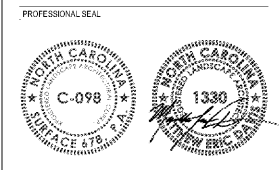


DR. WESLEY GRANT SR. CENTER EXPANSION

285 LIVINGSTON STREET
ASHEVILLE, NC 28801

DESIGNER
CLARK NEXSEN
301 COLLEGE STREET, SUITE 300
ASHEVILLE, NORTH CAROLINA 28801
828-232-0608
CLARK NEXSEN LICENSE NUMBER: C-1028

CONSULTANT
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215 North Street, Suite 150
Durham, NC 27701
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SUBMITTAL
03/12/2021
CONSTRUCTION DOCUMENTS

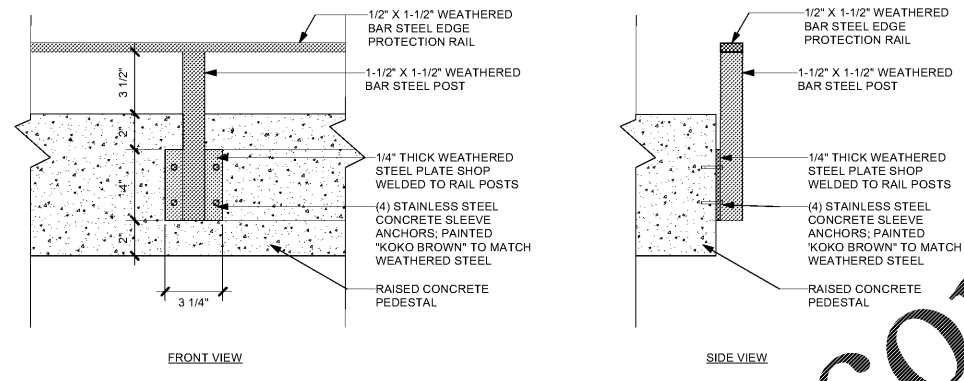
REVISIONS

NO.	DESCRIPTION

KEY
PLAN

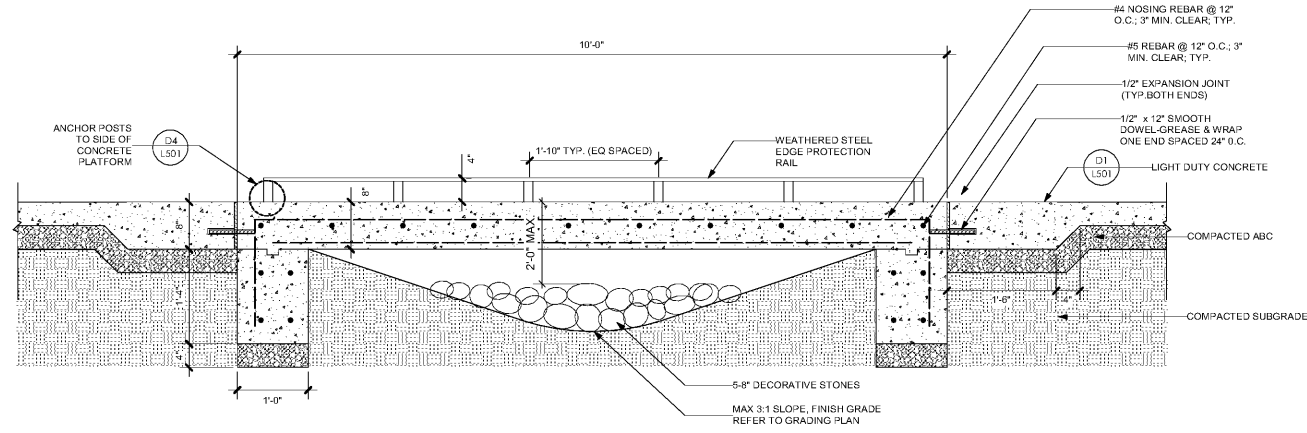
SHEET
DETAILS
L502

DESIGN: MED
DRAWN: JJC
REVIEW: MED
CN 7904-A



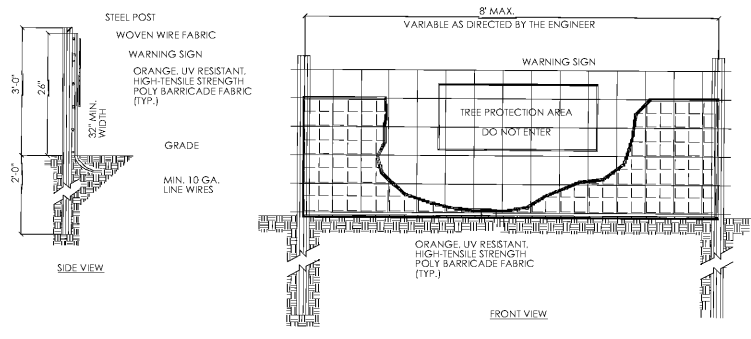
METAL TOE KICK RAIL SPECIFICATIONS

- PART 1 - GENERAL**
- 1.1 SUBMITTALS
- A. Product Data: For the following:
 - 1. Manufacturer's product lines of railings assembled from standard components.
 - B. Shop Drawings: Include plans, elevations, sections, and attachment details.
 - C. Samples for Initial Selection: For products involving selection of color, texture, or design.
 - D. Samples for Verification: For each type of exposed finish material.
- 1.2 QUALITY ASSURANCE
- A. Welding Qualifications: Quality procedures and personnel according to the following:
 - 1. AWS D1.1/D1.1M, "Structural Welding Code - Steel"
 - B. Build mockups for each form and finish of railing consisting of one post, top rail, welds, anchorage system and high performance coating components that are full height and are not less than 24" in length.
- PART 2 - PRODUCTS**
- 2.1 PERFORMANCE REQUIREMENTS
- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design railings, including attachment to building construction.
 - B. General: In engineering drawings to withstand structural loads indicated, determine allowable design working stresses of railing materials based on the following:
 - 1. Steel: 72 percent minimum yield strength.
 - C. Structural Performance: Railings, including attachment to concrete, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:
 - 1. Handrails and Top Railings:
 - a. Uniform load of 50 pcf applied in any direction.
 - b. Concentrated load of 200 lbf applied in any direction.
 - c. Uniform concentrated loads need not be assumed to act concurrently.
 - D. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes acting on exterior railings by preventing buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
 - 1. Temperature Change: 120 degF, ambient; 180 degF, material surfaces.
- 2.2 FINISHS, GENERAL
- A. Metal Surfaces, General: Provide materials with smooth surfaces, without seam marks, roller marks, rolled trade names, stains, discolorations, or blemishes.
- 2.3 STEEL
- A. Structural plates, shapes and bars: ASTM A588 Grade A weathered steel finish
 - B. Plates through 1/2" thickness: ASTM A242 Grade A weathered steel finish
- 2.4 ANCHORS
- A. Post-Installed Anchors: Fastener systems with working capacity greater than or equal to the design load, according to an evaluation report acceptable to authorities having jurisdiction, based on ICC-ESAC193.
 - B. Provide stainless steel anchors and fasteners, painted "Koko Brown" to match weathered steel.
- 2.5 FABRICATION
- A. Assemble railings in the shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for assembly and coordinated installation. Use connections that maintain structural value of joined pieces.
 - B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32". Remove sharp or rough areas on exposed surfaces.
 - C. Form work true to line and level with accurate angles and surfaces.
 - E. Cut, reinforce, drill, and tap as indicated to receive finish hardware, screws, and similar items.
 - F. Welded Connections: Copo components at connections to provide close fit, or use fittings designed for this purpose. Weld all around at connections, including at fittings.
 - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 - 2. Obtain fusion without undercut or overlap.
 - 3. Remove flux immediately.
 - 4. At exposed connections, finish exposed welds to comply with NOMMA's "Voluntary Joint Finish Standards" for Type 1 welds; no evidence of a welded joint.
 - G. Provide inserts and other anchorage devices for connecting railings to concrete or masonry work. Fabricate anchorage devices capable of withstanding loads imposed by railings. Coordinate anchorage devices with supporting structure.
- 2.7 GENERAL FINISH REQUIREMENTS
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- PART 3 - EXECUTION**
- 3.1 INSTALLATION, GENERAL
- A. Fit exposed connections together to form tight, hairline joints.
 - B. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.
 - 1. Do not weld, cut, or abrade surfaces of railing components that have been coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
 - 2. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
 - 3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.
 - C. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.
 - D. Fastening to In-Place Construction: Use anchorage devices and fasteners where necessary for securing railings and for properly transferring loads to in-place construction.



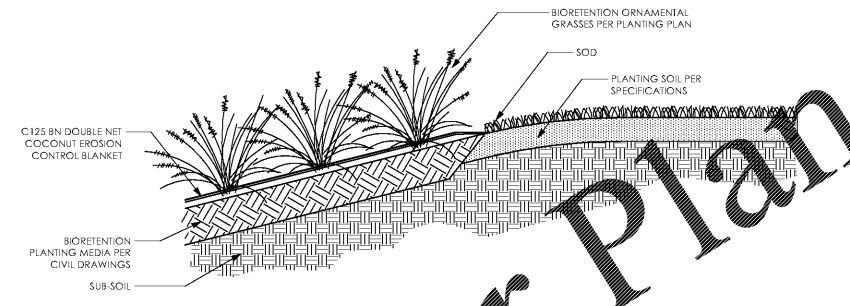
D3 RAISED CONCRETE PLATFORM OVER BIORETENTION

NOTE:
1. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO FABRICATION, CONSTRUCTION AND INSTALLATION.



C3 TREE PROTECTION FENCE

NOTES:
1. REFER TO TEMPORARY TREE AND PLANT PROTECTION SPECIFICATION 015639 FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.



B3 BIORETENTION PLANTING DETAL

SCALE: N15

Order Plans @