	22.25" [565 mm]	1.25" [32 mm]
12" [300 mm]	19.75" [502 mm]	1.75" [45 mm]
15" [375 mm]	16.50" [419 mm]	2.00" [50 mm]
18" [450 mm]	13.00" [330 mm]	2.50" [64 mm]
21" [525 mm]	10.00" [254 mm]	2.50" [64 mm]
24" [600 mm]	7.00" [178 mm]	2.50" [64 mm]
30" [750 mm]	N/A	3.50" [89 mm]

\*THE TYPICAL INVERT TABLE ABOVE IS BASED ON THE INSIDE DIAMETER OF STANDARD CORRUGATED PLASTIC PIPE. THE HEAVY DUTY END CAP HAS PRE-MARKED TRIM LINES FOR PIPE DIAMETERS 12" (300mm), 15" (375mm), 18" (450mm) AND 24" (600mm). PIPES OF ANY SIZE AND MATERIAL UP TO 24" (600mm) MAY BE PLACED AT CUSTOM LOCATIONS AND CUSTOM INVERTS. 30" (750 mm) SMOOTH-WALL SDR-35 PVC PIPE MAY BE USED AT THE BOTTOM OF THE END CAP. THE CROWN OF THE PIPE MUST REMAIN A MINIMUM OF 3" (75mm) FROM THE EDGE OF THE HEAVY DUTY END CAP.

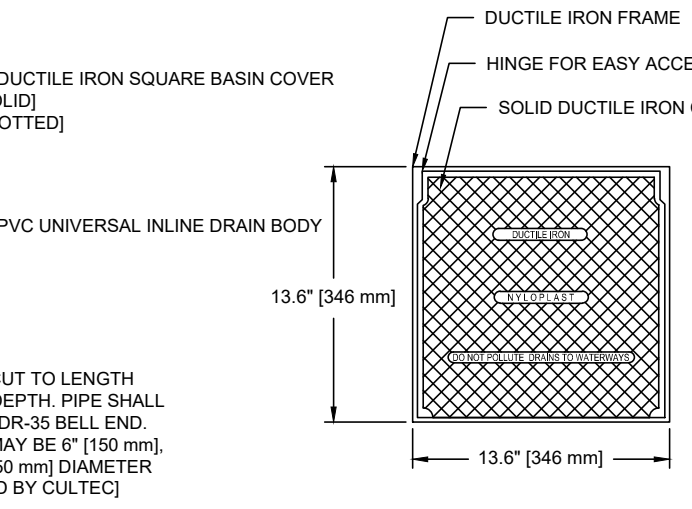
**CULTEC RECHARGER 360HD TYPICAL PIPE INVERTS**



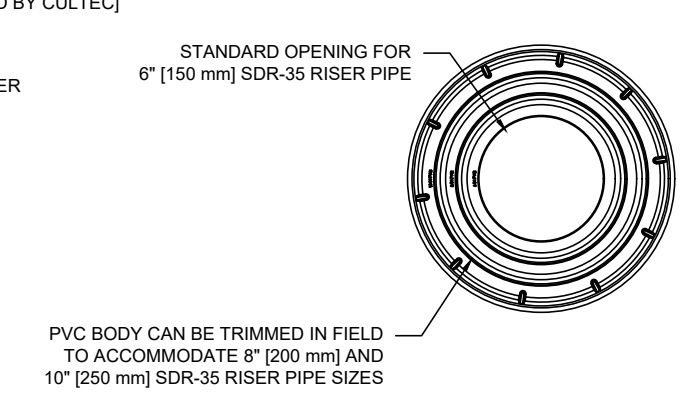
**FINAL ASSEMBLY**



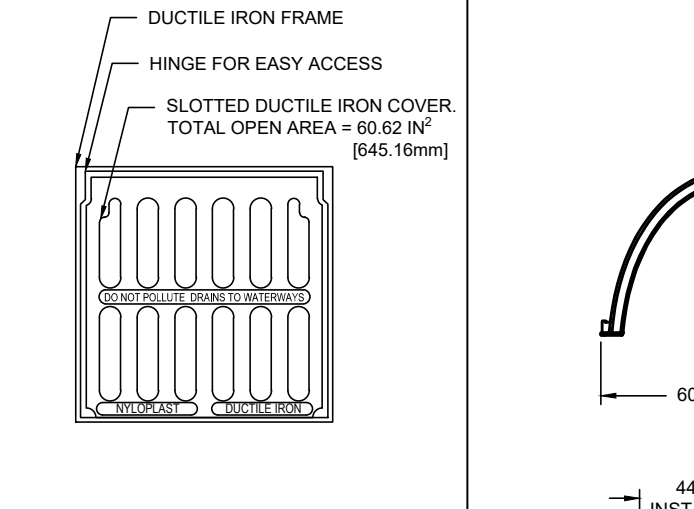
**SOLID COVER OPTION**



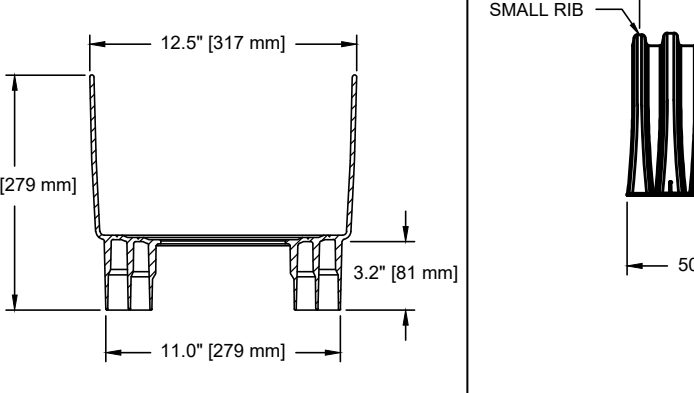
**PVC BODY PLAN VIEW**



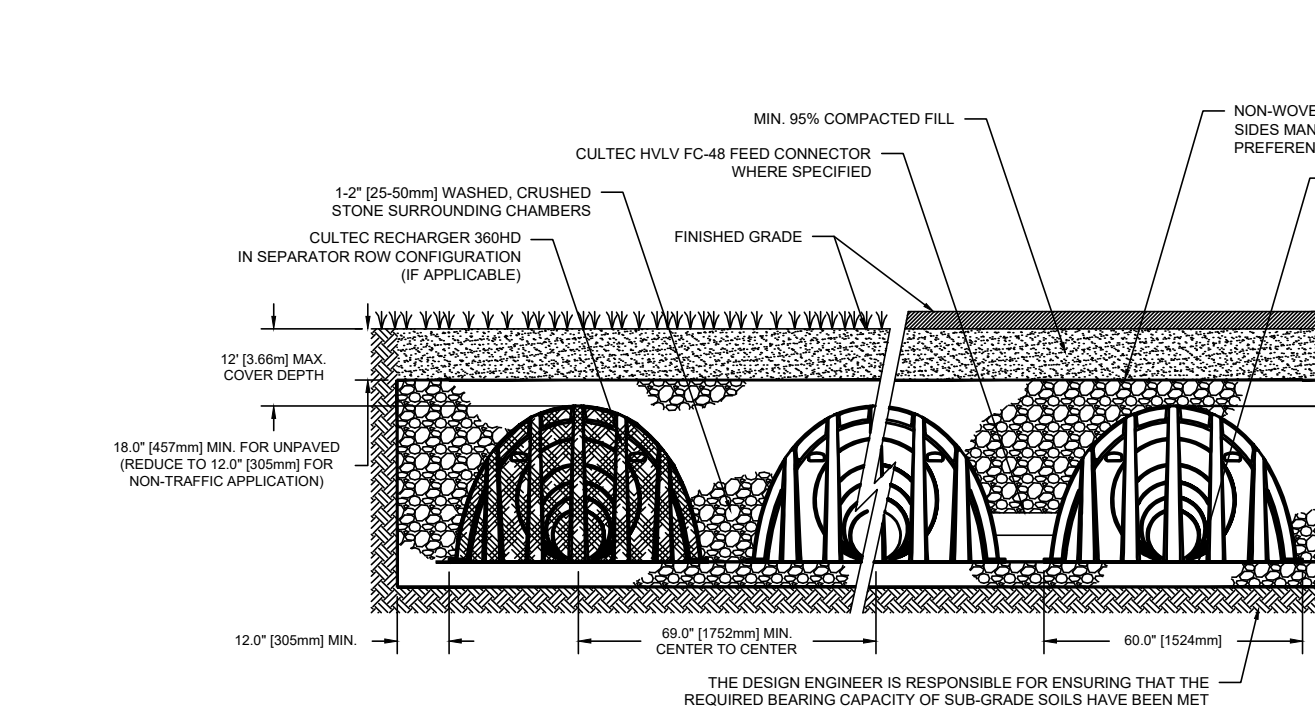
**SLOTTED COVER OPTION**



**PVC BODY ELEVATION VIEW**

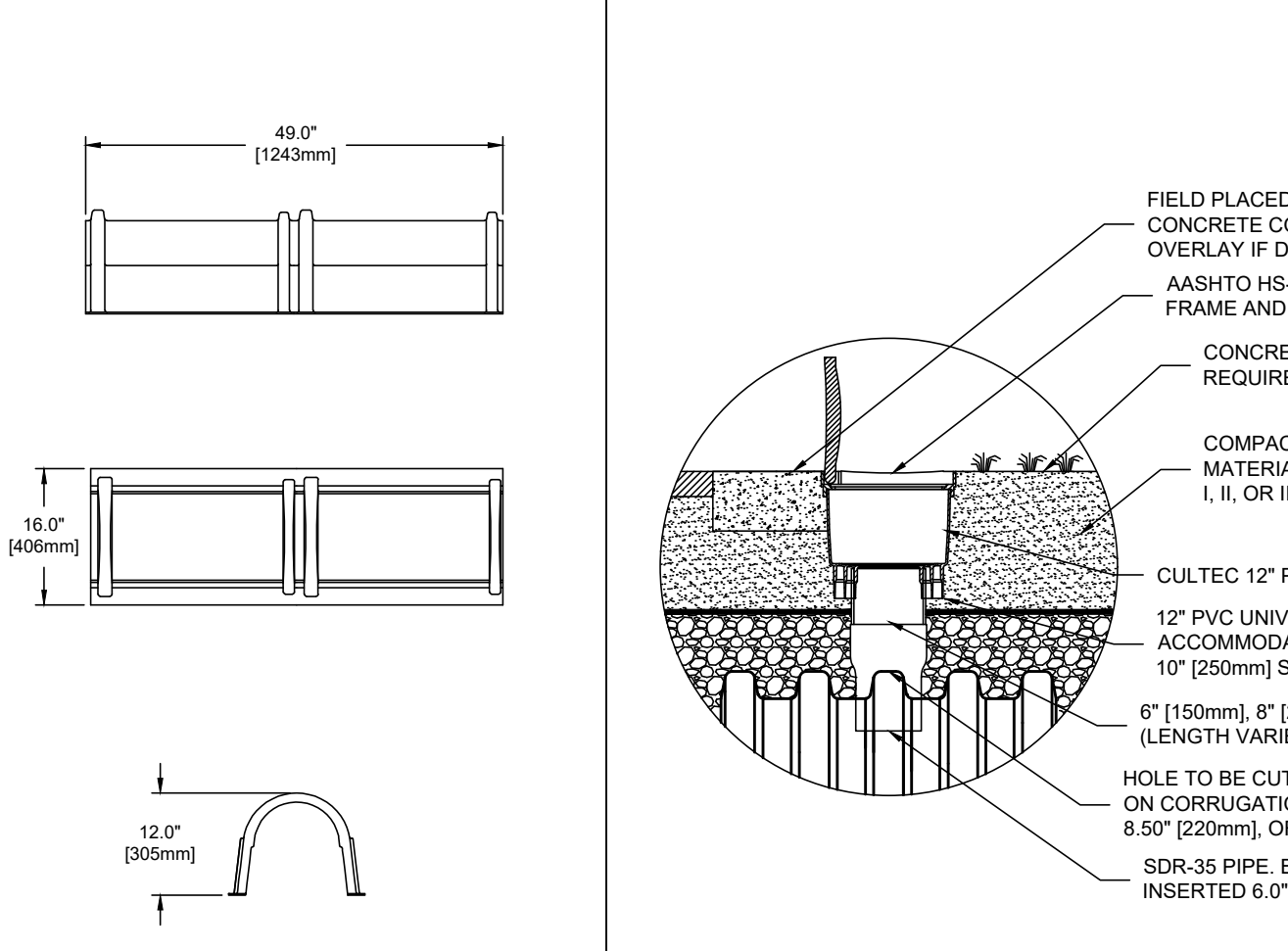


**CULTEC UNIVERSAL INSPECTION PORT KIT DETAIL**



- NOTES:**
- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
    - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
    - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
    - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
  - THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
    - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
    - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
    - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95

**CULTEC RECHARGER 360HD CROSS SECTION**



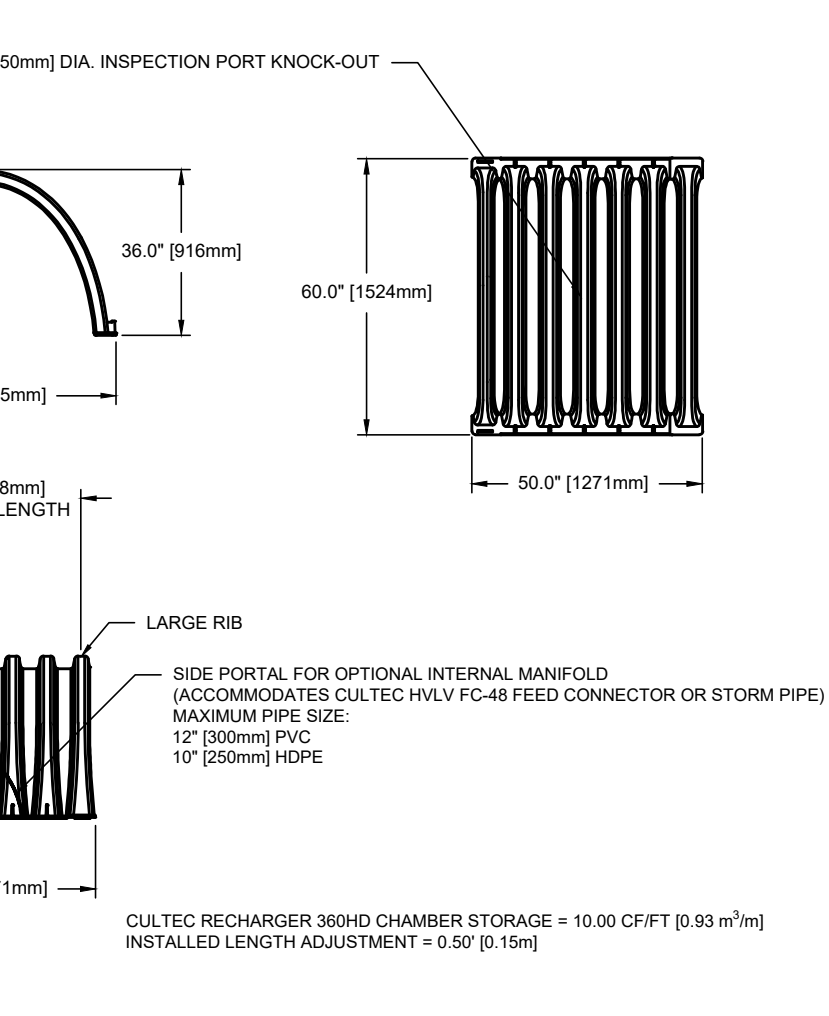
**CULTEC HVLV FC-48 FEED CONNECTOR THREE VIEW**



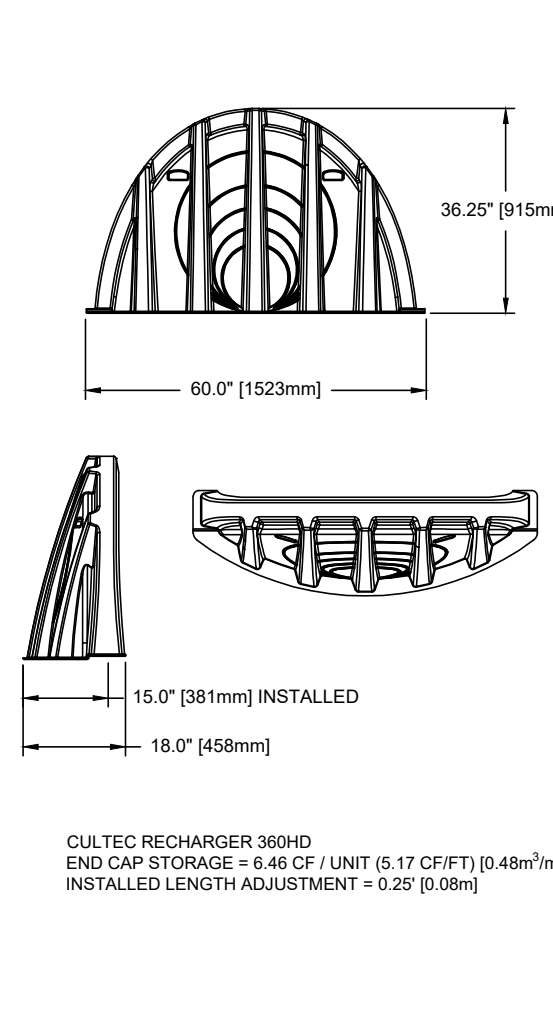
**OPTIONAL CULTEC INSPECTION PORT - ZOOM DETAIL**



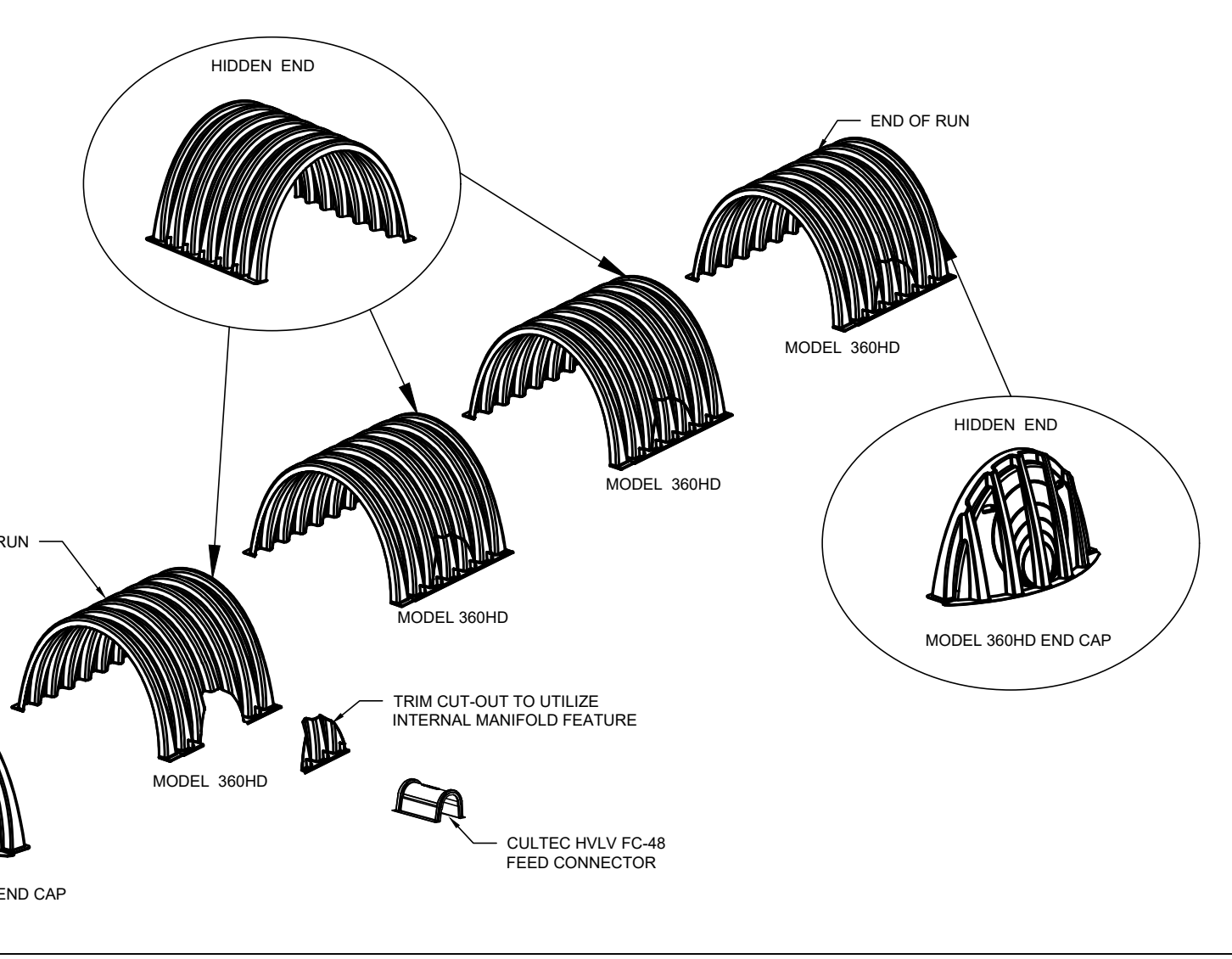
**CULTEC RECHARGER 360HD HEAVY DUTY THREE VIEW**



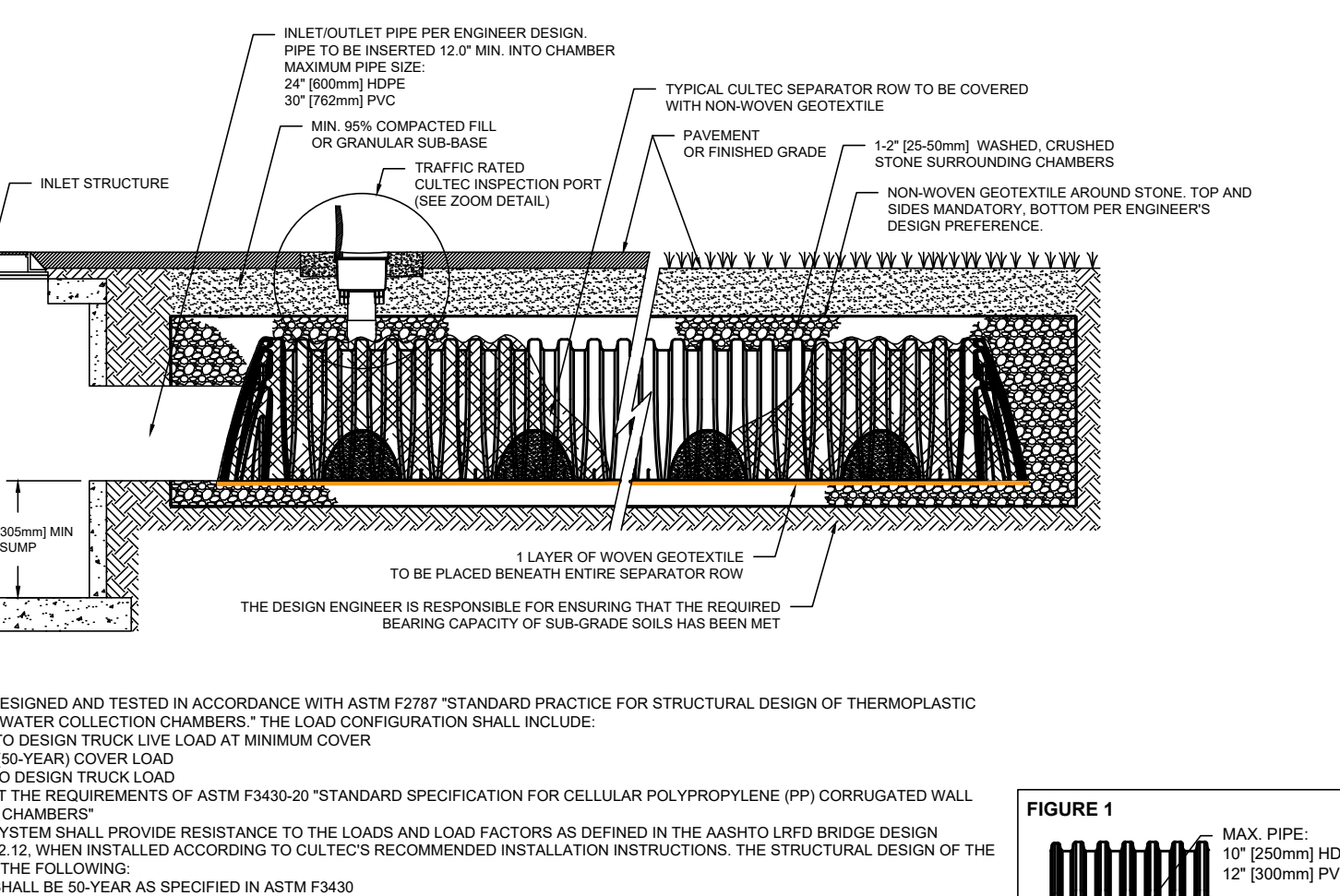
**CULTEC RECHARGER 360HD HEAVY DUTY END CAP THREE VIEW**



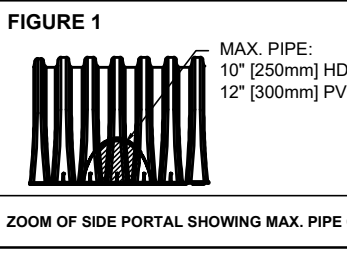
**CULTEC RECHARGER 360HD HEAVY DUTY TYPICAL INTERLOCK**



**CULTEC SEPARATOR ROW - CULTEC INSPECTION PORT DETAIL (IF APPLICABLE)**



- NOTES:**
- THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE LOAD CONFIGURATION SHALL INCLUDE:
    - INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
    - MAXIMUM PERMANENT (50-YEAR) COVER LOAD
    - 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
  - THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
    - THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
    - THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
    - THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.95



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**BANGOR SAVINGS BANK**

111 LOUDON ROAD  
CONCORD, NEW HAMPSHIRE

APPLICANT:  
BANGOR SAVINGS BANK  
P.O BOX 930  
BANGOR, ME 04402

NO.	DATE	DESCRIPTION
REVISIONS		

SCALE:  
AS NOTED

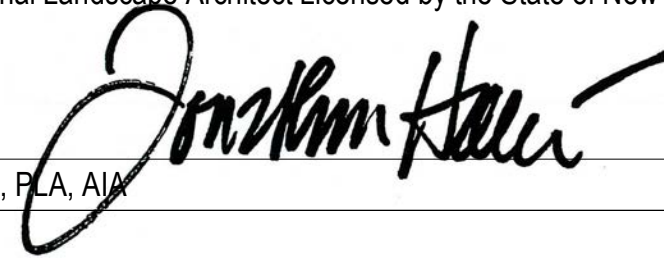
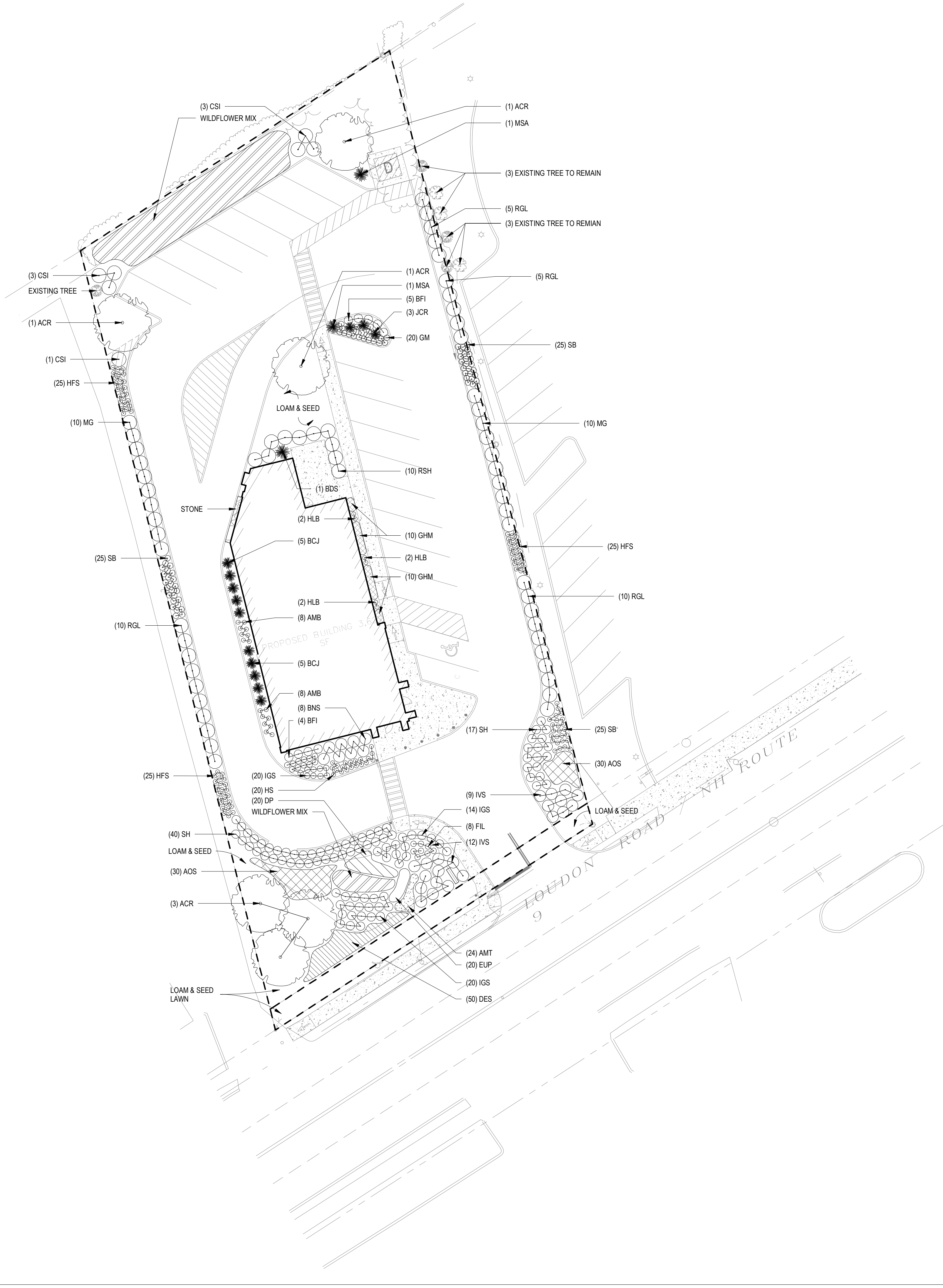
DATE: DEC 2024  
NOBIS PROJECT NO. 100165.00  
DRAWN BY: KLR  
CHECKED BY: JIR  
CAD DRAWING FILE:  
100165.000-C-700-DETAILS.dwg

**CONSTRUCTION DETAILS**

SHEET  
**C-6.3**

I, Jonathan Halle, hereby Certify that I am the designer of this Landscape Plan and that I am a Professional Landscape Architect Licensed by the State of New Hampshire.

Jonathan Halle, P.L.A., AIA







three inches = one foot  
 one and one half inches = one foot  
 one inch = one foot  
 one quarter inch = one foot  
 three quarter inch = one foot  
 one quarter inch = one foot  
 one eighth inch = one foot

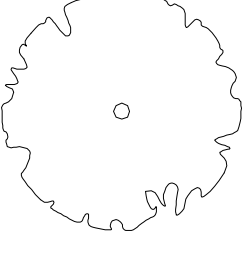
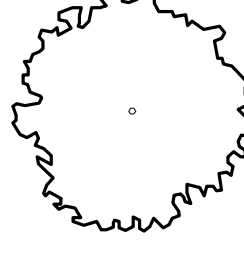
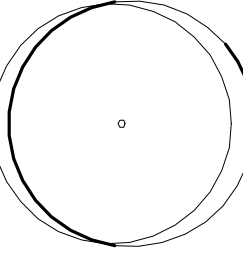
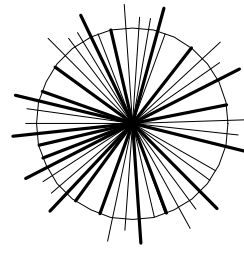
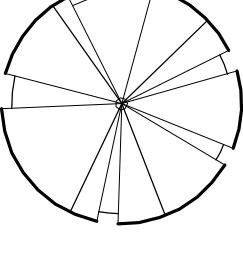
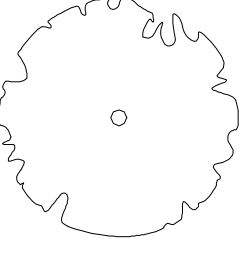
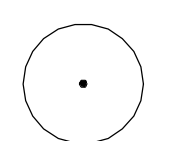

Autodesk Docs: 0728 Bangor Savings - Loudon 3728 BANGOR SAVINGS - LOUDON LANDSCAPE PLAN  
 TEMPLATE DATE: 11/25/2019

1 LANDSCAPE PLAN  
1" = 20'-0"

**SIGN LEGEND**

<b>TEXT</b> SEE MUTCD FOR TEXT DIMENSIONS	
IDENTIFICATION NUMBER	SIZE WIDTH/HEIGHT
TEXT DIMENSIONS	
	
R1-1	30"X30"
SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS	
	
R7-8	12"X18"
SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS	
	
R7-8P	18"X9"
SEE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS	

**TREE LEGEND**

	
SHADE 1	SHADE 2
	
SHADE 3	EVERGREEN 1
	
EVERGREEN 2	ORNAMENTAL
	
SHRUB 1	SHRUB 2



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**CONSULTANTS:**  
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**LANDSCAPE**  
WARRENSTREET ARCHITECTS  
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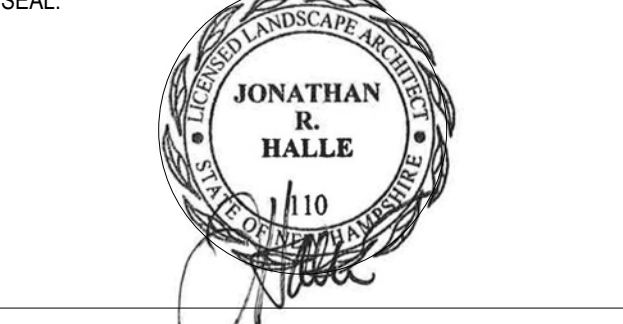
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**ELECTRICAL**  
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PROJECT TITLE / ADDRESS:  
**BANGOR SAVINGS BANK - LOUDON**  
111 LOUDON RD  
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PLAN KEY:

SCALE: AS NOTED DWN BY: EH  
PROJECT #: 3728 CHK BY: JH  
PRINT DATE: 12/17/2024 3:09:52 PM

ISSUE DATE: 12/17/2024  
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REV.	DATE	COMMENTS

LANDSCAPE SITE PLAN

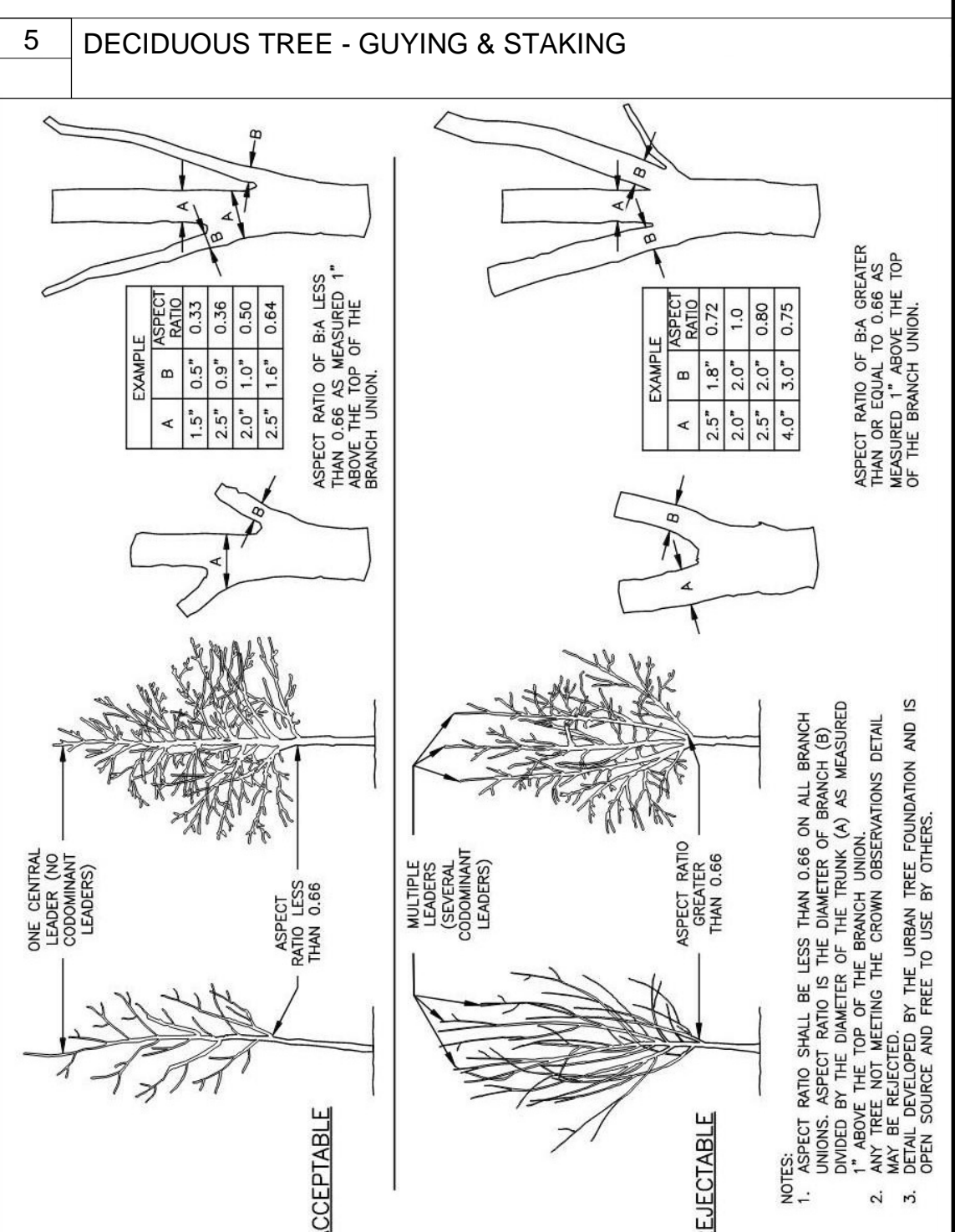
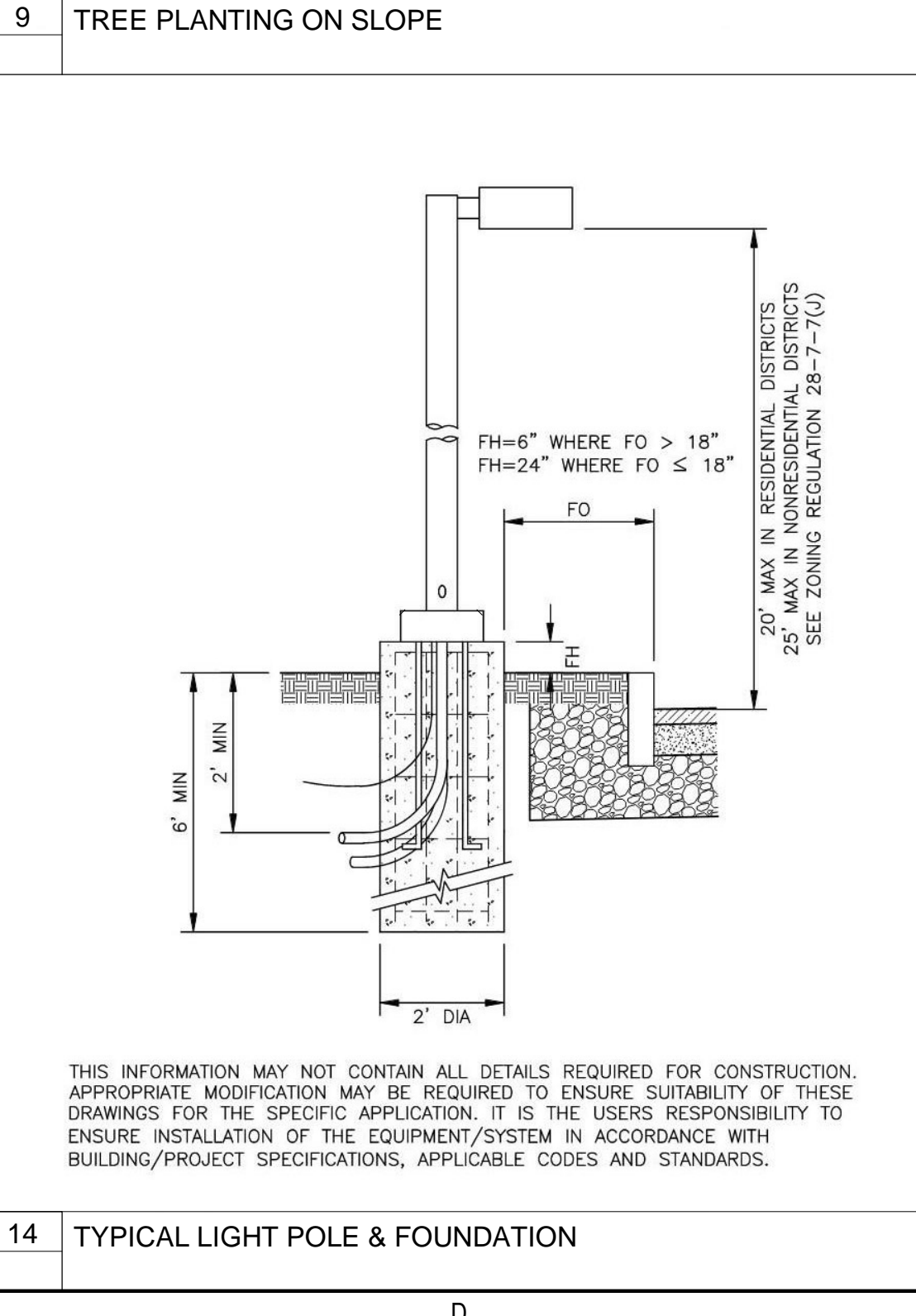
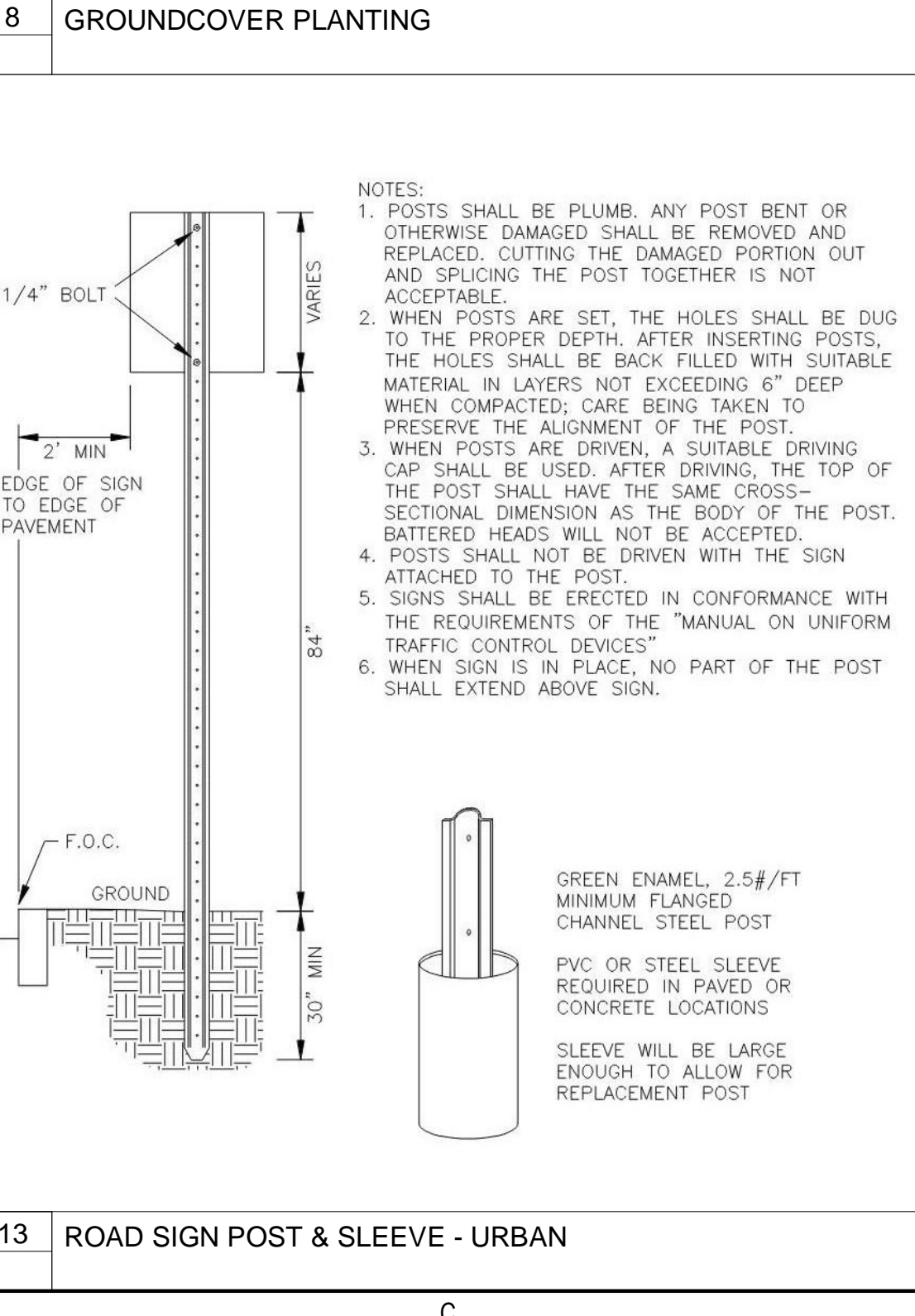
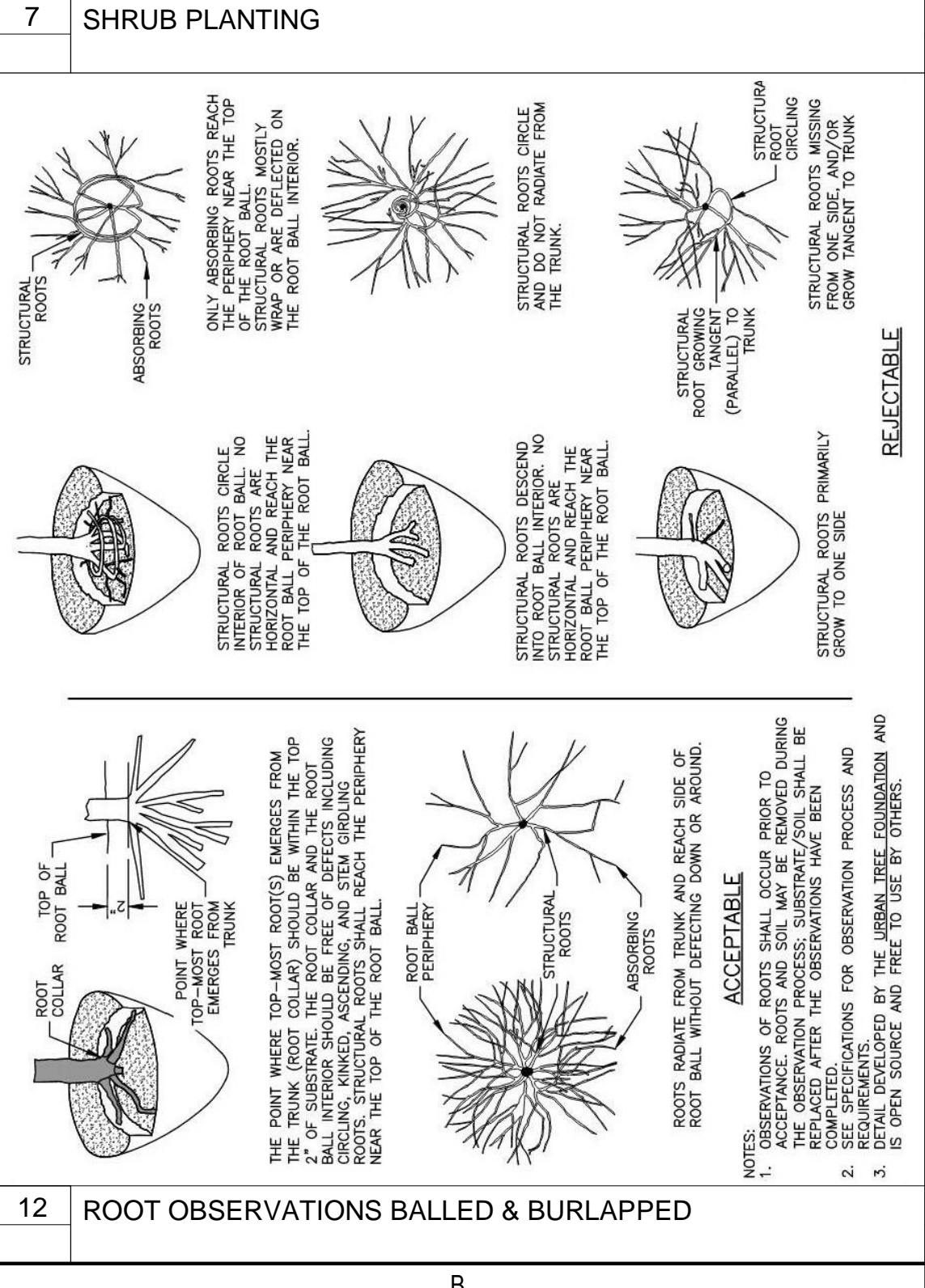
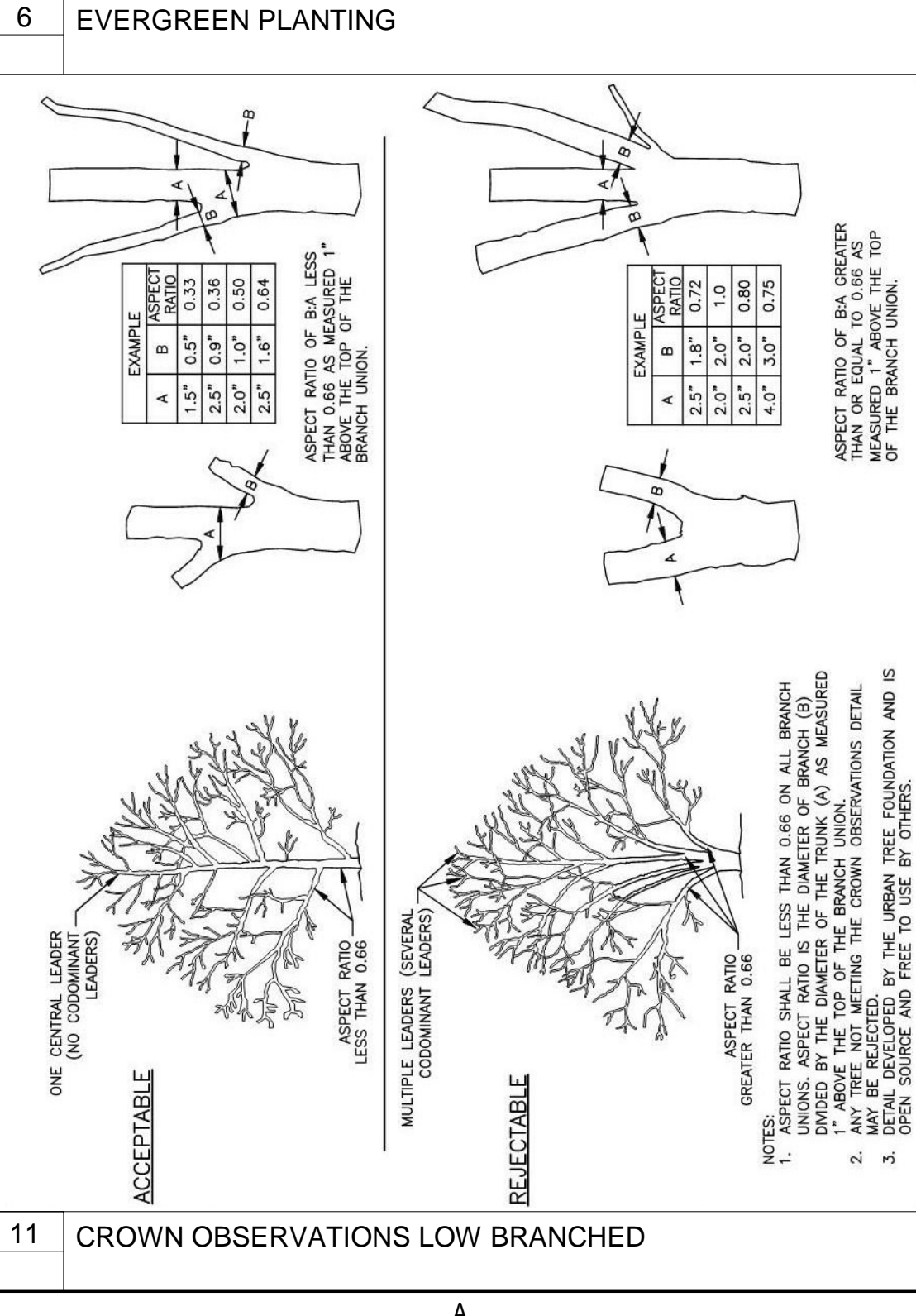
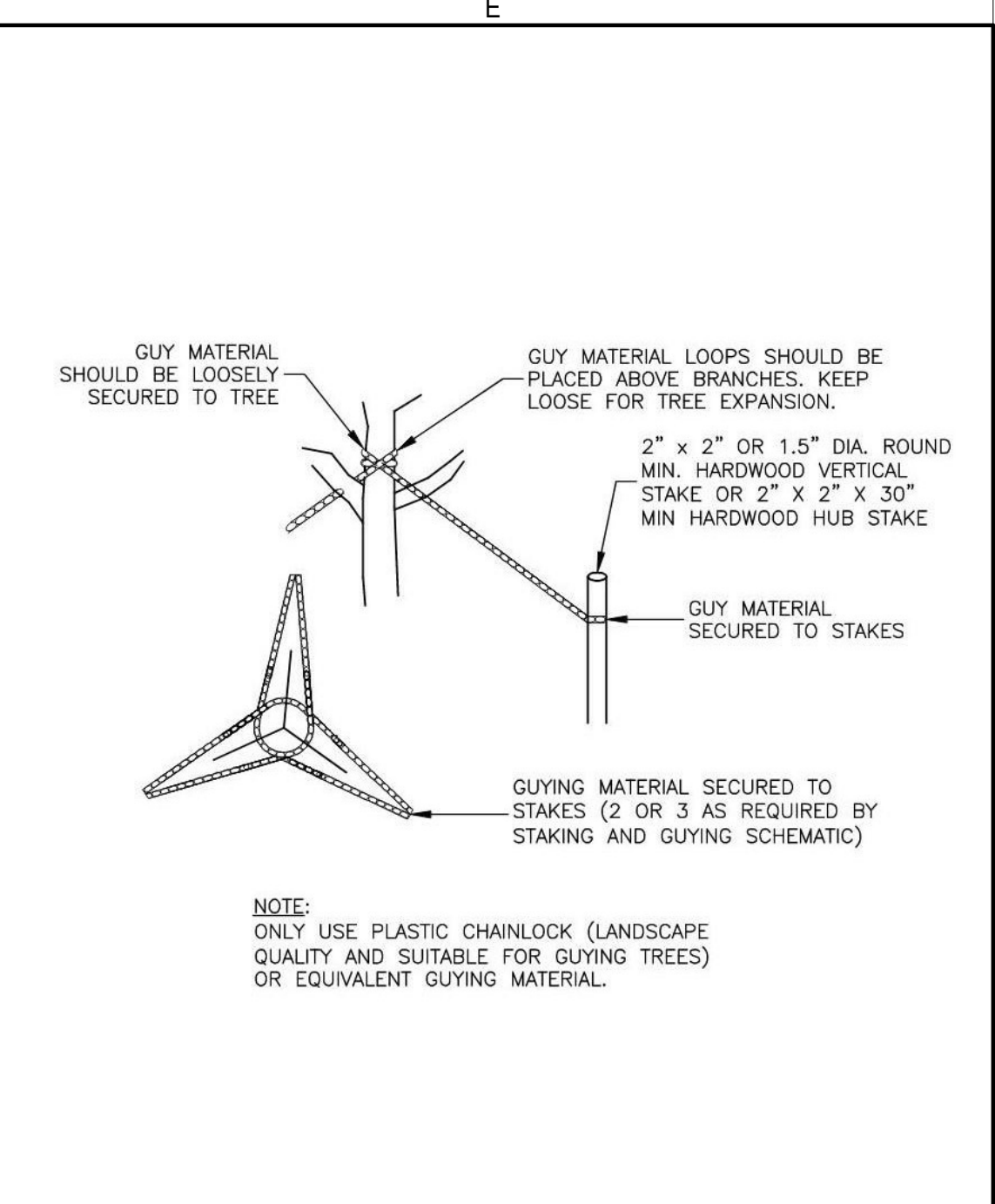
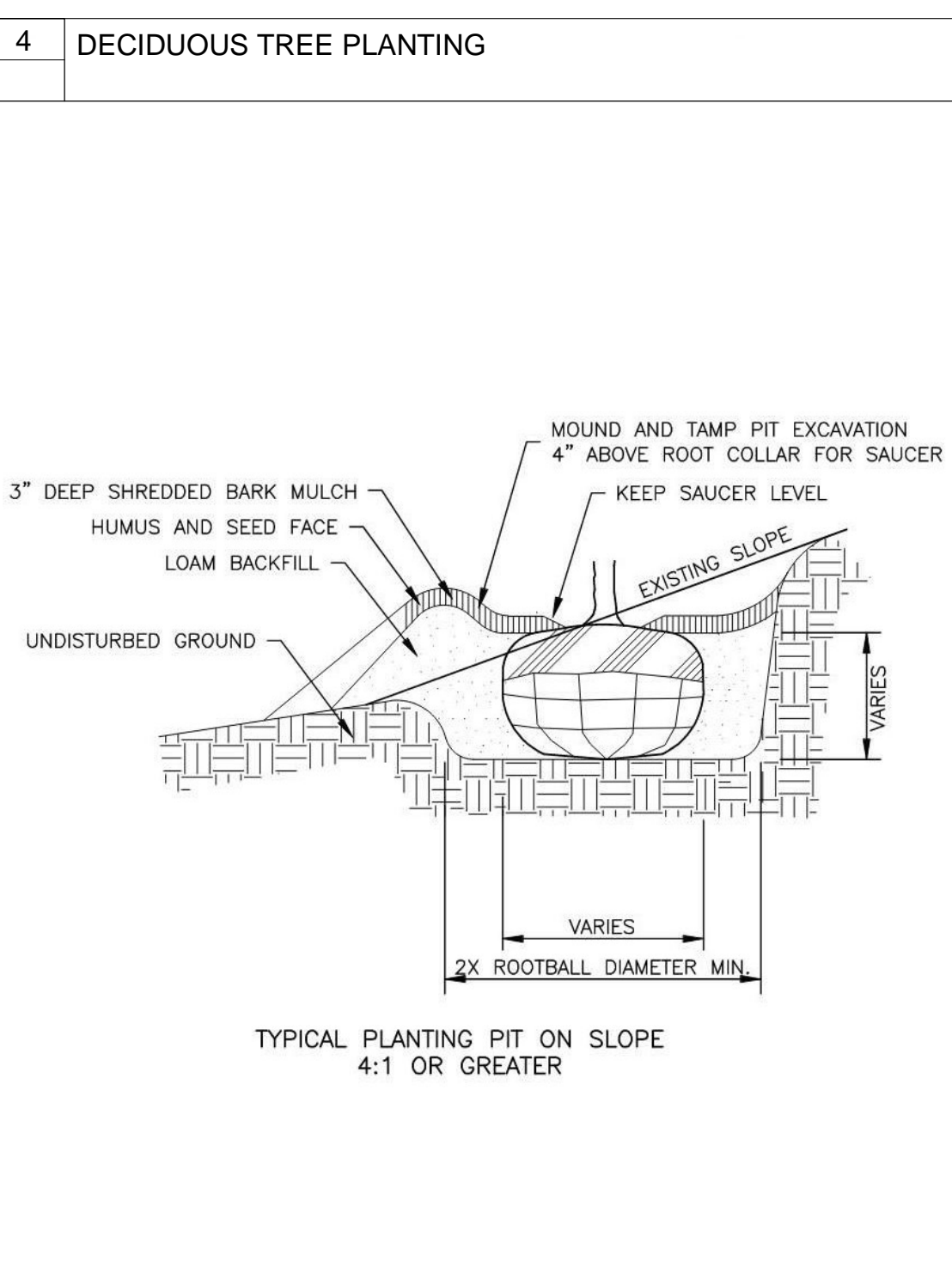
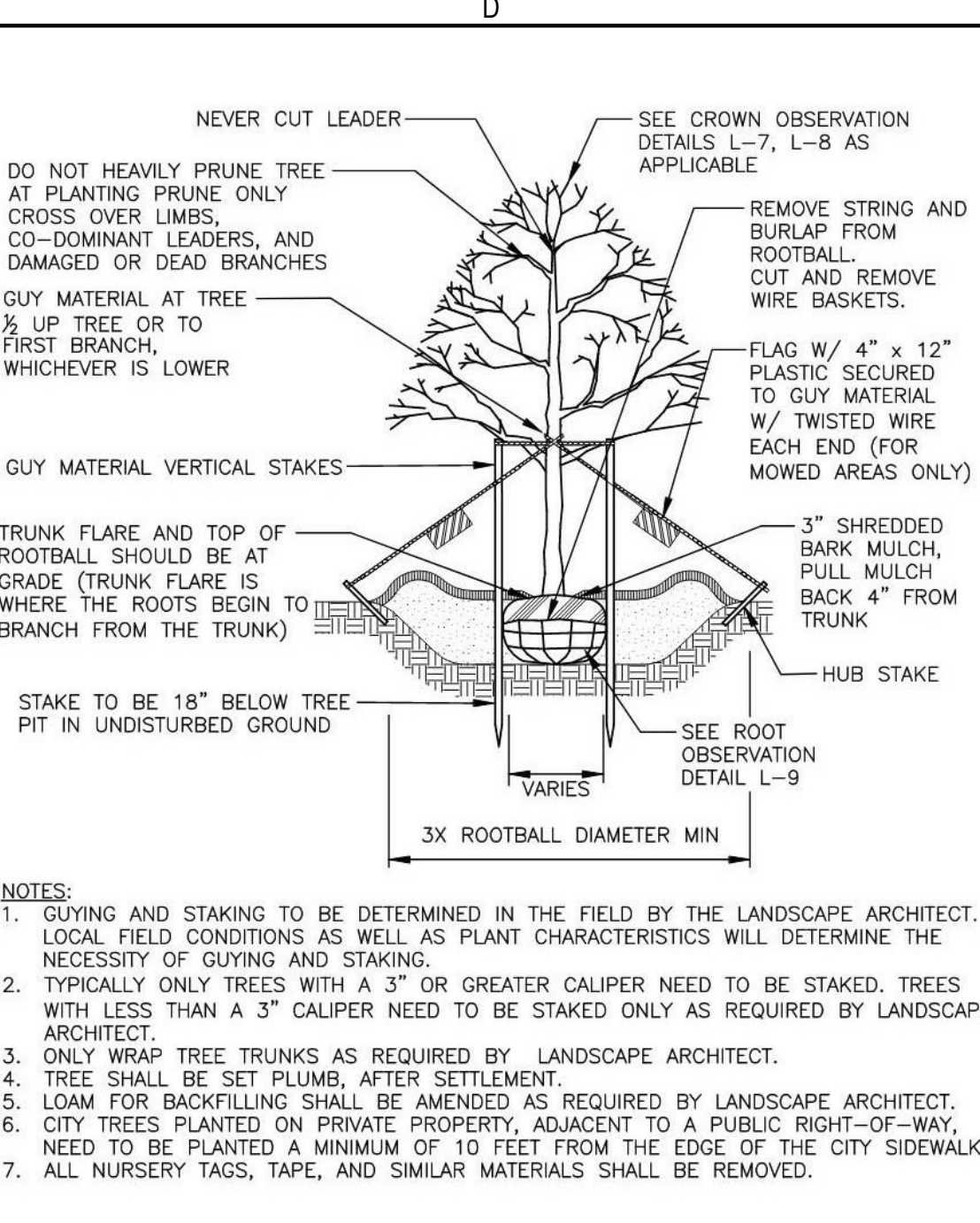
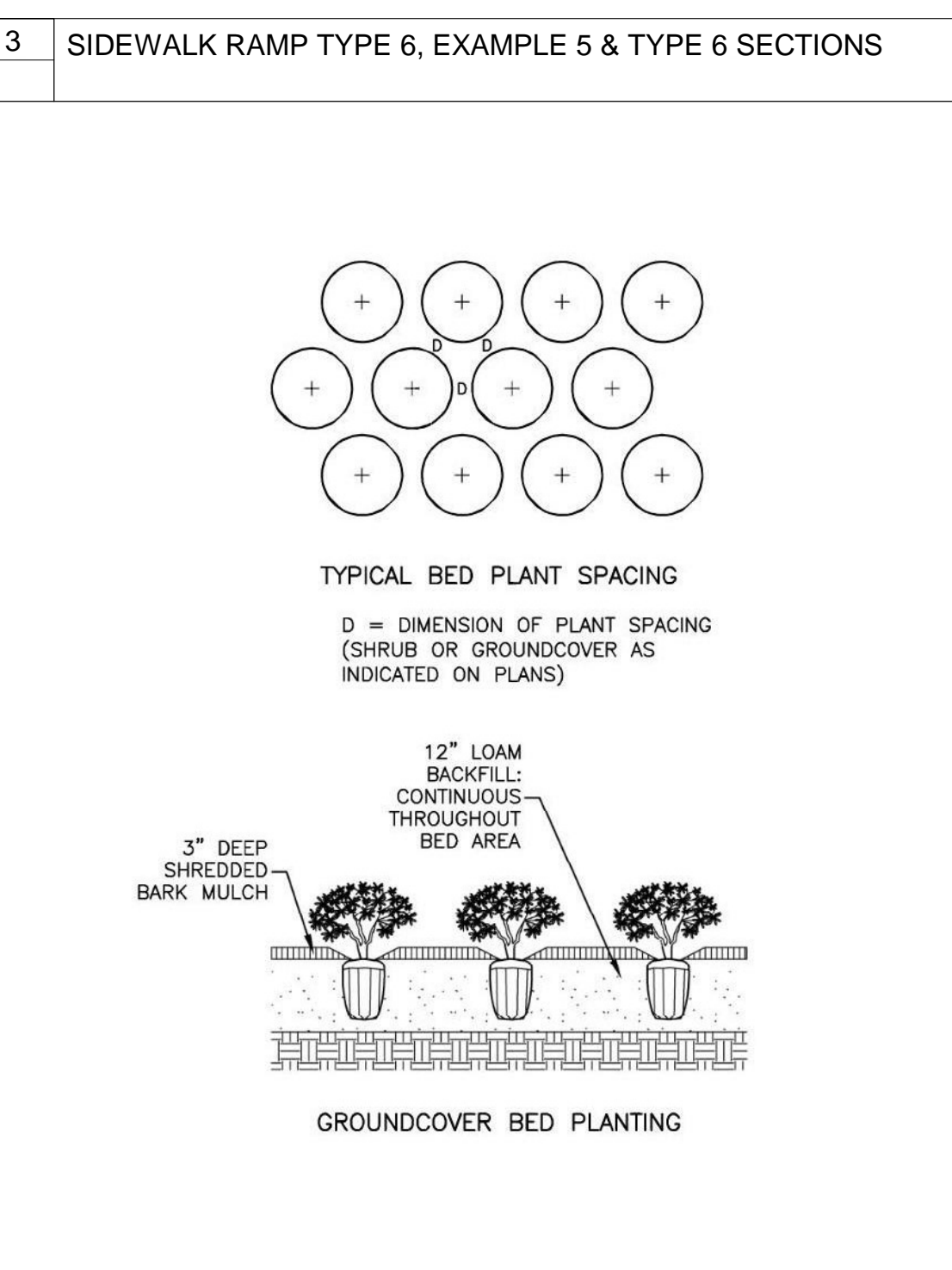
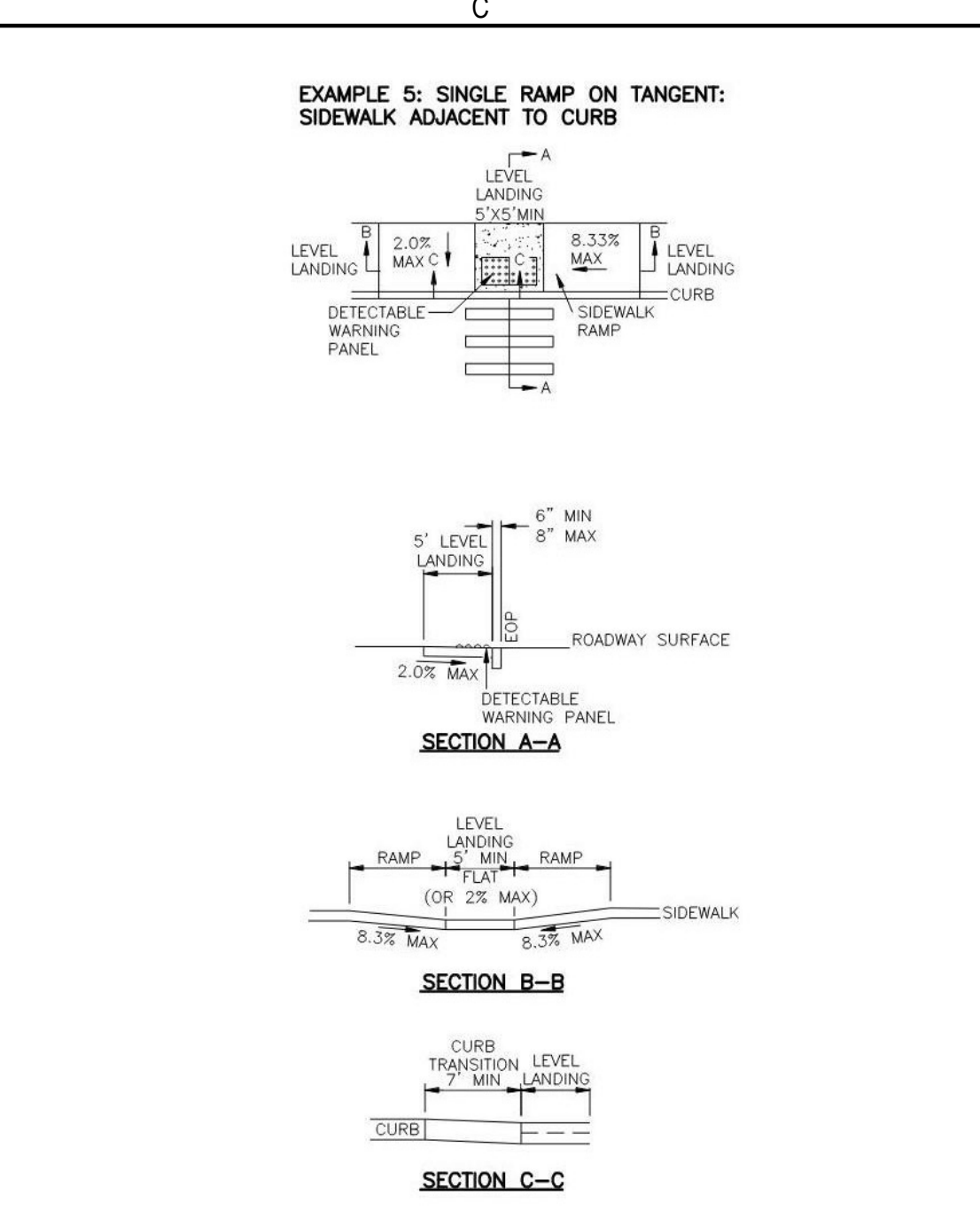
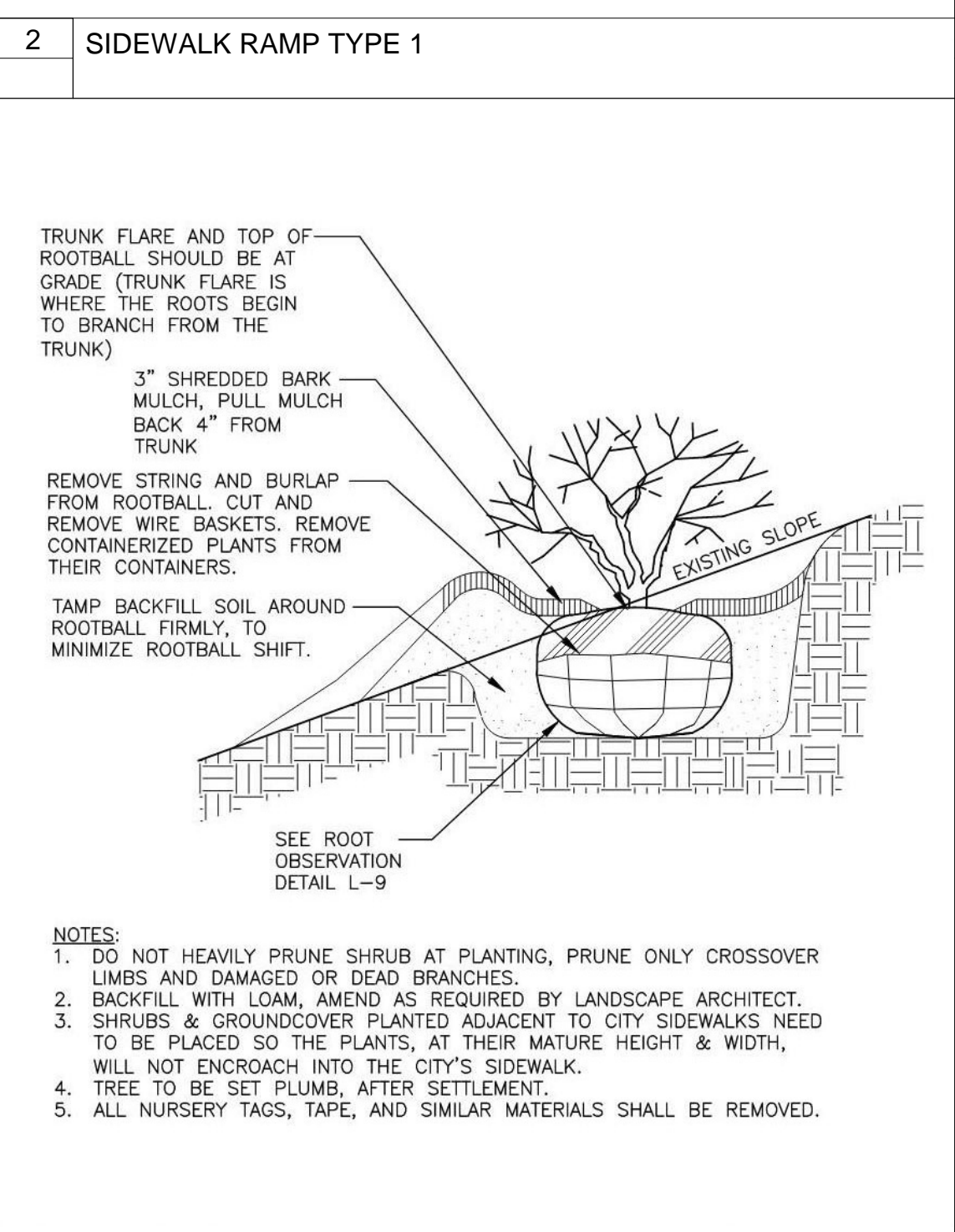
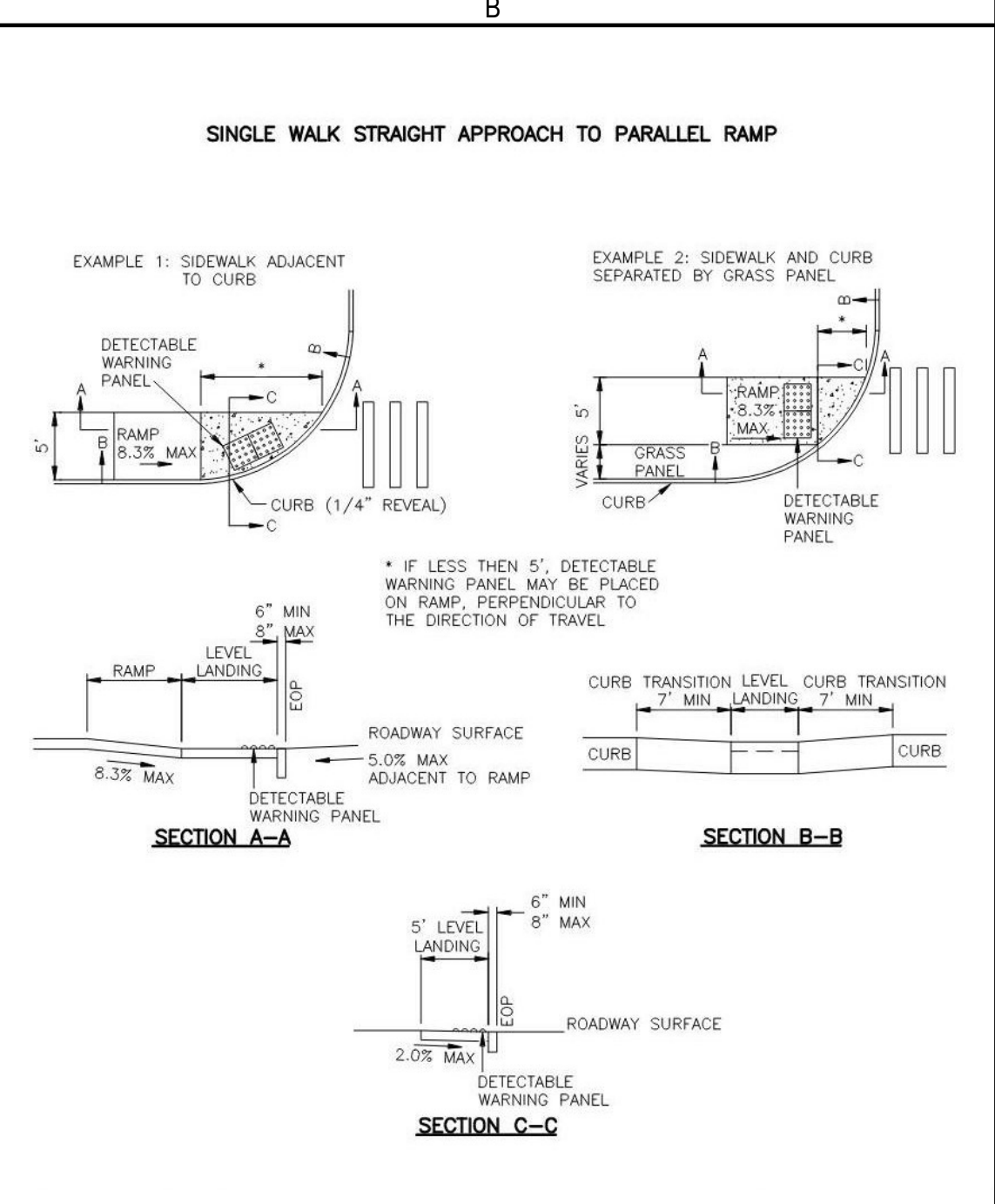
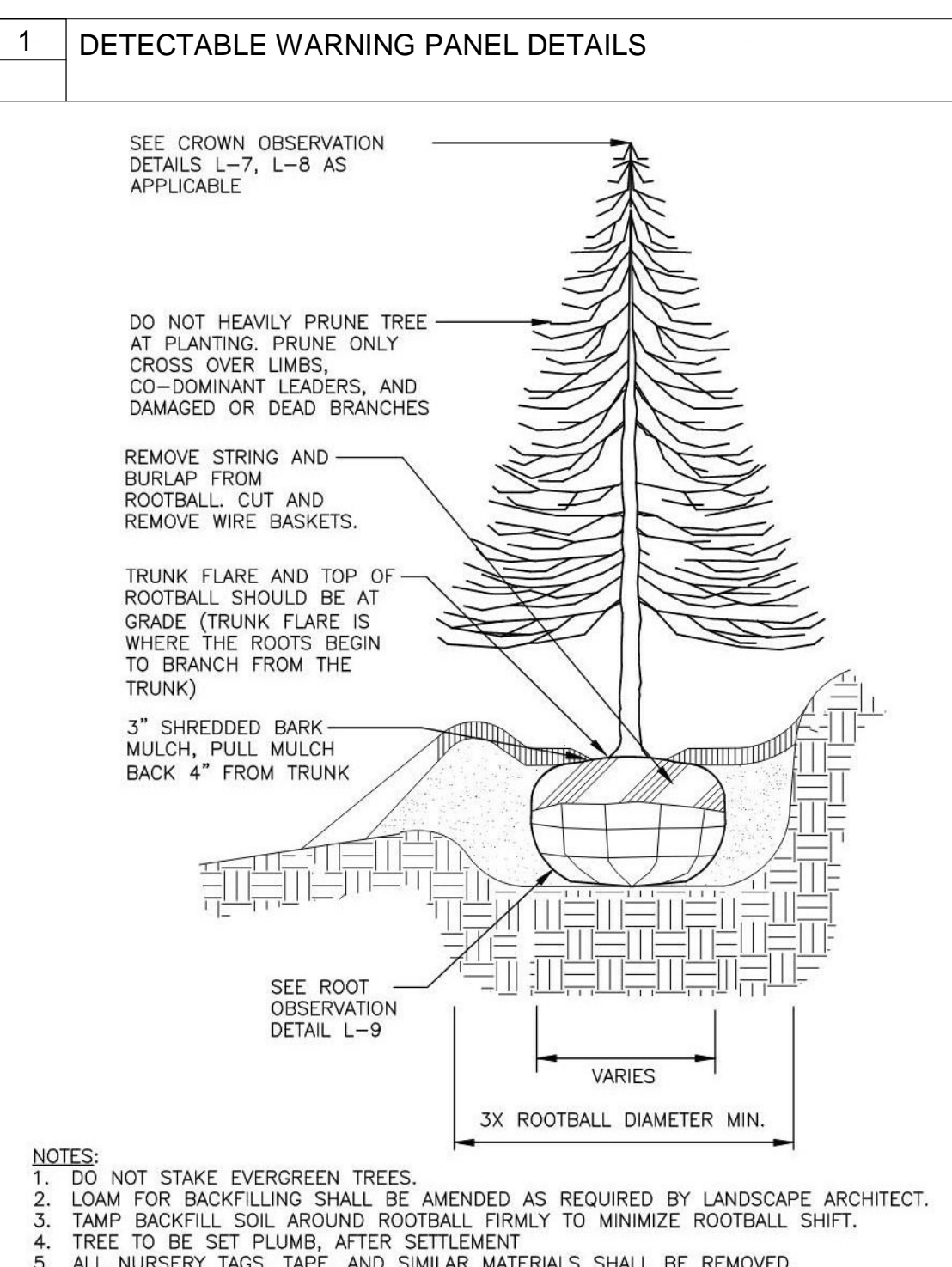
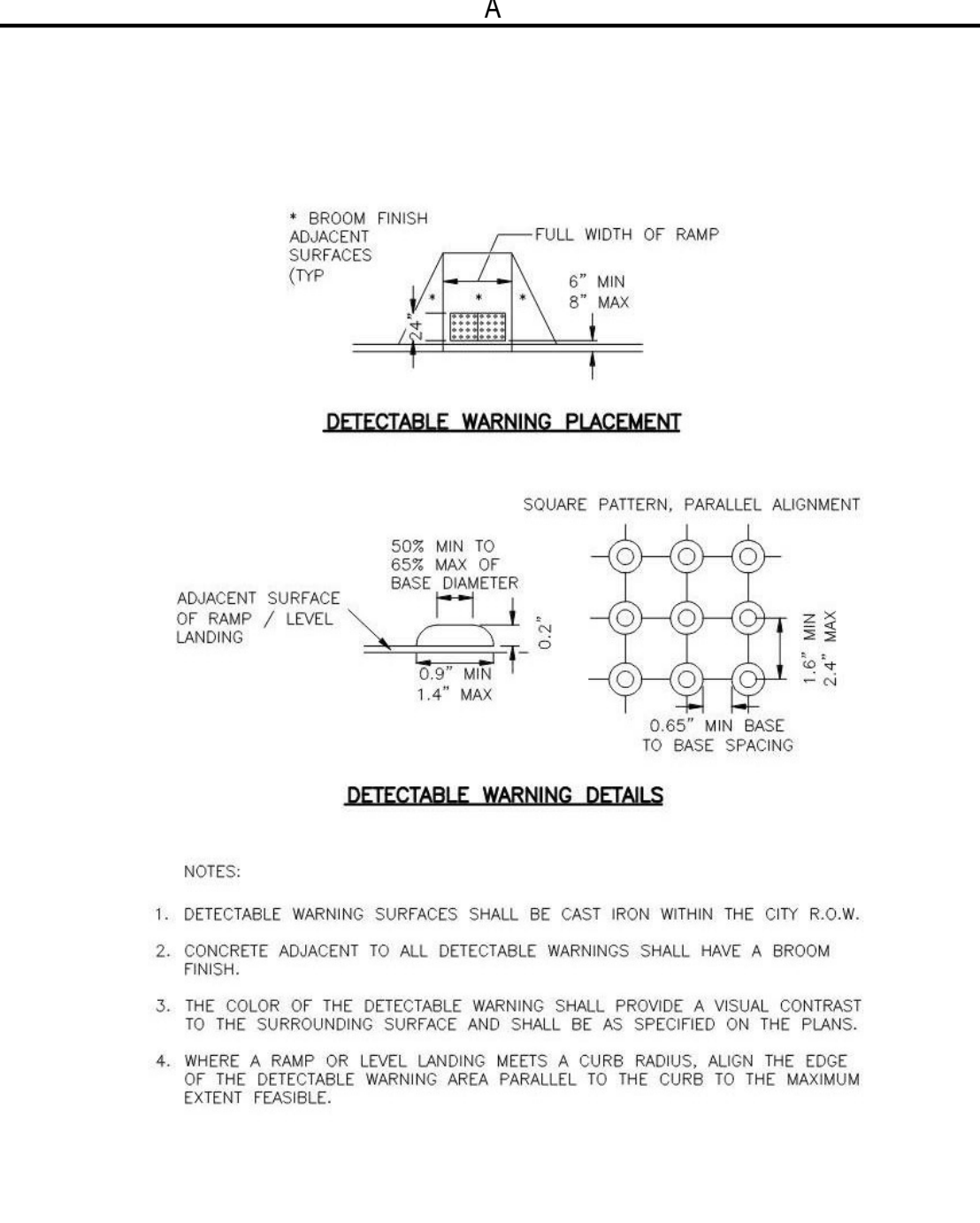
**LA101**

SHEET NUMBER: 1 OF 8 LANDSCAPE  
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**CONSTRUCTION MANAGER**  
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**LANDSCAPE**  
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**PROJECT TITLE / ADDRESS:**  
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 111 LOUDON RD  
 CONCORD, NH 03301

**PLAN KEY:**

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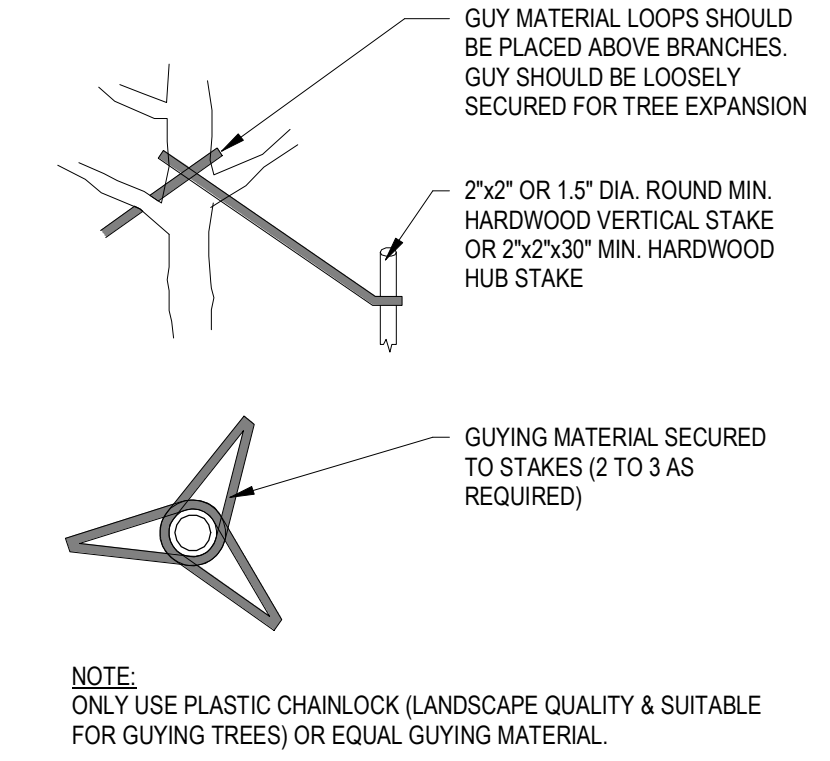
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SHEET NUMBER: OF 8 LANDSCAPE

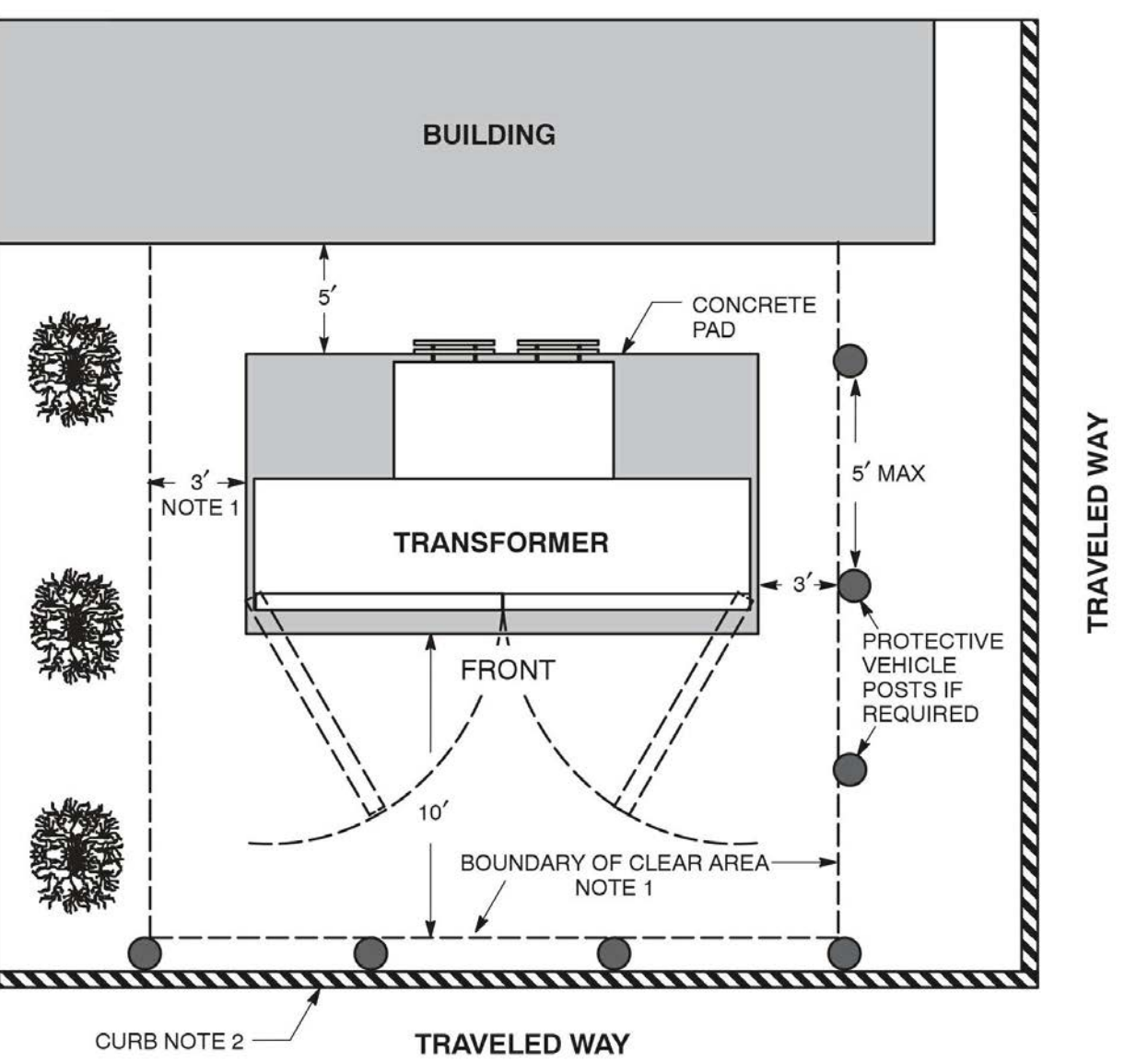
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 one and one half inches = one foot  
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 three quarter inch = one foot  
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 one eighth inch = one foot  
 11/22/2019

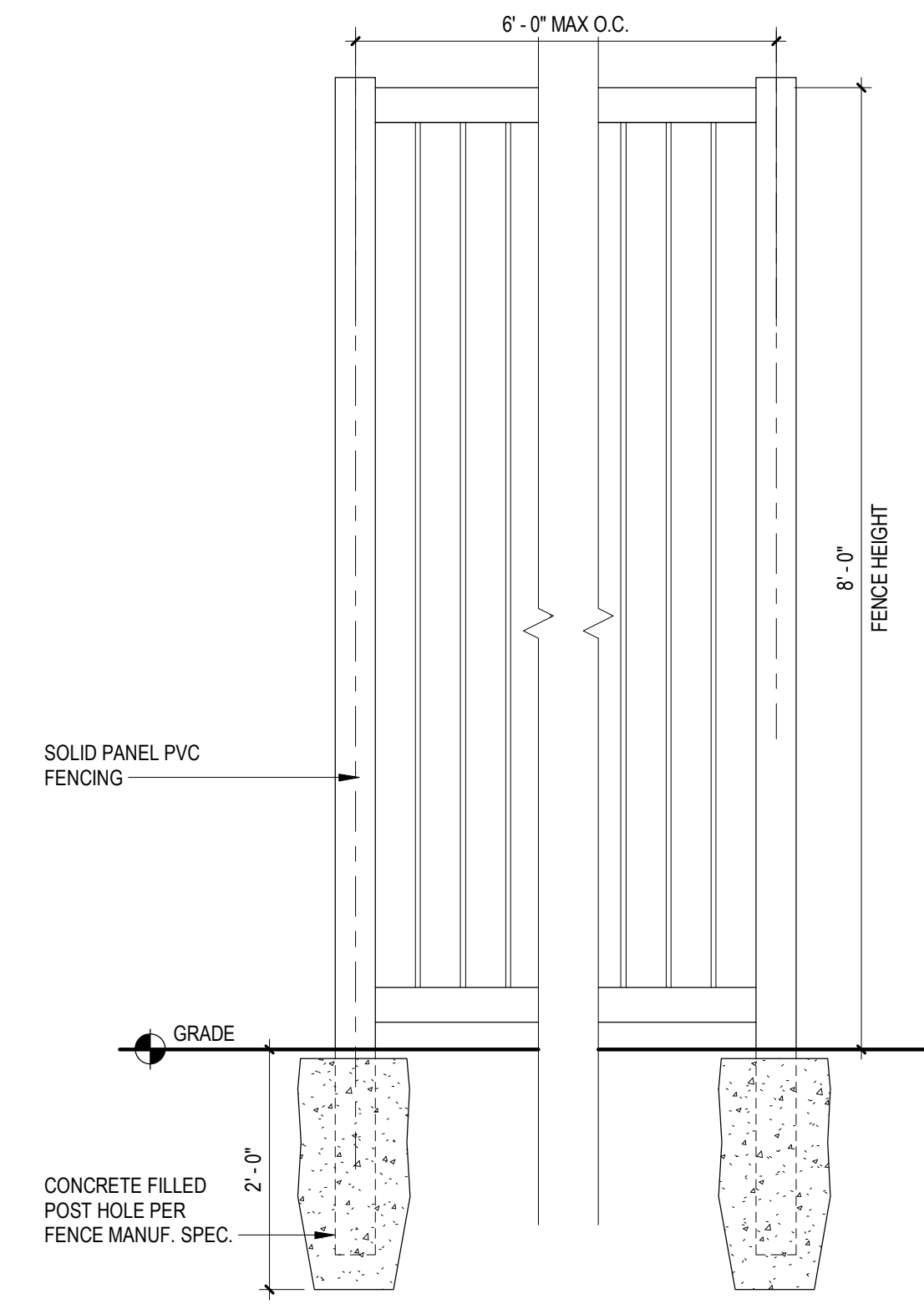


1 DECIDUOUS TREE - GUYING & STAKING  
 3/4" = 1'-0"

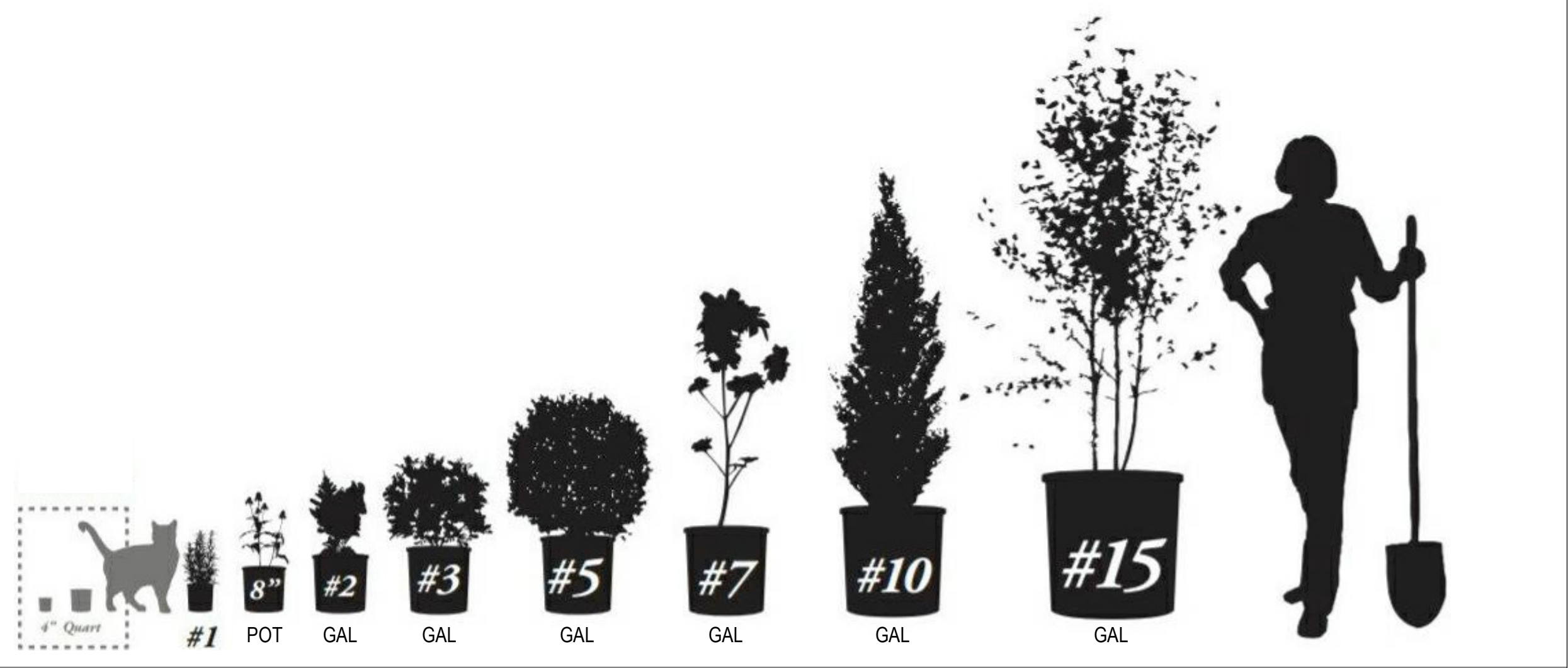


- Notes**
- To inspect, provide access, operate elbow connectors and ventilate the transformer, the above specified clear area distances to buildings or shrubs shall be maintained. The distance from the building to the concrete transformer pad. Property line shall be considered an obstruction, since fences, shrubs, etc. may be installed at a future date by adjacent property owners. Because of the possibility of cooling fins overhanging the pad, side clearances to be increased to 5 feet for transformers 1000 kVA and larger.
  - If no curb exists, or transformer is located closer than 10 feet to the traveled way, protective vehicle posts (●) shall be installed as specified in **DTR 42.061**.
  - Top of transformer pad shall be installed 3 inches above final grade.
  - Transformer shall not be located on steep grades where access to or elbow operation is made difficult.
  - Transformer shall meet the minimum distances to doors, windows, fire escapes, air intakes and walls as specified in **DTR 42.061**.
  - Transformer *is not* to be located with its doors facing the building.
  - Refer to **DTR 58.301** for specific instructions on the installation of the transformer pad.
  - Refer to **DTR Section 06.32** and **DTR 58.311** (NH) for information on environmental considerations.

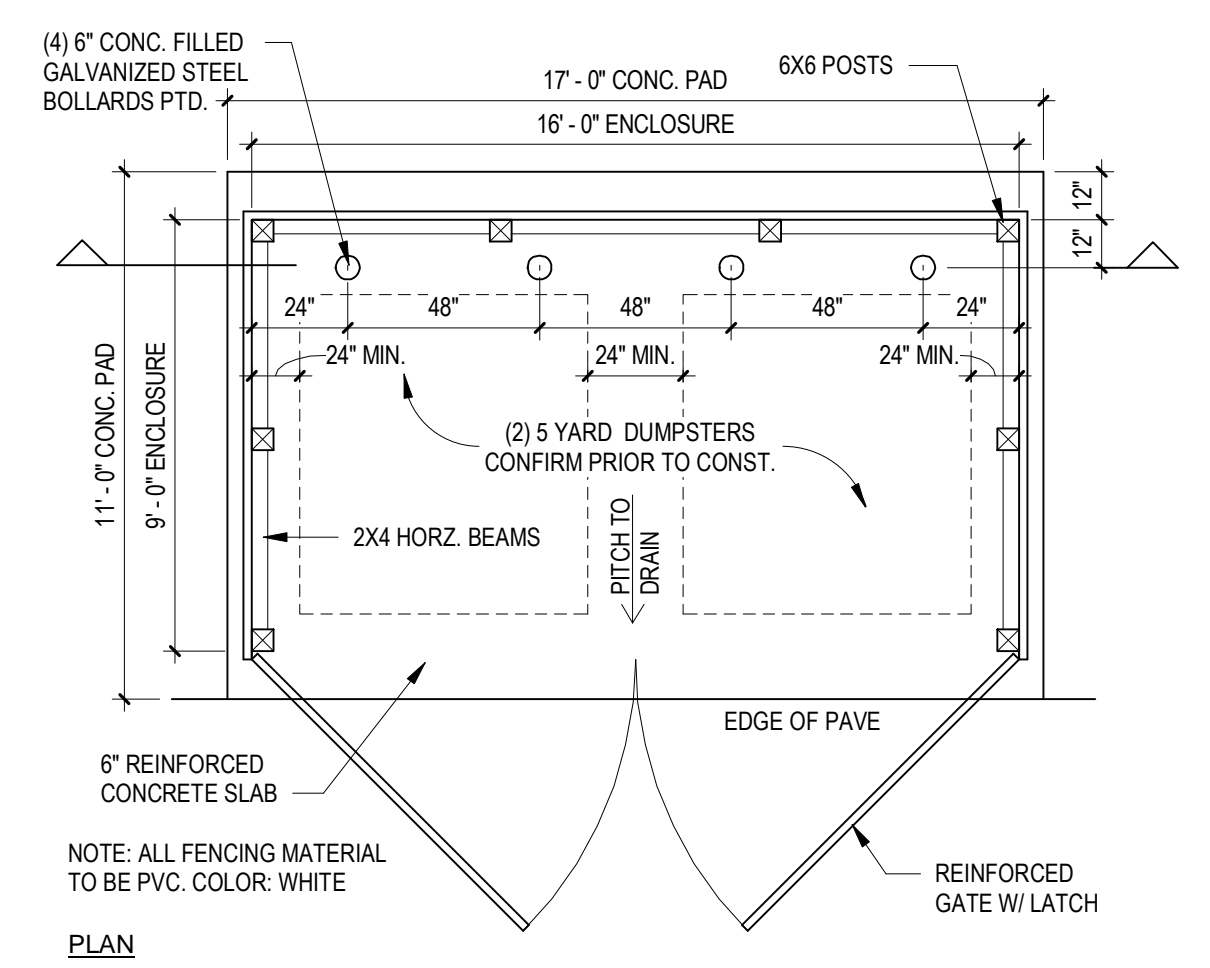
**TRANSFORMER PAD & CLEARANCES**



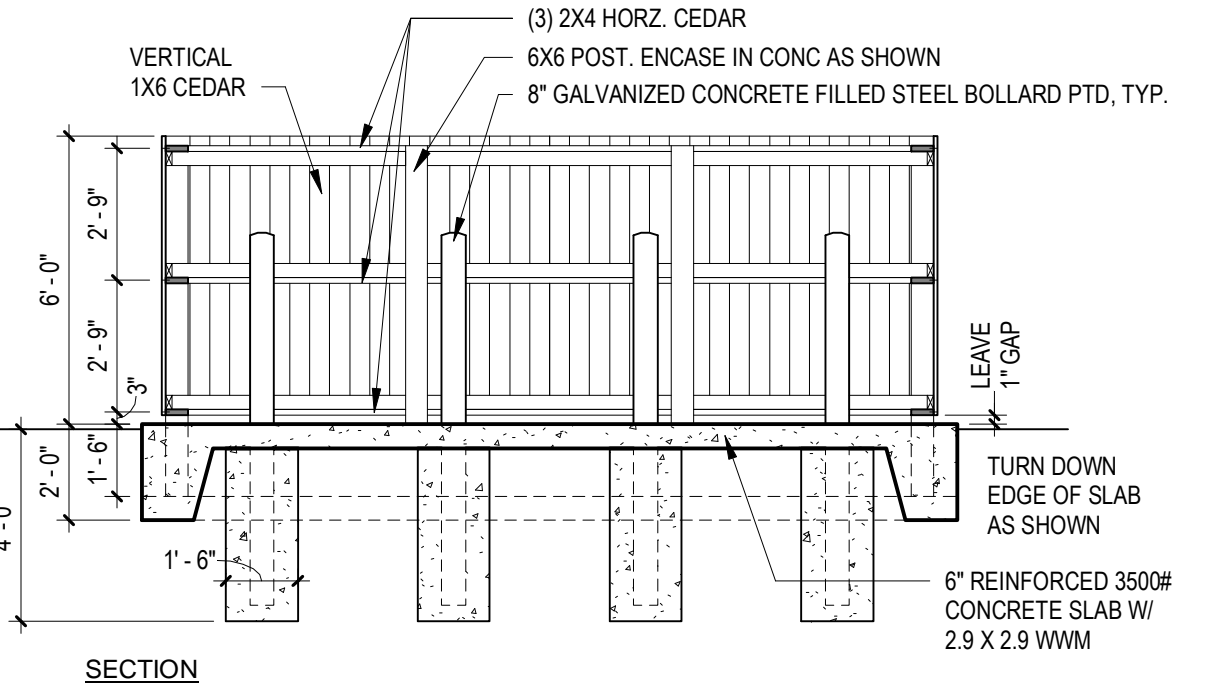
2 PVC PANEL FENCING  
 3/4" = 1'-0"



**PLANTING RECEPTACLE SIZES**



- NOTES:**
- DUMPSTER PADS AND ASSOCIATED SCREENING SHALL BE PLACED WHERE THE REFUSE BINS CAN BE UNLOADED WITH A SINGLE TURNING MOVEMENT WITH A 35° FRONT LOADING TRUCK. THE WIDTH OF THE GATE SHOULD BE TAKE INTO ACCOUNT WHEN REVIEWING TURNING MOVEMENTS. GATES SHALL BE PROVIDED UNLESS THE DUMPSTER IS BLOCKED FROM VIEW FROM THE PUBLIC RIGHT-OF-WAY AND ABUTTING PROPERTIES BY BUILDINGS OR WALLS.
  - TRASH CONTAINERS SHALL BE LOCATED A MINIMUM DISTANCE OF 25' FROM ANY DRAINAGE STRUCTURE, INLET OR STORMWATER FACILITY.



3 LA - DUMPSTER ENCLOSURE  
 1/4" = 1'-0"

**OWNER**  
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 BANGOR, ME 04402  
 P. (857) 226-4671

**CONSTRUCTION MANAGER**  
 TBD

**CONSULTANTS:**  
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**LANDSCAPE**  
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**ELECTRICAL**  
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**PROJECT TITLE / ADDRESS:**  
**BANGOR SAVINGS BANK - LOUDON**  
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**LANDSCAPE STANDARD DETAILS**

**LA104**

SHEET NUMBER: 4 OF 8 LANDSCAPE

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LANDSCAPE GENERAL SPECIFICATIONS, CONT.

B. SOD: UPON DELIVERY OF SOD TO THE WORK SITE... USE ALL MEANS NECESSARY TO PROTECT AND MAINTAIN THE SOD BEFORE, DURING AND AFTER INSTALLATION... DELIVERY OF SOD SHALL BE CAREFULLY COORDINATED SO ITS PLACEMENT CAN PROCEED DIRECTLY AFTER ITS ARRIVAL...

PART 2: MATERIALS

2.1 TOPSOIL
A. TOPSOIL REQUIRED SHALL BE OBTAINED FROM ON-SITE STOCKPILED MATERIAL WHICH WILL BE PLACED BY THE SITE CONTRACTOR... SHOULD ADDITIONAL TOPSOIL BE NEEDED TO BRING LANDSCAPE AREAS UP TO GRADE, THEN IT SHALL BE FURNISHED AND PLACED BY THE SITE CONTRACTOR, WITH IMPORTED MATERIAL FROM A LOCALLY APPROVED SOURCE...

2.2 SEED
A. GENERAL:
1. CONTRACTOR SHALL SUBMIT CERTIFICATION TAGS FOR APPROVAL. ALL GRASS SEED SHALL BE:
• FREE FROM NOXIOUS WEED SEEDS AND RECLEANED GRADE A RECENT CROP SEED
• TREATED WITH APPROPRIATE FUNGICIDE
• DELIVERED TO THE SITE IN SEALED CONTAINERS WITH DEALER GUARANTEED ANALYSIS.

Table with 2 columns: NAME OF GRASS, PROPORTION BY WEIGHT. Lists various grass types like Classic Kentucky Bluegrass, Kentucky Bluegrass, Perennial Ryegrass, etc.

Table with 2 columns: NAME OF GRASS, PROPORTION BY WEIGHT. Lists native seed mixture components like Tall Fescue, Creeping Red Fescue, Redtop, etc.

2.3 SOD
A. ALL SOD SHALL BE WELL ESTABLISHED MOWN LAWN GRASS. IT SHALL BE VIGOROUS, WELL ROOTED, HEALTHY TURF FREE FROM DISEASE, INSECT PESTS, WEEDS AND OTHER GRASSES, STONES OR ANY OTHER DESTRUCTIVE MATERIALS.

2.4 SOIL AMENDMENTS
A. FERTILIZER:
1. FERTILIZER TO BE SPREAD ON AREAS TO BE SEEDED SHALL BE COMMERCIAL PREPARED AND SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT:
LAWN SEED AND SOD AREAS:
16% NITROGEN
16% PHOSPHORIC ACID
16% POTASH
5% ZINC

2. SUPERPHOSPHATE:
1. INCORPORATE SUPERPHOSPHATE INTO THE TOPSOIL WITH THE FIRST APPLICATION OF COMMERCIAL FERTILIZER AT THE RATE OF TWENTY POUNDS PER THOUSAND SQUARE FEET OR AT THE RATE DETERMINED FROM THE TEST RESULTS.

PART 3: EXECUTION

3.1 SURFACE CONDITIONS
A. INSPECTION:
1. PRIOR TO ALL WORK OF THIS SECTION, CAREFULLY INSPECT THE INSTALLED WORK OF ALL OTHER TRADES AND VERIFY THAT ALL SUCH WORK IS COMPLETE TO THE POINT WHERE THIS INSTALLATION MAY PROPERLY COMMENCE. VERIFY THAT SEEDING MAY BE COMPLETED IN ACCORDANCE WITH THE ORIGINAL DESIGN AND THE REFERENCED STANDARDS.

3.2 SEED BED PREPARATION
A. SUBGRADE PREPARATION:
1. SEED BED PREPARATION SHALL PERTAIN TO THE PREPARATION OF THE SURFACE OF THE GROUND TO RECEIVE THE SEED. THE GROUND SHALL BE HAND OR MACHINE RAKED SO AS TO REMOVE ALL DEBRIS, CLODS, STONES, OR OTHER FOREIGN MATTER LARGER THAN 1 INCH, TO A DEPTH OF 4 INCHES. PRIOR TO DUMPING AND SPREADING OF TOPSOIL, THE SURFACE SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 2 INCHES TO FACILITATE BONDING OF TOPSOIL TO SUBGRADE SOIL. WHERE SUBGRADES HAVE BEEN COMPACTED ARTIFICIALLY SCARIFY TO A DEPTH OF 6 INCHES. PRIOR TO SPREADING TOPSOIL, ALL SUBGRADES SHALL BE GRADED EVENLY ACCORDING TO THE CONTRACT DOCUMENTS.

3.3 TOPSOIL PLACEMENT

A. SPREADING:
1. TOPSOIL SHALL BE SPREAD EVENLY ON THE PREPARED AREAS TO A MINIMUM DEPTH OF 6 INCHES AFTER MACHINE COMPACTION. SPREADING SHALL NOT BE DONE WHEN THE GROUND OR TOPSOIL IS FROZEN OR EXCESSIVELY WET. AFTER SPREADING, ANY LARGE, STIFF CLODS OR HARD LUMPS SHALL BE BROKEN UP AND THE GROUND SHALL BE HAND OR MACHINE RAKED TO REMOVE ALL DEBRIS, STONES, AND FOREIGN MATTER LARGER THAN 1 INCH TO A DEPTH OF 4 INCHES.

D. FERTILIZER/SOIL AMENDMENTS:
1. APPLICATION OF FERTILIZER WILL BE IN 2 STAGES. TWO WEEKS PRIOR TO APPLICATION OF SEED, FERTILIZER SHALL BE APPLIED AT THE RATE OF 3 LBS/1000 S.F. FOR TURF AREAS. FERTILIZER SHALL BE APPLIED BY BROADCASTING OR DRILL METHODS. IT SHALL BE APPLIED SEPARATELY FROM THE SEED AND MIXED INTO THE SOIL TO A MINIMUM DEPTH OF 2 INCHES AND MAY BE INCORPORATED AS PART OF THE TOPSOIL PLACEMENT AND SEED BED PREPARATION OPERATIONS.

E. SEEDING:
1. IMMEDIATELY PRIOR TO THE APPLICATION OF THE SEED, THE SOIL SHALL BE LOOSE TO A DEPTH OF AT LEAST 1 INCH AND FREE FROM ALL MATERIAL AS SPECIFIED. IF SOIL IS TOO LOOSE OR DRY FOR GOOD HANDLING, IT SHOULD BE MOISTENED AND ROLLED LIGHTLY.

F. METHODS:
1. SEEDING BY DRILL IS PREFERABLE, HOWEVER, HYDRAULIC SEEDING OR BROADCASTING WILL BE PERMITTED. BROADCAST SEEDING AND HYDRAULIC SEEDING SHALL NOT BE USED DURING ADVERSE WEATHER.

H. PROTECTION:
1. PROTECT ALL SEEDED AREAS BY ERECTING TEMPORARY FENCES, BARRIERS, SIGNS, ETC. AS NECESSARY TO PREVENT TRAMPLING. THEY SHALL REMAIN IN PLACE FOR AT LEAST SIX WEEKS UNLESS OTHER ARRANGEMENTS ARE MADE WITH THE LANDSCAPE ARCHITECT.

I. MULCHING:
A. GENERAL:
1. MULCH ALL HYDROSEEDED AREAS, DRAINAGE SWALES, SLOPES 4:1 OR STEEPER, AND ANY AREAS WHERE LIKELY HAZARD OF EROSION EXISTS. TOPSOIL OR SEED WHICH WASHES OUT FOR REASONS ATTRIBUTABLE TO THE CONTRACTOR'S ACTIVITIES OR FAILURE TO TAKE PROPER PRECAUTIONS, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

3.4 EROSION CONTROL:
1. EROSION CONTROL FABRIC MAY BE REQUIRED AS AN ADDITIONAL MEASURE TO PREVENT EROSION ON SLOPES GREATER THAN 2:1 AND IN DRAINAGE SWALES. IF THIS MATERIAL IS NECESSARY AND AUTHORIZED WHILE WORK IS IN PROGRESS, THEN THE MATERIAL SHALL BE CURLEX EROSION CONTROL BLANKET CONSISTING OF A DENSE MAT OF CURLED AND SEASONED ASPEN WOOD EXCELSIOR BOUND WITH A TOUGH, PHOTO-DEGRADABLE, EXTRUDED PLASTIC MESH AS MANUFACTURED BY AMERICAN EXCELSIOR CO., ARLINGTON, TEXAS OR APPROVED EQUAL.

NH INVASIVE SPECIES WATCH LIST

NEW HAMPSHIRE INVASIVE SPECIES COMMITTEE - APPROVED BY THE ISC JANUARY 2023

THE NH INVASIVE PLANT SPECIES WATCH LIST IS A NON-REGULATORY REFERENCE TOOL THAT SERVES TO:
1. IDENTIFY POTENTIALLY INVASIVE NON-NATIVE PLANT SPECIES BASED ON DEGREE OF INVASIVE QUALITIES (E.G., AGGRESSIVE GROWTH, RAPID REPRODUCTION, AND/OR LACK OF NATURAL HERBIVORES) AND PRESENCE (BUT NOT NECESSARILY ABUNDANCE) IN NH AND/OR NEARBY ELSEWHERE IN NEW ENGLAND
2. INFORM PREVENTION (E.G., EARLY DETECTION/RAPID RESPONSE), MONITORING, AND MANAGEMENT DECISION-MAKING FOR SPECIES THAT MAY IMPACT NH'S ECOSYSTEMS OR ECONOMY
3. INCREASE AWARENESS OF INVASIVE PLANT SPECIES.

Table with 3 columns: SCIENTIFIC NAME, SYNONYMS, COMMON NAME. Lists various invasive species like Abutilon theophrasti, Acer ginnala, Achyranthus japonica, etc.

OWNER

JASON DONOVAN
PO BOX 957
BANGOR, ME 04402
P. (603) 726-4671

CONSTRUCTION MANAGER

TBD

CONSULTANTS:

CIVIL
NOBIS GROUP
18 CHENELL DRIVE
CONCORD, NH 03301
P. (603) 224-4183

LANDSCAPE

WARRENSTREET ARCHITECTS
4 CRESCENT STREET, UNIT 2
CONCORD, NH 03301
P. (603) 225-0640

STRUCTURAL

TF MORAN, INC.
48 CONSTITUTION DRIVE
BEDFORD, NH 03110
P. (603) 472-4488

MECHANICAL/PLUMBING

WV ENGINEERING ASSOCIATES
11 KING COURT
KEENE, NH 03431
P. (603) 352-7005

ELECTRICAL

WV ENGINEERING ASSOCIATES
11 KING COURT
KEENE, NH 03431
P. (603) 352-7005

OTHER

N/A



WARRENSTREET ARCHITECTS, INC.
4 CRESCENT STREET, UNIT 2
CONCORD, NEW HAMPSHIRE 03303
40 STARK STREET
MANCHESTER, NEW HAMPSHIRE 03103
P. (603) 225-0640
WWW.WARRENSTREET.COOP



PROJECT TITLE / ADDRESS:

BANGOR SAVINGS BANK - LOUDON

111 LOUDON RD
CONCORD, NH 03301

PLAN KEY:

Table with 2 columns: REV, DATE, COMMENTS. Shows revision history.

SCALE: AS NOTED DWN BY: EH
PROJECT #: 3728 CHK BY: JH
PRINT DATE: 12/17/2024 3:10:17 PM

ISSUE DATE: 12/17/2024
PERMIT SET

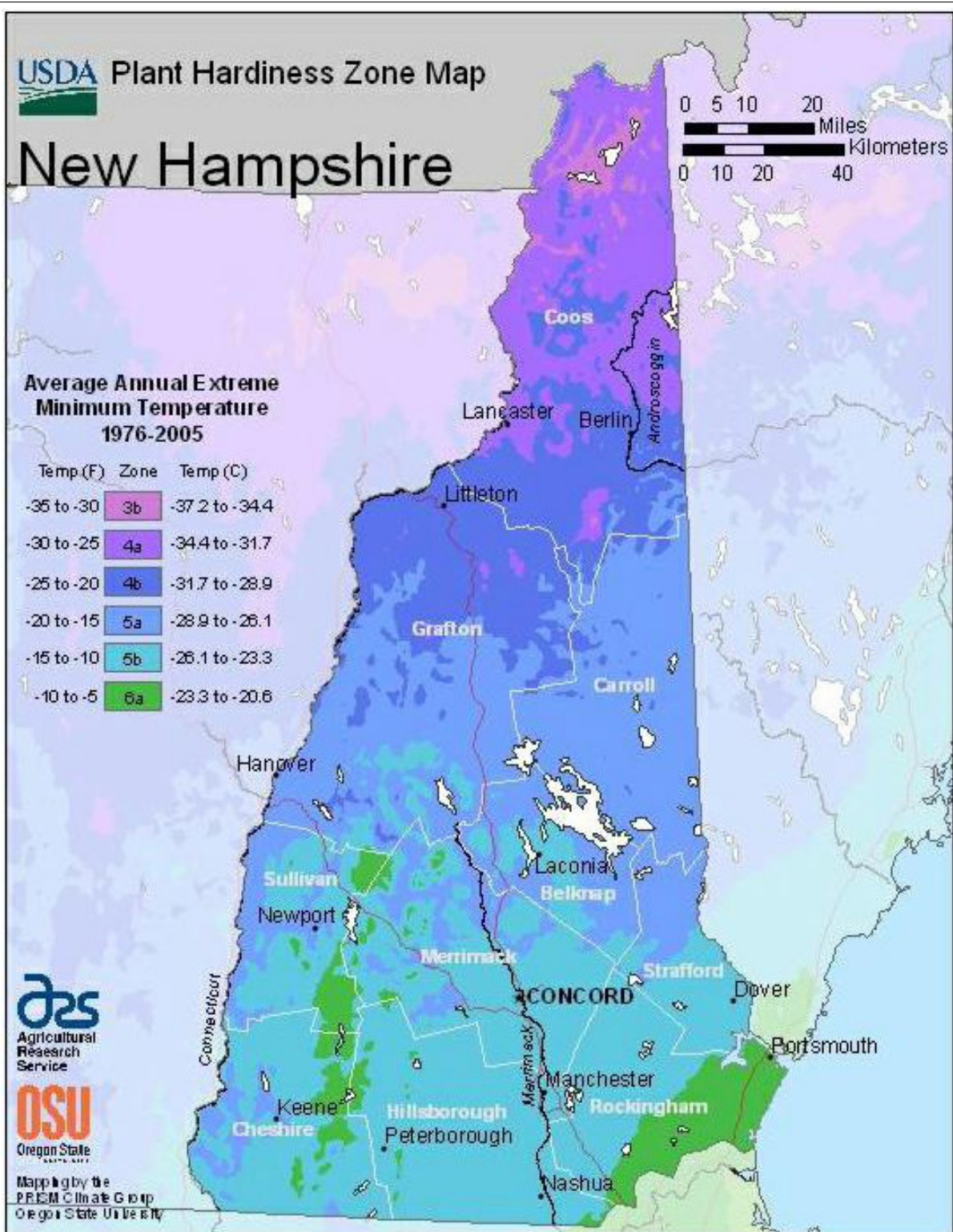
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LANDSCAPE SPECIFICATIONS, CONT. & INVASIVE SPECIES LIST

LA106

SHEET NUMBER: 7 OF 8 LANDSCAPE
THE DRAWING AND ITS CONTENT IS THE INTELLECTUAL PROPERTY OF WARRENSTREET ARCHITECTS INC. WITH THE SOLE INTENT TO BUILD THE PROJECT TITLED ABOVE AT ONE LOCATION NOTED HEREIN. THE USE OF THE CONTENT FOR ANY OTHER PURPOSE IS PROHIBITED AND PROTECTED UNDER COPYRIGHT LAW.
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USDA PLANT HARDINESS ZONE MAP



Vertical text on the left margin: three inches = one foot, one and one half inches = one foot, three quarters inch = one foot, one eighth inch = one foot.

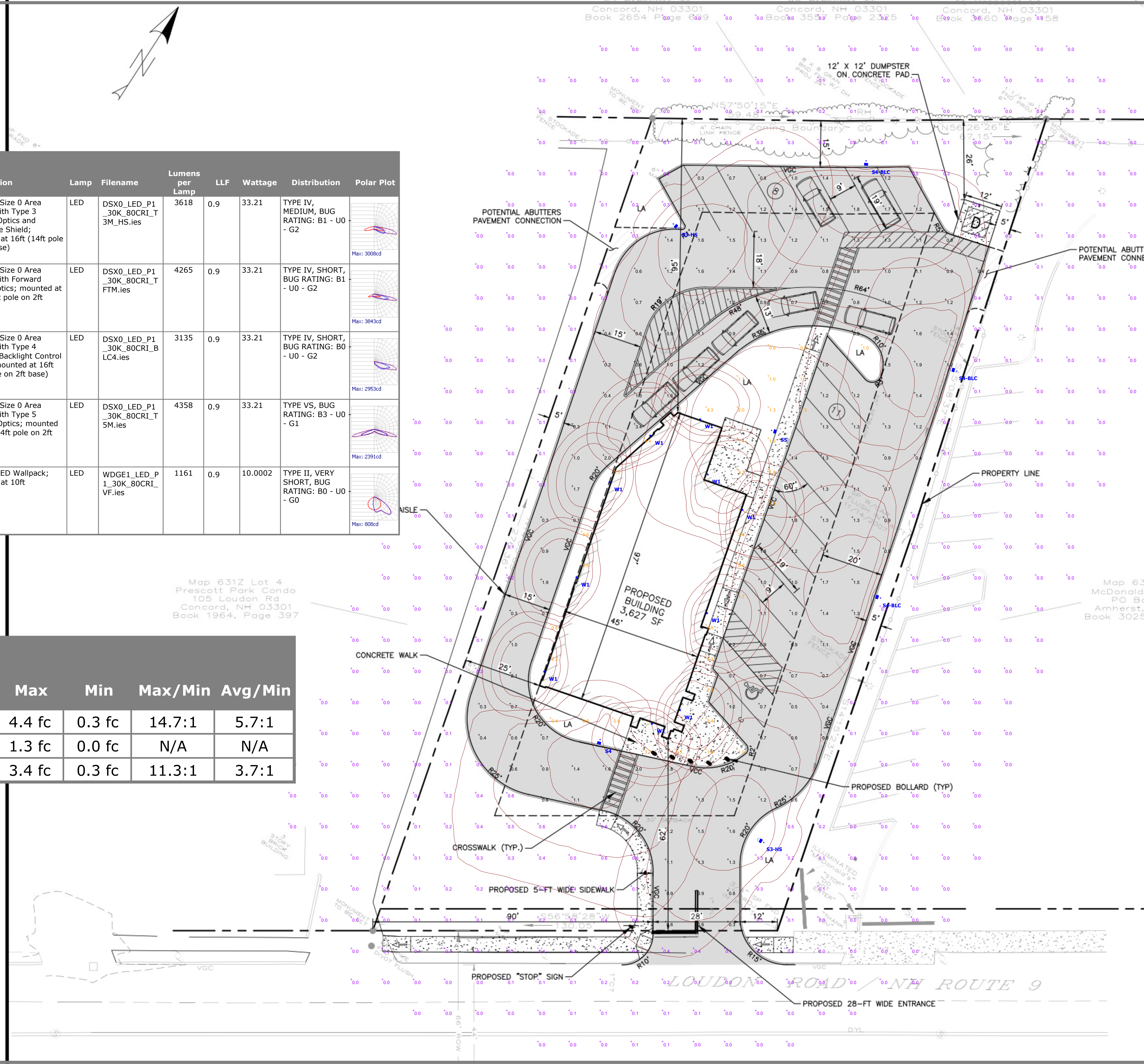
Vertical text on the left margin: AutoSave: Docx:0728 Bangor Savings - Loudon 0728 2024-12-12 BANGOR SAVINGS - LOUDON LANDSCAPE PERMIT SET DATE: 11/29/2019






Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Filename	Lumens per Lamp	LLF	Wattage	Distribution	Polar Plot
	S3-HS		2	Lithonia Lighting	DSX0 LED P1 30K 80CRI T3M HS MVOLT SPA DDBXD with SSS 14 4C DM19AS DDBXD	D-Series Size 0 Area Fixture with Type 3 Medium Optics and Houseside Shield; mounted at 16ft (14ft pole on 2ft base)	LED	DSX0_LED_P1_30K_80CRI_T3M_HS.ies	3618	0.9	33.21	TYPE IV, MEDIUM, BUG RATING: B1 - U0 - G2	
	S4		1	Lithonia Lighting	DSX0 LED P1 30K 80CRI TFTM MVOLT SPA DDBXD with SSS 14 4C DM19AS DDBXD	D-Series Size 0 Area Fixture with Forward Throw Optics; mounted at 16ft (14ft pole on 2ft base)	LED	DSX0_LED_P1_30K_80CRI_TFTM.ies	4265	0.9	33.21	TYPE IV, SHORT, BUG RATING: B1 - U0 - G2	
	S4-BLC		3	Lithonia Lighting	DSX0 LED P1 30K 80CRI BLC4 MVOLT SPA DDBXD with SSS 14 4C DM19AS DDBXD	D-Series Size 0 Area Fixture with Type 4 Extreme Backlight Control Optics; mounted at 16ft (14ft pole on 2ft base)	LED	DSX0_LED_P1_30K_80CRI_BLC4.ies	3135	0.9	33.21	TYPE IV, SHORT, BUG RATING: B0 - U0 - G2	
	S5		1	Lithonia Lighting	DSX0 LED P1 30K 80CRI T5M MVOLT SPA DDBXD with SSS 14 4C DM19AS DDBXD	D-Series Size 0 Area Fixture with Type 5 Medium Optics; mounted at 16ft (14ft pole on 2ft base)	LED	DSX0_LED_P1_30K_80CRI_T5M.ies	4358	0.9	33.21	TYPE VS, BUG RATING: B3 - U0 - G1	
	W1		10	Lithonia Lighting	WDGE1 LED P1 30K 80CRI VF MVOLT SRM DDBXD	WDGE1 LED Wallpack; mounted at 10ft	LED	WDGE1_LED_P1_30K_80CRI_VF.ies	1161	0.9	10.0002	TYPE II, VERY SHORT, BUG RATING: B0 - U0 - G0	

Statistics		Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
		Landscape Area Around Building	+	1.7 fc	4.4 fc	0.3 fc	14.7:1	5.7:1
		Outside of Parking Lot	+	0.1 fc	1.3 fc	0.0 fc	N/A	N/A
		Parking Lot	+	1.1 fc	3.4 fc	0.3 fc	11.3:1	3.7:1





# BANGOR SAYINGS BANK

## Concord, NH

### Site Lighting Layout

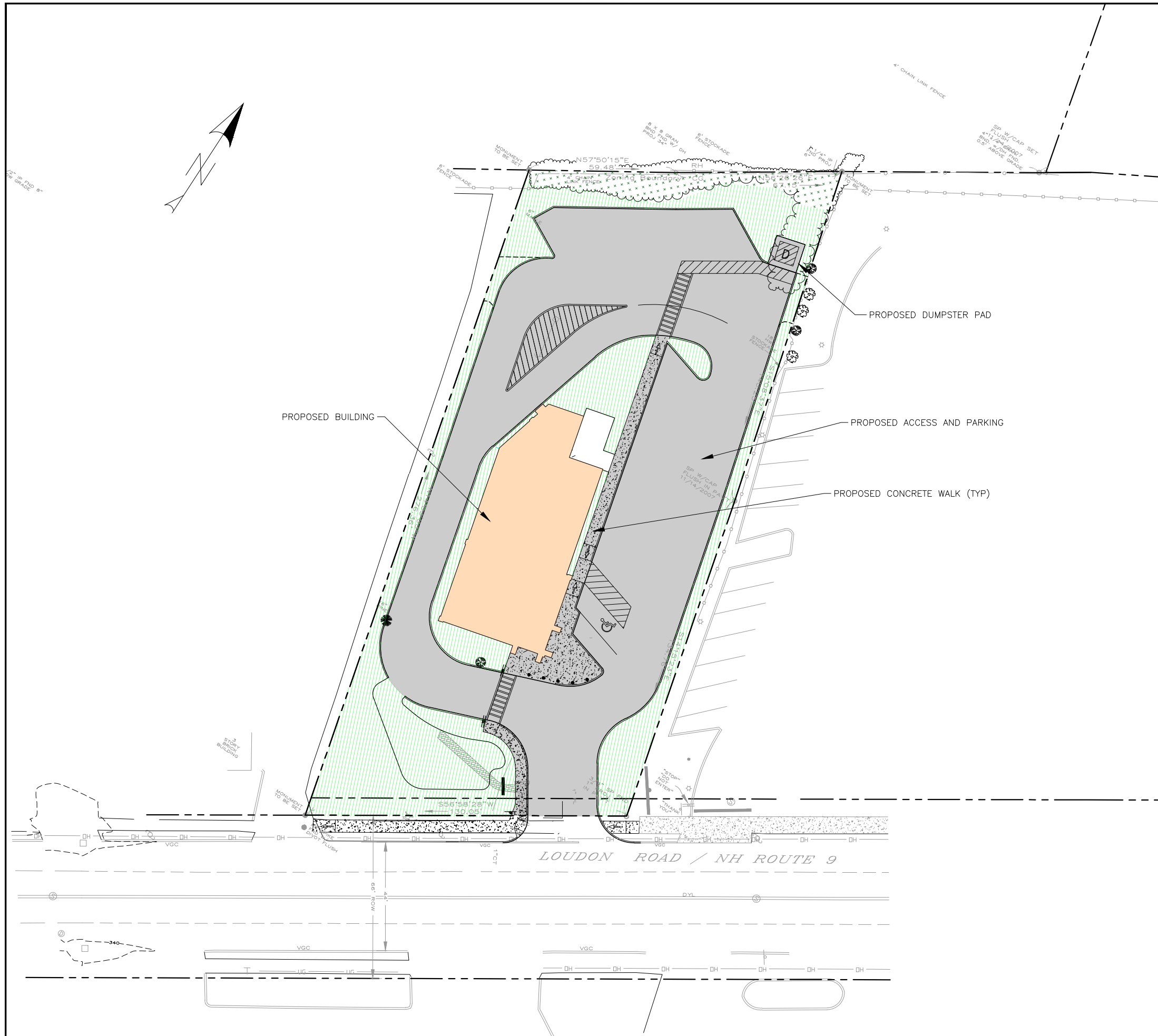
Designer  
Heidi G. Connors  
Visible Light, Inc.  
24 Stickney Terrace  
Suite 6  
Hampton, NH 03842

Date  
12/11/2024

Scale  
1"=16'

Drawing No.  
Summary

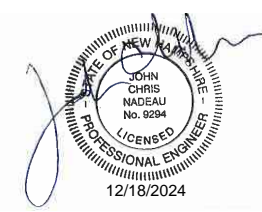
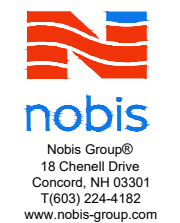
1 of 1



**LEGEND**

	WATERSHED BOUNDARY		BUILDING
	OPEN SPACE		PAVEMENT/IMPERVIOUS
	WOOD/GRASS COMBINATION		

- NOTES:**
- SOIL ON-SITE CONSIST OF WINDSOR-URBAN LAND, 0 TO 8 PERCENT SLOPES (HSG A) BASED ON USDA NRCS WEB SOIL SURVEY.
  - IN AREAS WHERE T<sub>c</sub> WAS CALCULATED AS LESS THAN 5 MINUTES, "DIRECT ENTRY" METHOD WAS USED IN THE HYDROCAD MODEL. THESE T<sub>c</sub> LINES ARE NOT SHOWN



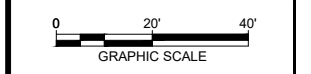
NOT ISSUED FOR CONSTRUCTION

**BANGOR SAVINGS BANK**  
 111 LOUDON ROAD  
 CONCORD, NEW HAMPSHIRE

APPLICANT:  
 BANGOR SAVINGS BANK  
 P.O BOX 930  
 BANGOR, ME 04402

NO.	DATE	DESCRIPTION

REVISIONS



DATE:	DEC 2024
NOBIS PROJECT NO.	100165.00
DRAWN BY:	KLR
CHECKED BY:	JIR
CAD DRAWING FILE:	100165.000-PROPOSED WATERSHED PL

COLORED OVERVIEW MAP

SHEET EXHIBIT 1