

# DRAWING INDEX

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# GENERAL NOTES

## GENERAL NOTES:

- ACTUAL FIELD CONDITIONS MAY VARY FROM EXISTING CONDITIONS SITE SURVEY SHOWN ON PLAN. CONTRACTOR SHALL FIELD VERIFY ACTUAL SITE CONDITIONS PRIOR TO COMMENCING WORK.
- CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES FOR ALL SITE FURNISHINGS AND MATERIALS.
- CONTRACTOR SHALL PROVIDE MOCK UPS OF ALL PAVING MATERIALS AND PATTERNS.
- CUSTOM DESIGN WILL NEED TO BE DETAILED AND REVIEWED PRIOR TO INSTALLATION IN THE FIELD. THIS IS A DESIGN-BUILD PROCESS AND COLLABORATIVE EFFORT WITH THE FABRICATOR, STRUCTURAL ENGINEER, LANDSCAPE ARCHITECT, CONTRACTOR, AND OWNER AT MINIMUM. MULTIPLE SHOP DRAWINGS AND MATERIAL PRODUCT SUBMITTALS ARE ANTICIPATED DURING THIS PROCESS.
- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE OFFICE OF STATE CONSTRUCTION, DEPARTMENT OF INSURANCE, NCDENR, AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL GUIDELINES.
- EXISTING SURVEY INFORMATION INCLUDING TOPOGRAPHIC INFORMATION PROVIDED BY ARK CONSULTING GROUP, PLLC, UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, COORDINATING AND PAYMENT FOR ALL NECESSARY LOCATING SERVICES INCLUDING INDEPENDENT LOCATING SERVICES. THE CONTRACTOR SHALL PROVIDE NOTICE OF EXCAVATION TO NOTIFICATION CENTER AND FACILITY OWNERS (PER NC STATUTE) NO LESS THAN 3 BUSINESS DAYS AND NO MORE THAN 12 WORKING DAYS PRIOR TO BEGINNING DEMOLITION, EXCAVATION OR ANY OTHER FORM OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS. NO EXCAVATION OR DEMOLITION SHALL BE STARTED WITHOUT ALL UTILITIES BEING LOCATED.
- ALL SUB-SURFACE UTILITIES IDENTIFIED ON THE CONSTRUCTION DOCUMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON SURVEY INFORMATION GATHERED FROM FIELD INSPECTION AND/OR ANY OTHER APPLICABLE RECORD DRAWINGS WHICH MAY BE AVAILABLE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS.
- EXISTING IMPROVEMENTS DAMAGED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE RESTORED OR REPLACED TO ORIGINAL CONDITION AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COORDINATING PERMITS, INSPECTIONS, CERTIFICATIONS AND OTHER REQUIREMENTS WHICH MUST BE MET UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN "AS-BUILT" DRAWINGS TO RECORD THE ACTUAL LOCATION OF ALL PIPING PRIOR TO CONCEALMENT, VALVE AND MANHOLE CHANGES, AND HARDSCAPE OR LANDSCAPE CHANGES. DRAWINGS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AT REGULAR INTERVALS, OR AS REQUESTED THROUGHOUT THE PROJECT FOR RECORD KEEPING.
- IF DEPARTURES FROM THE PROJECT DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THERE OF SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY EXISTING UTILITY LINES REQUIRED TO COMPLETE ANY PORTION OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE COORDINATION AND COSTS OF THE RELOCATION AND ASSOCIATED WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH CAUSED BY THE CONTRACTOR. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
- THE LANDSCAPE ARCHITECT AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND/OR METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
- ROADWAYS (TEMPORARY OR PERMANENT) MUST BE CAPABLE OF SUPPORTING FIRE FIGHTING APPARATUS (85,000 LBS) DURING ALL PHASES OF CONSTRUCTION ONCE VERTICAL CONSTRUCTION HAS BEGUN.
- FINE GRADING COORDINATED AND PROVIDED BY CIVIL ENGINEER

## SITE LAYOUT PLAN:

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES AND REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT PRIOR TO ANY CONSTRUCTION.
- ALL DIMENSIONS AND COORDINATES ARE GIVEN IN DECIMAL FEET UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- ALL WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE FROM DRAWINGS.
- ALL UTILITIES WITH SURFACE ACCESS SHALL BE LOCATED WITHIN THE PAVING PATTERN AND SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. REFER TO LAYOUT DRAWINGS.
- ALL SIDEWALKS WITHIN THE RIGHT-OF-WAY SHALL BE LAID OUT PER THE CIVIL ENGINEER.
- CURBS ARE DIMENSIONED PER THE CIVIL ENGINEER.
- ALL ANGLES 90 DEGREES UNLESS OTHERWISE NOTED.
- ALIGN ALL JOINTS, CORNERS AND EDGES AS SHOWN.
- FINAL LAYOUTS TO BE APPROVED BY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL, STRUCTURAL, AND MEP DRAWINGS AT ALL TIMES PRIOR TO AND DURING CONSTRUCTION.
- ALL CURB TAPERS ARE PER THE CIVIL ENGINEER.
- WHERE NEW SIDEWALK ADJOINS EXISTING WALK, PROVIDE EXPANSION JOINT BY DRILLING INTO THE FACE OF THE EXISTING WALK FOR PLACEMENT OF DOWELS. THE NEW SIDEWALKS INTO NEAREST EXISTING PAVEMENT JOINT, MATCH WIDTH OF EXISTING WALKWAY.
- CONTRACTOR WILL BE PROVIDED WITH ELECTRONIC COPY OF PLANS FOR ALL LAYOUT INFORMATION. CONTRACTOR SHALL COORDINATE ACAD FORMAT WITH OWNER'S REPRESENTATIVE.
- REFERENCE ARCHITECTURAL DRAWINGS FOR BUILDING LAYOUT INFORMATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF THE CONSTRUCTION LAYDOWN AREA, PERIMETER FENCE, AND ASSOCIATED GATES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE REMOVAL OF THE CONSTRUCTION LAYDOWN AREA PERIMETER FENCE AND ASSOCIATED GATES AT THE COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL REFERENCE THE DESIGN PLANS FOR DIMENSIONS, JOINT LOCATIONS, AND INLAY SPECIFICATIONS NEAR BUILDINGS AND IN COURTYARDS. CONTRACTOR SHALL PROVIDE JOINTS IN WALKWAYS AND HARDSCAPE PER DETAILS OR AS INDICATED ON LANDSCAPE/HARDSCAPE PLAN SHEETS.
- ALL DIMENSIONS ARE IN RADII TO OUTSIDE FACE OF BUILDINGS, TO CENTERLINES, AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.
- MAXIMUM RUNNING SLOPE FOR WALKING SURFACES CANNOT BE GREATER THAN 1:20 AND CROSS SLOPES CANNOT BE GREATER THAN 1:48.
- SIGHT TRIANGLES - NOTHING OVER 30" HIGH SHALL BE ALLOWED WITHIN THE SIGHT DISTANCE TRIANGLES. SEE CIVIL DRAWINGS FOR APPLICABLE SIGHT DISTANCE TRIANGLES.
- THE SITE SHALL BE FULLY STABILIZED (85% COVERAGE) PRIOR TO ISSUANCE OF A BUILDING CERTIFICATE OF OCCUPANCY OR PROJECT APPROVAL.

## SITE LIGHTING PLAN:

- PLAN IS FOR FIXTURE SELECTION AND LOCATION ONLY. ELECTRICAL CIRCUITRY DESIGN AND ENGINEERING BY OTHERS.
- THE CONTRACTOR SHALL ENSURE THAT ALL NEW ELECTRICAL INSTALLATIONS ARE IN ACCORDANCE WITH THE MOST RECENT NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS.
- THE CONTRACTOR SHALL COORDINATE NEW LIGHT POLE FOUNDATION INSTALLATIONS AND UNDERGROUND CONDUIT INSTALLATIONS WITH SCHEDULED PAVING AND SITE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL COMPLETED SITE IMPROVEMENTS IF DISTURBED FOR ADDITIONAL INSTALLATIONS.
- THE CONTRACTOR SHALL VERIFY ELECTRICAL CIRCUITS AND ASSOCIATED CONNECTIONS OF EXTERIOR LIGHTING FIXTURES BEFORE DISCONNECTION AND/OR REINSTALLATION IN EXISTING ELECTRICAL DISTRIBUTION EQUIPMENT. EXISTING CONNECTIONS NOT ASSOCIATED WITH THE SCHEDULED REMOVAL OF ANY EXISTING LIGHT FIXTURES OR POWER SERVICE SHALL BE MAINTAINED.
- UNDERGROUND CONDUIT SHALL BE ROUTED TO AVOID DISTURBING EXISTING WALKS.
- PHOTOMETRIC LIGHTING STUDY TO BE COMPLETED BY OTHERS.

## PLANTING SOILS PLAN:

- REFER TO SOILS PLANS SHEET L6.10 - L6.14 FOR PLANTING SOIL NOTES.

## IRRIGATION PLAN:

- REFER TO IRRIGATION PLANS SHEET IR1.11 FOR NOTES

## PLANTING PLAN:

- VERIFY ALL QUANTITIES AND REPORT ANY DISCREPANCIES OR INACCURACIES IN THE PLANS TO THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- LANDSCAPE WORK SHALL INCLUDE THE FURNISHING, INSTALLATION, AND WARRANTY OF ALL PLANTING MATERIALS WITHIN THE PROJECT AREA.
- THE LANDSCAPE CONTRACTOR SHALL ASCERTAIN THE LOCATION OF ALL EXISTING AND NEW UNDERGROUND UTILITIES PRIOR TO EXCAVATION FOR PLANTING. DAMAGES TO UTILITIES CAUSED BY THE LANDSCAPE OPERATION SHALL BE CORRECTED BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.
- LANDSCAPING SHALL REMAIN CLEAR FROM ANY FIRE HYDRANTS ON THE SITE.
- ALL STREET TREES PER CIVIL ENGINEER ASR AND SPR APPROVED PLANS.
- MINIMUM CONTAINER SIZES FOR SHRUBS TO BE 7 GALLON. MINIMUM CONTAINER SIZES FOR GROUNDCOVER TO BE 1 GALLON.
- TREE PROTECTION NOTE: TREE PROTECTION FENCING MUST BE IN PLACE PRIOR TO ANY DEMOLITION, LAND DISTURBANCE OR ISSUANCE OF A GRADING PERMIT AND SHALL INCLUDE WARNING SIGNS POSTED IN BOTH ENGLISH AND SPANISH AS FOLLOWS: "NO TRESPASSING/TREE PROTECTION AREA/PROHIBIDO ENTRAR / ZONA PROTECTORA PARA LOS ARBOLES."
- PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE LOWERING OF EXISTING GRADE AROUND A TREE OR STRIPPING OF TOPSOIL, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA.
- ROOT ZONE PROTECTION AREA: REFER TO CIVIL ENGINEER ASR AND SPR APPROVED PLANS FOR MORE INFORMATION. THE CRITICAL ROOT ZONE OF EACH PRESERVED TREE MUST BE WITHIN THE PROTECTIVE YARD, PER THE ORDINANCE. NO MORE THAN TWENTY-FIVE (25) PERCENT OF THE CRITICAL ROOT ZONE MAY BE DISTURBED. THE PREFERRED METHOD IS TO RESTRICT ACCESS BY INSTALLING A BARRIER TO KEEP MATERIALS, PEOPLE, OR EQUIPMENT OUT OF THE CRITICAL ROOT ZONE. BARRIER SHALL BE ACCOMPANIED BY TEMPORARY SIGNS LABELING THE ROOT ZONE.
- SEED BED PREPARATION: ALL AREAS TO BE SEEDBED ARE TO RECEIVE PLANTING SOIL AS INDICATED ON THE SOILS PLAN SHEETS AND IN ACCORDANCE WITH THE SPECIFICATIONS. ALL DEBRIS, ROCKS, ETC. LARGER THAN 1/2" ARE TO BE REMOVED. ALL LARGE CONCENTRATIONS OF GRAVEL & DEBRIS REGARDLESS OF SIZE ARE TO BE REMOVED PRIOR TO SEEDING OR PLANTING.
- ALL PLANT BED AREAS ARE TO RECEIVE PLANTING SOIL AS INDICATED ON THE SOILS PLAN SHEETS AND IN ACCORDANCE WITH SPECIFICATIONS. SEE PLANTING DETAILS SHEET (LG.90) FOR ADDITIONAL SPECIFICATIONS.
- SCARIFY PLANT PIT WALLS. CONSULT LANDSCAPE ARCHITECT FOR ALTERNATE COMPLIANCE.
- SHREDDED HARDWOOD MULCH 3" DEEP EXCEPT AT CROWN OF PLANT UNLESS OTHERWISE NOTED. FLARE AT CROWN SHOULD BE REVEALED. BACKFILL CONSISTS OF THOROUGHLY BROKEN UP NATIVE SOIL PIECES SHOULD BE NO LARGER THAN WHAT PASSES THROUGH A ONE INCH SCREEN. IF ADDITIONAL SOIL IS REQUIRED FOR BACKFILL DUE TO DETRIMENTAL SUBSOIL DRAINAGE CONDITIONS, USE SOIL SIMILAR TO EXISTING NATIVE SOIL. ADDITIONAL SOIL TO BE APPROVED BY LANDSCAPE ARCHITECT. MAXIMUM SAUCER HEIGHT IS 6 INCHES.
- FOR B&B PLANTS, NATURAL FIBER BURLAP SHOULD BE TURNED DOWN BY 1/3 TOTAL HEIGHT OF ROOT BALL. PLASTIC FIBER BURLAP AND WIRE BASKETS SHOULD BE REMOVED TO 2/3'S OF TOTAL HEIGHT OF ROOT BALL.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING THE TREE UPRIGHT AND PLUMB THROUGHOUT THE WARRANTY PERIOD. IF STABILIZATION IS NECESSARY SEE STAKING IN TREE DETAIL. ORANGE FLAGGING TAPE SHOULD BE ATTACHED TO SUPPORT WIRE. STAKING SHOULD BE REMOVED BY CONTRACTOR AT END OF ONE YEAR WARRANTY PERIOD OR AS DIRECTED BY GROUNDS MANAGEMENT.
- USE STANDARD "GATOR" BAGS FOR WATERING TREES IN AREAS NOT UNDER IRRIGATION. INCORPORATE TERRA-SORB (OR EQUAL) AS PER MANUFACTURER'S RECOMMENDATIONS. FOR AREAS NOT UNDER IRRIGATION.
- USE "BIO-BARRIER" OR EQUIVALENT ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR TREES THAT WILL BE PLANTED WITHIN 10' OF PAVEMENT
- LANDSCAPING/C.O. STANDARDS NOTE: ALL LANDSCAPING MUST BE IN PLACE PRIOR TO REQUEST FOR A CERTIFICATE OF COMPLIANCE.
- DO NOT STAKE TREES EXCEPT WHERE SPECIFIED BY LANDSCAPE ARCHITECT. STAKING IS REQUIRED FOR TREES PLANTED ON SLOPES OR AREA EXPOSED TO HIGH WINDS.
- WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" OVER THE ENTIRE AREA OR AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL, THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
- FOR FIELD GROWN TREES, CUT BURLAP, ROPE AND WIRE BASKET AWAY FROM TOP AND SIDES OF ROOT BALL.
- THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
- THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
- DO NOT WRAP TRUNK; MARK NORTH SIDE OF TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
- WIDTH OF PLANTING HOLE IS 3X ROOT BALL AT THE SURFACE, SLOPING TO 2X THE ROOT BALL DIAMETER AT THE DEPTH OF THE ROOT BALL.
- UNLESS OTHERWISE INDICATED ON THE PLANTING SOILS PLAN, BEFORE PLANTING, ADD 3-4" OF WELL COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL.
- PERFORM PERCOLATION TEST FOR EACH TREE PIT TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. PROVIDE GRAVEL SUMP FILTER FABRIC & VENT PIPE IF DRAINAGE DOES NOT OCCUR WITHIN 24 HOURS. INCLUDE ALL SUMPS IN BASE BID. SHOULD SUMPS NOT BE NECESSARY AFTER PERCOLATION TEST, PROVIDE CHANGE ORDER DEDUCT TO OWNER.
- IF PLANTING HOLES ARE DUG WITH A LARGE AUGER BREAKING DOWN THE SIDES WITH A SHOVEL, CAN ELIMINATE GLAZING AND CREATE THE PREFERRED SLOPING SIDE.
- TREES SHALL HAVE SINGLE LEADERS UNLESS OTHERWISE SPECIFIED.
- DO NOT PLACE MULCH IN CONTACT WITH TRUNK.



**STEWART**

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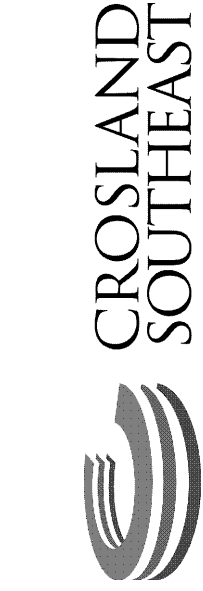


**L0.00**

Date: February 10, 2023

- Final Drawing -  
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| NO. | DATE      | REVISIONS:                                     | DESCRIPTION |
|-----|-----------|--|-------------|
| 7   | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #5 |             |
| 6   | 15-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |             |
| 5   | 15-JUL-23 | CART CORRAL DETAIL REVISED                     |             |
| 4   | 29-JUL-23 | REVISED PER REVIEW COMMENTS                    |             |
| 3   | 29-JUN-23 | REVISED PER REVIEW COMMENTS                    |             |
| 2   | 24-APR-23 | REVISED PER REVIEW COMMENTS                    |             |
| 1   | 10-FEB-23 | REVISED PER REVIEW COMMENTS                    |             |
|     |           | SHIFTED BUILDING LOCATION PER OWNER REQUEST    |             |
|     |           | SD PERMIT REVIEW SUBMITTAL #1                  |             |
|     |           | SD PERMIT REVIEW SUBMITTAL #1                  |             |

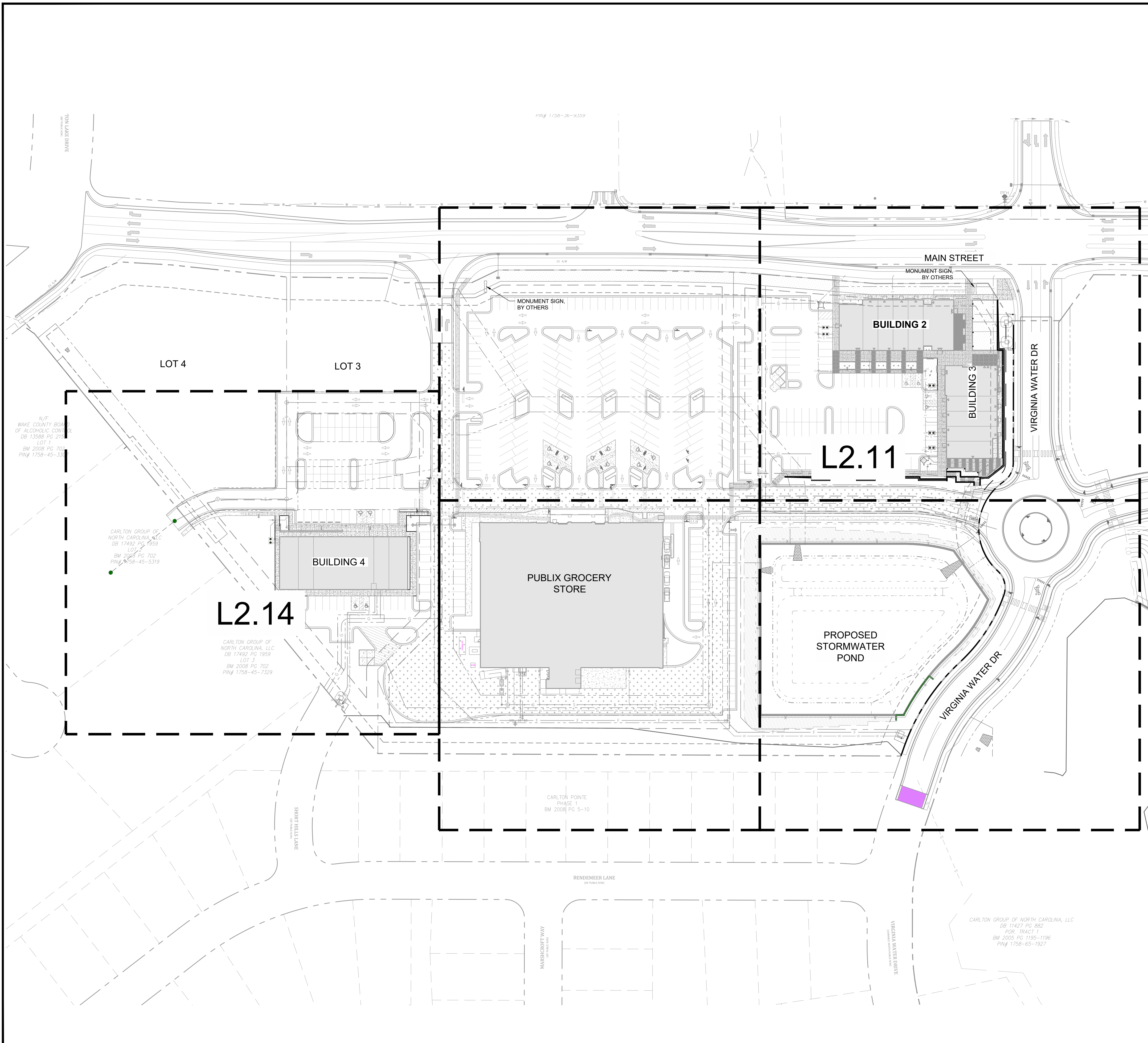


**DRAWING INDEX & GENERAL NOTES**  
**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
Rolesville, Wake County, North Carolina

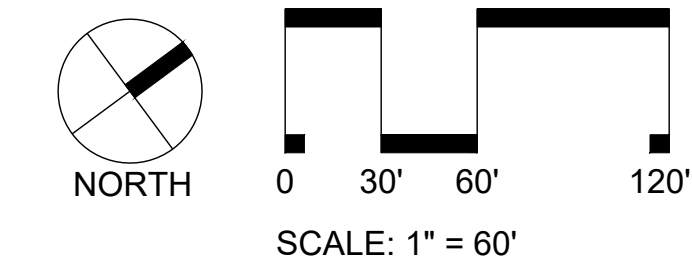
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Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:

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MONUMENT SIGNS ON THE PROJECT BY OTHERS. SHOPS TO BE REVIEWED BY LA



**- Final Drawing -**  
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| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST    |
| 2 | 24-APR-23 | SDP PERMIT REVIEW SUBMITTAL #1                 |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW COMMENTS                     |
| 4 | 29-JUL-23 | CART CORRAL DETAIL REVISED                     |
| 5 | 18-AUG-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 18-AUG-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |



**OVERALL SITE PLAN**  
**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
Rolesville, Wake County, North Carolina

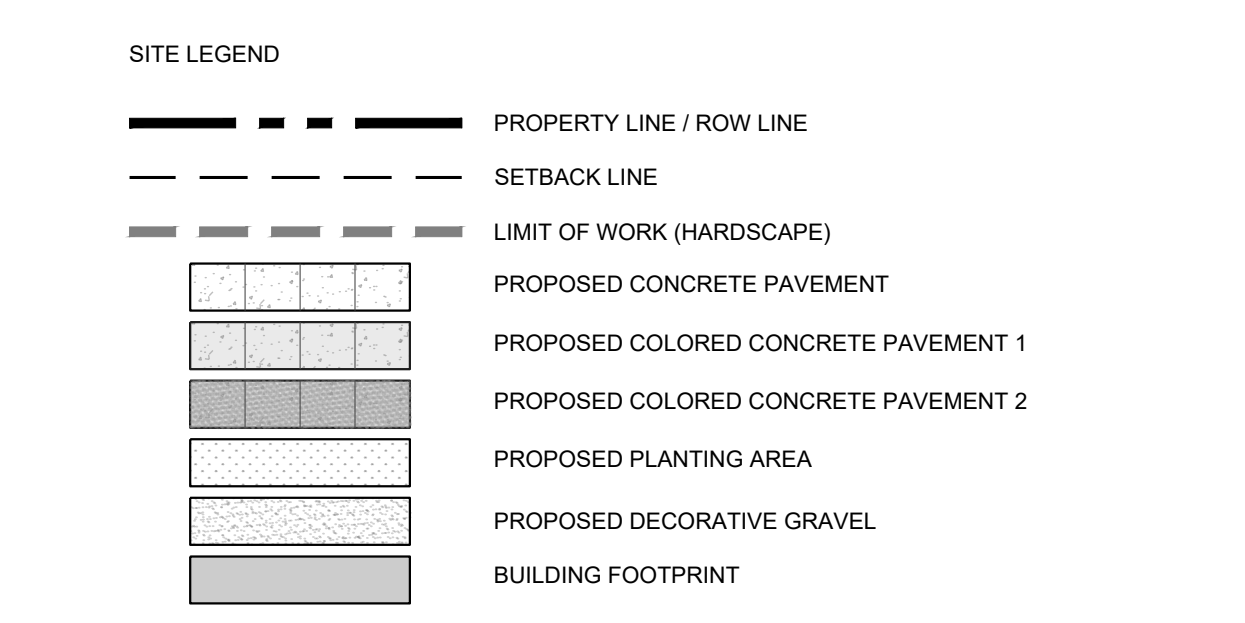
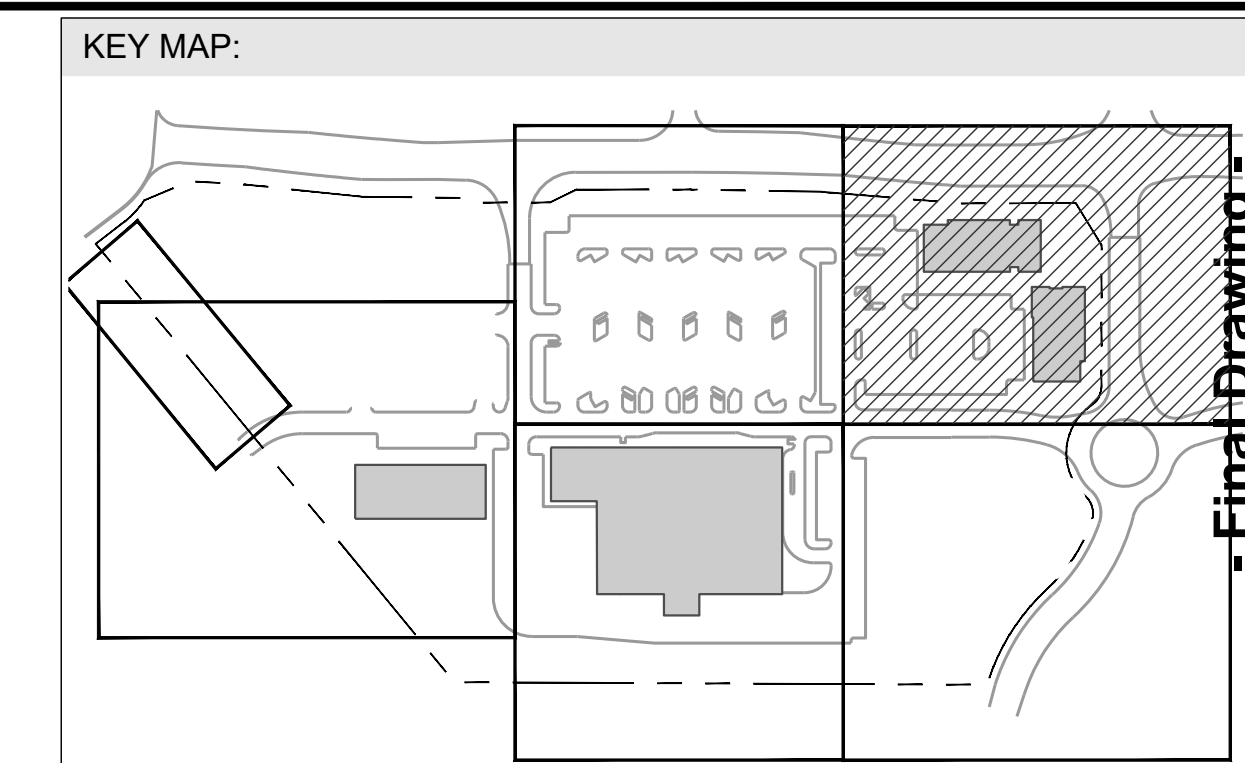
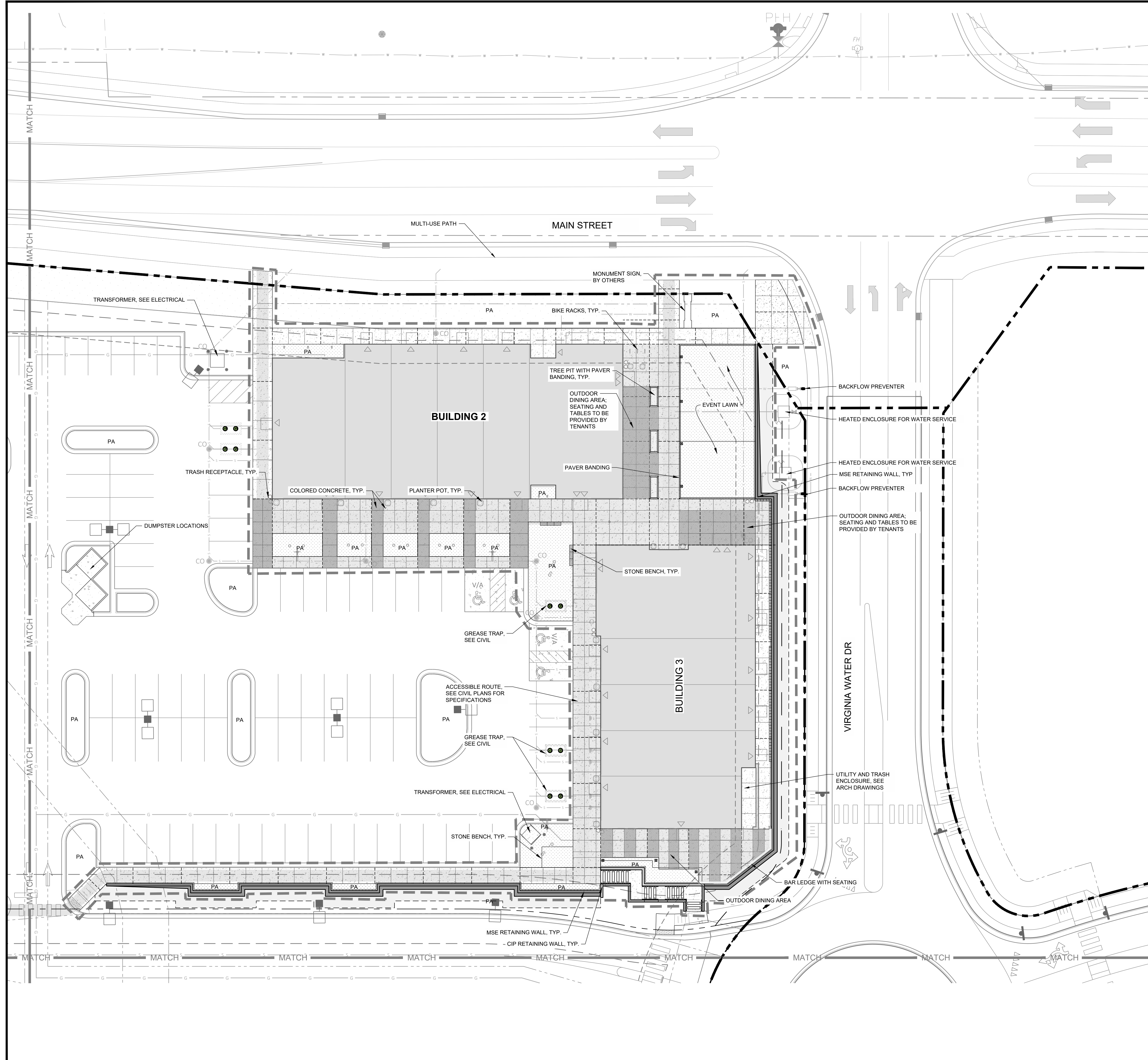
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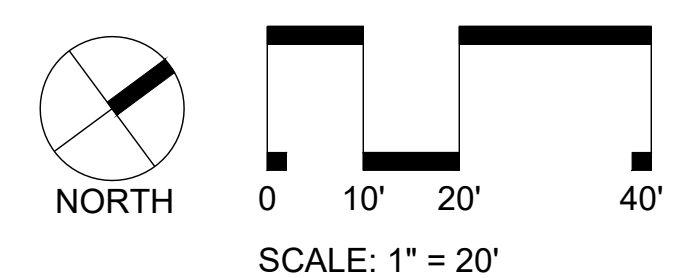
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| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L2.00**  
Date: February 10, 2023

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| # | DATE      | DESCRIPTION                                   |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST   |
| 2 | 24-APR-23 | SD PERMIT REVIEW COMMENTS                     |
| 3 | 12-JUN-23 | SD PERMIT REVIEW COMMENTS                     |
| 4 | 29-JUL-23 | REVISED PER REVIEW COMMENTS                   |
| 5 | 19-AUG-23 | CART CORRAL DETAIL REVISED                    |
| 6 | 19-AUG-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #3 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #5 |



**SITE PLAN NORTHEAST**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

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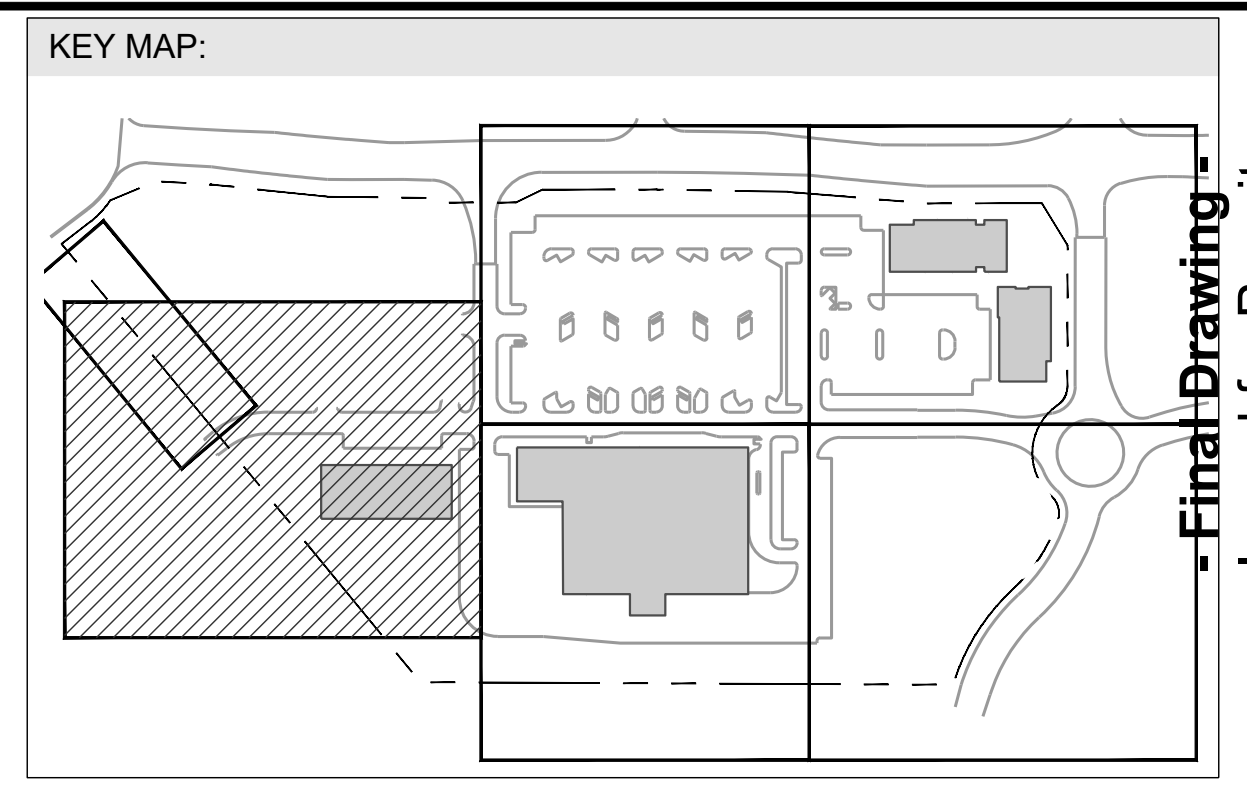
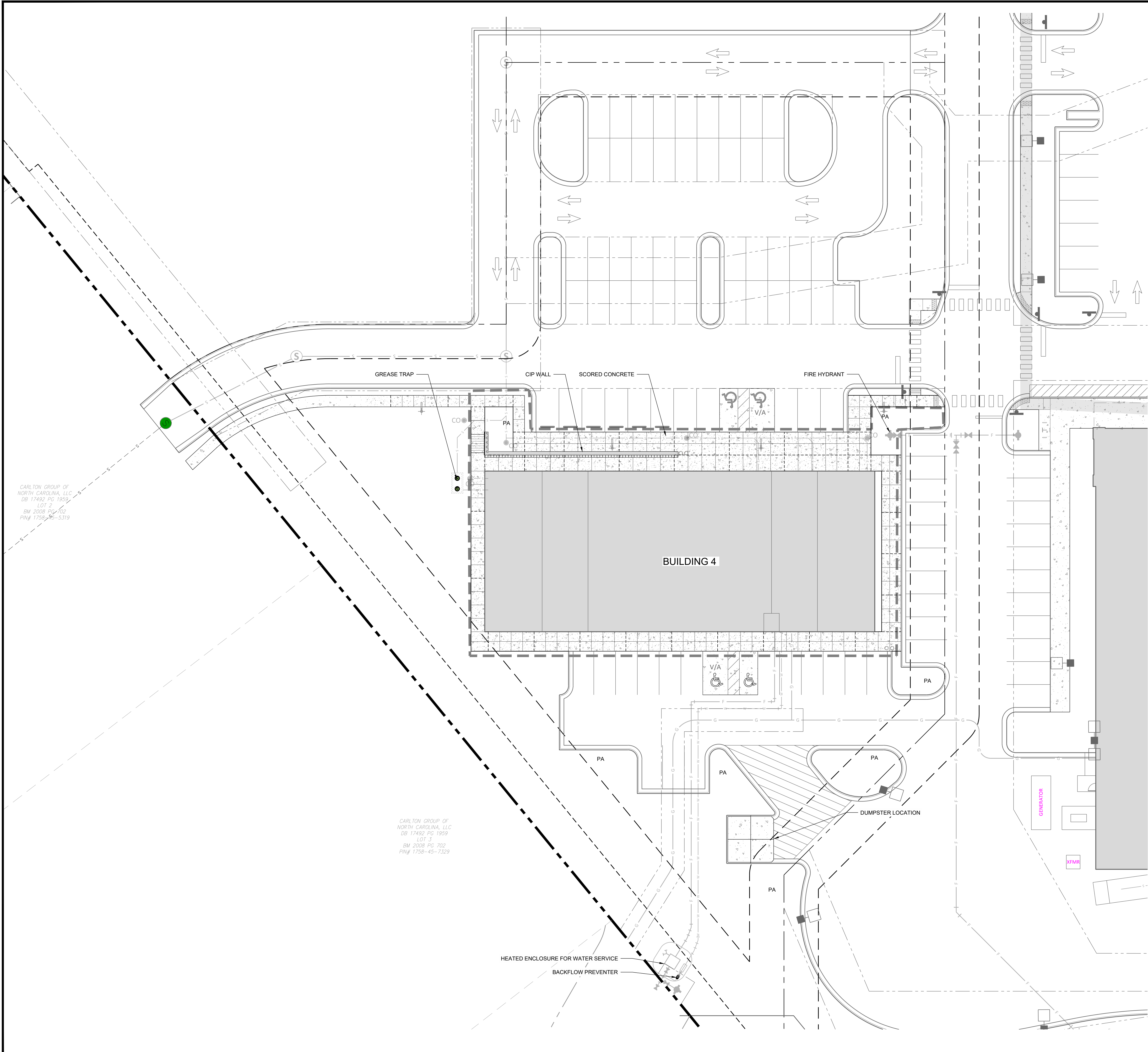
9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L2.11**

Date: February 10, 2023

C:\PROJECTS\2023\L22007 - WALLBROOK (PUBS) - C23-0-SHEETS\L22007-L2.07 SITE PLAN.NG (2.11) - See Permit, Thu, Sep 21, 2023 @ 3:28 PM



- SITE LEGEND**
- PROPERTY LINE / ROW LINE
  - SETBACK LINE
  - LIMIT OF WORK (HARDSCAPE)
  - PROPOSED CONCRETE PAVEMENT
  - PROPOSED COLORED CONCRETE PAVEMENT 1
  - PROPOSED COLORED CONCRETE PAVEMENT 2
  - PROPOSED PLANTING AREA
  - PROPOSED DECORATIVE GRAVEL
  - BUILDING FOOTPRINT

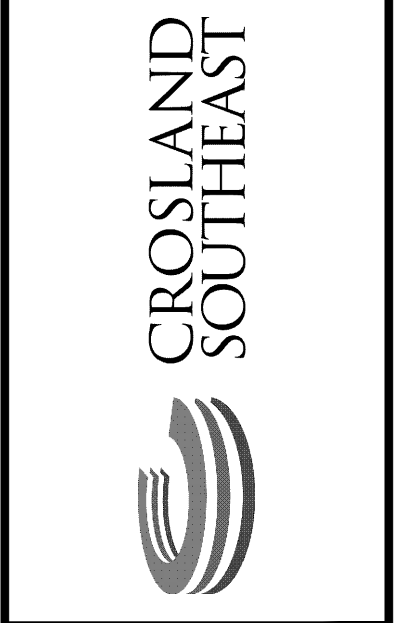
CARLTON GROUP OF NORTH CAROLINA, LLC  
DB 17492 PG 1959  
LOT 2  
BM 2008 109-702  
PIN# 1758-45-5319

CARLTON GROUP OF NORTH CAROLINA, LLC  
DB 17492 PG 1959  
LOT 3  
BM 2008 PG 702  
PIN# 1758-45-7329

**Issued for Permit**

**Review Purposes Only**

| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST    |
| 2 | 24-APR-23 | SDP PERMIT REVIEW SUBMITTAL #1                 |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW SUBMITTAL #1                 |
| 4 | 29-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 5 | 18-AUG-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 18-AUG-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |



**SITE PLAN BLDG 4**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

NC License: P-1199

**ARK CONSULTING GROUP PLLC**  
ENGINEERS & PLANNERS

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9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L2.14**

Date: February 10, 2023

C:\PROJECTS\2023\L22007 - WALLBROOK (0002) - C23-0-SHEETS\L22007-L2.07 SITE PLAN.MXD, 12.14, Sun 9/20/2023 8:38 AM

**DRAINAGE SCHEDULE**

| SYMBOL   | DESCRIPTION  | DETAIL  | MATERIAL/COLOR               | FINISH          | SIZE     | PRODUCT NAME#          | MANUFACTURER | CONTACT      |
|----------|--------------|---------|------------------------------|-----------------|----------|------------------------|--------------|--------------|
| [DR-101] | TRENCH DRAIN | 8/L3.91 | LONGITUDINAL STAINLESS STEEL | STAINLESS STEEL | 4" GRATE | K 100; STAINLESS STEEL | ACO          | 866-303-6426 |
| [DR-102] | AREA DRAIN   | 2/L3.91 | CAST IRON                    | BAKED ON OIL    | 6" DIA   | BULLEYE 6" HEEL PROOF  | IRON AGE     | 877.418.3568 |

**EDGING SCHEDULE**

| SYMBOL  | DESCRIPTION     | DETAIL  | SPEC SECTION | COLOR            | FINISH | SIZE       | PRODUCT NAME# | MANUFACTURER | CONTACT      |
|---------|-----------------|---------|--------------|------------------|--------|------------|---------------|--------------|--------------|
| [E-101] | EDGING - TYPE 1 | 7/L3.90 | 32 14 00     | NATURAL ALUMINUM | MILL   | SEE DETAIL | PERMASTRIP    | PERMALOC     | 800.356.9660 |

**MISCELLANEOUS SITE FEATURES SCHEDULE**

| SYMBOL  | DESCRIPTION  | DETAIL  | COLOR                         | FINISH   | SIZE                   | PRODUCT NAME#     | MANUFACTURER      | CONTACT  |
|---------|--|---------|-------------------------------|--|------------------------|-------------------|-------------------|--|
| [M-102] | BIKE RACK (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)        | 3/L3.91 | RED, YELLOW, GRAY             | SILVER POWDER COAT   | 3' X 23" X 32"         | KEY               | LANDSCAPE FORM    | 800.430.6209   |
| [M-103] | WIRE LATTICE STRUCTURE   | 6/L3.91 | SILVER                        | STAINLESS STEEL  | TBD                    | GREENGUIDE SYSTEM | JAKOB ROPE SYSTEM | 866.215.1421   |
| [M-104] | SAWN TOP NATURAL STONE BENCH                                   | 6/L3.90 | AUTUMN SKY (GRAY / TAN)       | SAWN TOP & ROUGH SIDES                                       | 18"D X 36" L X 18" H   | SAWN TOP BENCH    | FISCHER STONE     | 815-541-1425; CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL |
| [M-107] | TRASH RECEPTACLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR) | 9/L3.91 | DUSK; THERMALLY MODIFIED ASHE | POWDER COATED, INCLUDE THERMALLY MODIFIED WOOD ACCENT PANELS | 20"X37"X17 GAL.        | FGP LITTER        | LANDSCAPE FORMS   | 800.430.6209   |
| [M-108] | PLANTER POT (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)      | 7/L3.91 | ASH WHITE                     | SANDBLAST  | 48"H X 32"D X 17" BASE | LARKSPUR LS-48    | LANDSCAPE FORMS   | 800.430.6209   |

**PAVEMENT SCHEDULE**

| CONCRETE   |   |         |              |                              |                       |   |                                 |   |  |                   |   |
|------------|---|---------|--------------|------------------------------|-----------------------|---|---------------------------------|---|--|-------------------|---|
| SYMBOL     | DESCRIPTION   | DETAIL  | SPEC SECTION | COLOR                        | JOINT TYPE OR PATTERN | FINISH                                      | SIZE (LENGTH X WIDTH X DEPTH)   | PRODUCT NAME#   | MANUFACTURER                               | CONTACT           | NOTES   |
| [P-201]    | PEDESTRIAN CONCRETE PAVING                            | 1/L3.90 | 32 13 13     | STANDARD GRAY                | SEE PLAN              | MEDIUM BROOM                                | --                              |   |  |                   | CARBON CURE SHALL BE USED AS AN ADDITIVE. SEE SPECIFICATIONS                          |
| [P-202]    | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH | 1/L3.90 | 32 13 13     | INTEGRAL COLOR: AUTUMN BEIGE | SEE PLAN              | LIGHT BROOM FINISH                          | --                              | C235 - AUTUMN BEIGE   | SIKACOLOR (-120 G GRANULAR INTEGRAL COLOR) | SIKA 201.933.8800 | CONTRACTOR TO PROVIDE 2 ADDITIONAL COLOR SAMPLES. SEE SPECIFICATIONS FOR MOCK UP INFO |
| [P-203]    | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH | 1/L3.90 | 32 12 20     | WINTER BEIGE                 | SEE PLAN              | LIGHT BROOM FINISH                          | --                              | C16 WINTER BEIGE  | SIKACOLOR (-120 G GRANULAR INTEGRAL COLOR) | SIKA 201.933.8800 | CONTRACTOR TO PROVIDE 2 ADDITIONAL COLOR SAMPLES. SEE SPECIFICATIONS FOR MOCK UP INFO |
| UNIT PAVER |   |         |              |                              |                       |   |                                 |   |  |                   |   |
| SYMBOL     | DESCRIPTION   | DETAIL  | SPEC SECTION | COLOR                        | JOINT TYPE OR PATTERN | FINISH                                      | SIZE (LENGTH X WIDTH X DEPTH)   | PRODUCT NAME#   | MANUFACTURER                               | CONTACT           | NOTES   |
| [P-302]    | STANDARD CONCRETE PAVER BANDING                       | 2/L3.90 | 32 14 00     | M2343                        | SAILOR COURSE         | SLATEFACE                                   | 17 5/8" X 5 7/8" X 2"           | PREST PAVER   | HANOVER                                    | 800.426.4242      | CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL                          |
| STONE      |   |         |              |                              |                       |   |                                 |   |  |                   |   |
| SYMBOL     | DESCRIPTION   | DETAIL  | SPEC SECTION | COLOR                        | JOINT TYPE OR PATTERN | FINISH                                      | SIZE (LENGTH X WIDTH X DEPTH)   | PRODUCT NAME#   | MANUFACTURER                               | CONTACT           | NOTES   |
| [P-401]    | DECOMPOSED GRANITE WITH BINDER                        | 4/L3.90 | 32 12 20     | MISTY GRAY MARBLE            | NA                    | STABILIZED PATHWAY WITH ORGANIC LOCK BINDER | AGGREGATE SIZE PER MANUFACTURER | STABILIZED PATHWAY MIX: MISTY GRAY MARBLE SPECIALLY AGGREGATE | KAFKA GRANITE                              | 800-852-7415      | CONTRACTOR TO PROVIDE COLOR SAMPLE TO LA FOR REVIEW/APPROVAL                          |

**WALLS SCHEDULE**

| SYMBOL  | DESCRIPTION                       | DETAIL  | SPEC SECTION | COLOR                                     | FINISH      |
|---------|-----------------------------------|---------|--------------|---|-------------|
| [W-101] | CIP RETAINING WALL WITH GUARDRAIL | 2/L3.92 | 03 3000      | STANDARD GRAY                             | BOARD FORM  |
| [W-104] | MSE RETAINING WALL WITH GUARDRAIL | 4/L3.92 | 03 3000      | STANDARD GRAY                             |             |
| [W-105] | BAR LEDGE ON RAILING              | 3/L3.92 | 03 3000      | POWDER COAT FINISH: BLACK (MATCH FENCING) | POWDER COAT |

**RAILS SCHEDULE**

| SYMBOL  | DESCRIPTION                           | DETAIL  | SPEC SECTION | COLOR | FINISH   | SIZE       | NOTES  |
|---------|---------------------------------------|---------|--------------|-------|----------|------------|--|
| [R-101] | ALUMINUM PIPE PICKET GUARDRAIL        | 2/L3.92 | 05 73 01     | BLACK | ALUMINUM | 36" HEIGHT | CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL |
| [R-102] | ALUMINUM PIPE HANDRAIL (WALL MOUNT)   | 3/L3.94 | 05 73 01     | BLACK | ALUMINUM | 36" HEIGHT | CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL |
| [R-103] | ALUMINUM PIPE HANDRAIL (GROUND MOUNT) | 3/L3.94 | 05 73 01     | BLACK | ALUMINUM | 36" HEIGHT | CONTRACTOR TO PROVIDE SHOP DRAWING TO LA FOR REVIEW/APPROVAL |

**STEPS SCHEDULE**

| SYMBOL  | DESCRIPTION                   | DETAIL  | RISER/TREAD         | NOTES   |
|---------|-------------------------------|---------|---------------------|---|
| [S-101] | CAST IN PLACE CONCRETE STAIRS | 2/L3.94 | RISER 6", TREAD 12" | CONTRACTOR TO VERIFY RISER & TREAD RATIO AND NUMBER OF STEPS WITH ACTUAL SITE CONDITIONS PRIOR TO SITE CONSTRUCTION |

**ROCK SCHEDULE**

| SYMBOL  | DESCRIPTION       | DETAIL | COLOR               | SIZE                         |
|---------|-------------------|--------|---------------------|------------------------------|
| [K-102] | SMOOTH RIVER ROCK |        | GRAY TO BROWN BLEND | 2"-5" DIAMETER; SMOOTH STONE |

**SITE FURNISHINGS SCHEDULE**

| BENCHES |  |     |        |        |             |                 |                     |                 |                         |
|---------|--|-----|--------|--------|-------------|-----------------|---------------------|-----------------|-------------------------|
| SYMBOL  | DESCRIPTION  | QTY | DETAIL | COLOR  | FINISH      | SIZE            | PRODUCT NAME#       | MANUFACTURER    | CONTACT                 |
| [F-101] | TABLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)        |     |        | DUSK   | POWDER COAT | 36" SQUARE      | CATENA TABLE SQUARE | LANDSCAPE FORMS | LORI BROWN 269-337-1310 |
| [F-102] | CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)        |     |        | DUSK   | POWDER COAT | 30" HEIGHT      | CATENA CHAIR        | LANDSCAPE FORMS | LORI BROWN 269-337-1310 |
| [F-103] | LOUNGE CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR) |     |        | ORANGE | POWDER COAT | WITH ARMS; 33"H | PARC CENTRE LOUNGE  | LANDSCAPE FORMS | LORI BROWN 269-337-1310 |

- Final Drawing -  
Issued for Permit

Review Purposes Only

| # | DATE      | REVISIONS:                                     |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST    |
| 2 | 24-APR-23 | SDP PERMIT REVIEW COMMENTS                     |
| 3 | 25-JUN-23 | REVISED PER REVIEW COMMENTS                    |
| 4 | 25-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 5 | 18-JUL-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 18-JUL-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |
| 7 | 25-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #5 |



**MATERIAL & FURNISHING SCHEDULE**  
**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
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Charlotte, NC 28205  
(754) 558-0888  
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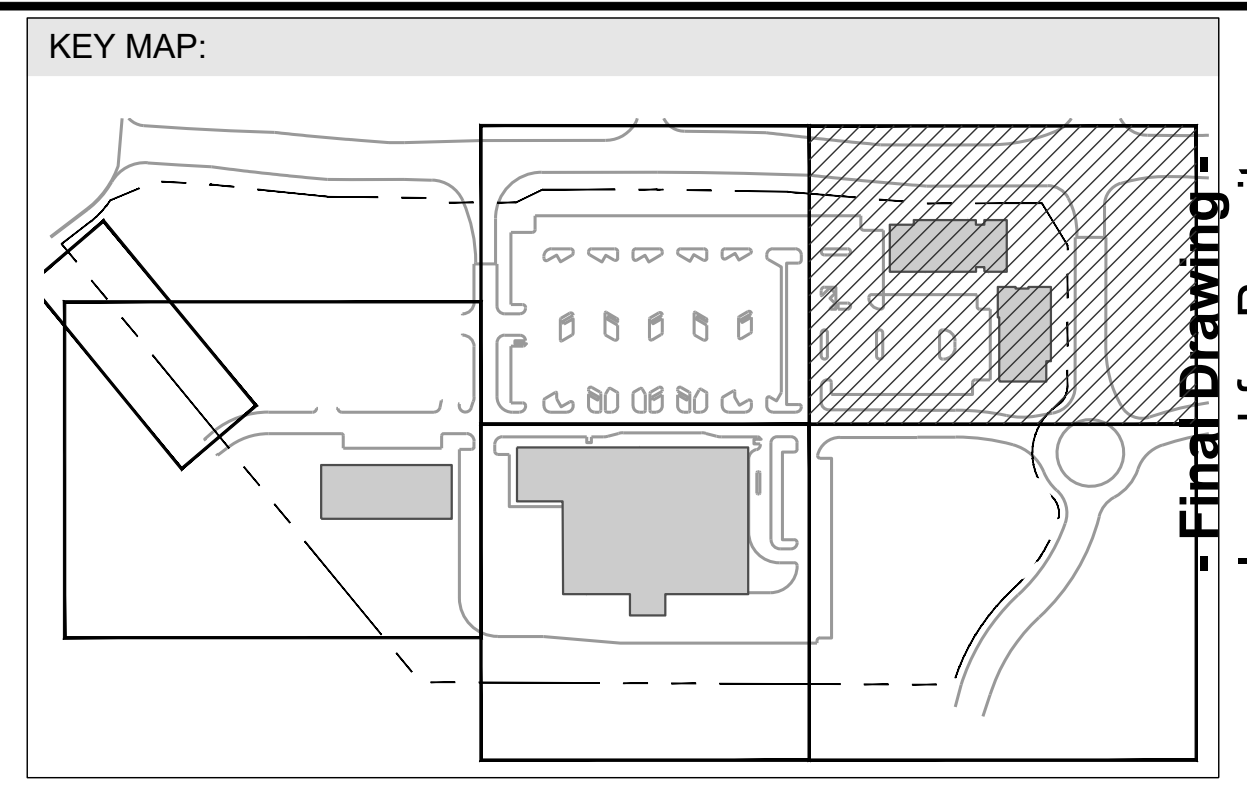
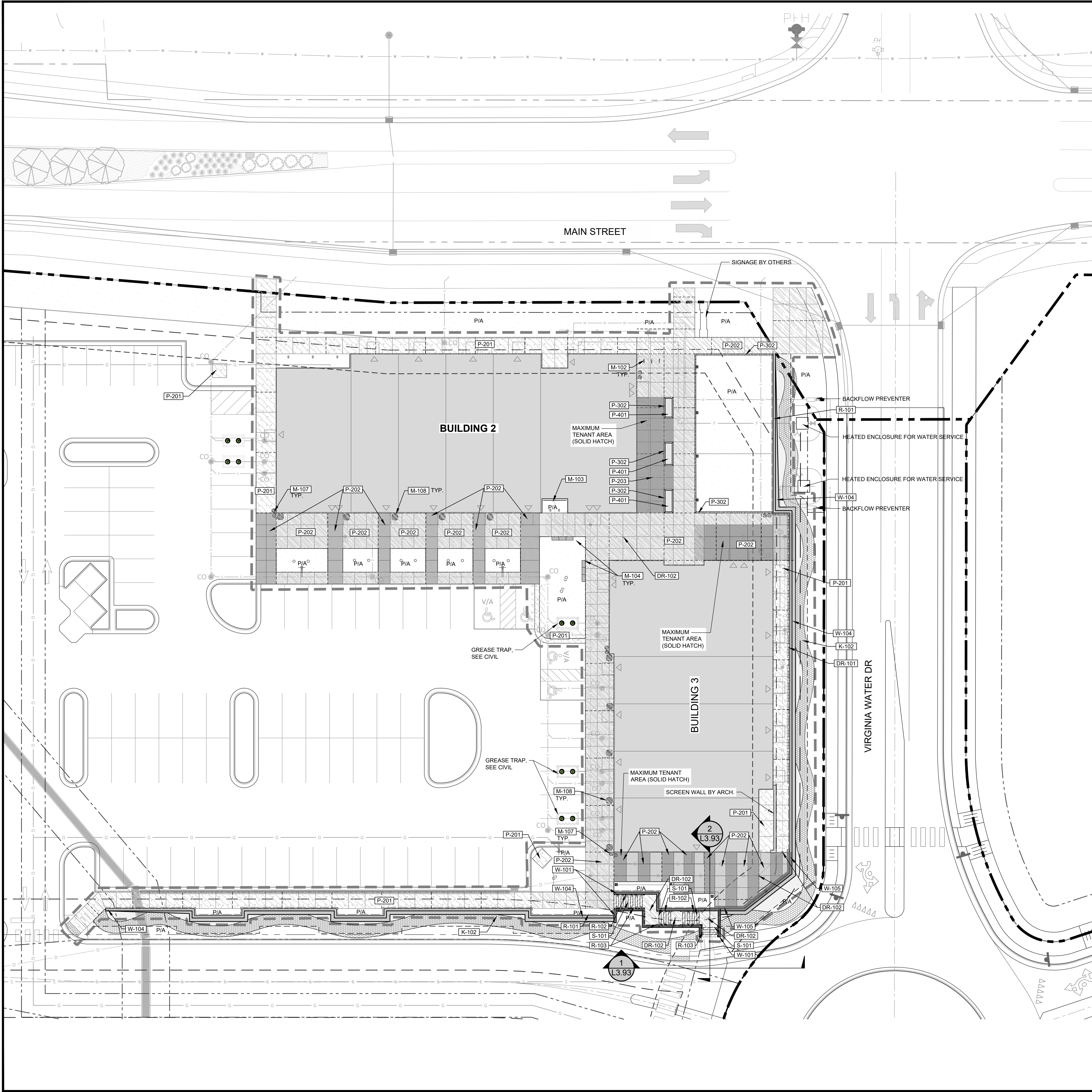
9/20/2023

Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:

**L3.10**

Date: February 10, 2023

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**REVISIONS:**

| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST    |
| 2 | 24-APR-23 | REVISED PER REVIEW COMMENTS                    |
| 3 | 12-JUN-23 | REVISED PER REVIEW COMMENTS                    |
| 4 | 29-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 5 | 18-JUL-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 18-JUL-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |



**MATERIAL & FURNISHING PLAN NE**  
**PUBLIX AT WALLBROOK**  
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 Rolesville, Wake County, North Carolina

NC License: P-1159  
**ARK CONSULTING GROUP PLLC**  
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 Cary, NC 27513  
 (757) 558-0888  
 www.arkconsultinggroup.com

9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L3.11**  
 Date: February 10, 2023

**SITE LEGEND**

|  |                                |
|--|--------------------------------|
|  | PROPERTY LINE / ROW LINE       |
|  | SETBACK LINE                   |
|  | LIMIT OF WORK (HARDSCAPE)      |
|  | PROPOSED CONCRETE PAVEMENT     |
|  | PROPOSED COLORED CONCRETE PAVI |
|  | PROPOSED PLANTING AREA         |
|  | PROPOSED DECORATIVE GRAVEL     |
|  | BUILDING FOOTPRINT             |

**REFERENCE NOTES SCHEDULE**

| SYMBOL | DESCRIPTION  | DETAIL |
|--------|--|--------|
| DR-101 | TRENCH DRAIN   | 8L3.91 |
| DR-102 | AREA DRAIN   | 2L3.91 |
| F-101  | TABLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)            |        |
| F-102  | CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)            |        |
| F-103  | LOUNGE CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)     |        |
| K-102  | SMOOTH RIVER ROCK  |        |
| L-115  | SQUARE ALUMINUM POLE   | 7L9.91 |
| M-102  | BIKE RACK (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)        | 3L3.91 |
| M-103  | WIRE LATTICE STRUCTURE   | 6L3.91 |
| M-104  | SAWN TOP NATURAL STONE BENCH                                   | 6L3.90 |
| M-107  | TRASH RECEPTACLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR) | 9L3.91 |
| M-108  | PLANTER POT (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)      | 7L3.91 |
| P-201  | PEDESTRIAN CONCRETE PAVING                                     | 1L3.90 |
| P-202  | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH          | 1L3.90 |
| P-203  | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH          | 1L3.90 |
| P-302  | STANDARD CONCRETE PAVER BANDING                                | 2L3.90 |
| R-101  | ALUMINUM PIPE PICKET GUARDRAIL                                 | 2L3.92 |
| R-102  | ALUMINUM PIPE HANDRAIL (WALL MOUNT)                            | 3L3.94 |
| R-103  | ALUMINUM PIPE HANDRAIL (GROUND MOUNT)                          | 3L3.94 |
| S-101  | CAST IN PLACE CONCRETE STAIRS                                  | 2L3.94 |
| W-101  | CIP RETAINING WALL WITH GUARDRAIL                              | 2L3.92 |
| W-102  | MSE RETAINING WALL WITH GUARDRAIL                              | 4L3.92 |
| W-105  | BAR LEDGE ON RAILING   | 3L3.92 |

**CONCRETE FEATURES**

| SYMBOL | DESCRIPTION   | DETAIL |
|--------|---|--------|
| P-201  | PEDESTRIAN CONCRETE PAVING                            | 1L3.90 |
| P-202  | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH | 1L3.90 |
| P-203  | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH | 1L3.90 |

**UNIT PAVER**

| SYMBOL | DESCRIPTION                     | DETAIL |
|--------|---------------------------------|--------|
| P-302  | STANDARD CONCRETE PAVER BANDING | 2L3.90 |

**STONE**

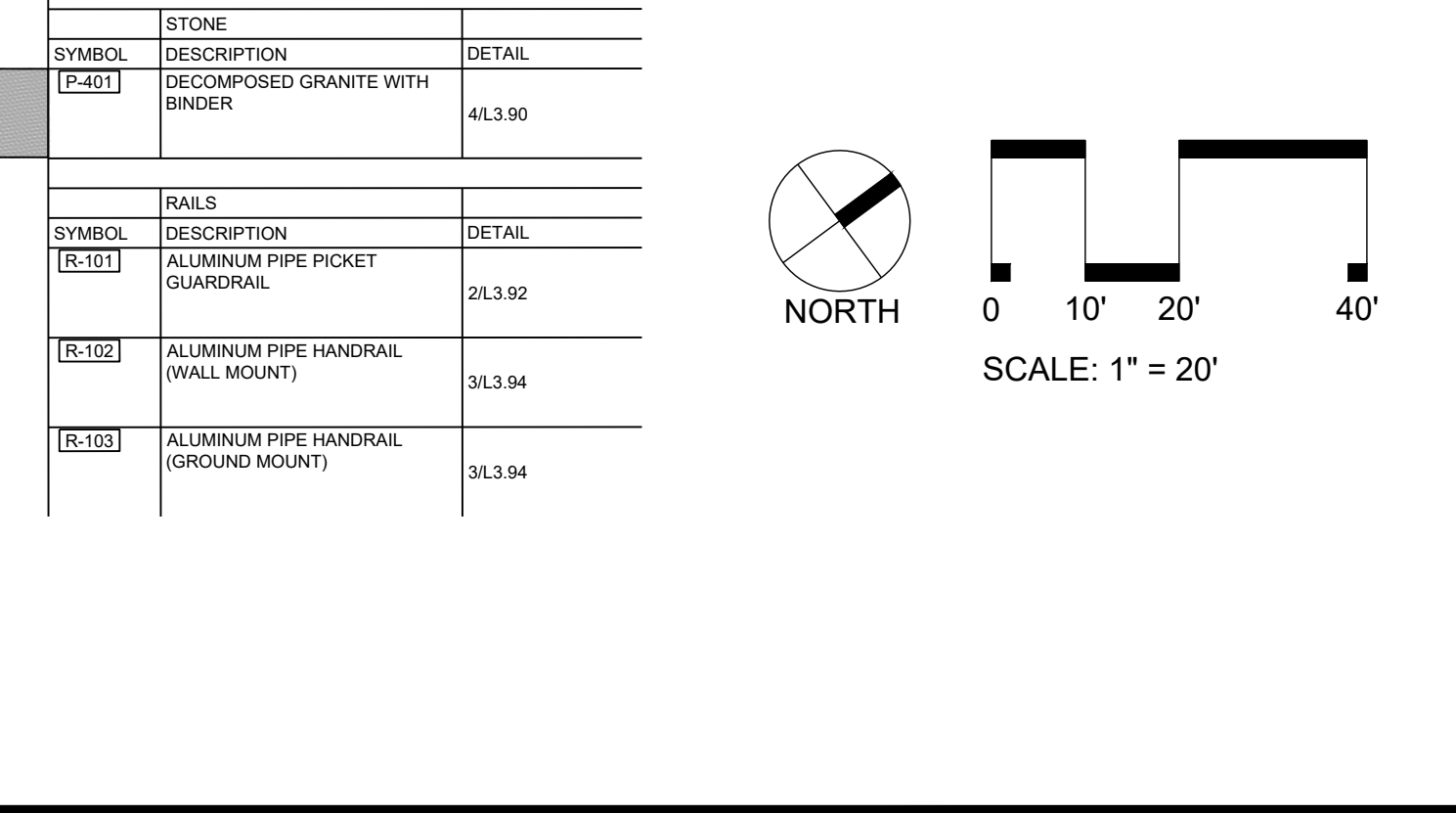
| SYMBOL | DESCRIPTION                    | DETAIL |
|--------|--------------------------------|--------|
| P-401  | DECOMPOSED GRANITE WITH BINDER | 4L3.90 |

**RAILS**

| SYMBOL | DESCRIPTION                           | DETAIL |
|--------|---------------------------------------|--------|
| R-101  | ALUMINUM PIPE PICKET GUARDRAIL        | 2L3.92 |
| R-102  | ALUMINUM PIPE HANDRAIL (WALL MOUNT)   | 3L3.94 |
| R-103  | ALUMINUM PIPE HANDRAIL (GROUND MOUNT) | 3L3.94 |

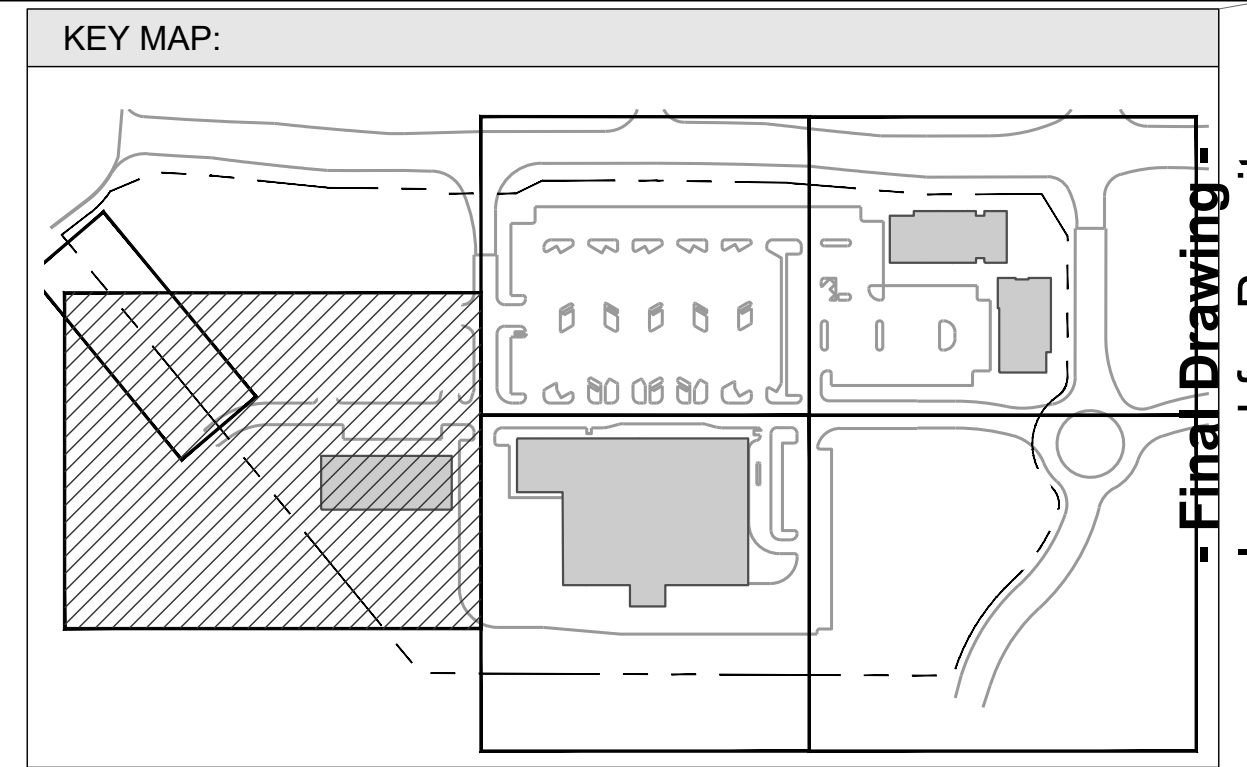
**NOTE:**

- TENANT FURNISHING BY OTHERS, AND NOT INCLUDED IN CONTRACTOR SCOPE
- PUBLIC FURNISHINGS (TABLE, CHAIRS, LOUNGE CHAIRS, TRASH RECEPTACLES, BIKE RACKS, AND PLANTERS) TO BE PURCHASED BY OWNER, AND INSTALLED BY CONTRACTOR
- PROCUREMENT OF AND INSTALLATION OF STRING LIGHTS ARE BY TENANT & OWNER AGREEMENT, AND NOT INCLUDED IN CONTRACTOR SCOPE.
- SQUARE POLES FOR STRING LIGHTS AND ELECTRICAL CONDUIT TO POLES ARE TO BE PURCHASED BY OWNER, INSTALLED BY CONTRACTOR. (SEE LIGHTING PLAN AND SITE DETAILS).
- SEE LIGHTING PLAN FOR ALL LIGHTING PRODUCT INFORMATION. LIGHTING TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
- MONUMENT SIGNS ON THE PROJECT DESIGNED BY OTHERS. SHOP DRAWINGS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF MONUMENT SIGNS.



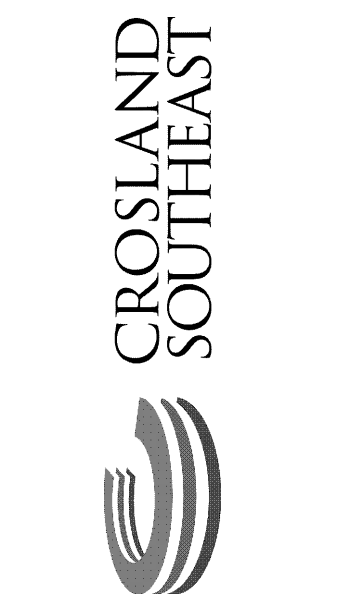
LOT 4

LOT 3



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 Review Purposes Only

| # | DATE      | DESCRIPTION       |
|---|-----------|-------------------|
| 1 | 10-FEB-23 | ISSUED FOR PERMIT |
| 2 | 24-APR-23 | REVISIONS         |
| 3 | 12-JUN-23 | REVISIONS         |
| 4 | 29-JUL-23 | REVISIONS         |
| 5 | 18-AUG-23 | REVISIONS         |
| 6 | 15-SEP-23 | REVISIONS         |
| 7 | 20-SEP-23 | REVISIONS         |



**MATERIAL & FURNISHING PLAN BLDG 4**  
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NC License: P-1129  
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9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L3.13**

Date: February 10, 2023

**SITE LEGEND**

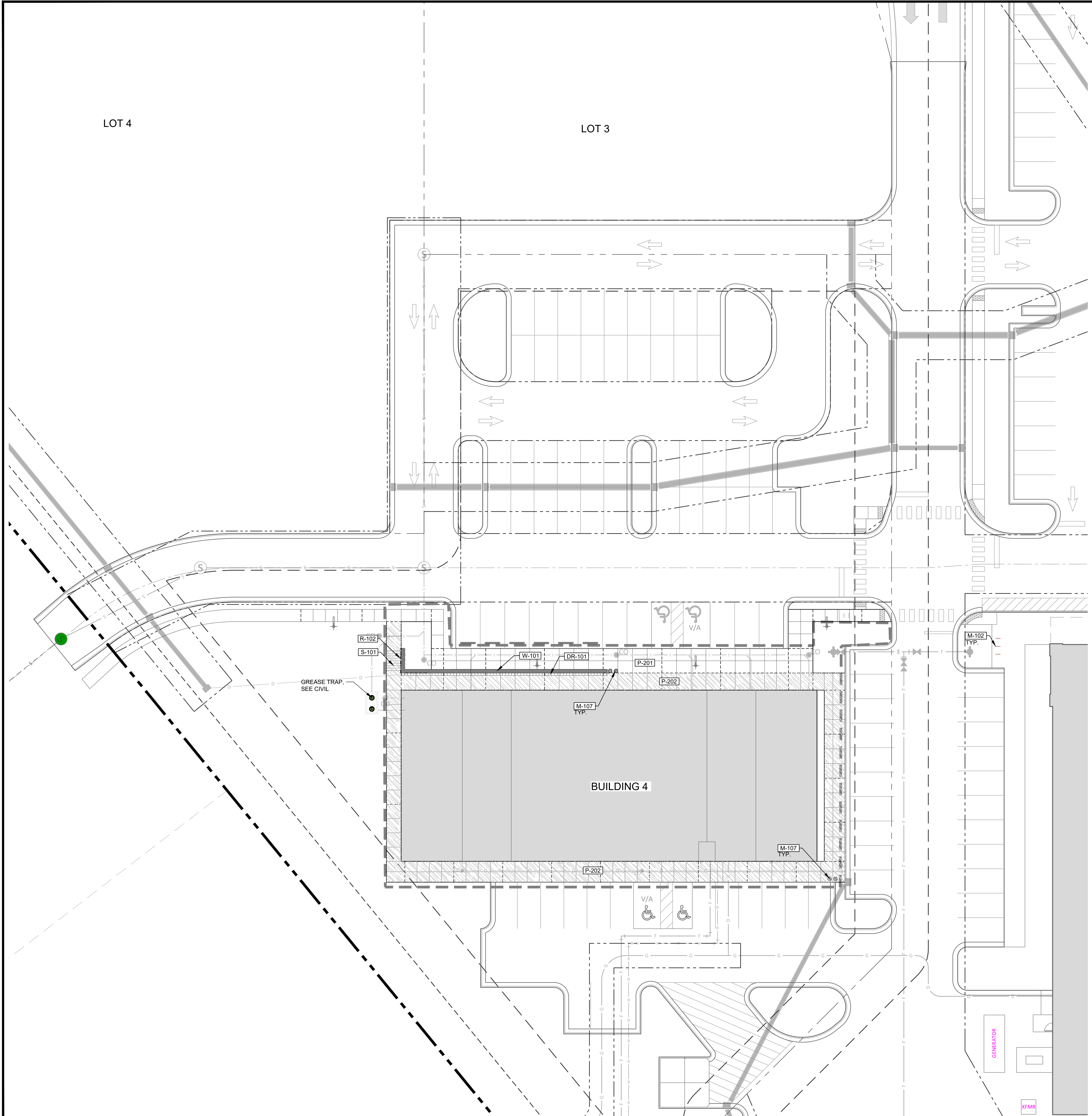
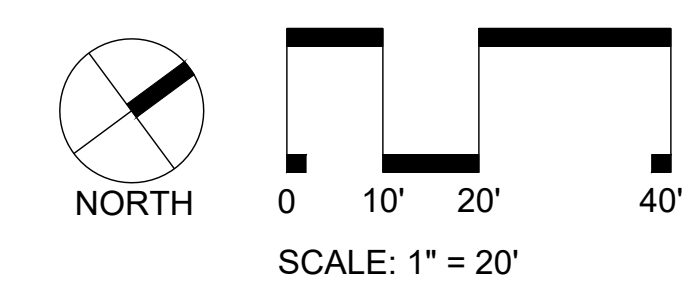
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|  | PROPERTY LINE / ROW LINE       |
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|  | PROPOSED CONCRETE PAVEMENT     |
|  | PROPOSED COLORED CONCRETE PAVI |
|  | PROPOSED PLANTING AREA         |
|  | PROPOSED DECORATIVE GRAVEL     |
|  | BUILDING FOOTPRINT             |

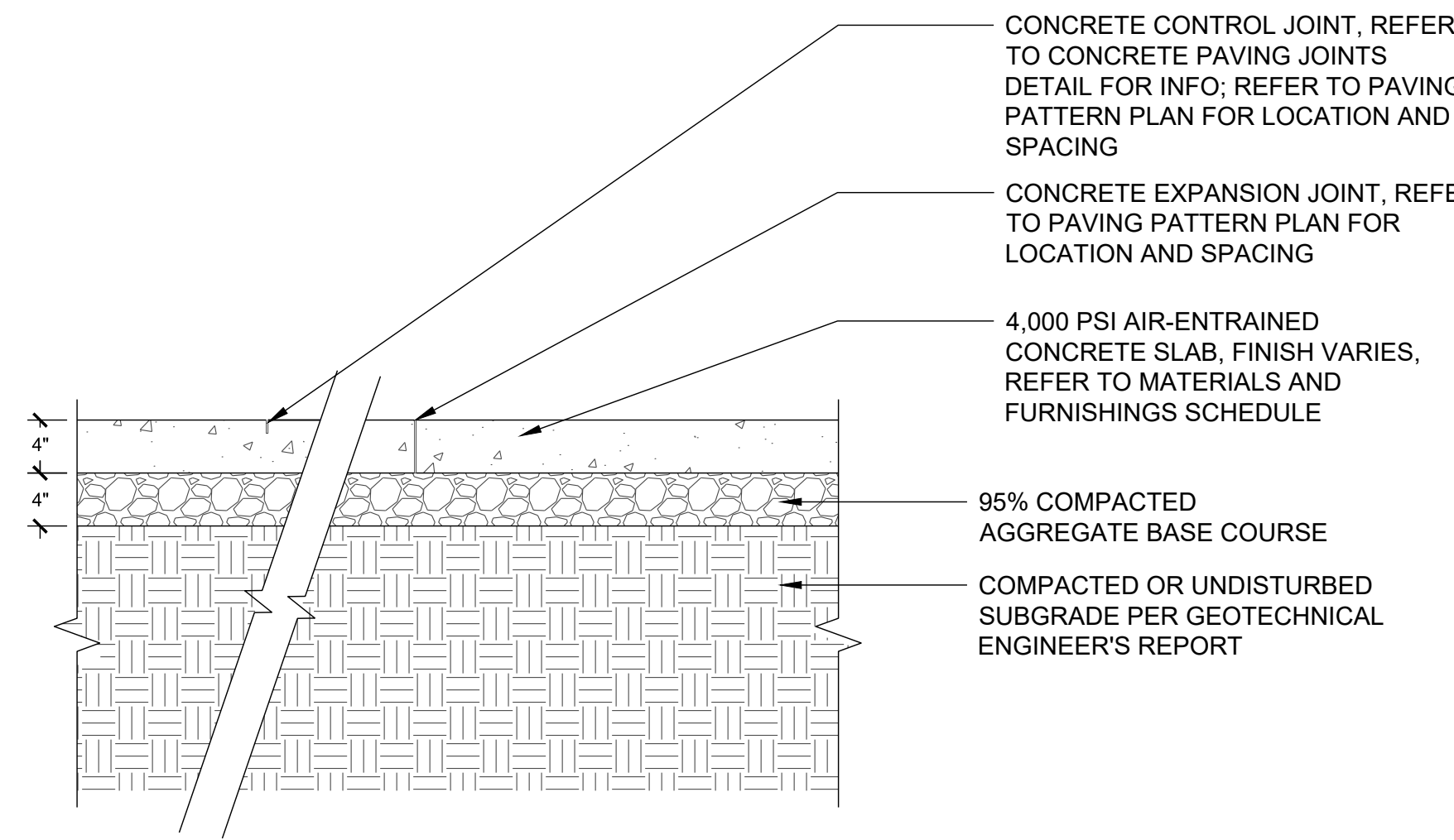
**REFERENCE NOTES SCHEDULE**

| SYMBOL                             | DESCRIPTION  | DETAIL |
|------------------------------------|--|--------|
| <b>DRAINAGE</b>                    |  |        |
| [DR-101]                           | TRENCH DRAIN   | 8L3.91 |
| [DR-102]                           | AREA DRAIN   | 2L3.91 |
| <b>BENCHES</b>                     |  |        |
| [F-101]                            | TABLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)            |        |
| [F-102]                            | CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)            |        |
| [F-103]                            | LOUNGE CHAIR (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)     |        |
| <b>ROCK</b>                        |  |        |
| [K-102]                            | SMOOTH RIVER ROCK  |        |
| <b>LIGHTING</b>                    |  |        |
| [L-115]                            | SQUARE ALUMINUM POLE   | 7L9.91 |
| <b>MISCELLANEOUS SITE FEATURES</b> |  |        |
| [M-102]                            | BIKE RACK (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)        | 3L3.91 |
| [M-103]                            | WIRE LATTICE STRUCTURE   | 6L3.91 |
| [M-104]                            | SAWN TOP NATURAL STONE BENCH                                   | 6L3.90 |
| [M-107]                            | TRASH RECEPTACLE (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR) | 9L3.91 |
| [M-108]                            | PLANTER POT (PURCHASED BY OWNER, INSTALLED BY CONTRACTOR)      | 7L3.91 |
| <b>CONCRETE</b>                    |  |        |
| [P-201]                            | PEDESTRIAN CONCRETE PAVING                                     | 1L3.90 |
| [P-202]                            | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH          | 1L3.90 |
| [P-203]                            | PEDESTRIAN CONCRETE PAVING WITH INTEGRAL COLOR FINISH          | 1L3.90 |
| <b>UNIT PAVER</b>                  |  |        |
| [P-302]                            | STANDARD CONCRETE PAVER BANDING                                | 2L3.90 |
| <b>STONE</b>                       |  |        |
| [P-401]                            | DECOMPOSED GRANITE WITH BINDER                                 | 4L3.90 |
| <b>RAILS</b>                       |  |        |
| [R-101]                            | ALUMINUM PIPE PICKET GUARDRAIL                                 | 2L3.92 |
| [R-102]                            | ALUMINUM PIPE HANDRAIL (WALL MOUNT)                            | 3L3.94 |
| [R-103]                            | ALUMINUM PIPE HANDRAIL (GROUND MOUNT)                          | 3L3.94 |

| SYMBOL       | DESCRIPTION                       | DETAIL |
|--------------|-----------------------------------|--------|
| [S-101]      | CAST IN PLACE CONCRETE STAIRS     | 2L3.94 |
| <b>WALLS</b> |                                   |        |
| [W-101]      | CIP RETAINING WALL WITH GUARDRAIL | 2L3.92 |
| [W-102]      | MSE RETAINING WALL WITH GUARDRAIL | 4L3.92 |
| [W-105]      | BAR LEDGE ON RAILING              | 3L3.92 |

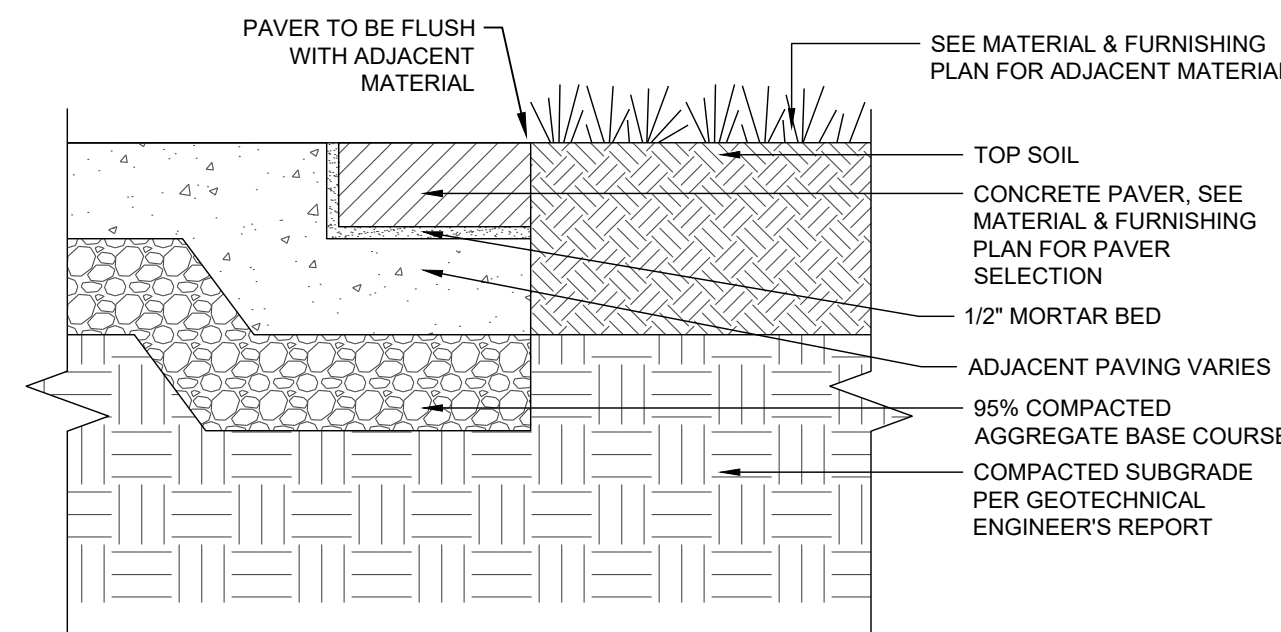
- NOTE:**
- TENANT FURNISHING BY OTHERS, AND NOT INCLUDED IN CONTRACTOR SCOPE.
  - PUBLIC FURNISHINGS (TABLE, CHAIRS, LOUNGE CHAIRS, TRASH RECEPTACLES, BIKE RACKS, AND PLANTERS) TO BE PURCHASED BY OWNER, AND INSTALLED BY CONTRACTOR.
  - PROCUREMENT OF AND INSTALLATION OF STRING LIGHTS ARE BY TENANT & OWNER AGREEMENT, AND NOT INCLUDED IN CONTRACTOR SCOPE.
  - SQUARE POLES FOR STRING LIGHTS AND ELECTRICAL CONDUIT TO POLES ARE TO BE PURCHASED BY OWNER, INSTALLED BY CONTRACTOR. (SEE LIGHTING PLAN AND SITE DETAILS).
  - SEE LIGHTING PLAN FOR ALL LIGHTING PRODUCT INFORMATION. LIGHTING TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR.
  - MONUMENT SIGNS ON THE PROJECT DESIGNED BY OTHERS. SHOP DRAWINGS TO BE REVIEWED AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF MONUMENT SIGNS.





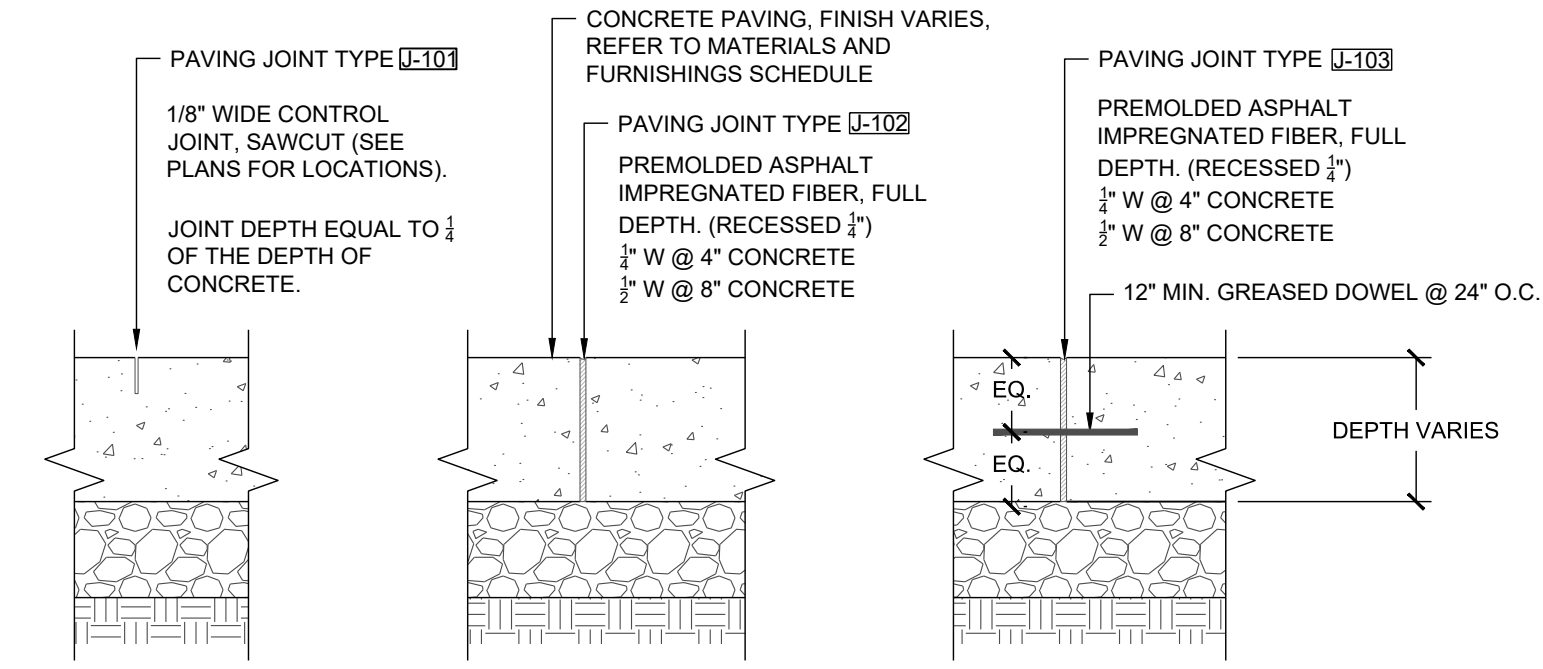
1 PEDESTRAIN CONCRETE PAVING

1" = 1'-0"



2 CONCRETE PAVER BANDING

1 1/2" = 1'-0"

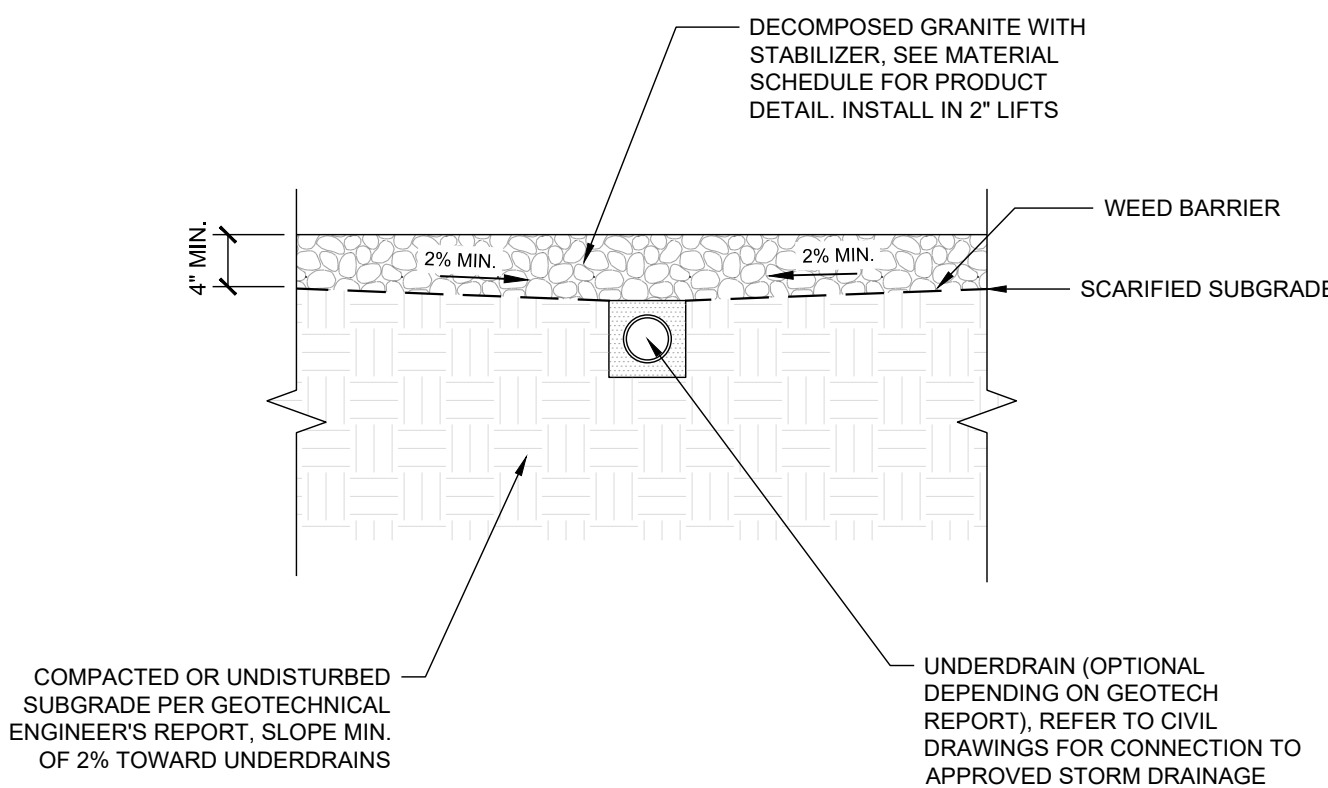


NOTES:

- REFER TO PAVING PLAN FOR LAYOUT AND SPACING OF JOINTS.
- EXPANSION JOINTS SHALL OCCUR AT ALL AREAS WHERE PAVEMENT MEETS WALLS / VERTICAL SURFACE AND AT ALL COLD JOINTS.

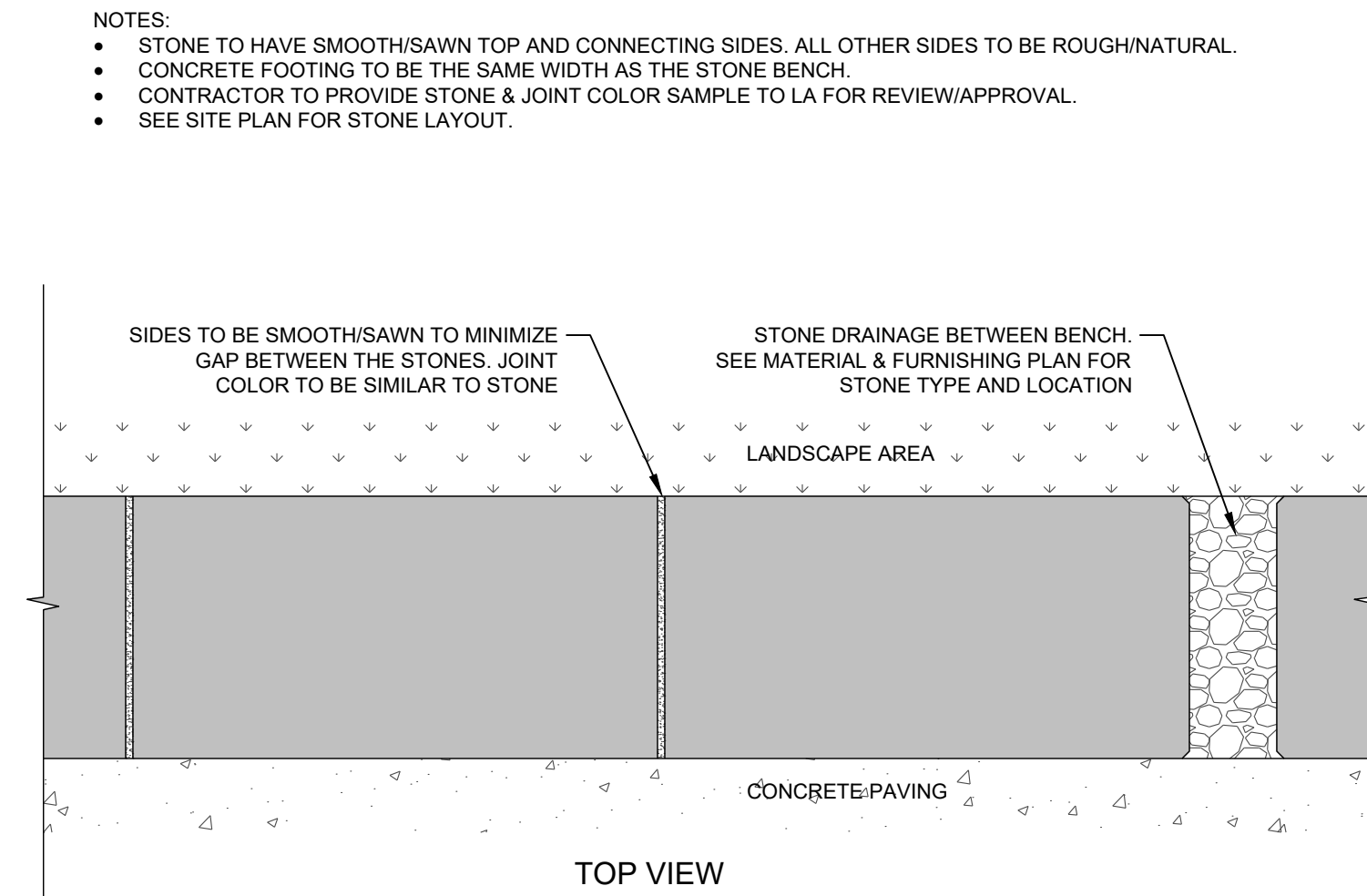
3 CONCRETE PAVING JOINTS

1 1/2" = 1'-0"



4 DECOMPOSED GRANITE WITH STABILIZER

3/4" = 1'-0"



6 CUT STONE BENCH

1" = 1'-0"

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FAX: (616) 369-8770  
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SELECT DESIRED SIZE:

- 1 1/2" x 3 1/2" (3.2 MM x 8.9 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP
- 3 1/2" x 3 1/2" (8.9 MM x 8.9 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP
- 1 1/2" x 4" (3.8 MM x 10.2 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP
- 3 1/2" x 4" (8.9 MM x 10.2 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP
- 1 1/2" x 4" (3.8 MM x 10.2 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP
- 3 1/2" x 4" (8.9 MM x 10.2 MM) 5.00' (1.52 MM) THICK WITH 1/2" (6.35 MM) EXPOSED TOP LP

SELECT DESIRED FINISH:

- MF: MFL FINISH MATERIAL ALUMINUM
- BL: BLACK POLYURETHANE ELECTROSTATICALLY APPLIED BASE ON PAINT, MEETS ANMA 2003

NOTES:

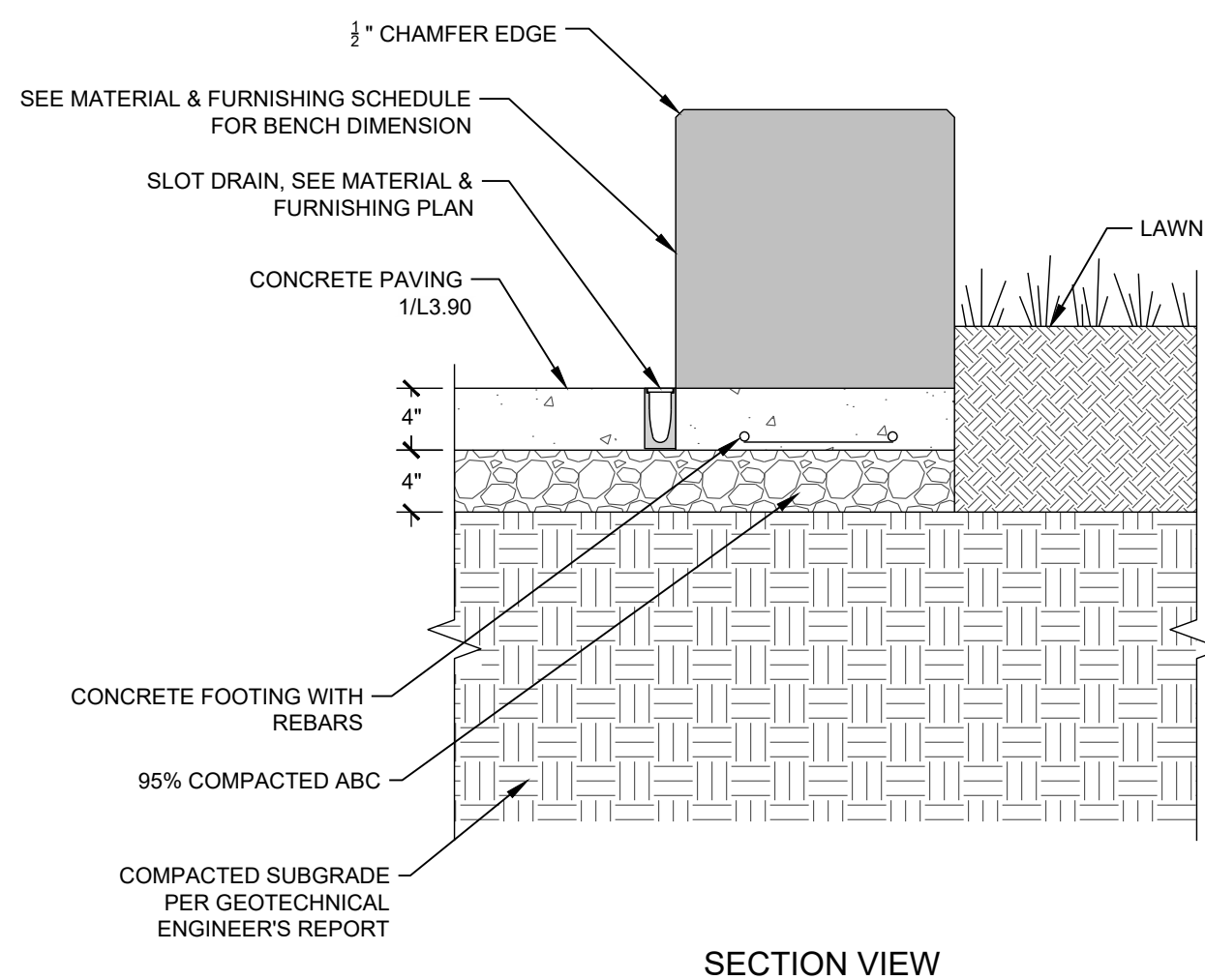
- SEE ALL PER MANUFACTURER'S INSTALLATION GUIDELINES
- 8" (203 MM) SECTIONS TO INCLUDE 10" (254 MM) ALUMINUM STAKES
- MF OF 8" (203 MM) SECTIONS TO INCLUDE 10" (254 MM) ALUMINUM STAKES
- CORNER: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER
- PERMALOC PERMASTRIP AS MANUFACTURED BY PERMALOC CORPORATION
- DO NOT SCALE DRAWING
- THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PERMALOC PRODUCTS ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
- ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/ark](http://www.CADdetails.com/ark) AND ENTER REFERENCE NUMBER 80046

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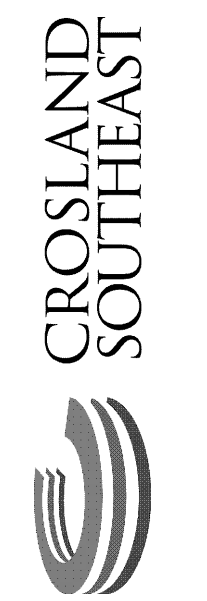
7 EDGING TYPE 1

1" = 1"



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| # | DATE      | DESCRIPTION   |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIFED BUILDING LOCATION PER OWNER REQUEST          |
| 2 | 10-FEB-23 | ADJUTMENT PERMIT REVIEW COMMENTS                    |
| 3 | 12-JUN-23 | ADJUTMENT PERMIT REVIEW COMMENTS                    |
| 4 | 12-JUN-23 | ADJUTMENT PERMIT REVIEW COMMENTS                    |
| 5 | 18-JUL-23 | CART CORRAL DETAIL REVISED                          |
| 6 | 18-JUL-23 | ADJUTMENT PERMIT REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 18-SEP-23 | ADJUTMENT PERMIT REVIEW COMMENTS - SDP SUBMITTAL #3 |



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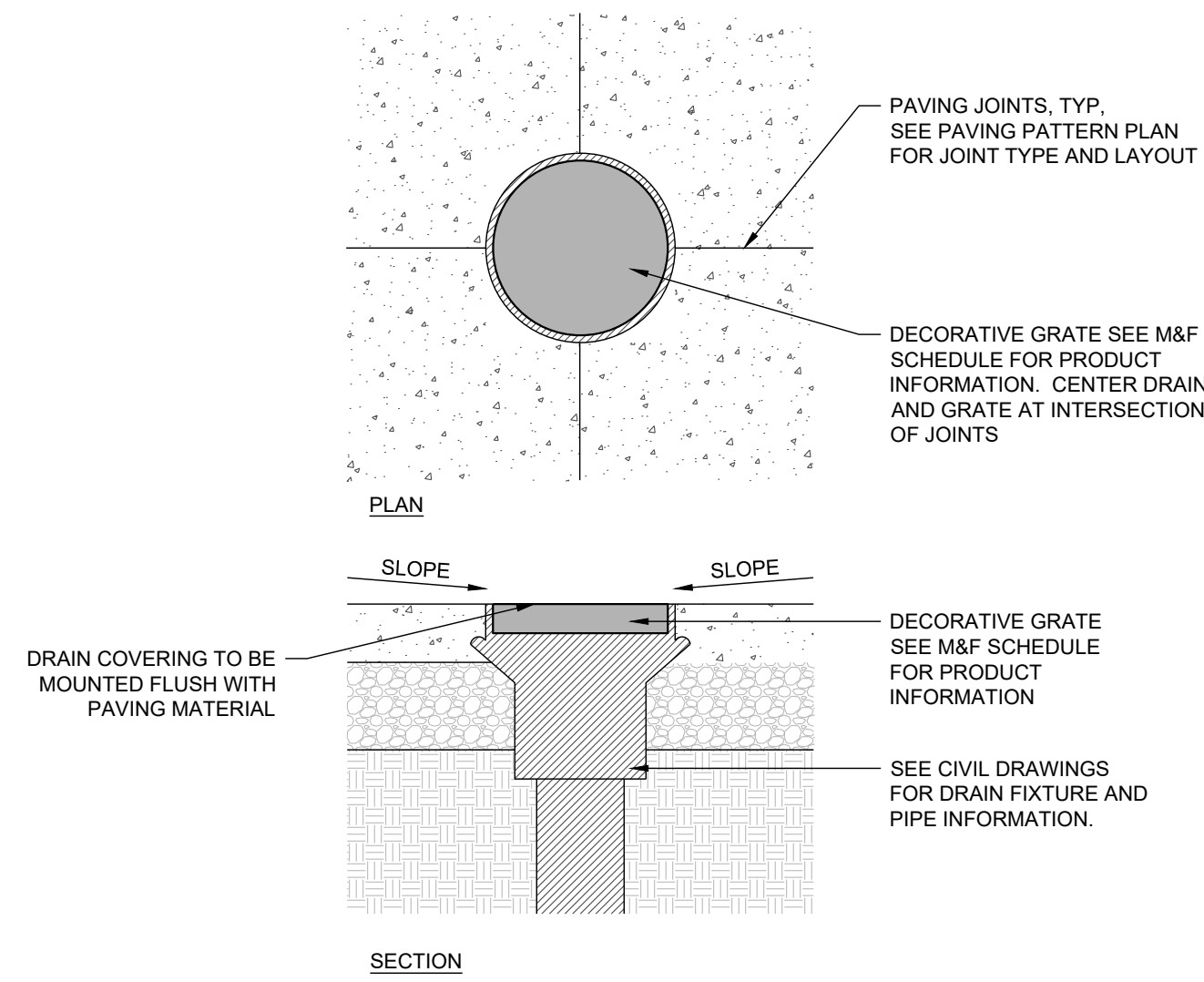
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| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

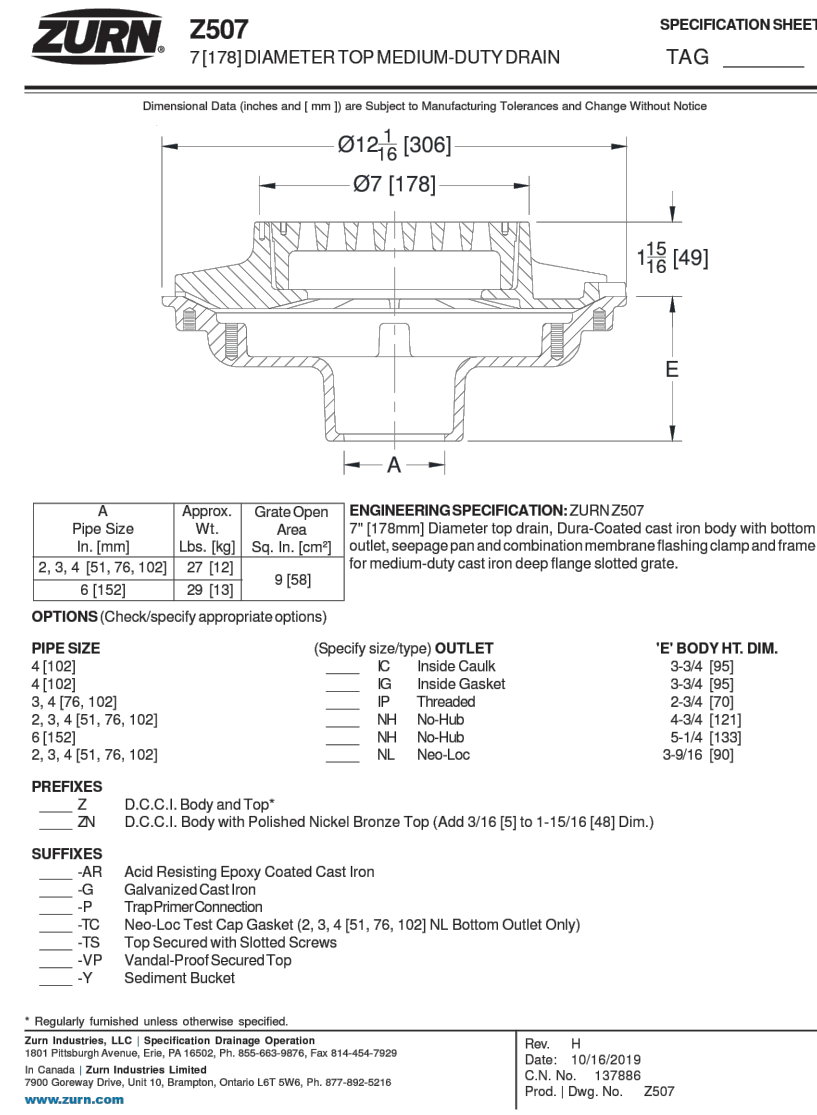
**L3.90**

Date: February 10, 2023

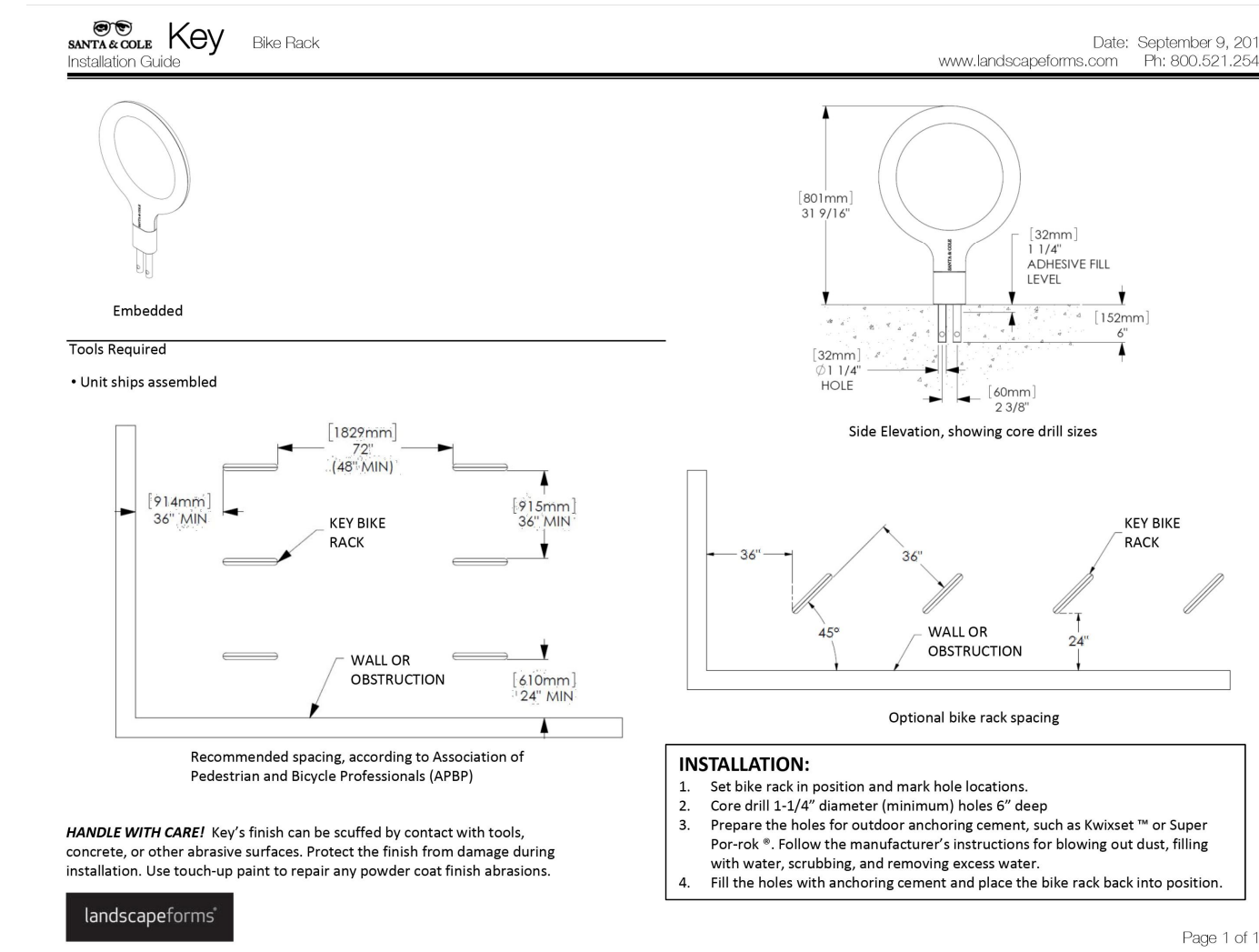




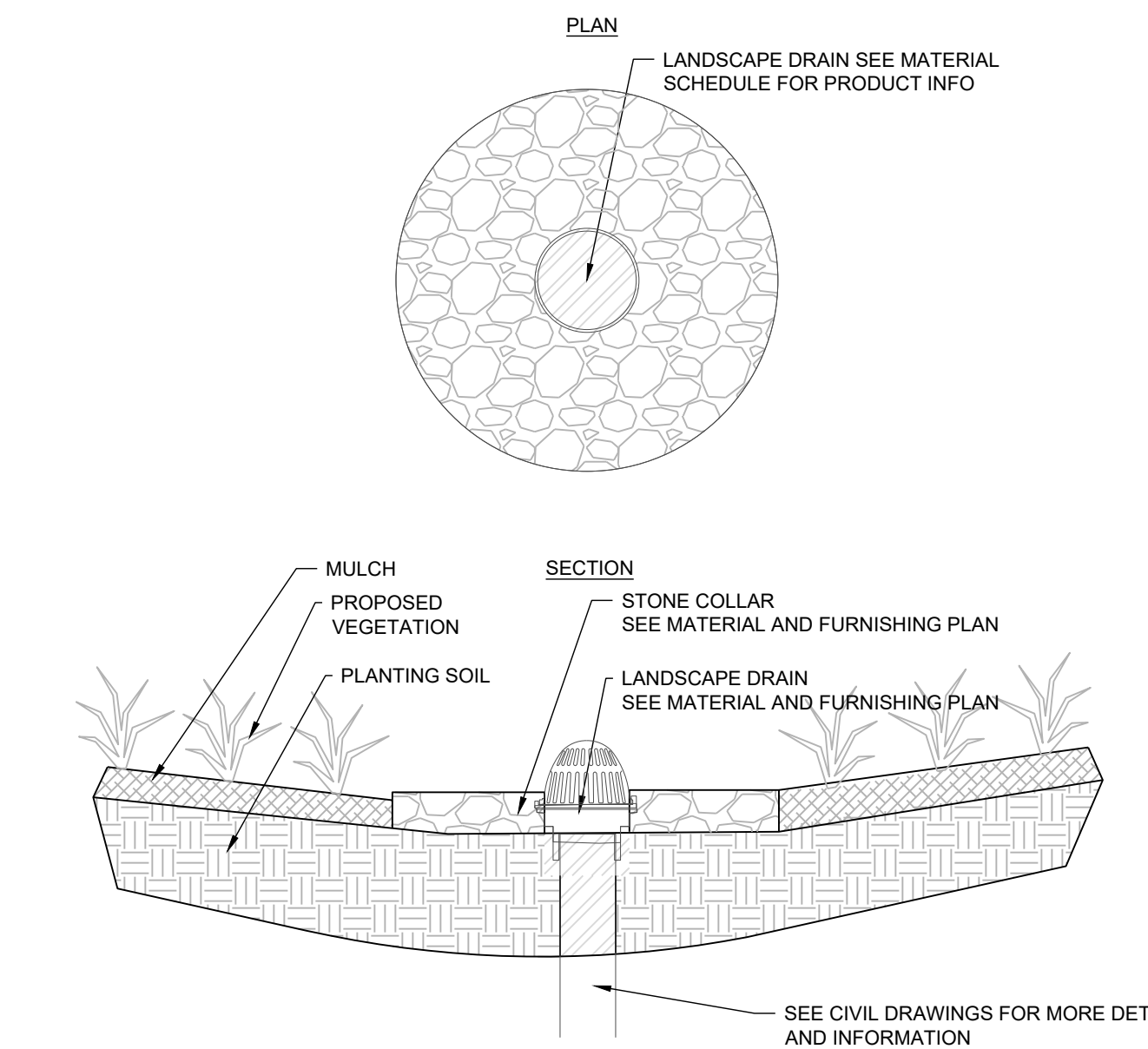
1 DRAIN IN HARDSCAPE  
1" = 1'-0"



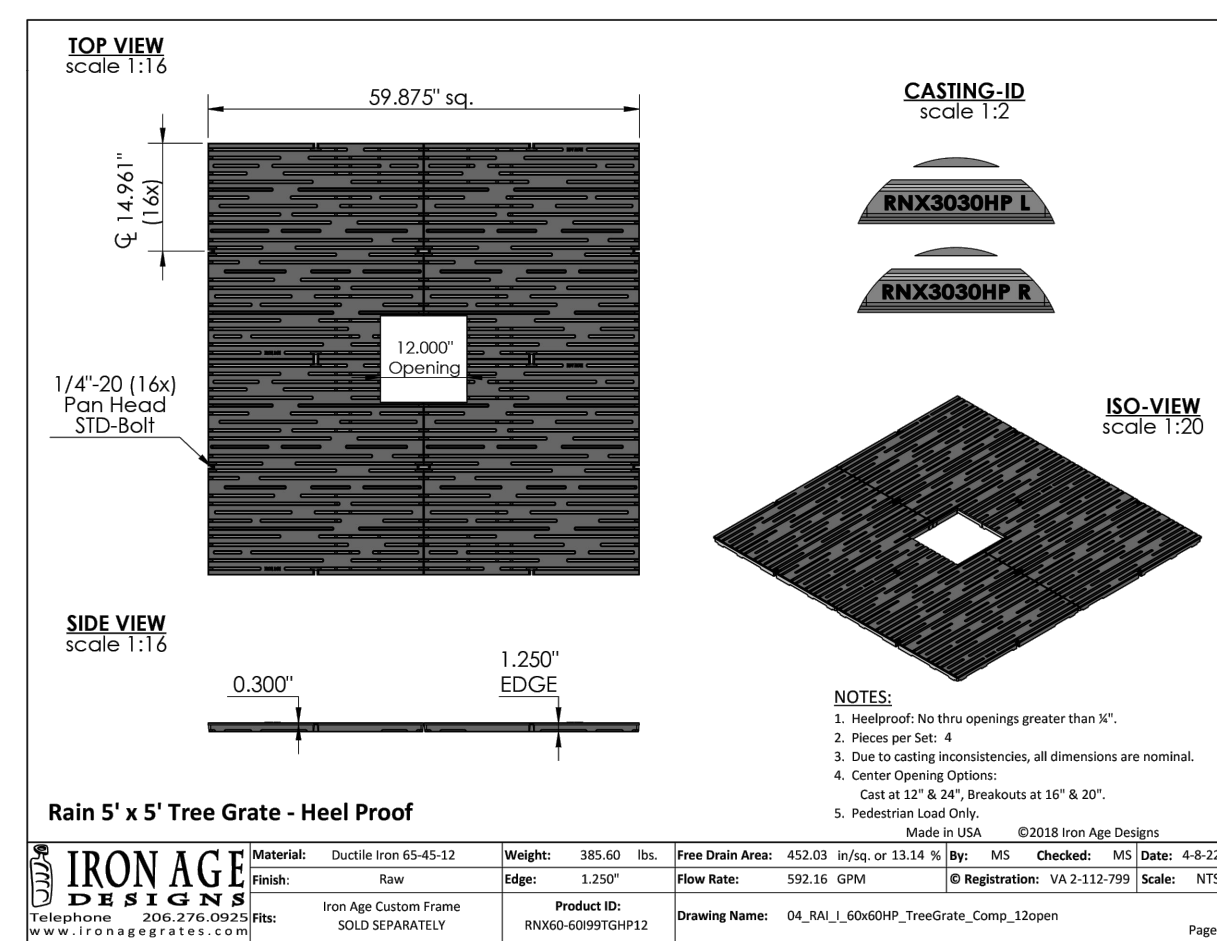
2 AREA DRAIN GRATE  
1" = 1'-0"



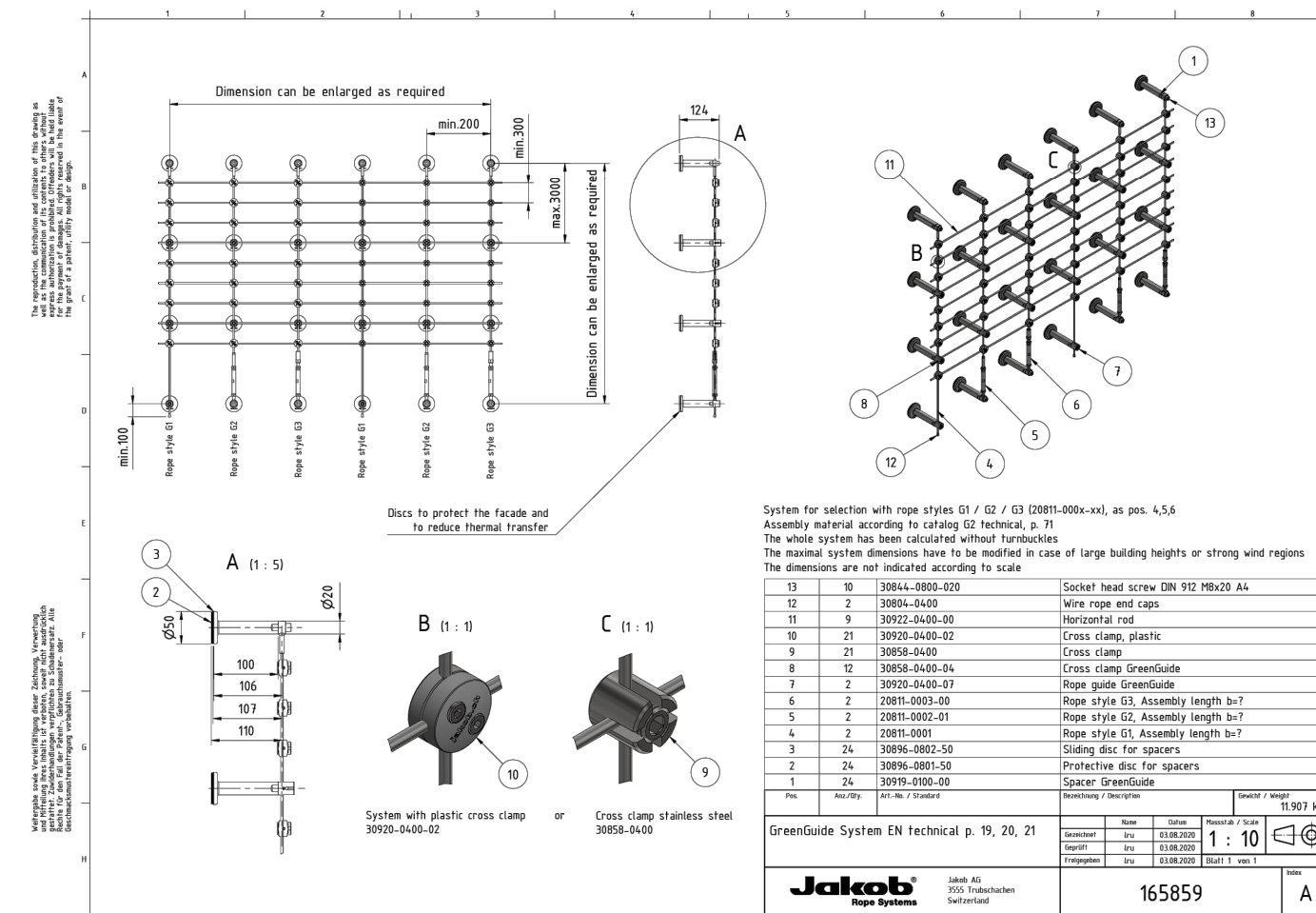
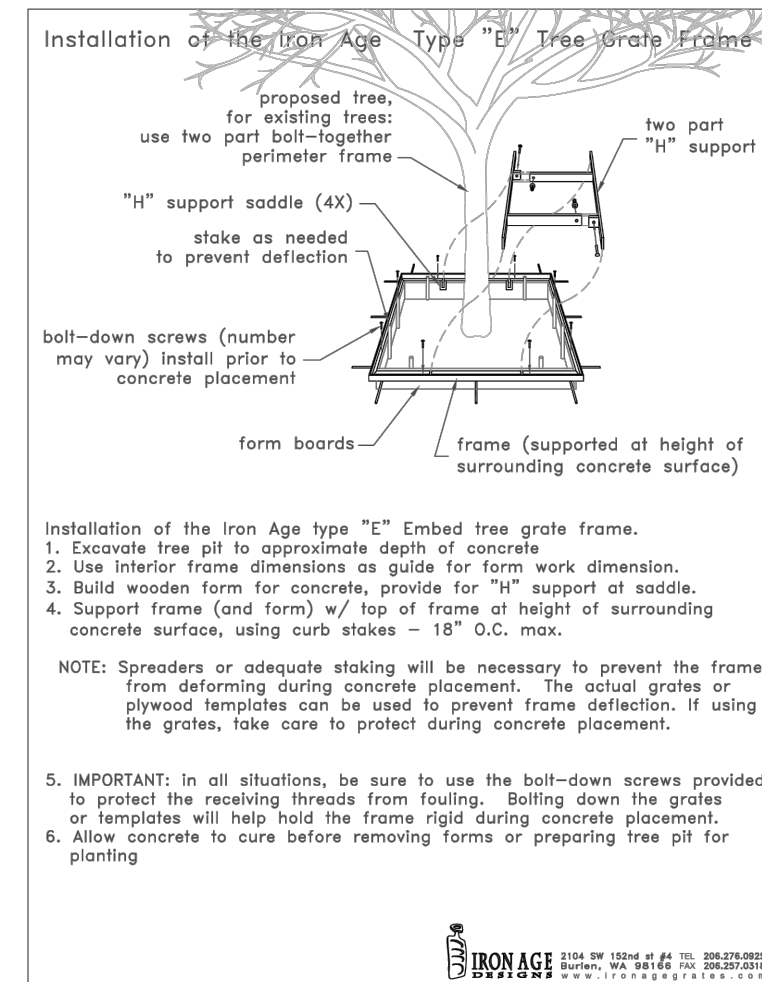
3 BIKE RACK INSTALLATION  
1" = 1"



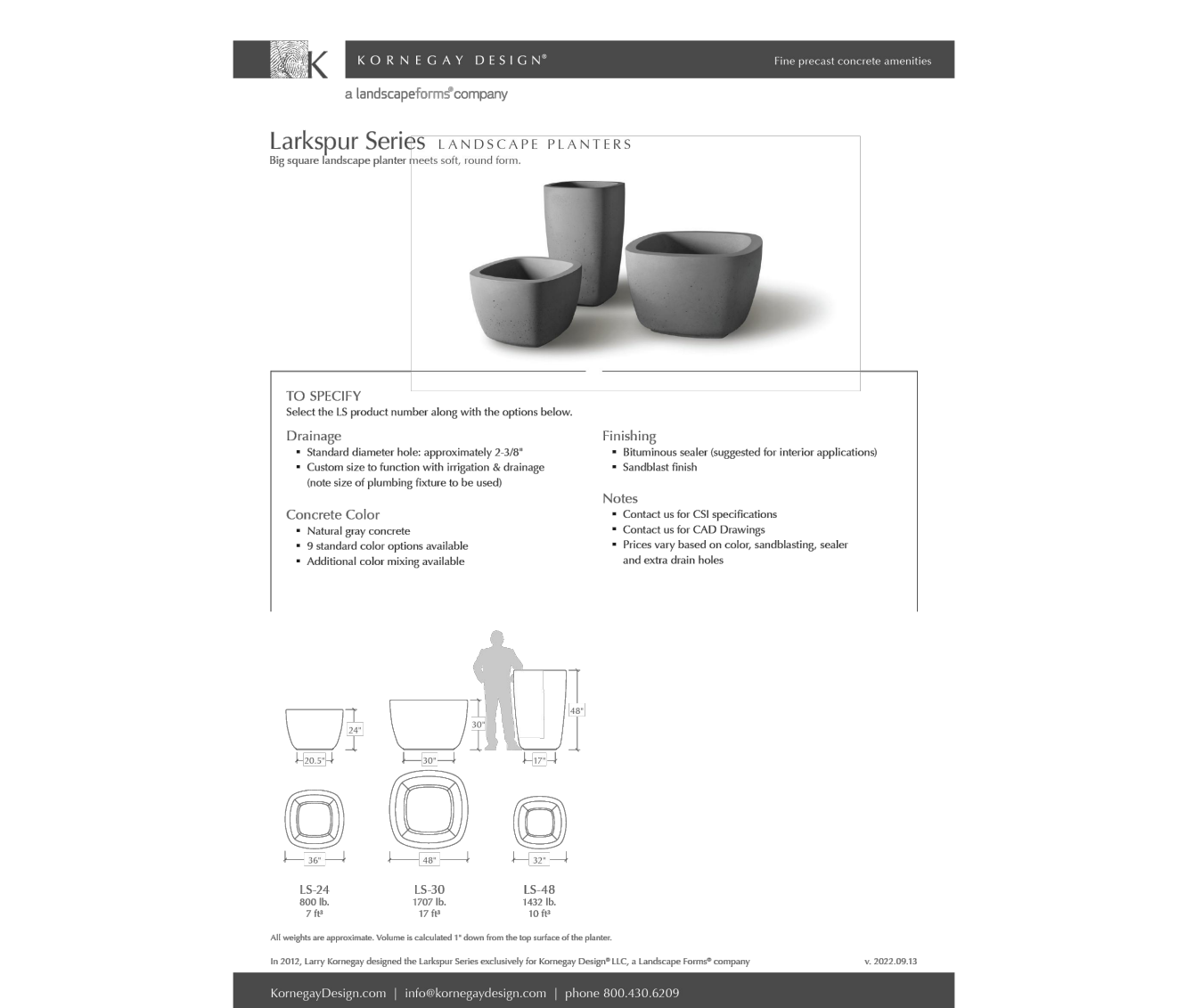
4 RIVER ROCK AND LANDSCAPE DRAIN  
1" = 1'-0"



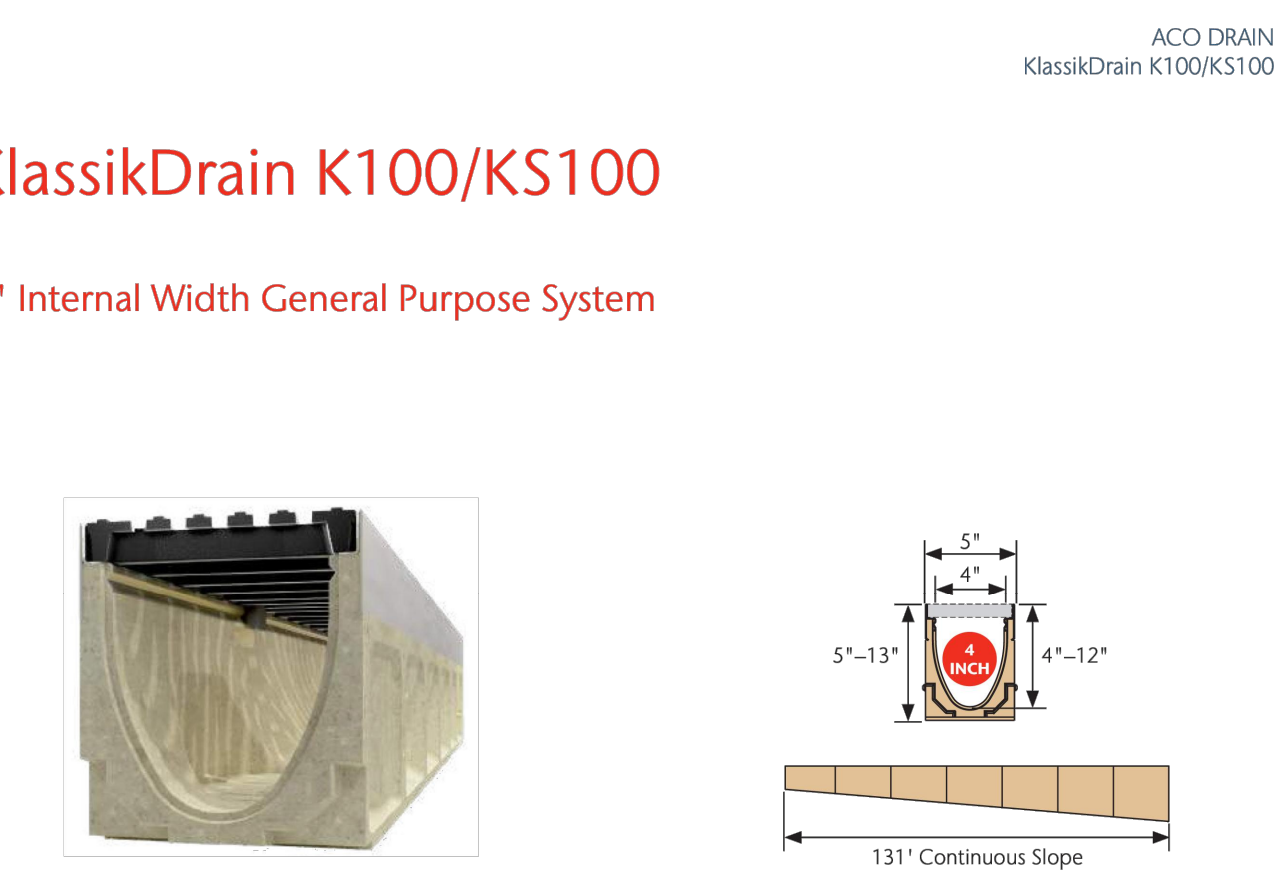
5 TREE GRATE  
1" = 1"



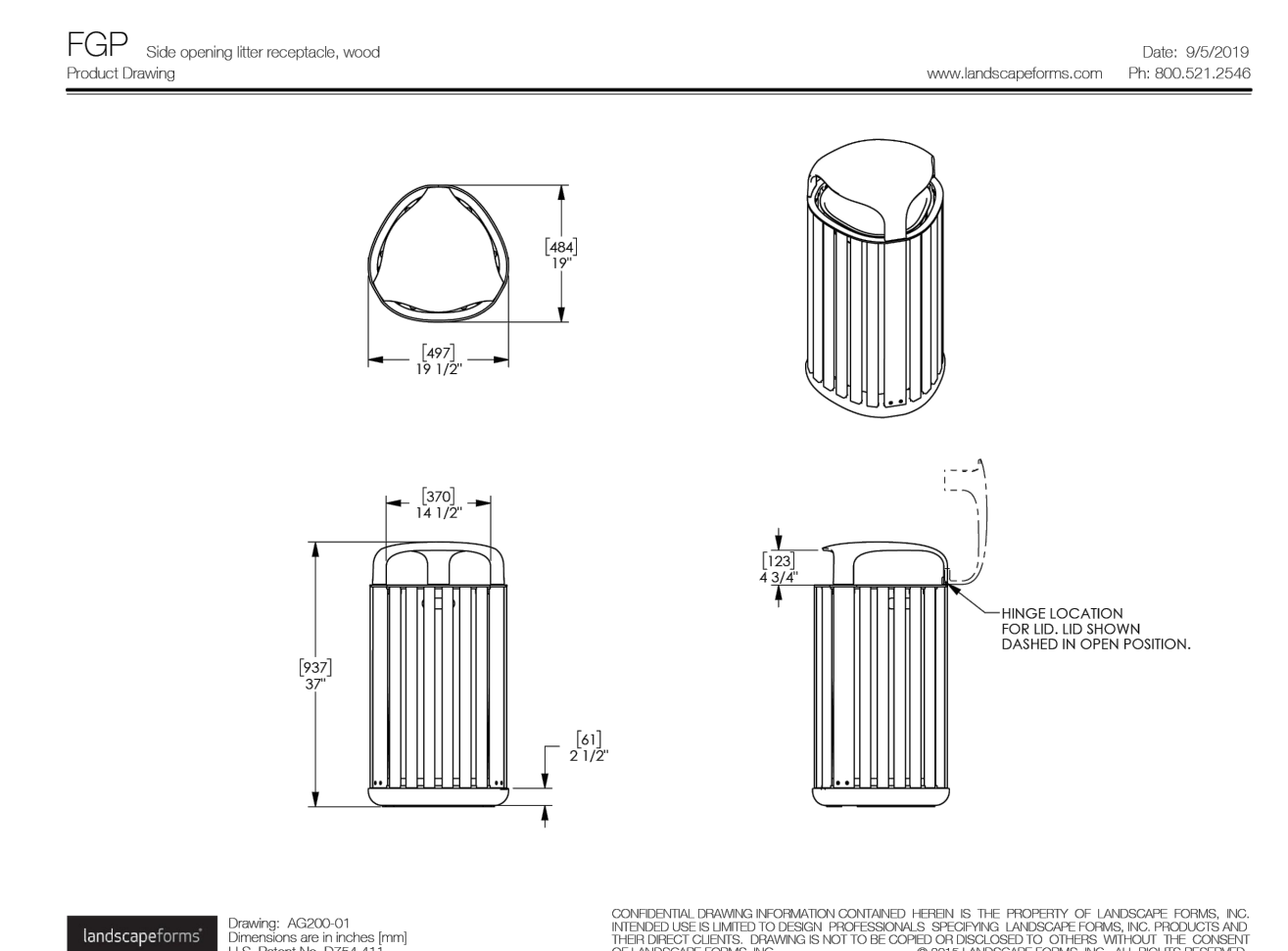
6 WIRE LATTICE STRUCTURE  
1" = 1"



7 PLANTER POT  
1" = 1'-0"



8 TRENCH DRAIN  
1" = 1"



9 TRASH RECEPTACLE  
1" = 1'-0"

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| 3   | 12-JUN-23 | SD PERMIT REVIEW COMMENTS                     |
| 4   | 25-JUN-23 | REVISED PER REVIEW COMMENTS                   |
| 5   | 18-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 6   | 18-JUL-23 | REVISED PER REVIEW COMMENTS                   |
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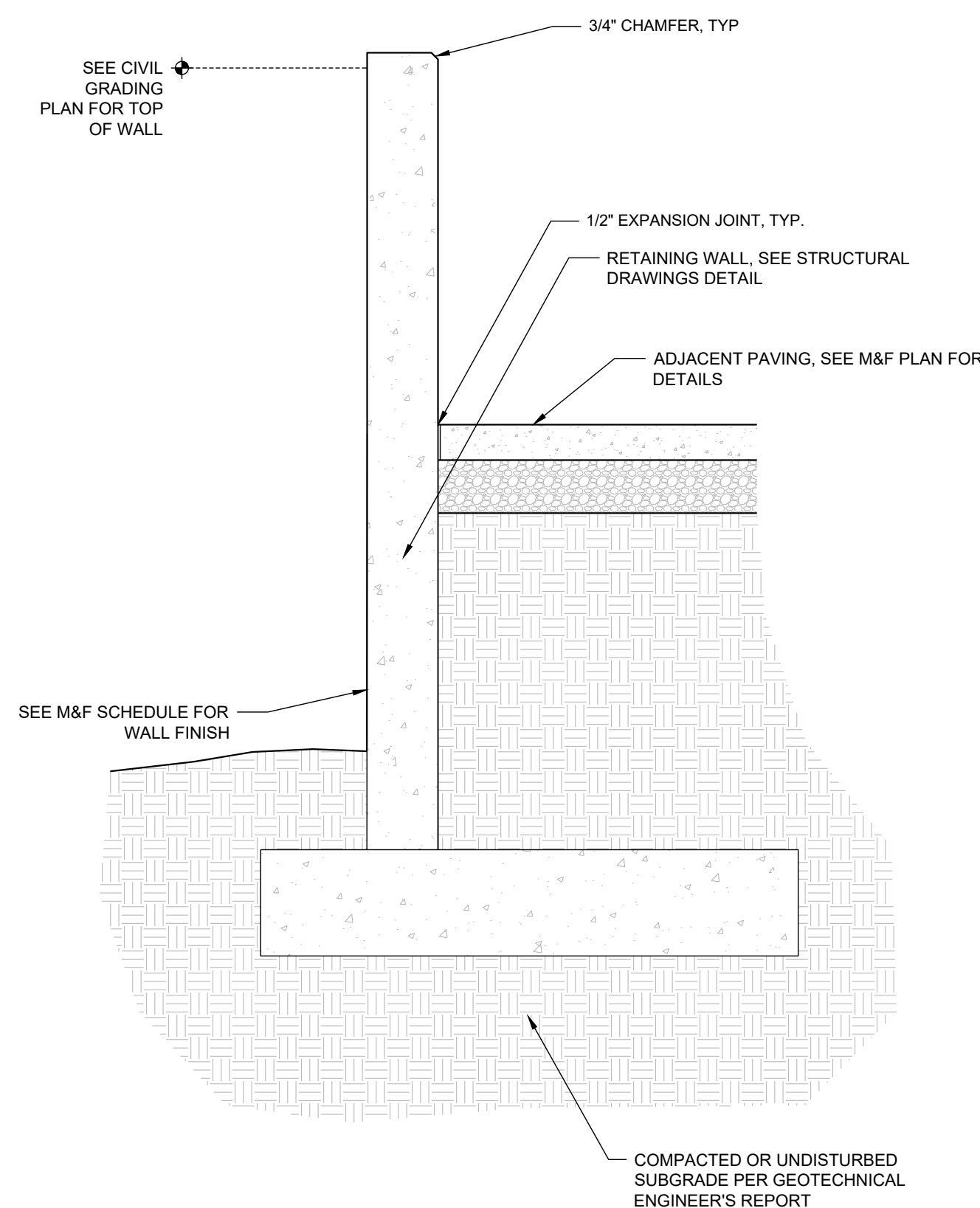
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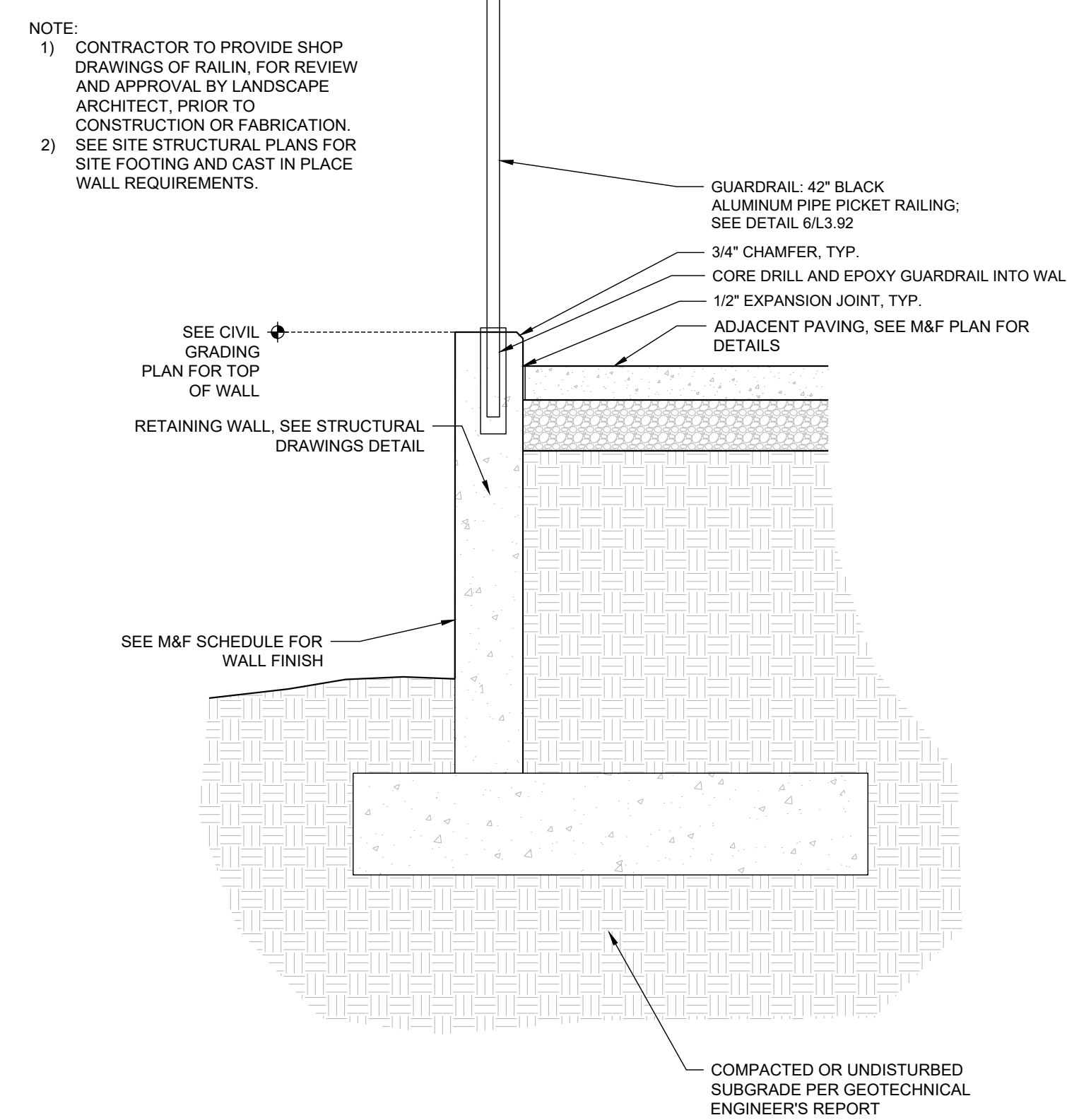
Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:

L3.91

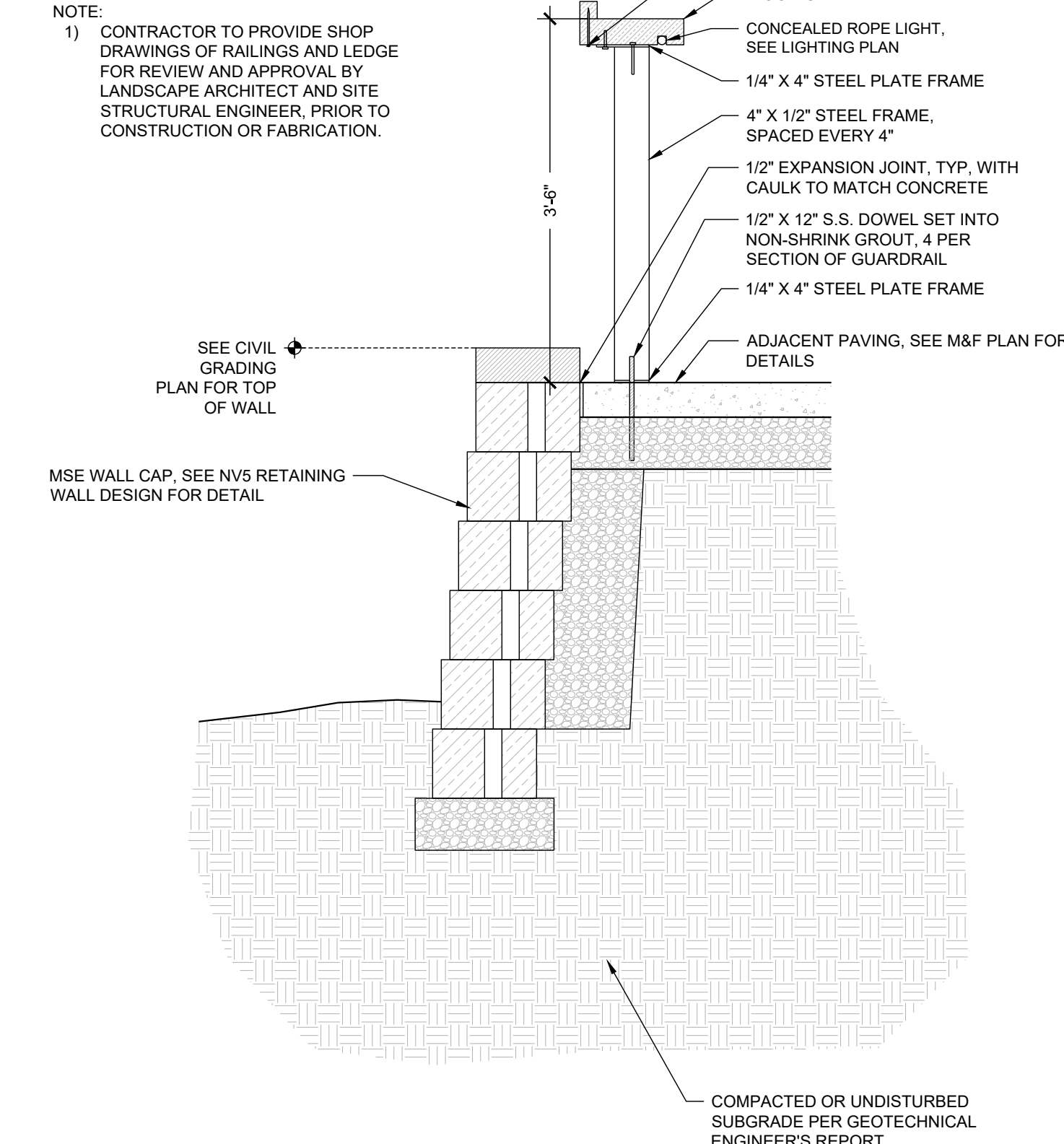
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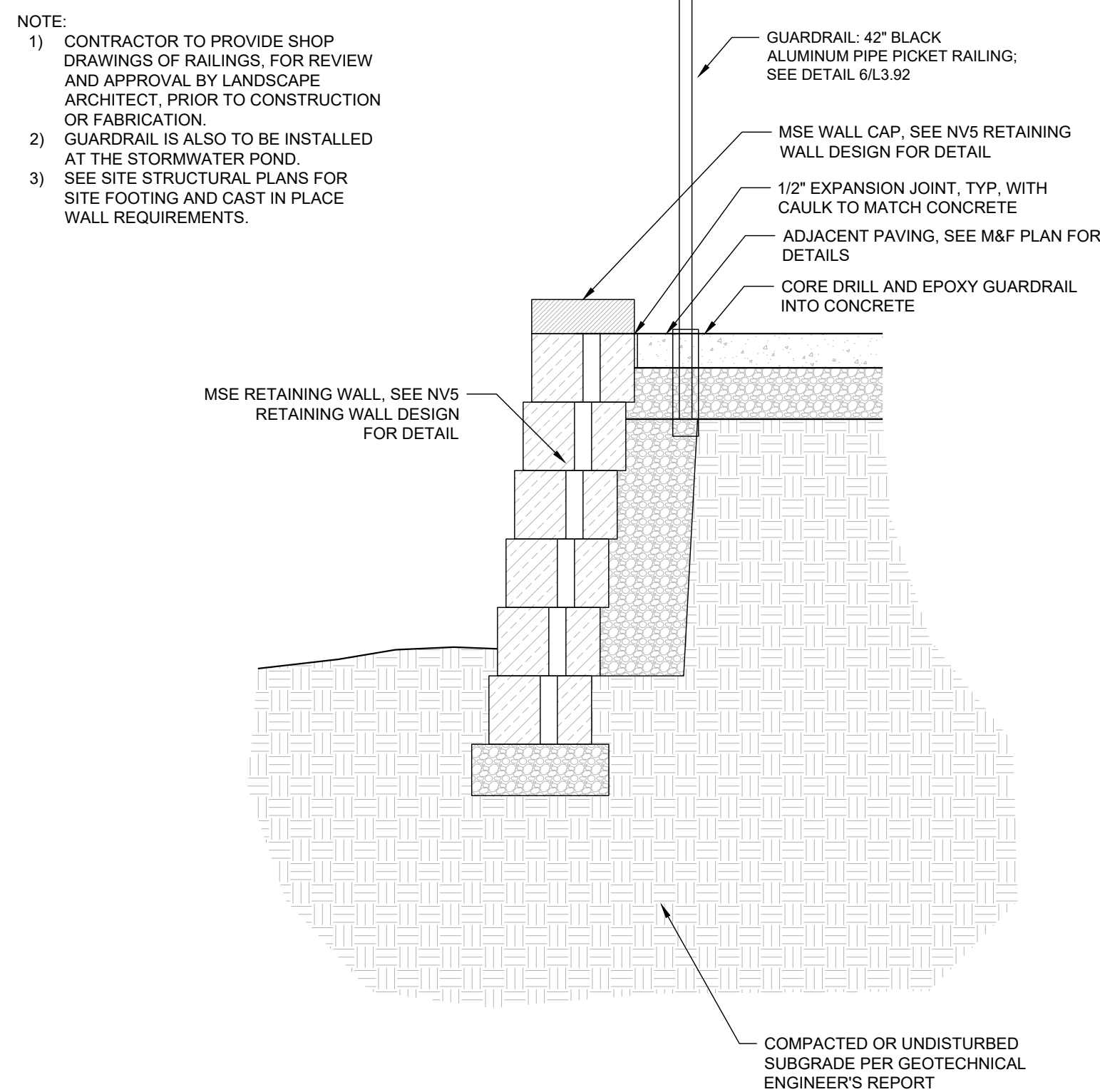
**1** CIP RETAINING WALL  
3/4" = 1'-0"



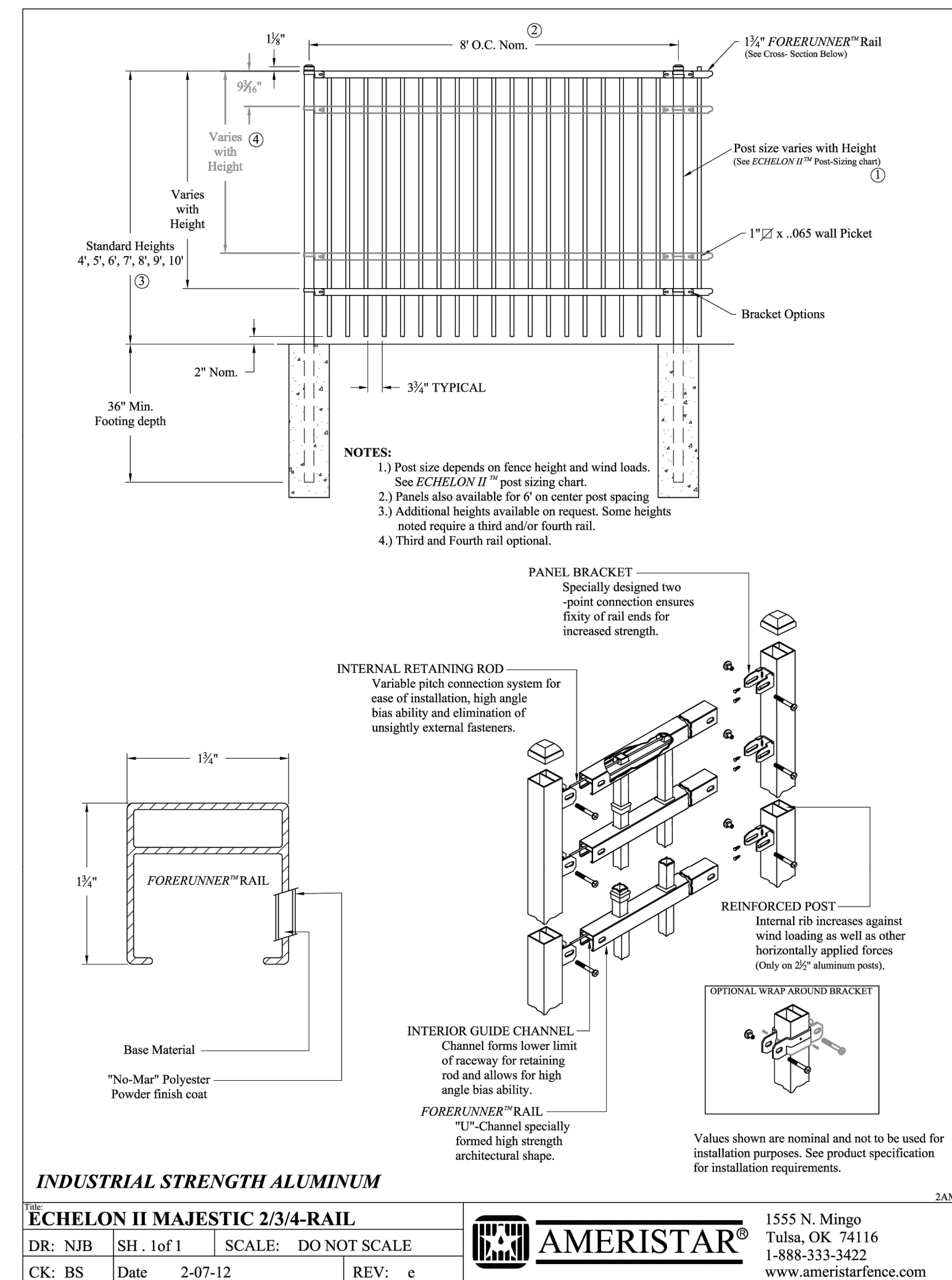
**2** CIP RETAINING WALL WITH GUARDRAIL  
3/4" = 1'-0"



**3** BAR LEDGE ON GUARDRAIL  
3/4" = 1'-0"



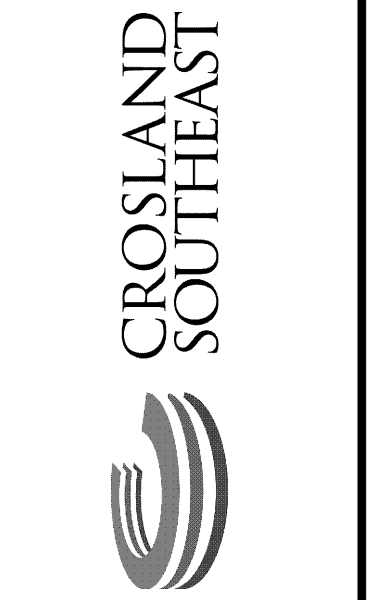
**4** MSE RETAINING WALL GUARDRAIL  
3/4" = 1'-0"



**6** GUARDRAIL (R-101)  
1" = 1"

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| 3   | 10-FEB-23 | SD PERMIT DEVELOPMENT                       |
| 4   | 10-FEB-23 | SD PERMIT DEVELOPMENT                       |
| 5   | 10-FEB-23 | SD PERMIT DEVELOPMENT                       |
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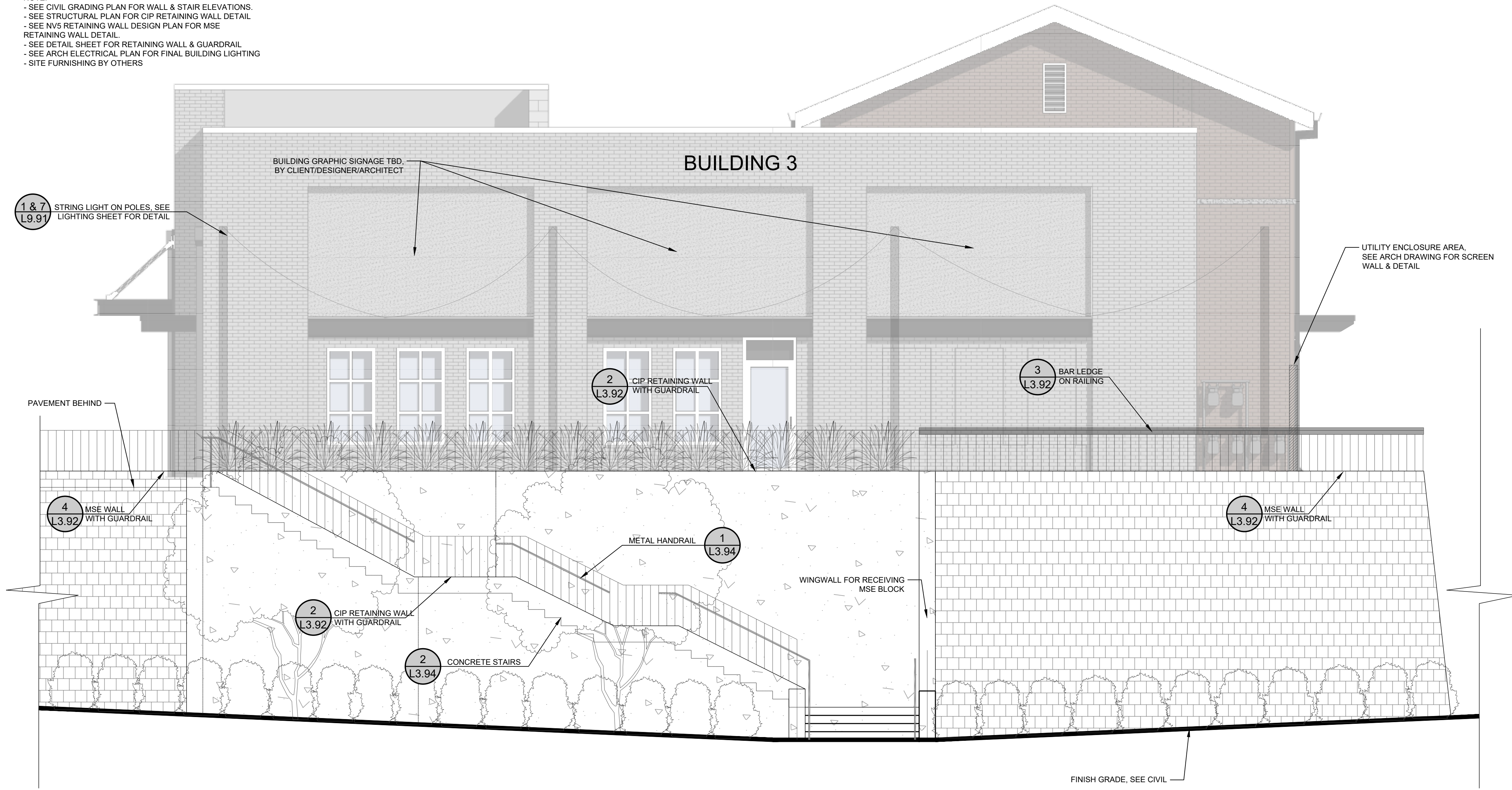
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| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
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**L3.92**

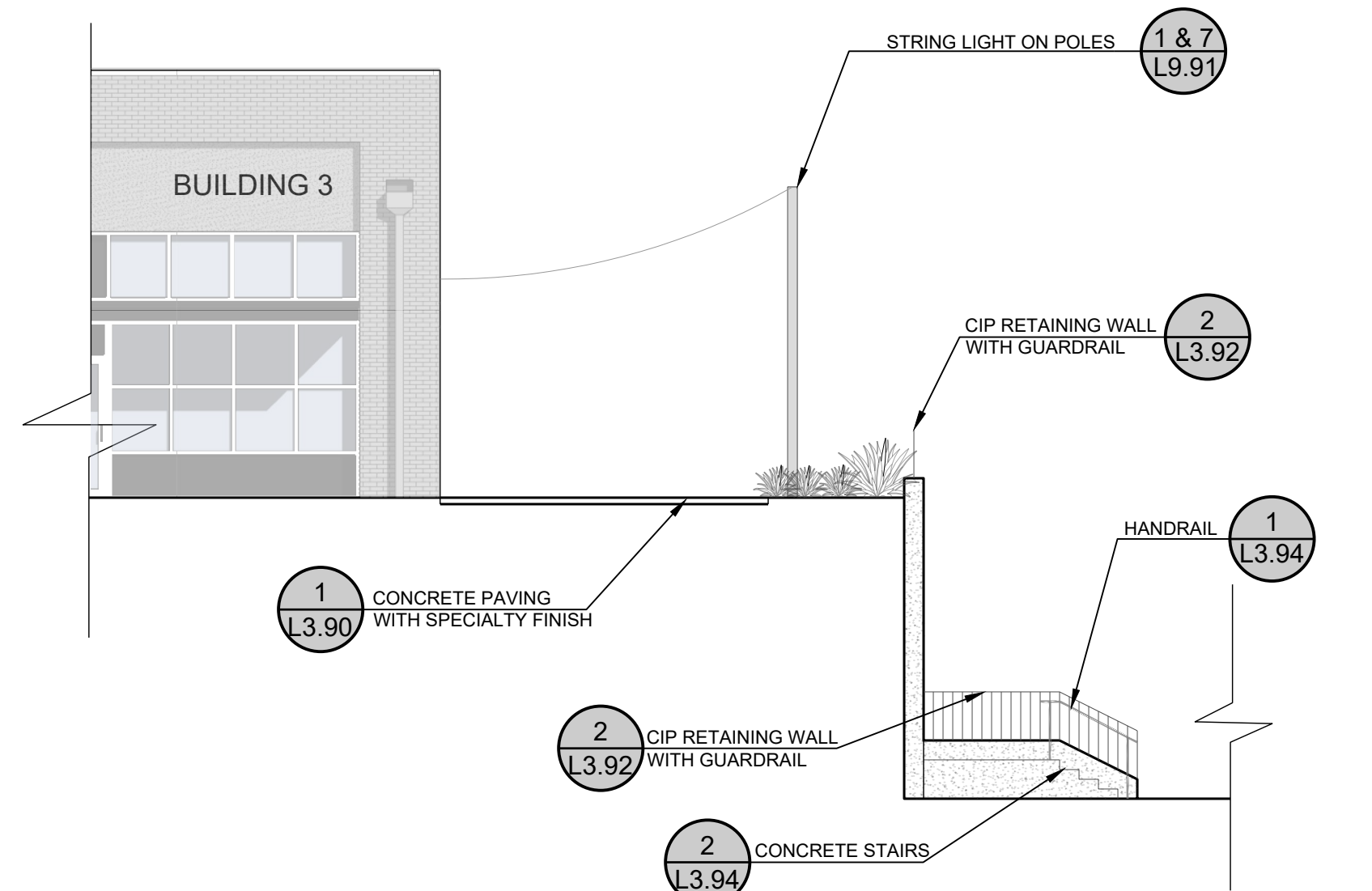
Date: February 10, 2023

NOTE:  
 - SEE CIVIL GRADING PLAN FOR WALL & STAIR ELEVATIONS.  
 - SEE STRUCTURAL PLAN FOR CIP RETAINING WALL DETAIL.  
 - SEE NV9 RETAINING WALL DESIGN PLAN FOR MSE  
 RETAINING WALL DETAIL.  
 - SEE DETAIL SHEET FOR RETAINING WALL & GUARDRAIL.  
 - SEE ARCH ELECTRICAL PLAN FOR FINAL BUILDING LIGHTING  
 - SITE FURNISHING BY OTHERS



**1** CORNER WALL & STAIR ELEVATION  
 3" = 1'-0"

NOTE:  
 - SEE CIVIL GRADING PLAN FOR WALL & STAIR ELEVATIONS.  
 - SEE STRUCTURAL PLAN FOR CIP RETAINING WALL DETAIL.  
 - SEE DETAIL SHEET FOR RETAINING WALL & GUARDRAIL.  
 - SEE ARCH ELECTRICAL PLAN FOR FINAL BUILDING LIGHTING  
 - SITE FURNISHING BY OTHERS



**2** CORNER SPACE SECTION  
 1 1/2" = 1'-0"

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| 3 | 12-JUN-23 | REVISED PER REVIEW COMMENTS                    |
| 4 | 29-JUL-23 | CART CORRAL DETAIL REVISED                     |
| 5 | 18-AUG-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 18-AUG-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |



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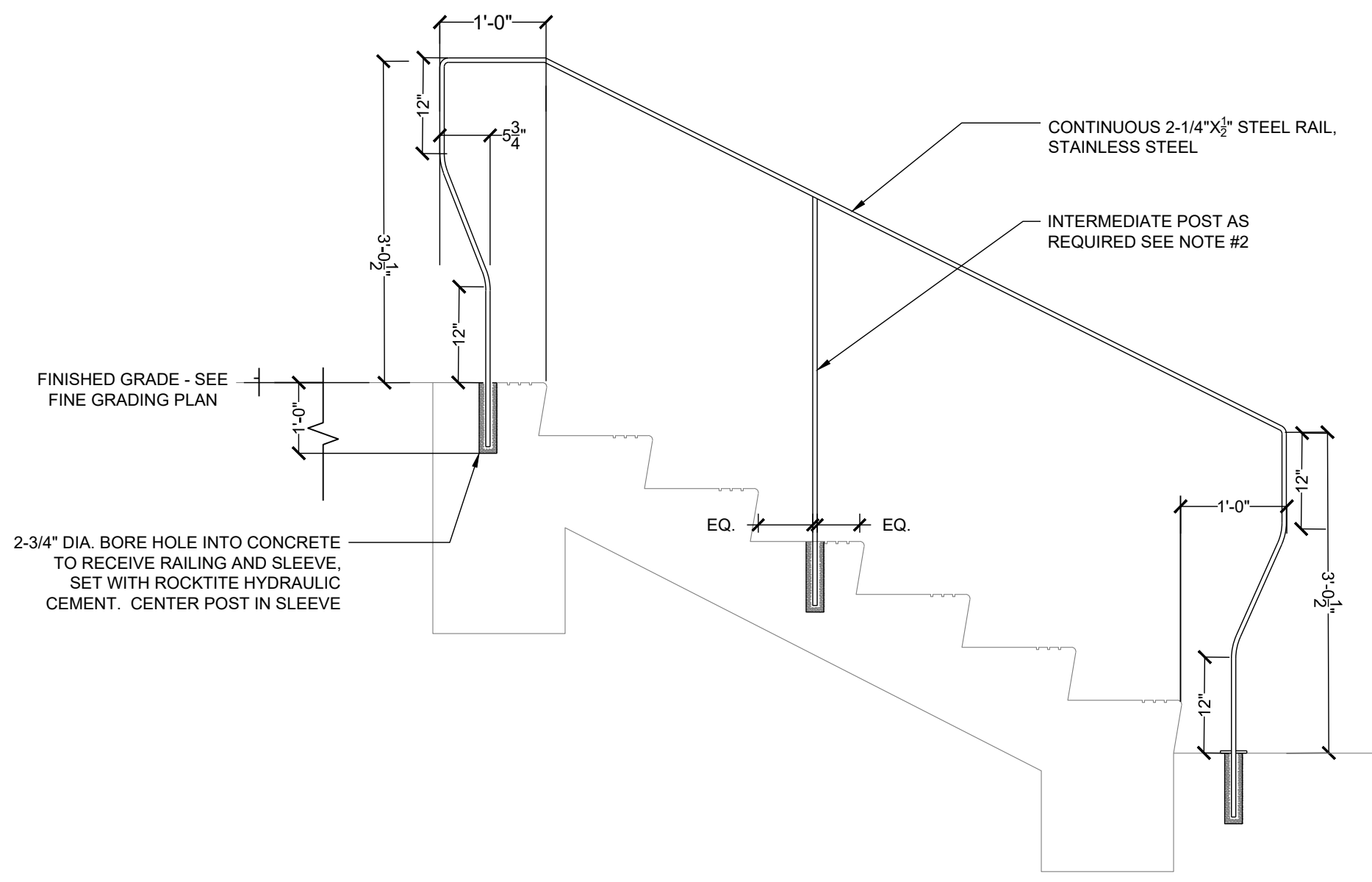
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| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L3.93**

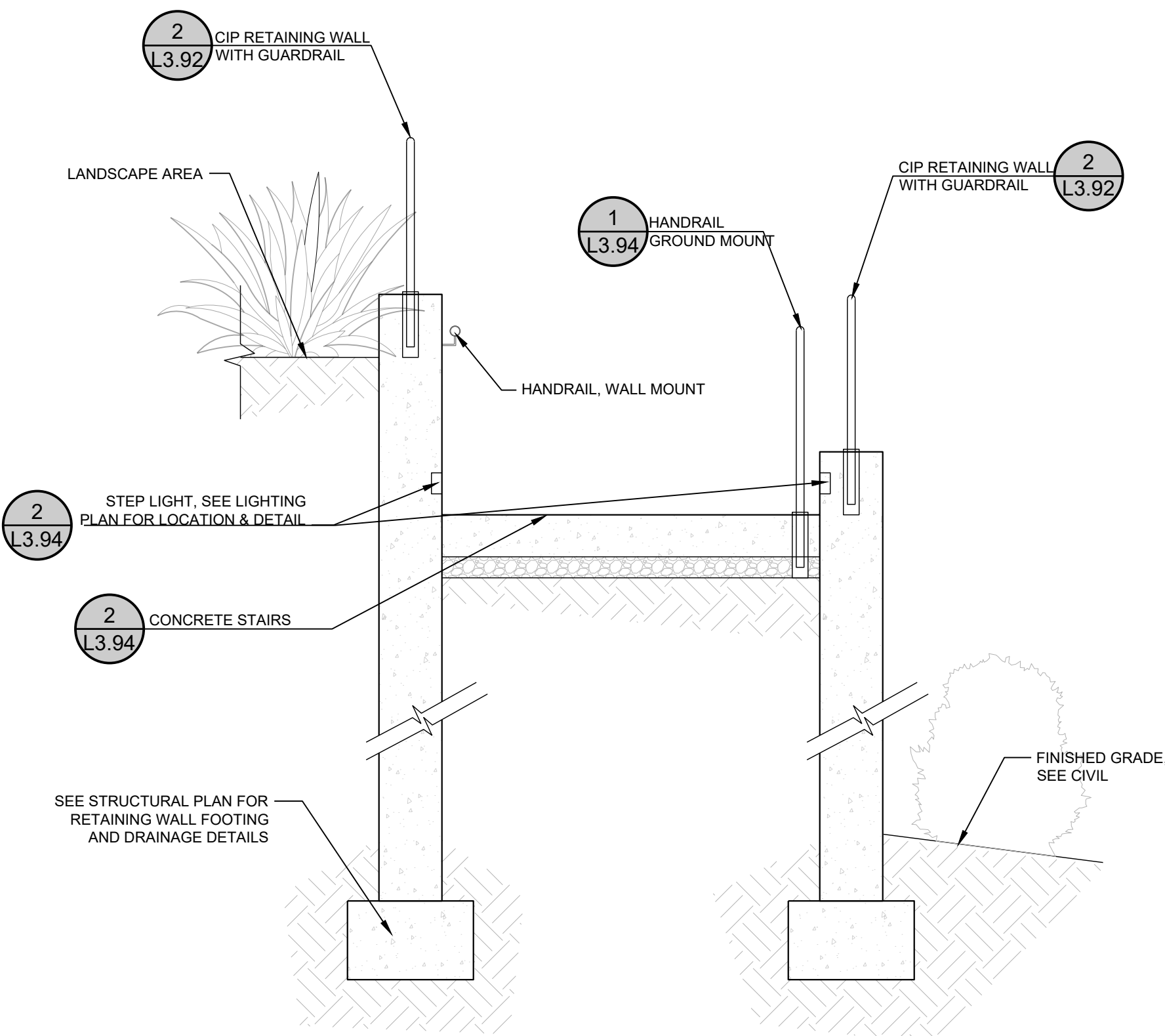
Date: February 10, 2023

- NOTES:  
 1. SUBMIT SHOP DRAWINGS FOR ALL HANDRAILS TO L.A. FOR REVIEW AND APPROVAL.  
 2. LENGTH OF HANDRAIL WILL VARY REFER TO LAYOUT PLANS.  
 3. WHEN LENGTH OF HANDRAIL EXCEEDS 6', USE INTERMEDIATE POSTS SPACED EQUALLY.  
 4. SEE MATERIALS/FURNISHING SCHEDULE FOR COLOR/FINISH.

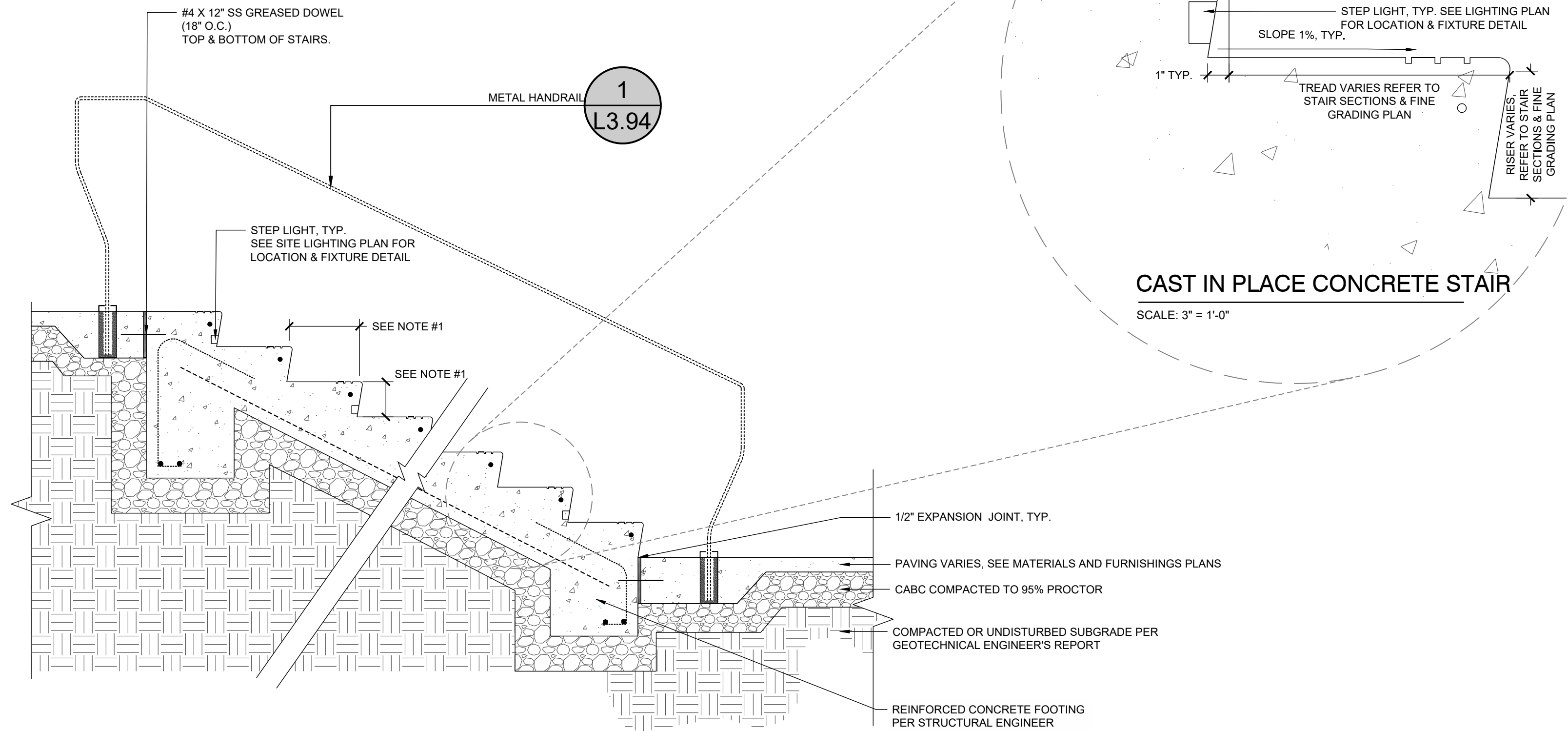


**1 METAL HANDRAIL**  
 3/4" = 1'-0"

NOTE:  
 - SEE CIVIL DRAWING FOR RETAINING WALL STAIRS & FINISH GRADE

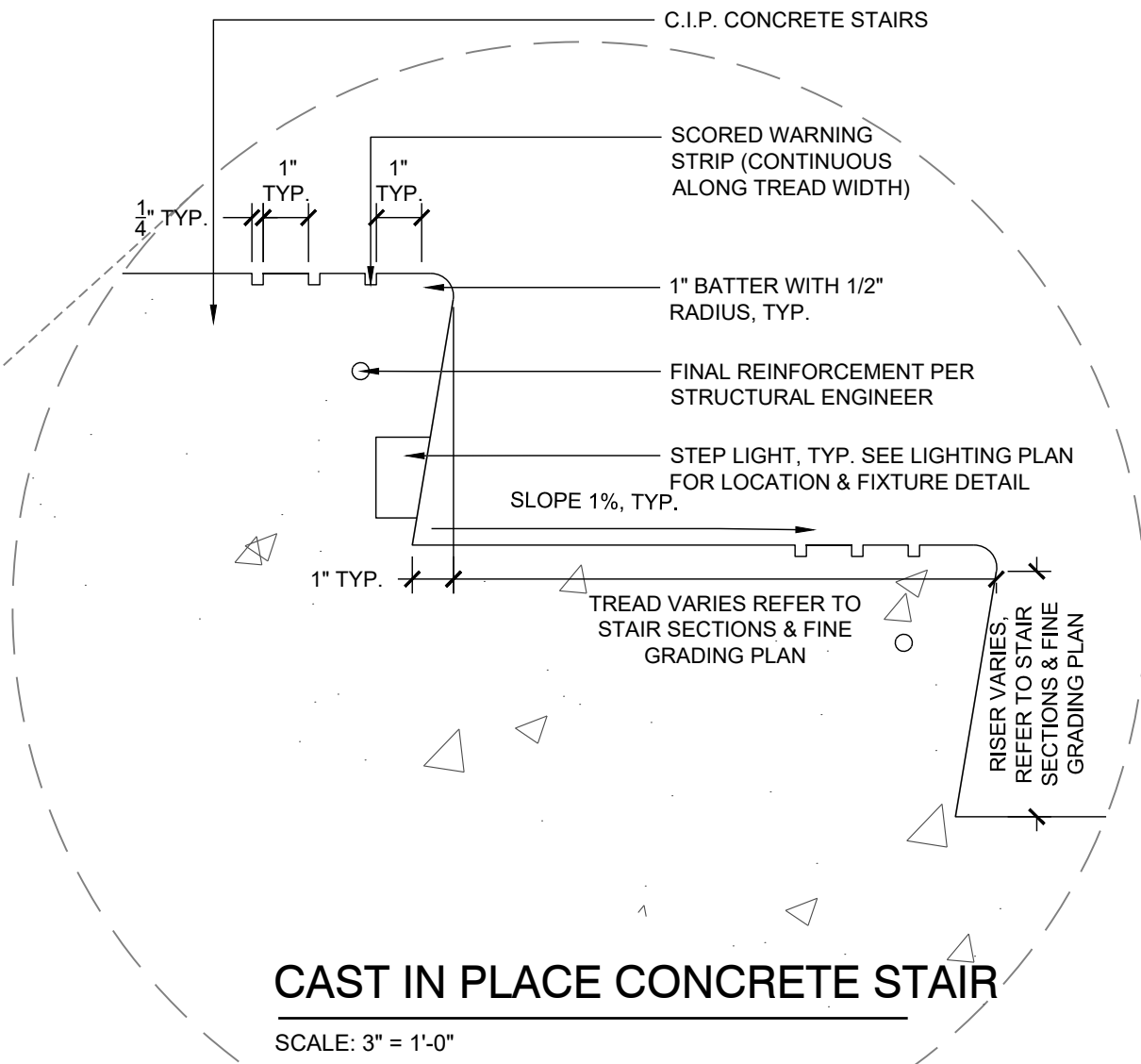


**3 STAIR WITH RAILINGS - CROSS SECTION**  
 1/2" = 1'-0"



- NOTES:  
 1. RISER AND TREAD QUANTITIES VARY. REFER TO M&F SCHEDULE AND FINE GRADING PLAN.

**2 CAST IN PLACE CONCRETE STAIR**  
 3/4" = 1'-0"



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| 5 | 18-JUL-23 | CART CORRAL DETAIL REVISED                   |
| 6 | 18-JUL-23 | CART CORRAL DETAIL REVISED                   |
| 7 | 25-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL B |



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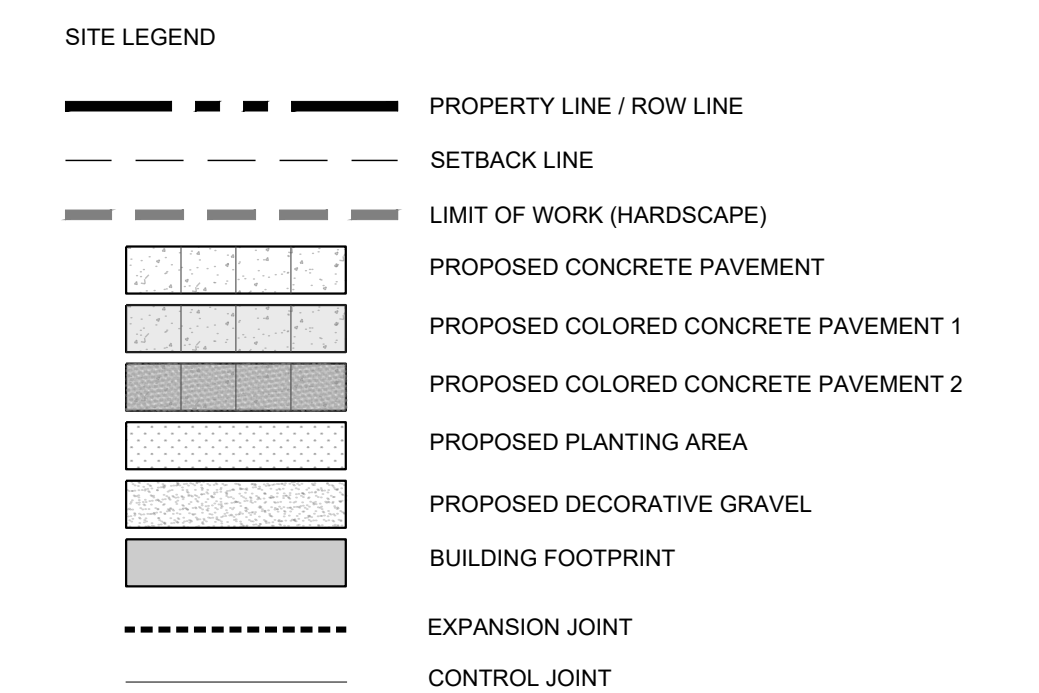
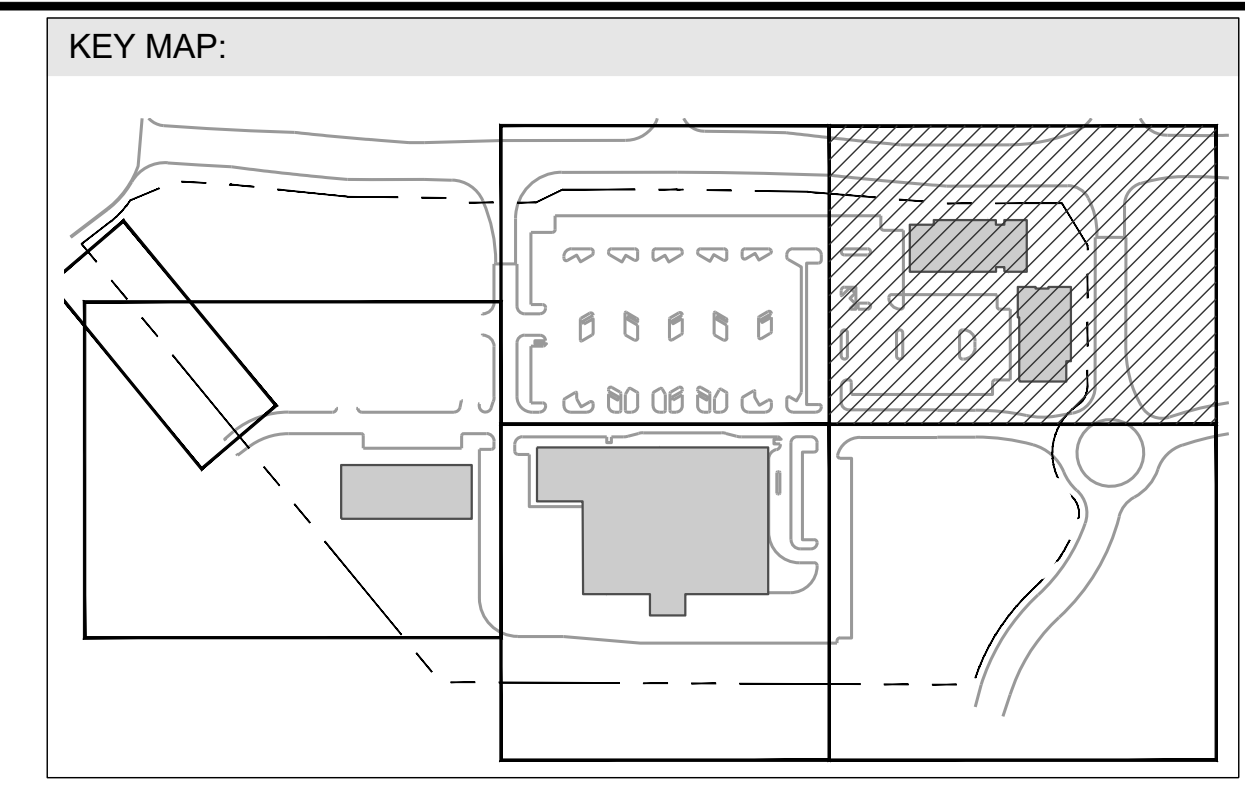
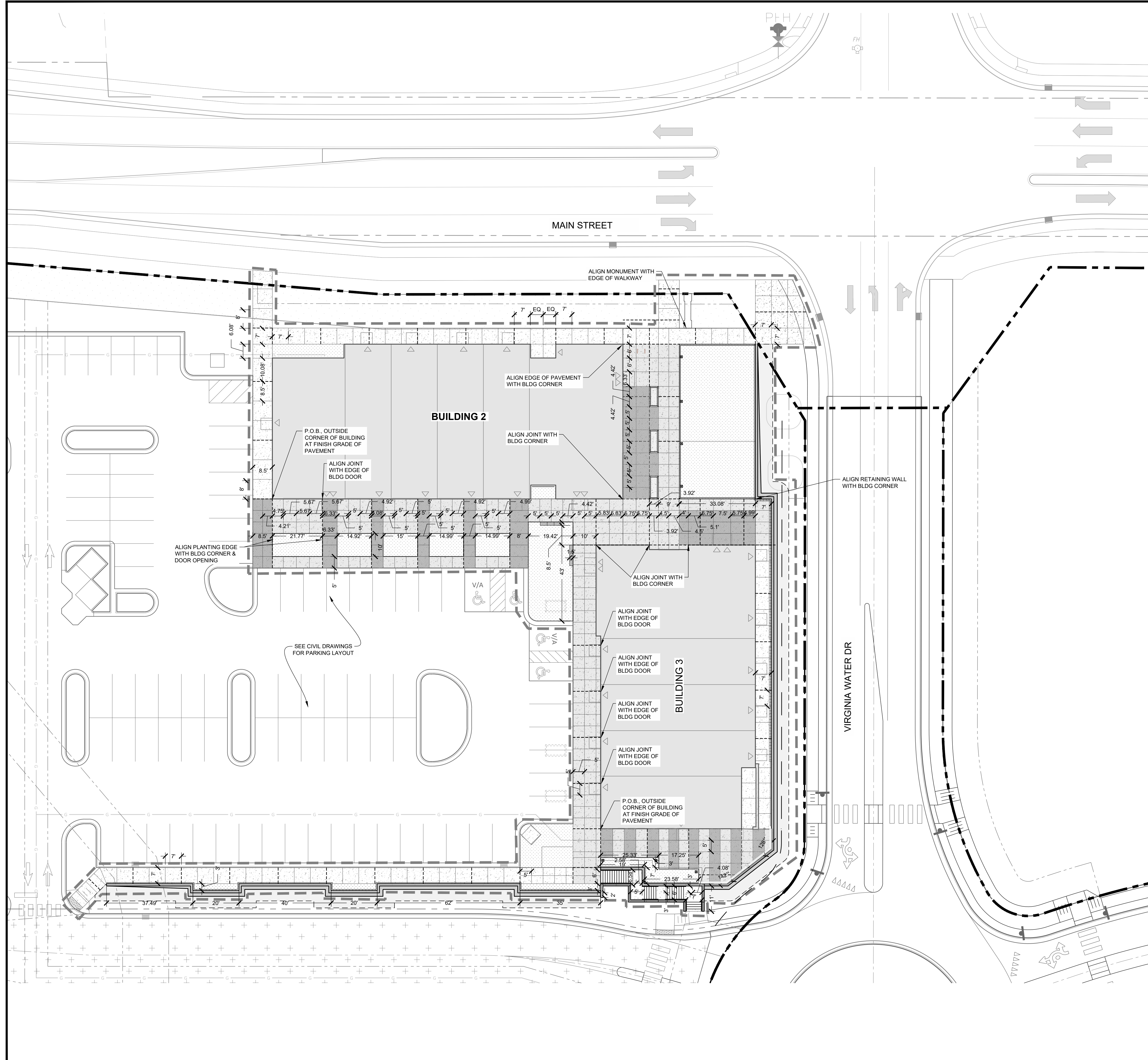
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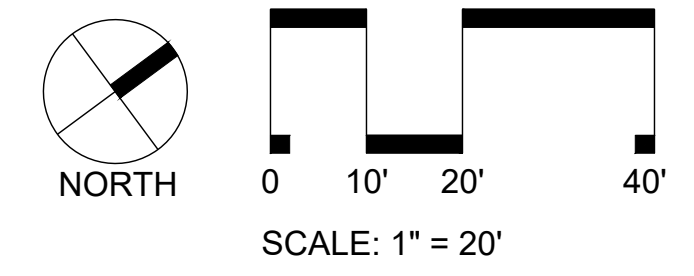
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| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L3.94**

Date: February 10, 2023

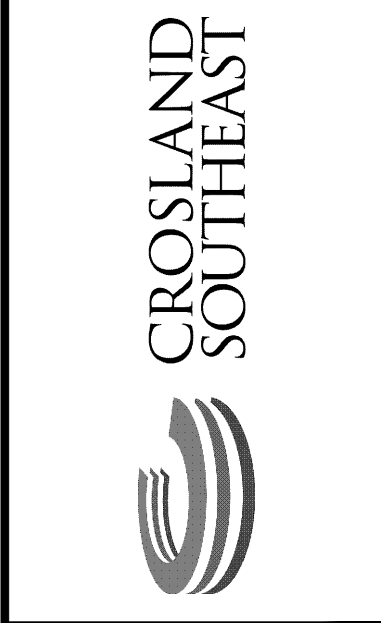


**NOTES:**  
 1. ALIGN SCORE JOINTS AS DEPICTED IN THE PLAN IF DIMENSIONS IS NOT PROVIDED, CONTACT LA IF DISCREPANCY IN DIMENSIONS IS FOUND.  
 2. CONTRACTOR TO START ART POINT IF BEARING (P.O.B.)



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| 4 | 29-JUL-23 | REVISOR PER REVIEW COMMENTS                 |
| 5 | 18-AUG-23 | CART CORRAL DESIGN REVISED                  |
| 6 | 18-AUG-23 | REVISOR PER REVIEW COMMENTS                 |
| 7 | 20-SEP-23 | REVISOR PER REVIEW COMMENTS                 |



**LAYOUT PLAN NE**

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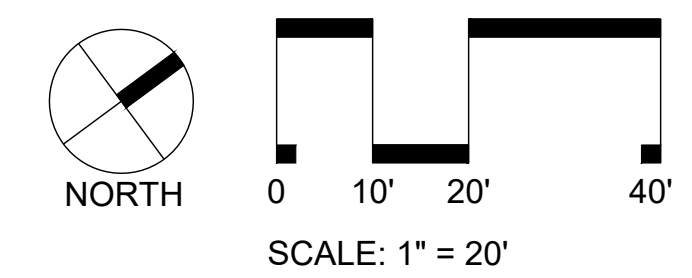
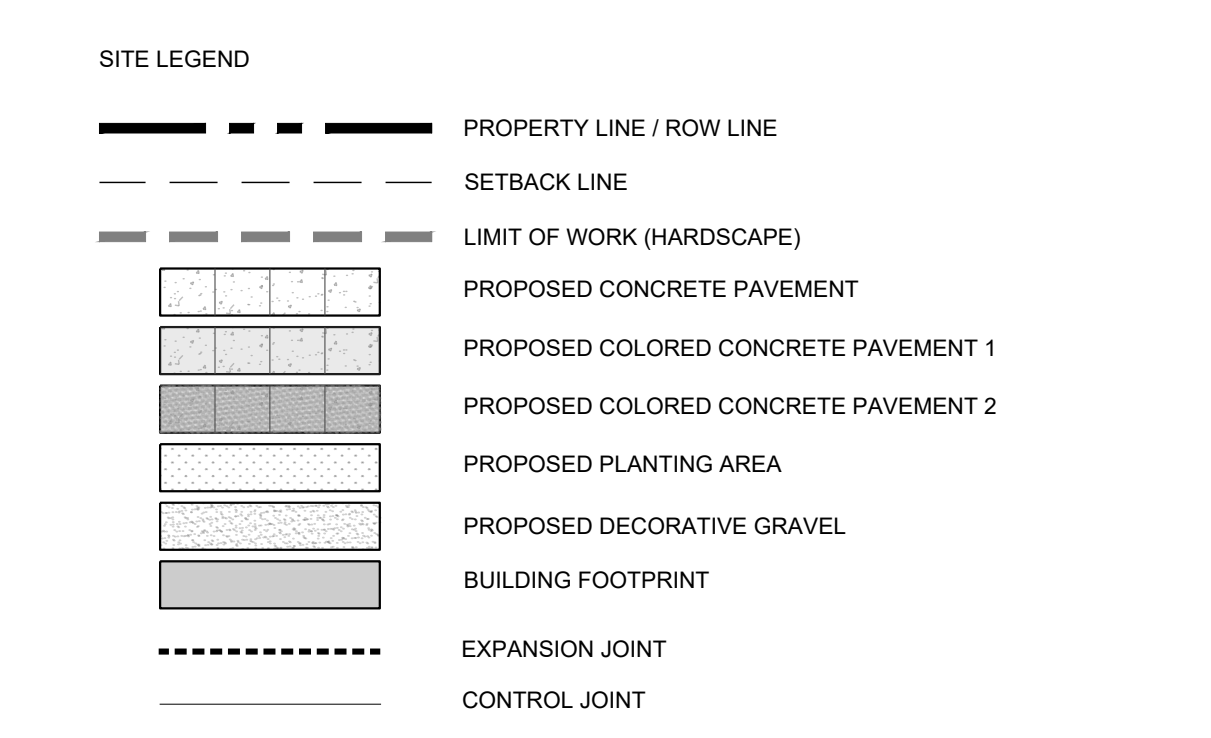
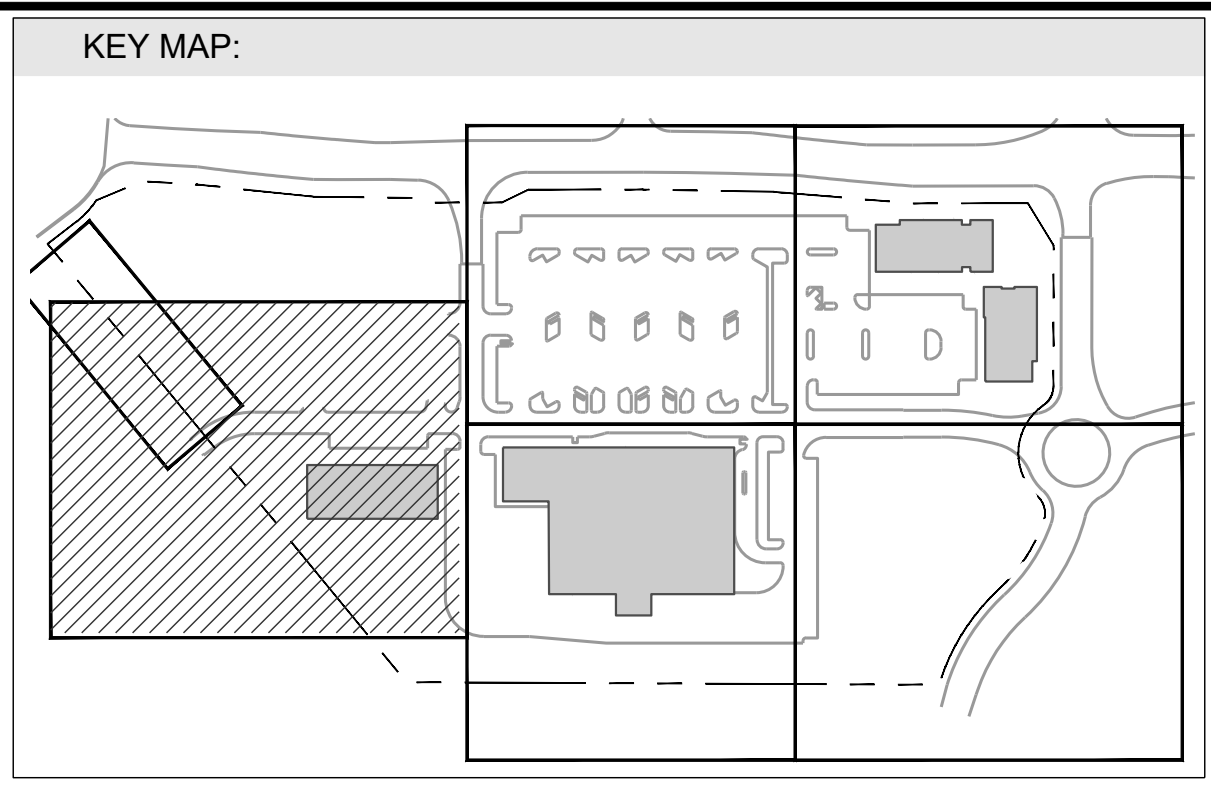
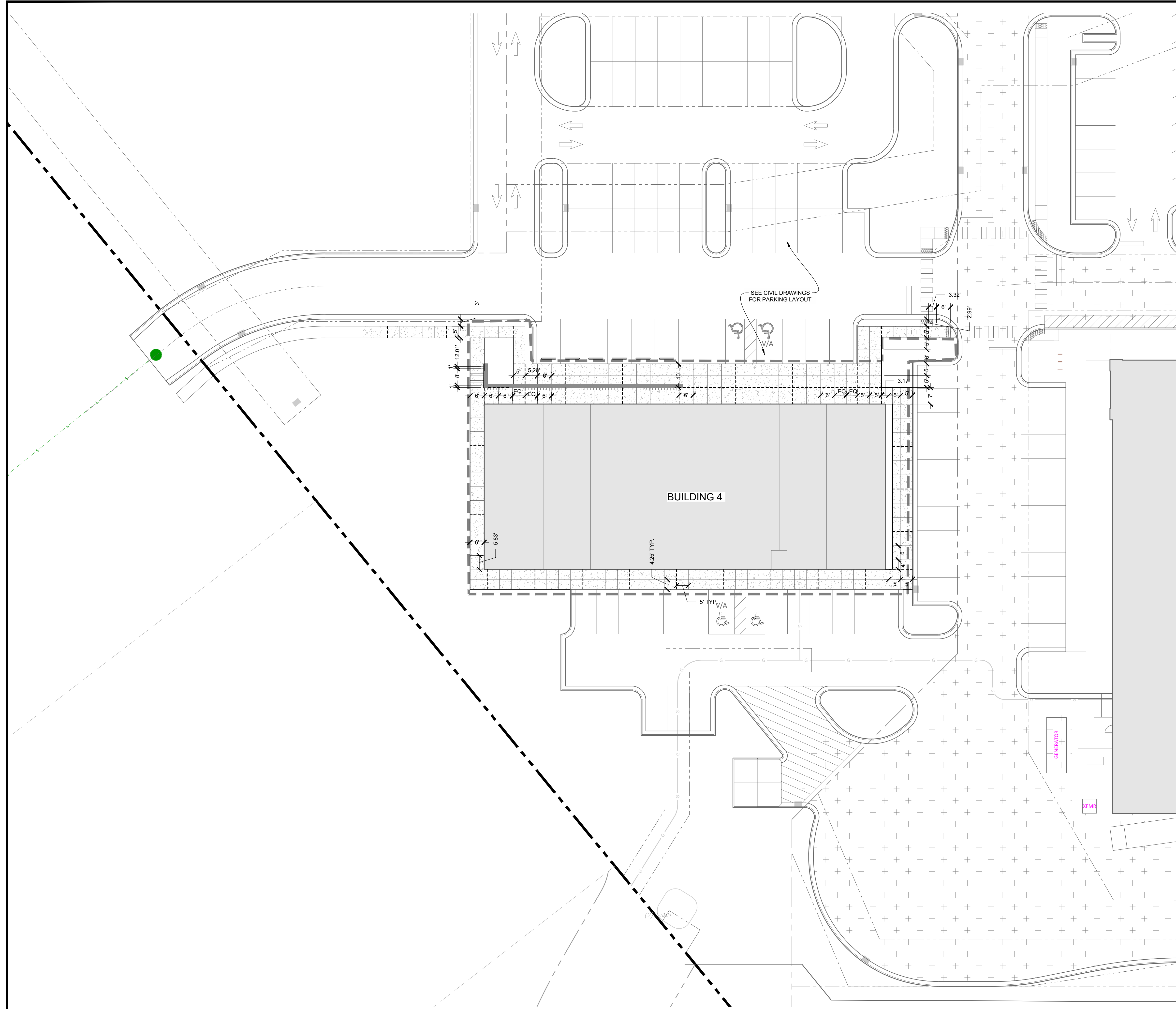
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9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L4.11**

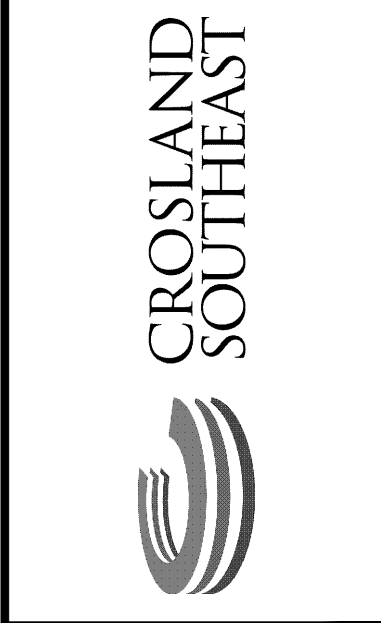
Date: February 10, 2023



**- Final Drawing -  
Issued for Permit**

**Review Purposes Only**

| # | DATE      | DESCRIPTION   |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST TO PERMIT DEVELOPER |
| 2 | 24-APR-23 | SDP PERMIT REVIEW SUBMITTAL #1                                  |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW COMMENTS                                      |
| 4 | 29-JUL-23 | CART CORRAL DETAIL REVISED                                      |
| 5 | 19-AUG-23 | REVISED PER REVIEW COMMENTS                                     |
| 6 | 19-AUG-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2                  |
| 7 | 26-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3                  |



**LAYOUT PLAN BLDG 4**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

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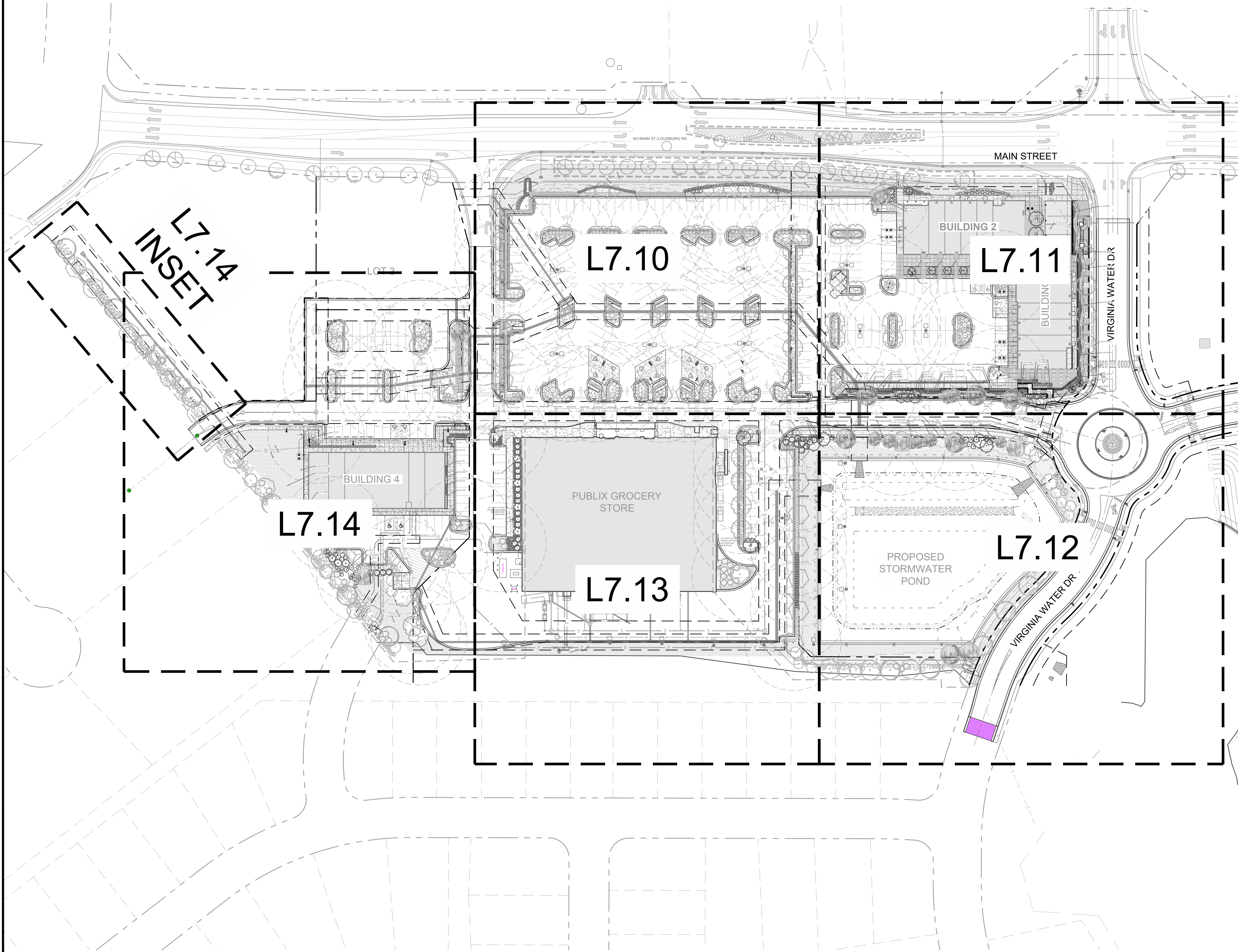
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| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L4.14**

Date: February 10, 2023

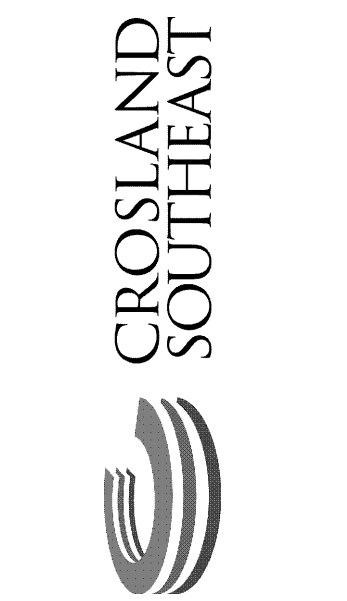
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| # | DATE      | DESCRIPTION                                   |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST   |
| 2 | 24-APR-23 | SD PERMIT REVIEW SUBMITTAL #1                 |
| 3 | 12-JUN-23 | SD PERMIT REVIEW COMMENTS                     |
| 4 | 29-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 5 | 19-AUG-23 | CART CORRAL DETAIL REVISED                    |
| 6 | 19-AUG-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #3 |



**OVERALL PLANTING PLAN**  
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|                  |         |
|------------------|---------|
| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L7.00**  
 Date: February 10, 2023

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| PLANT SCHEDULE OVERALL PLANT SCHEDULE |         |     |   |           |                       |              |             |                                     |  |
|---------------------------------------|---------|-----|---|-----------|-----------------------|--------------|-------------|-------------------------------------|--|
| EVERGREEN TREES                       | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | PT      | 7   | PINUS TAEDA LOBLOLLY PINE   | B&B       | ---                   | 40 TO 90 FT  | 20 TO 40 FT | FULL                                |  |
| PERIMETER BUFFER TREES                | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | JR BF   | 9   | JUGLANS REGIA ENGLISH WALNUT  | B&B       | 2.5" CAL.             | 50 TO 100 FT | 40 TO 60 FT | PERIMETER BUFFER                    |  |
|                                       | LC BF   | 10  | LIRIODENDRON CHINENSE X TULIPIFERA HYBRID TULIP TREE                  | B&B       | 2.5" CAL.             | 30 TO 50 FT  | 10 TO 20 FT | PERIMETER BUFFER                    |  |
|                                       | MG BF   | 8   | MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA                                | B&B       | 8'-10" HT             | 40 TO 60 FT  | 30 TO 50 FT | PERIMETER BUFFER STREETScape BUFFER |  |
|                                       | PT BF   | 9   | PINUS TAEDA LOBLOLLY PINE   | B&B       | 8'-10" HT             | 40 TO 90 FT  | 20 TO 40 FT | PERIMETER BUFFER                    |  |
|                                       | QA BF   | 7   | QUERCUS ALBA WHITE OAK  | B&B       | 2.5" CAL.             | 50 TO 100 FT | 50 TO 80 FT | PERIMETER BUFFER                    |  |
| PERIMETER BUFFER UNDERSTORY           | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | JV BF   | 19  | JUNIPERUS VIRGINIANA EASTERN RED CEDAR                                | B&B       | 8'-10" HT             | 30 TO 65 FT  | 8 TO 25 FT  | PERIMETER BUFFER STREETScape BUFFER |  |
| REPLACEMENT CANOPY TREE               | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | QPH-REP | 7   | QUERCUS PHELLOS WILLOW OAK  | B&B       | 2.5" CAL.             | 40 TO 75 FT  | 25 TO 50 FT |                                     |  |
|                                       | QS-REP  | 5   | QUERCUS SHUMARDII SHUMARD OAK   | B&B       | 2.5 IN                | 40 TO 60 FT  | 30 TO 40 FT |                                     |  |
| REPLACEMENT EVERGREEN TREE            | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | JV-REP  | 3   | JUNIPERUS VIRGINIANA EASTERN RED CEDAR                                | B&B       | 8'-10" HT             | 30 TO 65 FT  | 8 TO 25 FT  |                                     |  |
|                                       | PT-REP  | 5   | PINUS TAEDA LOBLOLLY PINE   | B&B       | 8'-10" HT             | 40 TO 90 FT  | 20 TO 40 FT |                                     |  |
| STREETSCAPE BUFFER TREES              | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | QP2ST   | 16  | QUERCUS PALUSTRIS PIN OAK   | B&B       | 2.5" CAL.             | 50 TO 70 FT  | 40 TO 60 FT | STREETSCAPE BUFFER VUA              |  |
| UNDERSTORY TREES                      | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | AA      | 9   | AMELANCHIER ARBOREA DOWNY SERVICEBERRY                                | B&B       | 8'-10" HT             | 15 TO 25 FT  | 15 TO 25 FT | FULL, MATCHED, 3 TRUNK MIN.         |  |
|                                       | CA2     | 7   | CARPINUS CAROLINIANA AMERICAN HORNBEAM                                | B&B       | 8'-10" HT             | 20 TO 35 FT  | 20 TO 35 FT | 3 TRUNK MIN                         |  |
|                                       | HVWH    | 5   | HAMMELIS VIRGINIANA COMMON WITCH HAZEL                                | CONTAINER | 6-8"                  | 15 TO 20 FT  | 15 TO 20 FT | FULL, LIMBED UP                     |  |
|                                       | MJ      | 6   | MAGNOLIA X 'JANE' JANE MAGNOLIA                                       | B&B       | 1.5 IN CAL, 8' MIN HT | 20 TO 25 FT  | 15 TO 20 FT |                                     |  |
|                                       | MXJZ    | 3   | MAGNOLIA X 'JUDY ZUK' JUDY ZUK MAGNOLIA                               | #15       | 1.5 IN CAL, 8' MIN HT | 20 TO 30 FT  | 6 TO 8 FT   | FULL, MATCHED                       |  |
| VUA TREES                             | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | NS VU   | 28  | NYSSA SYLVATICA TUPELO  | B&B       | 2.5" CAL, 10' MIN HT  | 30 TO 50 FT  | 20 TO 30 FT | FULL, VUA                           |  |
|                                       | QN VU   | 32  | QUERCUS NUTTALLII NUTTALL OAK   | B&B       | 2.5" CAL.             | 50 TO 80 FT  | 40 TO 60 FT | VUA                                 |  |
|                                       | QPH-VUA | 10  | QUERCUS PHELLOS WILLOW OAK  | B&B       | 2 IN                  | 40 TO 75 FT  | 25 TO 50 FT |                                     |  |
|                                       | QR VU   | 15  | QUERCUS RUBRA RED OAK   | B&B       | 2.5 IN                | 50 TO 70 FT  | 50 TO 70 FT | FULL                                |  |
| DECIDUOUS SHRUBS                      | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | CAAB    | 15  | CALLICARPA AMERICANA AMERICAN BEAUTYBERRY                             | CONT.     | 12-18"                | 3 TO 6 FT    | 3 TO 6 FT   | FULL                                |  |
|                                       | CA      | 58  | CALLICARPA AMERICANA AMERICAN BEAUTYBERRY                             | CONT.     | 24" HT                | 3 TO 6 FT    | 3 TO 6 FT   | VUA PERIMETER BUFFER                |  |
|                                       | CP      | 198 | CALLICARPA X 'NCCXZ TM PEARL GLAM BEAUTYBERRY                         | CONT.     | 24" HT                | 4 TO 5 FT    | 3 TO 4 FT   | VUA                                 |  |
|                                       | CC      | 104 | CARYOPTERIS X CLANDONENSIS BLUEBEARD                                  | CONT.     | 24" HT                | 2 TO 4 FT    | 2 TO 3 FT   | VUA PERIMETER BUFFER                |  |
|                                       | FI2     | 39  | FORSYTHIA X INTERMEDIA BORDER FORSYTHIA                               | CONT.     | 24" HT                | 4 TO 5 FT    | 4 TO 6 FT   | PERIMETER BUFFER                    |  |
|                                       | HF      | 3   | HYDRANGEA PANICULATA 'SMHPFL' FIRE LIGHT® PANICLE HYDRANGEA           | CONT.     | 18-24"                | 6 TO 8 FT    | 6 TO 8 FT   | FULL                                |  |
|                                       | HQ      | 39  | HYDRANGEA QUERCIFOLIA OAKLEAF HYDRANGEA                               | CONT.     | 24" HT                | 6 TO 8 FT    | 6 TO 8 FT   | VUA PERIMETER BUFFER                |  |
|                                       | HW      | 42  | HYDRANGEA QUERCIFOLIA 'PEE WEE' PEE WEE OAKLEAF HYDRANGEA             | CONT.     | 12-18"                | 3 TO 4 FT    | 2 TO 4 FT   |                                     |  |
|                                       | HQTH    | 27  | HYDRANGEA QUERCIFOLIA 'TURKEY HEAVEN' TURKEY HEAVEN OAKLEAF HYDRANGEA | CONT.     | 24" HT                | 8 TO 9 FT    | 8 TO 9 FT   | VUA PERIMETER BUFFER                |  |
|                                       | IVHG    | 7   | ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPICE             | CONT.     | 24" HT                | 4 TO 6 FT    | 4 TO 6 FT   | VUA                                 |  |
|                                       | IV      | 10  | ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPICE             | CONT.     | 24" HT                | 4 TO 6 FT    | 4 TO 6 FT   | VUA                                 |  |
|                                       | JNWX    | 29  | JASMINUM NUDIFLORUM WINTER JASMINE                                    | #3        | ---                   | 10 TO 15 FT  | 3 TO 6 FT   | FULL                                |  |
|                                       | RA VU   | 93  | RHUS AROMATICA 'GRO-LAW' GRO-LAW FRAGRANT SUMAC                       | ---       | 18-24"                | 2 FT         | 6 TO 8 FT   | FULL                                |  |
| EVERGREEN SHRUBS                      | CODE    | QTY | BOTANICAL / COMMON NAME   | CONTAINER | CALIPER               | HEIGHT       | SPREAD      | NOTES                               |  |
|                                       | AG      | 188 | ABELIA X GRANDIFLORA GLOSSY ABELIA                                    | CONT.     | 24" HT                | 4 TO 6 FT    | 4 TO 6 FT   | VUA                                 |  |
|                                       | AGML    | 18  | ABELIA X GRANDIFLORA 'HOPLES' MISS LEMON™ GLOSSY ABELIA               | CONT.     | 12-18"                | 3 FT         | 4 FT        |                                     |  |
|                                       | AXAE    | 158 | AZALEA X 'CONLEP' AUTUMN EMBERS® ENCORE® AZALEA                       | CONT.     | 24" HT                | 2 TO 5 FT    | 3 TO 5 FT   | FULL                                |  |
|                                       | BS      | 60  | BUXUS SEMPERVIRENS COMMON BOXWOOD                                     | CONT.     | 24" HT                | 5 TO 15 FT   | 5 TO 15 FT  | VUA                                 |  |
|                                       | DXCB    | 18  | DISTYLUM X 'BLDY02' CAST IN BRONZE® DISTYLUM                          | CONT.     | 24" HT                | 3 TO 4 FT    | 3 TO 4 FT   | VUA PERIMETER BUFFER                |  |
|                                       | IG2     | 110 | ILEX GLABRA INKBERRY HOLLY  | CONT.     | 24" HT                | 5 TO 8 FT    | 5 TO 8 FT   | VUA                                 |  |

| PLANT SCHEDULE          |       |           |  |           |         |             |               |           |                      |
|-------------------------|-------|-----------|--|-----------|---------|-------------|---------------|-----------|----------------------|
| EVERGREEN TREES         | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | IGSH2 | 13        | ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                             | CONT.     | ---     | 12-18"      | 5 FT          | 5 FT      | FULL                 |
|                         | IS    | 7         | ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                             | CONT.     | ---     | 24" HT      | 5 FT          | 5 FT      | VUA PERIMETER BUFFER |
|                         | WNA   | 78        | ILEX VOMITORIA 'NANA' DWARF YAUPON HOLLY                                   | CONT.     | ---     | 12-18"      | 3 TO 5 FT     | 3 TO 6 FT | FULL, VUA            |
|                         | JVGO2 | 192       | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN RED CEDAR                 | CONT.     | ---     | 24" HT      | 2 TO 3 FT     | 4 TO 6 FT | VUA                  |
|                         | LCDF  | 23        | LOROPETALUM CHINENSE 'DARK FIRE' DARK FIRE CHINESE FRINGE FLOWER           | CONT.     | ---     | 24" HT      | 5 FT          | 5 FT      | VUA                  |
|                         | VC VU | 14        | VIBURNUM TINUS 'COMPACTUM' COMPACT LAURUSTINUS                             | CONT.     | ---     | 24" HT      | 4 TO 6 FT     | 4 TO 6 FT | FULL, VUA            |
|                         | VTSB  | 23        | VIBURNUM TINUS 'SPRING BOUQUET' SPRING BOUQUET LAURUSTINUS                 | CONT.     | ---     | 36"         | 5 TO 6 FT     | 5 TO 6 FT | FULL                 |
|                         | VXP   | 12        | VIBURNUM X PRAGENSE PRAGUE VIBURNUM  | CONT.     | ---     | 18-24"      | 8 FT          | 8 FT      | FULL                 |
|                         | VP2   | 37        | VIBURNUM X PRAGENSE PRAGUE VIBURNUM  | CONT.     | ---     | 24" HT      | 8 FT          | 8 FT      | FULL                 |
| GRASSES                 | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | MC    | 4         | MUHLENBERGIA CAPILLARIS PINK MUHLY GRASS                                   | CONT.     | ---     | 12-18"      | 3 TO 4 FT     | 3 TO 4 FT |                      |
|                         | PN    | 140       | PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS                        | CONT.     | ---     | 24" HT      | 5 TO 6 FT     | 2 TO 3 FT | VUA                  |
|                         | PAKR  | 42        | PENNISETUM ALOPECUROIDES 'KARLEY ROSE' KARLEY ROSE FOUNTAIN GRASS          | CONT.     | ---     | 24" HT      | 2 TO 3 FT     | 3 TO 4 FT | VUA                  |
|                         | PARH  | 47        | PENNISETUM ALOPECUROIDES 'RED HEAD' RED HEAD FOUNTAIN GRASS                | CONT.     | ---     | 24" HT      | 2.5 TO 3.5 FT | 2 TO 3 FT | VUA                  |
|                         | SS    | 64        | SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM                                    | CONT.     | ---     | 12-18"      | 3 FT          | 2 TO 3 FT |                      |
| PERENNIALS              | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | ED    | 13        | EUTROCHUM DUBIUM JOE PYE WEED  | CONT.     | ---     | ---         | 3 TO 5 FT     | 2 TO 4 FT |                      |
| PERIMETER BUFFER SHRUBS | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | IGSH  | 95        | ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                             | CONT.     | ---     | 24" HT      | 5 FT          | 5 FT      | VUA PERIMETER BUFFER |
|                         | JVGO  | 134       | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN RED CEDAR                 | CONT.     | ---     | 24" HT      | 2 TO 3 FT     | 4 TO 6 FT | PERIMETER BUFFER VUA |
| VINES                   | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | PQ    | 1         | PARTHENOCISSUS QUINQUEFOLIA VIRGINIA CREEPER                               | #1        | ---     | 24" HT      | 20 TO 40 FT   | 2 TO 3 FT |                      |
| SHRUB AREAS             | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | SSBH  | 298       | SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA' BLUE HEAVENS LITTLE BLUESTEM           | #1        | ---     | 6-8"        | 3 FT          | 2 FT      | FULL                 |
| GROUND COVERS           | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | CACH  | 2,574 SF  | CAREX CHEROKEENSIS CHEROKEE SEDGE  | ---       | ---     | 18 PER TRAY | 6 TO 8 IN     | SPREADER  | FULL                 |
|                         | ZOY   | 68,776 SF | ZOYSIAGRASS SEED   | ---       | ---     | ---         | ---           | ---       | ---                  |
| PERENNIALS              | CODE  | QTY       | BOTANICAL / COMMON NAME  | CONTAINER | CALIPER | HEIGHT      | SPREAD        | NOTES     |                      |
|                         | AMLN  | 8         | ACHILLEA MILLEFOLIUM 'LITTLE MOONSHINE PP28179' LITTLE MOONSHINE YARROW    | CONT.     | ---     | 4-6"        | 12 TO 14"     | 14 TO 16" | FULL                 |
|                         | CMAS  | 73        | CENTAUREA MONTANA 'AMETHYST IN SNOW' AMETHYST IN SNOW PERENNIAL CORNFLOWER | #1        | ---     | 4-6"        | 12 IN         | SPREADER  | FULL                 |
|                         | EXCS  | 17        | ECHINACEA X 'CHEYENNE SPIRIT' CHEYENNE SPIRIT CONEFLOWER                   | CONT.     | ---     | 4-6"        | 15 TO 18"     | 15 TO 18" | FULL                 |
|                         | VP    | 594       | VERBENA CANADENSIS 'HOMESTEAD PURPLE' HOMESTEAD PURPLE VERBENA             | ---       | ---     | 12"         | 12 IN         | SPREADER  |                      |

**BUFFER TABLE**

**PERIMETER BUFFER CALCULATIONS:**

PERIMETER BUFFER 1: 10' TYPE 1 PERIMETER BUFFER  
 LENGTH: 175 FT  
**REQUIRED CANOPY TREES (3 PER 100 LF): 175 ÷ 100 \* 3 = 5.25 = 6 TREES REQUIRED**  
 PROPOSED: 6 TREES TOTAL  
**REQUIRED UNDERSTORY TREES (1 PER 100 LF): 175 ÷ 100 = 1.75 = 2 TREES REQUIRED**  
 PROPOSED: 2 TREES TOTAL  
**REQUIRED SHRUBS (50 PER 100 LF): 175 ÷ 100 \* 40 = 70 SHRUBS REQUIRED**  
 PROPOSED: 71 SHRUBS TOTAL

PERIMETER BUFFER 2: 15' TYPE 2 PERIMETER BUFFER  
 LENGTH: 110 FT  
**REQUIRED CANOPY TREES (3 PER 100 LF): 110 ÷ 100 \* 3 = 3.3 = 4 TREES REQUIRED**  
 PROPOSED: 4 TREES TOTAL  
**REQUIRED UNDERSTORY TREES (1 PER 100 LF): 110 ÷ 100 = 1.1 = 2 TREES REQUIRED**  
 PROPOSED: 2 TREES TOTAL  
**REQUIRED SHRUBS (50 PER 100 LF): 110 ÷ 100 \* 50 = 55 SHRUBS REQUIRED**  
 PROPOSED: 55 SHRUBS TOTAL

PERIMETER BUFFER 2: 15' TYPE 2 PERIMETER BUFFER  
 LENGTH: 338 FT  
**REQUIRED CANOPY TREES (3 PER 100 LF): 338 ÷ 100 \* 3 = 10.14 = 11 TREES REQUIRED**  
 PROPOSED: 11 TREES TOTAL  
**REQUIRED UNDERSTORY TREES (1 PER 100 LF): 110 ÷ 100 = 3.38 = 4 TREES REQUIRED**  
 PROPOSED: 6 TREES TOTAL  
**REQUIRED SHRUBS (50 PER 100 LF): 338 ÷ 100 \* 50 = 169 SHRUBS REQUIRED**  
 PROPOSED: 173 SHRUBS TOTAL

**STREET BUFFER CALCULATION:**

MAIN ST:  
 LENGTH: 680 FT  
**REQUIRED TREES (1 PER 40 LF): 680 ÷ 40 = 17 TREES REQUIRED**  
 PROPOSED: 17 STREET TREES + 9 EVERGREEN TREES = 26 TREES TOTAL \*\*\*

**VIRGINIA WATER DR.:**

LENGTH: 360 FT  
**REQUIRED TREES (1 PER 40 LF): 360 ÷ 40 = 9 TREES REQUIRED**  
 PROPOSED: 9 TREES TOTAL

**VEHICULAR USE AREA (VUA) CALCULATIONS:**

PARKING LOT 1:  
**REQUIRED CANOPY TREES IN TERMINAL ISLANDS (1 PER ISLAND): 18' \* 1 = 18 = 18 TREES REQUIRED**  
 PROPOSED: 18 TREES TOTAL  
**REQUIRED CANOPY TREES IN INTERIOR ISLANDS (1 PER ISLAND): 10' \* 1 = 10 = 10 TREES REQUIRED**  
 PROPOSED: 10 TREES TOTAL  
**REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 180 ÷ 30 = 6 = 6 TREES REQUIRED**  
 PROPOSED: 6 TREES TOTAL  
**REQUIRED UNDERSTORY TREES IN DIVIDER (2 PER 30 LF): 30 ÷ 30 \* 2 = 2 = 2 TREES REQUIRED**  
 PROPOSED: 2 TREES TOTAL  
**REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 733 ÷ 3 = 244.33 = 245 SHRUBS REQUIRED**  
 PROPOSED: 248 SHRUBS TOTAL

**PARKING LOT 2:**

**REQUIRED CANOPY TREES IN TERMINAL ISLANDS (1 PER ISLAND): 7' \* 1 = 7 TREES REQUIRED**  
 PROPOSED: 7 TREES TOTAL  
**REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 206 ÷ 3 = 68.67 = 69 SHRUBS REQUIRED**  
 PROPOSED: 95 SHRUBS TOTAL

**PARKING LOT 3:**

**REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 157 ÷ 30 = 5.23 = 6 TREES REQUIRED**  
 PROPOSED: 6 TREES TOTAL  
**REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 278 ÷ 3 = 92.67 = 93 SHRUBS REQUIRED**  
 PROPOSED: 94 SHRUBS TOTAL

**PARKING LOT 4:**

**REQUIRED CANOPY TREES IN TERMINAL ISLANDS (2 PER ISLAND): 4' \* 2 = 8 TREES REQUIRED**  
 PROPOSED: 8 TREES TOTAL  
**REQUIRED CANOPY TREES IN INTERIOR ISLANDS (2 PER ISLAND): 1' \* 2 = 2 TREES REQUIRED**  
 PROPOSED: 2 TREES TOTAL  
**REQUIRED SHRUBS IN PARKING PERIMETER BUFFER (1 PER 3 LF): 100 ÷ 3 = 33.33 = 33 SHRUBS REQUIRED**  
 PROPOSED: 33 SHRUBS TOTAL  
**REQUIRED CANOPY TREES IN DIVIDER (1 PER 30 LF): 100 ÷ 30 = 3.33 = 3 TREES REQUIRED**  
 PROPOSED: 3 TREES TOTAL

**REPLACEMENT TREES REQUIRED ON WALLBROOK SITE: 12 DECIDUOUS + 8 EVERGREEN**  
**PROPOSED REPLACEMENT TREES: 12 DECIDUOUS + 8 EVERGREEN**

**NOTE:**

- THE PLANTING SCHEDULE DOES NOT INCLUDE THE STREET TREES ON MAIN ST WHICH IS PART OF THE L4241 STREETSCAPE PROJECT. SEE STANTEC LANDSCAPE PLAN L4 FOR STREET TREE SPECIES. A TOTAL OF 26 TREES SHALL BE PROVIDED ALONG MAIN ST. - 16 TREES FROM STANTEC AND 9 FROM THIS PROJECT.
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- SEE SOIL DETAILS AND LANDSCAPE SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING SOIL AMENDMENTS, SOIL DEPTHS, SOIL TYPES AND ADDITIONAL INFORMATION.

**- Final Drawing -**  
**Issued for Permit**

**Review Purposes Only**

7 12-SEP-23 REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3  
 6 18-JUL-23 CAROLINA STATE UNIVERSITY  
 5 18-JUL-23 CAROLINA STATE UNIVERSITY  
 4 25-JUL-23 REVISED PER REVIEW COMMENTS  
 3 12-JUN-23 REVISED PER REVIEW COMMENTS  
 2 24-APR-23 SDP PERMIT REVIEW SUBMITTAL #1  
 1 10-FEB-23 SHIFTER BUILDING LOCATION PER OWNER REQUEST  
 0 10-FEB-23 SD PERMIT REVIEW SUBMITTAL #0

DATE

REVISIONS:



**ENHANCED PLANTING PLAN**

**PUBLIX AT WALLBROOK**

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Rolesville, Wake County, North Carolina

NC License: PL1199

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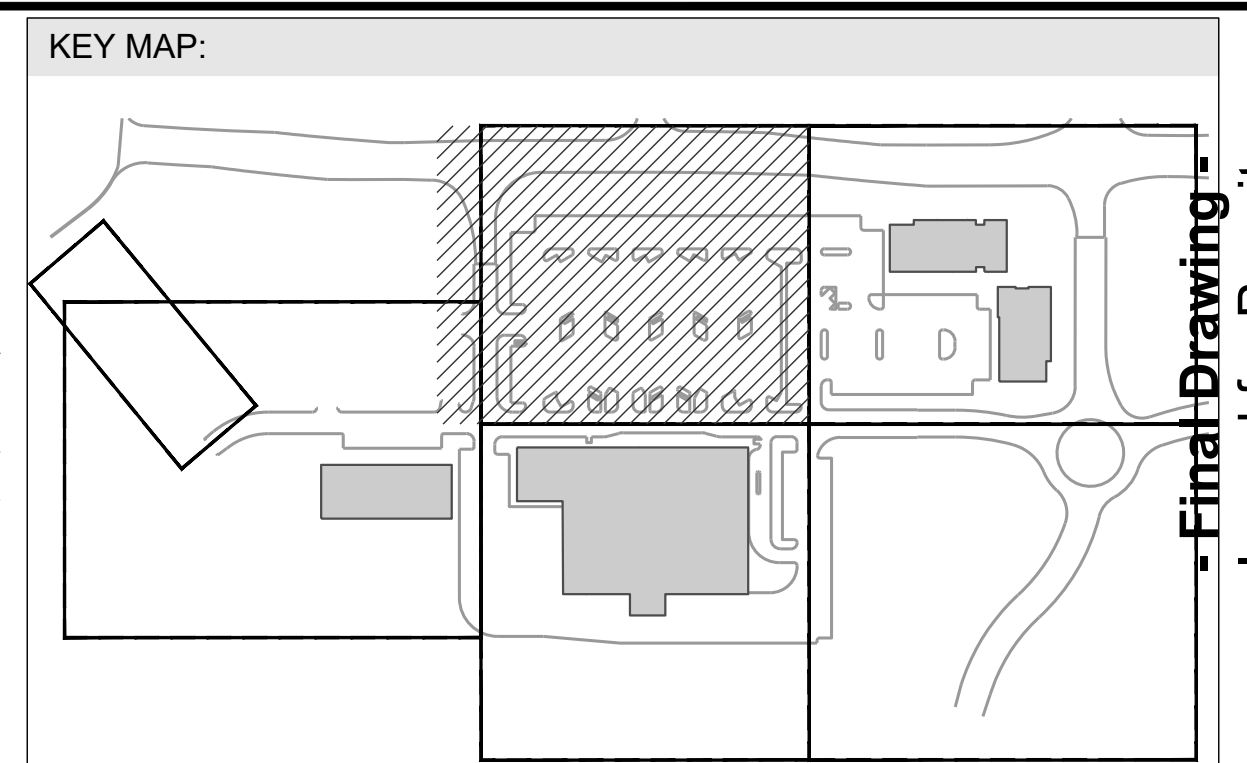
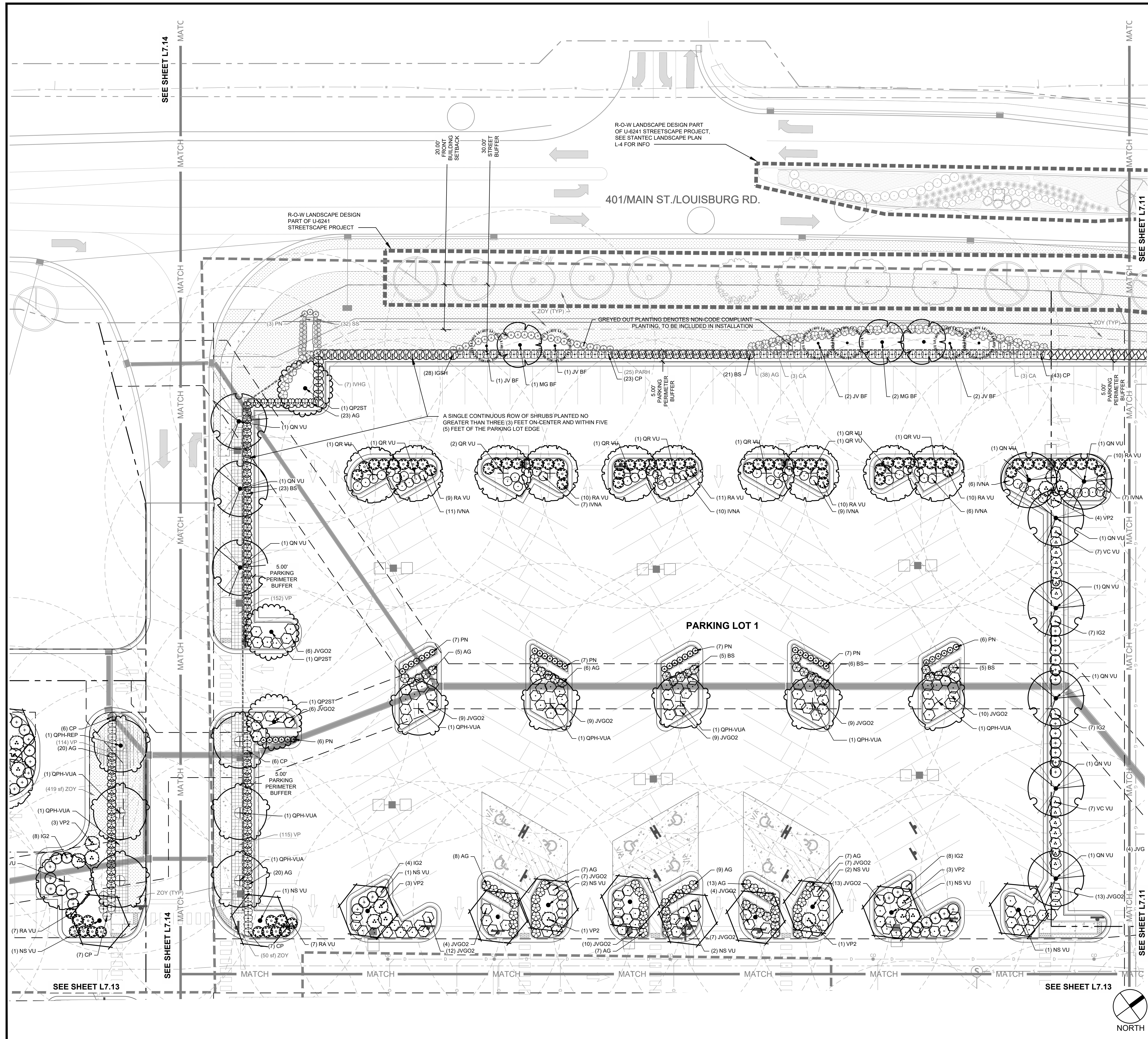
9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

L7.01

Date: February 10, 2023





**LANDSCAPE LEGEND**

- PROPERTY LINE / ROW LINE
- SETBACK LINE
- LIMIT OF WORK (LANDSCAPE)
- 30' WIDE STREET BUFFER
- 10' WIDE TYPE 1 BUFFER
- 15' WIDE TYPE 2 BUFFER
- 5' WIDE PARKING PERIMETER BUFFER
- U6241 PROJECT PLANTING DESIGN SCOPE
- TREE PROTECTION FENCE
- EXISTING VEGETATION

**PLANT SCHEDULE L7.10**

| PERIMETER BUFFER TREES | CODE      | QTY   | BOTANICAL / COMMON NAME |
|------------------------|-----------|---|-------------------------|
| (1) MG BF              | 3         | MAGNOLIA GRANDIFLORA<br>SOUTHERN MAGNOLIA                         |                         |
| (1) JV BF              | 8         | JUNIPERUS VIRGINIANA<br>EASTERN REDCEDAR                          |                         |
| (1) QP2ST              | 3         | QUERCUS PALUSTRIS<br>PIN OAK                                      |                         |
| (1) QN VU              | 10        | NYSSA SYLVATICA<br>TUPELO   |                         |
| (1) QN VU              | 10        | QUERCUS NUTTALLII<br>NUTTALL OAK                                  |                         |
| (1) QPH-VUA            | 8         | QUERCUS PHELLOS<br>WILLOW OAK                                     |                         |
| (1) QR VU              | 10        | QUERCUS RUBRA<br>RED OAK  |                         |
| (1) VC VU              | 7         | QUERCUS VARIANS<br>WHITE OAK                                      |                         |
| (1) IG2                | 26        | ILEX GLABRA<br>INKBERRY HOLLY                                     |                         |
| (1) VNA                | 56        | ILEX VOMITORIA 'NANA'<br>DWARF YAWFON HOLLY                       |                         |
| (1) JVG02              | 135       | JUNIPERUS VIRGINIANA 'GREY OWL'<br>GREY OWL EASTERN REDCEDAR      |                         |
| (1) VC VU              | 14        | VIBURNUM TINUS 'COMPACTUM'<br>COMPACT LAURUSTINUS                 |                         |
| (1) VP2                | 12        | VIBURNUM X PRAGENSE<br>PRAGUE VIBURNUM                            |                         |
| (1) PN                 | 43        | PANICUM VIRGATUM 'NORTHWIND'<br>NORTHWIND SWITCH GRASS            |                         |
| (1) PARH               | 25        | Pennisetum alopecuroides 'RED HEAD'<br>RED HEAD FOUNTAIN GRASS    |                         |
| (1) SS                 | 32        | SCHIZACHYRIUM SCOPARIUM<br>LITTLE BLUESTEM                        |                         |
| (1) IGSH               | 28        | ILEX GLABRA 'SHAMROCK'<br>SHAMROCK INKBERRY HOLLY                 |                         |
| (1) JVG0               | 15        | JUNIPERUS VIRGINIANA 'GREY OWL'<br>GREY OWL EASTERN REDCEDAR      |                         |
| (1) ZOY                | 17.467 SF | ZOYSIA GRASS SEED   |                         |
| (1) VP                 | 267       | VERBENA CANADENSIS 'HOMESTEAD PURPLE'<br>HOMESTEAD PURPLE VERBENA |                         |

**NOTE:**

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**Revisions for Permit**

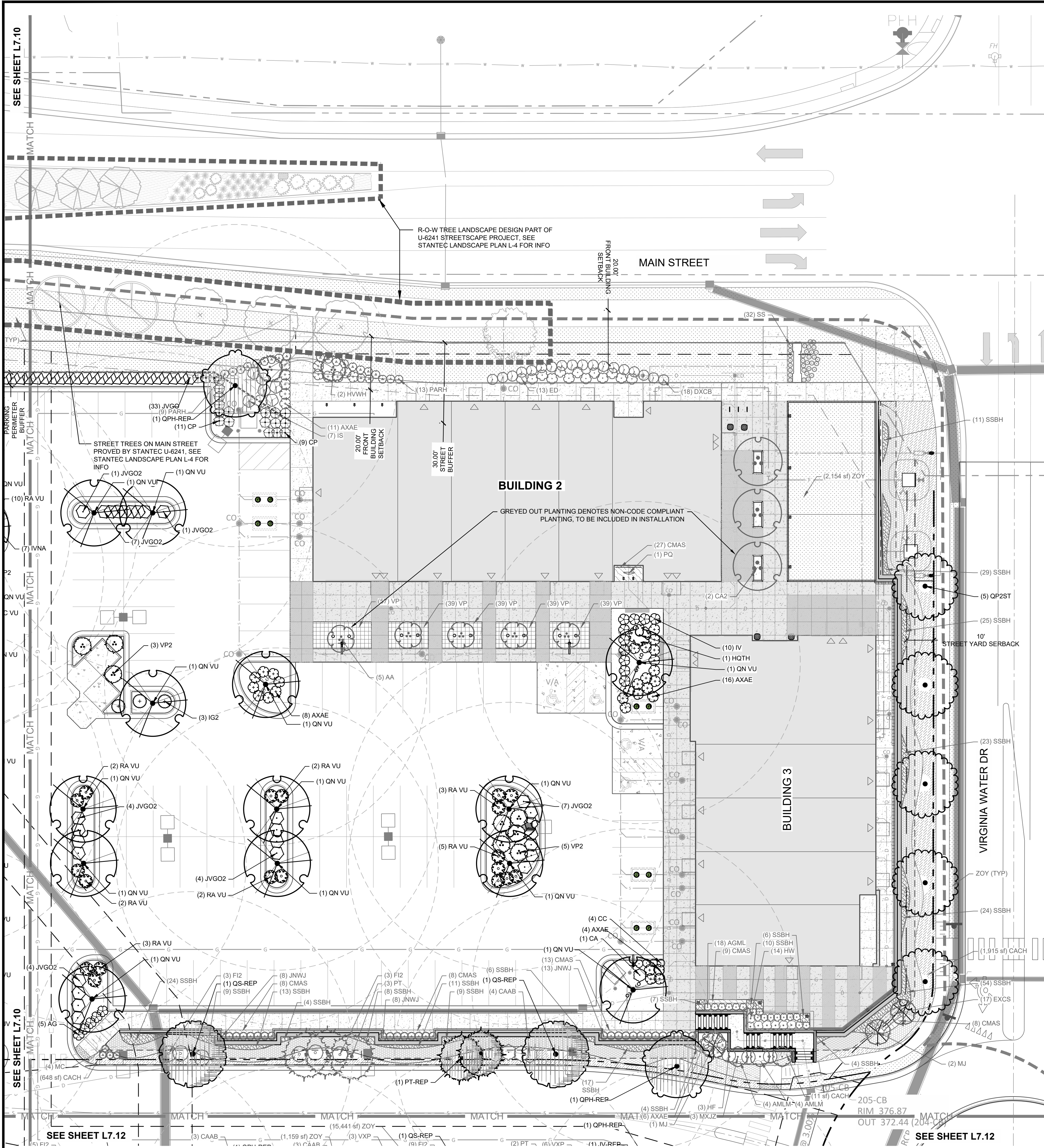
| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST    |
| 2 | 24-APR-23 | SDP PERMIT REVIEW COMMENTS                     |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW COMMENTS                     |
| 4 | 25-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 5 | 18-JUL-23 | CART CORRAL DESIGN REVISED                     |
| 6 | 18-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |



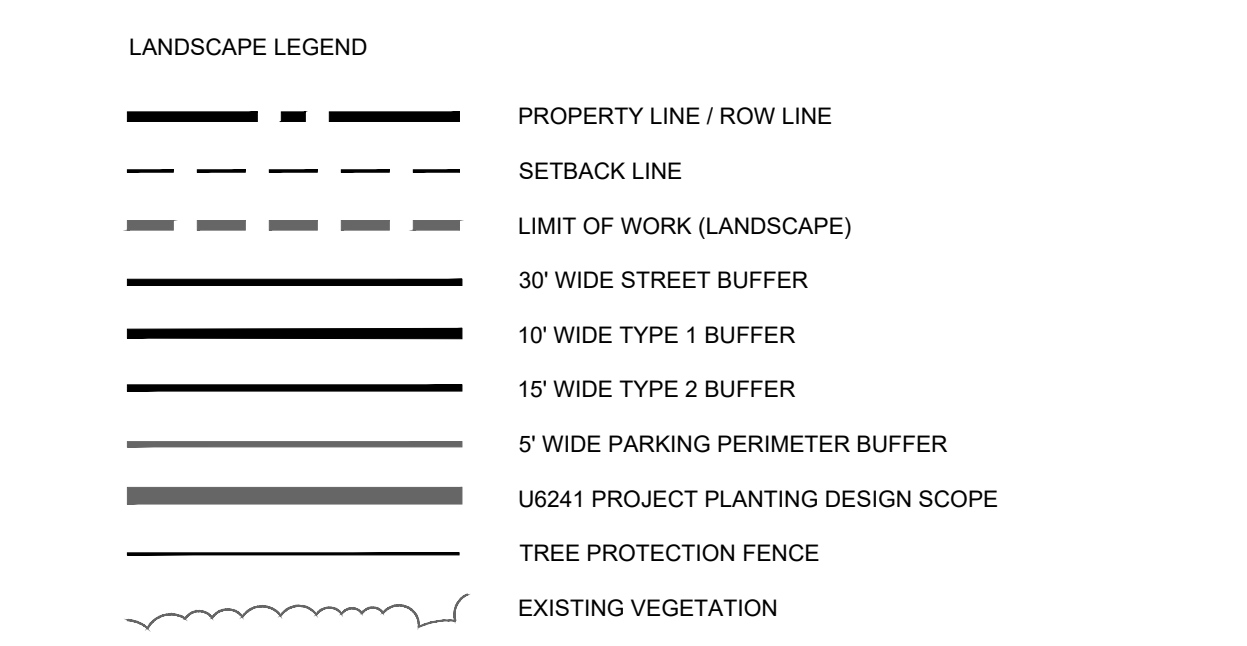
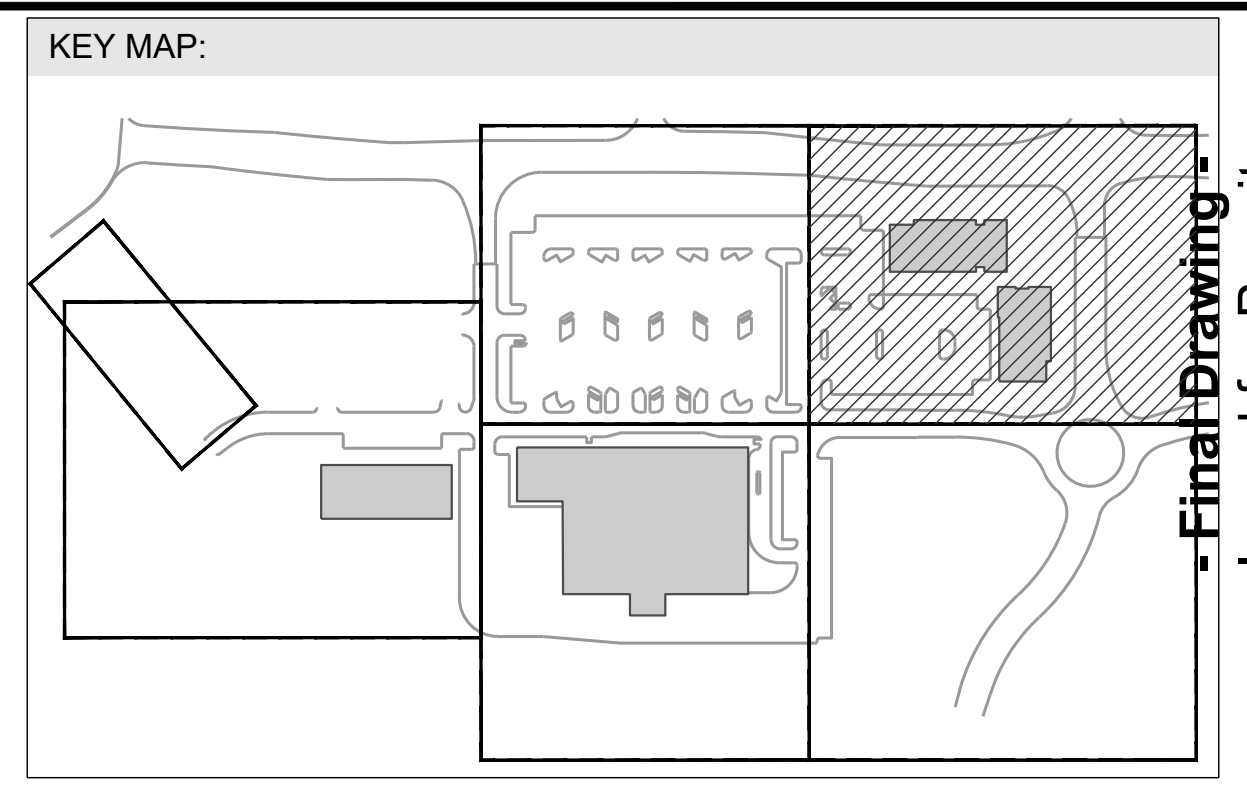
**ENHANCED PLANTING PLAN**  
**PUBLIX AT WALLBROOK**  
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NC License: P11159  
**ARK CONSULTING GROUP PLLC**  
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 2755-B Charles Blvd.  
 #250 | Lenoir, NC 27558  
 (757) 558-0888  
 www.arkconsultinggroup.com

9/20/2023  
 Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:  
**L7.10**  
 Date: February 10, 2023



| PLANT SCHEDULE L7.11 |          |  |  |
|----------------------|----------|--|--|
| CODE                 | QTY      | BOTANICAL / COMMON NAME  |  |
| PT                   | 3        | PINUS TAEDA LOBLOLLY PINE  |  |
| QPH-REP              | 2        | QUERCUS PHELLOS WILLOW OAK   |  |
| QS-REP               | 2        | QUERCUS SHUMARDII SHUMARD OAK  |  |
| PT-REP               | 2        | PINUS TAEDA LOBLOLLY PINE  |  |
| QP2ST                | 5        | QUERCUS PALUSTRIS PIN OAK  |  |
| AA                   | 5        | AMELANCHIER ARBOREA DOWNY SERVICEBERRY                                     |  |
| CA2                  | 3        | CARPINUS CAROLINIANA AMERICAN HORNBEAM                                     |  |
| HWH                  | 2        | HAMMELIS VIRGINIANA COMMON WITCH HAZEL                                     |  |
| MJ                   | 3        | MAGNOLIA X 'JANE' JANE MAGNOLIA  |  |
| MXJZ                 | 3        | MAGNOLIA X 'JUDY ZUK' JUDY ZUK MAGNOLIA                                    |  |
| QN VU                | 13       | QUERCUS NUTTALLII NUTTALL OAK  |  |
| CAAB                 | 4        | CALLICARPA AMERICANA AMERICAN BEAUTYBERRY                                  |  |
| CA                   | 1        | CALLICARPA AMERICANA AMERICAN BEAUTYBERRY                                  |  |
| CP                   | 20       | CALLICARPA X 'NOCKY' TM PEARL GLAM BEAUTYBERRY                             |  |
| CC                   | 4        | CARYOPTERIS X CLANDONENSIS BLUEBEARD                                       |  |
| FZ                   | 6        | FORSYTHIA X INTERMEDIA BORDER FORSYTHIA                                    |  |
| HF                   | 3        | HYDRANGEA PANICULATA 'SMIRPFL' FIRE LIGHT PANICLE HYDRANGEA                |  |
| HW                   | 14       | HYDRANGEA QUERCIFOLIA 'FREE WEE' FREE WEE OAKLEAF HYDRANGEA                |  |
| HQTH                 | 1        | HYDRANGEA QUERCIFOLIA 'TURKEY HEAVEN' TURKEY HEAVEN OAKLEAF HYDRANGEA      |  |
| IV                   | 10       | ITEA VIRGINICA 'HENRY'S GARNET' HENRY'S GARNET SWEETSPIRE                  |  |
| JNWJ                 | 29       | JASMINUM NUDIFLORUM WINTER JASMINE   |  |
| RA VU                | 19       | RHUS AROMATICA 'GRO LOW' GRO LOW FRAGRANT SUMAC                            |  |
| AG                   | 5        | ABELIA X GRANDIFLORA GLOSSY ABELIA   |  |
| AGML                 | 18       | ABELIA X GRANDIFLORA 'HOPLEYS' MISS LEMON™ GLOSSY ABELIA                   |  |
| AXAE                 | 45       | AZALEA X 'CONLEP' AUTUMN EMBERS® ENCORE® AZALEA                            |  |
| DXCB                 | 18       | DISTYLIUM X 'BLDY02' CAST IN BRONZE™ DISTYLIUM                             |  |
| IG2                  | 3        | LEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                              |  |
| IS                   | 7        | LEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                              |  |
| JVGO2                | 28       | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR                  |  |
| VP2                  | 8        | VIBURNUM X PRAGENSE PRAGUE VIBURNUM  |  |
| MC                   | 4        | MUHLENBERGIA CAPILLARIS PINK MILLY GRASS                                   |  |
| PARH                 | 22       | PENNISETUM ALOPECUROIDES 'RED HEAD' RED HEAD FOUNTAIN GRASS                |  |
| SS                   | 32       | SCHIZACHYRIUM SCOPARIUM LITTLE BLUESTEM                                    |  |
| ED                   | 13       | EUTROCHUM DUBIUM JOE PYLE WILD   |  |
| JVGO                 | 18       | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR                  |  |
| PQ                   | 1        | PARTHENOCISSUS QUINQUEFOLIA VIRGINIA CREEPER                               |  |
| SSBH                 | 298      | SCHIZACHYRIUM SCOPARIUM 'MINNBLUEA' BLUE HEAVEN™ LITTLE BLUESTEM           |  |
| CACH                 | 2,574 SF | CAREX CHEROKEENSIS CHEROKEE SEDGE  |  |
| ZOY                  | 7,741 SF | ZOYSYAGRASS SEED   |  |
| AMLM                 | 8        | ACHILLEA MILLEFOLIUM LITTLE MOONSHINE PP2817 LITTLE MOONSHINE YARROW       |  |
| CMAS                 | 73       | CENTAUREA MONTANA 'AMETHYST IN SNOW' AMETHYST IN SNOW PERENNIAL CORNFLOWER |  |
| EXCS                 | 17       | ECHINACEA X 'CHEYENNE SPIRIT' CHEYENNE SPIRIT CONEFLOWER                   |  |
| VP                   | 213      | VERBENA CANADENSIS 'HOMESTEAD PURPLE' HOMESTEAD PURPLE VERBENA             |  |



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Issued for Permit

Review Purposes Only

| NO. | DATE      | DESCRIPTION                                   |
|-----|-----------|---|
| 1   | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST   |
| 2   | 24-APR-23 | SD PERMIT REVIEW COMMENTS                     |
| 3   | 12-JUN-23 | SD PERMIT REVIEW COMMENTS                     |
| 4   | 29-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 5   | 18-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 6   | 18-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 7   | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #3 |



**ENHANCED PLANTING PLAN**

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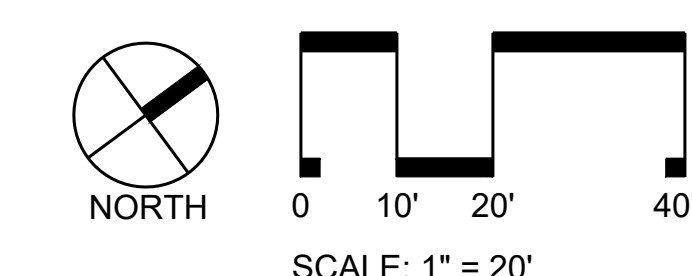
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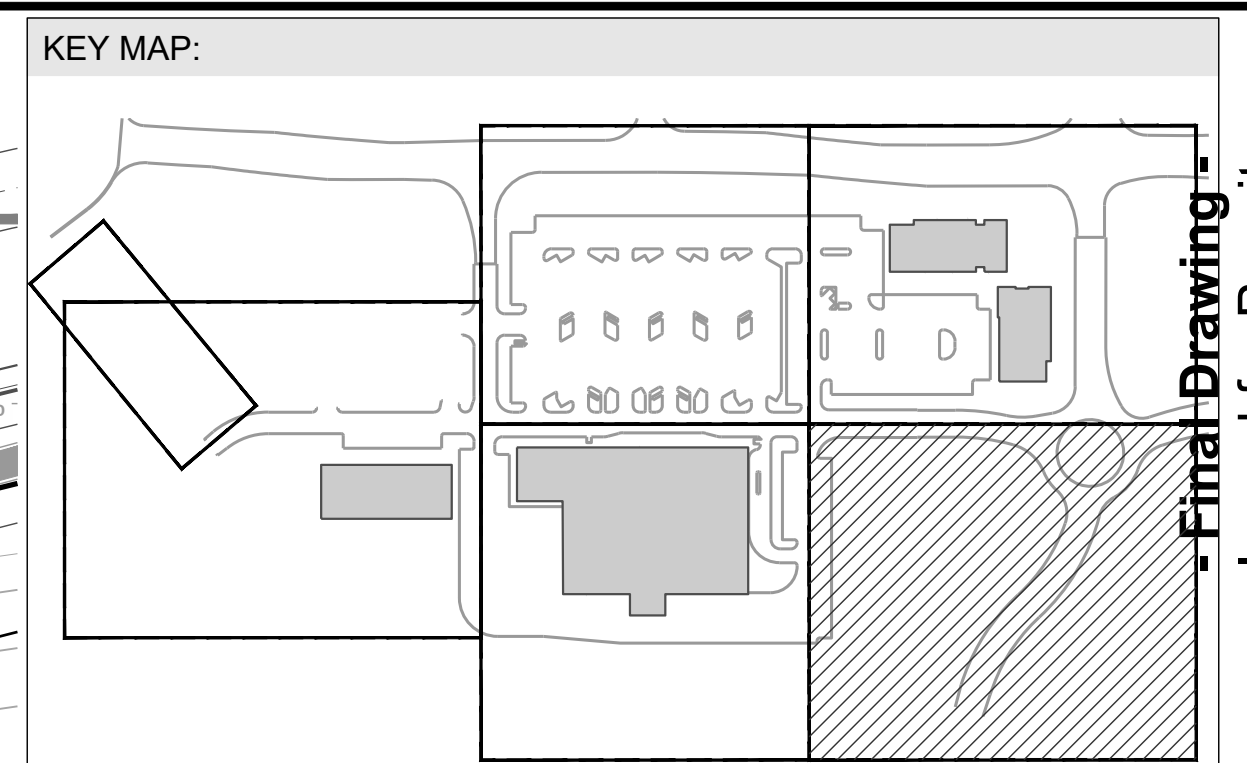
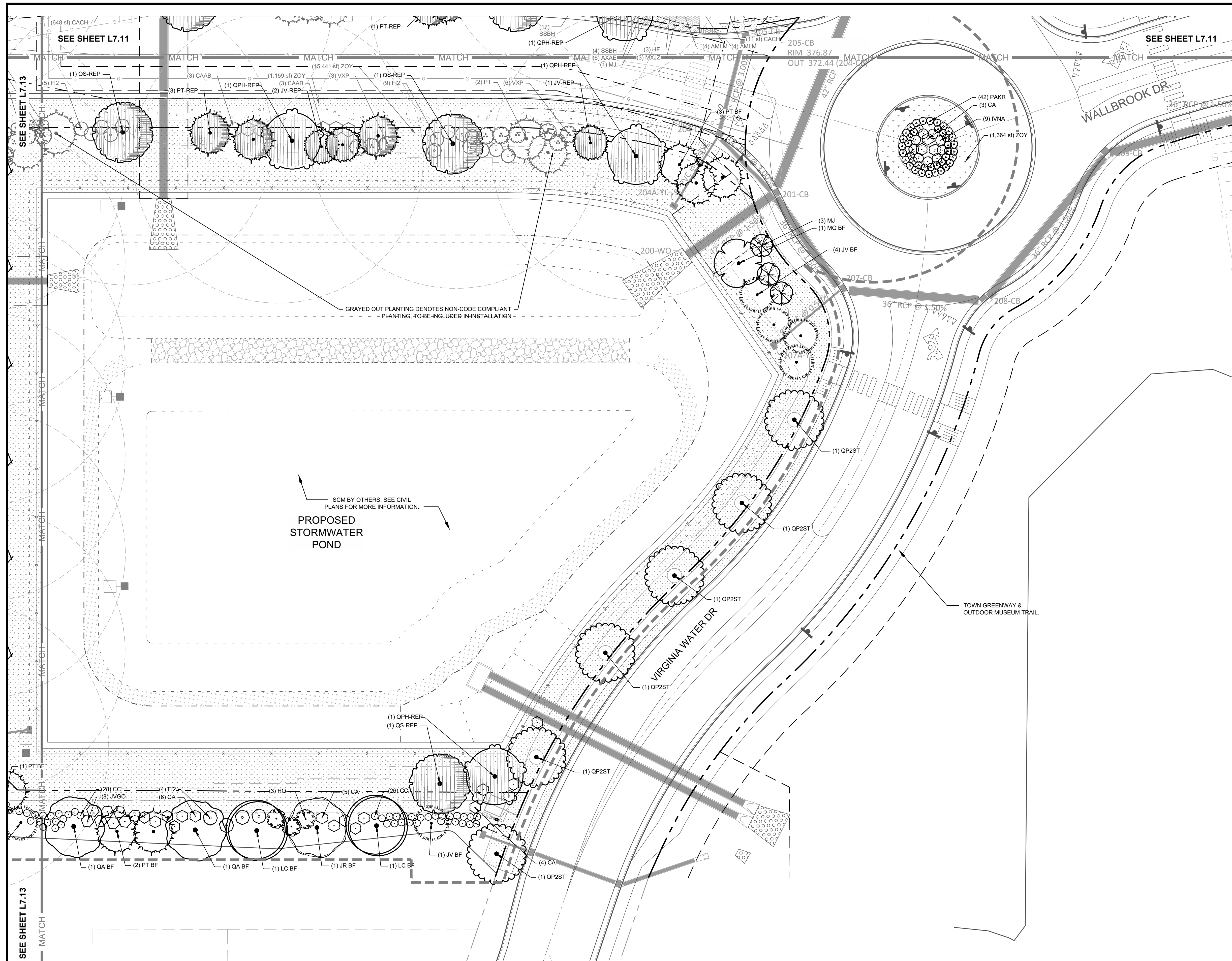
9/20/2023

Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:

**L7.11**

Date: February 10, 2023





**LANDSCAPE LEGEND**

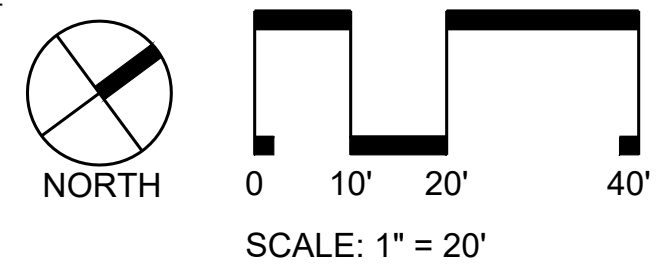
|  |                                     |
|--|-------------------------------------|
|  | PROPERTY LINE / ROW LINE            |
|  | SETBACK LINE                        |
|  | LIMIT OF WORK (LANDSCAPE)           |
|  | 30' WIDE STREET BUFFER              |
|  | 10' WIDE TYPE 1 BUFFER              |
|  | 15' WIDE TYPE 2 BUFFER              |
|  | 5' WIDE PARKING PERIMETER BUFFER    |
|  | U6241 PROJECT PLANTING DESIGN SCOPE |
|  | TREE PROTECTION FENCE               |
|  | EXISTING VEGETATION                 |

**PLANT SCHEDULE L7.12**

| EVERGREEN TREES             | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|-----------------------------|---------|-----------|--|
|                             | PT      | 3         | PINUS TAEDA<br>LOBLOLLY PINE   |
| PERIMETER BUFFER TREES      | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | JR BF   | 1         | JUGLANS REGIA<br>ENGLISH WALNUT                                      |
|                             | LC BF   | 2         | LIRIODENDRON CHINENSE X TULIPIFERA<br>HYBRID TULIP TREE              |
|                             | MG BF   | 1         | MAGNOLIA GRANDIFLORA<br>SOUTHERN MAGNOLIA                            |
|                             | PT BF   | 5         | PINUS TAEDA<br>LOBLOLLY PINE   |
|                             | QA BF   | 2         | QUERCUS ALBA<br>WHITE OAK  |
| PERIMETER BUFFER UNDERSTORY | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | JV BF   | 5         | JUNIPERUS VIRGINIANA<br>EASTERN REDCEDAR                             |
| REPLACEMENT CANOPY TREE     | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | QPH-REP | 3         | QUERCUS PHELLOS<br>WILLOW OAK  |
|                             | QS-REP  | 3         | QUERCUS SHUMARDII<br>SHUMARD OAK                                     |
| REPLACEMENT EVERGREEN TREE  | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | JV-REP  | 3         | JUNIPERUS VIRGINIANA<br>EASTERN REDCEDAR                             |
|                             | PT-REP  | 3         | PINUS TAEDA<br>LOBLOLLY PINE   |
| STREETSCAPE BUFFER TREES    | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | QP2ST   | 6         | QUERCUS PALUSTRIS<br>PIN OAK   |
| UNDERSTORY TREES            | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | MJ      | 3         | MAGNOLIA X 'JANE'<br>JANE MAGNOLIA                                   |
| DECIDUOUS SHRUBS            | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | CAAB    | 6         | CALLICARPA AMERICANA<br>AMERICAN BEAUTYBERRY                         |
|                             | CA      | 19        | CALLICARPA AMERICANA<br>AMERICAN BEAUTYBERRY                         |
|                             | CC      | 38        | CARYOPTERIS X CLANDONENSIS<br>BLUEBEARD                              |
|                             | F2      | 18        | FORSYTHIA X INTERMEDIA<br>BORDER FORSYTHIA                           |
|                             | HQ      | 3         | HYDRANGEA QUERCIFOLIA<br>OAKLEAF HYDRANGEA                           |
| EVERGREEN SHRUBS            | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | AXAE    | 1         | AZALEA X 'CONLEY'<br>AUTUMN EMBERS® AZALEA                           |
|                             | IVNA    | 9         | ILEX VOMITORIA 'NANA'<br>DWARF YAUPON HOLLY                          |
|                             | VXP     | 10        | VIBURNUM X PRAGENSE<br>PRAGUE VIBURNUM                               |
| GRASSES                     | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | PAKR    | 42        | PENNISETUM ALOPECUROIDES 'KARLEY ROSE'<br>KARLEY ROSE FOUNTAIN GRASS |
| PERIMETER BUFFER SHRUBS     | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | JVGO    | 8         | JUNIPERUS VIRGINIANA 'GREY OWL'<br>GREY OWL EASTERN REDCEDAR         |
| GROUND COVERS               | CODE    | QTY       | BOTANICAL / COMMON NAME  |
|                             | ZOY     | 21,569 SF | ZOYSIAGRASS SEED   |

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**REVISIONS:**

| # | DATE      | DESCRIPTION                                  |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIFTER BUILDING LOCATION PER OWNER REQUEST  |
| 2 | 24-APR-23 | SDP PERMIT REVIEW COMMENTS                   |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW COMMENTS                   |
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9/20/2023  
 Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:  
**L7.12**  
 Date: February 10, 2023

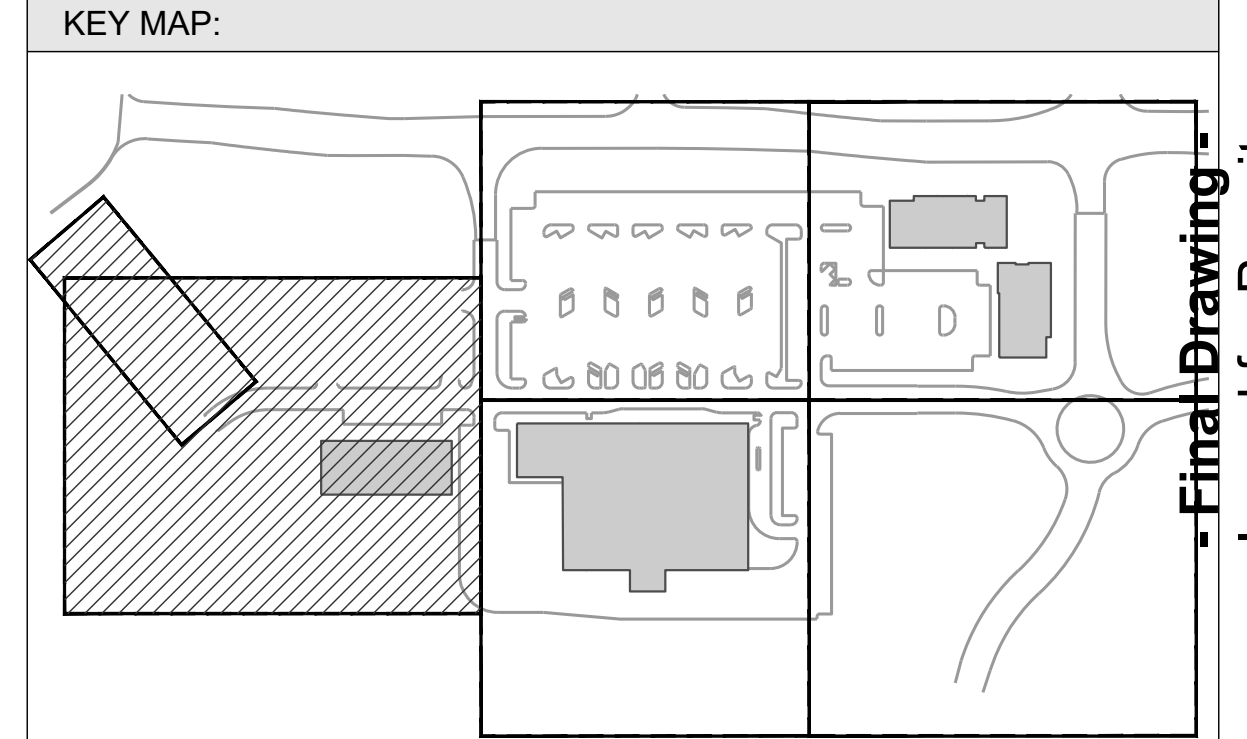
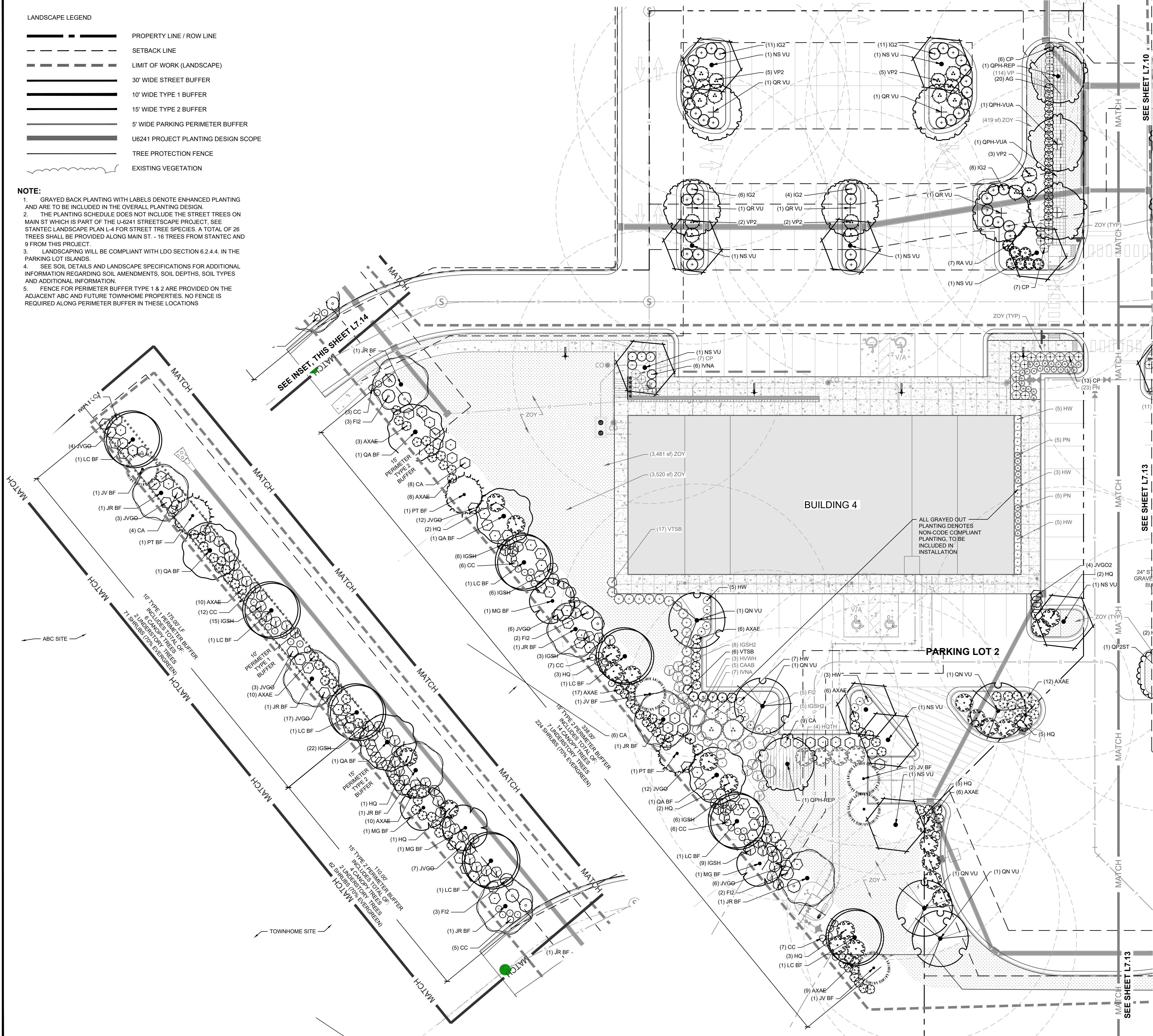


LANDSCAPE LEGEND

|  |                                     |
|--|-------------------------------------|
|  | PROPERTY LINE / ROW LINE            |
|  | SETBACK LINE                        |
|  | LIMIT OF WORK (LANDSCAPE)           |
|  | 30' WIDE STREET BUFFER              |
|  | 10' WIDE TYPE 1 BUFFER              |
|  | 15' WIDE TYPE 2 BUFFER              |
|  | 5' WIDE PARKING PERIMETER BUFFER    |
|  | U6241 PROJECT PLANTING DESIGN SCOPE |
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- FENCE FOR PERIMETER BUFFER TYPE 1 & 2 ARE PROVIDED ON THE ADJACENT ABC AND FUTURE TOWNHOME PROPERTIES. NO FENCE IS REQUIRED ALONG PERIMETER BUFFER IN THESE LOCATIONS.

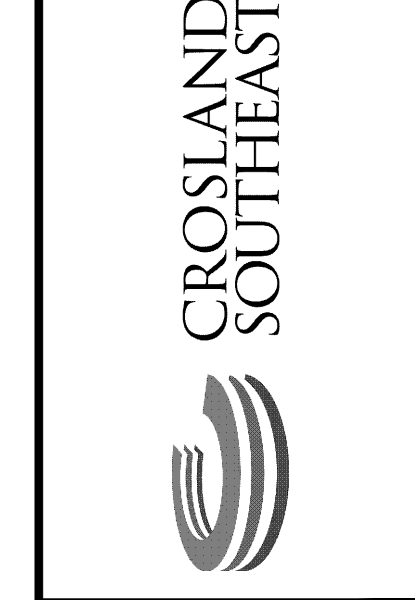


**PLANT SCHEDULE L 7.14**

| PERIMETER BUFFER TREES | CODE    | QTY       | BOTANICAL / COMMON NAME   |
|------------------------|---------|-----------|---|
|                        | JR BF   | 8         | JUGLANS REGIA ENGLISH WALNUT  |
|                        | LC BF   | 8         | LINDODENDRON CHINENSE X TULIPFERA HYBRID TULIP TREE                   |
|                        | MG BF   | 4         | MAGNOLIA GRANDIFLORA SOUTHERN MAGNOLIA                                |
|                        | PT BF   | 3         | PNUS TAEDA LOBLOLY PINE   |
|                        | QA BF   | 5         | QUERCUS ALBA WHITE OAK  |
|                        | JV BF   | 5         | JUNIPERUS VIRGINIANA EASTERN REDCEDAR                                 |
|                        | OPH-REP | 2         | QUERCUS PHELLOS WILLOW OAK  |
|                        | OPH-VUA | 3         | QUERCUS PHELLOS WILLOW OAK  |
|                        | HVVH    | 3         | HAMMELIS VIRGINIANA COMMON WITCH HAZEL                                |
|                        | NS VU   | 10        | NYSSA SYLVATICA TUPELO  |
|                        | QN VU   | 5         | QUERCUS NUTTALLII NUTTALL OAK   |
|                        | OPH-VUA | 2         | QUERCUS PHELLOS WILLOW OAK  |
|                        | QR VU   | 5         | QUERCUS RUBRA RED OAK   |
|                        | CAAB    | 5         | CALICARPA AMERICANA AMERICAN BEAUTYBERRY                              |
|                        | CA      | 32        | CALICARPA AMERICANA AMERICAN BEAUTYBERRY                              |
|                        | CP      | 33        | CALICARPA X 'NCCX' TM PEARL GLAM BEAUTYBERRY                          |
|                        | CC      | 46        | CARYOPTERIS X CLAUDONENSIS BLUEBERRY                                  |
|                        | FI2     | 15        | FORSYTHIA X INTERMEDIA BORDER FORSYTHIA                               |
|                        | HQ      | 24        | HYDRANGEA QUERCIFOLIA OAKLEAF HYDRANGEA                               |
|                        | HW      | 28        | HYDRANGEA QUERCIFOLIA 'PEE WEE' PEE WEE OAKLEAF HYDRANGEA             |
|                        | HOTH    | 4         | HYDRANGEA QUERCIFOLIA 'TURKEY HEAVEN' TURKEY HEAVEN OAKLEAF HYDRANGEA |
|                        | RA VU   | 7         | RHUS AROMATICA 'GRO-LOW' GRO-LOW FRAGRANT SUMAC                       |
|                        | AG      | 20        | ABELIA X GRANDIFLORA GLOSSY ABELIA                                    |
|                        | AXAE    | 97        | AZALEA X 'CONLEP' AUTUMN EMBERSIS ENCORSE AZALEA                      |
|                        | IG2     | 40        | ILEX GLABRA INKBERRY HOLLY  |
|                        | IGSH2   | 13        | ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                        |
|                        | IVNA    | 13        | ILEX VONTORIA 'NANA' DWARF YALPON HOLLY                               |
|                        | JVGO2   | 4         | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR             |
|                        | VTSB    | 23        | VIBURNUM TINUS 'SPRING BOUQUET' SPRING BOUQUET LAURUSTINUS            |
|                        | VP2     | 17        | VIBURNUM X PRAGENSE PRAGUE VIBURNUM                                   |
|                        | PN      | 33        | PANICUM VIRGATUM 'NORTHWIND' NORTHWIND SWITCH GRASS                   |
|                        | IGSH    | 67        | ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY                        |
|                        | JVSO    | 70        | JUNIPERUS VIRGINIANA 'GREY OWL' GREY OWL EASTERN REDCEDAR             |
|                        | ZOY     | 11,858 SF | ZOYSIAGRASS SEED  |
|                        | VP      | 114       | VERBENA CANADENSIS 'HOMESTEAD PURPLE' HOMESTEAD PURPLE VERBENA        |

**REVISIONS:**

| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | SDP PERMIT REVIEW COMMENTS                     |
| 2 | 24-APR-23 | SDP PERMIT REVIEW COMMENTS                     |
| 3 | 12-JUN-23 | SDP PERMIT REVIEW COMMENTS                     |
| 4 | 29-JUL-23 | CART CORRAL DESIGN REVISED                     |
| 5 | 18-JUL-23 | CART CORRAL DESIGN REVISED                     |
| 6 | 18-JUL-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #4 |



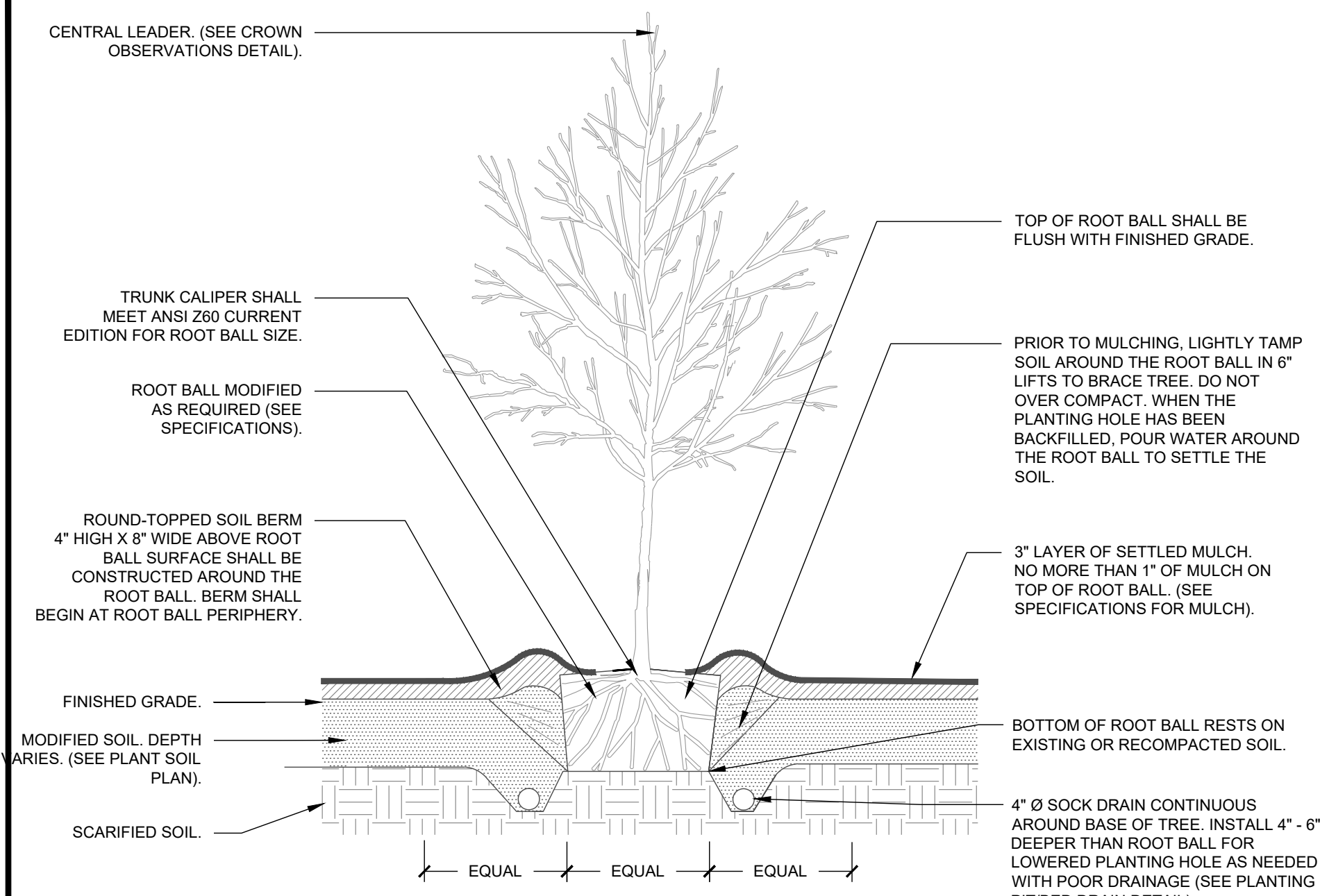
**ENHANCED PLANTING PLAN**  
**PUBLIX AT WALLBROOK**  
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 Rolesville, Wake County, North Carolina

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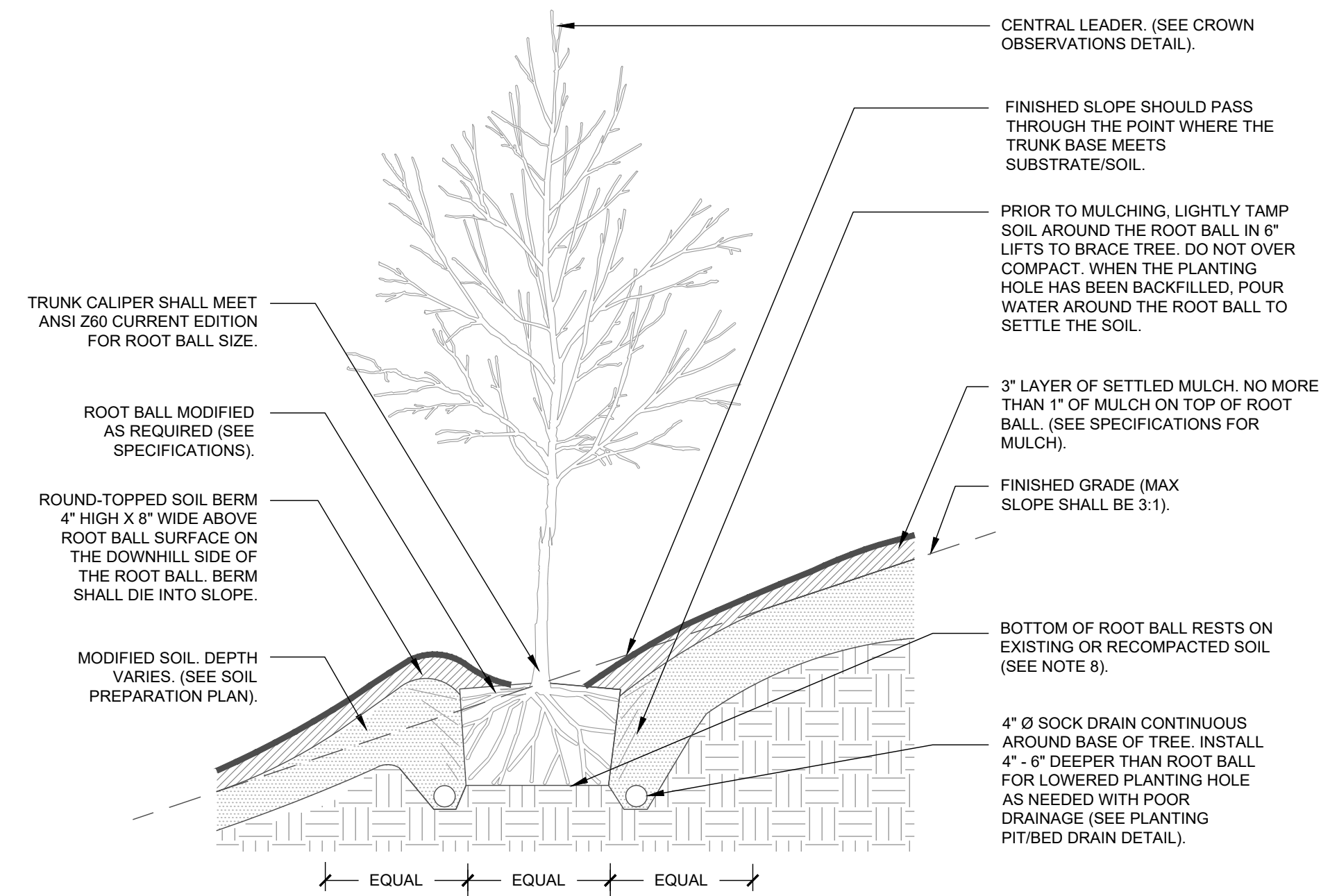
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Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

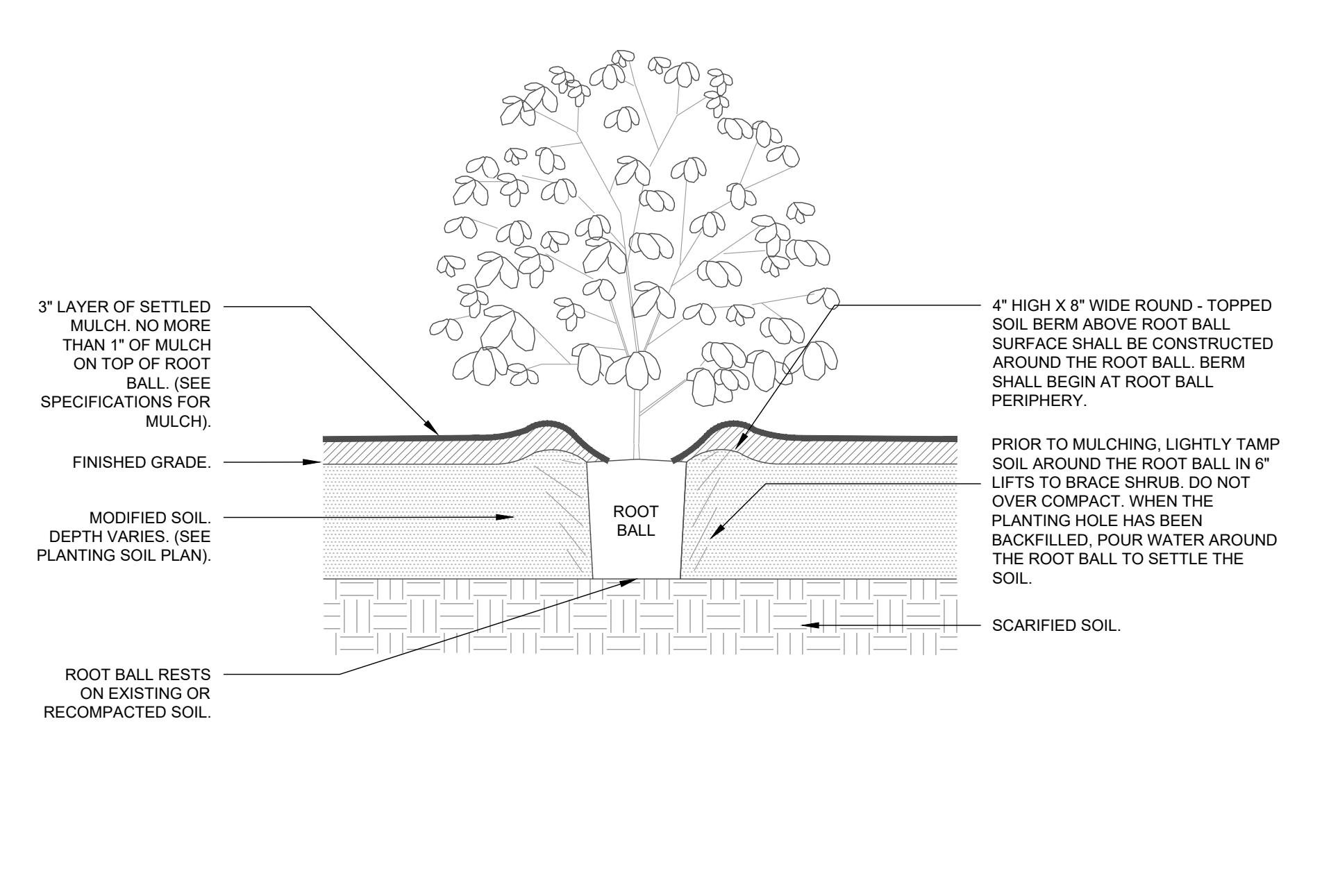
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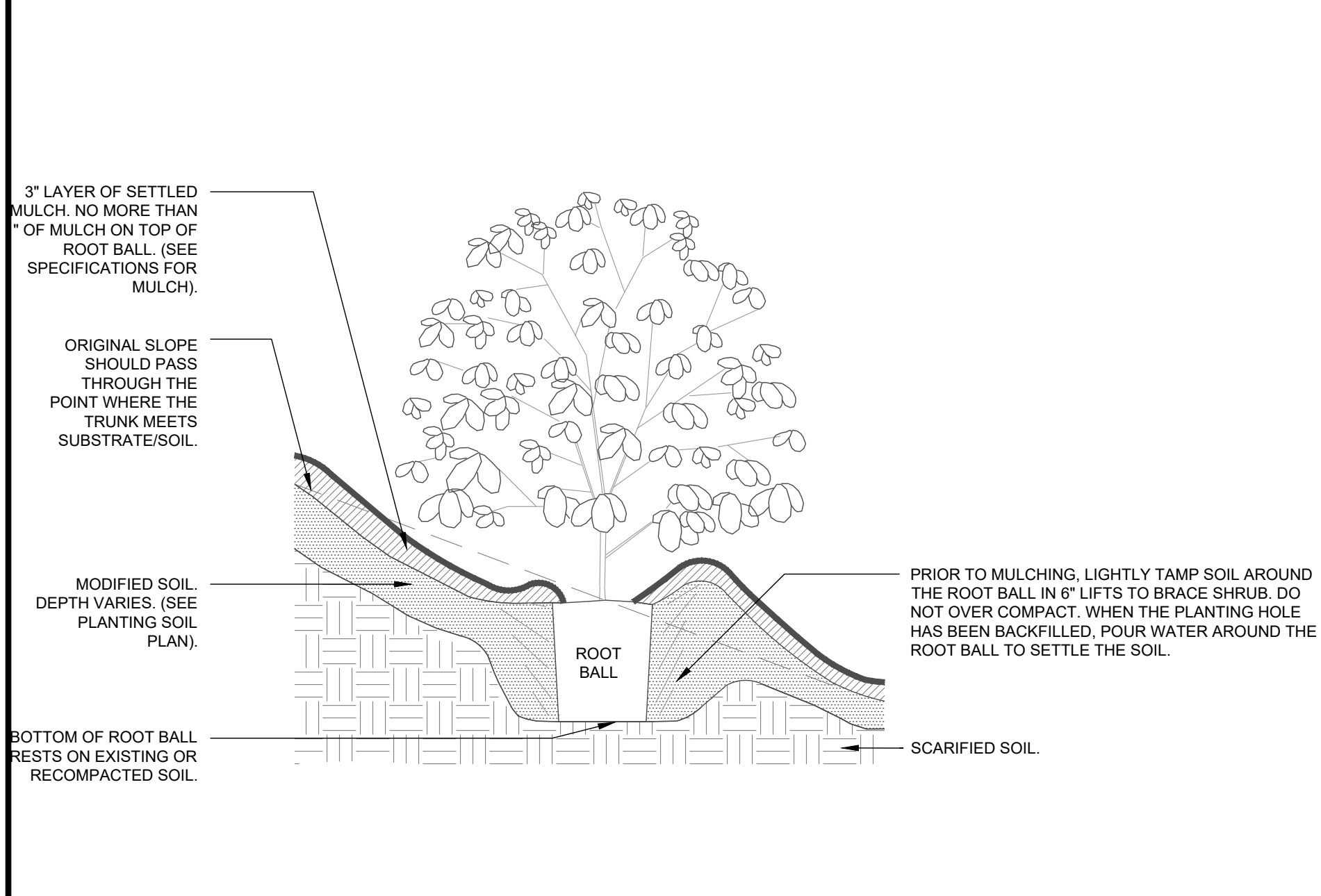
**1 TREE (TYPICAL)**  
SECTION NTS



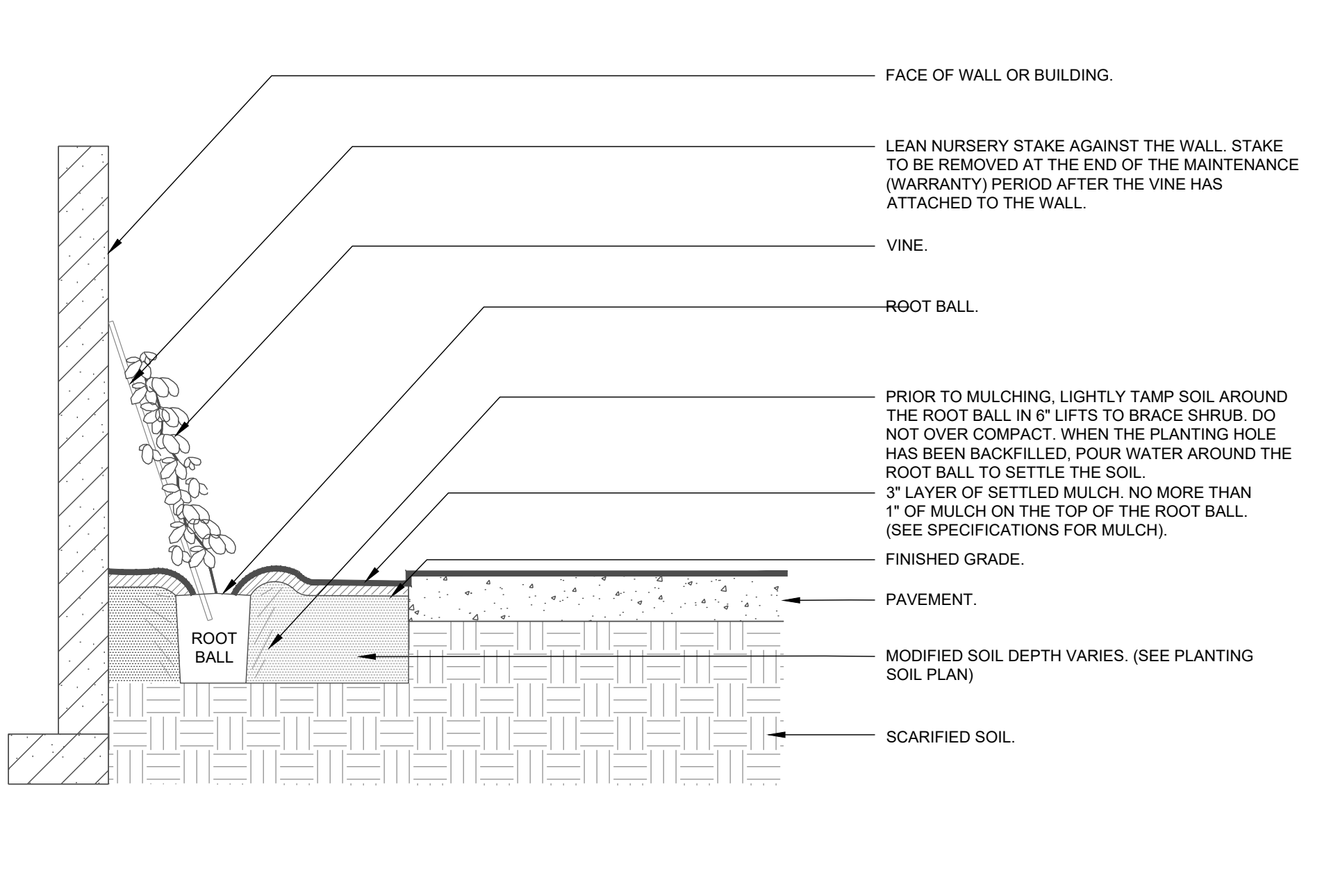
**2 TREE ON SLOPE (TYPICAL)**  
SECTION NTS



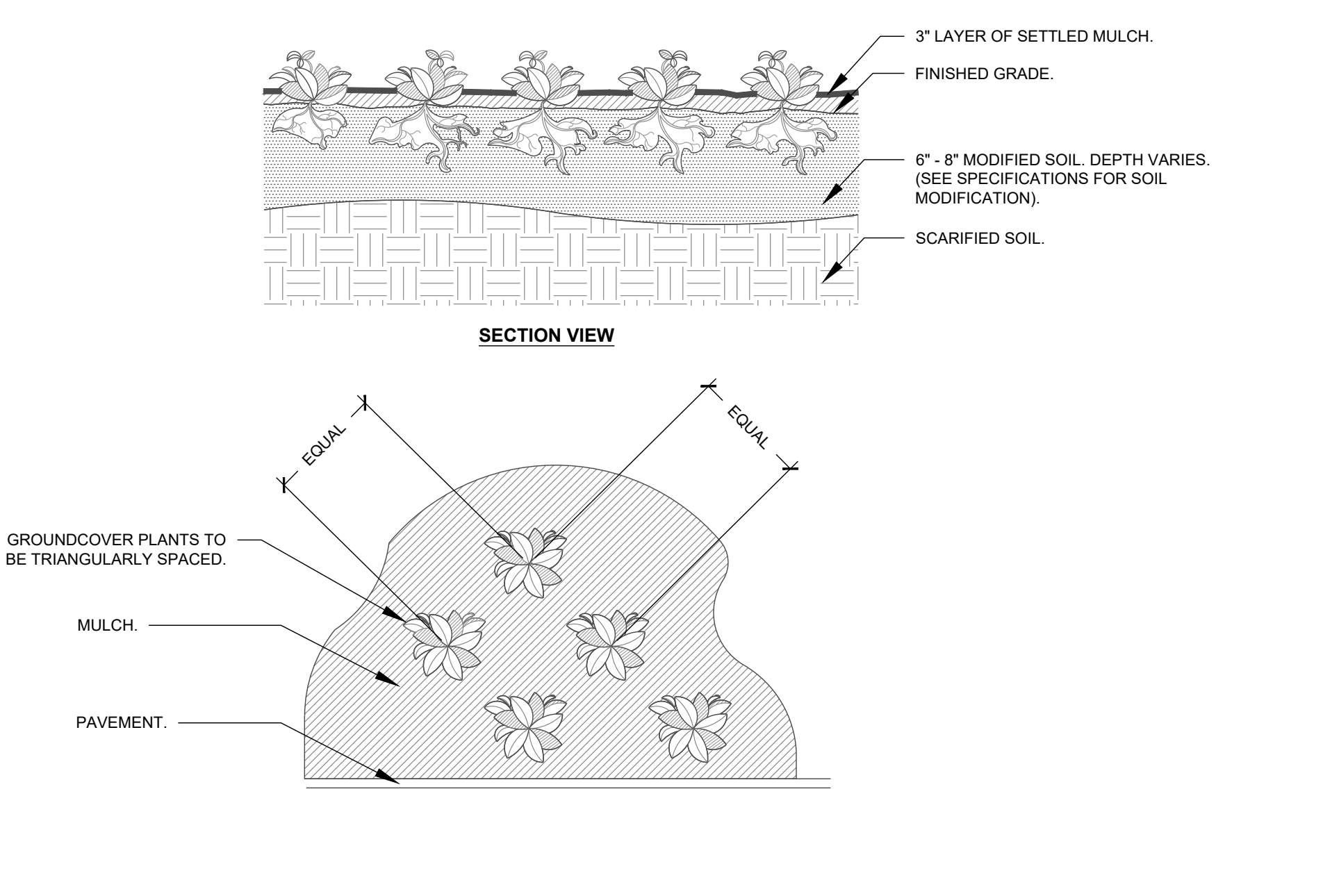
**3 SHRUB (TYPICAL)**  
SECTION NTS



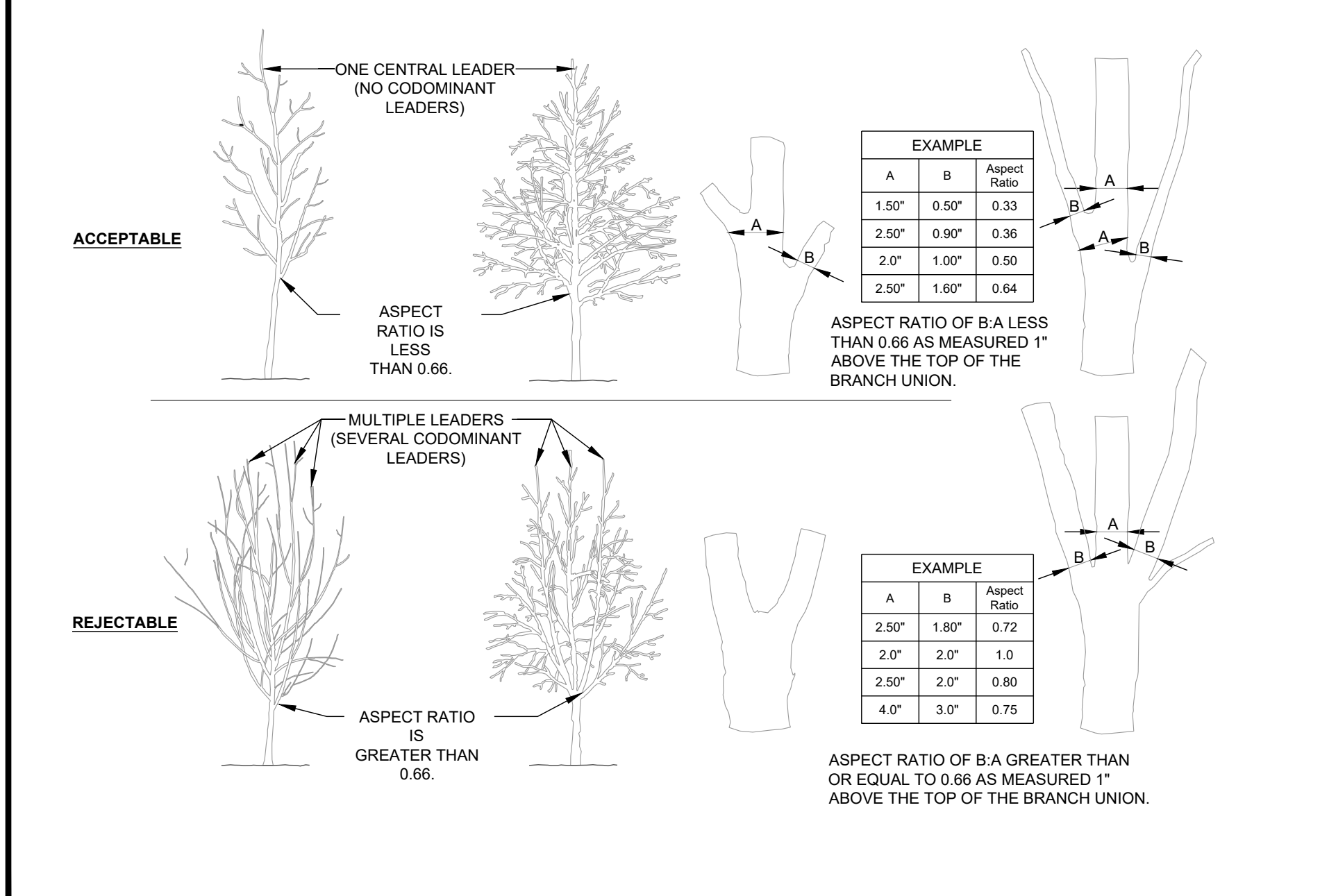
**4 SHRUB ON SLOPE (TYPICAL)**  
SECTION NTS



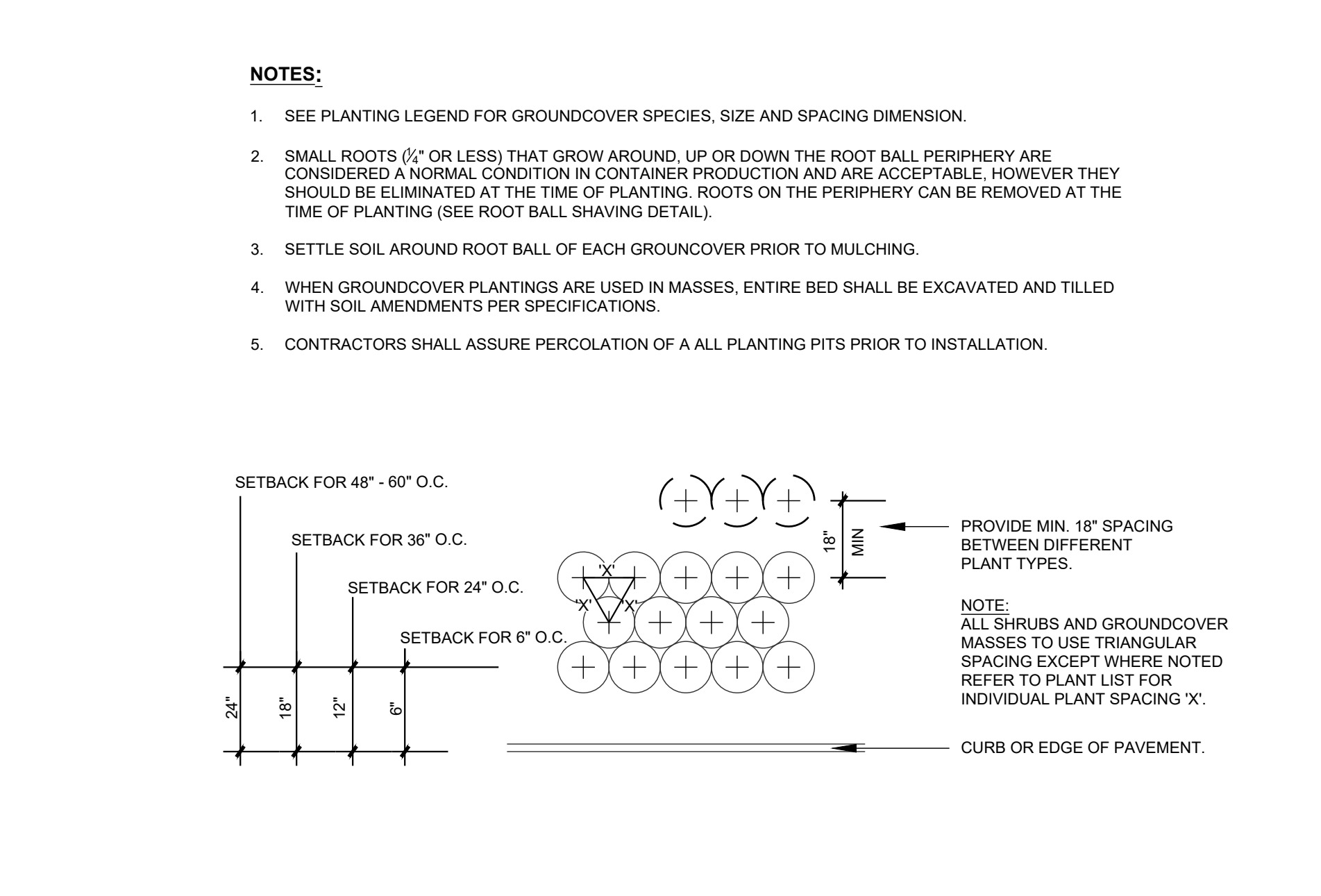
**5 VINE (TYPICAL)**  
SECTION NTS



**6 GROUNDCOVER PLANTING (TYPICAL)**  
PLAN NTS



**7 CROWN OBSERVATIONS - HIGH BRANCHED**  
SECTION NTS



**8 SHRUB AND GROUNDCOVER SPACING**  
PLAN NTS

- NOTES:**
- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE AND SPACING DIMENSION.
  - SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE. HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING (SEE ROOT BALL SHAVING DETAIL).
  - SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.
  - WHEN GROUNDCOVER PLANTINGS ARE USED IN MASSES, ENTIRE BED SHALL BE EXCAVATED AND TILLED WITH SOIL AMENDMENTS PER SPECIFICATIONS.
  - CONTRACTORS SHALL ASSURE PERCOLATION OF A ALL PLANTING PITS PRIOR TO INSTALLATION.

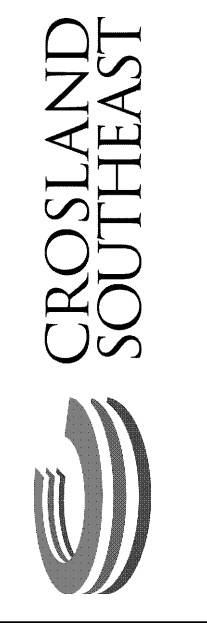
- PLANTING NOTES:**
- DO NOT STAKE TREES EXCEPT WHERE SPECIFIED BY LANDSCAPE ARCHITECT. STAKING IS REQUIRED FOR TREES PLANTED ON SLOPES.
  - WHERE SEVERAL TREES WILL BE PLANTED CLOSE TOGETHER SUCH THAT THEY WILL LIKELY SHARE ROOT SPACE, TILL IN SOIL AMENDMENTS TO A DEPTH OF 4-6" OVER THE ENTIRE AREA.
  - FOR CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL. THEN CUT OR PULL APART ANY ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
  - FOR FIELD GROWN TREES, CUT BURLAP, ROPE AND WIRE BASKET AWAY FROM TOP AND SIDES OF ROOT BALL.
  - THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND REGULARLY THROUGHOUT THE FOLLOWING TWO SUMMERS.
  - THE PLANTING PROCESS IS SIMILAR FOR DECIDUOUS AND EVERGREEN TREES.
  - DO NOT WRAP TRUNK; MARK NORTH SIDE OF TREE IN THE NURSERY AND LOCATE TO THE NORTH IN THE FIELD.
  - WIDTH OF PLANTING HOLE IS 3X ROOT BALL AT THE SURFACE, SLOPING TO 2X THE ROOT BALL DIAMETER AT THE DEPTH OF THE ROOT BALL.
  - BEFORE PLANTING, ADD 3-4" OF WELL COMPOSTED LEAVES, RECYCLED YARD WASTE OR OTHER COMPOST, AND TILL INTO TOP 6" OF PREPARED SOIL. ADD COMPOST AT 20-35% BY VOLUME TO BACKFILL.
  - PERFORM PERCOLATION TEST FOR EACH TREE PIT TO CONFIRM THAT WATER DRAINS OUT OF THE SOIL. PROVIDE GRAVEL SUMP FILTER FABRIC & VENT PIPE IF DRAINAGE DOES NOT OCCUR WITHIN 24 HOURS. INCLUDE ALL SUMPS IN BASE BID. SHOULD SUMPS NOT BE NECESSARY AFTER PERCOLATION TEST, PROVIDE CHANGE ORDER DEDUCT TO OWNER.
  - IF PLANTING HOLES ARE DUG WITH A LARGE AUGER BREAKING DOWN THE SIDES WITH A SHOVEL CAN ELIMINATE GLAZING AND CREATE THE PREFERRED SLOPING SIDE.
  - TREES SHALL HAVE SINGLE LEADERS. TREES WITH 2 LEADERS WILL BE REJECTED.
  - DO NOT PLACE MULCH IN CONTACT WITH TRUNK.
  - PROVIDE GATOR BAGS FOR ALL TREES WHERE IRRIGATION IS NOT PROVIDED.

**9 PLANTING NOTES**

**- Final Drawing - Issued for Permit**

**Review Purposes Only**

| # | DATE      | DESCRIPTION                                |
|---|-----------|--|
| 1 | 10-FEB-23 | SHIFED BUILDING LOCATION PER OWNER REQUEST |
| 2 | 10-FEB-23 | 10 PERMIT REVIEW COMMENTS                  |
| 3 | 12-JUN-23 | 10 PERMIT REVIEW COMMENTS                  |
| 4 | 25-JUL-23 | 10 PERMIT REVIEW COMMENTS                  |
| 5 | 18-JUL-23 | CART CORRAL DETAIL REVISED                 |
| 6 | 18-JUL-23 | 10 PERMIT REVIEW COMMENTS                  |
| 7 | 20-SEP-23 | 10 PERMIT REVIEW COMMENTS                  |



**PLANTING & SOIL DETAILS**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

NC License: P-11199

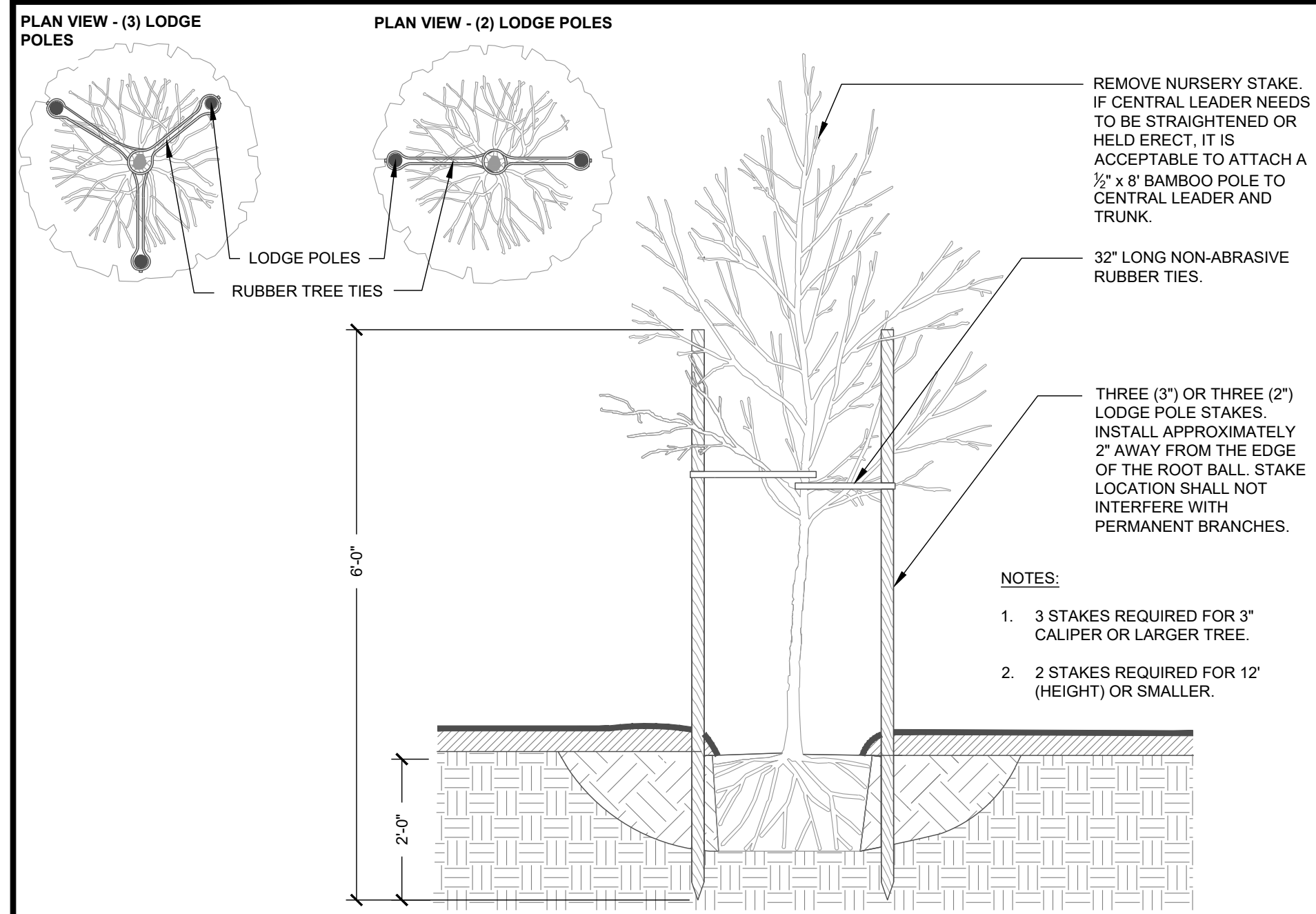
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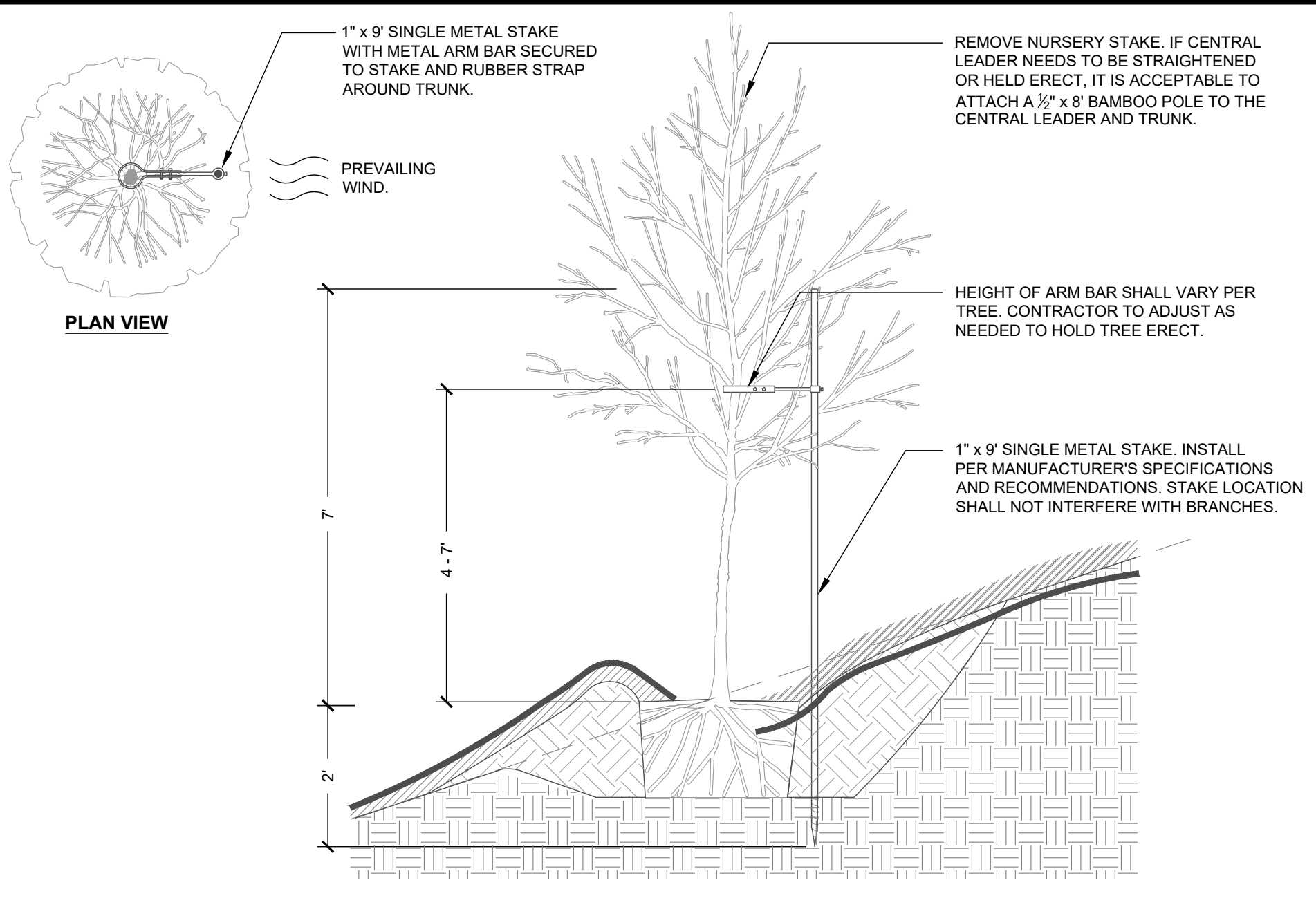
9/20/2023

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| Project Manager: | SMF     |
| Drawn By:        | SMF     |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

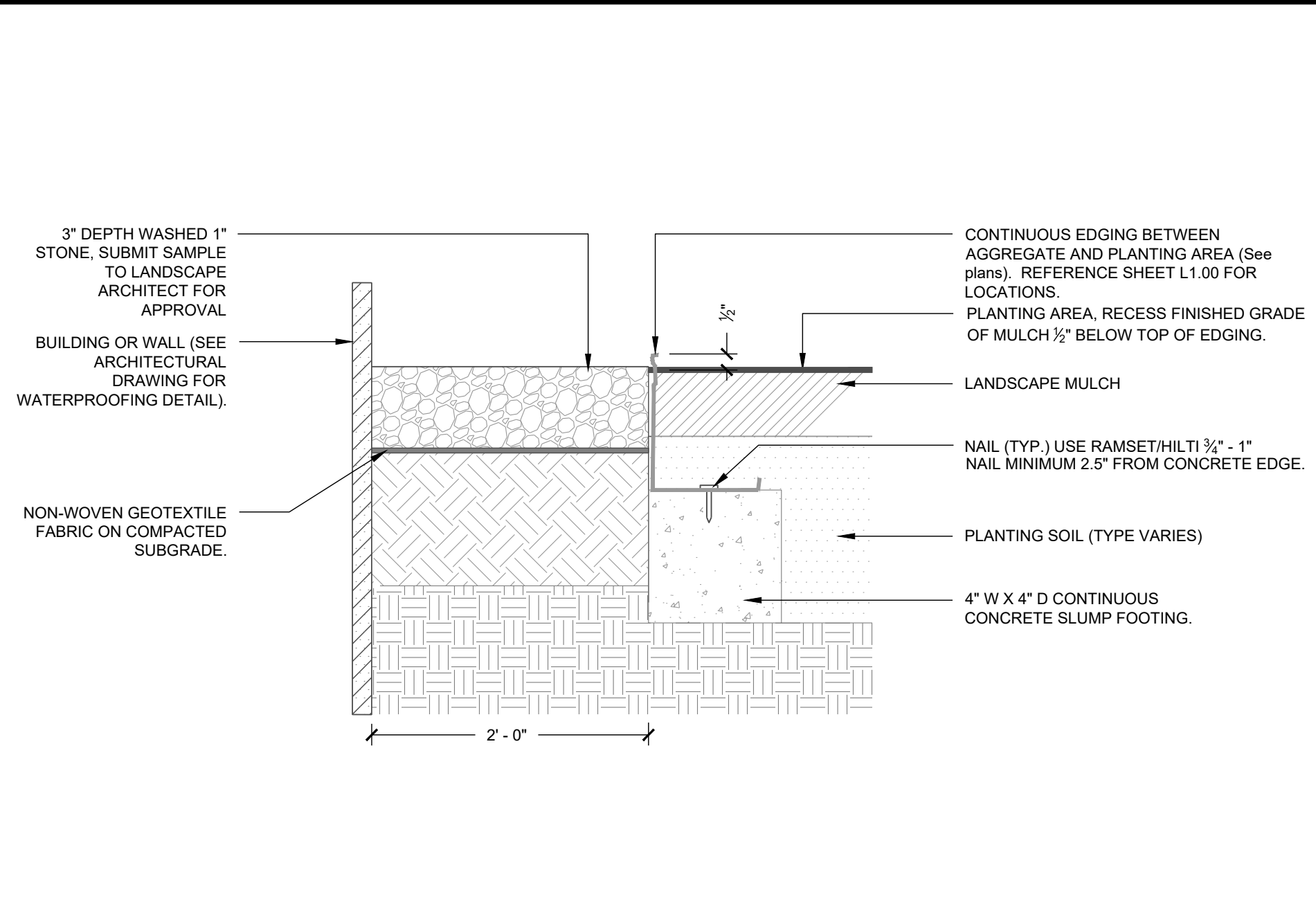
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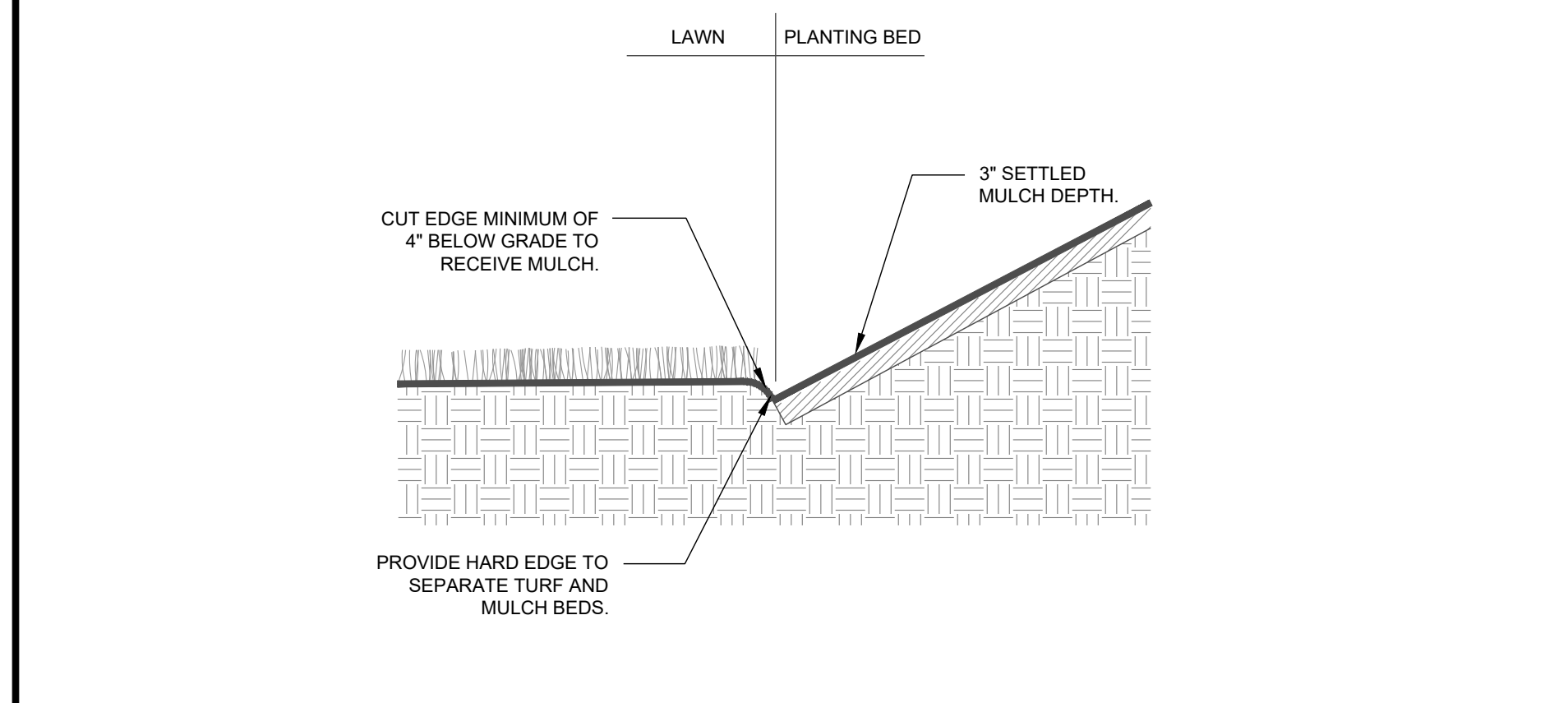
**1** TREE STAKING - LODGE POLES SECTION NTS



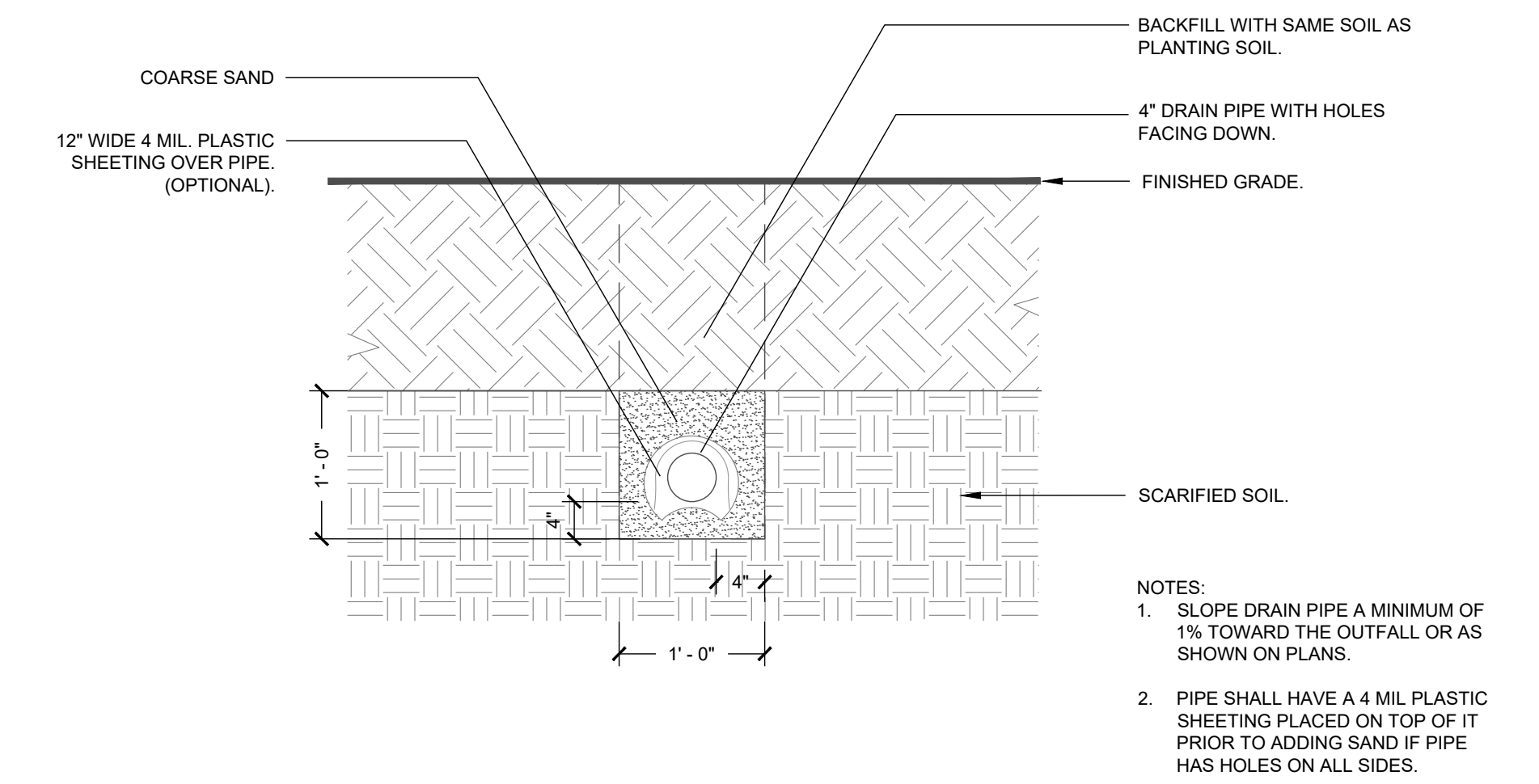
**2** TREE STAKING - ON SLOPE SECTION NTS



**3** GRAVEL BAND WITH STEEL EDGING SECTION NTS



**4** LAWN / PLANT BED TRENCH EDGING SECTION NTS



**5** PLANTING PIT / BED DRAIN DETAIL SECTION NTS

- Final Drawing -  
Issued for Permit

| Review Purposes Only |   |
|----------------------|---|
| 1                    | 10-SECT-23 REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |
| 2                    | 10-SECT-23 REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 3                    | 10-SECT-23 CART CORRAL DETAIL REVISED                     |
| 4                    | 10-SECT-23 REVISED PER REVIEW COMMENTS                    |
| 5                    | 10-SECT-23 REVISED PER REVIEW COMMENTS                    |
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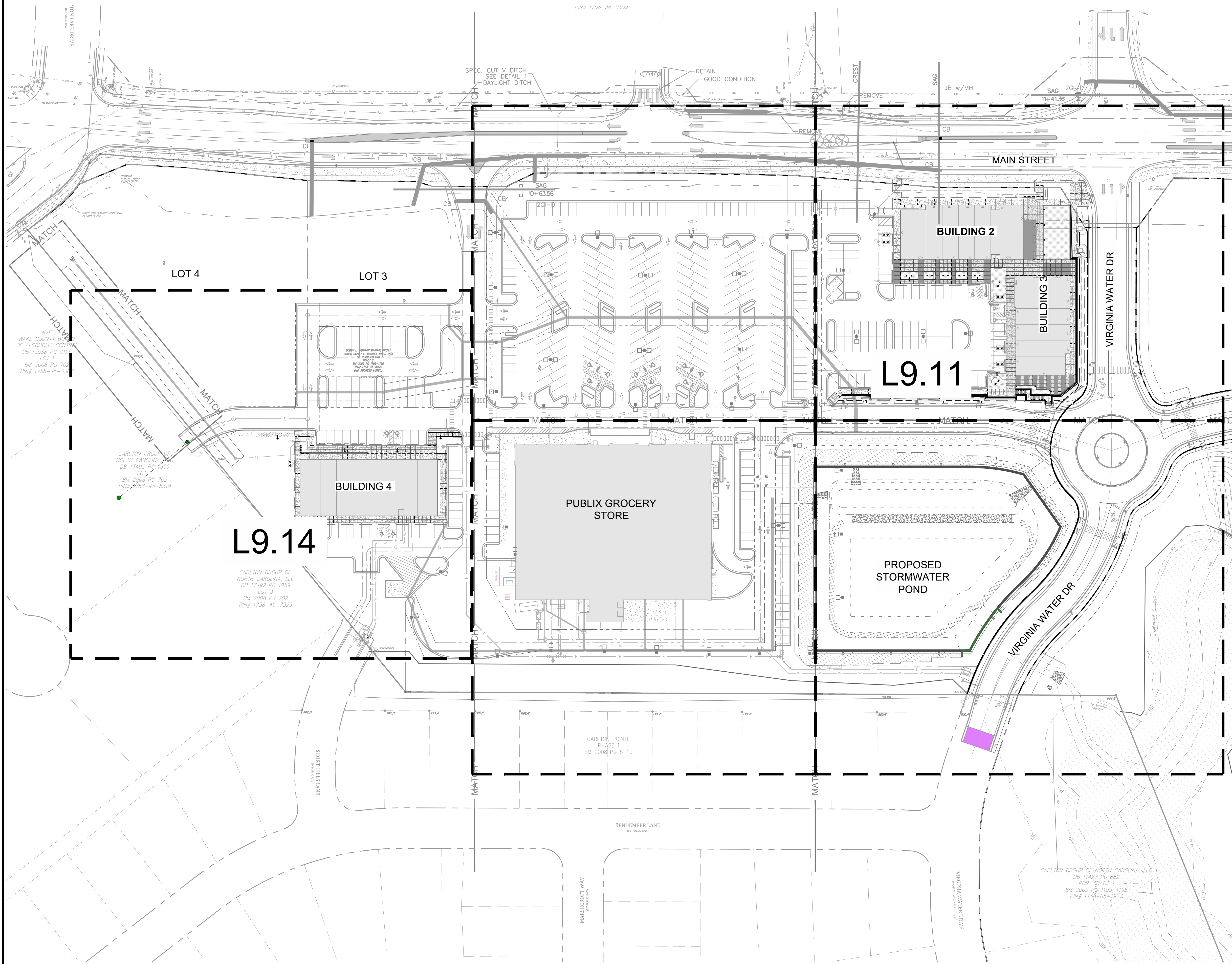
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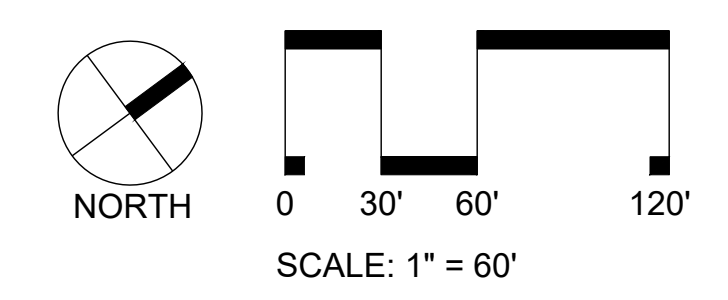
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| Date:            | 9/20/2023 |
| Project Manager: | SMF       |
| Drawn By:        | CN/SP     |
| Checked By:      | SMF       |
| Project Number:  | L 22007   |
| Drawing Number:  |           |

**L7.92**  
Date: February 10, 2023

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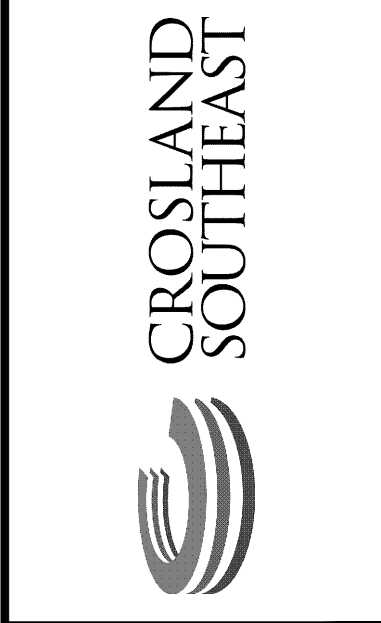
- NOTE:
1. PROJECT MONUMENT SIGNS BY OTHERS. SHOPS DRAWINGS TO BE REVIEWED BY LANDSCAPE ARCHITECT
  2. EXTERIOR LIGHTING PHOTOMETRIC DRAWING PART OF ARCHITECT'S DRAWING SET.
  3. EXTERIOR BUILDING LIGHTING PER ARCHITECT.
  4. PARKING LOT LIGHTING BY OTHERS.
  5. TENANT STRING LIGHTS NOT SHOWN IN DRAWINGS PER OWNER/TENANT



- Final Drawing -  
Issued for Permit

Review Purposes Only

| # | DATE      | REVISIONS:                  | DESCRIPTION                 |
|---|-----------|-----------------------------|-----------------------------|
| 1 | 10-FEB-23 | SD PERMIT REVIEW COMMENTS   | SD PERMIT REVIEW COMMENTS   |
| 2 | 24-APR-23 | SD PERMIT REVIEW COMMENTS   | SD PERMIT REVIEW COMMENTS   |
| 3 | 12-JUN-23 | SD PERMIT REVIEW COMMENTS   | SD PERMIT REVIEW COMMENTS   |
| 4 | 29-JUL-23 | SD PERMIT REVIEW COMMENTS   | SD PERMIT REVIEW COMMENTS   |
| 5 | 18-AUG-23 | CART CORRAL DETAIL REVISED  | CART CORRAL DETAIL REVISED  |
| 6 | 18-AUG-23 | REMOVED PER REVIEW COMMENTS | REMOVED PER REVIEW COMMENTS |
| 7 | 20-SEP-23 | REMOVED PER REVIEW COMMENTS | REMOVED PER REVIEW COMMENTS |



**OVERALL SITE LIGHTING PLAN**  
**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
Rolesville, Wake County, North Carolina

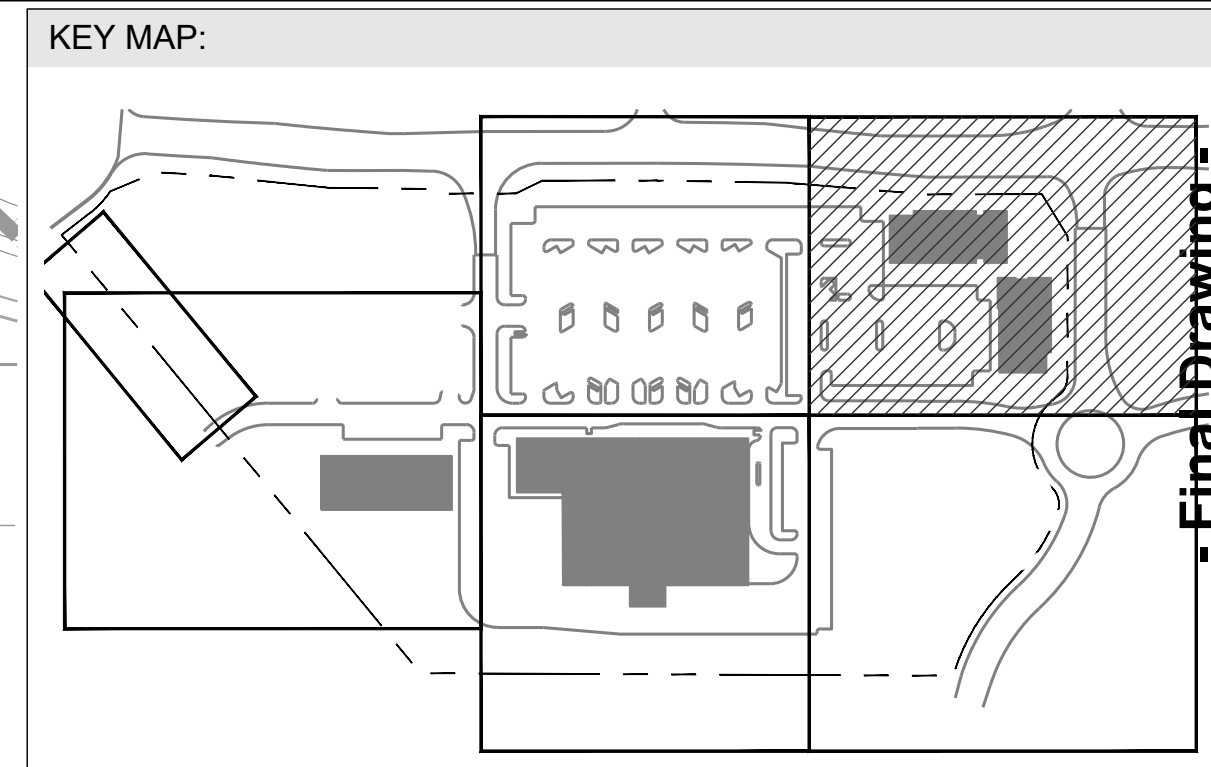
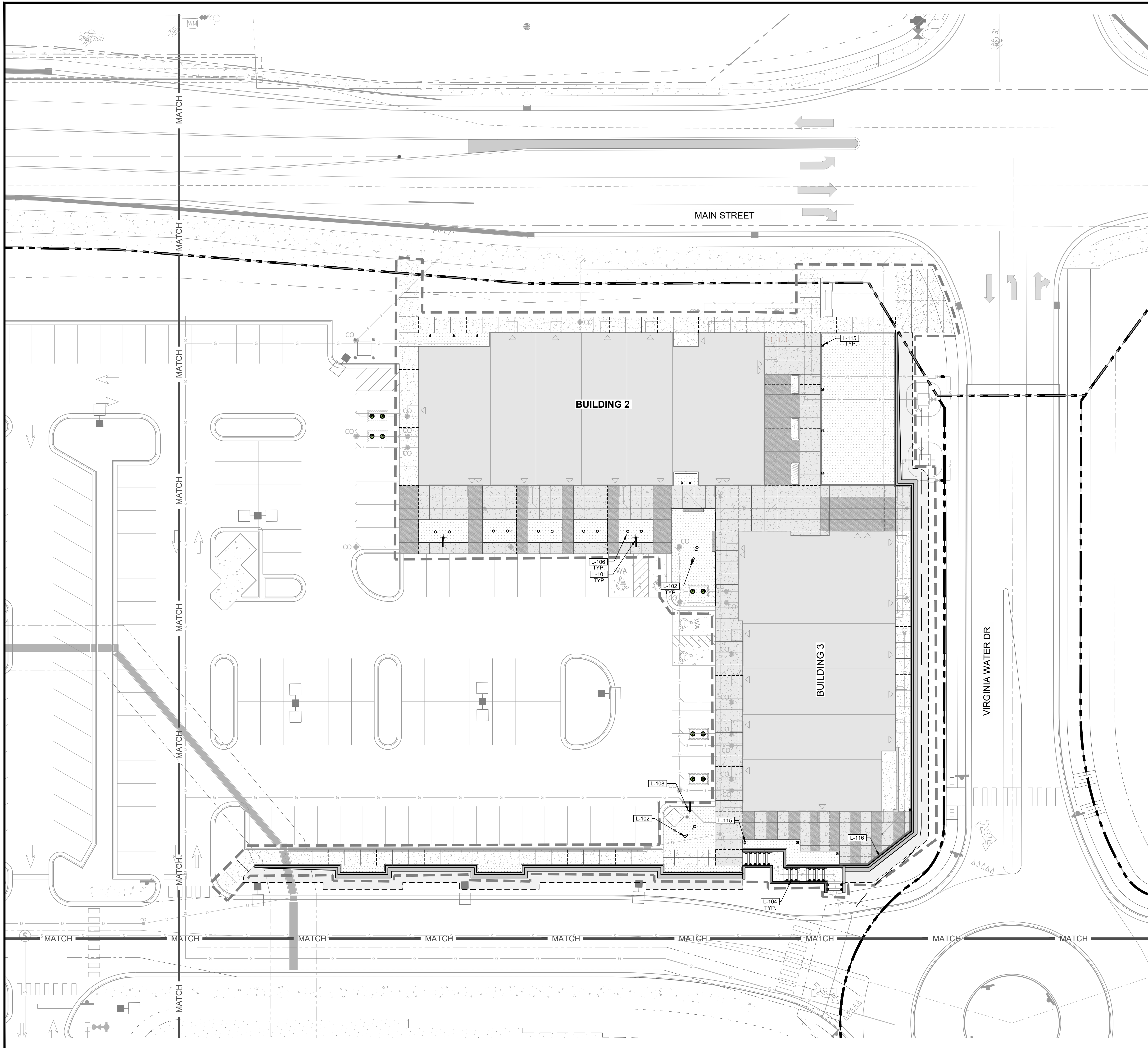
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9/20/2023

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|------------------|---------|
| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L9.00**  
Date: February 10, 2023





| LIGHTING SCHEDULE |                                  |         |
|-------------------|----------------------------------|---------|
| SYMBOL            | DESCRIPTION                      | DETAIL  |
| ⬤                 | L-101 SPECIALTY LIGHT FIXTURE    | 3/L9.91 |
| ⊙                 | L-102 STAKE MOUNTED TREE UPLIGHT | 6/L9.91 |
| ⬤                 | L-104 STEP LIGHT                 | 2/L9.91 |
| ○                 | L-106 GROUND LIGHT               | 5/L9.91 |
| ⬤                 | L-115 SQUARE ALUMINUM POLE       | 7/L9.91 |
| —                 | L-116 CONCEALED ROPE LIGHT       | 4/L9.91 |

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Review Purposes Only

| # | DATE      | DESCRIPTION                                   |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIPPED BUILDING LOCATION PER OWNER REQUEST   |
| 2 | 24-APR-23 | SD PERMIT REVIEW SUBMITTAL #1                 |
| 3 | 12-JUN-23 | SD PERMIT REVIEW COMMENTS                     |
| 4 | 29-JUL-23 | CART CORRAL DETAIL REVISED                    |
| 5 | 19-AUG-23 | CART CORRAL DETAIL REVISED                    |
| 6 | 19-AUG-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #2 |
| 7 | 20-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #3 |



**SITE LIGHTING NORTHEAST**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

NC License: P-1199

**ARK CONSULTING GROUP PLLC**  
ENGINEERS & PLANNERS

2755-B Charles Blvd.  
Charlotte, NC 28205  
(754) 558-0888  
www.arkconsultinggroup.com

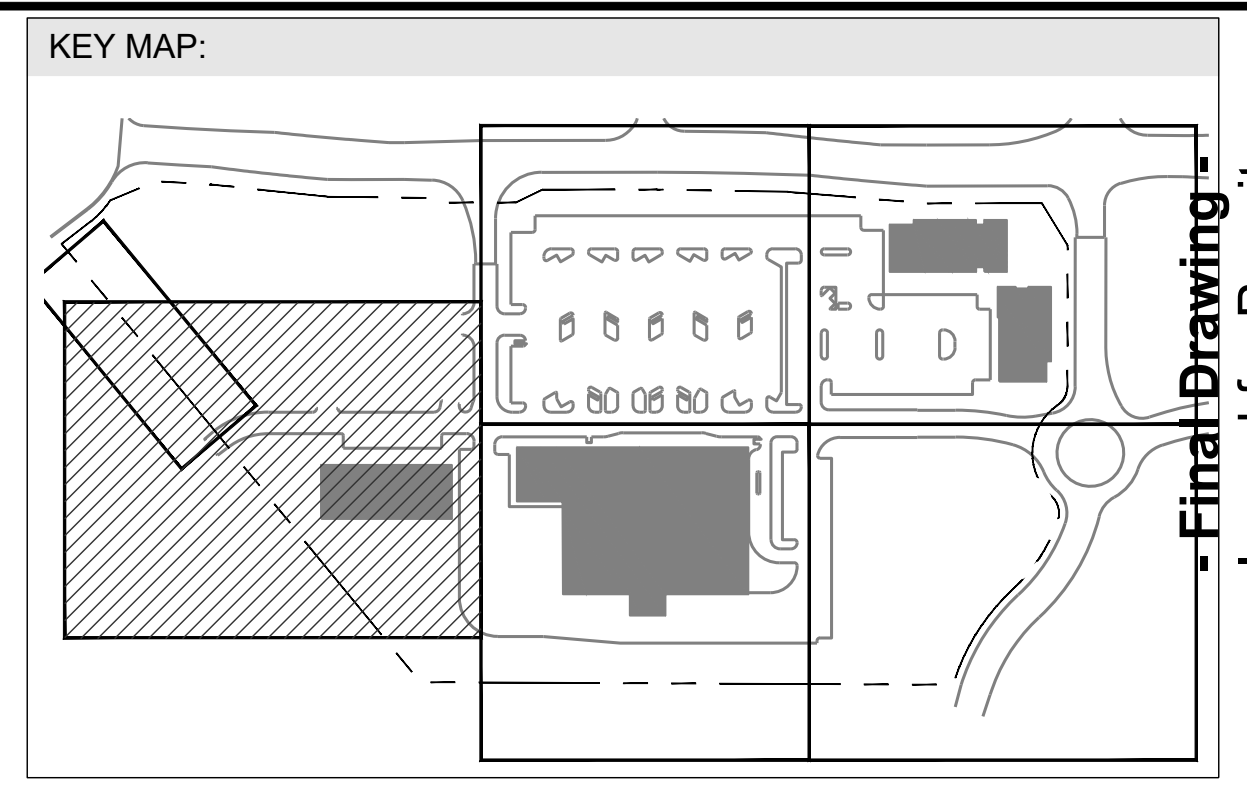
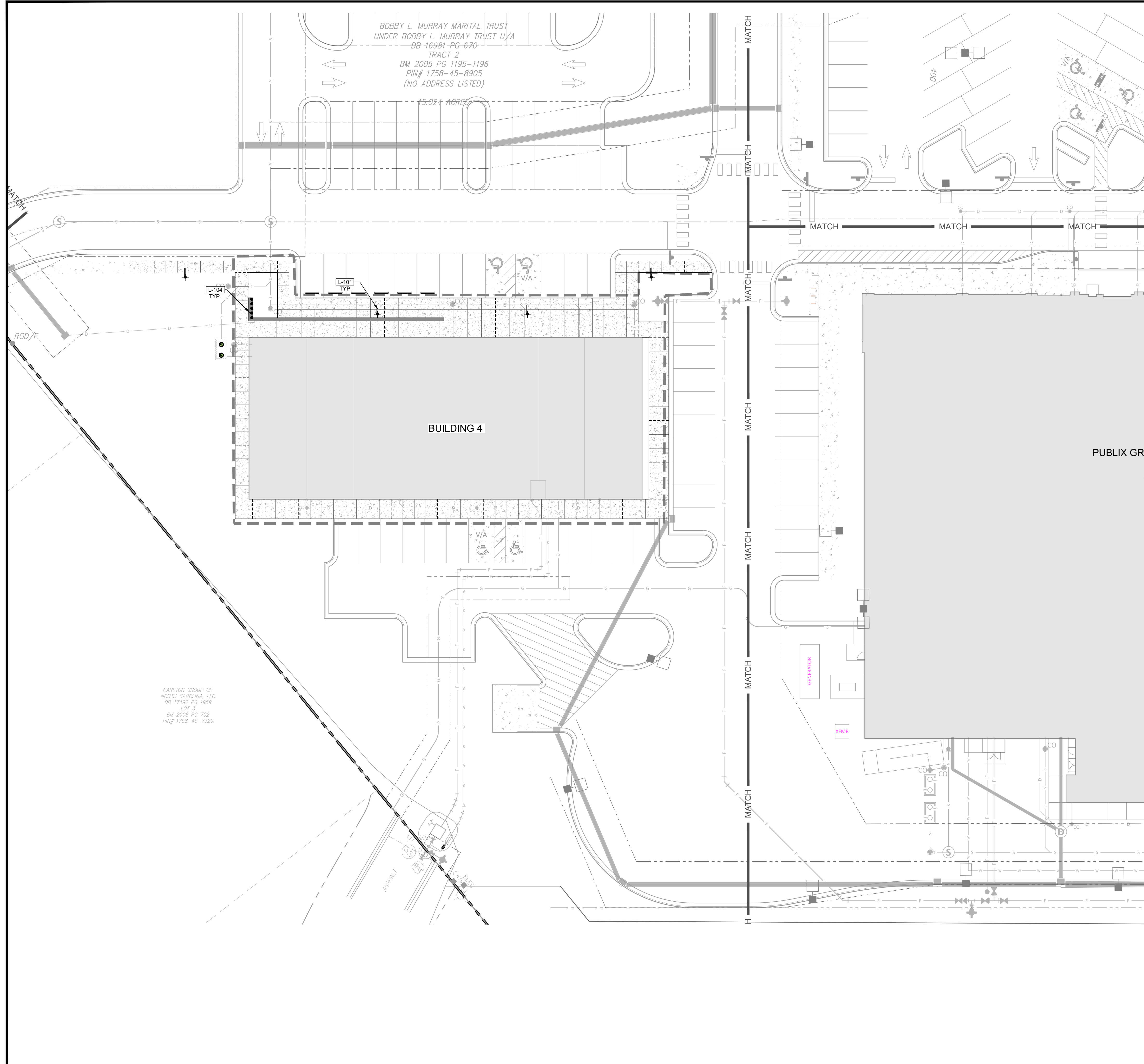
9/20/2023

|                  |         |
|------------------|---------|
| Project Manager: | SMF     |
| Drawn By:        | CN/SP   |
| Checked By:      | SMF     |
| Project Number:  | L 22007 |
| Drawing Number:  |         |

**L9.11**

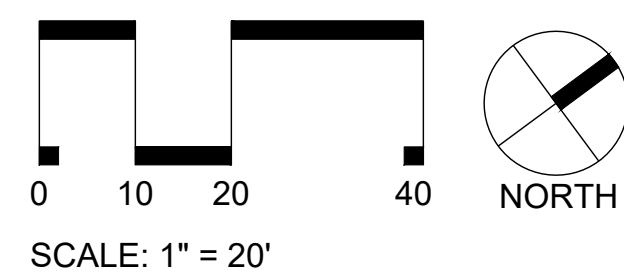
Date: February 10, 2023

C:\PROJECTS\2023\22007 - WALLBROOK\DWG\023-SITE\SSS\22007-09-01 Lighting PLAN.rvt, 03/11, Site Plan, Mod, Aug 21, 2023 9:51:04 AM



**LIGHTING SCHEDULE**

| SYMBOL | DESCRIPTION                | DETAIL  |
|--------|----------------------------|---------|
| L-101  | SPECIALTY LIGHT FIXTURE    | 3/L9.91 |
| L-102  | STAKE MOUNTED TREE UPLIGHT | 6/L9.91 |
| L-104  | STEP LIGHT                 | 2/L9.91 |
| L-106  | GROUND LIGHT               | 5/L9.91 |
| L-115  | SQUARE ALUMINUM POLE       | 7/L9.91 |
| L-116  | CONCEALED ROPE LIGHT       | 4/L9.91 |



**REVISIONS:**

| # | DATE      | DESCRIPTION                                    |
|---|-----------|--|
| 1 | 10-FEB-23 | ADDED BUILDING LOCATION PER OWNER REQUEST      |
| 2 | 24-APR-23 | REVISED PER REVIEW COMMENTS                    |
| 3 | 12-JUN-23 | REVISED PER REVIEW COMMENTS                    |
| 4 | 29-JUL-23 | REVISED PER REVIEW COMMENTS                    |
| 5 | 19-AUG-23 | CART CORRAL DETAIL REVISED                     |
| 6 | 19-AUG-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #2 |
| 7 | 26-SEP-23 | REVISED PER REVIEW COMMENTS - SDP SUBMITTAL #3 |

**CROSLAND SOUTHEAST**

**SITE LIGHTING BLDG 4**

**PUBLIX AT WALLBROOK**

S Main St. / US 401 and Virginia Water Drive

Rolesville, Wake County, North Carolina

NC License: P-1159

**ARK CONSULTING GROUP PLLC**  
ENGINEERS & PLANNERS

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Raleigh, NC 27604  
(919) 558-0888  
www.arkconsultinggroup.com

9/20/2023

Project Manager: SMF  
 Drawn By: CN/SP  
 Checked By: SMF  
 Project Number: L 22007  
 Drawing Number:

**L9.14**

Date: February 10, 2023

**NEON CONTOUR**

It's like neon, but better! This bendable, waterproof light strip uses a raised rounded lens that gives modern LEDs the classic glow of neon. Available in static white, static colors, and variable white options, our Neon Contour is designed to brave the elements in facade lighting and lettering.

- Flexible silicone LED tube creates vivid light and bold statements
- Waterproof and UV resistant
- Unique rounded design helps create signature styles
- Assembled in USA

**Applications:**  
Commercial: Hospitality, Residential  
Entertainment: Museums, Retail / Signage  
Healthcare: Public Spaces

**RoHS IP68**

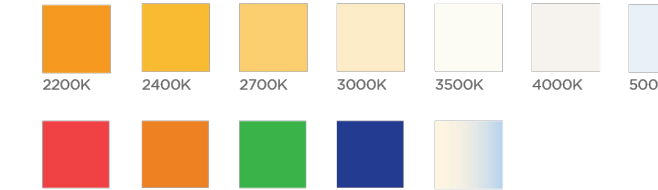
**ORDERING GUIDE**

| Category           | CRI                              | Ribbon Type & IP Rating               | Wattage & Color   |
|--------------------|----------------------------------|---------------------------------------|---|
| NLG - Neon Contour | 0 - Static Color, Color Changing | 5W/268 - Static White Series 2 IP68   | 3.022 - 3.0 W/ft 2200K, 3.000 - 3.0 W/ft 5000K          |
|                    | 90 - 90+ CRI Static White        | 5W/268 - Static Color Series 2 IP68   | 3.024 - 3.0 W/ft 2400K, 3.001 - 3.0 W/ft Red            |
|                    |                                  | 5W/268 - Variable White Series 2 IP68 | 3.027 - 3.0 W/ft 2200K, 3.004 - 3.0 W/ft Green          |
|                    |                                  |                                       | 3.030 - 3.0 W/ft 3000K, 3.008 - 3.0 W/ft Blue           |
|                    |                                  |                                       | 3.033 - 3.0 W/ft 3500K, 3.00A - 3.0 W/ft Amber          |
|                    |                                  |                                       | 3.040 - 3.0 W/ft 4000K, 3.00V - 3.0 W/ft Variable White |

**Power Feed Direction**  
E - End Feed

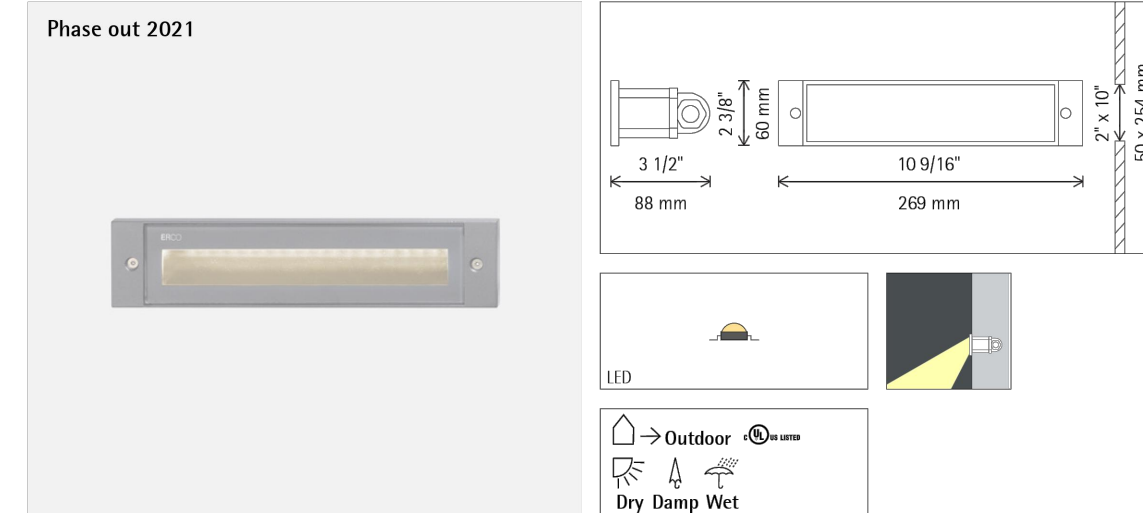
**Mounting**  
1. Mounting Clips  
(Part #: NL.CMOUNT.CLIP)

**AVAILABLE COLORS AND COLOR TEMPERATURES**



GEN LED Acolyte® is a quality division of GEN LED Brands™ | www.GENLEDbrands.com/Home/Acolyte | Page 1

**ERCO Axis Walklight**



**33733.023 Graphit m**  
LED L7W 120V AC 3000K warm white  
Version 9  
This product range will be discontinued on 01.01.2023.

**Product description**  
Housing: corrosion-resistant cast aluminum. No-rise surface treatment. Graphit m, double powder-coated. Mounting brackets: polymer. Clamp extension 9/16" - 25.52" / 24mm. 2 cable entries, through-wiring possible. 3-pole terminal block. Asymmetric reflector lens system: aluminum, silver anodized. Optimized steering for the LEDs ensures no direct light emission. LED module: Cover frame with Surface Lens, corrosion-resistant cast aluminum, graphit m double powder coated. Suitable for wet location (IP68): dust-proof and water jet proof. Weight: 1.67lbs (0.76kg)

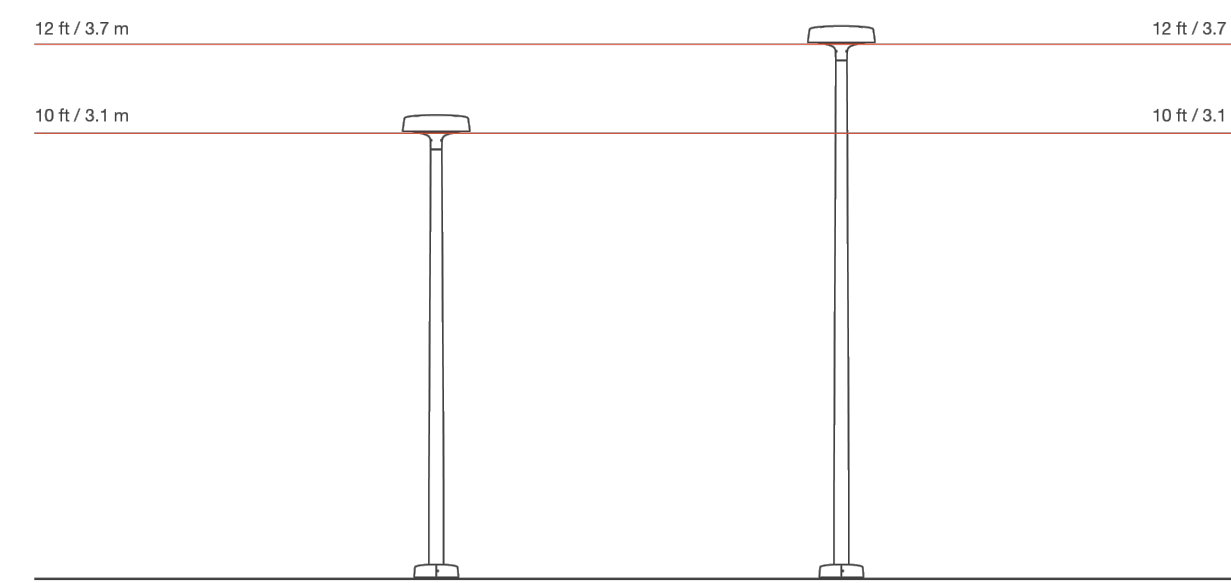
**Technical data**

|   |              |
|---|--------------|
| Luminous flux of the luminaire                      | 18lm         |
| Connected load                                      | 21W          |
| Luminaire efficacy                                  | 86lm/W       |
| Color deviation                                     |              |
| Color rendition index                               |              |
| Lumen maintenance (LED manufacturer specifications) | 1.0/50,000h  |
| LED failure rate                                    | 0.1% <50000h |
| LM  | 1            |

For your regional contact in the ERCO Sales network click here: [www.ercosales.com/contact](http://www.ercosales.com/contact)  
Technical region: 120W/042, 27V/160W  
We reserve the right to make technical and design changes.  
Edition: 10/20/2020  
Current version under [www.ercosales.com/33733.023](http://www.ercosales.com/33733.023)

**Motive Area Light**

Spec Sheet | AJ500



**Pole**

Round pole is tapered 4" to 3" and manufactured from seamless 6061 aluminum tubing and heat treated to produce a T6 temper. Normal wall thickness is 0.125". Flush mounted hand hole cover includes two magni-coated fasteners. Pole is topped with standard dimension 2-3/8" dia x 4" tenon.

Base plate is cast aluminum A385 alloy heat treated to a T6 temper. Base cover is a two-piece cast aluminum cover plate. Pole is mounted at grade with galvanized steel anchor bolts. Template and anchor hardware included.

| Model         | Distribution Type | Drive Current | Delivered Lumens | System Wattage | BOG Rating |
|---------------|-------------------|---------------|------------------|----------------|------------|
| AJ500-T4-40F  | Type IV           | 400mA         | 1362             | 16.0           | 81-U0-G1   |
| AJ500-T4-60F  | Type IV           | 600mA         | 1973             | 24.1           | 81-U0-G1   |
| AJ500-T5-40F  | Type V            | 800mA         | 2781             | 31.7           | 82-U0-G1   |
| AJ500-T5-120F | Type V            | 1200mA        | 3987             | 47.9           | 82-U0-G1   |
| AJ500-LB-40F  | Lambertian        | 800mA         | 2487             | 31.7           | 81-U0-G1   |

This data is subject to change.

2 Revised February 16, 2022 | Landscape Forms Inc. | 800.521.2546 | F.269.381.3455 | 7800 E. Michigan Ave., Kalamazoo, MI 49048

**2 STEP LIGHT**

1" = 1'-0"

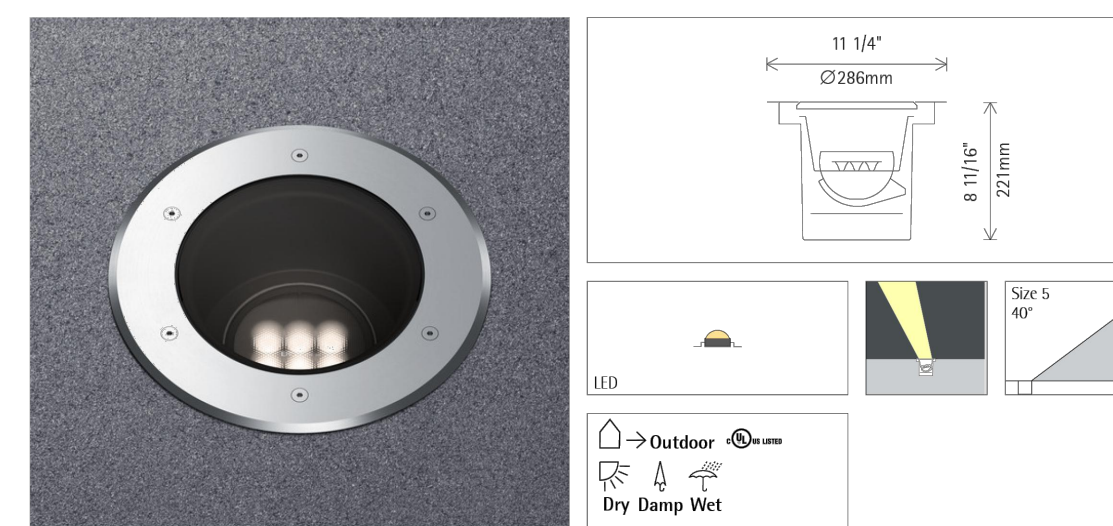
**3 SPECIALTY LIGHT FIXTURE**

1" = 1'-0"

**4 CONCEALED ROPE LIGHT**

1" = 1'-0"

**ERCO Tesis In-ground luminaire**



**35132.023**  
LED 17W 120V AC 3000K warm white  
0.106 dimmable  
Version 9  
This product range will be discontinued on 01.01.2023.

**Product description**  
Housing: polymer, black. Control gear: 120V/21V, 0.6Hz, dimmable. Longitudinally watertight cable seal: 1.4 x 1.31 1/2" 160mm. LED module: high-power LEDs on metal-core PCB. Collimating lens made of optical polymer. 0.30" fillable, rotatable through 360°. Optical cut-off: 40° from horizontal. Screw-fastened cover ring with flush safety glass, stainless steel. Safety glass: 9/16" / 15mm, clear. Installation with separate connection sleeve. Mounting in recessed housing: can be driven over in vehicles with pneumatic tires. Load 112 lbs (51 kg).

**Technical data**

|   |              |
|---|--------------|
| Luminous flux of the luminaire                      | 960lm        |
| Connected load                                      | 16.0W        |
| Luminaire efficacy                                  | 60lm/W       |
| Color deviation                                     | 13.5% CRI    |
| Color rendition index                               | 90           |
| Lumen maintenance (LED manufacturer specifications) | 1.0/50,000h  |
| LED failure rate                                    | 0.1% <50000h |
| LM  | 1            |
| Temperature on the cover glass                      | 90F / 32°C   |

For your regional contact in the ERCO Sales network click here: [www.ercosales.com/contact](http://www.ercosales.com/contact)  
Technical region: 120W/042, 27V/160W  
We reserve the right to make technical and design changes.  
Edition: 10/20/2020  
Current version under [www.ercosales.com/35132.023](http://www.ercosales.com/35132.023)

**Omnio OM2 Spike Mount**



The LS411COB uses "Chip on Board" technology to deliver powerful illumination and efficiency in one compact package. The high lumen density, combined with the traditional "lamp and reflector" optics makes the LS411COB ideal for applications requiring wider distribution such as landscape lighting or other applications where sharp cutoff is not desired. Featuring a wide range of color temperatures and optical / shielding combinations, the LS411COB retains the versatility of its discrete LED predecessor whilst dramatically boosting delivered lumens.

**Performance**

| Static White & Colour | Lumen Output (lm) | Efficacy (lm/W) | Peak Intensity (cd) |
|-----------------------|-------------------|-----------------|---------------------|
| 2700 K (80 CRI)       | -                 | -               | -                   |
| 2700 K (90 CRI)       | -                 | -               | -                   |
| 3,000 K (80 CRI)      | 1,414             | 58              | 6,681               |
| 4,000 K (80 CRI)      | 1,488             | 58              | 7,184               |
| 5,000 K (80 CRI)      | 1,494             | 60              | 7,207               |

Beam Angles: 20°, 40°, 60°

**Electrical**

|               |                                    |
|---------------|------------------------------------|
| LED Power     | 20W                                |
| Consumption   | 25.5W (nominal)                    |
| Input Voltage | Mains Voltage 100-277V AC, 50/60Hz |

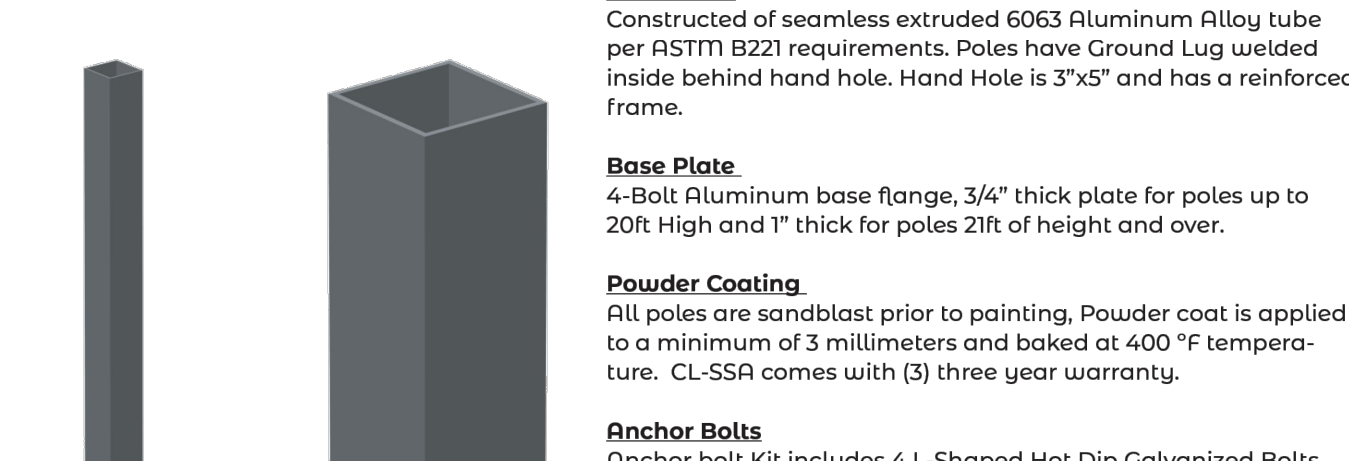
**Physical**

|                               |   |
|-------------------------------|---|
| Housing                       | LM20 die cast marine grade powder coated aluminum |
| Installation                  | Concrete anchor                                   |
| Ambient Operating Temperature | -20°C to 50°C (-4°F to 122°F)                     |
| Surface Temperature           | <65°C (<149°F) HumanTouch™ Compliant              |

**Certification & Compliance**  
IP Rating: IP67  
Certifications: CE, ETL



**CL-SSA Square Straight Aluminum**



**Pole Shaft:**  
Constructed of seamless extruded 6063 Aluminum Alloy tube per ASTM B221 requirements. Poles have Ground Lug welded inside behind hand hole. Hand Hole is 3"x5" and has a reinforced frame.

**Base Plate:**  
4-Bolt Aluminum base flange, 3/4" thick plate for poles up to 20ft. High and 1" thick for poles 21ft. of height and over.

**Powder Coating:**  
All poles are sandblast prior to painting. Powder coat is applied to a minimum of 3 millimeters and baked at 400 °F temperature. CL-SSA comes with (3) three year warranty.

**Anchor Bolts:**  
Anchor bolt kit includes 4 L-Shaped Hot Dip Galvanized Bolts, each anchor bolt come with two galvanized nuts and washer per bolt. Anchor bolts meet or exceed a minimum of 36,000 PSI and conform to ASTM F1554 grade 36.

**Base Cover, Hand Hole Cover and Pole Cap:**  
CL-SSA come with Removable Pole Cap and Aluminum Base Cover Powder Coated to match Pole. Cast Hand Hole Cover are provided with Internal bridge support and are powder coated to match pole.

Example: CL-SSA-8-4-188-9BP-342-D180-BRZ-T3R

| Cat #                             | Height   | Pole O.D. | Thickness | Bolt Circle      | Anchor Bolt    | Mounting | Finish            | Options   |
|-----------------------------------|----------|-----------|-----------|------------------|----------------|----------|-------------------|---|
| Square Straight Aluminum (CL-SSA) | 8' (8)   | 4"SQ      | 125       | 8"3/16 - 10"3/16 | 3/4"x24" [342] | Single   | Bronze [BRZ]      | Tenon   |
|                                   | 10' (10) | 4.5"      | (125)     | (125)            | (125)          | Double   | White [WHT]       | 2" 3/8 RND (T2R)  |
|                                   | 12' (12) | 5"SQ      | .188"     | (188)            | (188)          | Double   | White [WHT]       | 3" RND (T3R)  |
|                                   | 14' (14) | (55)      | (188)     | (9BP)            | (136)          | Double   | Silver [SVR]      | 3" 1/2 RND (T312R)  |
|                                   | 16' (16) | 6"SQ      | 1/4"      | (250)            | (250)          | Double   | Green [GRN]       | 4" RND (T4R)  |
|                                   | 18' (18) | (65)      | (250)     | (250)            | (250)          | Triple   | Black [BLK]       | 4" 1/2 RND (T412R)  |
|                                   | 20' (20) | (25)      | (25)      | (25)             | (25)           | Quad     | Graphite [GPH]    | 5" 1/2 SQ (T512SQ)  |
|                                   | 25' (25) | (30)      | (30)      | (30)             | (30)           | Quad     | Custom [CST]      | 5" 1/2 SQ (T512SQ)  |
|                                   | 30' (30) | (30)      | (30)      | (30)             | (30)           | Quad     | Marine Grade [MG] | Round Base Cover (RBC) GFI Provision ONLY (GFIP) GFI KIT (GFIK) |

**7 SQUARE ALUMINUM POLE**

1" = 1'-0"

**5 GROUND LIGHT**

1" = 1'-0"

**6 STAKE MOUNTED TREE LIGHT**

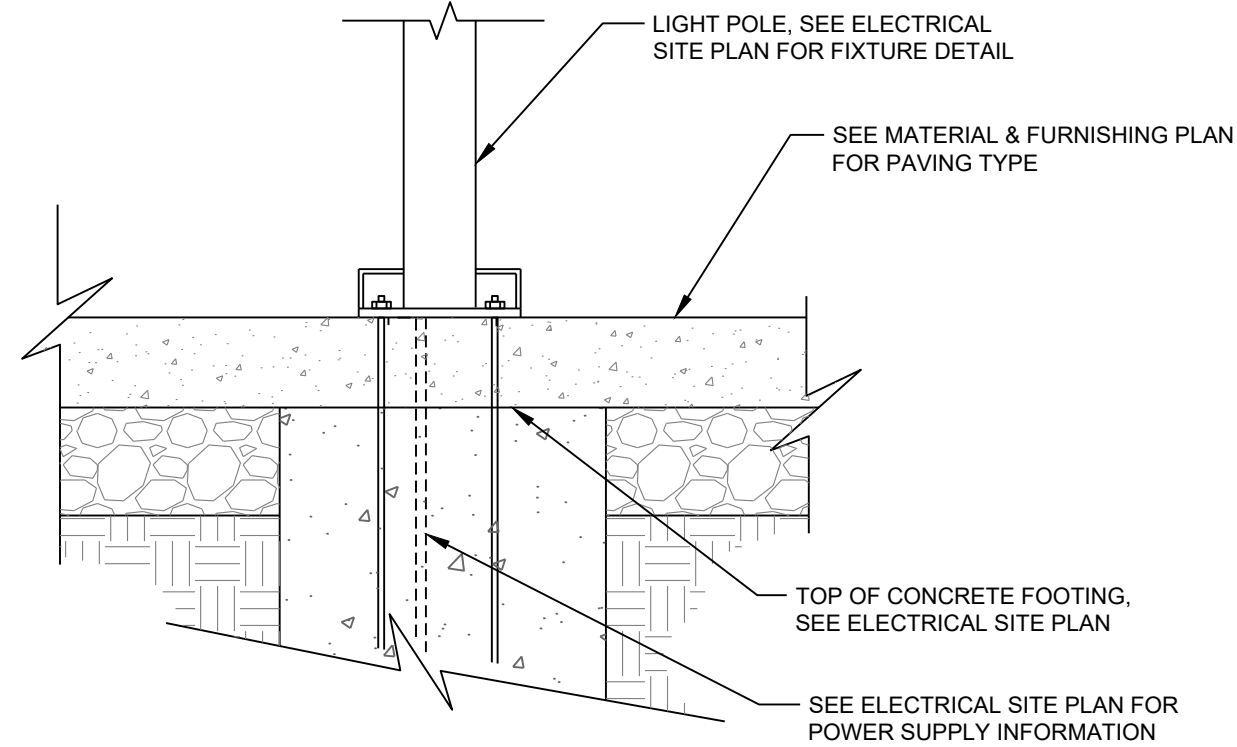
1" = 1'-0"

**- Final Drawing -**  
Issued for Permit  
Review Purposes Only

**CROSLAND SOUTHEAST**

**SITE LIGHTING DETAILS**  
**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
Rolesville, Wake County, North Carolina

Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:  
**L9.91**  
Date: February 10, 2023

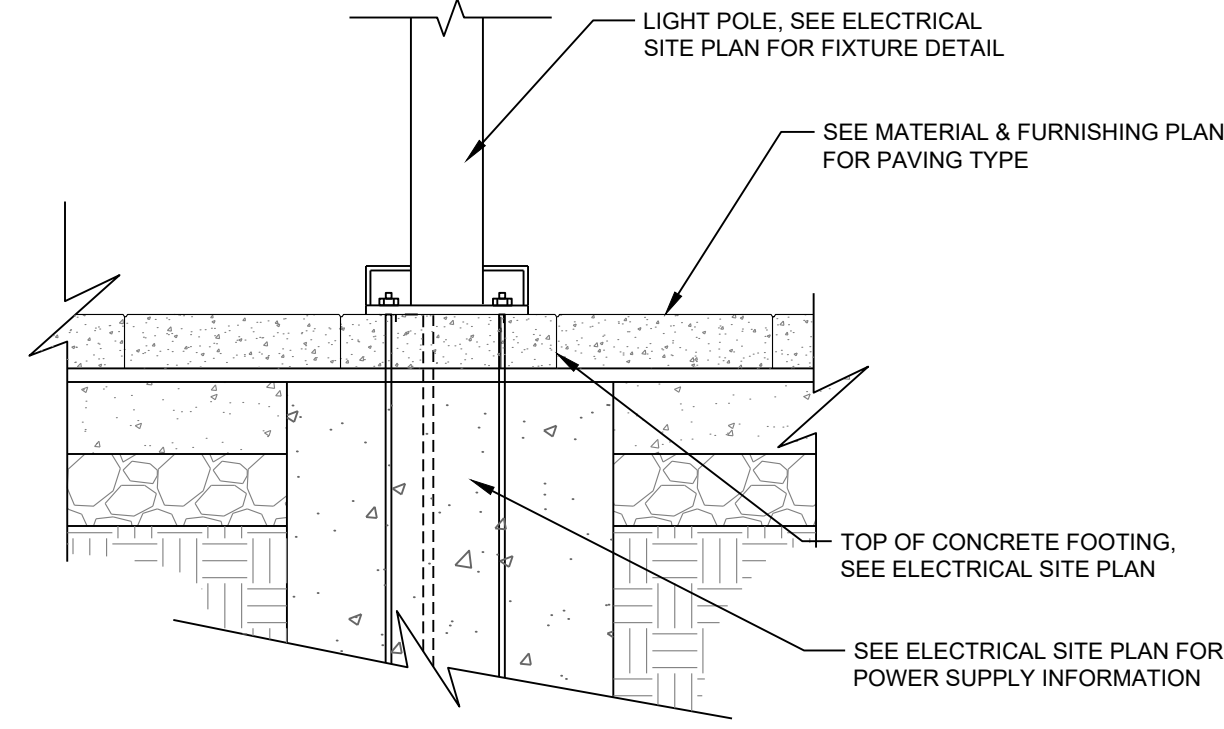


**NOTES:**

1. FOOTING DESIGN PER THE ELECTRICAL DRAWINGS.
2. TOP OF FOOTING TO BE COORDINATED WITH PAVING AS SHOWN.
3. THIS DETAIL TO COORDINATE FOOTING WITH PAVING ONLY.

**1 LIGHT POLE FOOTING IN CONCRETE**

3/8" = 1'-0"



**NOTES:**

1. FOOTING DESIGN PER THE ELECTRICAL DRAWINGS.
2. TOP OF FOOTING TO BE COORDINATED WITH PAVING AS SHOWN.
3. THIS DETAIL TO COORDINATE FOOTING WITH PAVING ONLY.

**2 LIGHT POLE FOOTING IN PAVER**

3/8" = 1'-0"

**- Final Drawing -  
Issued for Permit**

| Review Purposes Only |           |
|----------------------|-----------|
| #                    | DATE      |
| 1                    | 10-FEB-23 |
| 2                    | 24-APR-23 |
| 3                    | 12-JUN-23 |
| 4                    | 19-JUL-23 |
| 5                    | 19-JUL-23 |
| 6                    | 26-SEP-23 |
| 7                    | 26-SEP-23 |

| # | DATE      | DESCRIPTION                                   |
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| 5 | 19-JUL-23 | REVISED PER REVIEW COMMENTS                   |
| 6 | 26-SEP-23 | CART CORRAL DETAIL REVISED                    |
| 7 | 26-SEP-23 | REVISED PER REVIEW COMMENTS - SD SUBMITTAL #3 |

**SITE LIGHTING DETAILS**

**PUBLIX AT WALLBROOK**  
S Main St. / US 401 and Virginia Water Drive  
Rolesville, Wake County, North Carolina

**ARK CONSULTING GROUP PLLC**  
ENGINEERS & PLANNERS

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NC License: P-1199

9/20/2023

Project Manager: SMF  
Drawn By: CN/SP  
Checked By: SMF  
Project Number: L 22007  
Drawing Number:

L9.92

Date: February 10, 2023

| GENERAL |   |
|---------|---|
| 1.      | THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS (IF PROVIDED). SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO THE GENERAL NOTES.   |
| 2.      | DO NOT SCALE DIMENSIONS FROM DRAWINGS. THE CONTRACTOR SHALL REQUEST NECESSARY DIMENSIONS NOT SHOWN ON THE DRAWINGS.   |
| 3.      | WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE DRAWINGS.   |
| 4.      | WHERE A CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS OCCURS THE MORE STRINGENT REQUIREMENT SHALL APPLY.   |
| 5.      | IF ANY BIDDER IS IN DOUBT AS TO THE INTENT OF THE DRAWINGS OR SPECIFICATIONS, THEY SHALL REQUEST AN INTERPRETATION IN WRITING PRIOR TO THE SCHEDULED BID DATE.  |
| 6.      | THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND GRADE CONDITIONS (BOTH NEW AND EXISTING), REPORTING ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK. |
| 7.      | THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL DRAWINGS, AND REPORT ANY DISCREPANCIES TO THE ENGINEER OF RECORD PRIOR TO FABRICATION OR PROCEEDING WITH STRUCTURAL WORK.             |
| 8.      | SEE ARCHITECTURAL DRAWINGS FOR FLOOR ELEVATIONS, FLOOR SLOPES, AND THE LOCATION OF DEPRESSED FLOOR AREAS.   |

| CONTRACTOR RESPONSIBILITY |  |
|---------------------------|--|
| 1.                        | THE STRUCTURAL DRAWINGS AND SPECIFICATIONS (IF PROVIDED) REPRESENT THE FINISHED STRUCTURE, AND, EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, AND SEQUENCE. ALL APPLICABLE SAFETY REGULATIONS TO BE FOLLOWED STRICTLY.   |
| 2.                        | THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETED STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED BY THE CONTRACTOR AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK, AND ANY OTHER SUPPORTING ELEMENTS PROVIDED FOR CONSTRUCTION OF THE STRUCTURE. DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR MUST PROVIDE TEMPORARY BRACING FOR THE STRUCTURE IN ALL DIRECTIONS UNTIL THE STRUCTURAL WORK IS COMPLETE.  |
| 3.                        | ALL INTERIOR HANGING COMPONENTS (CEILING, DUCTWORK, PIPING, EQUIPMENT, ETC.) SHALL BE COORDINATED BY THE CONTRACTOR TO ENSURE LOADS APPLIED TO THE STRUCTURE DO NOT EXCEED THE LIMITS SHOWN IN THE DESIGN CRITERIA OR ELSEWHERE IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE CONNECTIONS TO THE SUPPORTING STRUCTURAL ELEMENTS AND THE ADEQUACY OF THE HANGING SYSTEM TO SUPPORT THE COMPONENTS.   |
| 4.                        | ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT FRAME TO THE UNDERSIDE OF STRUCTURE ABOVE, SHALL BE DETAILED AND FRAMED BY THE CONTRACTOR TO ALLOW FOR DEFLECTION OF THE STRUCTURAL FRAMING. SEE THE DESIGN CRITERIA FOR THE LIMITS USED IN THE DESIGN.  |
| 5.                        | PRINCIPAL OPENINGS IN THE STRUCTURE ARE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ALL REQUIRED OPENINGS. SUPPORT FRAMING FOR ALL OPENINGS SHALL BE PROVIDED AND INSTALLED PER TYPICAL DETAILS HEREIN WHETHER SHOWN ON THESE DRAWINGS OR NOT. THE CONTRACTOR SHALL VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUBCONTRACTORS AND THEIR APPROVED SHOP DRAWINGS PRIOR TO CONSTRUCTION.  |
| 6.                        | ALL EXTERIOR WALL AND ROOF COMPONENTS AND CLADDING ENGINEERED BY THE COMPONENT MANUFACTURER ARE TO BE DESIGNED BY THE MANUFACTURER'S ENGINEER FOR COMPONENTS AND CLADDING WIND LOADS NOTED IN THE DESIGN CRITERIA.   |
| 7.                        | ALL ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE/SEI 7 CHAPTER 13, "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY AN ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID THAT IS PROVIDING THE COMPONENT.   |
| 8.                        | SEVERAL ITEMS NOTED HEREIN (WHERE CHECKED) AND IN THE SPECIFICATIONS REQUIRE THE CONTRACTOR TO ENGAGE A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED, TO PROVIDE DESIGN AND/OR DETAILING OF STRUCTURAL ELEMENTS. SEE INDIVIDUAL NOTES AND SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. DELEGATED DESIGN ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO: <ul style="list-style-type: none"> <li><input type="checkbox"/> SPECIALTY FOUNDATION SYSTEM</li> <li><input type="checkbox"/> POST-TENSIONED CONCRETE</li> <li><input type="checkbox"/> STRUCTURAL PRECAST CONCRETE</li> <li><input type="checkbox"/> ARCHITECTURAL PRECAST CONCRETE</li> <li><input type="checkbox"/> STRUCTURAL STEEL (CONNECTIONS)</li> <li><input checked="" type="checkbox"/> PREFABRICATED METAL BUILDING</li> <li><input checked="" type="checkbox"/> STEEL STAIRS AND RAILINGS</li> <li><input type="checkbox"/> STEEL JOISTS AND STEEL JOIST GIRDERS</li> <li><input type="checkbox"/> ROOF ANCHORS</li> <li><input type="checkbox"/> NON-LOAD BEARING COLD-FORMED STEEL</li> <li><input type="checkbox"/> LOAD BEARING COLD-FORMED STEEL</li> <li><input type="checkbox"/> LIGHT GAUGE COLD-FORMED STEEL TRUSSES</li> <li><input type="checkbox"/> PREFABRICATED WOOD TRUSSES</li> <li><input checked="" type="checkbox"/> MECHANICALLY STABILIZED EARTH WALLS</li> <li><input checked="" type="checkbox"/> PERMANENT SOIL SHORING RETENTION SYSTEM</li> </ul> |
| 9.                        | THIS PROJECT REQUIRES SPECIAL INSPECTIONS AS DESCRIBED IN CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE. SEE STATEMENT OF SPECIAL INSPECTIONS FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL COORDINATE WITH SPECIAL INSPECTOR ALL WORK REQUIRING SPECIAL INSPECTIONS AND TESTING.   |

| DESIGN CRITERIA                                    |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
|--|---|--|---|--------------------------|---|-------------------|--------|--------------------------------|------------|----------|---------|-------------------|--------------|------------|-------------|-------------------------|---|
| 1.   | PROJECT LOCATION: ROLESVILLE, NORTH CAROLINA  |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 2.   | APPLICABLE CODES: <ul style="list-style-type: none"> <li>2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE WITH REVISIONS)</li> <li>MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE/SEI 7-10)</li> <li>BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)</li> <li>BUILDING CODE REQUIREMENTS/SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530/530.1-13)</li> <li>SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (AISC 360-10)</li> <li>NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (ANSI/AWC NDS-2015)</li> <li>NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS (AISI S100-21)</li> </ul> |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 3.   | RISK CATEGORY: II   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 4.   | LIVE LOADS: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th></th> <th>UNIFORM (PSF)</th> <th>CONCENTRATED (LB)</th> </tr> </thead> <tbody> <tr> <td>PARKING STAIRS</td> <td>40</td> <td>3000</td> </tr> <tr> <td></td> <td>100</td> <td>300</td> </tr> </tbody> </table>   |  | UNIFORM (PSF)   | CONCENTRATED (LB)        | PARKING STAIRS                                      | 40                | 3000   |                                | 100        | 300      |         |                   |              |            |             |                         |   |
|  | UNIFORM (PSF)   | CONCENTRATED (LB)                                  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| PARKING STAIRS                                     | 40  | 3000   |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
|  | 100   | 300  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 5.   | SNOW LOAD: <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td><math>p_g</math> = 15 PSF</td> </tr> <tr> <td><math>I_s</math> = 1.00</td> </tr> <tr> <td><math>C_e</math> = 1.00</td> </tr> <tr> <td><math>C_d</math> = 1.00</td> </tr> <tr> <td><math>p_r</math> = 15 PSF</td> </tr> </tbody> </table>  | $p_g$ = 15 PSF                                     | $I_s$ = 1.00  | $C_e$ = 1.00             | $C_d$ = 1.00  | $p_r$ = 15 PSF    |        |                                |            |          |         |                   |              |            |             |                         |   |
| $p_g$ = 15 PSF                                     |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $I_s$ = 1.00                                       |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $C_e$ = 1.00                                       |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $C_d$ = 1.00                                       |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $p_r$ = 15 PSF                                     |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 6.   | WIND LOAD: <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>ULTIMATE DESIGN WIND SPEED</td> <td><math>V_{ult}</math> = 115 MPH (NOMINAL DESIGN WIND SPEED, <math>V_{ref}</math> = 89 MPH)</td> </tr> <tr> <td>SERVICABILITY WIND SPEED</td> <td><math>V</math> = 76 MPH (MEAN RECURRENCE INTERVAL OF 10 YEARS)</td> </tr> <tr> <td>EXPOSURE CATEGORY</td> <td>B</td> </tr> <tr> <td>INTERNAL PRESSURE COEFFICIENTS</td> <td><math>\pm 0.18</math></td> </tr> </tbody> </table>  | ULTIMATE DESIGN WIND SPEED                         | $V_{ult}$ = 115 MPH (NOMINAL DESIGN WIND SPEED, $V_{ref}$ = 89 MPH) | SERVICABILITY WIND SPEED | $V$ = 76 MPH (MEAN RECURRENCE INTERVAL OF 10 YEARS) | EXPOSURE CATEGORY | B      | INTERNAL PRESSURE COEFFICIENTS | $\pm 0.18$ |          |         |                   |              |            |             |                         |   |
| ULTIMATE DESIGN WIND SPEED                         | $V_{ult}$ = 115 MPH (NOMINAL DESIGN WIND SPEED, $V_{ref}$ = 89 MPH)   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| SERVICABILITY WIND SPEED                           | $V$ = 76 MPH (MEAN RECURRENCE INTERVAL OF 10 YEARS)   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| EXPOSURE CATEGORY                                  | B   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| INTERNAL PRESSURE COEFFICIENTS                     | $\pm 0.18$  |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 7.   | SEISMIC LOAD: <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE</td> <td></td> </tr> <tr> <td><math>S_s</math></td> <td>14.4 %g</td> </tr> <tr> <td><math>S_1</math></td> <td>7.3 %g</td> </tr> <tr> <td><math>S_{D5}</math></td> <td>15.4 %g</td> </tr> <tr> <td><math>S_{D1}</math></td> <td>11.6 %g</td> </tr> <tr> <td>IMPORTANCE FACTOR</td> <td><math>I_e</math> = 1.00</td> </tr> <tr> <td>SITE CLASS</td> <td>D (ASSUMED)</td> </tr> <tr> <td>SEISMIC DESIGN CATEGORY</td> <td>B</td> </tr> </tbody> </table>   | DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE |   | $S_s$                    | 14.4 %g   | $S_1$             | 7.3 %g | $S_{D5}$                       | 15.4 %g    | $S_{D1}$ | 11.6 %g | IMPORTANCE FACTOR | $I_e$ = 1.00 | SITE CLASS | D (ASSUMED) | SEISMIC DESIGN CATEGORY | B |
| DESIGN METHOD - EQUIVALENT LATERAL FORCE PROCEDURE |   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $S_s$  | 14.4 %g   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $S_1$  | 7.3 %g  |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $S_{D5}$   | 15.4 %g   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| $S_{D1}$   | 11.6 %g   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| IMPORTANCE FACTOR                                  | $I_e$ = 1.00  |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| SITE CLASS   | D (ASSUMED)   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| SEISMIC DESIGN CATEGORY                            | B   |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |
| 8.   | FUTURE LOADS: <p>UNLESS SPECIFICALLY NOTED, THERE ARE NO PROVISIONS MADE FOR FUTURE FLOORS, ROOFS, OR OTHER LOADS.</p>  |  |   |                          |   |                   |        |                                |            |          |         |                   |              |            |             |                         |   |

| FOUNDATIONS                  |  |                        |         |                             |      |                              |      |                              |      |                         |      |
|------------------------------|--|------------------------|---------|-----------------------------|------|------------------------------|------|------------------------------|------|-------------------------|------|
| 1.                           | FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE NET ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF, ACCORDING TO TABLE 1806.2 OF THE INTERNATIONAL BUILDING CODE. THIS PRESUMPTIVE BEARING PRESSURE MUST BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION CONCRETE PLACEMENT. THE STRUCTURE AND SITE SATISFY THE FOLLOWING CRITERIA FOR THE USE OF TABLE 1806.2: COLUMN LOADS ARE LESS THAN 50 KIPS, WALL LOADS ARE LESS THAN 3 KLF, AND FINISHED GRADES DO NOT DIFFER FROM NATURAL GRADE BY MORE THAN 5 FEET.         |                        |         |                             |      |                              |      |                              |      |                         |      |
| 2.                           | FOOTINGS SHALL BE CARRIED TO LOWER ELEVATIONS THAN THOSE SHOWN ON THE DRAWINGS IF REQUIRED BY THE GEOTECHNICAL ENGINEER OR TESTING LAB TO REACH SOIL CAPABLE OF PROVIDING THE DESIGN NET ALLOWABLE SOIL BEARING PRESSURE. ALL EXPANSIVE AND/OR LOOSE SOILS BELOW STRUCTURAL FOUNDATIONS SHALL BE REMOVED AND REPLACED AS DIRECTED HEREIN.  |                        |         |                             |      |                              |      |                              |      |                         |      |
| 3.                           | MINIMUM SUBGRADE PREPARATION REQUIREMENTS ARE AS FOLLOWS: <ol style="list-style-type: none"> <li>1. PREPARE SUBGRADE AND UNDERFLOOR FLAT TO A POINT THAT EXTENDS 3'-0" (MINIMUM) BEYOND THE LIMITS OF THE FOUNDATIONS.</li> <li>2. PLACE IN LIFTS OF 8" (MAXIMUM) LOOSE THICKNESS WHEN USING LARGE RIDING COMPACTORS (REDUCE THICKNESS AS NECESSARY FOR SMALLER EQUIPMENT).</li> <li>3. SLABS ON GRADE SHALL BE SUPPORTED ON A BASE LAYER OF POROUS FILL (WASHED STONE OR CLEAN SAND) WITH A MINIMUM THICKNESS OF 4".</li> </ol> |                        |         |                             |      |                              |      |                              |      |                         |      |
| 4.                           | FIELD COMPACTION SHALL BE VERIFIED WITH AT LEAST ONE TEST PER 2,000 SQUARE FEET PER LIFT (AT LEAST ONE PER LIFT), IN ACCORDANCE WITH ASTM D1556 (SAND-CONE METHOD), ASTM D6938 (NUCLEAR METHODS, SHALLOW DEPTH), ASTM D2167 (RUBBER BALLOON METHOD), AND/OR ASTM D2937 (DRIVE-CYLINDER METHOD). SEE SPECIFICATIONS FOR OTHER TESTING REQUIREMENTS.   |                        |         |                             |      |                              |      |                              |      |                         |      |
| 5.                           | WALLS RETAINING SOIL SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH UNLESS NOTED OTHERWISE ON PLANS AND DETAILS.   |                        |         |                             |      |                              |      |                              |      |                         |      |
| 6.                           | WALLS RETAINING SOIL HAVE BEEN DESIGNED UTILIZING THE FOLLOWING PARAMETERS: <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>MOIST SOIL UNIT WEIGHT</td> <td>120 PCF</td> </tr> <tr> <td>ACTIVE PRESSURE COEFFICIENT</td> <td>0.33</td> </tr> <tr> <td>AT-REST PRESSURE COEFFICIENT</td> <td>0.55</td> </tr> <tr> <td>PASSIVE PRESSURE COEFFICIENT</td> <td>2.50</td> </tr> <tr> <td>COEFFICIENT OF FRICTION</td> <td>0.25</td> </tr> </tbody> </table>  | MOIST SOIL UNIT WEIGHT | 120 PCF | ACTIVE PRESSURE COEFFICIENT | 0.33 | AT-REST PRESSURE COEFFICIENT | 0.55 | PASSIVE PRESSURE COEFFICIENT | 2.50 | COEFFICIENT OF FRICTION | 0.25 |
| MOIST SOIL UNIT WEIGHT       | 120 PCF  |                        |         |                             |      |                              |      |                              |      |                         |      |
| ACTIVE PRESSURE COEFFICIENT  | 0.33   |                        |         |                             |      |                              |      |                              |      |                         |      |
| AT-REST PRESSURE COEFFICIENT | 0.55   |                        |         |                             |      |                              |      |                              |      |                         |      |
| PASSIVE PRESSURE COEFFICIENT | 2.50   |                        |         |                             |      |                              |      |                              |      |                         |      |
| COEFFICIENT OF FRICTION      | 0.25   |                        |         |                             |      |                              |      |                              |      |                         |      |
| 7.                           | UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS OF ALL SUCH CONDITIONS PRIOR TO CONSTRUCTION.  |                        |         |                             |      |                              |      |                              |      |                         |      |

| CONCRETE   REINFORCING STEEL                     |  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
|--|--|-------------------------------------|---------------|-----------|----------------------------|----------|-------------------|--|-----|-----------|------------------------------------|-----|-----------|
| 1.   | ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REFERENCED EDITION OF THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318).  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 2.   | CONCRETE MIXTURES AS REQUIRED (BASED ON CLASS DESIGNATION): <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>CLASS A - FOOTINGS, GRADE/TIE BEAMS</td> <td>NWC</td> <td>3,000 PSI</td> </tr> <tr> <td>CLASS B - FOUNDATION WALLS</td> <td>NWC</td> <td>4,500 PSI</td> </tr> <tr> <td>CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPING</td> <td>NWC</td> <td>4,500 PSI</td> </tr> <tr> <td>CLASS J - EXTERIOR RETAINING WALLS</td> <td>NWC</td> <td>4,500 PSI</td> </tr> </tbody> </table> | CLASS A - FOOTINGS, GRADE/TIE BEAMS | NWC           | 3,000 PSI | CLASS B - FOUNDATION WALLS | NWC      | 4,500 PSI         | CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPING | NWC | 4,500 PSI | CLASS J - EXTERIOR RETAINING WALLS | NWC | 4,500 PSI |
| CLASS A - FOOTINGS, GRADE/TIE BEAMS              | NWC  | 3,000 PSI                           |               |           |                            |          |                   |  |     |           |                                    |     |           |
| CLASS B - FOUNDATION WALLS                       | NWC  | 4,500 PSI                           |               |           |                            |          |                   |  |     |           |                                    |     |           |
| CLASS F - EXTERIOR SLABS ON GRADE, PADS, TOPPING | NWC  | 4,500 PSI                           |               |           |                            |          |                   |  |     |           |                                    |     |           |
| CLASS J - EXTERIOR RETAINING WALLS               | NWC  | 4,500 PSI                           |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 3.   | REINFORCING: <ul style="list-style-type: none"> <li>TYPICAL - ASTM A615, GRADE 60</li> <li>REINFORCING TO BE WELDED - ASTM A706</li> <li>DEFORMED BAR ANCHORS - ASTM A496</li> <li>WELDED WIRE FABRIC - ASTM A1064 (FLAT SHEETS ONLY)</li> </ul>   |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 4.   | REFER TO THE DRAWINGS FOR REINFORCING LAP REQUIREMENTS. WHERE LAP SPLICES ARE NOT SHOWN, LAP PER ACI 318 OR CRSI STANDARDS.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 5.   | LAP WELDED WIRE FABRIC SHEETS 8" MINIMUM.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 6.   | CAST IN PLACE CONCRETE (INCLUDE 3 OUTERMOST REINFORCING) - <ul style="list-style-type: none"> <li>CONCRETE CAST AGAINST AND EXPOSED TO EARTH 3"</li> <li>CONCRETE EXPOSED TO EARTH/WEATHER 2" FOR #6 BARS AND LARGER, 1 1/2" ELSE</li> <li>CONCRETE NOT EXPOSED TO EARTH/WEATHER 3/4" FOR SLABS AND WALLS, 1 1/2" (TO TIES) FOR BEAMS AND COLUMNS</li> </ul>   |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 7.   | PROVIDE REINFORCING IN SLABS ON GRADE, 1-1/2" FROM TOP OF SLAB: <table border="1" style="margin-left: 20px;"> <tbody> <tr> <td>4" SLABS</td> <td>6x6-W2.1xW2.1</td> </tr> <tr> <td>5" SLABS</td> <td>6x6-W2.9xW2.9</td> </tr> <tr> <td>6" SLABS</td> <td>#3@12"OC EACH WAY</td> </tr> </tbody> </table>  | 4" SLABS                            | 6x6-W2.1xW2.1 | 5" SLABS  | 6x6-W2.9xW2.9              | 6" SLABS | #3@12"OC EACH WAY |  |     |           |                                    |     |           |
| 4" SLABS   | 6x6-W2.1xW2.1  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 5" SLABS   | 6x6-W2.9xW2.9  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 6" SLABS   | #3@12"OC EACH WAY  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 8.   | WHERE SCHEDULED BARS ARE NOT PRESENT, PROVIDE CONTINUOUS #5 TOP AND BOTTOM BARS TO SUPPORT STIRRUPS AS REQUIRED FOR THE LENGTH OF THE STIRRUP SPACING IN ALL BEAMS.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 9.   | WALL FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH ADJACENT COLUMN FOOTINGS.   |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 10.  | PROVIDE VERTICAL DOVETAIL SLOTS AT 24"OC WITH TIES AT 16"OC VERTICALLY IN ALL CONCRETE WALLS BACKING-UP MASONRY VENEER.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 11.  | BAR SUPPORTS FOR CONCRETE EXPOSED TO VIEW SHALL HAVE PLASTIC COATED LEGS OR BE HOT-DIP GALVANIZED AFTER FABRICATION.   |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 12.  | MECHANICAL AND ELECTRICAL CONDUIT IN SLABS ON GRADE SHALL RUN UNDER TOP LAYER OF SLAB REINFORCING. PROVIDE A MINIMUM OF 1-1/2" CLEAR BETWEEN CONDUITS AND BETWEEN REINFORCING AND ADJACENT CONDUITS PARALLEL TO REINFORCING. IF MAXIMUM SIZE OF CONDUIT EXCEEDS ONE THIRD OF THE SLAB DEPTH, ADDITIONAL FRAMING OR REINFORCING MAY BE NECESSARY AT ENGINEER'S DISCRETION.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 13.  | HEADED CONCRETE ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A108, GRADES 1010, 1015, 1017, OR 1020. STUDS SHALL BE AUTOMATICALLY END WELDED IN THE SHOP OR FIELD IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 14.  | EMBED PLATES MUST BE SET IN THE FORM BEFORE POURING CONCRETE, NOT PLACED INTO TOP OF WET CONCRETE. THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CORRECTIVE DETAILS FOR ANY EMBED PLATES LEFT OUT OF CONCRETE POURS.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 15.  | FOR SLABS ON GRADE, SLAB AND FOOTING REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS WITH SAND PLATES, OR PRECAST CONCRETE BAR SUPPORTS AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED AT A MAXIMUM OF 4'-0"OC BOTH WAYS. ROCKS, CMU, OR CLAY BRICK WILL NOT BE USED AS SUPPORTS.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 16.  | REBAR SHALL NOT BE HEATED WITH A TORCH IN THE FIELD.   |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |
| 17.  | THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER FAR ENOUGH IN ADVANCE (48 HOURS) OF EACH CONCRETE POUR TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT PRIOR TO 90% OF THE STEEL HAVING BEEN PLACED.  |                                     |               |           |                            |          |                   |  |     |           |                                    |     |           |

| CONCRETE CONSTRUCTION JOINTS |   |
|------------------------------|---|
| 1.                           | CONTRACTOR SHALL PROVIDE NECESSARY CONSTRUCTION JOINTS IN MONOLITHIC CONCRETE POURS SO THAT THE QUALITY OF PLACEMENT AND FINISH MEETS THE REQUIREMENTS OF PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT A PLAN SHOWING THE LOCATION OF ALL CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL. |
| 2.                           | THERE SHALL BE NO HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE POURS. ALL VERTICAL CONSTRUCTION JOINTS IN SLABS AND BEAMS SHALL BE MADE WITH BULKHEADS. ADDITIONAL REINFORCING AT CONSTRUCTION JOINTS SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER. SEE TYPICAL CONSTRUCTION JOINT DETAILS.                   |

| MECHANICALLY STABILIZED EARTH WALLS |  |
|-------------------------------------|--|
| 1.                                  | PRECAST CONCRETE DESIGN AND FABRICATION SHALL CONFORM TO THE REFERENCED EDITION OF BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318). THE DESIGN SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. DESIGN CALCULATIONS, STAMPED BY THE REGISTERED ENGINEER, SHALL BE SUBMITTED FOR REVIEW OF THE ENGINEER UPON REQUEST. |
| 2.                                  | THE DESIGN AND DETAILING OF ALL SOIL REINFORCING ELEMENTS AND PRECAST CONCRETE AND ITS CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE MSE FABRICATOR. THIS SHALL INCLUDE ALL BOLTS, PLATES, BRACES, REINFORCING, WELD SIZES, AND ANY EMBEDDED ITEMS IN BOTH PRECAST AND SOIL REINFORCING FABRIC WALL. ALL ELEMENTS SHOWN ON THE DRAWINGS ARE CONCEPTUAL IN NATURE AND FOR BIDDING PURPOSES ONLY. |
| 3.                                  | ALL PRECAST MEMBERS SHALL HAVE AT LEAST TWO CONNECTIONS PER MEMBER. MAXIMUM SPACING OF CONNECTIONS SHALL BE 36"OC. ALL EXPOSED CONNECTORS SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. ADDITIONAL REINFORCING SHALL BE ADDED TO PRECAST MEMBERS AS REQUIRED FOR ERECTION STRESSES AS WELL AS STRESSES INDUCED BY THE CONNECTIONS.   |
| 4.                                  | DESIGN MODIFICATIONS MAY BE MADE ONLY AS NECESSARY TO MEET FIELD CONDITIONS AND TO ENSURE PROPER FITTING OF THE WORK, AND ONLY AS ACCEPTABLE TO THE ENGINEER. MAINTAIN GENERAL DESIGN CONCEPT SHOWN WITHOUT INCREASING OR DECREASING SIZES OF MEMBERS OR ALTERING PROFILES AND ALIGNMENT SHOWN.  |

| STEEL STAIRS AND RAILINGS |  |
|---------------------------|--|
| 1.                        | STEEL STAIRS AND LANDINGS AND ALL CONNECTIONS SHALL BE DESIGNED BY THE SUPPLIER FOR A LIVE LOAD OF 100 PSF. TREADS SHALL BE DESIGNED FOR A 300 POUND POINT LOAD DISTRIBUTED OVER 4 SQUARE INCHES. ALL STAIR SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WITH THE STAIR SHOP DRAWINGS.                          |
| 2.                        | ALL RAILINGS (STEEL OR OTHERWISE) AND THEIR CONNECTIONS SHALL BE DESIGNED FOR A LATERAL LOAD OF 50 PLF APPLIED TO THE TOP OF THE RAIL OR A 200 POUND LOAD AT ANY POINT IN ANY DIRECTION, WHICHEVER GOVERNS THE DESIGN. ALL RAILING SHOP DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. CALCULATIONS SHALL BE SUBMITTED FOR REVIEW WITH THE RAILING SHOP DRAWINGS. |
| 3.                        | INTERIOR STAIRS THAT USE CONCRETE FILL FOR THE LANDINGS AND/OR TREADS SHALL BE REINFORCED WITH EITHER MICROSYNTHETIC MONOFILAMENT FIBERS (AT A MINIMUM DOSAGE RATE OF 1.0 LBS/CY) OR 4x4-W1.4kxW1.4 WELDED WIRE FABRIC. THE CONTRACTOR SHALL COORDINATE THIS SCOPE BETWEEN THE CONCRETE AND STEEL STAIR SUPPLIERS.   |

| SYMBOL LEGEND           |   |           |
|-------------------------|---|-----------|
| SYMBOL                  | MEANING   | REFERENCE |
| <No>                    | TOP OF FOOTING, GRADE BEAM, PILE CAP, OR DRILLED PIER. ELEVATION RELATIVE TO REFERENCE ELEVATION. | SEE PLAN  |
| <No> $\frac{1}{2}$ <No> | STEP IN TOP OF FOOTING ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.                      | SEE PLAN  |
| [No]                    | TOP OF WALL OR PEDESTAL. ELEVATION RELATIVE TO REFERENCE ELEVATION.                               | SEE PLAN  |
| $\ominus$               | SPOT ELEVATION. ELEVATION RELATIVE TO REFERENCE ELEVATION.  | SEE PLAN  |

| ADHESIVE AND MECHANICAL POST-INSTALLED ANCHORS |   |
|--|---|
| 1.   | ANCHOR BOLTS, REINFORCING STEEL, THREADED RODS, STAIR HANDRAILS, AND OTHER EMBEDDED STEEL ITEMS SHALL BE SET INTO HARDENED CONCRETE WITH ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS ONLY WHERE DETAILED ON THE DRAWINGS OR WHERE APPROVED BY THE ENGINEER OF RECORD.   |
| 2.   | PRE-APPROVED MANUFACTURERS ARE HILTI, SIMPSON STRONG-TIE, AND DEWALT. WHERE DETAILS INDICATE SPECIFIC ADHESIVE OR MECHANICAL POST-INSTALLED ANCHORS, IT IS ACCEPTABLE AT THE CONTRACTOR'S OPTION TO SUBMIT AN ALTERNATE SIMILAR PRODUCT PROVIDED BY A DIFFERENT MANUFACTURER AS LONG AS THE MANUFACTURER'S DATA PROVIDES EQUIVALENT LOAD CAPACITY TO THE ANCHOR SPECIFIED. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED CALCULATIONS THAT DEMONSTRATE THE ALTERNATE PRODUCT IS CAPABLE OF MEETING THE PERFORMANCE OF THE SPECIFIED ANCHOR. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC-ES SHOWING COMPLIANCE WITH THE GOVERNING BUILDING CODE FOR SEISMIC USE, LOAD RESISTANCE, INSTALLATION CATEGORY, AND THE AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE, INSTALLATION TEMPERATURE, MOISTURE CONDITION OF CONCRETE, AND DRILLING METHODS. |
| 3.   | BASIS OF DESIGN FOR ADHESIVE ANCHORS DETAILED ON THE DRAWINGS INCLUDES THE FOLLOWING PARAMETERS: CRACKED CONCRETE; WATER-SATURATED CONCRETE; BASE MATERIAL BETWEEN 25 AND 100 DEGREES FAHRENHEIT; AND HOLES MADE BY HAMMER DRILL, HOLLOW DRILL BIT SYSTEM, OR CORE-DRILLING.  |
| 4.   | INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING. HEED ALL LABEL WARNINGS. INSTALL IN ACCORDANCE WITH APPLICABLE SAFETY LAWS. ALL HOLES SHALL BE DRILLED WITH A DIAMETER NO LARGER THAN 1/8" GREATER THAN THE DIAMETER OF THE ANCHOR BEING INSTALLED. ALL HOLES SHALL BE CLEANED WITH COMPRESSED AIR AND SHALL BE DRY PRIOR TO INSTALLATION OF ADHESIVE. HOLES SHALL BE FREE OF ALL DELETERIOUS MATERIAL SUCH AS LAITANCE, DUST, DIRT, AND OIL.  |
| 5.   | ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.  |
| 6.   | WHERE ADHESIVE ANCHORS ARE TO BE INSTALLED IN HOLLOW MATERIAL WITH UNKNOWN CAPACITY, THE CONTRACTOR SHALL INSTALL THE ANCHOR IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. THE ADHESIVE SHALL BE INSTALLED IN THE HOLLOW BASE MATERIAL USING SCREEN TUBES SUPPLIED BY THE MANUFACTURER. THE ADHESIVE SHALL BE CAPABLE OF SUSTAINING MINIMUM TENSION AND SHEAR LOAD CAPACITIES NOTED ON THE DRAWINGS MULTIPLIED BY A FACTOR OF SAFETY OF 4. ALL HARDWARE AND MATERIAL SHALL BE SUPPLIED BY THE ANCHOR MANUFACTURER.   |
| 7.   | CONTRACTOR PERFORMING ADHESIVE WORK SHALL BE AN APPROVED CONTRACTOR BY THE MANUFACTURER FURNISHING THE ADHESIVE MATERIALS, AND SHALL HAVE NO LESS THAN FIVE YEARS EXPERIENCE IN THE VARIOUS TYPES OF ADHESIVE RELATED WORK REQUIRED IN THIS PROJECT. ALTERNATIVELY, THE CONTRACTOR SHALL ARRANGE FOR A REPRESENTATIVE OF THE ANCHOR MANUFACTURER TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL ANCHOR PRODUCTS SPECIFIED. DOCUMENTATION THAT ALL PERSONNEL INSTALLING ANCHORS ARE TRAINED SHALL BE SUBMITTED TO THE ENGINEER OF RECORD PRIOR TO THE COMMENCEMENT OF ANCHOR INSTALLATION.  |

| REPRODUCTION |   |
|--------------|---|
| 1.           | THE USE OF REPRODUCTIONS OF THESE CONTRACT DRAWINGS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HERE ON. |

| ABBREVIATIONS |  |   |
|---------------|--|---|
| @             | AT   | HD HEADED                               |
| &             | AND  | HI HIGH                                 |
| Ø             | DIAMETER                                   | HORIZ HORIZONTAL                        |
| AB            | ANCHOR BOLTS                               | HSS HOLLOW STRUCTURAL SECTION           |
| ACI           | AMERICAN CONCRETE INSTITUTE                | INT INTERIOR                            |
| ADDL          | ADDITIONAL                                 | JT JOINT                                |
| ADH           | ADHESIVE                                   | KB KIP(S)                               |
| AFF           | ABOVE FINISHED FLOOR                       | K                                       |
| AISC          | AMERICAN INSTITUTE OF STEEL CONSTRUCTION   | KSI KIPS PER SQUARE INCH                |
| AISI          | AMERICAN IRON AND STEEL INSTITUTE          | LB LONG BAR                             |
| ALT           | ALTERNATE                                  | LBS POUNDS                              |
| ARCH          | ARCHITECT'S / ARCHITECTURAL                | LLH LONG LEG HORIZONTAL                 |
| ASTM          | AMERICAN SOCIETY FOR TESTING AND MATERIALS | LLV LONG LEG VERTICAL                   |
| AWS           | AMERICAN WELDING SOCIETY                   | LO LOW                                  |
| B / or BOT    | BOTTOM                                     | LOC LOCATION                            |
| BCX           | BOTTOM CHORD EXTENSION                     | LSH LONG SIDE HORIZONTAL                |
| BBF           | BOTTOM FLANGE BRACE                        | LSV LONG SIDE VERTICAL                  |
| BFF           | BELOW FINISHED FLOOR                       | LWC LIGHT WEIGHT CONCRETE               |
| BLDG          | BUILDING                                   | MAX MAXIMUM                             |
| BM            | BEAM                                       | MC MOMENT CONNECTION                    |
| BOS           | BOTTOM OF STEEL                            | MCI MASONRY CONTROL JOINT               |
| BRG           | BEARING                                    | MECH MECHANICAL                         |
| BTWN          | BETWEEN                                    | MFR MANUFACTURER                        |
| CANT          | CANTILEVER                                 | MID MIDDLE                              |
| CL            | CONTROL JOINT                              | MIN MINIMUM                             |
| CL            | CENTERLINE                                 | MISC MISCELLANEOUS                      |
| CLR           | CLEAR                                      | MOW MIDDLE OF WALL                      |
| CMU           | CONCRETE MASONRY UNIT                      | MP MASONRY PLASTER                      |
| COL           | COLUMN                                     | MSE MECHANICALLY STABILIZED EARTH WALLS |
| CONC          | CONCRETE                                   | No or # NUMBER                          |
| CONN          | CONNECTION                                 | NS NEAR SIDE                            |
| CONST JT      | CONSTRUCTION JOINT                         | NTS NOT TO SCALE                        |
| CONT          | CONTINUOUS                                 | NWC NORMAL WEIGHT CONCRETE              |
| CONTR         | CONTRACTOR                                 | OC ON CENTER                            |
| COORD         | COORDINATE                                 | OPNG OPENING                            |
| CTRD          | CENTERED                                   | OPP OPPOSITE HAND                       |
| d             | NAILS (PENNY)                              | PAF POWDER ACTUATED FASTENER            |
| DBA           | DEFORMED BAR ANCHOR                        | PED PEDESTAL                            |
| DEFL          | DEFLECTION                                 | PL PLATE                                |
| DEPR          | DEPRESSION / DEPRESSED                     | PSF POUNDS PER SQUARE FOOT              |
| DET           | DETAIL                                     | PSI POUNDS PER SQUARE INCH              |
| DIAG          | DIAGONAL                                   | PT PRESSURE TREATED                     |
| DIM           | DIMENSION                                  | P-T POST-TENSIONED                      |
| DIST          | DISTANCE                                   | REF REFERENCE                           |
| DWG(S)        | DRAWING(S)                                 | REF REINFORCING                         |
| DWL(S)        | DOWEL(S)                                   | REQD REQUIRED                           |
| EA            | EACH                                       | SB SHORT BAR                            |
| EE            | EACH END                                   | SCHD SCHEDULE                           |
| EF            | EACH FACE                                  | SIM SIMILAR                             |
| EJ            | EXPANSION JOINT                            | SOG SLAB ON GRADE                       |
| ELEV          | ELEVATION                                  | SQC(S) SPECIFICATION(S)                 |
| EMBED         | EMBEDDED / EMBEDMENT                       | SQ SQUARE                               |
| ENGR          | ENGINEER                                   | STD STANDARD                            |
| EOD           | EDGE OF DECK                               | STIFF STIFFENER                         |
| EOS           | EDGE OF SLAB                               | STRIP STRIP(S)                          |
| EQ            | EQUAL                                      | STL STEEL                               |
| EQUIP         | EQUIPMENT                                  | STR STRUCTURAL                          |
| EW            | EACH WAY                                   | T/ TOP                                  |
| EXIST         | EXISTING                                   | TCX TOP CHORD EXTENSION                 |
| EXP           | EXPANSION                                  | TOC TOP CHORD CONCRETE                  |
| EXT           | EXTERIOR                                   | TOP TOP OF FOOTING                      |
| FDN           | FOUNDATION                                 | TOS TOP OF STEEL                        |
| FFE           | FINISHED FLOOR ELEVATION                   | TOW TOP OF WALL                         |
| FOM           | FACE OF MASONRY                            | TYP TYPICAL                             |
| FS            | FACE OF WALL                               | UNO UNLESS NOTED OTHERWISE              |
| FS            | FACE SIDE                                  | VERT VERTICAL                           |
| FTG           | FOOTING                                    | VIF VERIFY IN FIELD                     |
| GA            | GAUGE                                      | W/ WITH                                 |
| GALV          | GALVANIZED                                 | WWF WELDED WIRE FABRIC                  |
| GT            | GIRDER TRUSS                               | WP WORK POINT                           |

**STEWART**  
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 5/24/2023



- Final Drawing -  
 Issued for Permit  
 Review Purposes Only  
 2 7-MAY-23 REVISED PER REVIEW COMMENTS  
 1 10-FEB-23 SHIFTED BUILDING LOCATION PER OWNER REQUEST  
 PERMIT REVIEW SUBMISSION DESCRIPTION  
 # DATE

REVISIONS:  
**CROSLAND SOUTHEAST**

**PUBLIX AT WALLBROOK**  
 S Main St. / US 401 and Virginia Water Drive  
 Rolesville, Wake County, North Carolina

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Project Manager: PAA  
 Drawn By: TM  
 Checked By: LAF  
 Project Number: L22007  
 D-1219-CD  
 GENERAL NOTES, ABBREVIATIONS AND SYMBOL LEGEND  
**\$0.00**  
 Date: May 24, 2023

| STATEMENT OF SPECIAL INSPECTIONS   |                            |
|--|----------------------------|
| THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE DESIGNERS OF RECORD.   |                            |
| THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL FURNISH REPORTS TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. REPORTS SHALL INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR. |                            |
| MONTHLY INTERIM REPORTS SHALL BE SUBMITTED TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.  |                            |
| <b>PROJECT INFORMATION</b>   |                            |
| CODE ENFORCEMENT PROJECT #:  | TBD                        |
| PERMIT #:  | TBD                        |
| PROJECT NAME:  | WALLBROOK SHOPPING CENTER  |
| PROJECT ADDRESS:   | ROLESVILLE, NORTH CAROLINA |
| OWNER:   | ---                        |
| OWNER ADDRESS:   | ---                        |
| SPECIAL INSPECTOR OF RECORD:   | TBD                        |
| SPECIAL INSPECTOR ADDRESS:   | ---                        |
| <b>DESIGN TEAM</b>   |                            |
| STRUCTURAL (RDP/IRC) FIRM:   | STEWART                    |
| ARCHITECTURAL FIRM:  | ---                        |
| MECHANICAL FIRM:   | ---                        |
| ENGINEER OF RECORD:  | TRINA AGNELLO, PE          |
| ARCHITECT OF RECORD:   | ---, AIA                   |
| ENGINEER OF RECORD:  | ---, PE                    |

| SCHEDULE OF SPECIAL INSPECTIONS  |  |
|--|--|
| THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.  |  |
| PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER. |  |
| THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.  |  |
| THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:   |  |

| REQD                                | ITEM   | DIVISION   | PRIMARY INSPECTOR/SUPERVISOR   |
|-------------------------------------|--------|--|--|
| <input checked="" type="checkbox"/> | IT-1   | SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED            | AS IDENTIFIED BY THE RDP/IRC   |
| <input type="checkbox"/>            | IT-2A  | STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING                     | ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)   |
| <input type="checkbox"/>            | IT-2B  | WELDING OF STRUCTURAL STEEL                                    | ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1 CERTIFIED WELDING INSPECTOR, OR NDT LEVEL III CERTIFICATE  |
| <input type="checkbox"/>            | IT-2C  | COLD-FORMED STEEL DECKING                                      | ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)  |
| <input type="checkbox"/>            | IT-2D  | OPEN-WEB STEEL JOISTS AND JOIST GIRDERS                        | ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)   |
| <input type="checkbox"/>            | IT-2E  | COLD-FORMED STEEL FRAMING                                      | ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)  |
| <input type="checkbox"/>            | IT-3   | CONCRETE CONSTRUCTION  | ICC REINFORCED CONCRETE SPECIAL INSPECTOR CERTIFICATE AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE, GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING   |
| <input type="checkbox"/>            | IT-4   | MASONRY CONSTRUCTION   | ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)   |
| <input type="checkbox"/>            | IT-5   | WOOD CONSTRUCTION  | ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)  |
| <input type="checkbox"/>            | IT-6   | SOILS  | NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ICC SOILS SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE |
| <input type="checkbox"/>            | IT-7   | DRIVEN DEEP FOUNDATIONS  | NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE   |
| <input type="checkbox"/>            | IT-8   | CAST-IN-PLACE DEEP FOUNDATIONS                                 | SEE IT-7   |
| <input type="checkbox"/>            | IT-9A  | HELICAL PILE FOUNDATIONS                                       | SEE IT-7   |
| <input type="checkbox"/>            | IT-9B  | RAMMED AGGREGATE PIERS AND STONE COLUMNS                       | SEE IT-7   |
| <input type="checkbox"/>            | IT-10  | FABRICATED ITEMS   | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-11  | WIND RESISTANCE  | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-12  | SEISMIC RESISTANCE   | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-13A | SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-13B | SEISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL                | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-13C | SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED JOINTS   | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-13D | SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS (H-PILES)    | AS NOTED HEREIN FOR EACH COMPONENT TYPE  |
| <input type="checkbox"/>            | IT-14  | SPRAYED FIRE-RESISTANT MATERIALS                               | ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)  |
| <input type="checkbox"/>            | IT-15  | MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS                 | SEE IT-14  |
| <input type="checkbox"/>            | IT-16  | EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)                  | AWCI EIFS INSPECTOR CERTIFICATE  |
| <input type="checkbox"/>            | IT-17  | FIRE-RESISTANT PENETRATIONS AND JOINTS                         | ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)   |
| <input type="checkbox"/>            | IT-18  | SMOKE CONTROL  | REGISTERED PROFESSIONAL ENGINEER (MECHANICAL OR FIRE PROTECTION) AND CERTIFICATION AS AIR BALANCER, OR AABC TECHNICIAN CERTIFICATION (PLUS ONE YEAR OF RELATED EXPERIENCE)   |

| IT-1: SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED  |   | FREQ | REFERENCE      |
|--|---|------|----------------|
| <input type="checkbox"/>   | 1. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY THE IBC.   | P    | IBC 1705.1.1.1 |
| <input checked="" type="checkbox"/>  | 2. UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN THE IBC.   | P    | IBC 1705.1.1.2 |
| <input type="checkbox"/>   | 3. MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE IBC OR IN STANDARDS REFERENCED BY THE IBC. | P    | IBC 1705.1.1.3 |
| <input type="checkbox"/>   | 4. PILES, PIERS, AND SPECIAL FOUNDATIONS  | P    | IBC 1705.1.2.1 |
| <input type="checkbox"/>   | 5. SPRAYED FIRE-RESISTANT MATERIALS   | P    | IBC 1705.1.2.2 |
| <input type="checkbox"/>   | 6. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS   | P    | IBC 1705.1.2.3 |
| <input checked="" type="checkbox"/>  | 7. SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS  | P    | IBC 1705.1.2.4 |
| <input checked="" type="checkbox"/>  | 8. RETAINING WALLS (>5' IN HEIGHT OF UNBALANCED BACKFILL)   | P    | IBC 1705.1.2.5 |
|  | A. VERIFY FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS.   | P    | IBC 1807.2.5.1 |
|  | B. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.  | P    | IBC 1807.2.5.2 |
|  | C. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN.   | P    | IBC 1807.2.5.3 |
|  | D. EXAMINE BACKFILL MATERIALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.   | P    | IBC 1807.2.5.4 |
|  | E. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN.                               | P    | IBC 1807.2.5.4 |
| FOR SOILS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.6 AND THE APPLICABLE SCHEDULES HEREIN. FOR CONCRETE WALLS AND FOOTINGS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.3 AND THE APPLICABLE SCHEDULES HEREIN. FOR MASONRY WALLS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.4 AND THE APPLICABLE SCHEDULES HEREIN. |   |      |                |

- Final Drawing -  
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2 7-MAY-23 REVISED PER REVIEW COMMENTS  
 1 10-FEB-23 SHIFTED BUILDING LOCATION PER OWNER REQUEST  
 1 PERMIT REVIEW SUBMITTAL  
 # DATE DESCRIPTION

**REVISIONS:**  
  
**PUBLIX AT WALLBROOK**  
 S Main St. / US 401 and Virginia Water Drive  
 Rolesville, Wake County, North Carolina

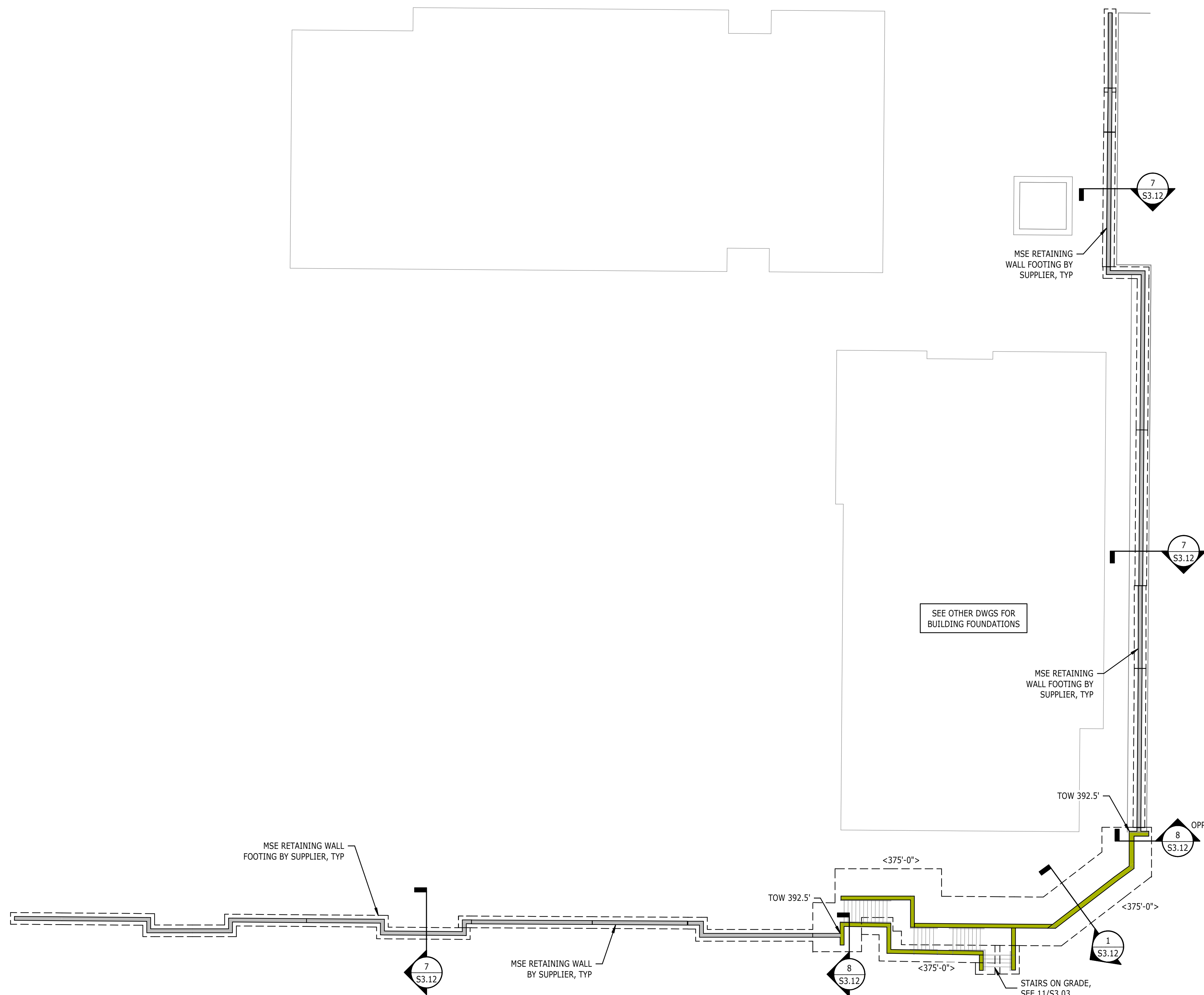
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 Greenville, NC 27858  
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 5/10/2023

|   |              |
|---|--------------|
| Project Manager:                        | PAA          |
| Drawn By:                               | TM           |
| Checked By:                             | LAF          |
| Project Number:                         | L22007       |
|   | D-1219-CD    |
| <b>STATEMENT OF SPECIAL INSPECTIONS</b> |              |
| <b>S0.01</b>                            |              |
| Date:                                   | May 24, 2023 |

223 S. WEST STREET  
 SUITE 1100  
 RALEIGH, NC 27603  
 T 919.380.875  
 FIRM LICENSE #C-105  
 L22007.00  
 5/24/2023

NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 TRINA A. AGNELLO  
 041315



**1 FOUNDATION PLAN**  
1/16" = 1'-0"

FOUNDATION PLAN NOTES:

- SEE S0.00 FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOL LEGEND.
- TOP OF FOOTING ELEVATION 2'-0" BELOW GRADE. CONTRACTOR TO COORDINATE WITH FINAL GRADING.
- SLOPE EXTERIOR SLABS, SIDEWALKS, AND PAVING AS INDICATED ON THE CIVIL AND/OR LA DRAWINGS.
- WALLS WITH HEIGHT 10'-0" AND GREATER SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT 100% DESIGN STRENGTH.
- SEE CIVIL AND/OR LA DRAWINGS FOR WALL LOCATIONS, WALL LENGTHS AND ALL DIMENSIONS NOT SHOWN.
- COORDINATE FOOTING STEPS WITH GRADING PLAN.



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|                  |           |
|------------------|-----------|
| Project Manager: | PAA       |
| Drawn By:        | TM        |
| Checked By:      | LAF       |
| Project Number:  | L22007    |
|                  | D-1219-CD |

**FOUNDATION PLAN**

**S1.00**  
Date: May 24, 2023

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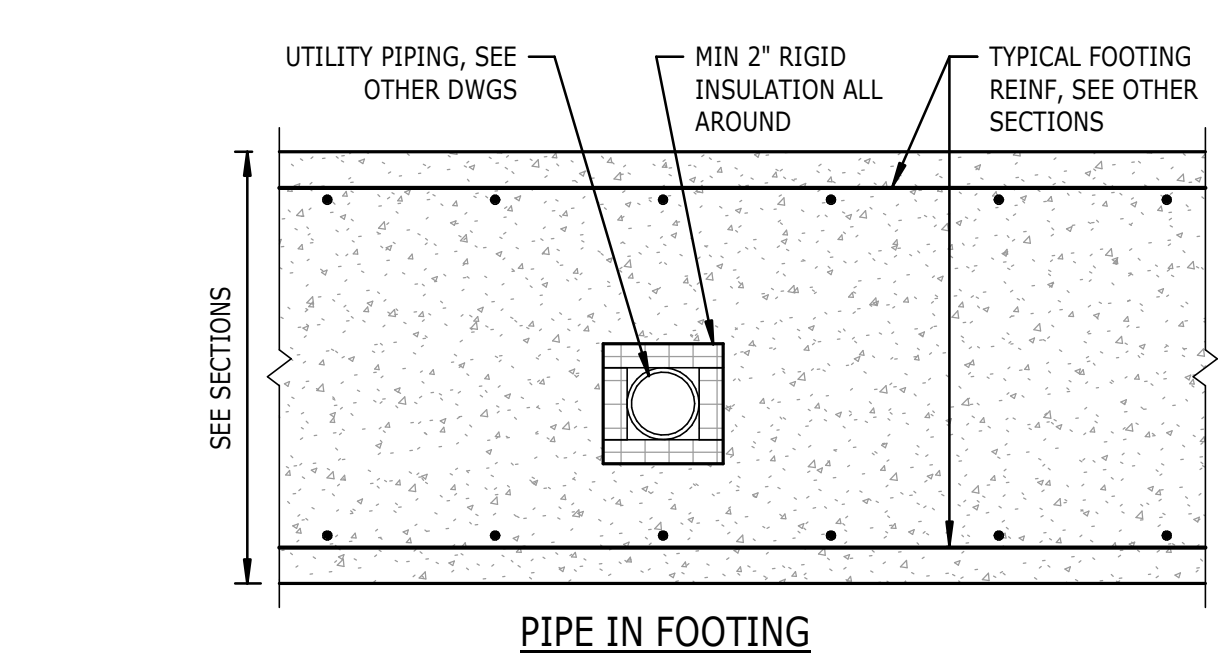
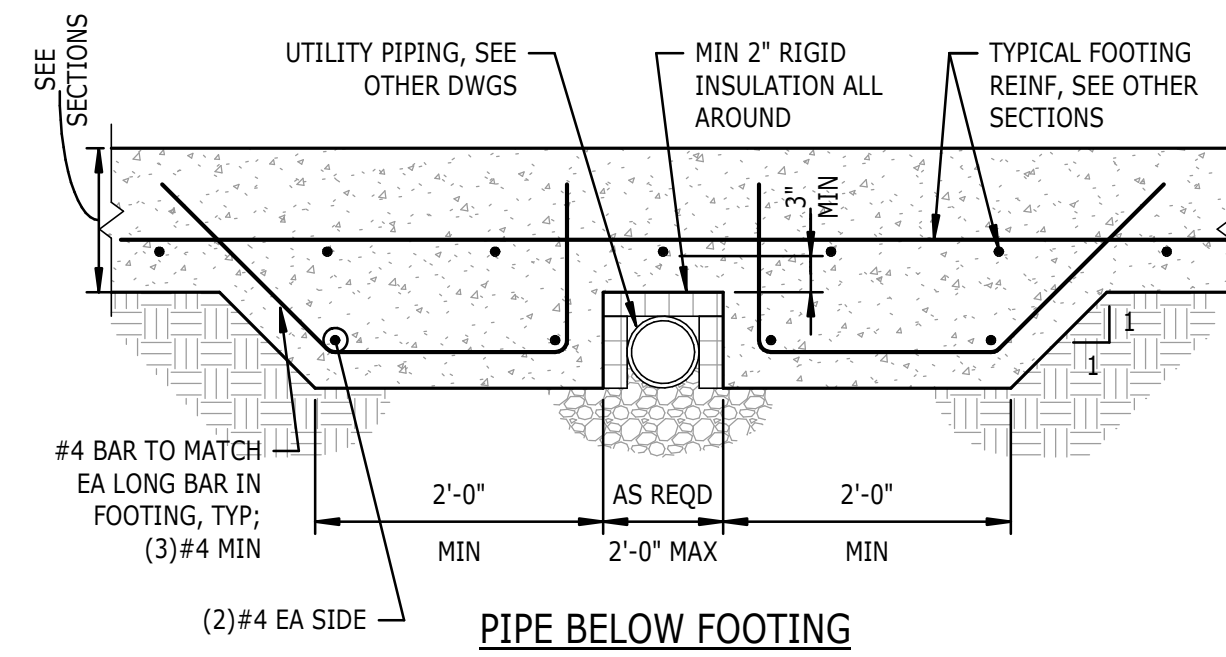
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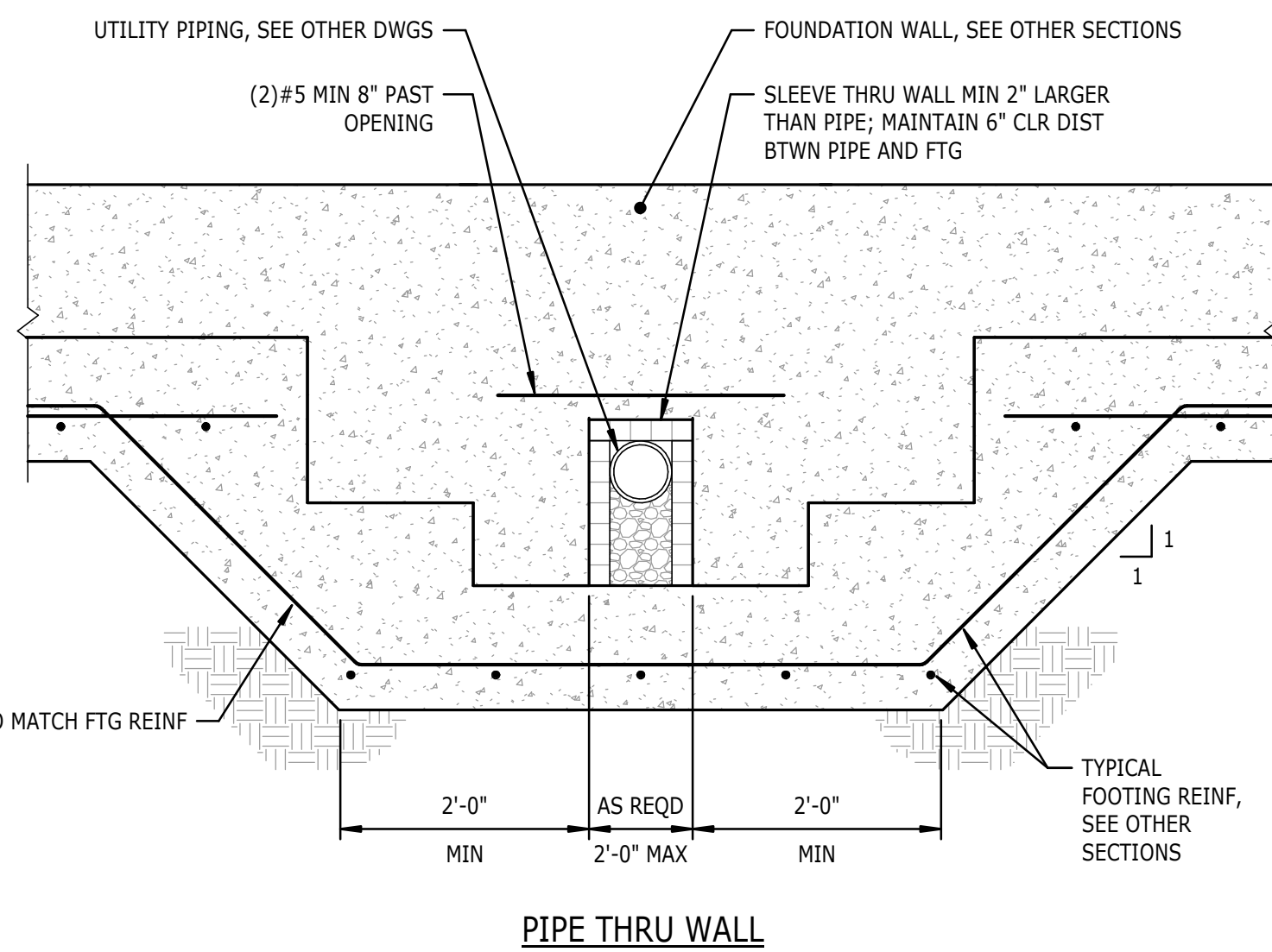
REVISIONS:

| # | DATE      | DESCRIPTION                                 |
|---|-----------|---|
| 1 | 10-FEB-23 | SHIFTED BUILDING LOCATION PER OWNER REQUEST |
| 2 | 7-MAY-23  | REVISED PER REVIEW COMMENTS                 |

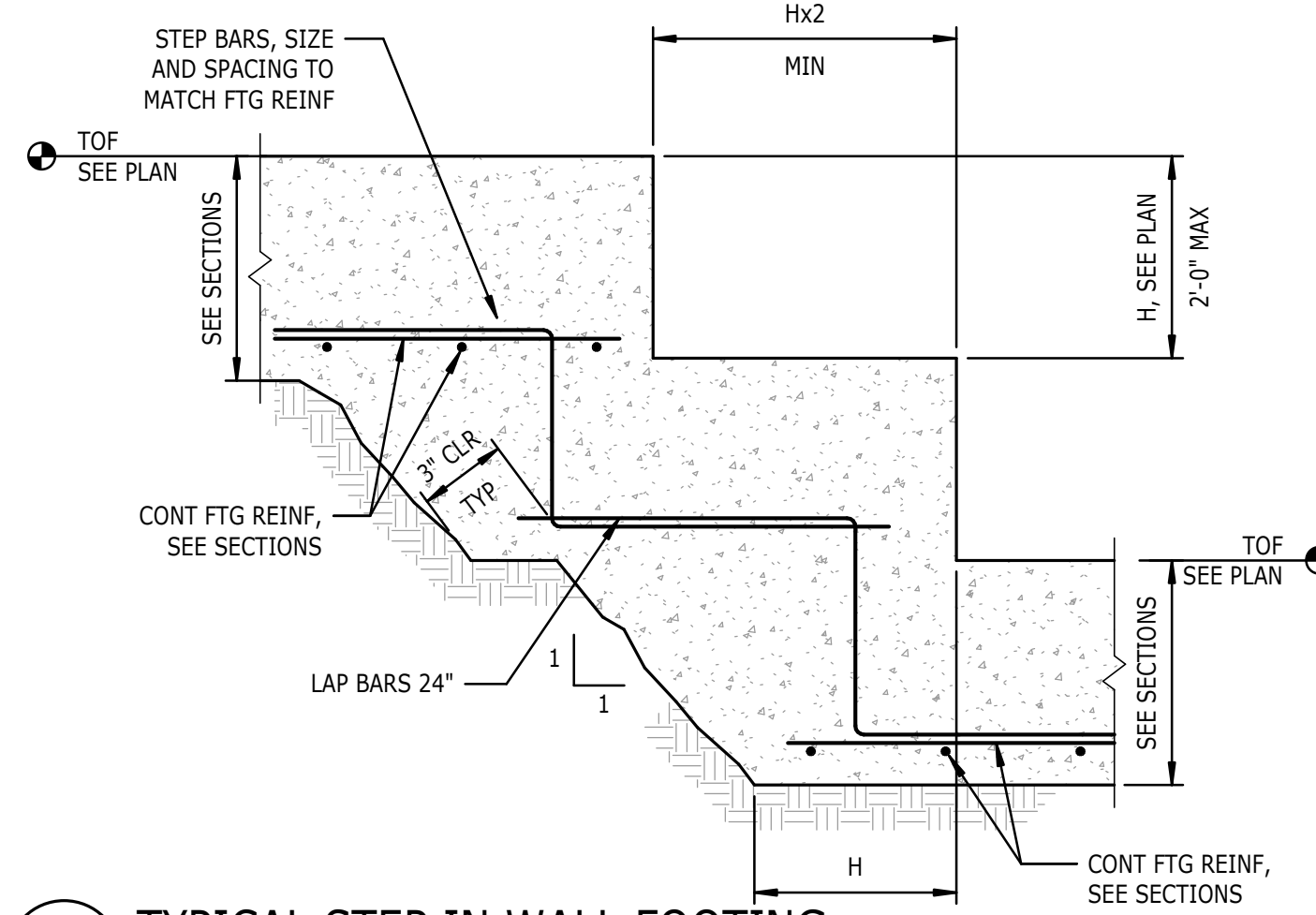
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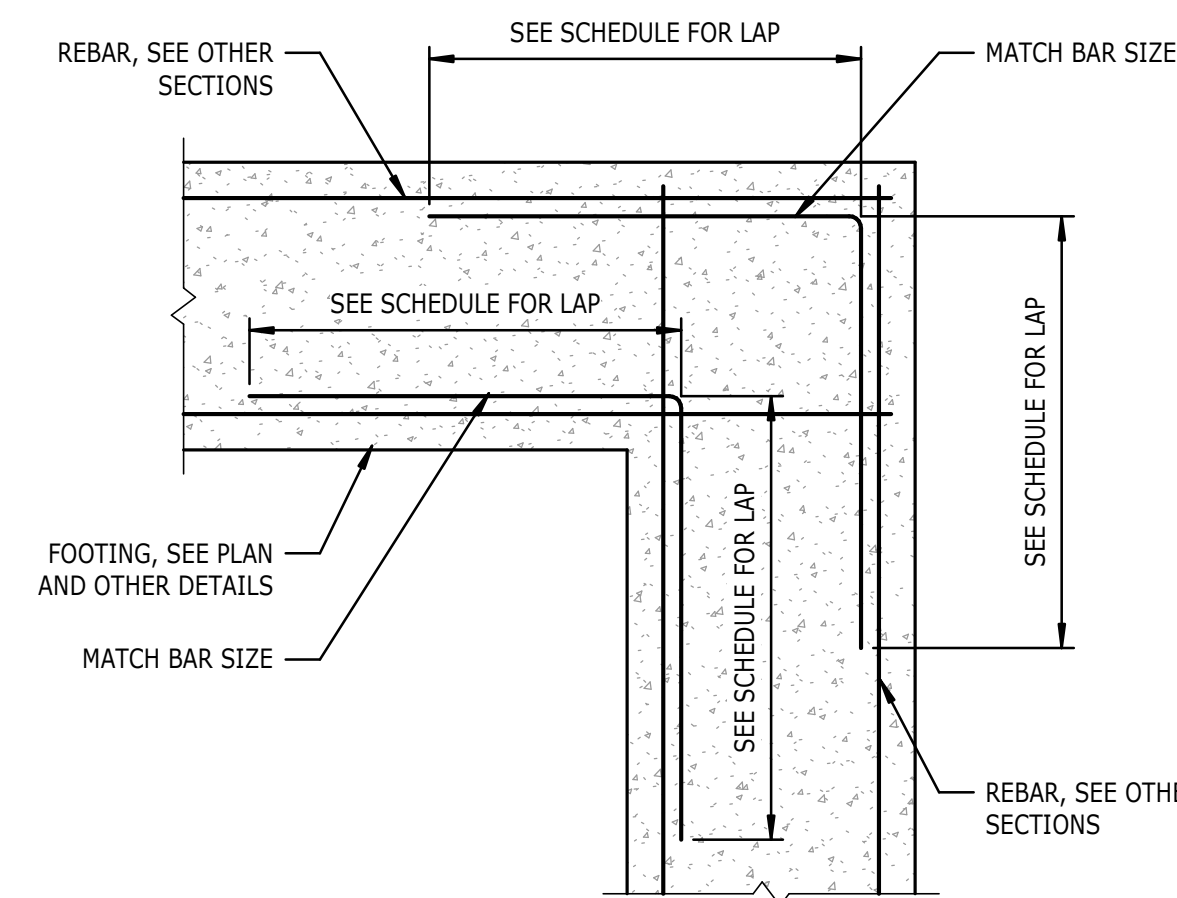
9 TYPICAL UTILITY BELOW FOOTING  
S3.03 3/4" = 1'-0"



5 TYPICAL FOOTING CORNER  
S3.03 3/4" = 1'-0"



6 TYPICAL STEP IN WALL FOOTING  
S3.03 3/4" = 1'-0"

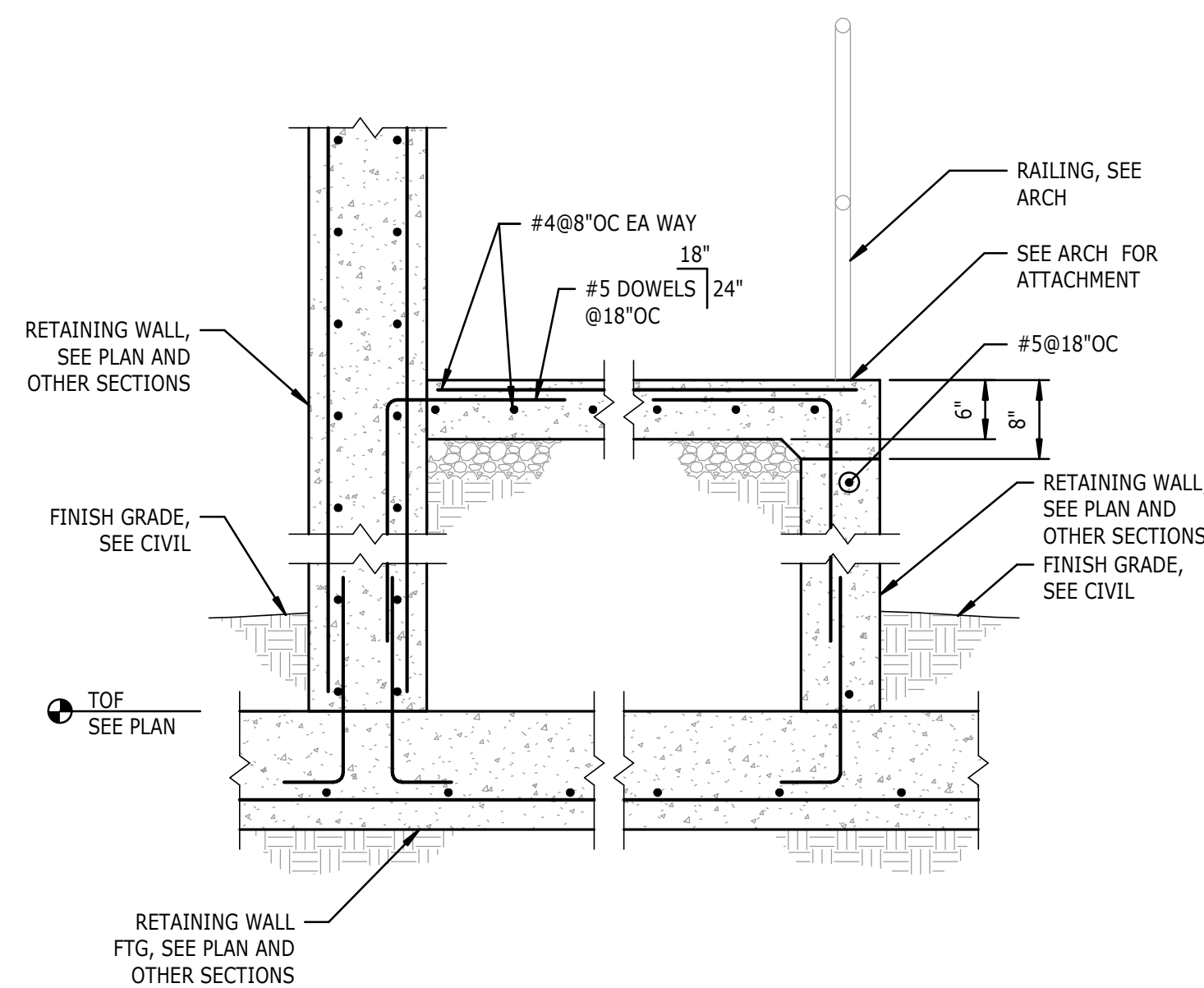


5 TYPICAL FOOTING CORNER  
S3.03 3/4" = 1'-0"

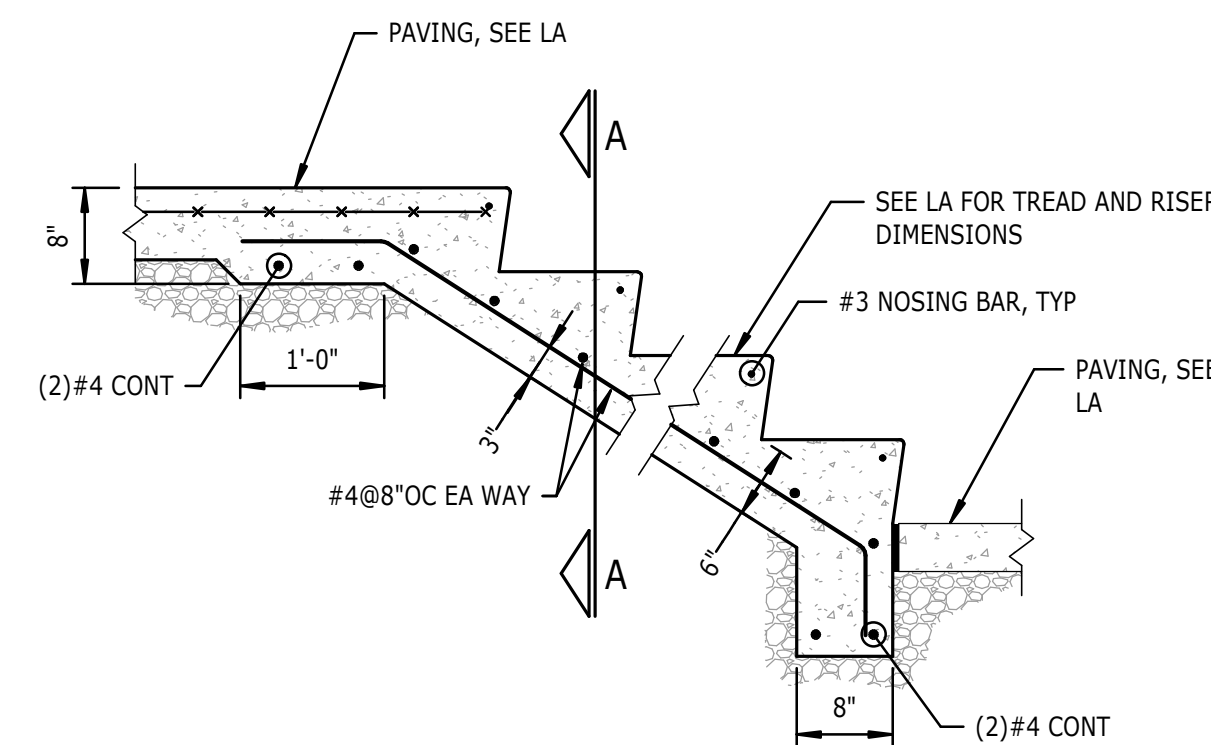
| CONCRETE REINFORCING SPLICES |                            |                            |                            |
|------------------------------|----------------------------|----------------------------|----------------------------|
| BAR SIZE                     | f <sub>c</sub> = 3,000 PSI | f <sub>c</sub> = 4,000 PSI | f <sub>c</sub> = 5,000 PSI |
| #3                           | 1'-10"                     | 1'-7"                      | 1'-5"                      |
| #4                           | 2'-4"                      | 2'-1"                      | 1'-10"                     |
| #5                           | 3'-0"                      | 2'-7"                      | 2'-4"                      |
| #6                           | 3'-7"                      | 3'-1"                      | 2'-9"                      |
| #7                           | 5'-2"                      | 4'-6"                      | 4'-1"                      |
| #8                           | 5'-11"                     | 5'-2"                      | 4'-8"                      |
| #9                           | 6'-6"                      | 5'-10"                     | 5'-3"                      |
| #10                          | 7'-6"                      | 6'-6"                      | 5'-10"                     |
| #11                          | 8'-4"                      | 7'-3"                      | 6'-6"                      |

NOTES:  
 1. FOR CLASS B LAP SPLICE, SPLICE LENGTH = 1.3 x DEVELOPMENT LENGTH.  
 2. APPLIES TO BOTTOM BARS ONLY (LESS THAN 12" OF FRESH CONCRETE BELOW BAR).  
 3. APPLIES WHERE THE CLEAR COVER IS GREATER THAN THE BAR DIAMETER.  
 4. WHEN MORE THAN 12" OF FRESH CONCRETE BELOW SPLICE, THEN INCREASE SPLICE TO 1.3 x SPLICE LENGTH.

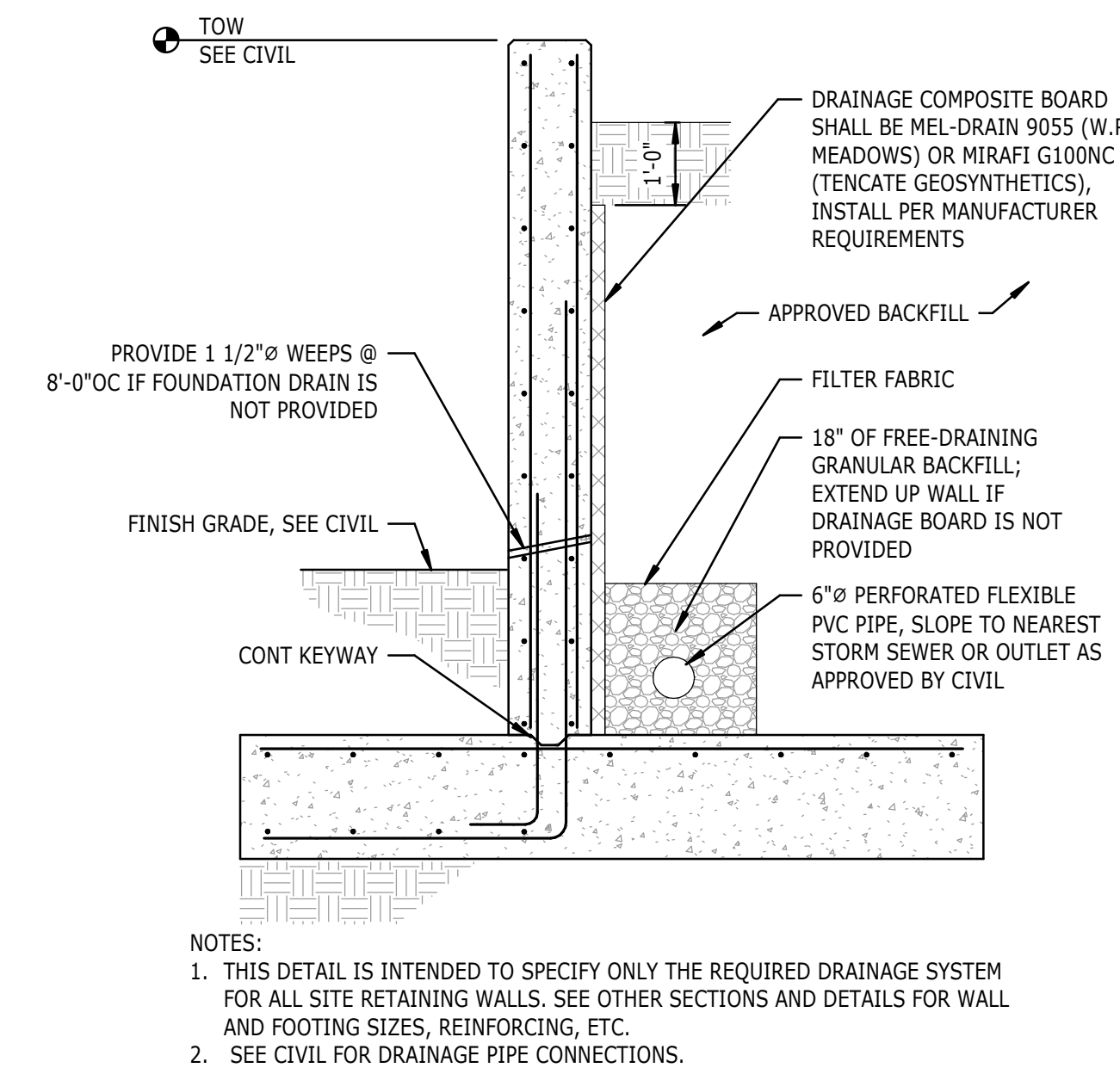
1 CONCRETE REINFORCING SPLICE SCHEDULE  
S3.03 3/4" = 1'-0"



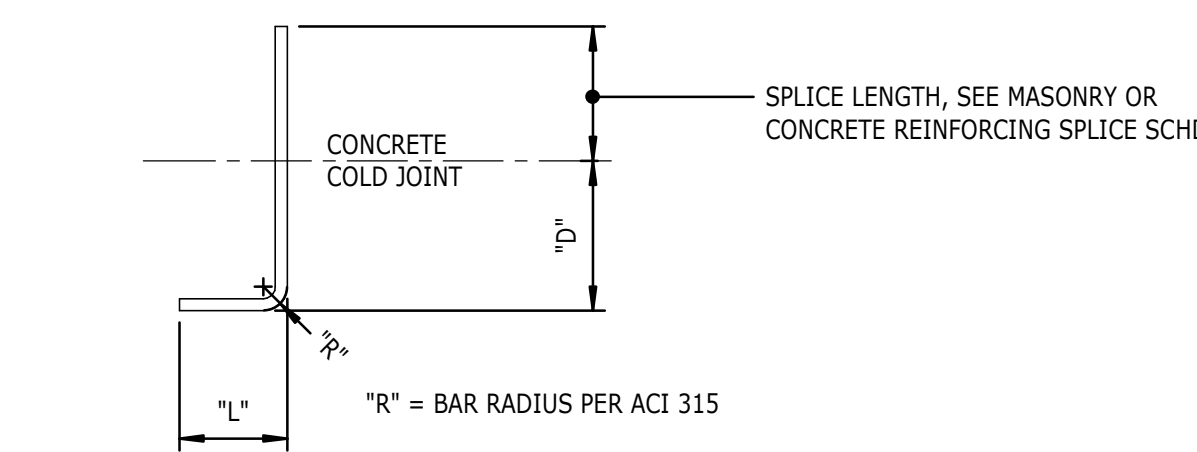
11 TYPICAL STEPS WITH CONCRETE WALLS  
S3.03 3/4" = 1'-0"



7 TYP SITE RETAINING WALL DRAINAGE SYSTEM  
S3.03 1/2" = 1'-0"



| CONCRETE REINFORCING DOWEL EMBEDMENT |              |                            |                            |                            |
|--------------------------------------|--------------|----------------------------|----------------------------|----------------------------|
| BAR SIZE                             | LEG DIM, "L" | EMBEDMENT, "D"             |                            |                            |
|                                      |              | f <sub>c</sub> = 3,000 PSI | f <sub>c</sub> = 4,000 PSI | f <sub>c</sub> = 5,000 PSI |
| #3                                   | 6"           | 6"                         | 6"                         | 6"                         |
| #4                                   | 8"           | 8"                         | 7"                         | 6"                         |
| #5                                   | 10"          | 10"                        | 9"                         | 8"                         |
| #6                                   | 12"          | 12"                        | 10"                        | 9"                         |
| #7                                   | 14"          | 14"                        | 12"                        | 11"                        |
| #8                                   | 16"          | 16"                        | 14"                        | 12"                        |
| #9                                   | 19"          | 18"                        | 15"                        | 14"                        |
| #10                                  | 22"          | 20"                        | 17"                        | 15"                        |
| #11                                  | 24"          | 22"                        | 19"                        | 17"                        |



NOTES:  
 1. FOR CONCRETE STRENGTHS NOT PROVIDED, USE THE EMBEDMENT LENGTH FOR THE LOWER CONCRETE STRENGTH AS SHOWN IN THE TABLE.  
 2. DOWEL LENGTHS BASED ON NORMAL WEIGHT CONCRETE. FOR LIGHT WEIGHT, INCREASE DOWEL LENGTH "D" BY 30%.  
 3. SIDE COVER ON BARS MUST BE GREATER THAN 2 1/2". END COVER ON 90° HOOKED BARS MUST BE GREATER THAN 2".  
 4. FOR EPOXY-COATED BARS, INCREASE THE DOWEL LENGTH "D" BY 20%.

3 DOWEL EMBEDMENT LENGTH SCHEDULE  
S3.03 3/4" = 1'-0"

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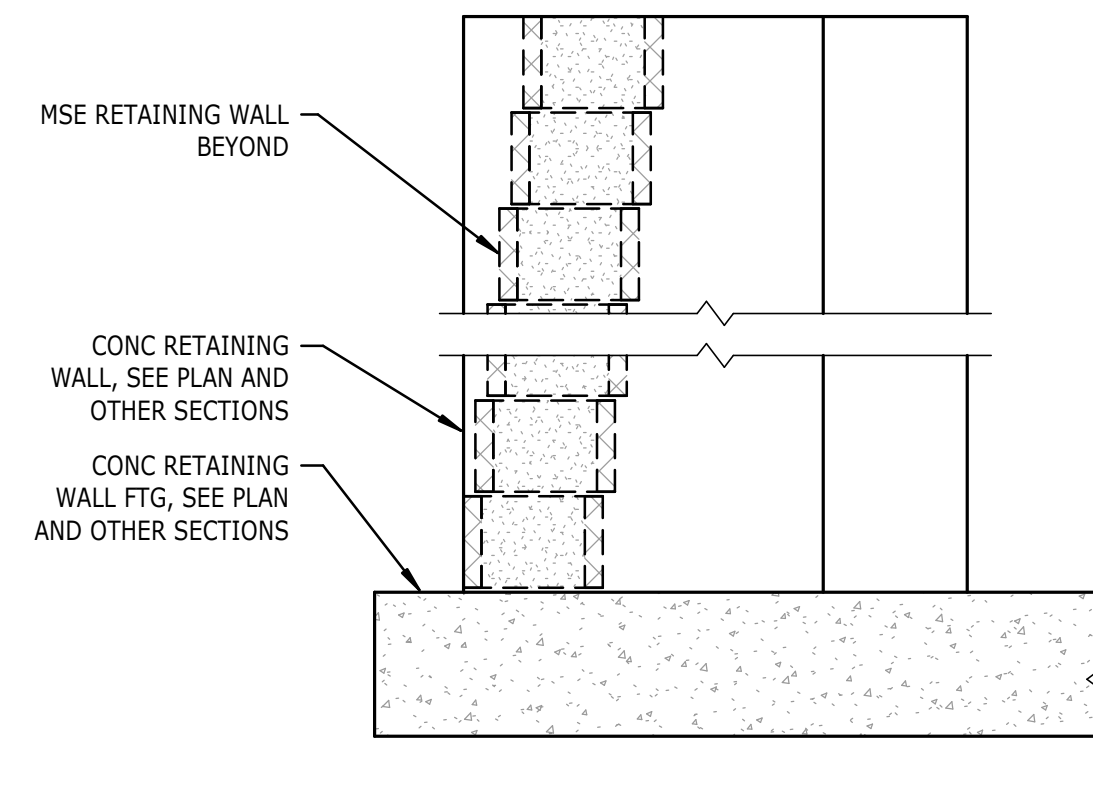
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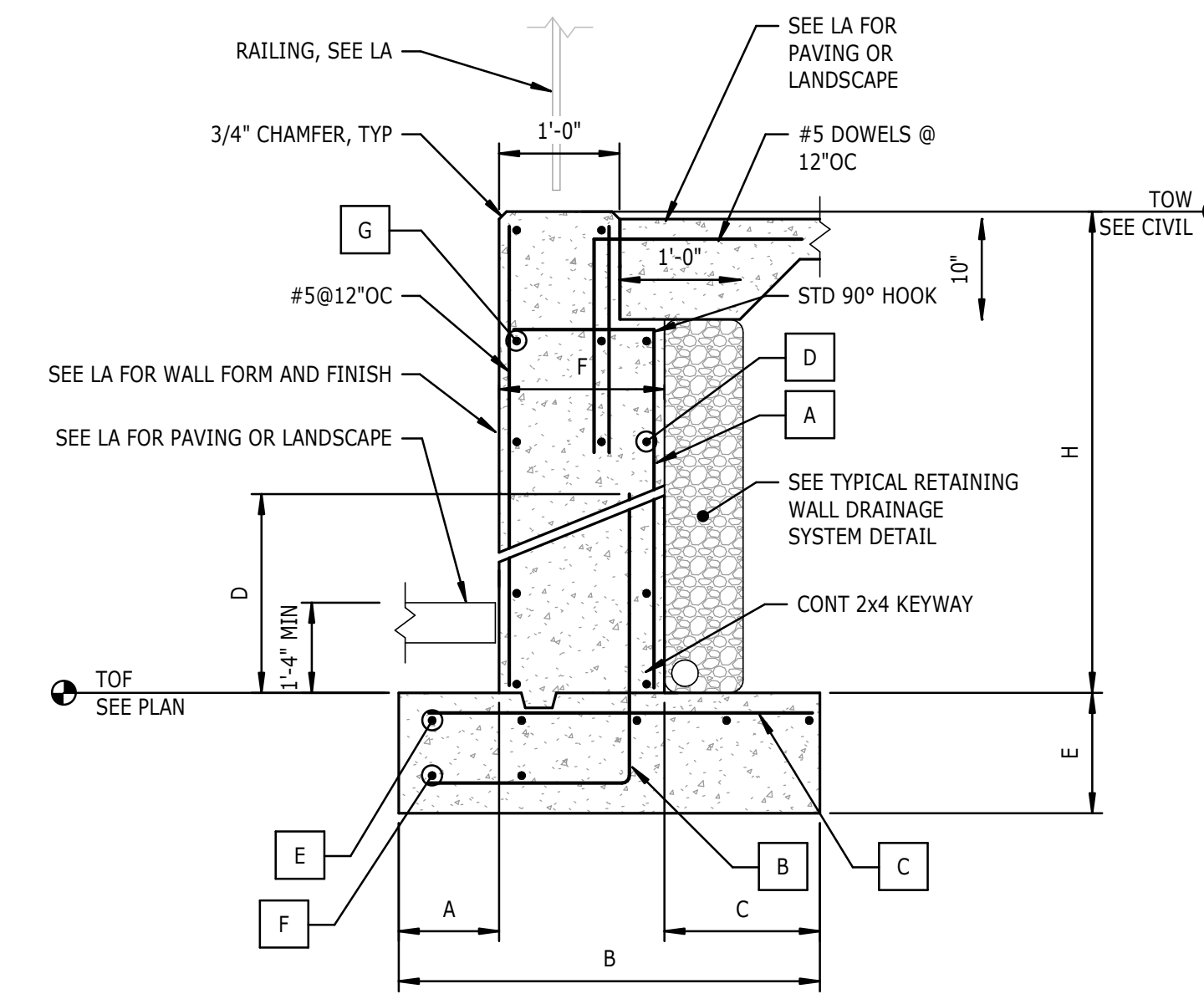
Project Manager: PAA  
 Drawn By: TM  
 Checked By: LAF  
 Project Number: L22007  
 D-1219-CD  
 FOUNDATION  
 DETAILS  
 S3.03  
 Date: May 24, 2023

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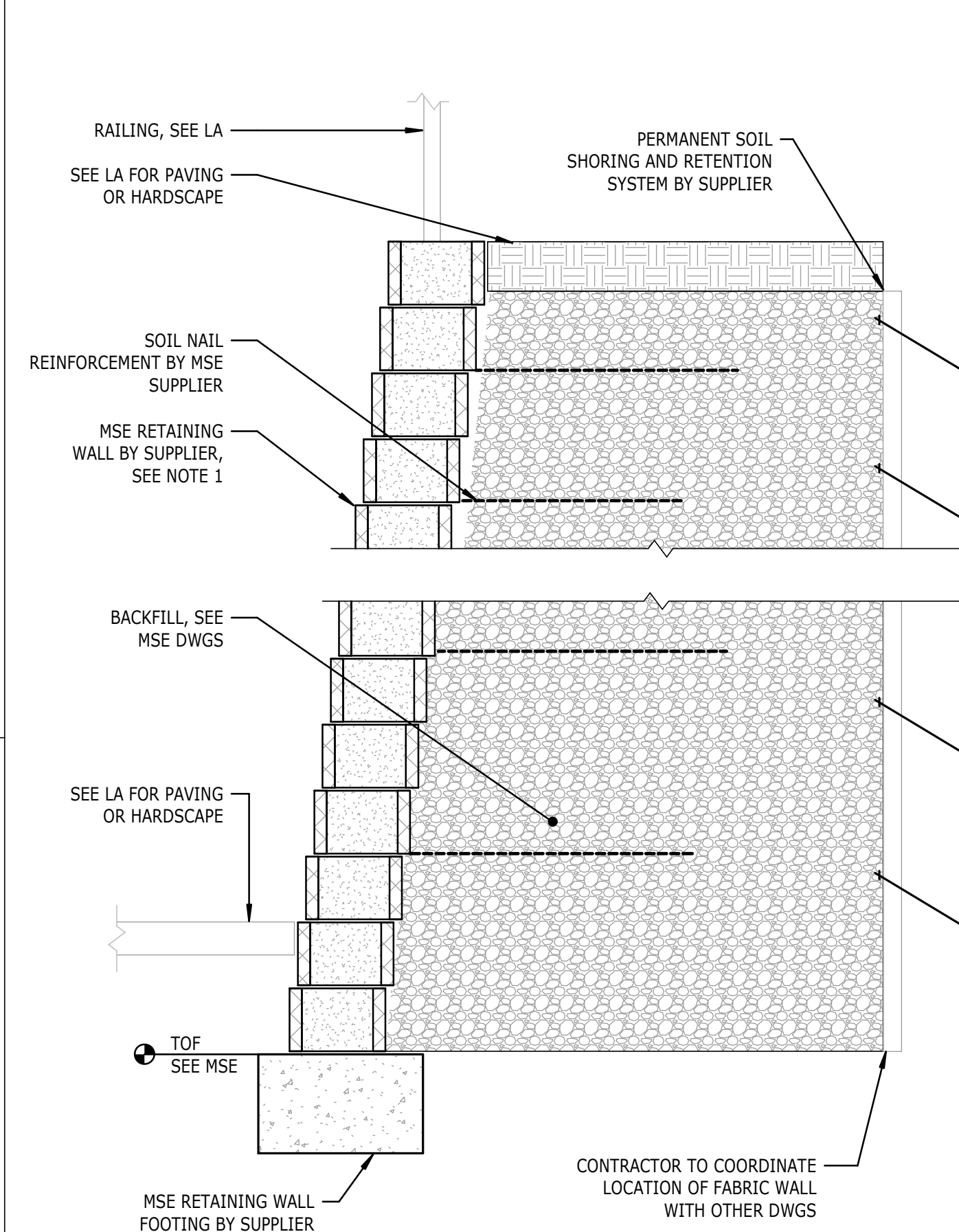
8 MSE TO CONC WALL PLAN  
S3.12 3/4" = 1'-0"



| MAX HEIGHT "H" | DIMENSIONS |        |       |       |       |       | REINFORCEMENT |          |          |          |        |       |          |
|----------------|------------|--------|-------|-------|-------|-------|---------------|----------|----------|----------|--------|-------|----------|
|                | A          | B      | C     | D     | E     | F     | A             | B        | C        | D        | E      | F     | G        |
| 12'-0"         | 1'-6"      | 6'-6"  | 4'-0" | 4'-6" | 1'-6" | 1'-0" | #5@12"OC      | #7@12"OC | #7@12"OC | #4@12"OC | (7)#5  | (3)#5 | #5@12"OC |
| 14'-0"         | 2'-0"      | 8'-3"  | 5'-0" | 4'-6" | 1'-6" | 1'-3" | #5@12"OC      | #7@12"OC | #7@12"OC | #4@12"OC | (9)#5  | (4)#5 | #5@12"OC |
| 16'-0"         | 3'-0"      | 10'-3" | 6'-0" | 4'-6" | 1'-8" | 1'-3" | #7@12"OC      | #7@12"OC | #7@12"OC | #5@12"OC | (11)#5 | (6)#5 | #5@12"OC |
| 18'-0"         | 4'-6"      | 12'-9" | 7'-0" | 4'-6" | 1'-8" | 1'-3" | #7@12"OC      | #7@12"OC | #7@12"OC | #5@12"OC | (13)#5 | (7)#5 | #6@12"OC |

- NOTES:
- SEE DETAIL 9/S3.12 FOR DETAIL OF CONCRETE WALL JOINTS.
  - SEE LANDSCAPE WALL ELEVATIONS FOR PATTERNS IN CONCRETE SITE WALLS.
  - WALLS WITH HEIGHT 10'-0" AND GREATER SHALL BE TEMPORARILY BRACED DURING BACKFILLING AND UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND ARE AT DESIGN STRENGTH.

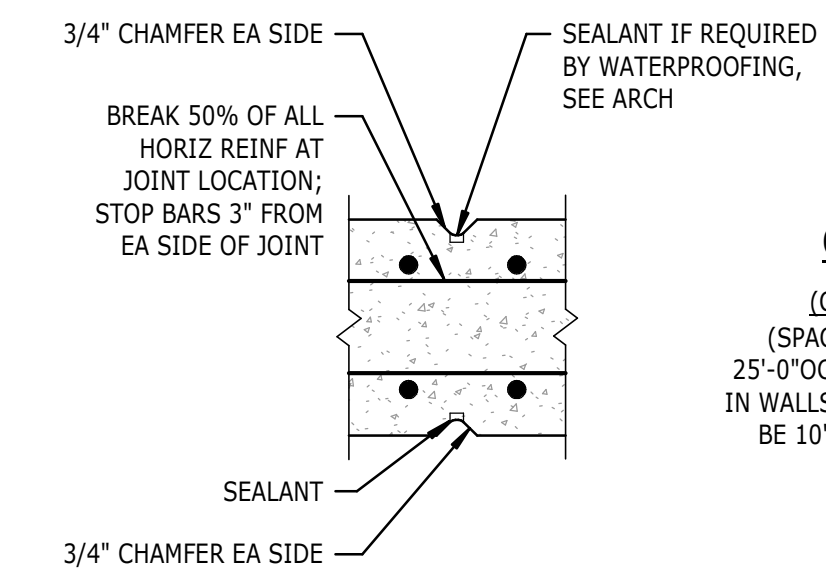
1 CONCRETE RETAINING WALL SCHEDULE  
S3.12 3/4" = 1'-0"



7 MSE RETAINING WALL  
S3.12 3/4" = 1'-0"

NOTES:

- MSE SUPPLIER TO DESIGN AND SPECIFY IF SOIL NAIL REINFORCEMENT IS REQUIRED TO SUPPORT RETAINING WALLS. CONTRACTOR TO COORDINATE INSTALLATION OF MSE WALL AND ALL COMPONENTS WITH MSE SUPPLIER.



**CONTROL JOINT (CJ)**  
(CONSTRUCTION JOINT SIMILAR)  
(SPACE CONTROL JOINTS @ 20'-0"OC TO 25'-0"OC ON SOLID WALLS AND 20'-0"OC, MAX IN WALLS WITH OPENINGS. JOINTS SHALL ALSO BE 10'-0"OC TO 15'-0"OC FROM CORNERS)

- NOTES:
- FOAM JOINT FILLER TO BE CLOSED CELL NEOPRENE FOAM.
  - SEALANT TO BE "TREMCO DYMERIC" OR EQUAL.
  - SUBMIT SAMPLES OF JOINT FILLER & SEALANT FOR APPROVAL.
  - CHAMFER ALL CORNERS AND EDGES OF EXPOSED FACE OF WALL.
  - DO NOT INSTALL CONTROL JOINTS IN CONCRETE SHEAR WALLS, STAIR OR ELEVATOR TOWERS OR WITHIN 10'-0" OF A CORNER.

3 TYPICAL JOINTS IN CONCRETE WALLS  
S3.12 3/4" = 1'-0"



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FOUNDATION DETAILS

**S3.12**

Date: May 24, 2023