

EASTERN CAROLINA STATE VETERANS CEMETERY EXPANSION

SCO# 24-29071-01B

FAI # NC-22-12

164 Longs Plant Farm Rd, Goldsboro, NC 27534

RND
architects

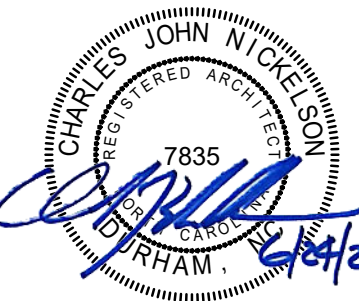
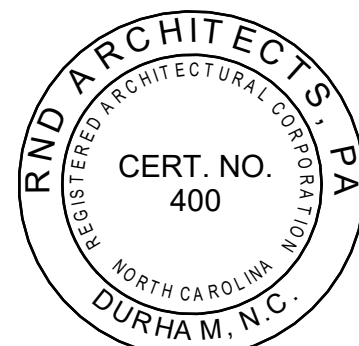
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IN ASSOCIATION WITH:



PROFESSIONAL SEALS:



PROJECT INFORMATION:



North Carolina
DEPARTMENT OF MILITARY
AND VETERANS AFFAIRS

EASTERN CAROLINA SV CEMETERY EXPANSION

SCO# 24-29071-01B FAI# NC-22-12
Goldsboro, NC 27534

KEY PLAN:



Not to Scale

REVISIONS

No.	Date	Description
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Original drawing is 24"x36" - Do not scale contents.

PROJECT#	DRAWN	CHECKED	DATE
2435.01	JSM	CJN	06/24/2025

SHEET NAME:

Landscape Architecture/Civil Engineering:

CLH Design, PA

Cary, North Carolina
Phone: 919.309.6716

Structural Engineering:

Gardner & McDaniel, PA

Durham, North Carolina
Phone: 919.489.0926

Architect:

RND Architects, PA

Durham, North Carolina
Phone: 919.490.1266

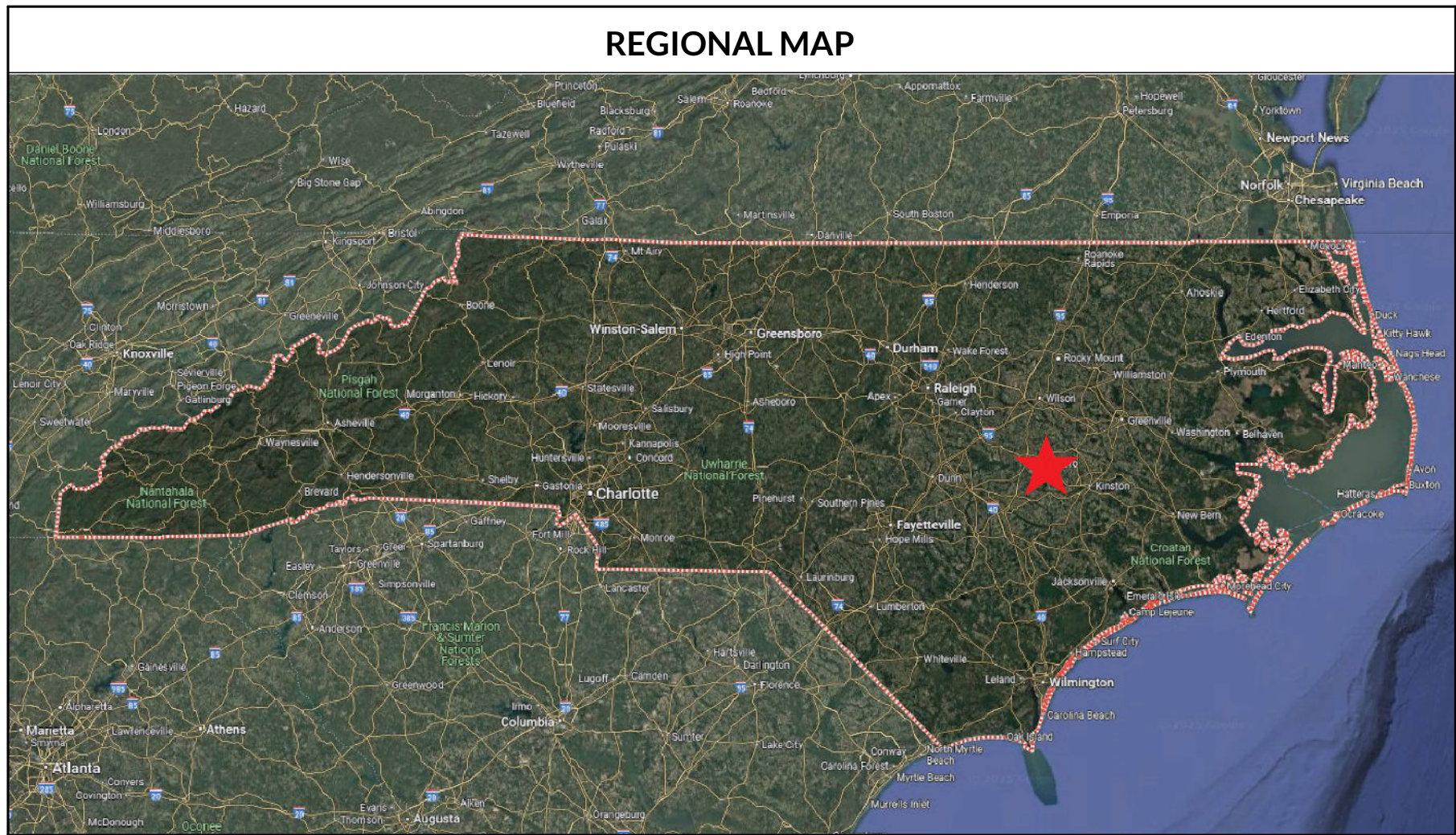
Owner:

**North Carolina Department of
Military and Veterans Affairs**

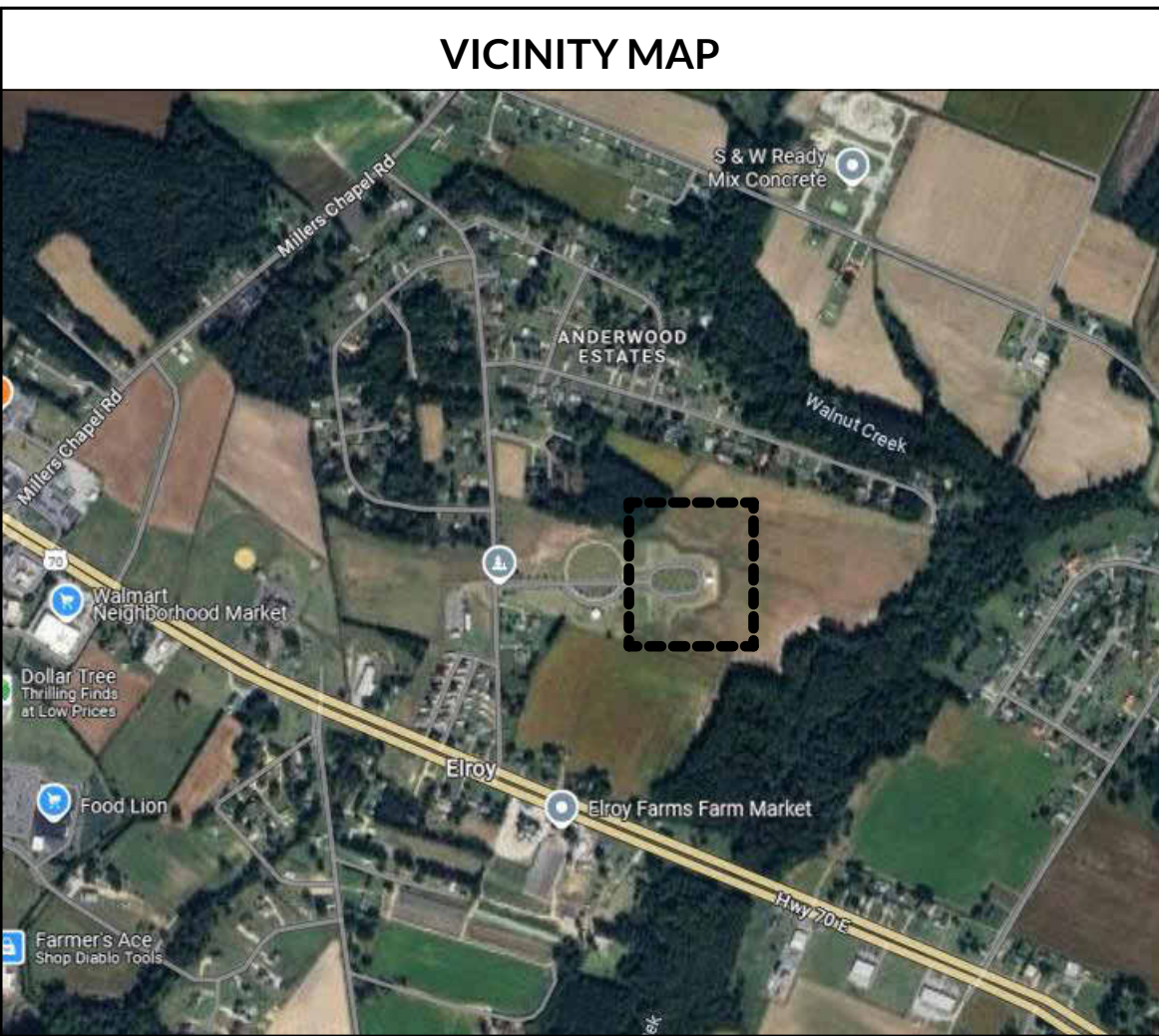
Raleigh, North Carolina
Phone: 984.204.8366

COVER SHEET

A001



REGIONAL MAP



VICINITY MAP

INDEX OF DRAWINGS

ARCHITECTURAL

A001	COVER SHEET
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A201	COLUMBARIA PLAN, ELEVATIONS, & SECTIONS

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CIVIL

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C301	SITE GRADING & EROSION CONTROL PLAN
C401	SITE DETAILS
C402	SITE DETAILS

5

STRUCTURAL

S101	FOUNDATION PLAN, DETAILS, & SECTIONS
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1

Grand total: 9

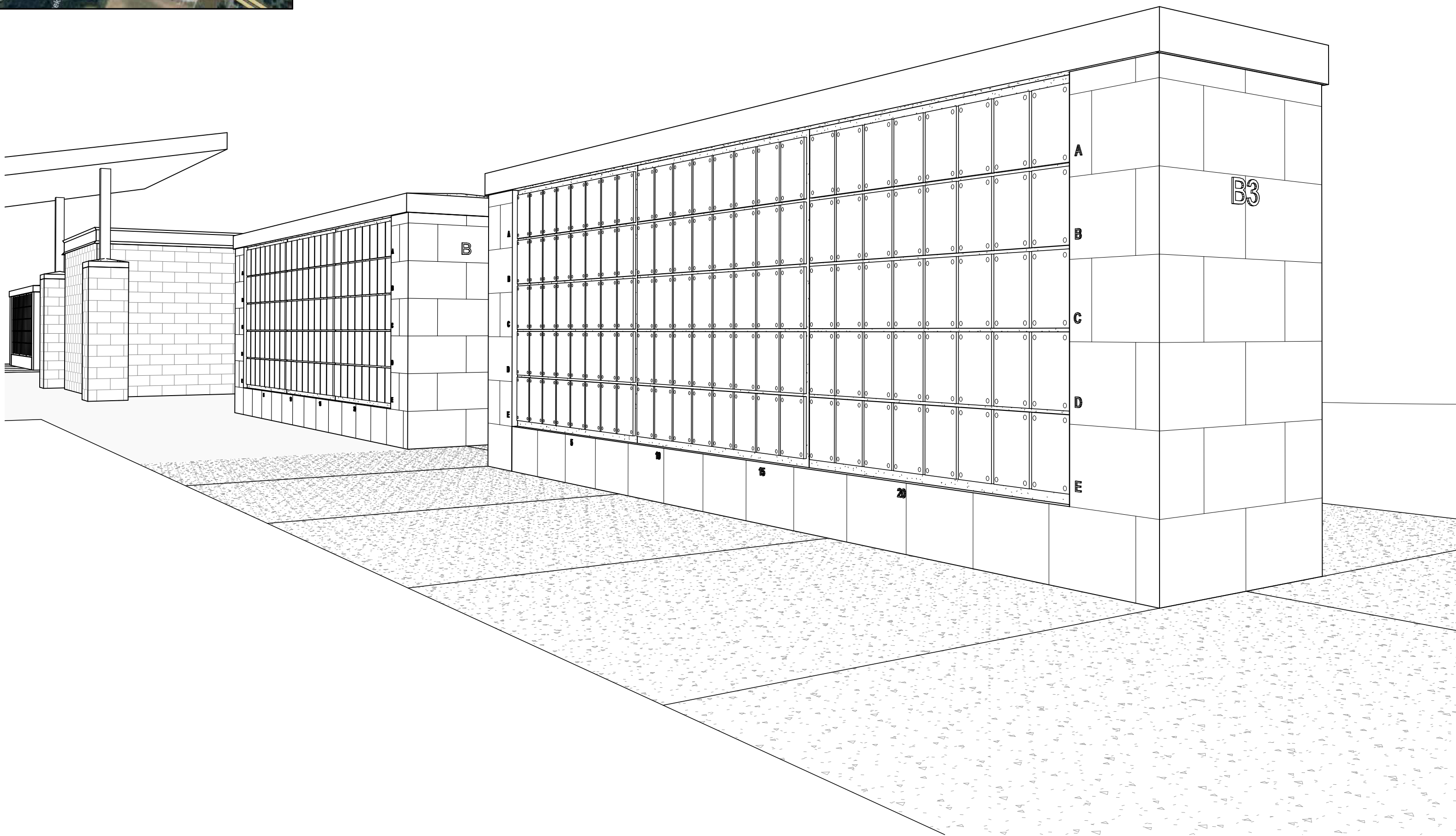
PROJECT DESCRIPTION

North Carolina State Veterans Cemetery expansion to include the installation of 480 new Columbarium Niches at the Eastern Carolina State Veterans Cemetery located in Goldsboro, NC.

Total Acreage of Cemetery: 32.7 acres

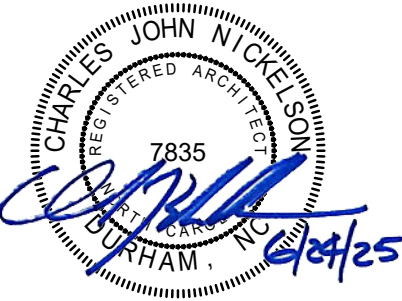
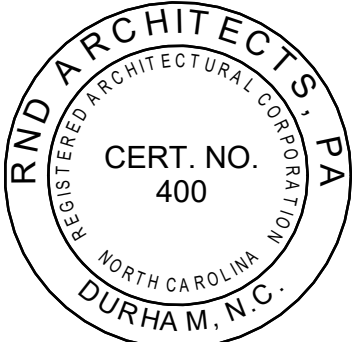
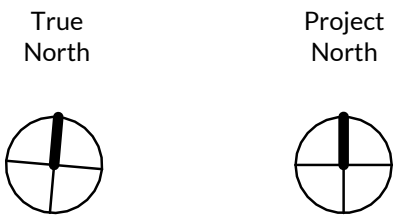
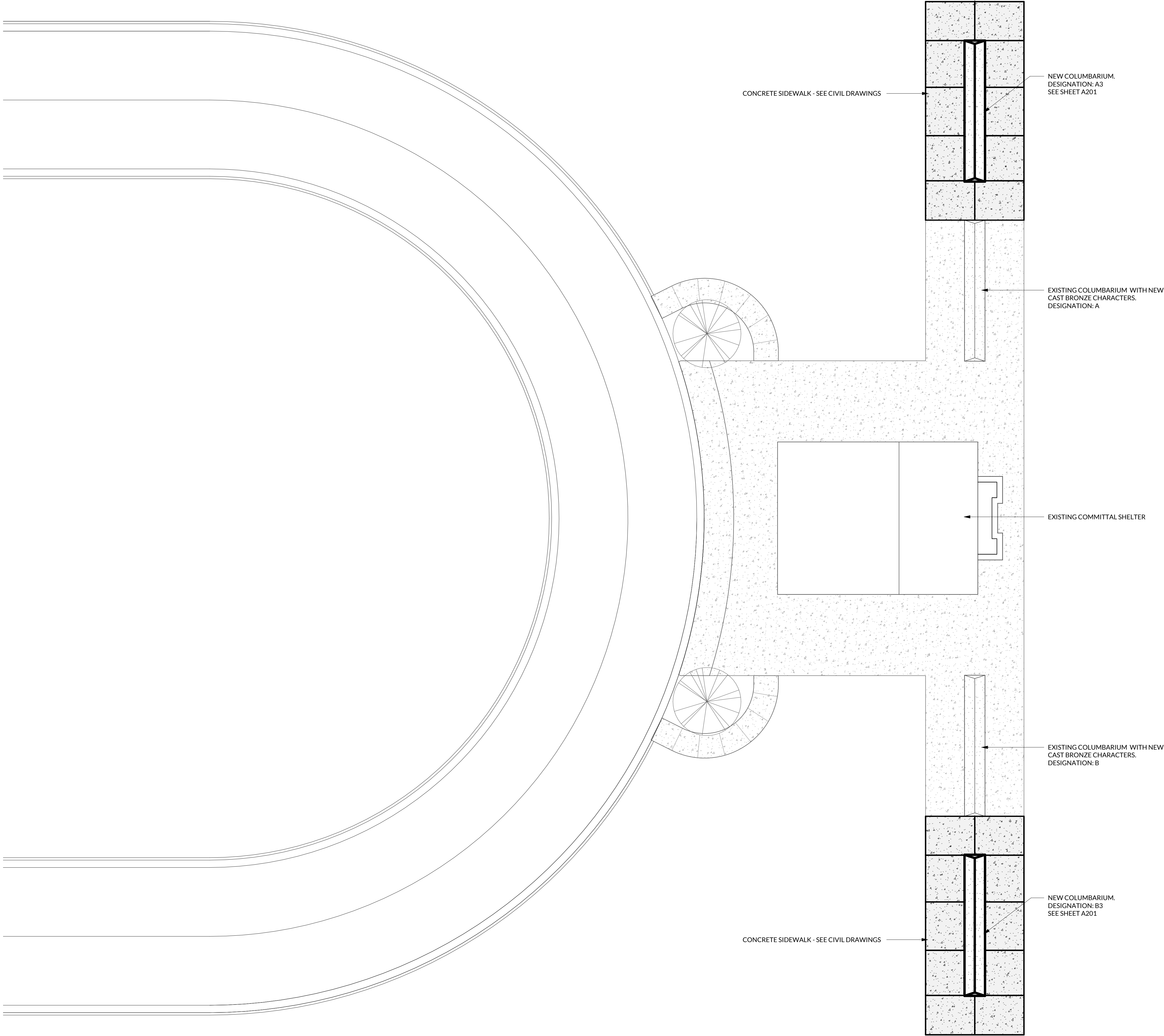
Total Acreage of Developed Areas of Cemetery: 19.75 acres

Disturbed Areas of Project: <0.1 acres (1,830 sf)



June 24, 2025

BID DOCUMENT SET



EASTERN CAROLINA SV
CEMETERY EXPANSION

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REVISIONS

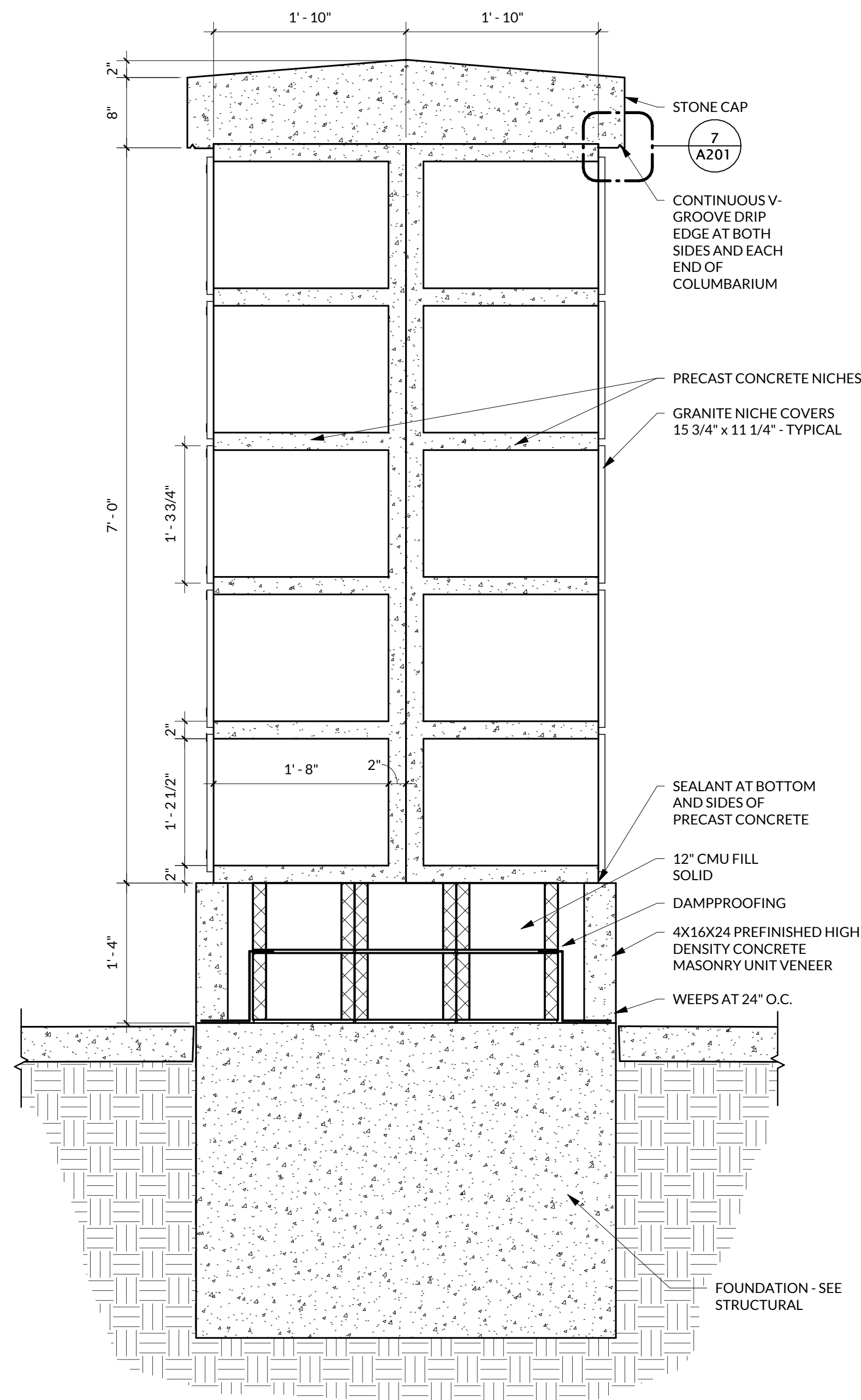
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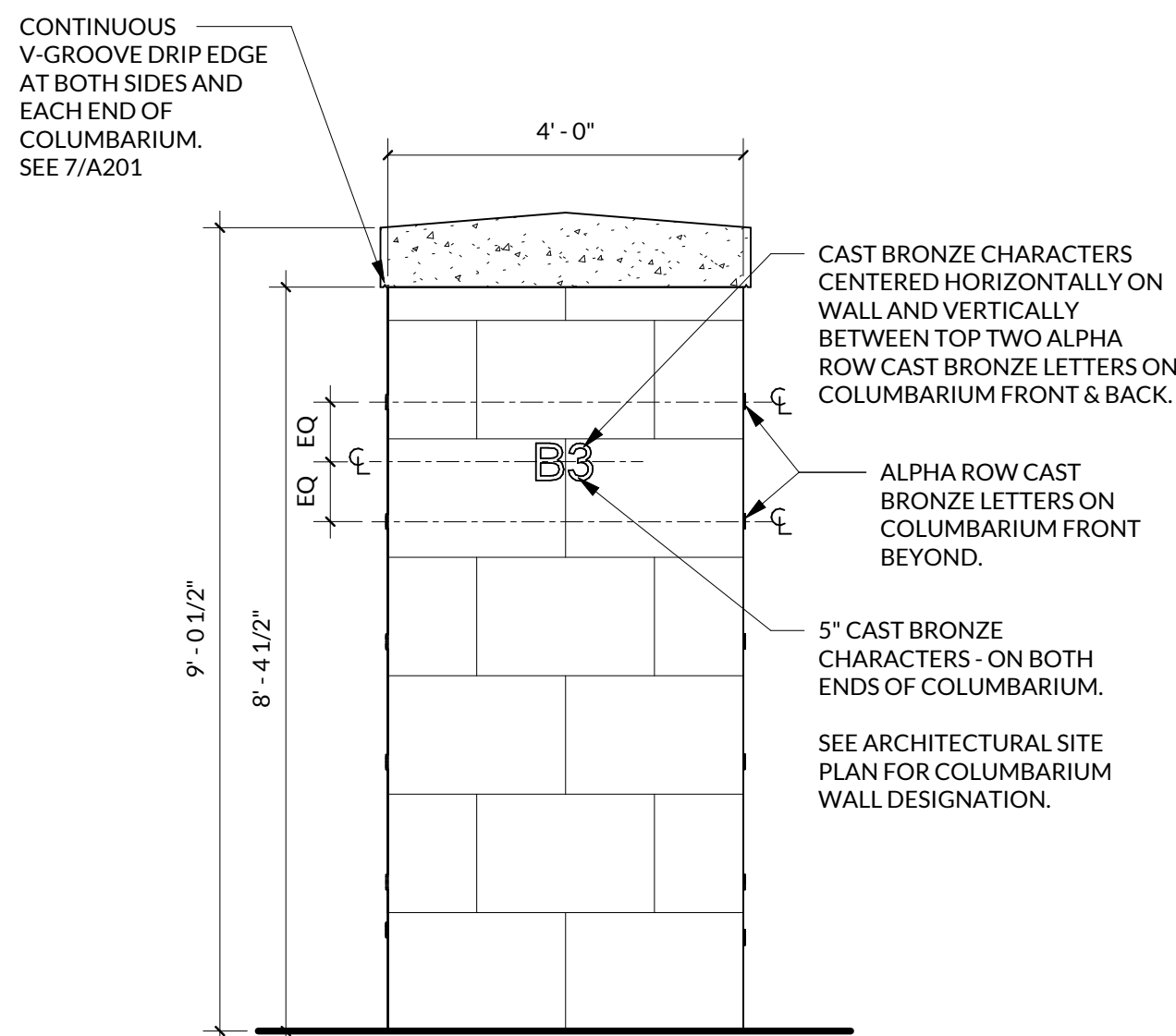
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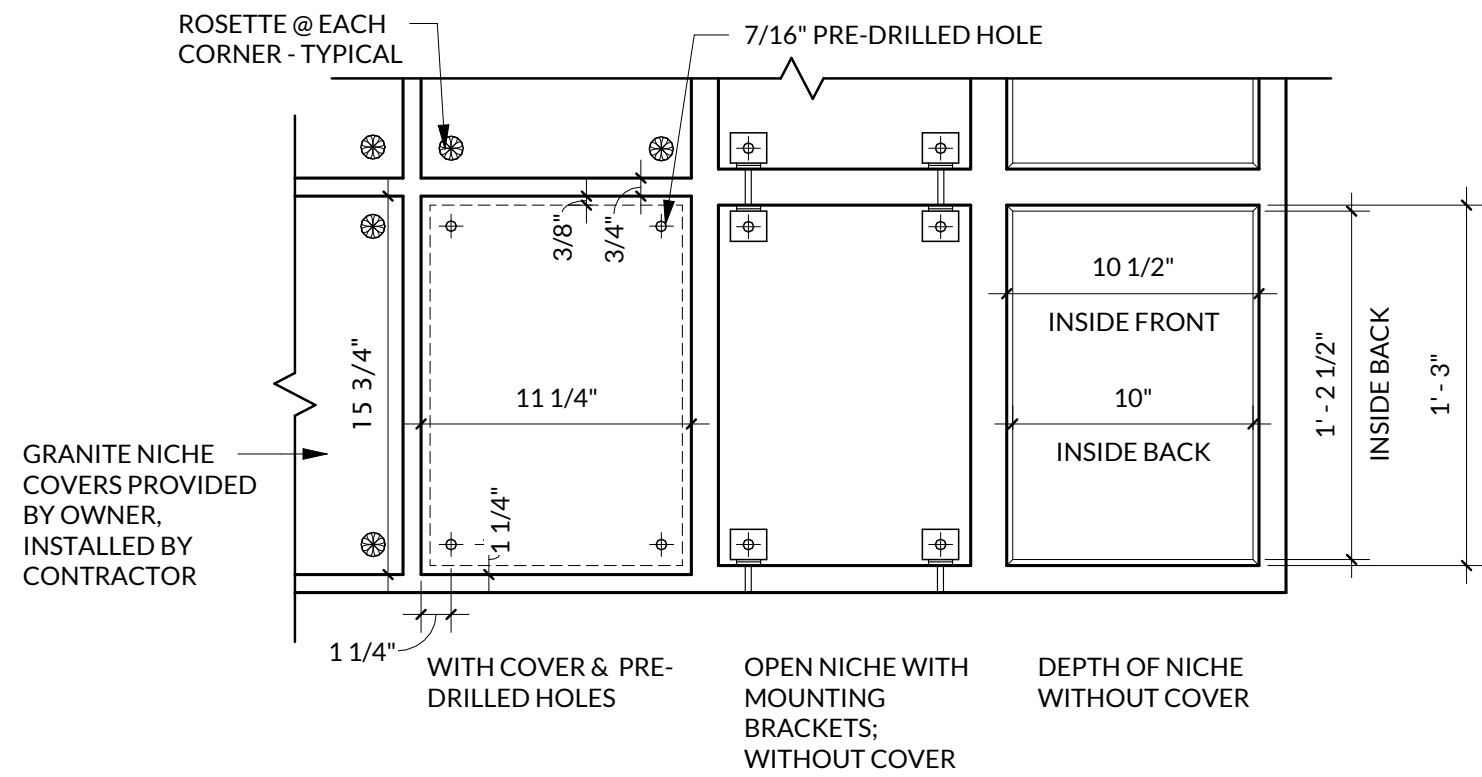
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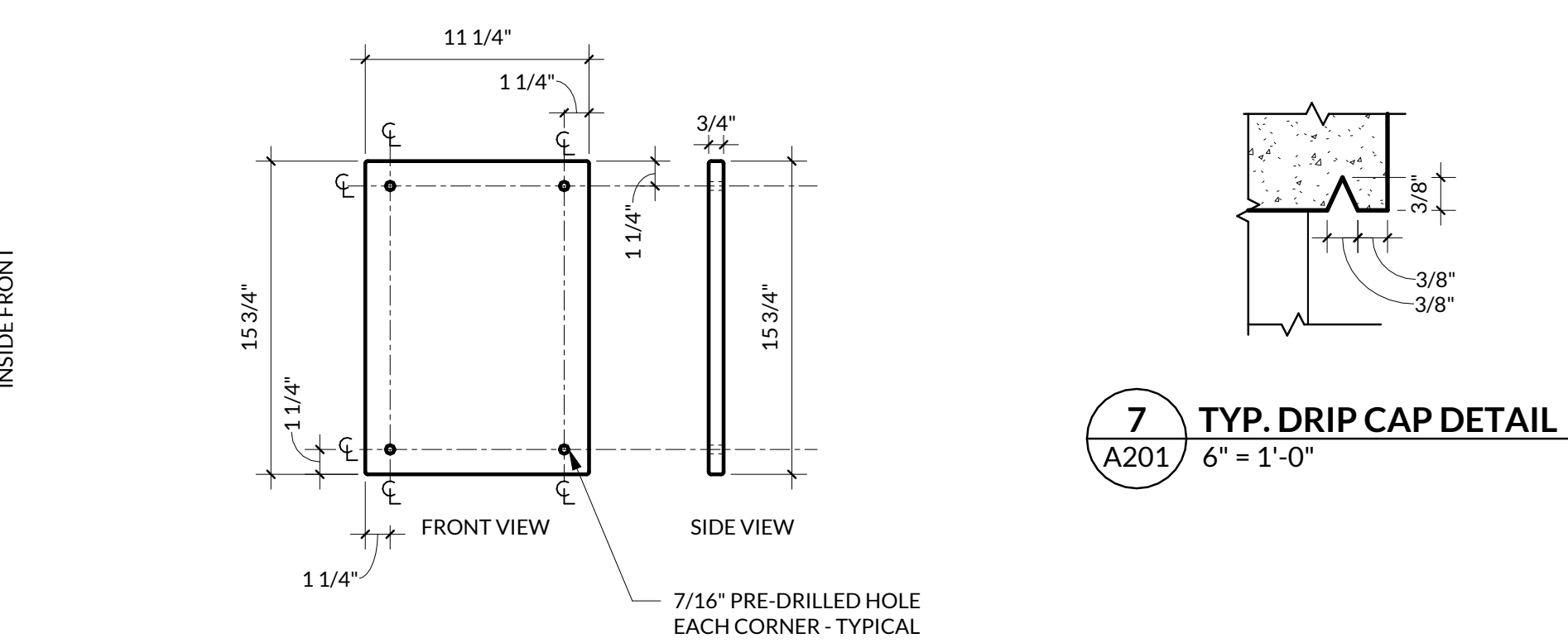
1 SECTION - COLUMBARIUM TYPICAL
A201 1" = 1'-0"



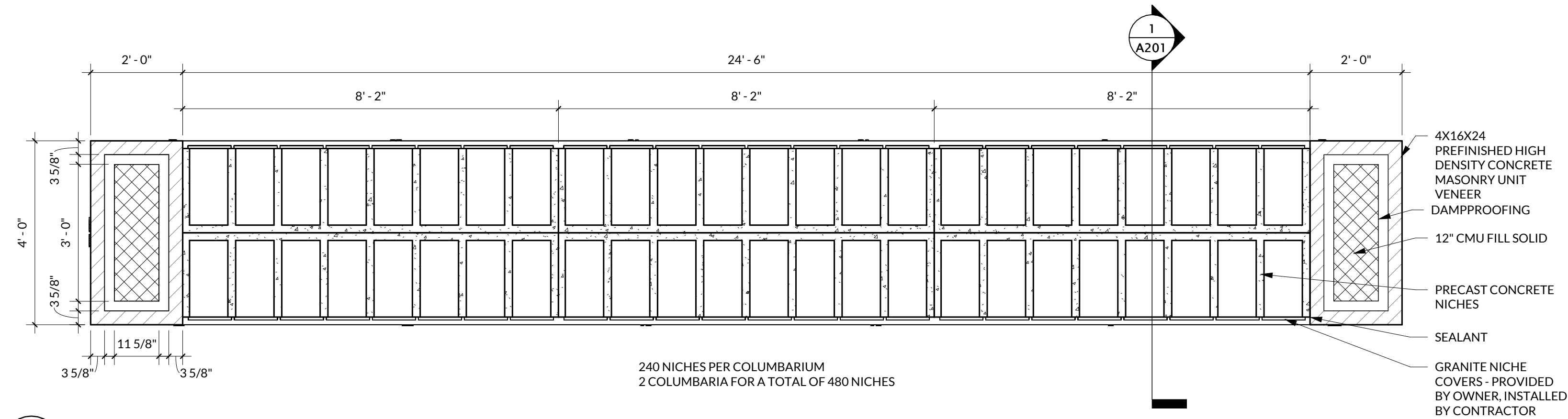
2 ELEVATION - COLUMBARIUM SIDE TYPICAL
A201 1/2" = 1'-0"



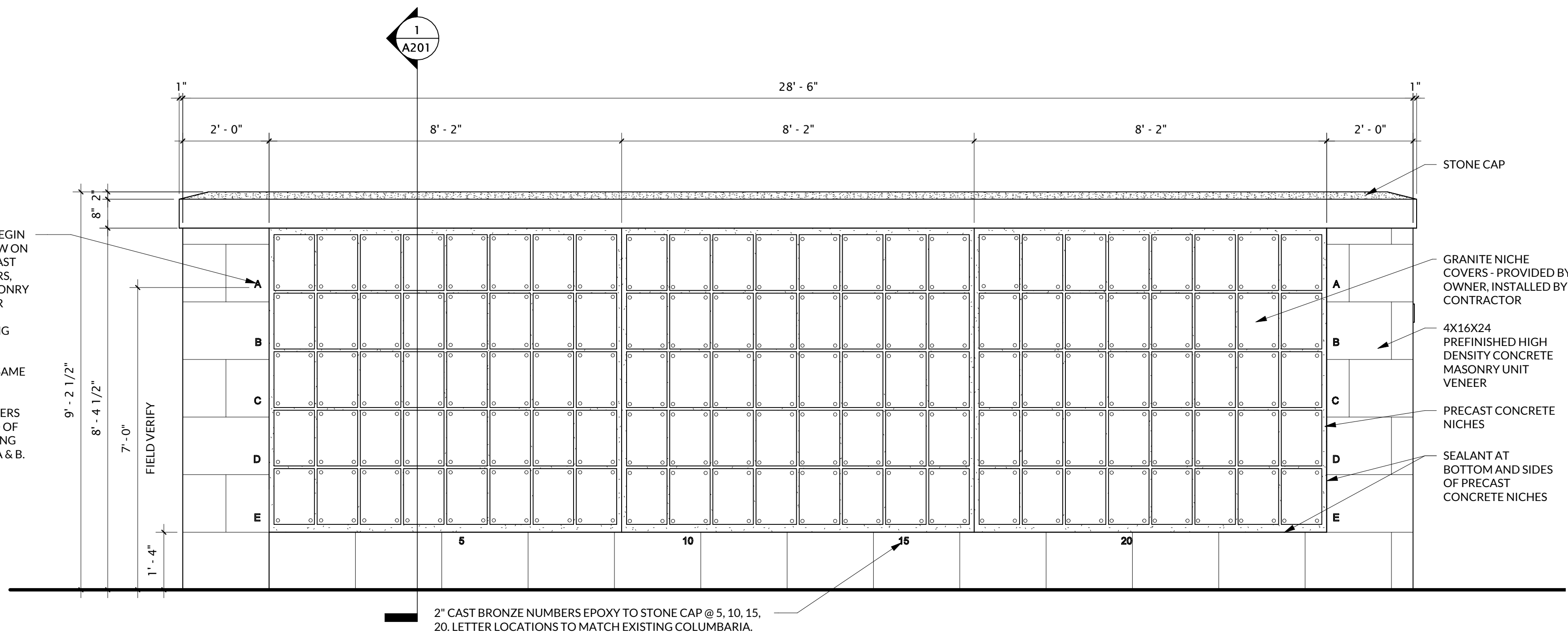
5 DETAIL - NICHES & NICHE COVERS
A201 1 1/2" = 1'-0"



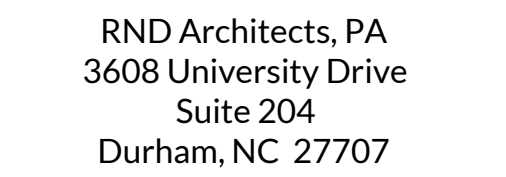
6 TYPICAL NICHE COVER DETAIL - PROVIDED BY OTHERS
A201 1 1/2" = 1'-0"



4 PLAN - COLUMBARIUM TYPICAL
A201 1/2" = 1'-0"



3 ELEVATION - COLUMBARIUM FRONT TYPICAL
A201 1/2" = 1'-0"



IN ASSOCIATION WITH:



PROFESSIONAL SEALS:



OBJECT INFORMATION:



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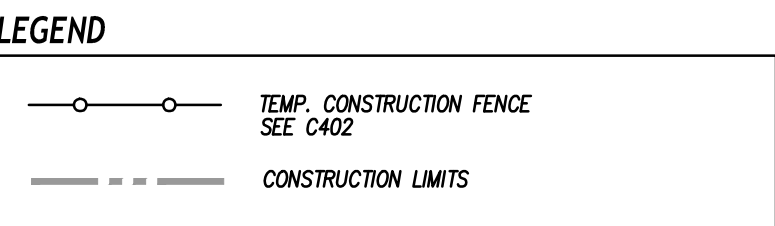
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OBJECT#:	DRAWN:	CHECKED:	DATE:
2435.01	SM	SM	06/24/202

NET NAME:

EXISTING CONDITIONS & SITE DEMOLITION PLAN

C101



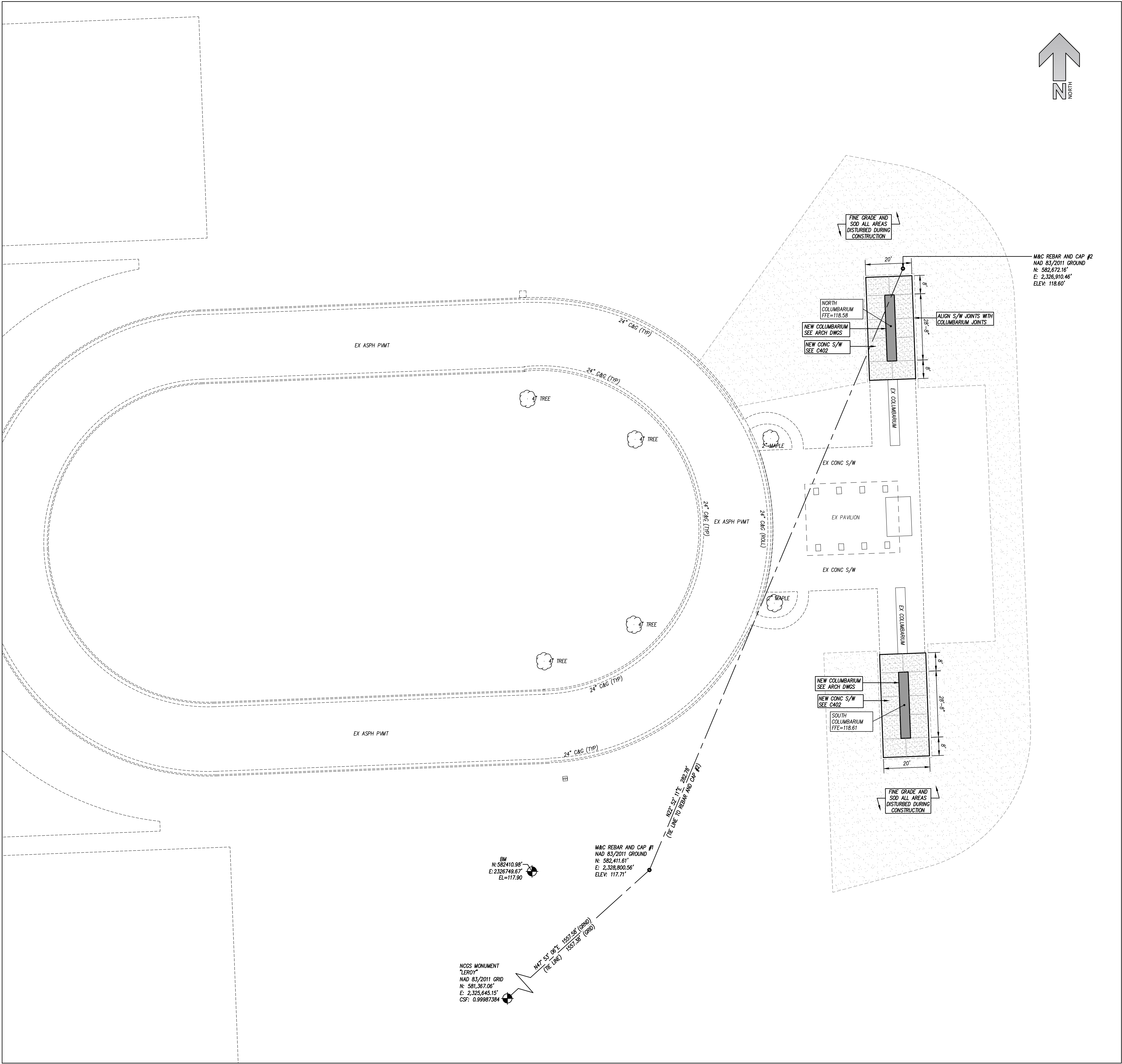
GENERAL NOTES

1. ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NECESSARY TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD OF THIS PLAN SHALL BE REMOVED.
2. ALL EXISTING UTILITIES TO BE REMOVED SHALL BE IDENTIFIED BY AN EXISTING PIPEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE PRESERVED TO ALLOW NEW CONSTRUCTION SHALL BE IDENTIFIED BY A PARALLEL LINE. GENERAL NOTES C-10 THROUGH C-14 OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
3. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
4. ALL EXISTING MATERIAL, GENERAL WASTE, AND DEBRIS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION SHALL BE OBTAINED FROM SURVEY BY JACQUE & GREED, DATED 4-8-2005. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND THE SURVEYOR AND THE DESIGNER SHALL BE RESPONSIBLE FOR ANY OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. IF ANY UNREASONABLE DELAY OR INABILITY TO PROTECT ANY EXISTING UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE CONTRACTOR IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
7. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OTHERS FROM THE OWNER'S FACILITY. THE CONTRACTOR SHALL REPAIR IMMEDIATELY AS DIRECTED BY THE PROJECT/ AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY DAMAGE TO ACCESS, EGRESS AND UTILITIES. THE CONTRACTOR SHALL IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
8. THE SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA. INFORMATION OBTAINED FROM F.I.R.M. MAP 372025800K, DATED 6-20-2018.
9. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAY OR ADJACENT PROPERTIES UNLESS THE OWNER NOTICES CONTRACTOR IN WRITING OF THE NATURE OF APPROVED WORK, EASEMENTS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

GRAPHIC SCALE



(IN FEET)
inch = 20 ft.



GENERAL NOTES

1. ALL DIMENSIONS SHOWN ARE TO FACE OF STRUCTURE WALL AND EDGE OF PAVEMENT, UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
3. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
4. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
5. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.

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IN ASSOCIATION WITH:



PROFESSIONAL SEALS:



Digitally signed by Steven Miller
Date: 2025.06.24 05:43:34 -04'00'

PROJECT INFORMATION:



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CEMETERY EXPANSION

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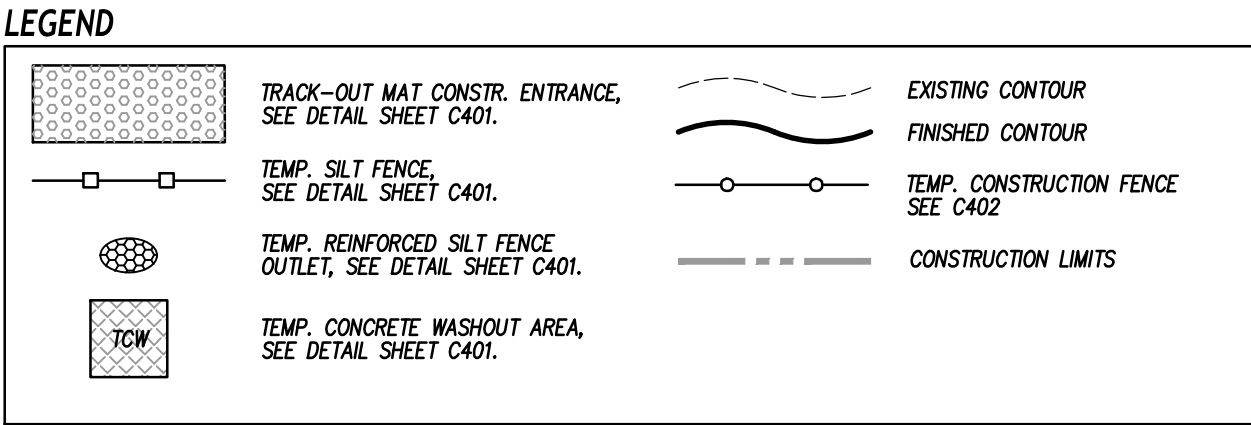
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2435.01	SM	SM	06/24/2025

SHEET NAME:

SITE PLAN

C201

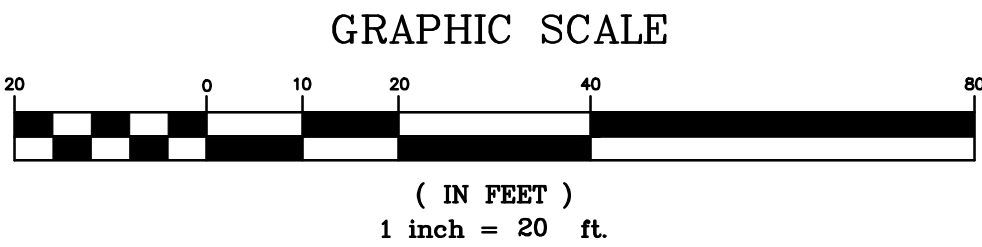


CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL INSTALL A RAIN GUAGE ON SITE AND PERFORM AND RECORD SELF-INSPECTIONS THROUGHOUT CONSTRUCTION.
2. INSTALL PERIMETER STRIP FENCE. COORDINATE EXACT LOCATION OF FENCING AND GATES WITH OWNER.
3. INSTALL SELF-INSPECTION FENCE AND CONSTRUCTION ENTRANCE. DISTURB SURFACES ONLY AS NECESSARY TO INSTALL PERIMETER FENCING.
4. STRIP AND STOCKPILE TOPSOIL, AND PERFORM SITE GRADING.
5. PERFORM DEMOLITION OF EX. PAVEMENT.
6. PERFORM REGULAR INSPECTION, MONITORING AND RECORD-KEEPING OF SEDIMENT AND EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION.
7. CONSTRUCT NINE COLUMBARIA AND SIDEWALKS.
8. RE-SPREAD TOPSOIL AND APPLY SOO (OR TEMP. SEED, MULCH) TO ALL EXPOSED OR DISTURBED AREAS OUTSIDE OF PAVED AREAS.
9. VEGETATE OR OTHERWISE STABILIZE ALL DISTURBED GROUND SURFACES WHERE GRADING ACTIVITIES HAVE OCCURRED. WEED MANAGEMENT AND MAINTENANCE OF THE STABILIZATION TIME FRAME LISTED ON C401.
10. DURING COMPLETION OF CONSTRUCTION, MAINTAIN PERIMETER SOO OR GERMINATION GRASS. REMOVE PERIMETER STRIP FENCE, TREE PROTECTION FENCE AND TEMP. CONSTRUCTION ENTRANCE. FENCE MAINTENANCE AND WEED MANAGEMENT PROVIDE A SMOOTH TRANSITION TO ADJACENT FINISH GRADES. APPLY SEED, MULCH AND MAINTAIN TO ANY REMAINING DISTURBED AREAS.
11. REMOVE TEMP. CONSTRUCTION FENCING FOLLOWING APPROVAL OF OWNER.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION (SECTION 0440) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISBURSED AREAS ACCORDING TO GROUND STABILIZATION (SECTION 0440) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET THE STATE AND SOILMENT CONTRACT REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION METHODS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING CONSTRUCTION ESTIMATES. MATTING SHALL BE WATER SPECIFIC (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.



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**DEPARTMENT OF MILITARY
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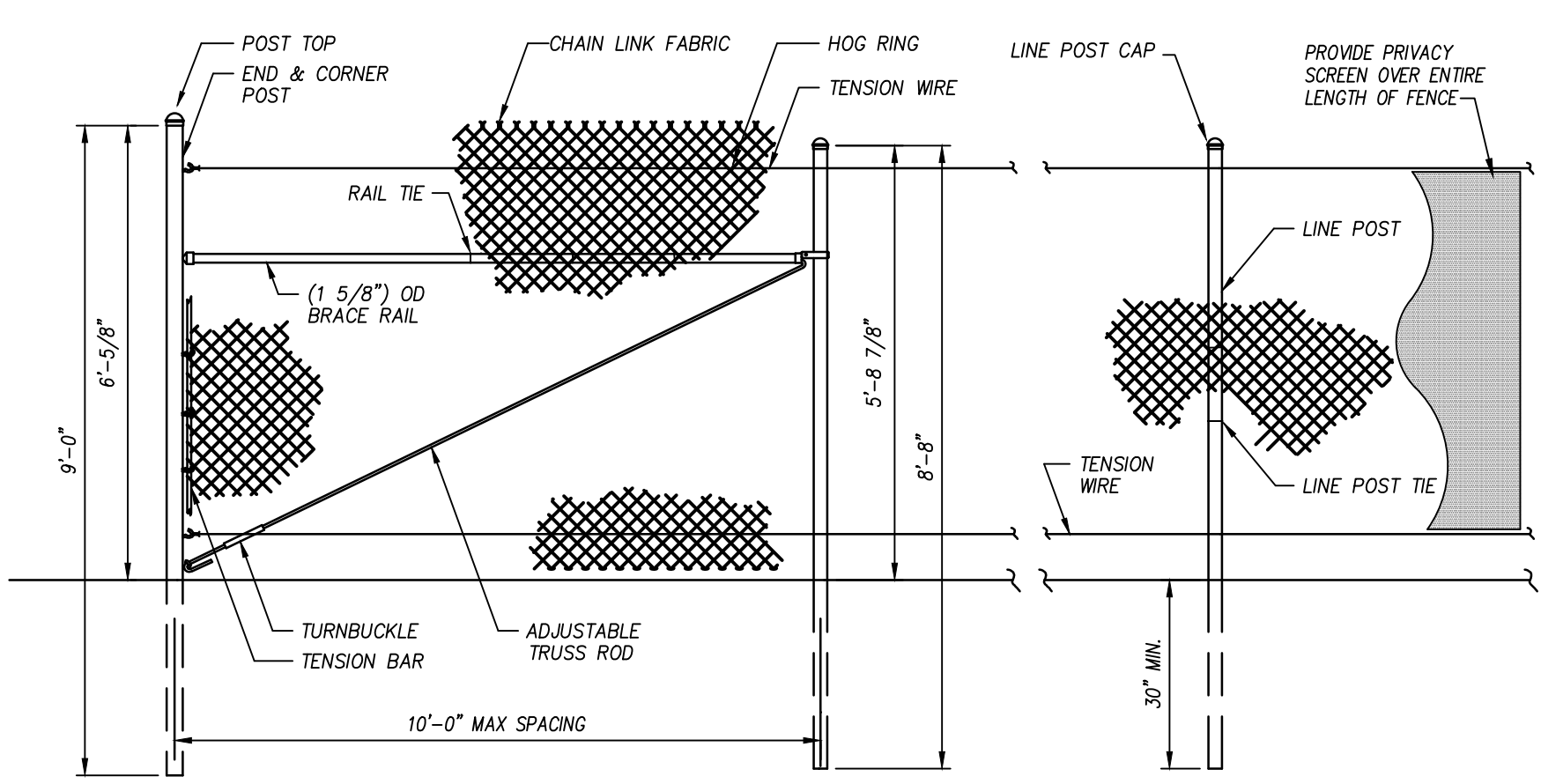
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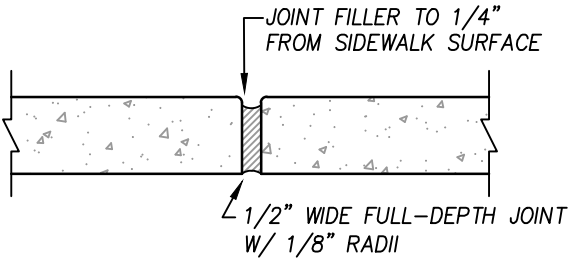
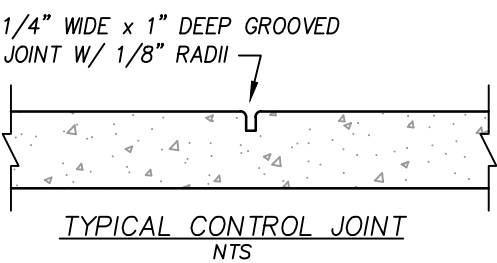
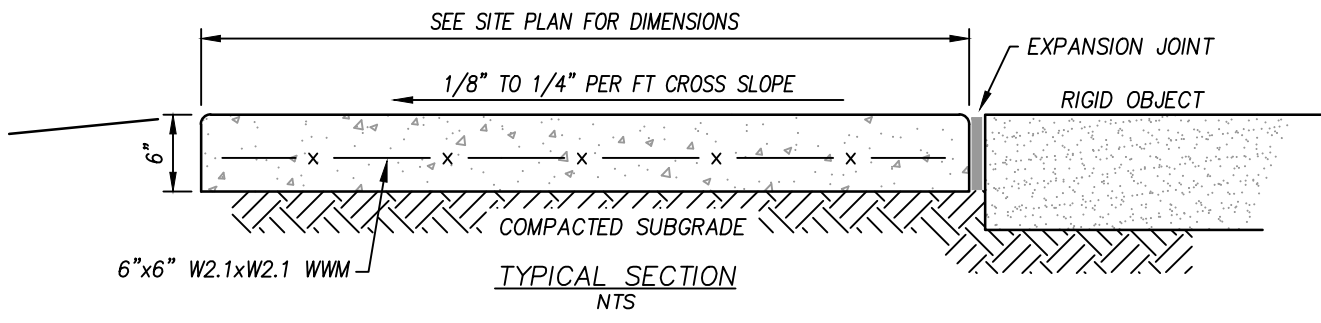
SHEET NAME:

SITE GRADING & EROSION CONTROL PLAN

C301



- NOTES:
1. STEEL CHAIN-LINK FENCE FABRIC: MAXIMUM 2-1/4" MESH, MINIMUM 0.106" DIAMETER (#12 GAUGE).
 2. END/CORNER POSTS: 2.875" OUTSIDE DIAMETER STEEL PIPE.
 3. LINE POSTS: 2.375" OUTSIDE DIAMETER STEEL PIPE.
 4. TENSION WIRE: 7 GAUGE COATED COIL SPRING TENSION WIRE. WIRE TIES: TIE FABRIC TO RAILS & BRACES 24" ON CENTER. TO TIE FABRIC TO TENSION WIRE, USE HOG RINGS SPACED 24" ON CENTER.
 5. DRIVE POSTS DIRECTLY INTO FIRM GROUND. CONCRETE FOOTINGS SHALL BE UTILIZED AS NEEDED TO STABILIZE POSTS. STABILITY OF POSTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO ENSURE SAFE BARRIER.
 6. PROVIDE PRIVACY SCREEN (90% BLOCKAGE) OVER ENTIRE LENGTH OF FENCE.



- GENERAL NOTES:
1. PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADI IN SIDEWALK AT LOCATIONS SHOWN ON THE SITE PLAN AND TO MATCH LOCATIONS AT ADJACENT EXISTING COLUMBARIUM.
 2. PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS THE EXISTING SIDEWALK AND COLUMBARIUM, WHERE SHOWN ON THE SITE PLAN, AND TO MATCH LOCATIONS AT ADJACENT EXISTING COLUMBARIUM.
 3. ALL CONCRETE SHALL BE 3,000 P.S.I.
 4. ALL SIDEWALKS SHALL RECEIVE FINE BROOM FINISH PERPENDICULAR TO PATH OF TRAVEL.

TEMPORARY CONSTRUCTION FENCE

N.T.S.

CONCRETE SIDEWALK

N.T.S.

SEEDING NOTES

SURFACE STABILIZATION REQUIREMENTS

SOD AND SEEDBED PREPARATION

1. PERMANENT OR TEMPORARY GROUND COVER SHALL BE PROVIDED OVER ALL DISTURBED AREAS OF THE SITE AS SOON AS POSSIBLE, HOWEVER, NO LATER 14 DAYS AFTER CONSTRUCTION ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED DURING ANY PHASE OF WORK.
2. TEMPORARY OR PERMANENT GROUND COVER SHALL BE PROVIDED ON ALL SLOPES WITHIN 14 DAYS AFTER CONSTRUCTION ACTIVITIES PERMANENTLY OR TEMPORARILY CEASED.
3. USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
4. APPLY 4000 LB/ACRE GRAIN STRAW OVER SEEDBED AREAS AND ANCHOR STRAW CRIMPING, ASPHALT TACKING OR OTHER APPROVED METHOD.
5. MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
1. CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
2. DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
6. INSTALL SOD OR SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSED AREAS TO BECOME EXCESSIVELY DRY.
8. INSPECT ALL TURF AREAS AND MAKE NECESSARY REPAIRS OR RE-SEEDINGS AS NEEDED.

LIME & FERTILIZATION SCHEDULE

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH REQUIRED COVERAGE

PERMANENT TURF SCHEDULE

DATE	TYPE	NOTES
APR 15 - AUG 15	TIF-TUFF BERMUDAGRASS SOD	24-IN MIN. ROLL WIDTH. NETTING REMOVED DURING INSTALL.
AUG 15 - APR 15	TIF-TUFF BERMUDAGRASS SOD WINTER RYE OVER-SEED (25-LBS/AC)	24-IN MIN. ROLL WIDTH. NETTING REMOVED DURING INSTALL.

SOD MAINTENANCE NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR REGULAR MOWING AND FOR FURNISHING AND APPLYING ADEQUATE WATER TO THE INSTALLED SOD UNTIL PROJECT FINAL COMPLETION BUT NO LESS THAN 2-WEEKS FOLLOWING SOD INSTALLATION.
2. WATERING SHALL BE MONITORED TO ENSURE PROPER RATES ARE APPLIED. OVER-WATERING SHALL BE AVOIDED.
3. DEAD OR DYING SOD SHALL BE REPLACED PRIOR TO OWNER'S ACCEPTANCE.



SOD INSTALLATION:

1. LAY SOD IN A STAGGERED PATTERN WITH STRIPS BUTTED TIGHTLY AGAINST EACH OTHER.
2. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH SUBSOIL.
3. WATER TO A DEPTH OF 4-IN AS SOON AS SOD IS LAID AND CONTINUE WATERING AS NEEDED.
4. MOW WHEN SOD IS ESTABLISHED.

TEMPORARY TURF SCHEDULE

DATE	TYPE	PLANTING RATE
AUG 15 - APR 15	3-WAY TALL FESCUE BLEND AND WINTER RYE (GRAIN)	70 LBS/ACRE 25 LBS/ACRE
APR 15 - AUG 15	3-WAY TALL FESCUE BLEND AND GERMAN MILLET *** OR SUDANGRASS (SMALL-STEMMED VAR.) ***	120 LBS/ACRE 25 LBS/ACRE 30 LBS/ACRE

CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENuded AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

*** TEMPORARY - RESEED ACCORDING TO OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12" IN HEIGHT BEFORE MOWING. OTHERWISE FESCUE MAY BE SHADED OUT.

LAWN MAINTENANCE NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FULL GERMINATION AND MAINTENANCE (PER SPECIFICATIONS) UNTIL FINAL ACCEPTANCE.

SEEDING SCHEDULES AND PREPARATION

N.T.S.

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IN ASSOCIATION WITH:



PROFESSIONAL SEAL:



Digitally signed by Steven Miller
Date: 2025.06.24 05:43:50-04'00'

PROJECT INFORMATION:



North Carolina
DEPARTMENT OF MILITARY
AND VETERANS AFFAIRS

EASTERN CAROLINA SV
CEMETERY EXPANSION

SCO# 24-29071-01B FAI# NC-22-12
Goldsboro, NC 27534

REVISIONS

No.	Date	Description
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All designs, drawings, specifications, design calculations, and notes shall become the sole property of the State of North Carolina and may be used on any other design or construction without additional compensation to the Designer. The use of the design, including drawings and specifications, by any person or entity, for the purpose other than the project as set forth in the State of North Carolina Standard Form of Agreement between the Owner and Designer, shall be at the full risk of such person or entity and the Designer shall be relieved of any liability whatsoever, including claims for personal injury, property damage, or death as a result of such other use.

Original drawing is 24"x36" - Do not scale contents.

PROJECT#	DRAWN	CHECKED	DATE
2435.01	SM	SM	06/24/2025

SHEET NAME:

SITE DETAILS

C402

GENERAL NOTES

GENERAL

- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
- "U.O.N." MEANS "UNLESS OTHERWISE NOTED".
- DESIGN LIVE LOADS:
FLOORS:
EXTERIOR SLABS ON GRADE 100 PSF
- LATERAL LOAD DESIGN:
SEISMIC DESIGN DATA Ss = 20.1% SI = 8.0% USE GROUP I
SITE CLASSIFICATION - D
SEISMIC DESIGN CATEGORY B Ie = 1.00
BASIC DESIGN WIND VELOCITY 120 MPH - EXPOSURE C
- MAXIMUM UNIT WEIGHTS FOR FOLLOWING MATERIALS:
NORMAL CONCRETE NOT OTHERWISE NOTED150 PCF
- ALL SAFETY REGULATIONS TO BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL IS CONTRACTOR'S RESPONSIBILITY. CONSULT ARCHITECT IN CASE OF QUESTIONS.
- STRUCTURAL FRAME TO BE BRACED UNTIL ERECTION IS COMPLETE AND PERMANENT CONNECTIONS, BRACING MEMBERS OR STEEL BRACINGS ARE INSTALLED.
- ALL LINTELS TO BEAR 8" EACH SIDE OF OPENING, U.O.N.

FOUNDATIONS

- ALLOWABLE SOIL PRESSURE 1750 PSF MIN PER FROEHLING & ROBERTSON GEOTECHNICAL REPORT 64D-0008, DATED 5/12/2025. VERIFY PRIOR TO CONSTRUCTION.
- FOOTINGS SHALL BE EXCAVATED TO LOWER ELEVATION THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE ARCHITECT TO REACH ADEQUATE BEARING.
- WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT BRACING UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND AT ADEQUATE STRENGTH.
- COMPACT ALL FILL TO 98% MAXIMUM DENSITY AS DETERMINED BY ASTM D698. PLACE IN 8" MAXIMUM LOOSE THICKNESS. VERIFY FIELD DENSITY, ASTM D1556, WITH AT LEAST ONE TEST PER 2000 SQ FT PER LAYER. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.

CONCRETE

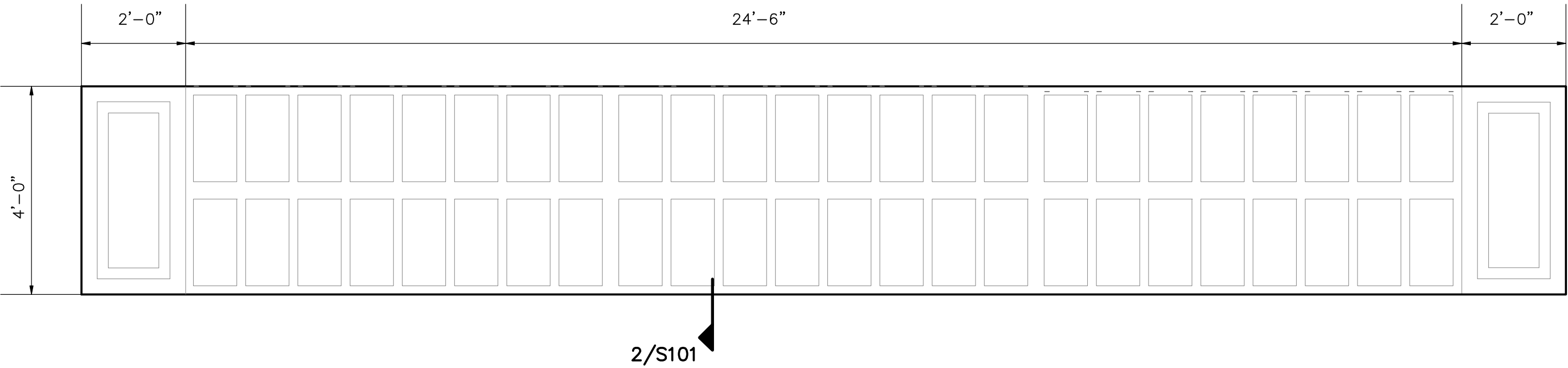
- CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS U.O.N.
PRECAST CONCRETE 5000 PSI
FOUNDATION WALLS, RETAINING WALLS, GRADE BEAMS 4000 PSI
SLABS ON GRADE, WALKS, FOOTINGS, OTHER 3000 PSI
- REINFORCING: ASTM A615 - STIRRUPS AND TIES GRADE 40 - ELSEWHERE GRADE 60, U.O.N. ALL REINF. TO BE OF WELDABLE GRADE WHERE WELDING SHOWN ON DRAWINGS, ASTM A706.
- GROUT UNDER AND BETWEEN PRECAST CONCRETE AND UNDER BASE PLATES TO BE NON-SHRINKING GROUT APPROVED BY THE ARCHITECT.
- BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES 40 TIMES THE BAR DIAMETER, U.O.N.
- CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL:
CAST IN PLACE AND PRECAST CONCRETE U.O.N.
SLABS 1"
PRECAST CONCRETE COPING, SILLS, ETC. 2 1/2"
BEAMS, PIERS, WALLS, PEDESTALS, COLUMNS 2"
FOOTINGS, GRADE BEAMS 3"
SLABS EXPOSED TO EARTH AND WEATHER 1 1/2"
WALLS CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
- PROVIDE WIRE MESH IN ALL SLABS ON GROUND 1 1/2" FROM TOP OF SLAB:
4" SLABS 6x6-W1.4xW1.4
5" SLABS 6x6-W2.9xW2.9
- PROVIDE CHAMFER OR RADIUS AT EXPOSED EDGES AS NOTED ON STRUCTURAL AND ARCHITECTURAL DRAWINGS, 3/4" X 45, U.O.N.
- ALL EXPANSION STRIPS 1/2" THICK, U.O.N.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FAR ENOUGH IN ADVANCE OF THE TIME EACH CONCRTE POUR IS TO BE MADE TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT IN ADVANCE OF THE TIME THAT 90 PERCENT OF THE STEEL HAS BEEN PLACED.

STRUCTURAL STEEL

- STRUCTURAL STEEL: ASTM A36, ASTM A500.- GRADE B (Fy=46 ksi)
- DESIGN, FABRICATION AND ERECTION: AISC SPECIFICATIONS FOR BUILDINGS.
- CONNECTIONS NOT DETAILED SHALL BE DESIGNED FOR LOADS SHOWN ON DRAWINGS OR FOR LOADS GIVEN IN STANDARD AISC LOAD TABLES FOR SPAN, SECTION AND STRENGTH SPECIFIED. SHOP CONNECTIONS: WELDED. FIELD CONNECTIONS: 3/4" BOLTS, ASTM A325. TIGHTEN TO PULL ALL MATING SURFACES INTO CONTACT - MINIMUM TORQUE OF 150 FT-LBS.
- WELDS SHALL BE MADE ONLY BY OPERATORS CERTIFIED BY THE STANDARD QUALIFICATION PROCEDURE OF THE AMERICAN WELDING SOCIETY FOR TYPE OF WELD REQUIRED.
- PROVIDE ERECTION BOLTS AS REQUIRED FOR WELDED CONNECTIONS. ERECTION BOLTS EXPOSED OUTSIDE SHALL BE REMOVED AND HOLES PLUGGED AS DIRECTED BY ARCHITECT. GRIND IF REQUIRED.
- RETURN ALL WELDS AT CORNERS TWICE THE NOMINAL SIZE OF THE WELD MINIMUM.
- WHERE PLATES ARE FILLET WELDED TO MEMBERS AND NO WELD SIZE IS SPECIFIED PROVIDE FULL LENGTH FILLET WELDS BOTH SIDES OF PLATE. WELD SIZES SHALL BE AS FOLLOWS:

PL THICKNESS (in)	3/8	1/2	5/8	3/4	7/8	1	5/8	3/4
WELD SIZE (in)	3/8	3/8	3/8	1/2	1/2	5/8	3/8	7/8

- PROVIDE HOLES FOR BLOCKING AS PER ARCHITECT DRAWINGS.
- PROVIDE ALL MISCELLANEOUS ANGLES, BENT PLATES AND CHANNELS AS SHOWN ON ARCHITECT'S DETAILS. WHERE ARCHITECTURAL AND STRUCTURAL DETAILS ARE IN CONFLICT, ARCHITECTURAL DRAWINGS GOVERN.



FOUNDATION PLAN

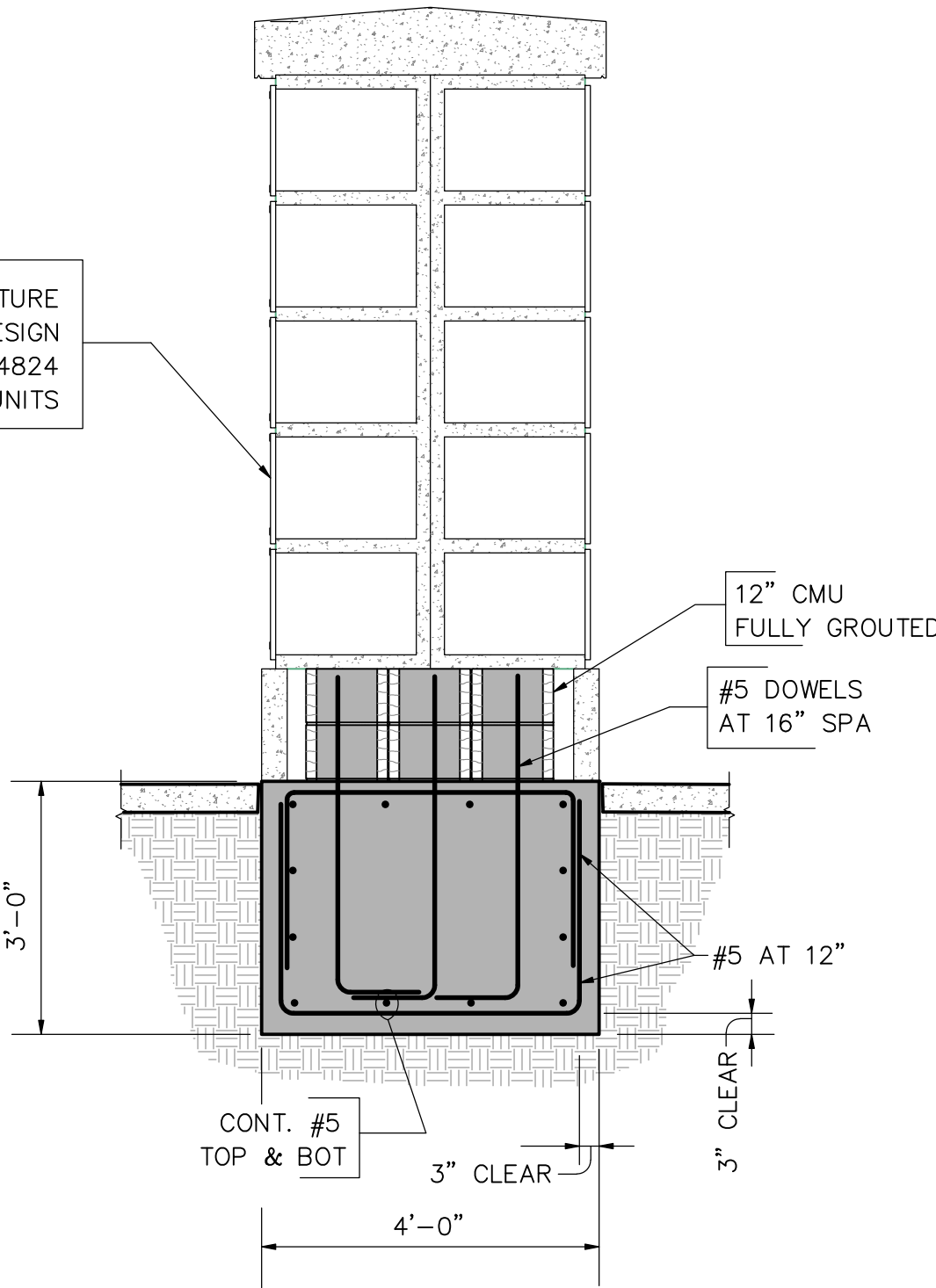
NOTES:

- REFER TO CIVIL/SITE AND ARCHITECTURAL DRAWINGS FOR ALL TOP OF FOOTING AND LAYOUT INFORMATION

STRUCTURAL MASONRY

- MASONRY FOUNDATION & RETAINING WALLS ARE CONSIDERED TO BE STRUCTURAL MASONRY.
- COMPRESSIVE STRENGTH OF MASONRY UNITS:
SOLID CLAY UNITS 6000 PSI
CONCRETE UNITS 2000 PSI ON NET AREA
- MORTAR: TYPE S, ASTM C270 FOR ALL MASONRY
- GROUT FOR REINFORCED MASONRY: 9" TO 11" SLUMP 3/8" MAXIMUM SIZE (PEA GRAVEL) CONCRETE FOR GROUT SPACE 3" x 4" AND GREATER. 5" SLUMP FINE GROUT ASTM C476 FOR GROUT SPACE 2" x 4" TO 3" x 4". COMPRESSIVE STRENGTH - 3000 PSI.
- MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE FILLING IS 4 FEET FOR PEA GRAVEL CONCRETE AND 3 FEET FOR FINE GROUT.
- REINFORCING GRADE AND DETAILS AS FOR CONCRETE. TIE IN POSITION AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINF. DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. HORIZONTAL BARS MAY BE SPLICED WITH MINIMUM LAP OF 48 TIMES THE BAR DIAMETER, U.O.N. DO NOT SPLICE VERTICAL BARS EXCEPT AS DETAILED.
- TIE WYTHES WITH HORIZONTAL REINF AS SPECIFIED.
- PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.

PRECAST COLUMBARIUM SUPERSTRUCTURE
PER DELEGATED DESIGN
REFER TO SPEC SECTION 034824
PRECAST CONCRETE COLUMBARIUM UNITS



FOUNDATION SECTION

NOTES:

- SEE SHEET A201 FOR MORE INFO. REFER TO APPROVED PRECAST FABRICATION DRAWINGS FOR ANCHOR LAYOUT



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