

CONSTRUCTION DOCUMENT FOR:

ZEBULON PUBLIC SAFETY STATION

CONSTRUCTION DRAWINGS

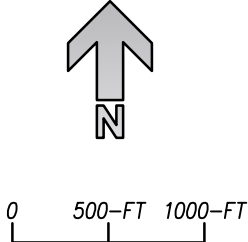
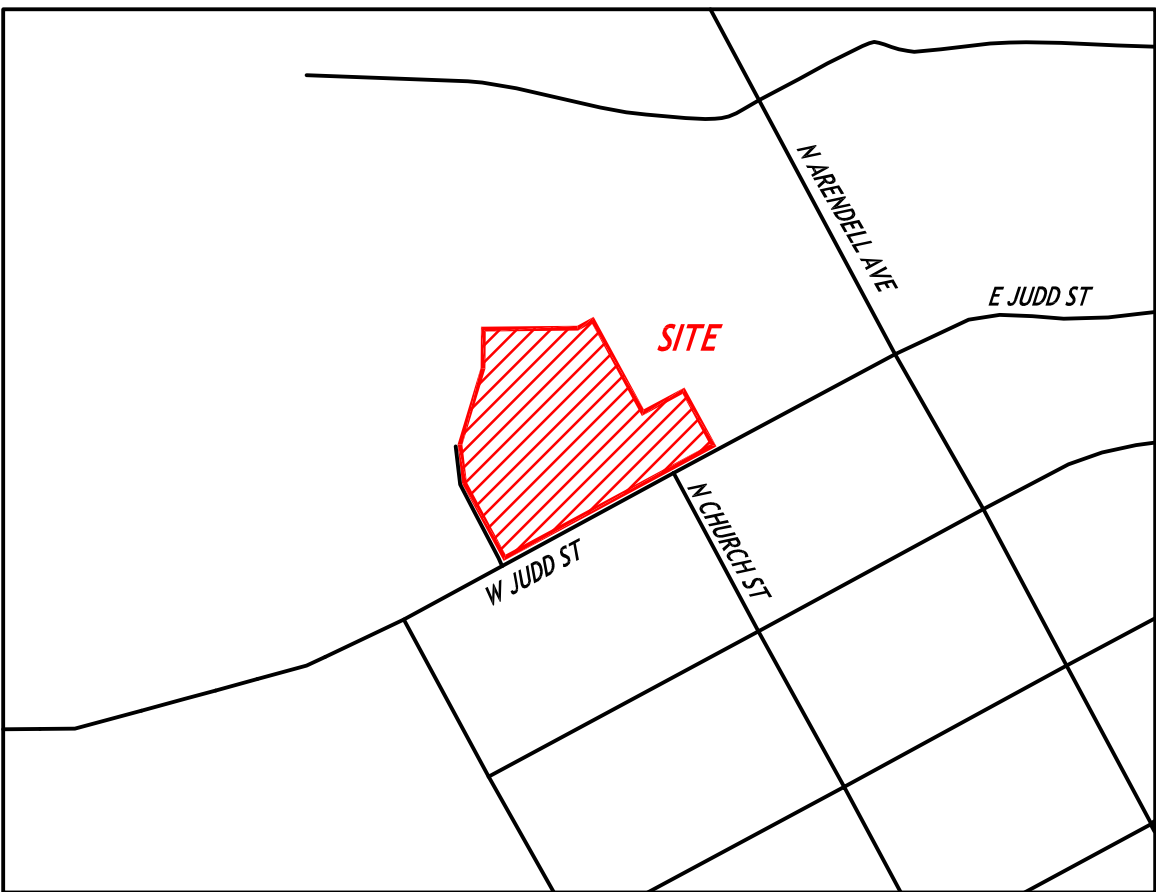
DEVELOPMENT PLAN #:

1004 N ARENDELL AVENUE

ZEBULON, NC 27597

WAKE COUNTY

VICINITY MAP



SITE DATA

| | |
|---|--|
| OWNER: OWNER CONTACT: | TOWN OF ZEBULON CHRISTOPHER C. PERRY, CFO FIRE CHIEF 113 E. VANCE STREET ZEBULON, NC 27597 PHONE: 919-823-1840 EMAIL: CPERRY@TOWNOFZEBULON.ORG |
| CIVIL/LANDSCAPE ARCHITECT: DESIGNER CONTACT: | CLH DESIGN, P.A. YHOSHUA AAL-ANUBIA, PLA – SENIOR PROJECT MANAGER 919-319-6716 400 REGENCY FOREST DRIVE, STE. 120 CARY, NC 27518 YAALANUBIA@CLHDESIGNPA.COM |
| ARCHITECTURAL: DESIGNER CONTACT: | ADW ARCHITECTS MIKE A. ESPOSITO – SENIOR PRINCIPAL 704-379-1919 2815 COLISUEM CENTRE DRIVE, SUITE 500 CHARLOTTE, NC 28217 MESPOSITO@ADWARCHITECTS.COM |
| PROJECT ADDRESS: | 1004 N ARENDELL AVENUE ZEBULON, NC, 27597 |
| PLANNING JURISD: | TOWN OF ZEBULON |
| PIN: | 2705180148 |
| REID: | 0103437 |
| DEEDED ACREAGE: | 11.13 AC |
| ZONING: | O1 |
| FRONT SETBACK: | 20 |
| SIDE SETBACK: | 0 OR 5 |
| REAR SETBACK: | 25 |
| EXISTING LAND USE: | SUBURBAN COMMERCIAL (SC) |
| PROPOSED LAND USE: | SUBURBAN COMMERCIAL (SC) |
| DISTURBED AREA: | ±3.44 ACRES |
| IMPERVIOUS AREA: | ±1.95 ACRES |
| BUILDING AREA SF: | ±25,000 SF |
| PARKING REQUIREMENT: | REQUIRED |
| VEHICLE PARKING | 1 PER 600 SF – 42 SPACES |
| ACCESSIBLE PARKING | 3 SPACES (1 VAN) |
| BICYCLE PARKING | 1 PER 20 VEHICLE – 3 SPACES |
| FEMA 100-YEAR FLOODPLAIN: | NOT PRESENT |

SHEET INDEX

| | |
|----------------------|----------------------------|
| <u>CIVIL</u> | |
| C001 | COVER SHEET |
| C101 | STAKING PLAN |
| C201 | EXISTING CONDITIONS |
| C202 | DEMO PLAN |
| C301 | GRADING PLAN |
| C501 | UTILITY PLAN |
| C601 | LANDSCAPE PLAN |
| C801 | UTILITY DETAILS |
| C802 | UTILITY DETAILS |
| C803 | UTILITY DETAILS |
| C901 | STAKING DETAILS |
| C902 | STAKING DETAILS |
| C903 | LANDSCAPE DETAILS |
| <u>ARCHITECTURAL</u> | |
| A200 | EXTERIOR ELEVATIONS |
| A201 | EXTERIOR ELEVATIONS |
| A501 | DUMPSTER ENCLOSURE DETAILS |
| <u>ELECTRICAL</u> | |
| E100-SP | ELECTRICAL SITE PLAN |
| E101-SP | ELECTRICAL DETAILS |
| E102-SP | ELECTRICAL DETAILS |
| <u>STRUCTURAL</u> | |
| S301 | FOUNDATION DETAILS |

CERTIFICATION/STANDARD TOWN NOTES/QUANTITIES/CONDITIONAL APPROVALS/ETC

adwarchitects
environmentsforlife

architecture planning interiors

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LA: C-106, PE: C-1595



ZEBULON
PUBLIC SAFETY
STATION
1005 N ARENDELL AVENUE
ZEBULON, NC

CONSTRUCTION DRAWINGS

COVER SHEET

DATE 02-21-2025

CLH PROJECT NO 22-154

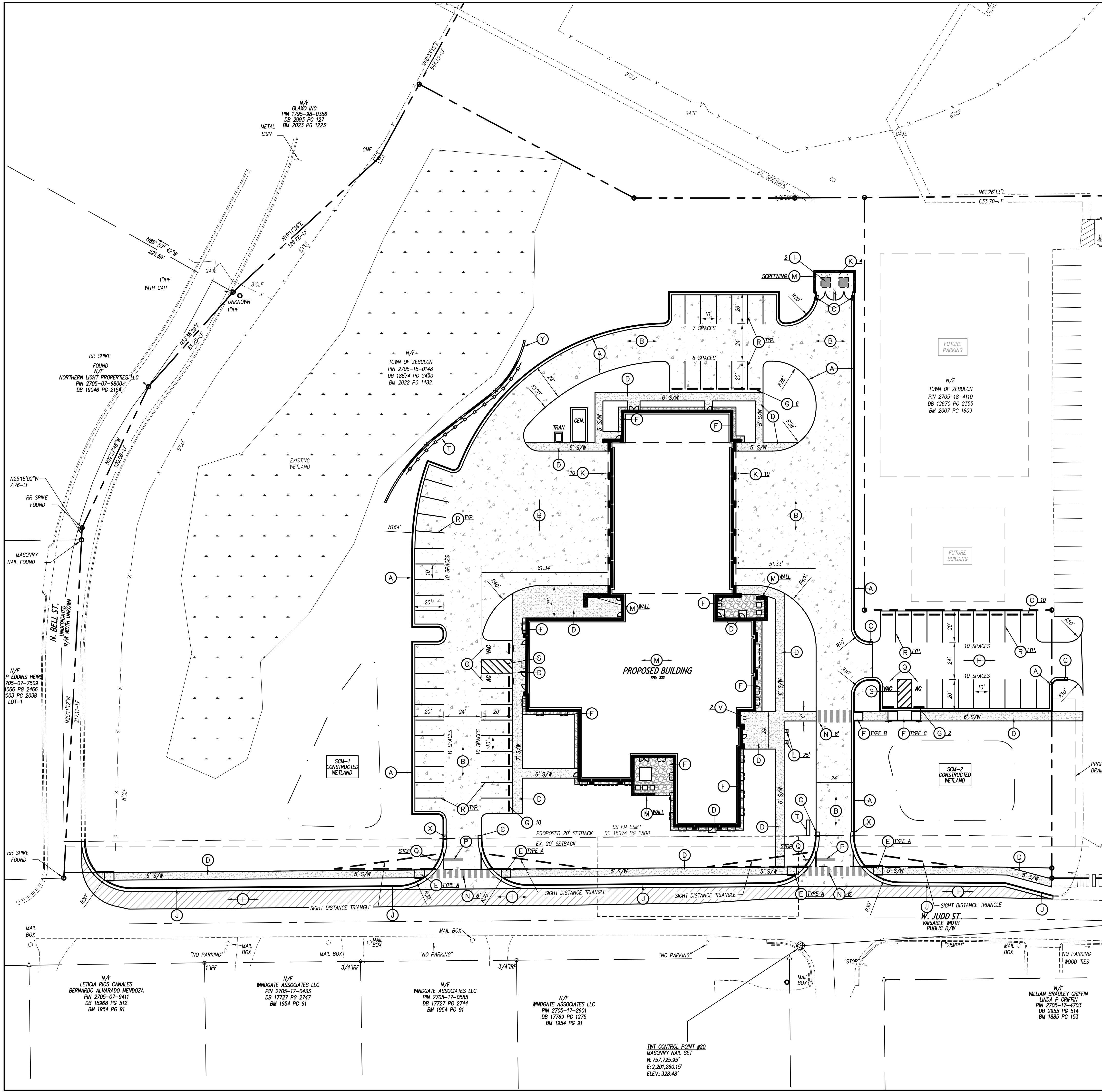
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PRELIMINARY PLANS
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SHEET NUMBER

C001



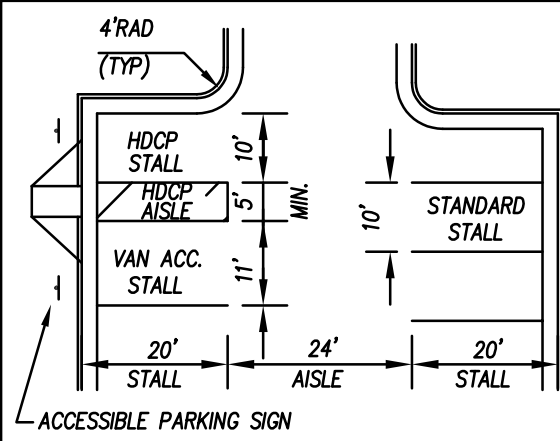
GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADI ARE 4-FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE A MINIMUM OF 10-FT WIDE X 20-FT DEEP.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) 24-IN CURB & GUTTER, SEE DETAIL SHEET C901.
- (B) HEAVY DUTY CONCRETE PAVEMENT, SEE DETAIL SHEET C901.
- (C) STANDARD CURB & GUTTER TERMINUS, SEE DETAIL SHEET C901.
- (D) CONCRETE SIDEWALK, SEE DETAIL SHEET C901.
- (E) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C902.
- (F) DECORATIVE STONE BAND, SEE DETAIL SHEET C903.
- (G) PRECAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C902.
- (H) LIGHT DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
- (I) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C901.
- (J) 30-IN CURB & GUTTER, SEE DETAIL SHEET C901.
- (K) STEEL BOLLARD, SEE DETAIL SHEET C901.
- (L) FLAGPOLE, SEE DETAIL SHEET C901.
- (M) SEE ARCHITECTURAL PLANS FOR CANOPY, SCREEN AND STRUCTURAL WALLS, BUILDING COLUMNS, BOLLARDS AND MECHANICAL SERVICE YARD, MONUMENT SIGN.
- (N) HI-VIS CROSS WALK, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (O) ACCESSIBLE PARKING & SIGNAGE, SEE DETAIL SHEET C902.
- (P) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (Q) TRAFFIC CONTROL SIGNAGE, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (R) PARKING SPACE STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (S) DIAGONAL STRIPING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (T) TRAFFIC GUARDRAIL, SEE DETAIL SHEET C902.
- (U) DUMPSTER ENCLOSURE, PROVIDED BY OWNER.
- (V) BIKE RACK, SEE SPECIFICATIONS. SEE DETAIL SHEET C902.
- (X) 24" TO 30" C&G TRANSITIONS. SEE DETAIL SHEET C901.
- (Y) RETAINING WALL WITH FENCE. SEE STRUCTURAL PLANS SHEET S301.

TYP. PARKING DIMENSIONS



- NOTES:
1. ALL DIMENSIONS ARE FROM FACE OF CURB.
 2. ALL STANDARD ACCESSIBLE PARKING STALLS SHALL BE 10' WIDE.
 3. ALL VAN ACCESSIBLE PARKING STALLS SHALL BE 11' WIDE.

TRAFFIC CONTROL NOTES

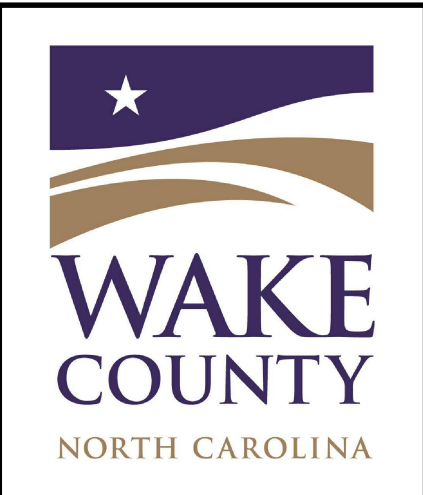
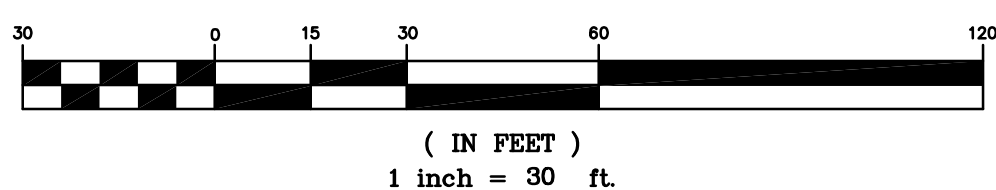
1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

| SIGN | MUTCD STD. | SIZE |
|-------------------------------|------------|---------|
| STOP | R1-1 | 30"x30" |
| NO PARKING ANY TIME FIRE LANE | - | 12"x18" |
2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

| MARKING | NCDOT STD. | SIZE | COLOR |
|--------------------------|---------------|-------|-------|
| PARKING SPACES | 4-IN | 4-IN | WHT. |
| CROSSWALK | 24-IN | 24-IN | WHT. |
| NO PARKING - FIRE LANE * | 1205.07(H-VS) | 4-IN | YEL. |
| SOLID | 1205.01 | 4-IN | WHT. |
| DIAGONAL | 1205.09 | 8-IN | YEL. |
| STOP BAR | 24-IN | 24-IN | WHT. |

* NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO TOWN OF ZEBULON STANDARD SPECIFICATION 03050.D FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.
4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYD-RESIN TYPE PAINT.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. CENTER ALL DIRECTIONAL ARROWS WITHIN TRAVEL LANE.
7. COORDINATE FIRE LANE MARKINGS WITH TOWN OF ZEBULON FIRE MARSHAL.
8. ALL SIGNS SHALL USE PRISMATIC SHEETING THAT MEETS MINIMUM REFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.

GRAPHIC SCALE



ZEBULON PUBLIC SAFETY STATION

1005 N ARENDELL AVENUE
ZEBULON, NC

CONSTRUCTION DRAWINGS

STAKING PLAN

DATE 02-21-2025

CLH PROJECT NO 22-154

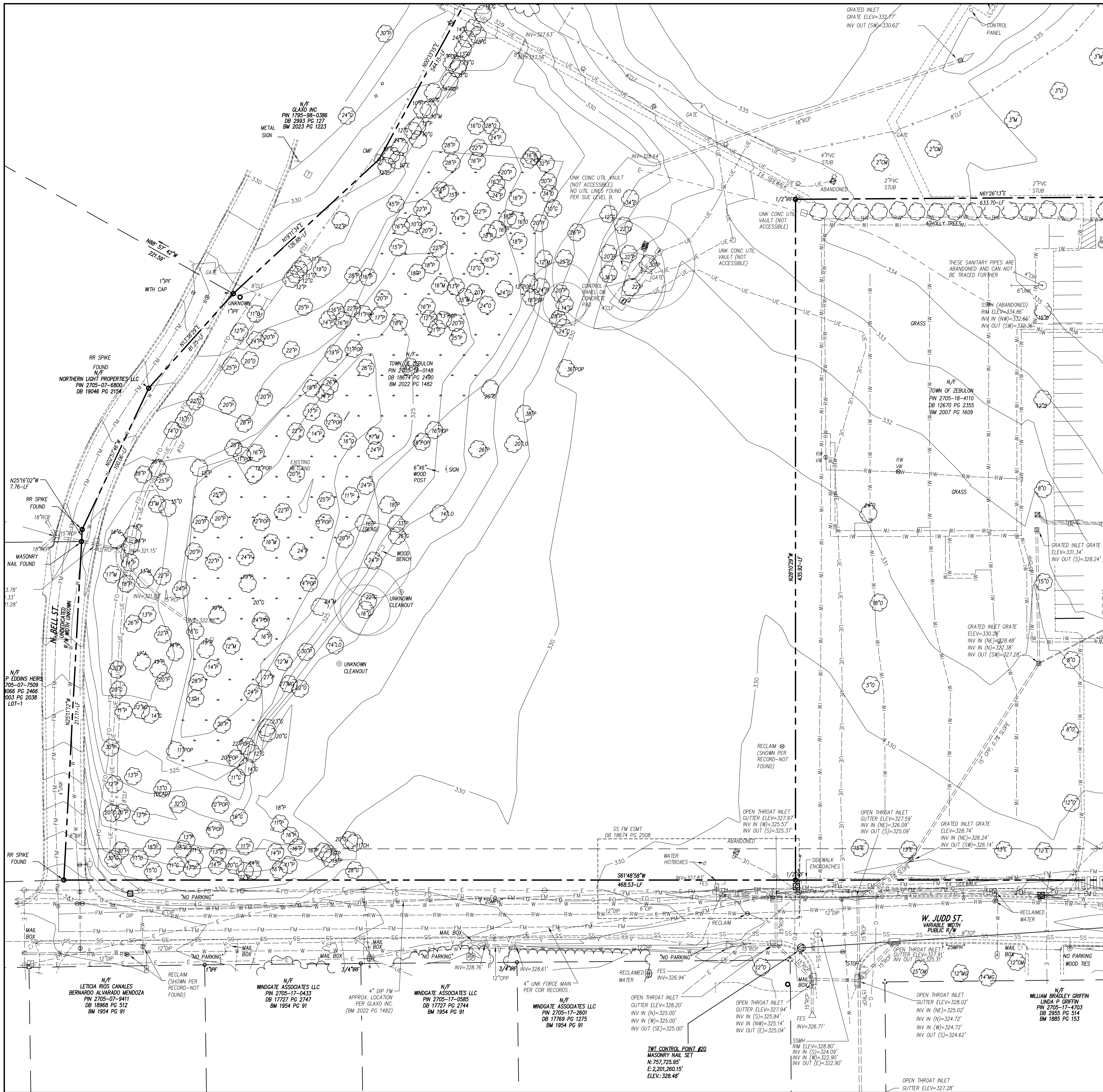
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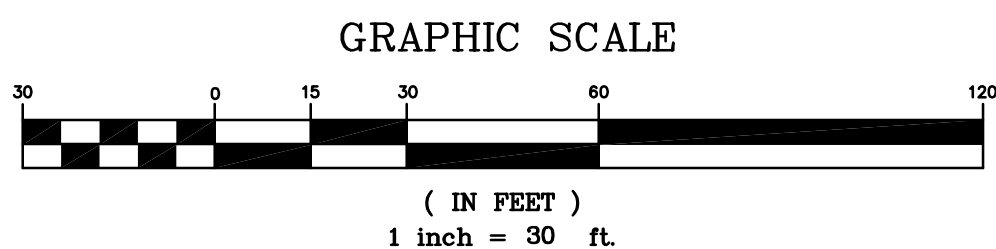
SHEET NUMBER

C101



LEGEND

- OVERHEAD ELECTRICAL ----- E -----
- ELECTRICAL UNDERGROUND ----- UE -----
- FIRE PROTECTION ----- FP -----
- GAS ----- G -----
- SANITARY SEWER ----- SS -----
- TELEPHONE ----- T -----
- UNDERGROUND TELEPHONE ----- UT -----
- FIBER OPTIC ----- FO -----
- WATER ----- W -----
- FORCE MAIN ----- FM -----
- STORM DRAIN ----- SD -----
- INDIVIDUAL TREE
- LIGHT POLE LP
- UTILITY POLE PP
- MANHOLE MH
- CLEAN OUT CO
- DROP INLET/CATCH BASIN DI, CB
- FIRE HYDRANT FH
- WATER VALVE WV



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CONSTRUCTION DRAWINGS

EXISTING CONDITION

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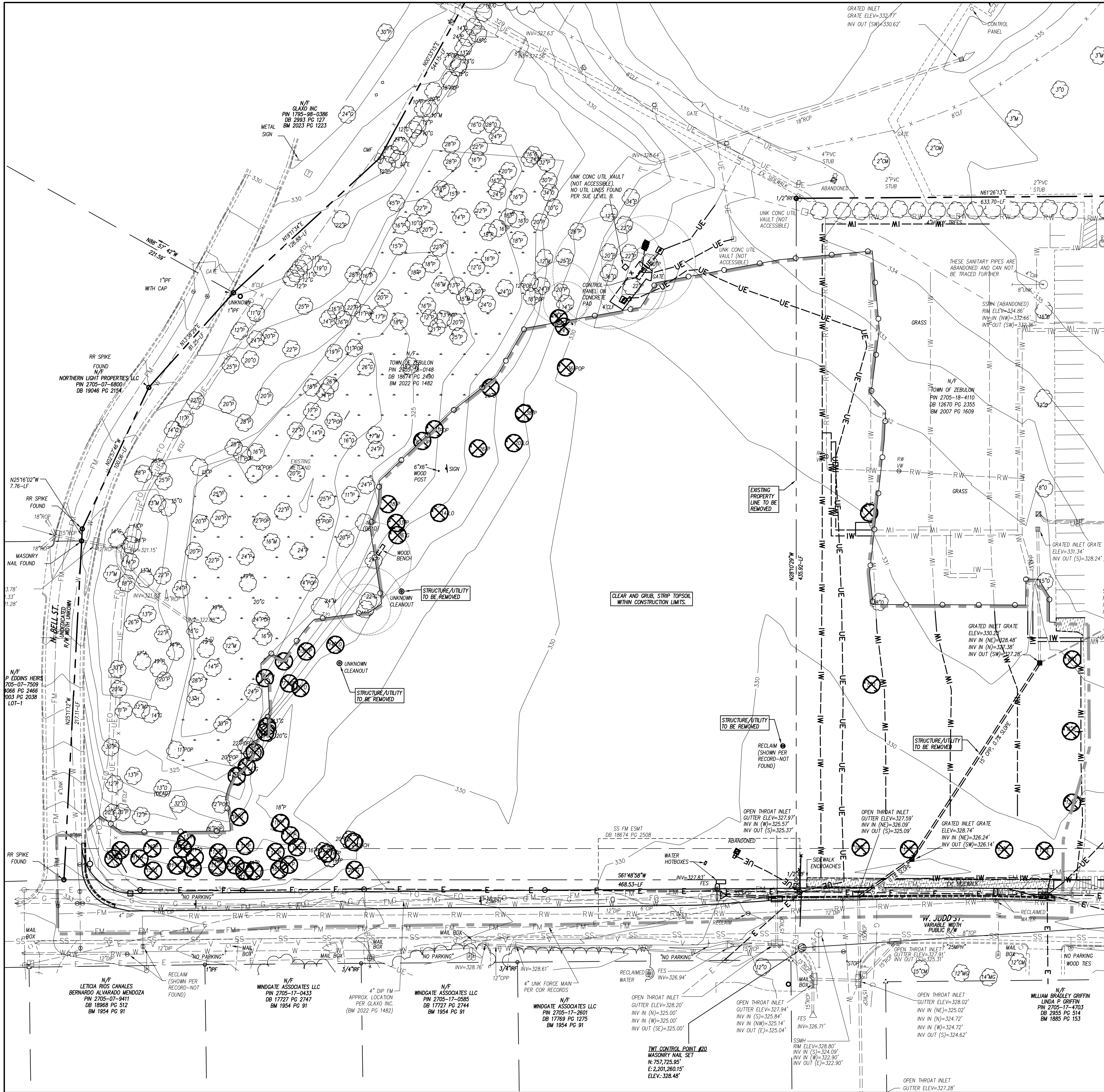
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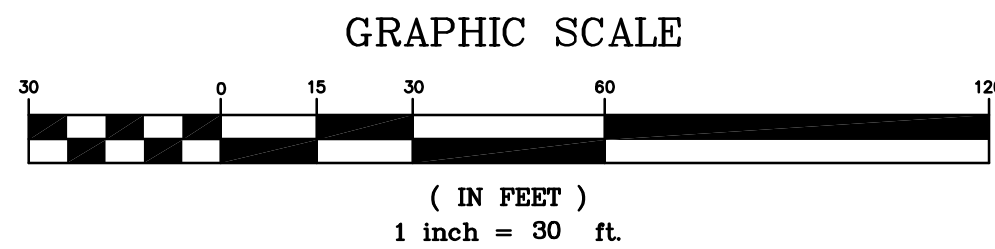
SHEET NUMBER

C201



| LEGEND | |
|------------------------------------|---------------------------------|
| STRUCTURES/UTILITIES TO BE REMOVED | STRUCTURES/UTILITIES TO REMAIN |
| OVERHEAD ELECTRICAL | OVERHEAD ELECTRICAL |
| UNDERGROUND ELECTRICAL | UNDERGROUND ELECTRICAL |
| FIRE PROTECTION | FIRE PROTECTION |
| GAS | GAS |
| SANITARY SEWER | SANITARY SEWER |
| TELEPHONE | TELEPHONE |
| UNDERGROUND TELEPHONE | UNDERGROUND TELEPHONE |
| FIBER OPTIC | FIBER OPTIC |
| WATER | WATER |
| FORCE MAIN | FORCE MAIN |
| STORM DRAIN | STORM DRAIN |
| INDIVIDUAL TREE TO BE REMOVED | INDIVIDUAL TREE TO REMAIN |
| LIGHT POLE | LIGHT POLE |
| UTILITY POLE | UTILITY POLE |
| MANHOLE | MANHOLE |
| CLEAN OUT | CLEAN OUT |
| DROP INLET/CATCH BASIN | DROP INLET/CATCH BASIN |
| FIRE HYDRANT | FIRE HYDRANT |
| WATER VALVE | WATER VALVE |
| CONSTR./CLEARING LIMITS | PAYMENT, S/W, C&G TO BE REMOVED |
| TREE PROTECTION FENCE | |

- GENERAL NOTES**
- ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED BY A DASH ON THIS PLAN SHALL BE REMOVED.
 - ALL PAVEMENT OR CONCRETE TO BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
 - ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
 - ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
 - EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY TAYLOR WISEMAN & TAYLOR, PERFORMED REX V. BOHN. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
 - INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
 - TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
 - PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
 - VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN. CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
 - PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT. AREAS TO BE PROTECTED, REPAIRED AND CLEANED SHALL ALSO INCLUDE ANY STAGING AREAS, ACCESS ROUTES AND OTHER EXISTING IMPROVEMENTS WITHIN THE CONSTRUCTION LIMITS THAT ARE TO REMAIN.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
 - DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK.
 - THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720270500K, DATED 7/19/2022 AS BEING WITHIN ZONE "X-OTHER AREA".
 - NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.



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CONSTRUCTION DRAWINGS

DEMO PLAN

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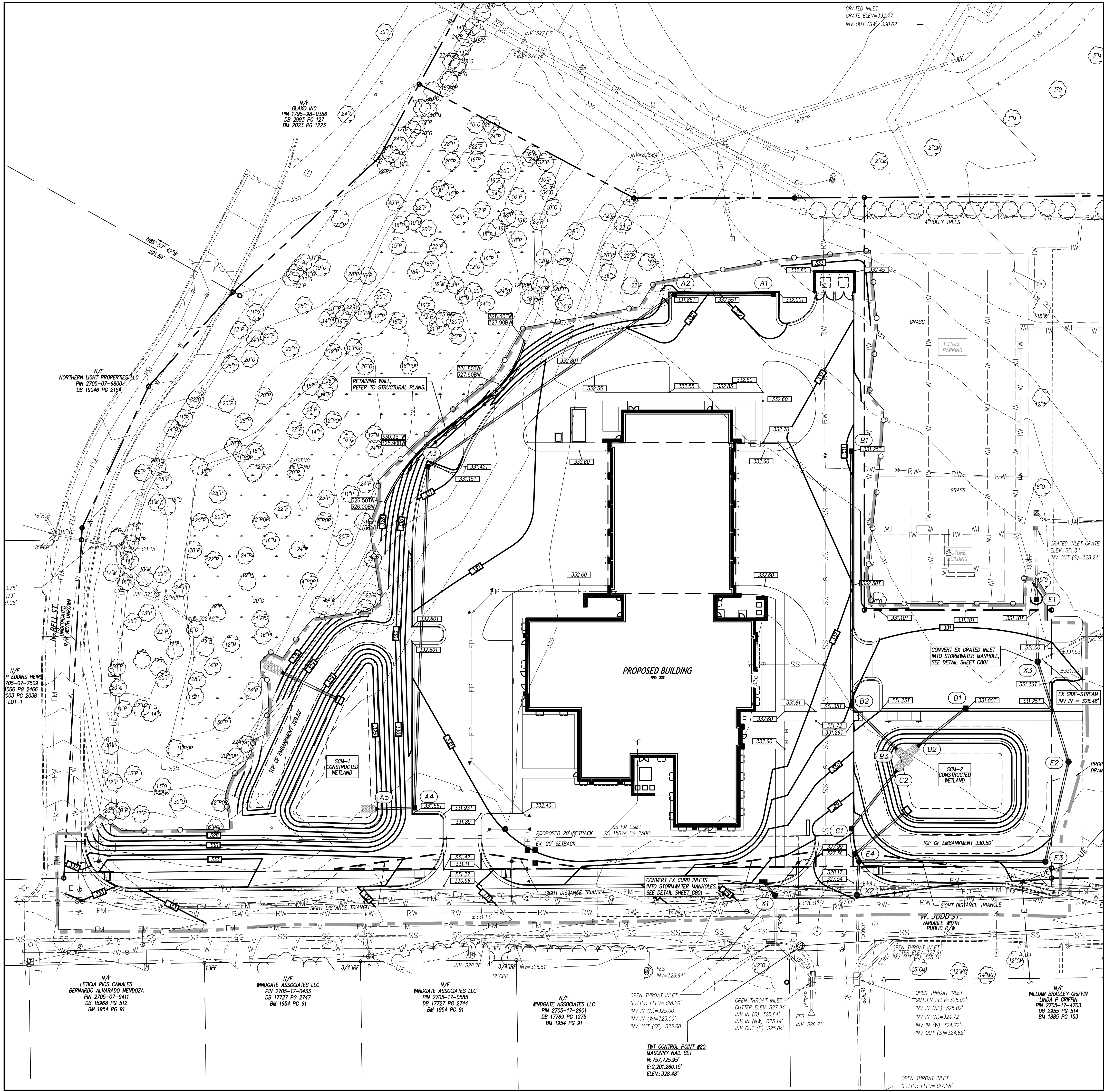
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C202



GRADING LEGEND

EXISTING CONTOURS
FINAL CONTOURS
EXISTING SURVEY SPOT ELEVATION
PROPOSED TOP OF CURB SPOT ELEVATION
PROPOSED GROUND/PAVEMENT ELEVATION
PROPOSED FINISHED GRADE AT TOP OF WALL ELEVATION
PROPOSED FINISHED GRADE AT BOTTOM OF WALL ELEVATION
STORM STRUCTURE NUMBER
EXISTING STORM DRAIN PIPE
PROPOSED STORM DRAIN PIPE
PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
PROPOSED ROOF DRAIN
TREE PROTECTION FENCE

TYP. GRADE DESIGNATIONS AT SITE WALLS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF ZEBULON AND NCDOT STANDARDS AND SPECIFICATIONS.
- ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
- TOTAL DENUDED AREA = 4 AC
- CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
- ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C801.
- EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE.
- ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
- THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
- THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
- THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
- CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

| DRAINAGE STRUCTURE SCHEDULE | | | | | | | | | | | |
|---|---------|------------|----------------|------------------|------------|---|-----------------|-------------------------|------------|------|-------|
| STRUCTURE NO. | | PIPE SLOPE | PIPE DIA. (IN) | PIPE LENGTH (LF) | PIPE MAT'L | UPPER INV. (FT) | LOWER INV. (FT) | UPSTREAM STRUCTURE DATA | | | |
| UP STRM | DN STRM | | | | | | | TOP ELEV. (FT) (1) | DEPTH (FT) | TYPE | NOTES |
| A1 | A2 | 0.60% | 15 | 64 | RCP | 327.81 | 327.42 | 332.00 | 4.19 | CB | |
| A2 | A3 | 0.60% | 15 | 193 | RCP | 327.32 | 326.16 | 331.85 | 4.53 | CB | |
| A3 | A4 | 0.60% | 15 | 219 | RCP | 326.06 | 324.75 | 331.15 | 5.09 | CB | |
| A4 | A5 | 0.60% | 15 | 25 | RCP | 324.65 | 324.50 | 331.55 | 6.90 | CB | 4 |
| B1 | B2 | 0.50% | 15 | 163 | RCP | 327.26 | 326.45 | 331.25 | 3.99 | CB | |
| B2 | B3 | 0.50% | 15 | 19 | RCP | 326.35 | 326.25 | 331.35 | 5.01 | CB | 4 |
| C1 | C2 | 0.50% | 15 | 48 | RCP | 326.49 | 326.25 | 328.60 | 2.11 | CB | 4 |
| D1 | D2 | 2.00% | 15 | 40 | RCP | 327.05 | 326.25 | 331.00 | 3.95 | CB | 4 |
| E1 | X3 | 1.00% | 15 | 40 | RCP | 327.78 | 327.38 | 330.75 | 2.97 | DI | 7 |
| X3 | E2 | 1.12% | 15 | 67 | RCP | 327.28 | 326.53 | 330.90 | 3.62 | MH | |
| E2 | E3 | 0.50% | 15 | 66 | RCP | 326.43 | 326.10 | 330.25 | 3.82 | MH | |
| E3 | E4 | 0.50% | 15 | 119 | RCP | 326.00 | 325.41 | 329.50 | 3.50 | MH | |
| E4 | E5 | 0.50% | 15 | 21 | RCP | 325.31 | 325.20 | 327.86 | 2.56 | CB | 5.6 |
| LEGEND | | | | | | NOTES | | | | | |
| CB CATCH BASIN, SEE SHEET C801 DI DROP INLET, SEE SHEET C801 FES FLARED END SECTION, SEE SPECS RCP REINFORCED CONCRETE PIPE, CLASS II UNLESS OTHERWISE SPECIFIED | | | | | | 1. TOP ELEV. IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRADE FOR DROP INLETS AND INLINE AREA DRAINS, AND FINISH GRADE FOR CLEANOUTS. 2. ALL PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF GRATES, MANHOLES, OR TO THE END OF THE FES. 3. ALL FES INLETS & OUTLETS SHALL BE RCP. 4. DOWNSTREAM STRUCTURE IS A FES. 5. UPSTREAM STRUCTURE IS A DOUBLE CATCH BASIN. 6. PIPE SHALL BE CLASS II RCP. 7. UPSTREAM STRUCTURE IS A DOORHOUSE OVER EXISTING PIPE(S). | | | | | |
| A4 STRUCTURE I.D. NUMBER | | | | | | | | | | | |

GRAPHIC SCALE

1 inch = 30 ft.

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WAKE COUNTY
NORTH CAROLINA

PUBLIC SAFETY
WAKE COUNTY
EST. 1976

ZEBULON
PUBLIC SAFETY
STATION
1005 N ARENDELL AVENUE
ZEBULON, NC

CONSTRUCTION DRAWINGS

GRADING PLAN

DATE 02-21-2025
CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

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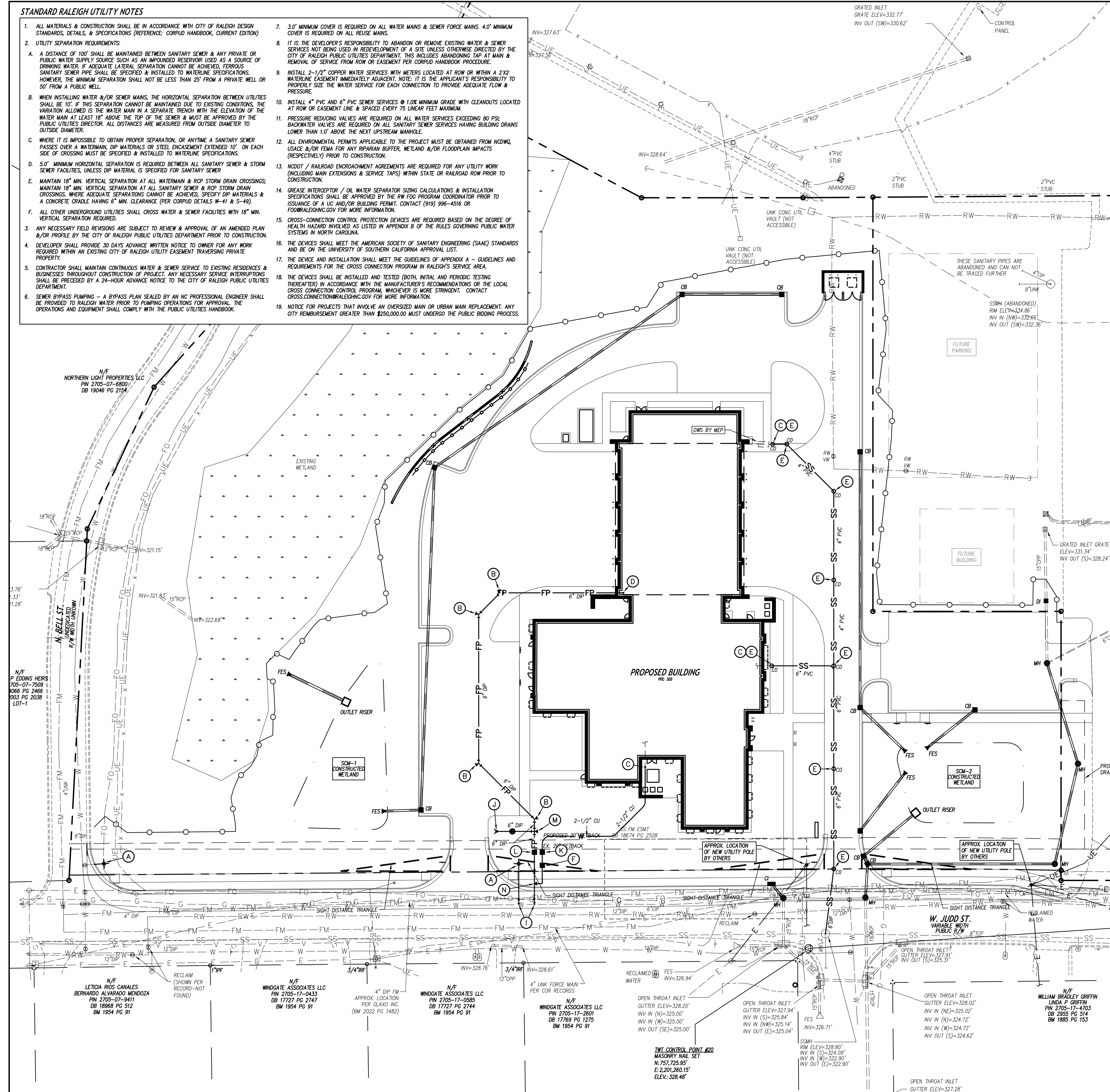
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SHEET NUMBER

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STANDARD RALEIGH UTILITY NOTES

- ALL MATERIALS & CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS, & SPECIFICATIONS (REFERENCE: CORPUS HANDBOOK, CURRENT EDITION)
- UTILITY SEPARATION REQUIREMENTS:
 - A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
 - WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
 - WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASMENT EXTENDED 10" ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
 - 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
 - MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUS DETAILS W-41 & S-49).
 - ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRaversing PRIVATE PROPERTY.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- SEWER BYPASS PUMPING - A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO RALEIGH WATER PRIOR TO PUMPING OPERATIONS FOR APPROVAL. THE OPERATIONS AND EQUIPMENT SHALL COMPLY WITH THE PUBLIC UTILITIES HANDBOOK.
- 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUS HANDBOOK PROCEDURE.
- INSTALL 2-1/2" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2X2 WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
- INSTALL 4" PVC AND 6" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWM, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
- GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE RW FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A UO AND/OR BUILDING PERMIT. CONTACT (919) 996-4516 OR FOG@RALEIGHNC.GOV FOR MORE INFORMATION.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON THE DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA.
- THE DEVICES SHALL MEET THE AMERICAN SOCIETY OF SANITARY ENGINEERING (ASAE) STANDARDS AND BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST.
- THE DEVICE AND INSTALLATION SHALL MEET THE GUIDELINES OF APPENDIX A - GUIDELINES AND REQUIREMENTS FOR THE CROSS CONNECTION PROGRAM IN RALEIGH'S SERVICE AREA.
- THE DEVICES SHALL BE INSTALLED AND TESTED (BOTH, INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT CROSS.CONNECTION@RALEIGHNC.GOV FOR MORE INFORMATION.
- NOTICE FOR PROJECTS THAT INVOLVE AN OVERSIZED MAIN OR URBAN MAIN REPLACEMENT. ANY CITY REIMBURSEMENT GREATER THAN \$250,000.00 MUST UNDERGO THE PUBLIC BIDDING PROCESS.



UTILITY LEGEND

| | EXISTING | PROPOSED |
|--|----------|----------|
| CHILLED WATER | ---CW--- | CW |
| ELECTRICAL (OVERHEAD) | ---E--- | E |
| ELECTRICAL (UNDERGROUND) | ---UE--- | UE |
| FOUNDATION DRAIN | ---FD--- | FD |
| GAS | ---G--- | G |
| SANITARY SEWER | ---SS--- | SS |
| TELEPHONE (OVERHEAD) | ---T--- | T |
| TELEPHONE (UNDERGROUND) | ---UT--- | UT |
| WATER | ---W--- | W |
| ROOF DRAIN | ---RD--- | RD |
| FIRE PROTECTION | ---FP--- | FP |
| STORM DRAIN | ---SD--- | SD |
| TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS | | |
| LIGHT POLE | ☆ LP | ★ |
| UTILITY POLE | ⚡ PP | ⚡ |
| MANHOLE | ○ MH | ● |
| CLEAN OUT | ⊙ CO | ⊙ |
| DROP INLET, CATCH BASIN | □ DI, CB | ■ |
| FIRE HYDRANT | ⚡ FH | ⚡ |
| WATER VALVE | ⊙ WV | ⊙ |
| POST INDICATOR VALVE (PIV) | | ⚡ |
| FIRE DEPARTMENT CONNECTION (FDC) | | ⚡ |
| THRUST BLOCKING | | ⚡ |
| SANITARY SEWER STRUCTURE IDENTIFICATION | | 1 |

KEY NOTES

- FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C802.
- THRUST BLOCKING, TYP, SEE DETAIL SHEET C802.
- EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION AND INVERTS.
- EXTEND WATER LINE TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C803. REFER TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- CLEANOUT, SEE DETAIL SHEET C803.
- 3-IN DOMESTIC WATER METER, SEE DETAIL SHEET C802.
- GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C802.
- DOWNSPOUT CONNECTION, SEE DETAIL SHEET C803.
- 6"x6" TAPPING SLEEVE, VALVE, AND BLOCKING ASSEMBLY SEE SPECIFICATIONS.
- FIRE DEPARTMENT CONNECTION, SEE DETAIL SHEET C803.
- 3-IN ZURN-WILKINS MODEL 375 REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C802. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6-IN ZURN-WILKINS MODEL 475 REDUCED PRESSURE ZONE BACKFLOW ASSEMBLY (RPZ) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C802. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- 6"x6" TEE & THRUST BLOCKING.
- SERVICE SADDLE & CORPORATION STOP, SEE SPECIFICATIONS.

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval _____
Raleigh Water Review Officer _____

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CONSTRUCTION DRAWINGS

UTILITY PLAN

DATE 02-21-2025

CLH PROJECT NO 22-154

REVISIONS
NO DATE DESCRIPTION:

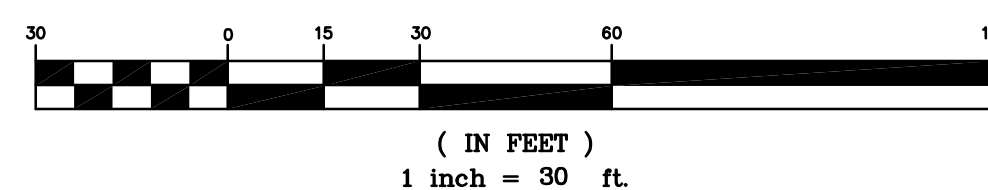
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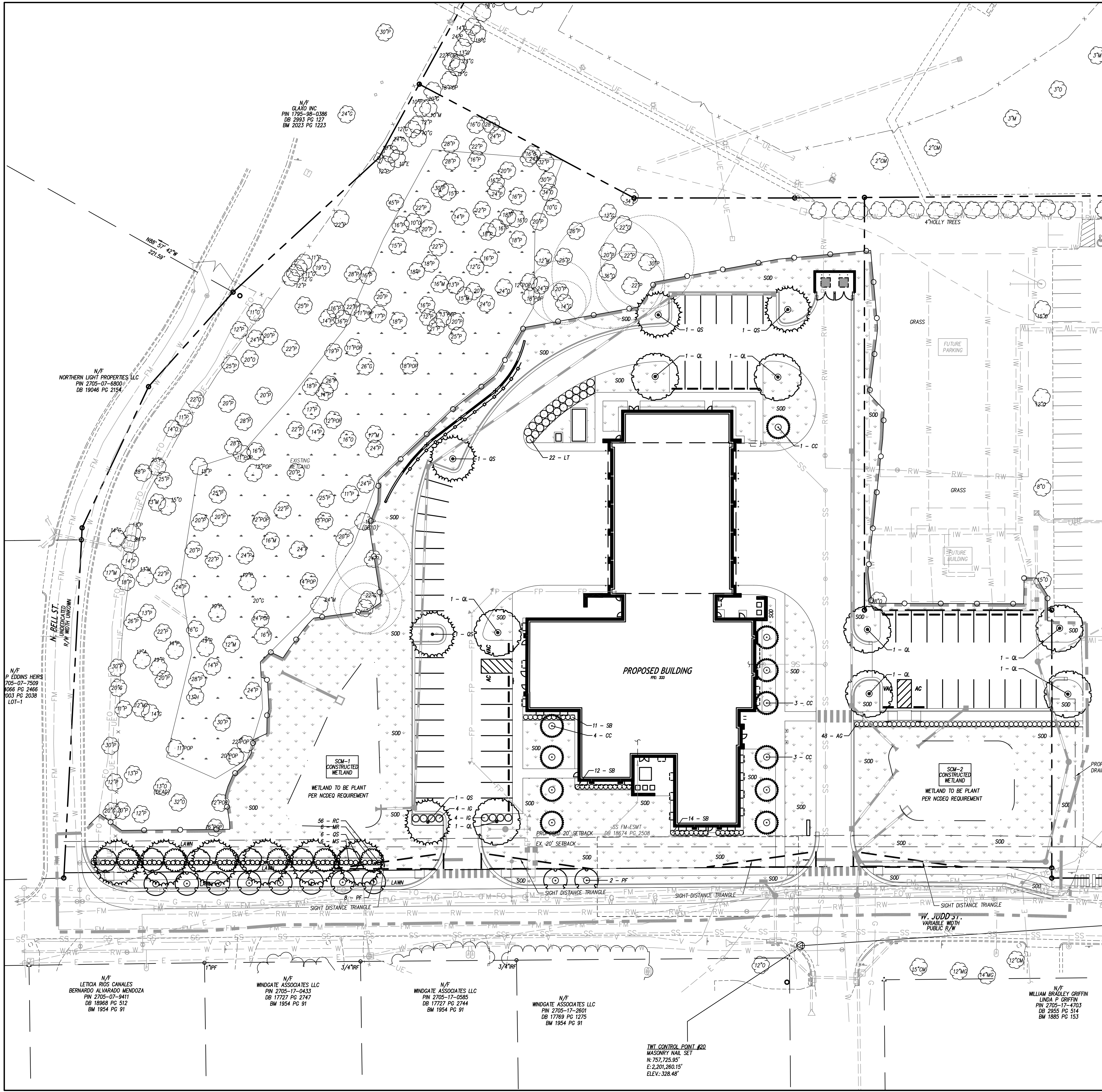
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SHEET NUMBER

C501

GRAPHIC SCALE





| PLANT LIST | | | | | |
|--|-----|--|---------------------------------|-----------------------|--------------|
| CODE | QTY | BOTANICAL / COMMON NAME | CONT | CAL | SIZE |
| TREES | | | | | |
| CC | 11 | CERCIS CANADENSIS EASTERN REDBUD | B&B, STRAIGHT TRUNK, FULL CROWN | 2" MIN. | 6' HT. MIN. |
| MR | 6 | MAGNOLIA STELLATA 'ROYAL STAR' | B&B, STRAIGHT TRUNK, FULL CROWN | 2" MIN. | 6' HT. MIN. |
| MS | 6 | MAGNOLIA VIRGINIANA SWEETBAY MAGNOLIA | B&B, STRAIGHT TRUNK, FULL CROWN | 2" MIN. | 6' HT. MIN. |
| PF | 10 | PRUNUS X 'FIRST LADY' FIRST LADY FLOWERING CHERRY | B&B, STRAIGHT TRUNK, FULL CROWN | 2" MIN. | 6' HT. MIN. |
| QL | 8 | QUERCUS LYRATA OVERCUP OAK | B&B, STRAIGHT TRUNK, FULL CROWN | 2.5" MIN. | 12' HT. MIN. |
| QS | 11 | QUERCUS SHUMARDII SHUMARD OAK | B&B, STRAIGHT TRUNK, FULL CROWN | 2.5" MIN. | 12' HT. MIN. |
| CODE | QTY | BOTANICAL / COMMON NAME | CONT | | SIZE |
| SHRUBS | | | | | |
| AG | 48 | ABELIA X GRANDIFLORA GLOSSY ABELIA | CONT. | - | 18"-24" HT. |
| IG | 8 | ILEX GLABRA INKBERRY HOLLY | CONT. | - | 18"-24" HT. |
| LT | 22 | LIGUSTRUM JAPONICUM 'TEXANUM' TEXAS JAPANESE PRIVET | CONT. | - | 48" HT. MIN. |
| RC | 56 | RHOODODENDRON CATAMBRIENSE CATAMBA RHOODODENDRON | CONT. | - | 18"-24" HT. |
| SB | 37 | SPIRAEA BETULIFOLIA BIRCHLEAF SPIREA | CONT. | - | 18"-24" HT. |
| TREE PROTECTION FENCE, SEE EROSION CONTROL PLANS | | | | SEE DETAIL SHEET C903 | |

- PARKING LOT LANDSCAPING (64 SPACES)**
- ONE CANOPY TREE FOR EVERY 12 QFT-STREET PARKING SPACES PROVIDED. (6 TREES)
 - PROVIDED: 13 TREES
 - PERIMETER PLANTINGS REQUIRED - EVERGREEN SHRUBS 3' ON CENTER AND 36" MIN HEIGHT.
 - PROVIDED: 56 SHRUBS
- FOUNDATION PLANTINGS**
- EVERGREEN SHRUBS OR DECORATIVE GRASSES WITH A MINIMUM HEIGHT OF 18 INCHES SHALL BE LOCATED WITHIN 10 FEET OF ANY BUILDING FOUNDATION WALL VISIBLE FROM A PUBLIC STREET EXCLUDING ALLEYS.
 - PROVIDED: 45 SHRUBS
 - ONE CANOPY TREE FOR EVERY 2,000 SQUARE FEET OF LOT AREA FOR THE FIRST 20,000 SQUARE FEET OF A LOT.
 - PROVIDED: 10 TREES
- PERIMETER BUFFERS:**
- **NO REQUIREMENT: EXEMPTION BETWEEN LOTS WITHIN THE DEVELOPMENT.
- NORTH BELL STREET - STREETSCAPE BUFFERS**
- **NO DEVELOPMENT: EXISTING WETLAND/VEGETATION.
- WEST JUDD STREET - STREETSCAPE BUFFERS**
- MINIMUM WIDTH: 15 FEET
- **NOT BE LOCATED WITHIN SIGHT DISTANCE TRIANGLES WHERE FIRE TRUCK EXT.
 - **NOT BE LOCATED WITHIN UTILITY EASEMENT.
- TYPE C SEMI-OPAQUE BUFFER:
- CANOPY TREES - 3 PER 100 LINEAR FEET. 33' ON-CENTER.
 - PROVIDED: 6 TREES
 - UNDERSTORY TREES - 6 PER 100 LINEAR FEET. 75% EVERGREEN
 - PROVIDED: 12 TREES
 - SHRUBS - 25 PER 100 LINEAR FEET, SPACED 3' MAX.
 - PROVIDED: 56 SHRUBS
- STREET TREES (360 FEET)**
- **NOT BE LOCATED WITHIN SIGHT DISTANCE TRIANGLES AS FIRE TRUCK EXT.
 - **WITHIN OVERHEAD POWER LINES
 - UNDERSTORY TREES SHALL BE PLANTED 20 TO 25 FEET ON-CENTER.
 - PROVIDED: 10 TREES

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LANDSCAPE PLAN

DATE 02-21-2025
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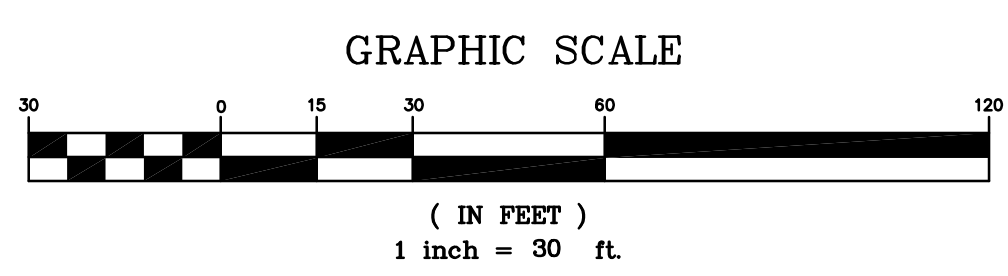
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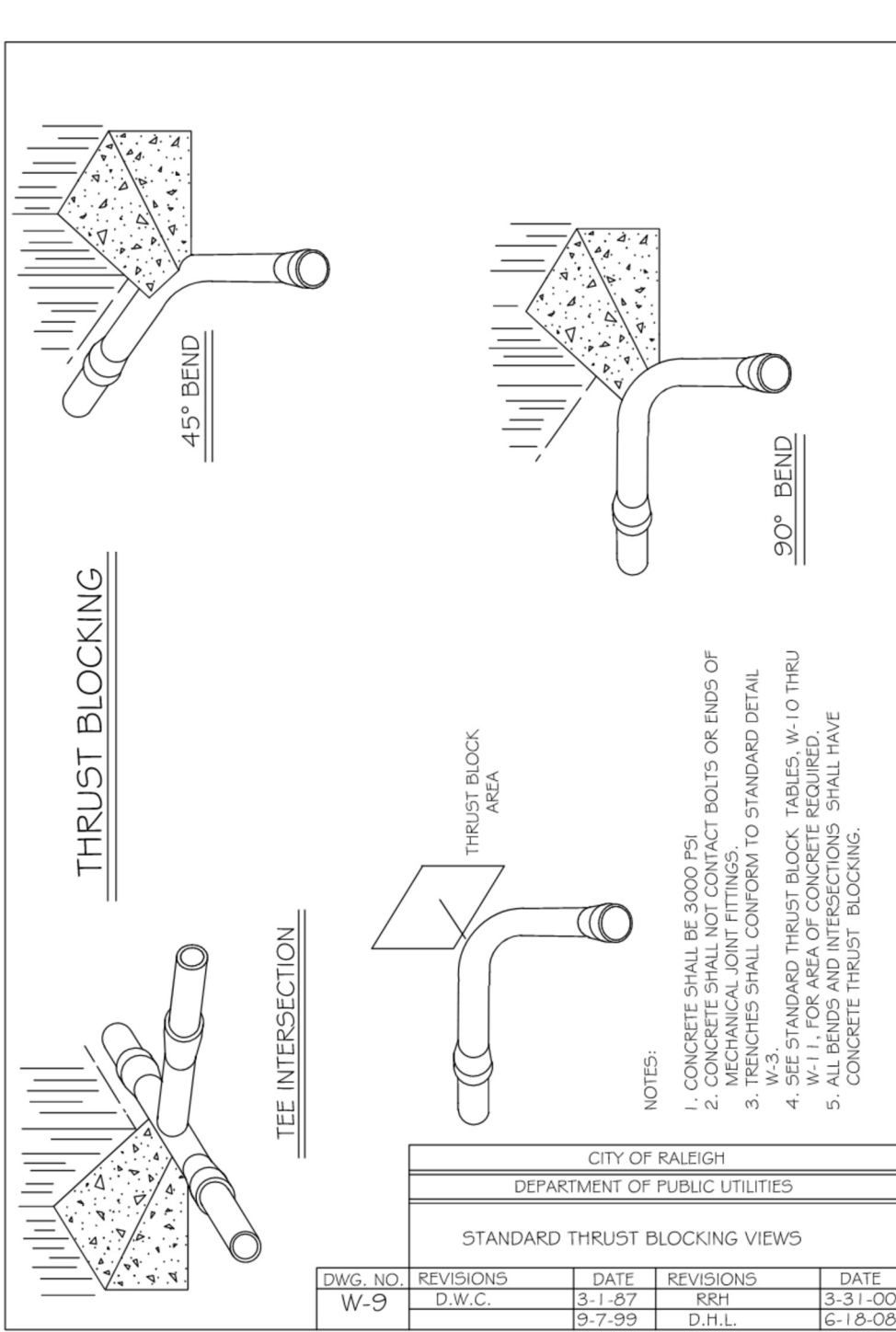
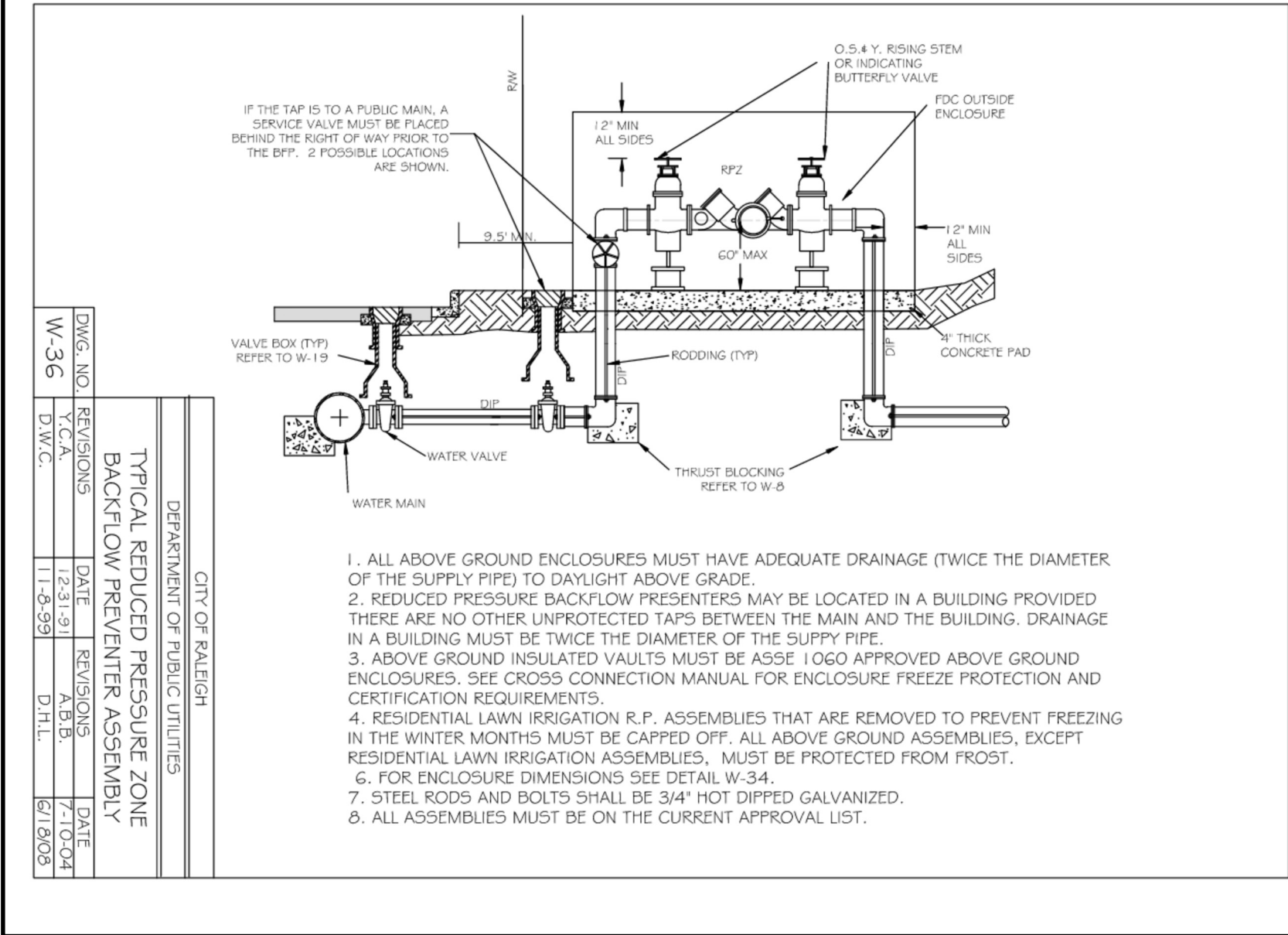
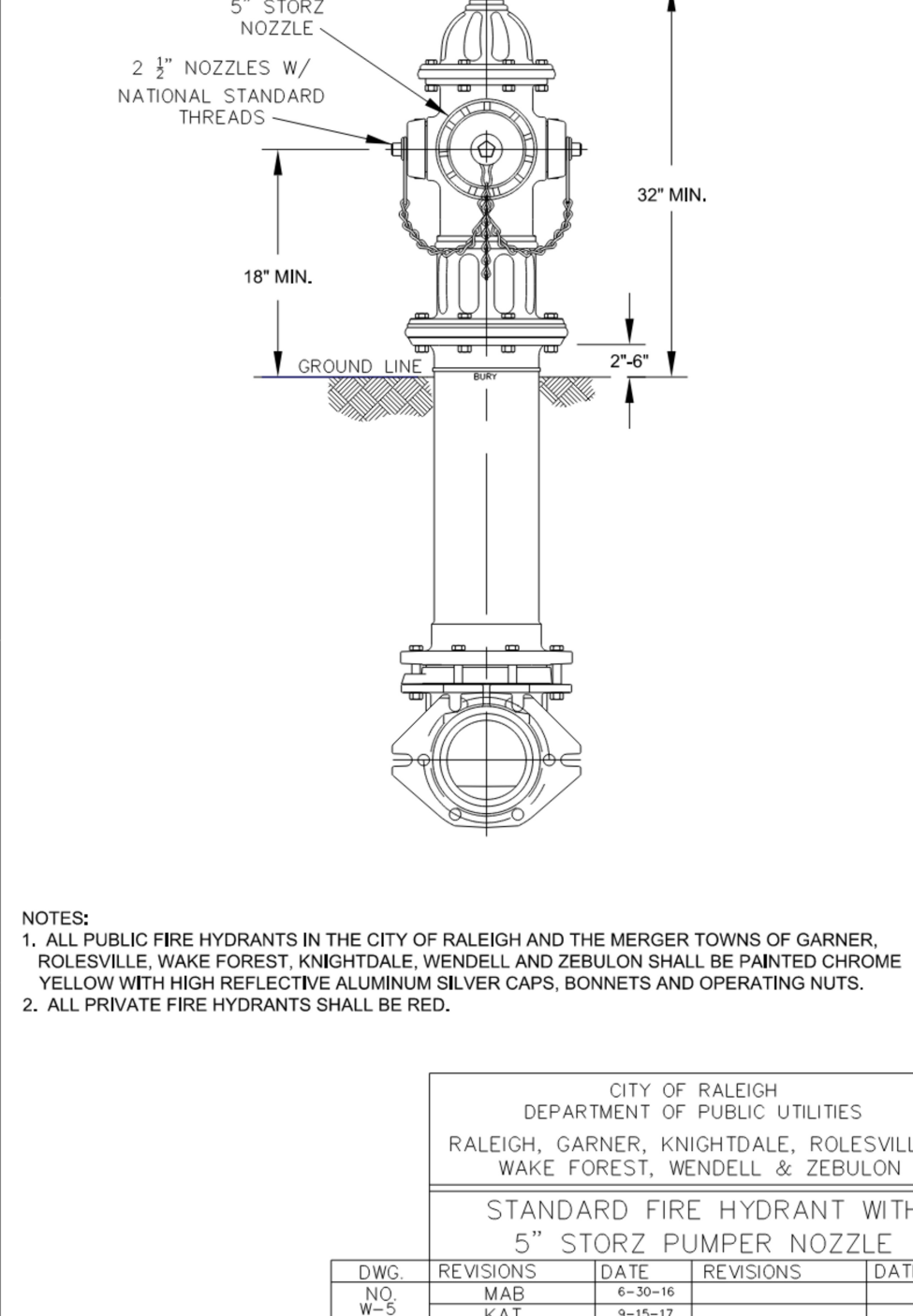
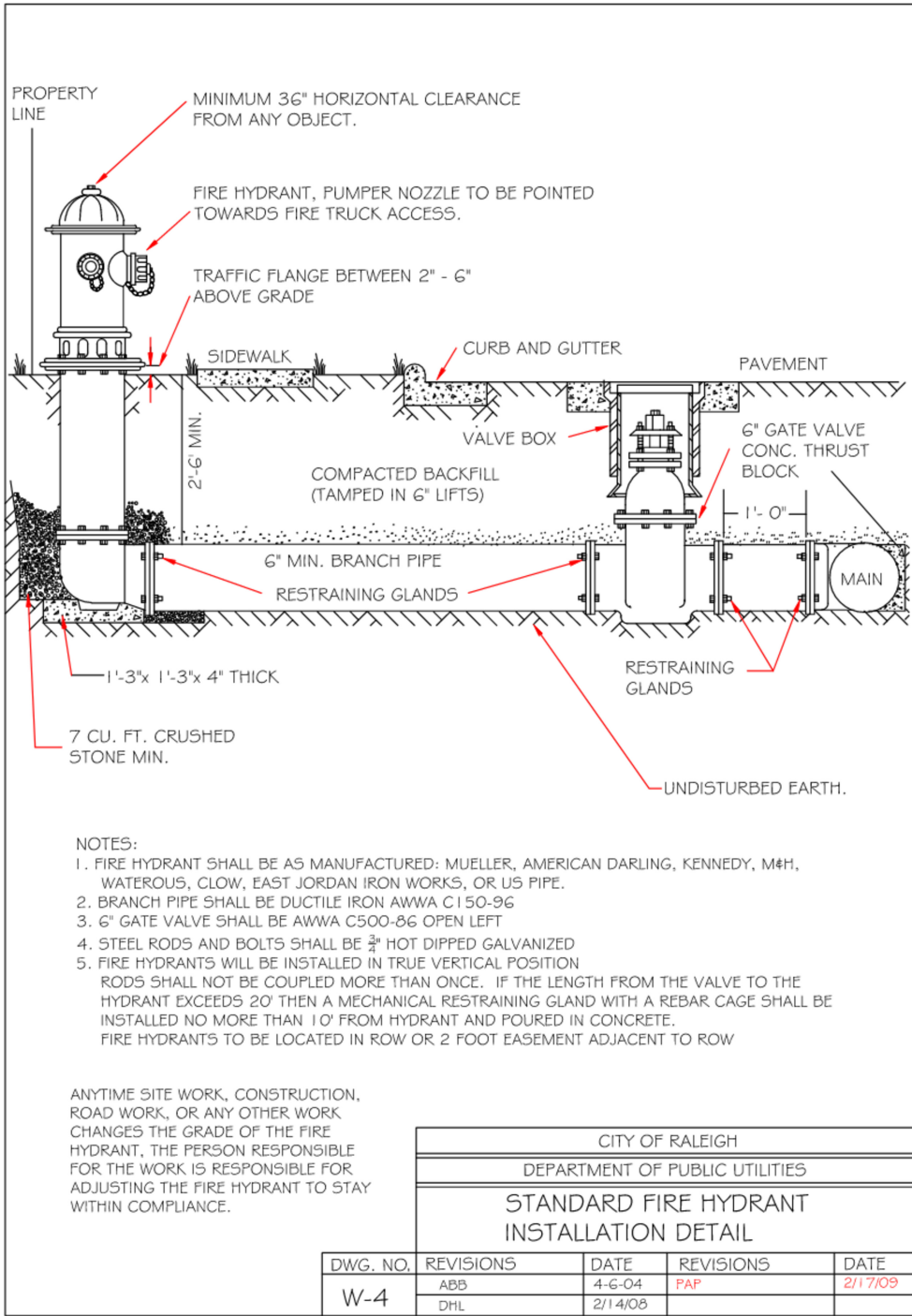
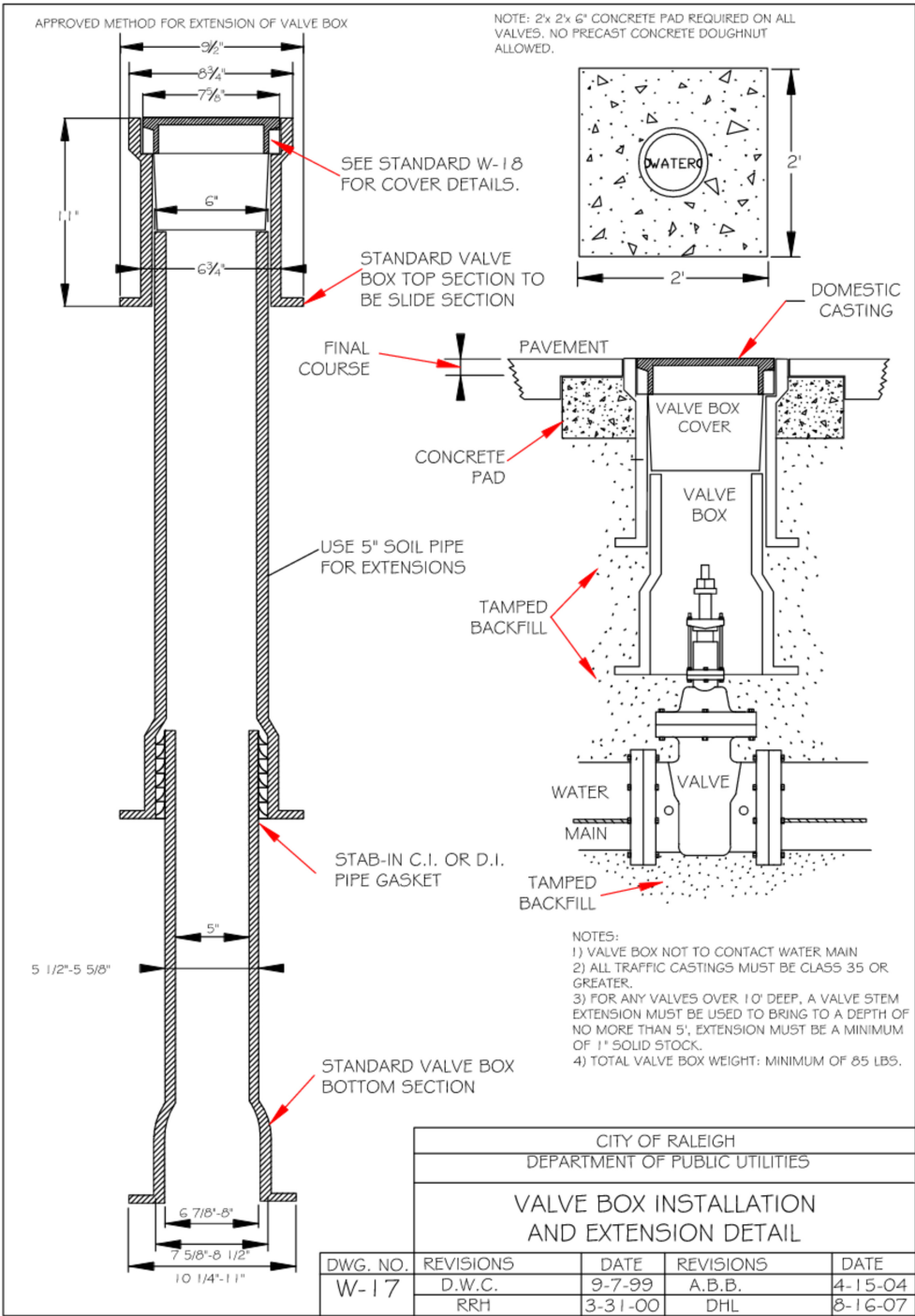
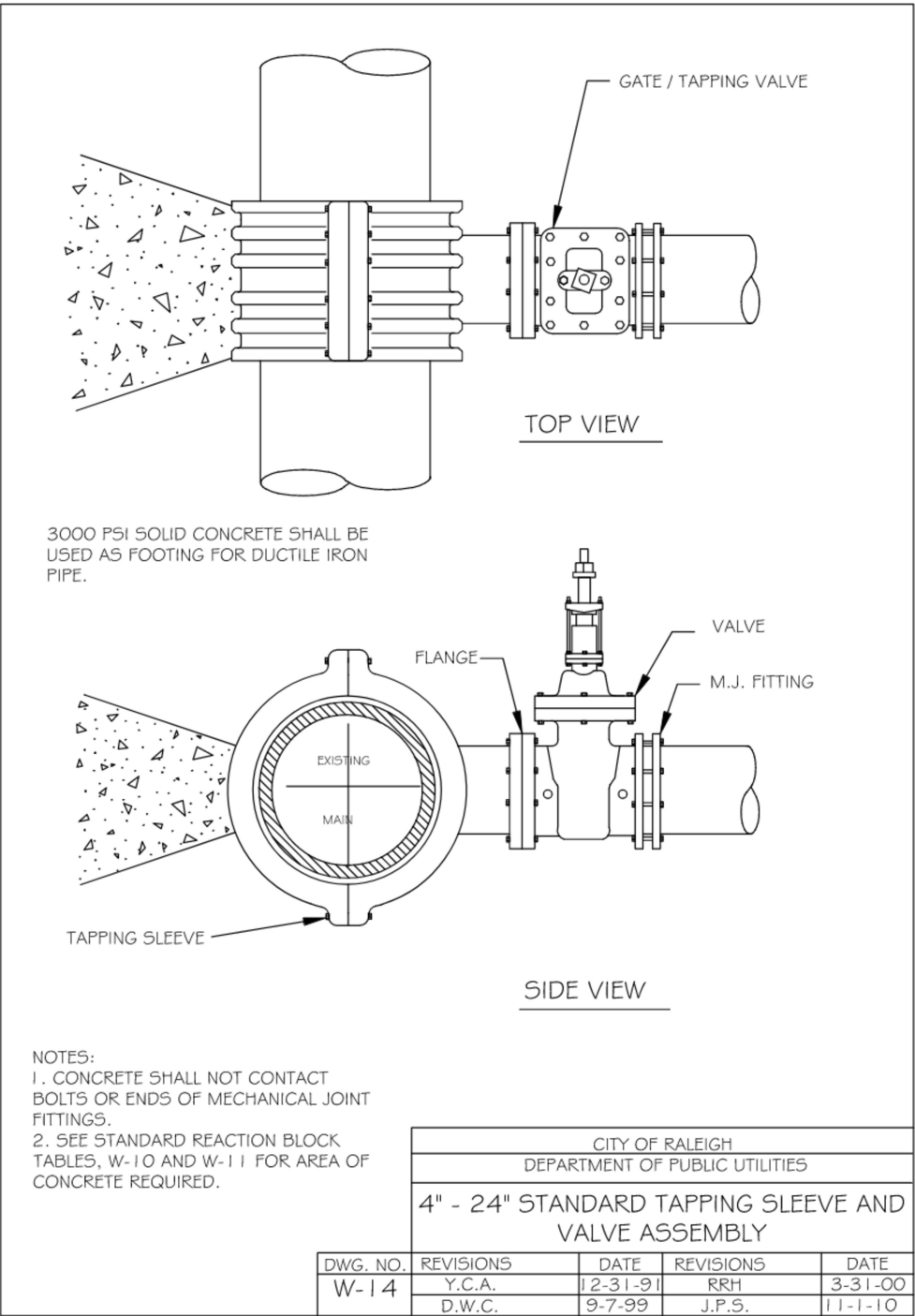
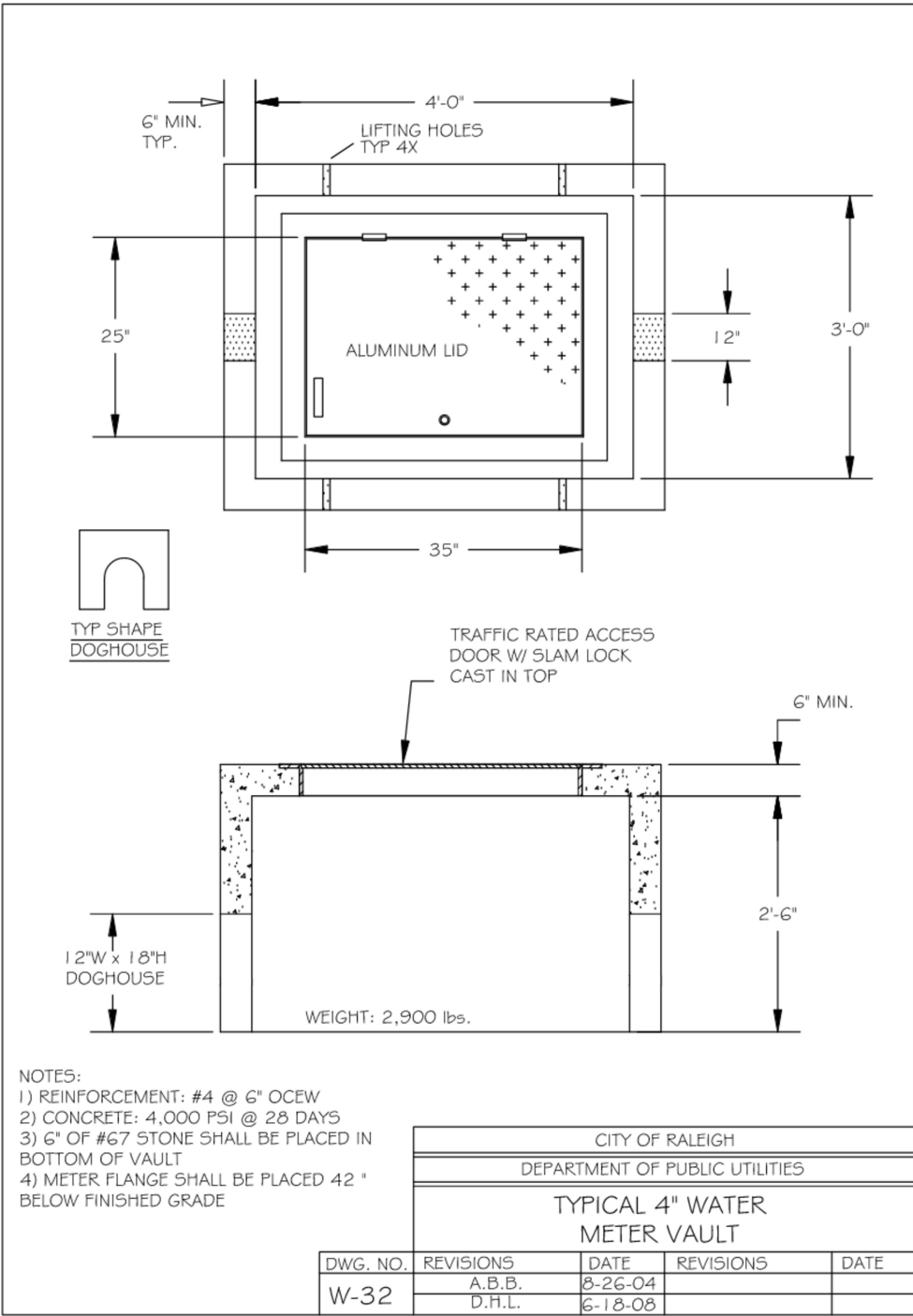
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SHEET NUMBER

C601







| REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS BASED ON TEST PRESSURE OF 200 P.S.I. | | | | | | | | | | |
|--|-------------------------|------------------------------|-----------------------------------|------------------------------------|----------------------------------|----------------------------------|--|--|--|--|
| ALL MEAS. GIVEN IN SQUARE FEET | | | | | | | | | | |
| SIZE AND DEGREE OF BEND | STATIC THRUST IN POUNDS | CLAY 4000 LB/FT ² | 200' CLAY 2000 LB/FT ² | LEG. BRICK 2000 LB/FT ² | CONCRETE 3000 LB/FT ² | ASBESTOS 1000 LB/FT ² | 200' COMPACT FIRM SAND 1000 LB/FT ² | 200' COMPACT FIRM SAND 1000 LB/FT ² | 200' COMPACT FIRM SAND 1000 LB/FT ² | 200' COMPACT FIRM SAND 1000 LB/FT ² |
| 6" | | | | | | | | | | |
| 11 1/4" | 1,108 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | |
| 22 1/2" | 2,207 | 1 | 2 | 2 | 1 | 1 | 1 | 3 | 1 | |
| 45° | 4,326 | 2 | 3 | 3 | 1 | 1 | 1 | 2 | 5 | 1 |
| 90° | 7,996 | 2 | 4 | 5 | 1 | 1 | 1 | 2 | 8 | 1 |
| PLUG | 5,655 | 2 | 3 | 4 | 1 | 1 | 1 | 2 | 6 | 1 |
| 8" | | | | | | | | | | |
| 11 1/4" | 1,970 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | |
| 22 1/2" | 3,922 | 1 | 2 | 3 | 1 | 1 | 1 | 4 | 1 | |
| 45° | 7,694 | 2 | 4 | 5 | 1 | 1 | 1 | 2 | 6 | 1 |
| 90° | 14,215 | 4 | 8 | 9 | 2 | 2 | 2 | 4 | 15 | 2 |
| PLUG | 10,053 | 3 | 5 | 6 | 2 | 2 | 2 | 3 | 10 | 1 |
| 12" | | | | | | | | | | |
| 11 1/4" | 4,433 | 2 | 3 | 3 | 1 | 1 | 1 | 2 | 5 | 1 |
| 22 1/2" | 8,866 | 3 | 5 | 6 | 2 | 2 | 2 | 3 | 9 | 1 |
| 45° | 17,312 | 5 | 9 | 11 | 3 | 3 | 3 | 5 | 18 | 2 |
| 90° | 31,963 | 8 | 16 | 19 | 4 | 4 | 4 | 8 | 32 | 4 |
| PLUG | 22,619 | 6 | 12 | 14 | 3 | 3 | 3 | 6 | 23 | 3 |
| 16" | | | | | | | | | | |
| 11 1/4" | 7,261 | 2 | 4 | 5 | 1 | 1 | 1 | 2 | 8 | 1 |
| 22 1/2" | 15,691 | 4 | 8 | 10 | 2 | 2 | 2 | 4 | 16 | 2 |
| 45° | 30,779 | 8 | 16 | 19 | 4 | 4 | 4 | 8 | 31 | 4 |
| 90° | 56,661 | 15 | 29 | 35 | 8 | 8 | 8 | 15 | 57 | 6 |
| PLUG | 40,213 | 10 | 21 | 25 | 5 | 5 | 5 | 10 | 41 | 5 |

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90° BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

| CITY OF RALEIGH DEPARTMENT OF PUBLIC UTILITIES | | | |
|---|-----------|---------|------|
| THRUST BLOCKING DESIGN QUANTITY TABLE | | | |
| DWG. NO. | REVISIONS | DATE | DATE |
| W-10 | D.W.G. | 6-23-99 | |

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UTILITY DETAILS

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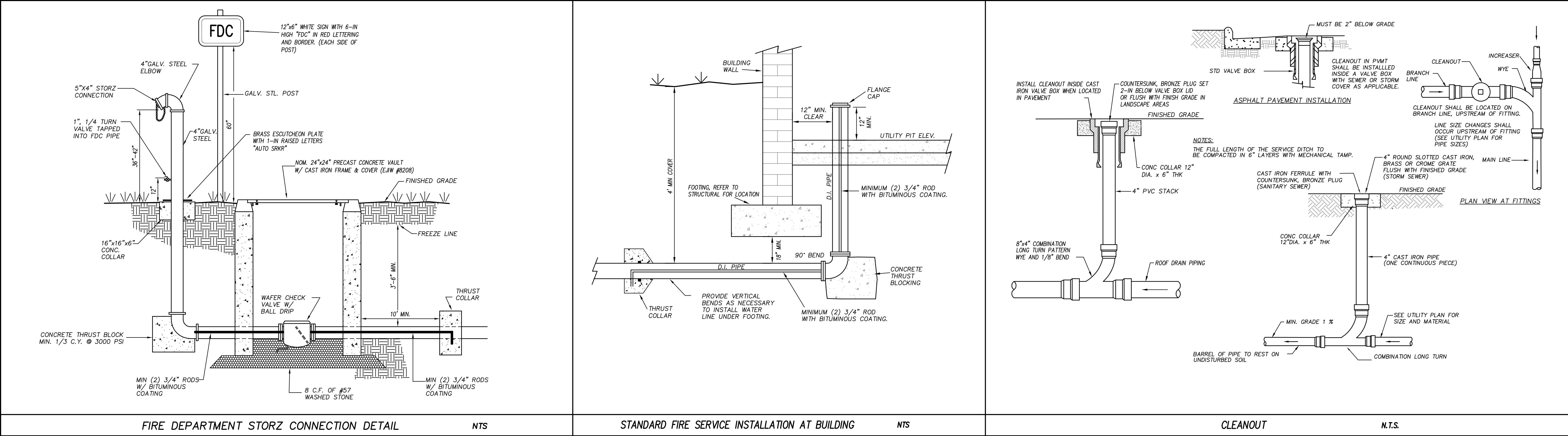
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C802



FIRE DEPARTMENT STORZ CONNECTION DETAIL

NTS

STANDARD FIRE SERVICE INSTALLATION AT BUILDING

NTS

CLEANOUT

N.T.S.



ZEBULON PUBLIC SAFETY STATION

1005 N ARENDELL AVENUE
ZEBULON, NC

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UTILITY DETAILS

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PRELIMINARY PLANS
FOR REVIEW ONLY
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CONSTRUCTION

SHEET NUMBER

C803



ZEBULON
PUBLIC SAFETY
STATION
1005 N ARENDELL AVENUE
ZEBULON, NC

CONSTRUCTION DRAWINGS

STAKING DETAILS

DATE 02-21-2025

CLH PROJECT NO 22-154

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| | LIGHT DUTY ASPHALT | HEAVY DUTY ASPHALT |
|--------------------------|-----------------------|-----------------------|
| SURFACE COURSE | TYPE S-9.5C 3" | TYPE S-9.5C 1.5" |
| BINDER COURSE | - | TYPE I-19.0C 3" |
| AGGREGATE BASE COURSE | 6 | 10 |
| COMPACTED SUBGRADE | *TWO LIFTS | |

SEE SPECIFICATIONS FOR PROOFROLLING, COMPACTION & TESTING REQUIREMENTS.

DETAIL IS FOR ON-SITE PAVING OPERATIONS ONLY.

THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.

THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

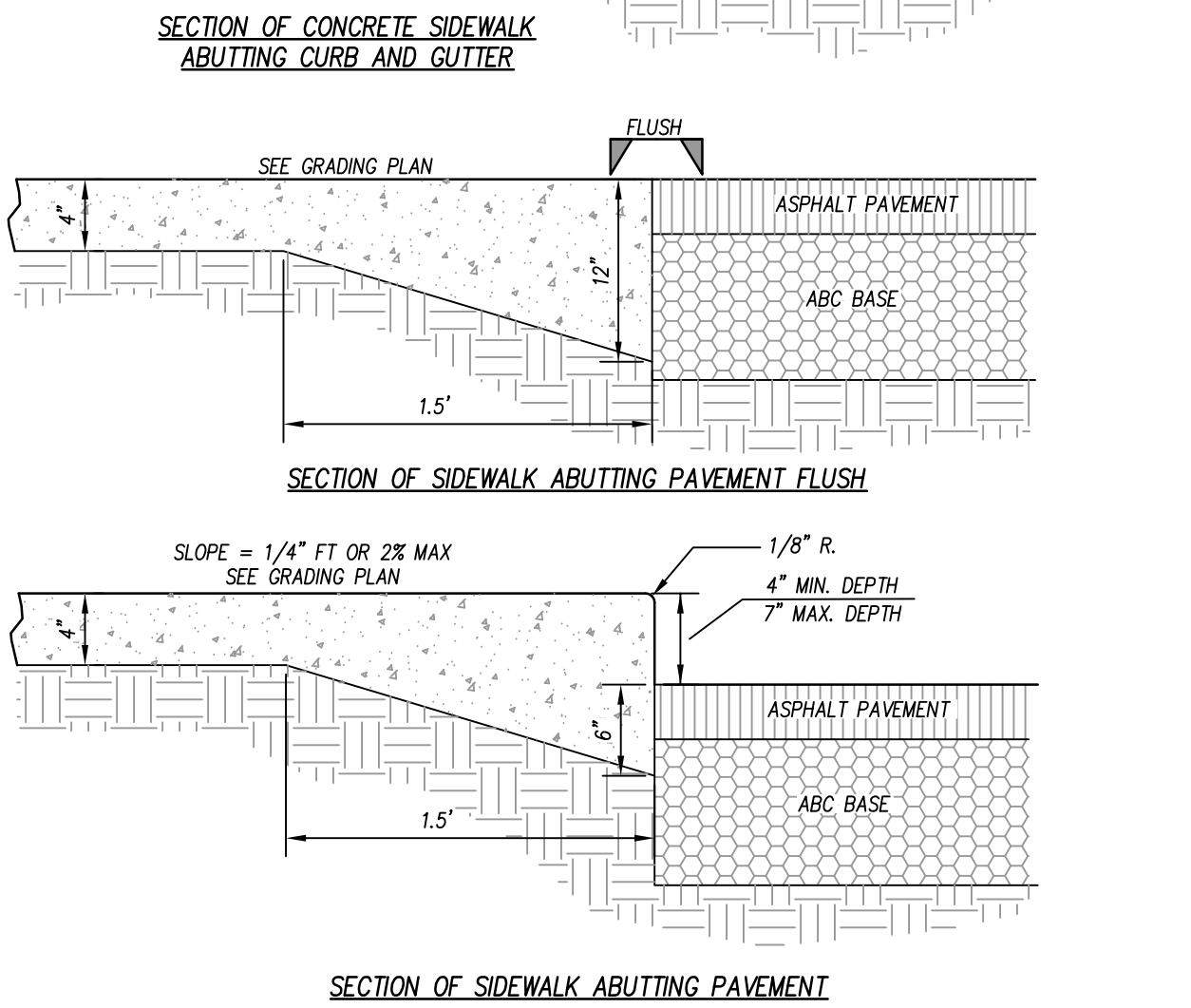
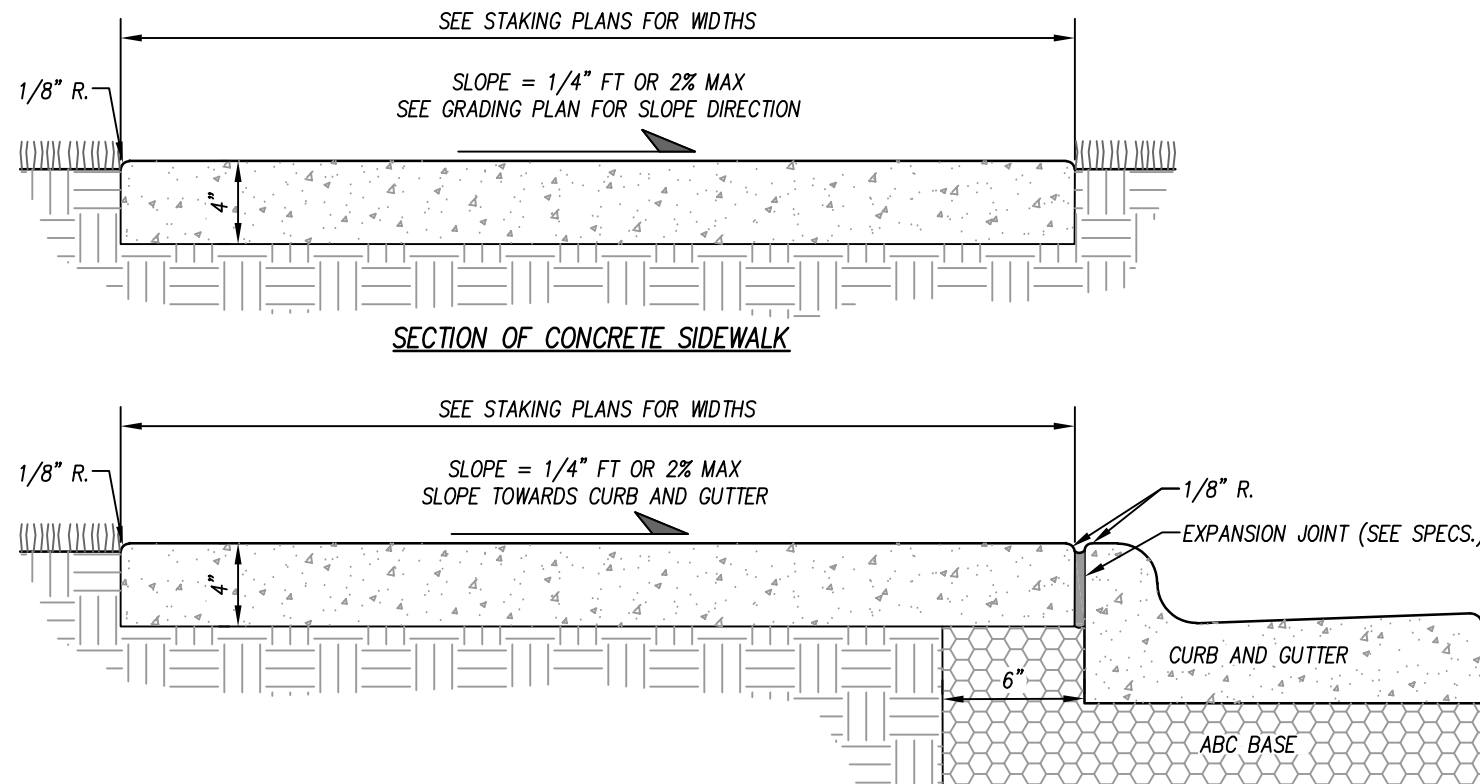
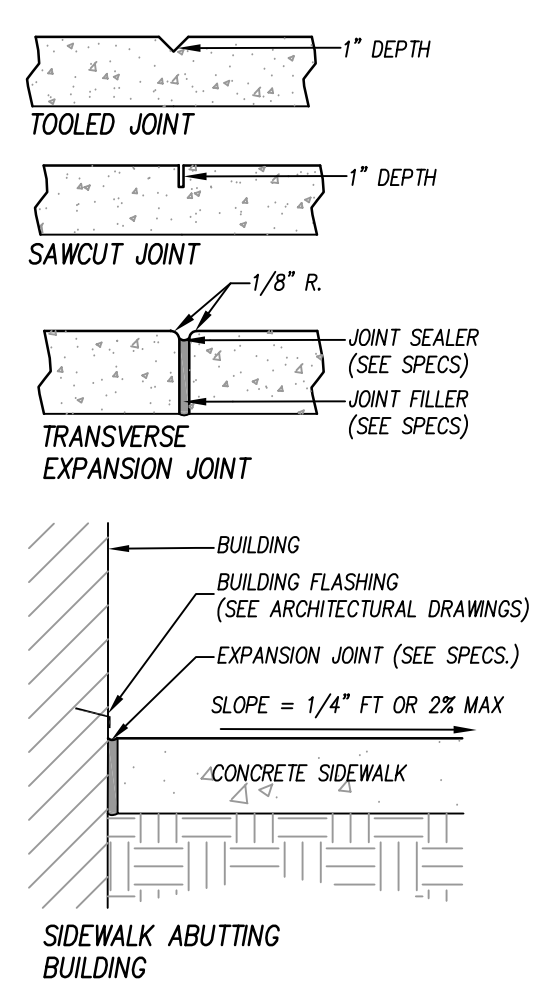
PAVEMENT SECTIONS

N.T.S.

STEEL BOLLARD

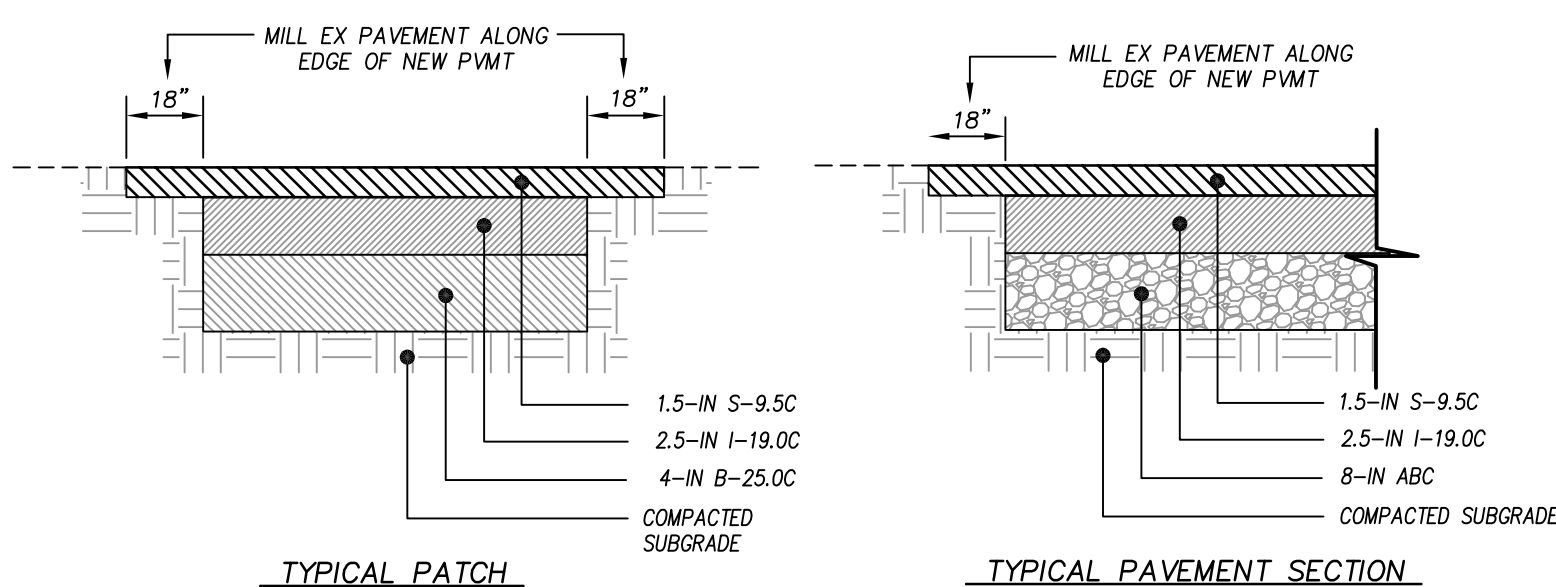
N.T.S.

- GENERAL NOTES:
1. PROVIDE GROOVE CONTROL JOINT 1.5-IN DEEP WITH 1/8-IN RADI IN EDGING AT 10' INTERVALS UNLESS INDICATED OTHERWISE.
 2. PROVIDE 1/2-IN WIDE EXPANSION JOINT AT 50' INTERVALS AND WHERE EDGING ABUTS ANY RIGID PAVEMENT AND/OR STRUCTURE.
 3. ALL CONCRETE SHALL BE 4,000 P.S.I.
 4. SURFACE SHALL RECEIVE FINE BROOM FINISH.



CONCRETE SIDEWALK

N.T.S.



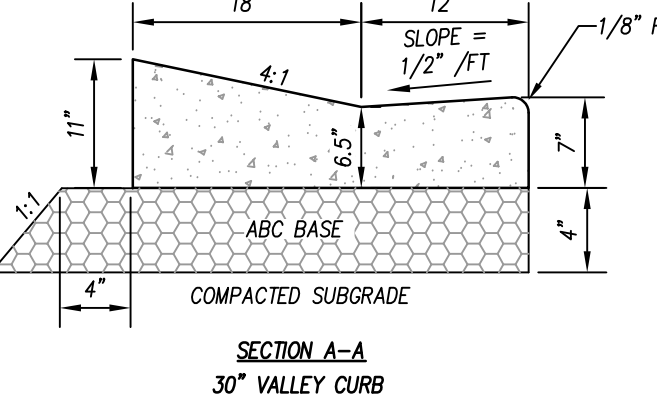
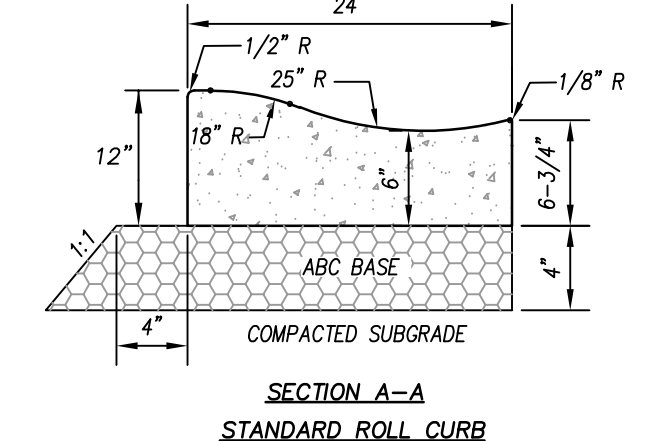
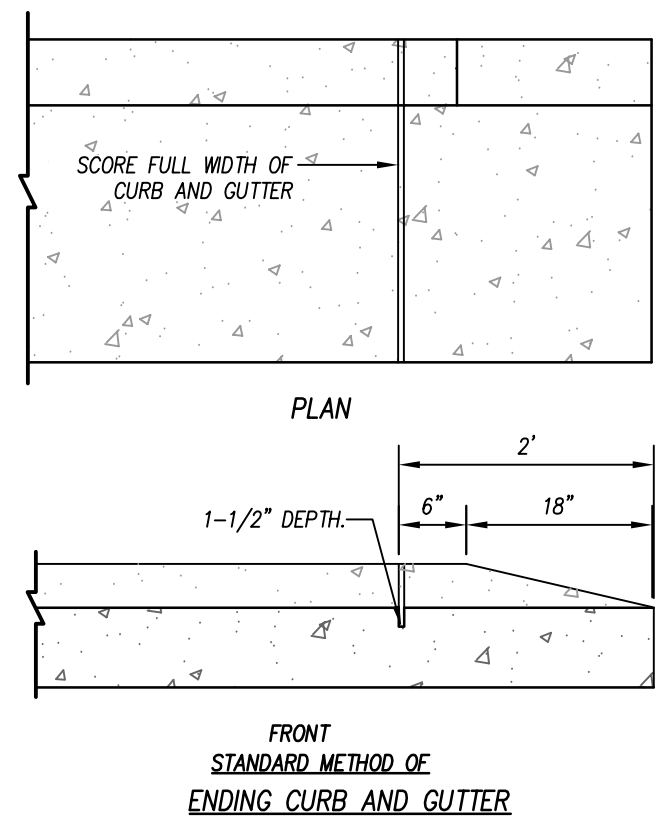
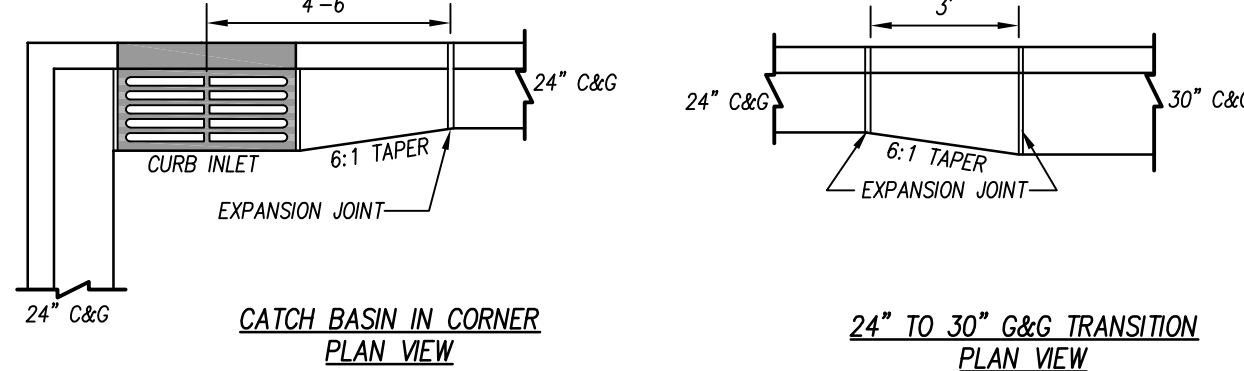
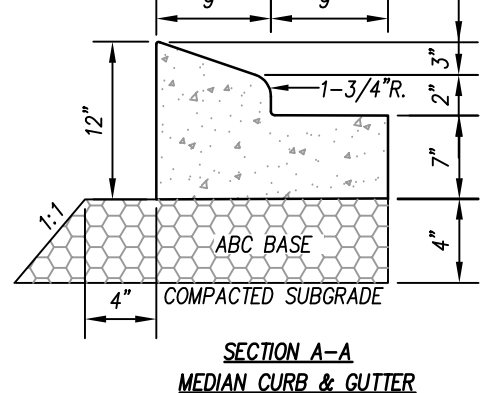
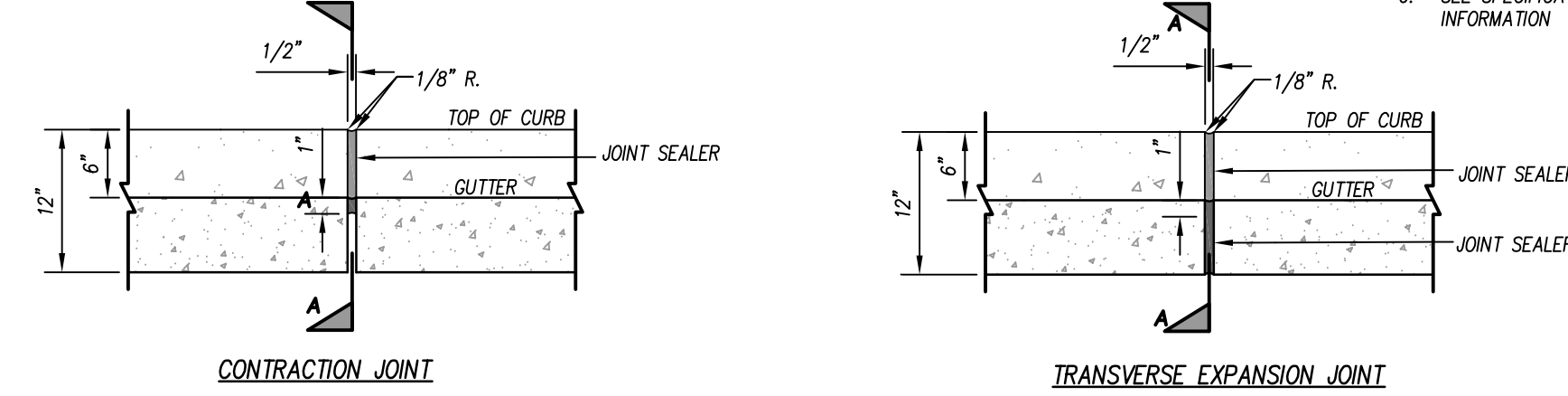
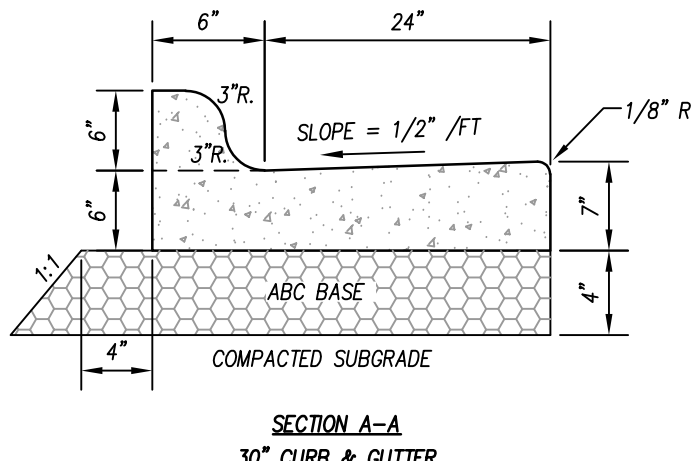
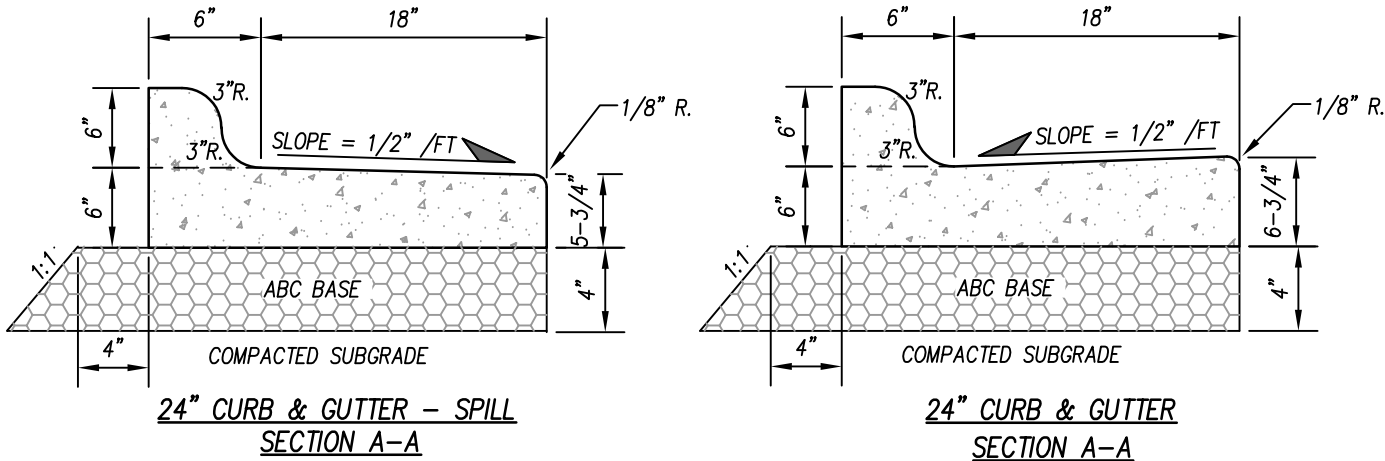
- NOTES:
1. ASPHALT PATCH SECTION SHALL BE INSTALLED WHERE PAVEMENT WIDTH IS LESS THAN 6'-FT.
 2. SEE EARTH MOVING AND ASPHALT PAVEMENT SPECIFICATIONS FOR PROOF-ROLLING, COMPACTION & TESTING REQUIREMENTS.
 3. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGES TO SUBGRADE, INSTALLED BASE COURSE AND/OR INTERMEDIATE PAVING PRIOR TO PLACING SUBSEQUENT PAVEMENT LIFTS AT NO ADDITIONAL COST.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.

ASPHALT PATCH

N.T.S.

CURB AND GUTTER NOTES:

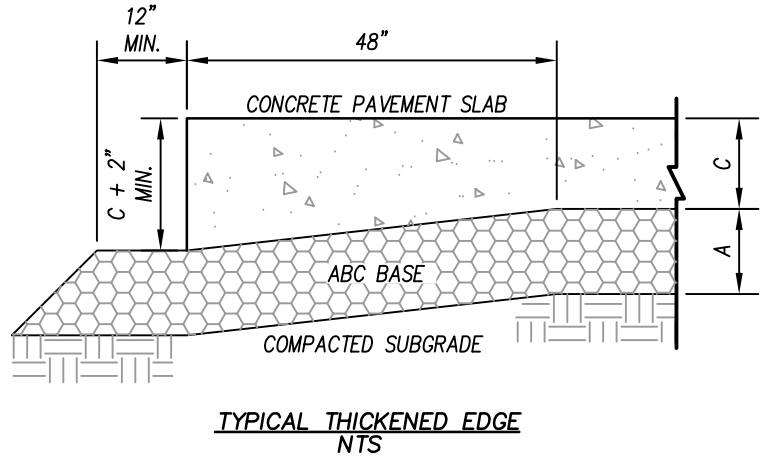
1. ALL CONCRETE SHALL BE 4,000 P.S.I. @ 28 DAYS
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.
6. SEE SPECIFICATION SECTION 32.13.13 FOR ADDITIONAL INFORMATION



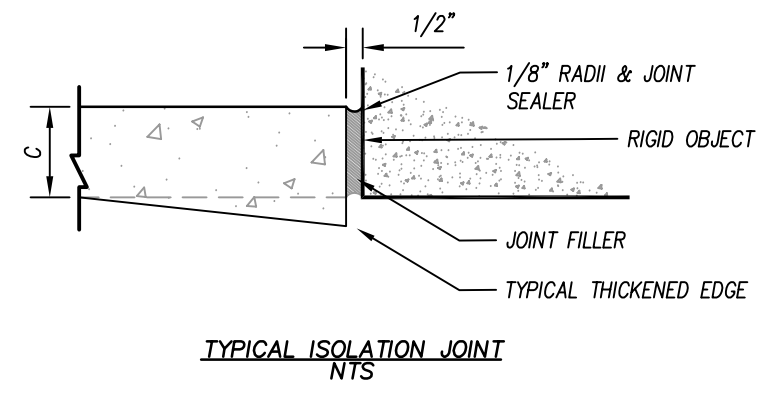
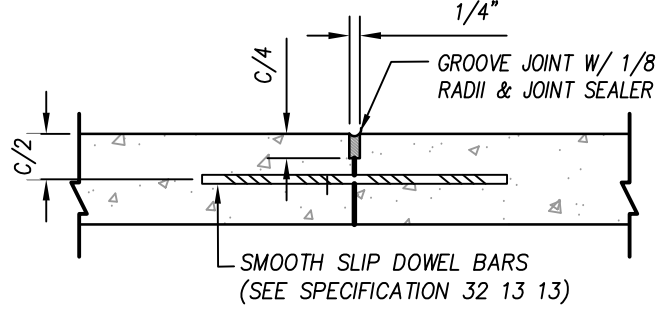
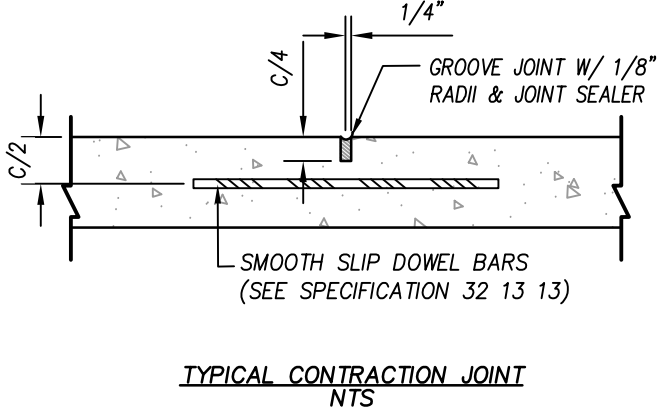
CURB AND GUTTER

N.T.S.

| CONCRETE PAVEMENT DIMENSIONS | |
|------------------------------|-----------|
| CONC SLAB THICKNESS, C | 8-IN |
| ABC THICKNESS, A | 4-IN |
| DOWEL DIAMETER | SEE SPECS |

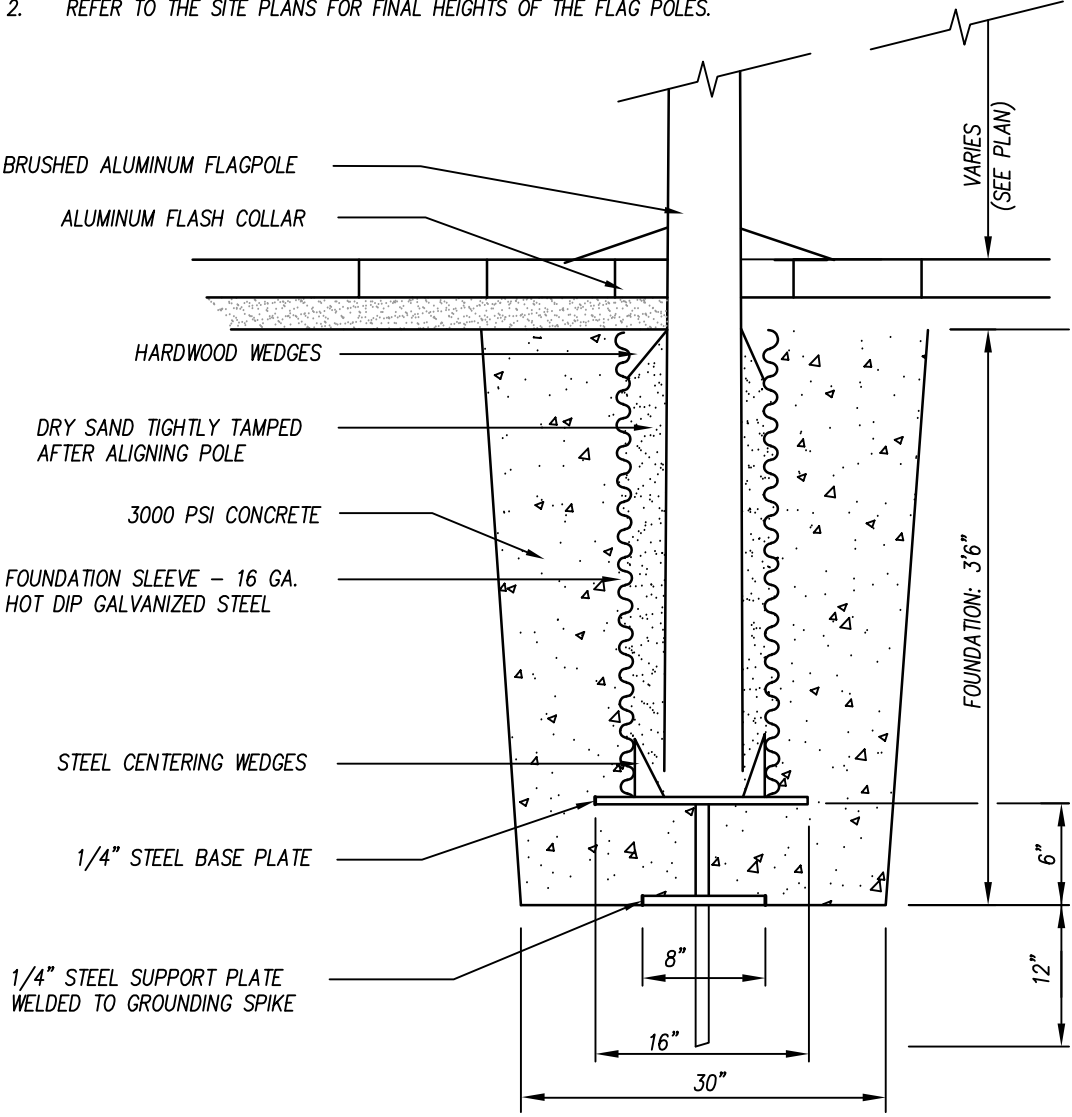


- NOTES:
1. ALL CONCRETE SHALL BE OF NDOT TYPE AA PORTLAND CEMENT CONCRETE WITH A 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI (ASTM C39).
 2. CONTRACTION JOINTS SHALL BE PLACED PER SPECIFICATION 32.13.13.
 3. ISOLATION JOINTS SHALL BE PLACED WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 4. JOINTS IN CURB & GUTTER SHALL BE ALIGNED WITH JOINTS IN ADJOINING CONCRETE PAVEMENT.
 4. JOINTING PLAN DEVELOPED BY CONTRACTOR IN ACCORDANCE WITH ACI-330R-08 SHALL BE APPROVED BY SITE DESIGN ENGINEER PRIOR TO POURING SLAB.



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
2. REFER TO THE SITE PLANS FOR FINAL HEIGHTS OF THE FLAG POLES.



HEAVY DUTY CONCRETE PAVEMENT (FIRE STATIONS)

N.T.S.

FLAG POLE BASE DETAIL

N.T.S.

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER.

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

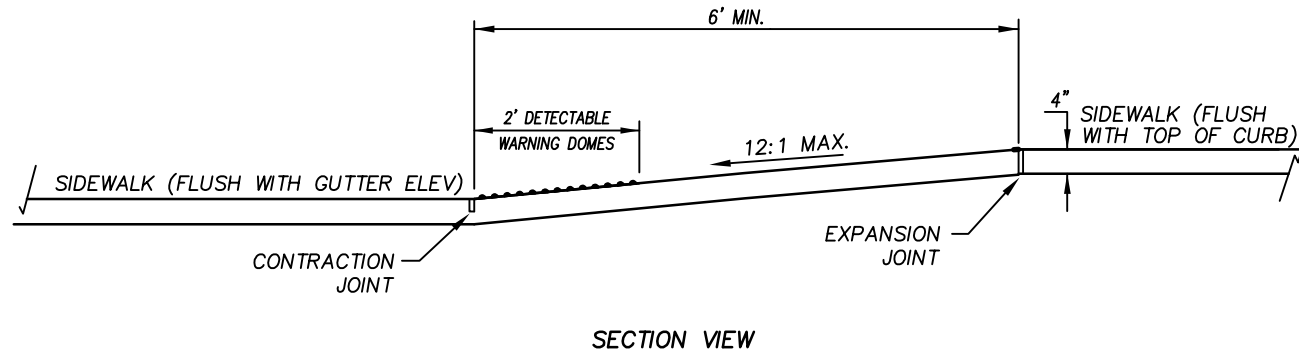
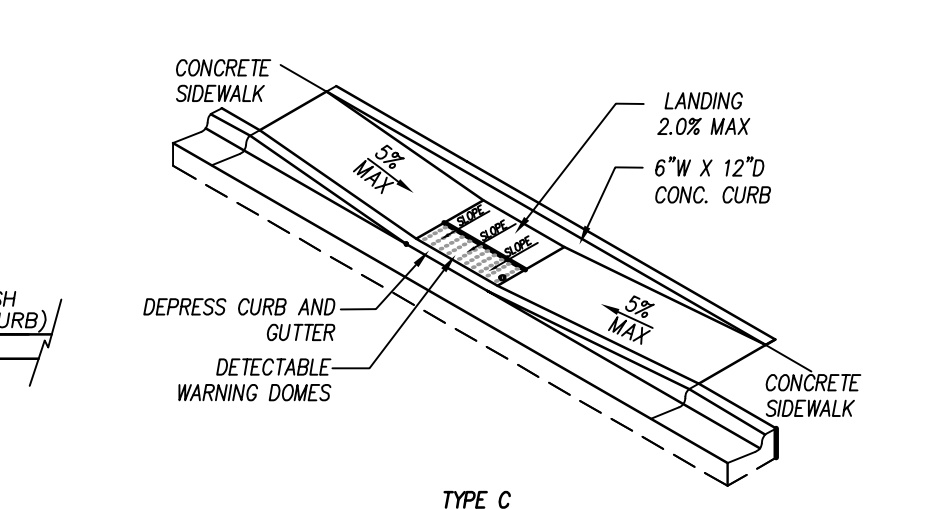
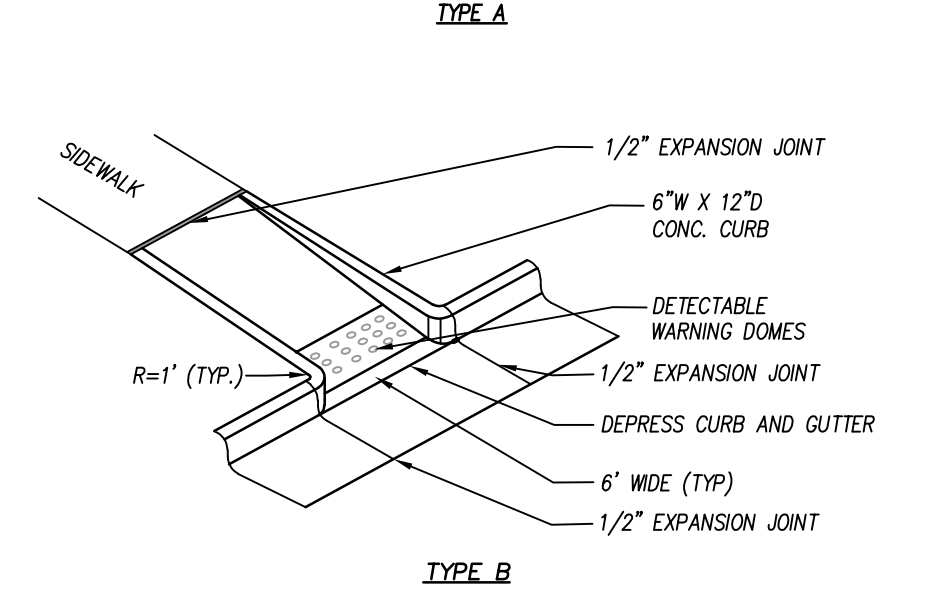
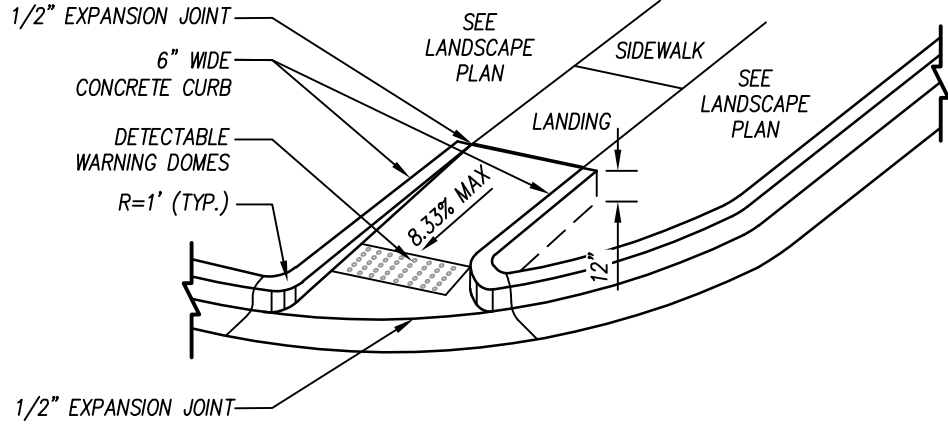
DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL INFORMATION.

DOMES SUBMITTAL SHALL BE SUBMITTED TO DESIGN TEAM PRIOR TO INSTALLATION. COLOR SHALL BE YELLOW UNLESS OTHERWISE NOTED.

| W | A | W+A+S* | X | B |
|----|------|--------|------|------|
| 5' | 0.0' | 5.8' | 5.8' | 5.0' |
| 6' | 0.0' | 6.8' | 6.8' | 6.0' |
| 7' | 0.0' | 7.8' | 7.3' | 6.5' |
| 8' | 0.0' | 8.8' | 7.3' | 6.5' |
| 5' | 2.0' | 7.8' | 7.8' | 5.0' |
| 5' | 2.5' | 8.3' | 8.1' | 4.8' |
| 5' | 3.0' | 8.8' | 8.3' | 4.4' |
| 5' | 3.5' | 9.3' | 8.4' | 4.1' |
| 5' | 4.0' | 9.8' | 8.6' | 3.8' |
| 6' | 4.5' | 10.3' | 8.7' | 3.4' |
| 5' | 5.0' | 10.8' | 8.9' | 3.1' |

$B = X - (A + S)$
 $B =$ DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
* BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPE 0.04.



ACCESSIBLE CURB RAMPS

N.T.S.

NOTES:

RAMPS DEVELOPED IN ACCORDANCE WITH AMERICANS WITH DISABILITIES ACT (ADA)

THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.

NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET. SEE GRADING FOR ADDITIONAL INFORMATION.

NO RAMPS OR SIDEWALK SHALL BE LESS THAN 48" WIDE. REFER TO STAKING SHEETS FOR ALL SIDEWALK AND RAMP WIDTHS.

ALL CONCRETE SHALL BE 4,000 PSI @ 28 DAYS.

CURB RAMPS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.

EXPANSION JOINTS SHALL BE INSTALLED FULL DEPTH WHEN EVER IT ABUTS EXISTING OR CURB AND GUTTER.

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP OR TRANSITION TO STREET.

ALL RAMPS SHALL HAVE A 4' MIN. LANDING WITH A MAX SLOPE OF 2% WERE PEDESTRIANS PERFORM TURNING. ENSURE TO PITCH TOWARDS GUTTER.

DETECTABLE DOMES SHALL BE INSTALL AT FULL WIDTH OF RAMP.

ALL DIMENSIONS ARE FROM FACE OF CURB

ACCESSIBLE STALL WIDTH AND LENGTH AS SHOWN. NO ACCESSIBLE STALL SHALL BE LESS THAN 8' WIDE.

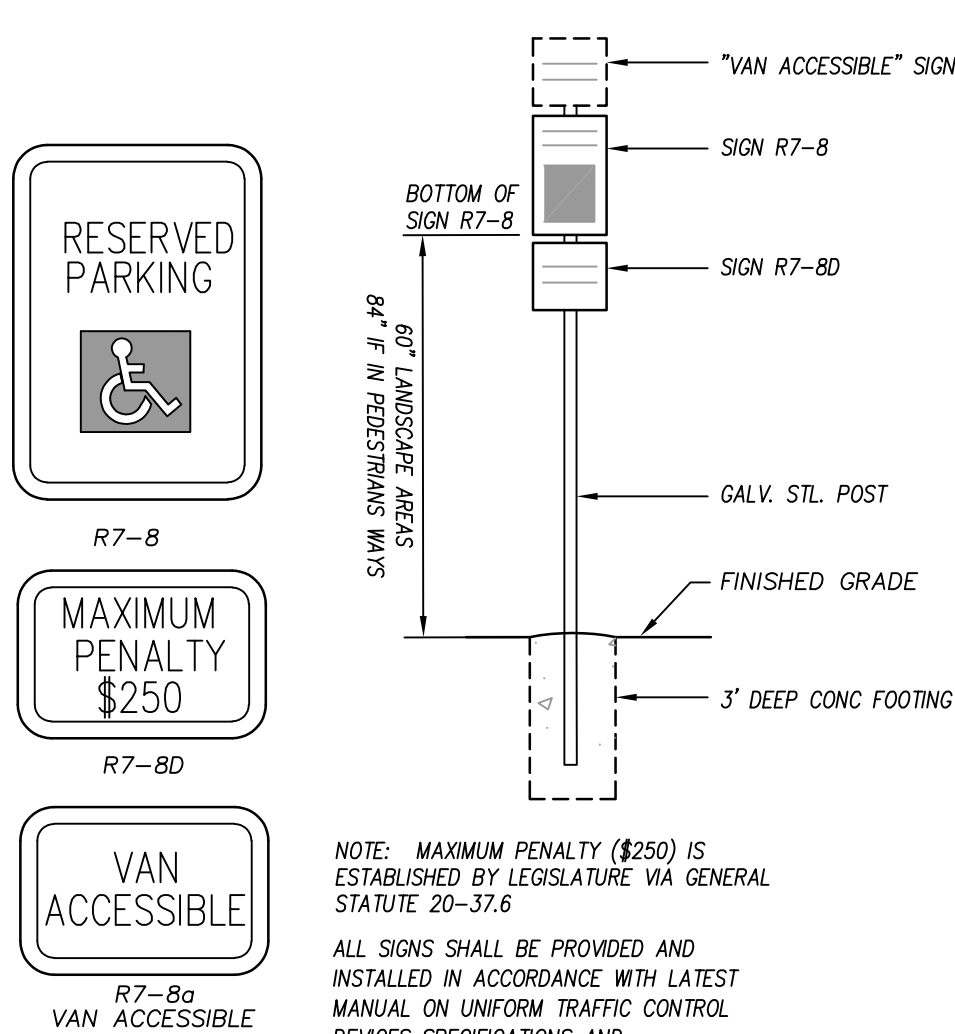
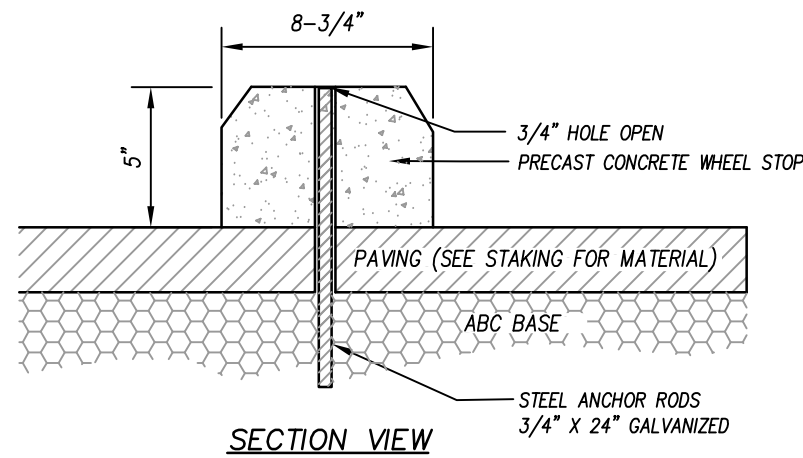
ALL VAN ACCESSIBLE PARKING STALLS ARE AS SHOWN. NO ACCESSIBLE VAN STALL SHALL BE LESS THAN 8' WIDE WITH AISLE BEING NOT LESS THAN 8' WIDE.

CONTRACTOR IS RESPONSIBLE FOR MARKING OUT ACCESSIBLE STALL TO ENSURE THEY MEET CODE. ANY DEFICIENCIES SHALL BE REPAIR AT THE CONTRACTORS EXPENSE.

NO RAMP SHALL EXCEED 8.33% (12:1) SLOPE.

CROSS SLOPE SHALL BE MAX 2%.

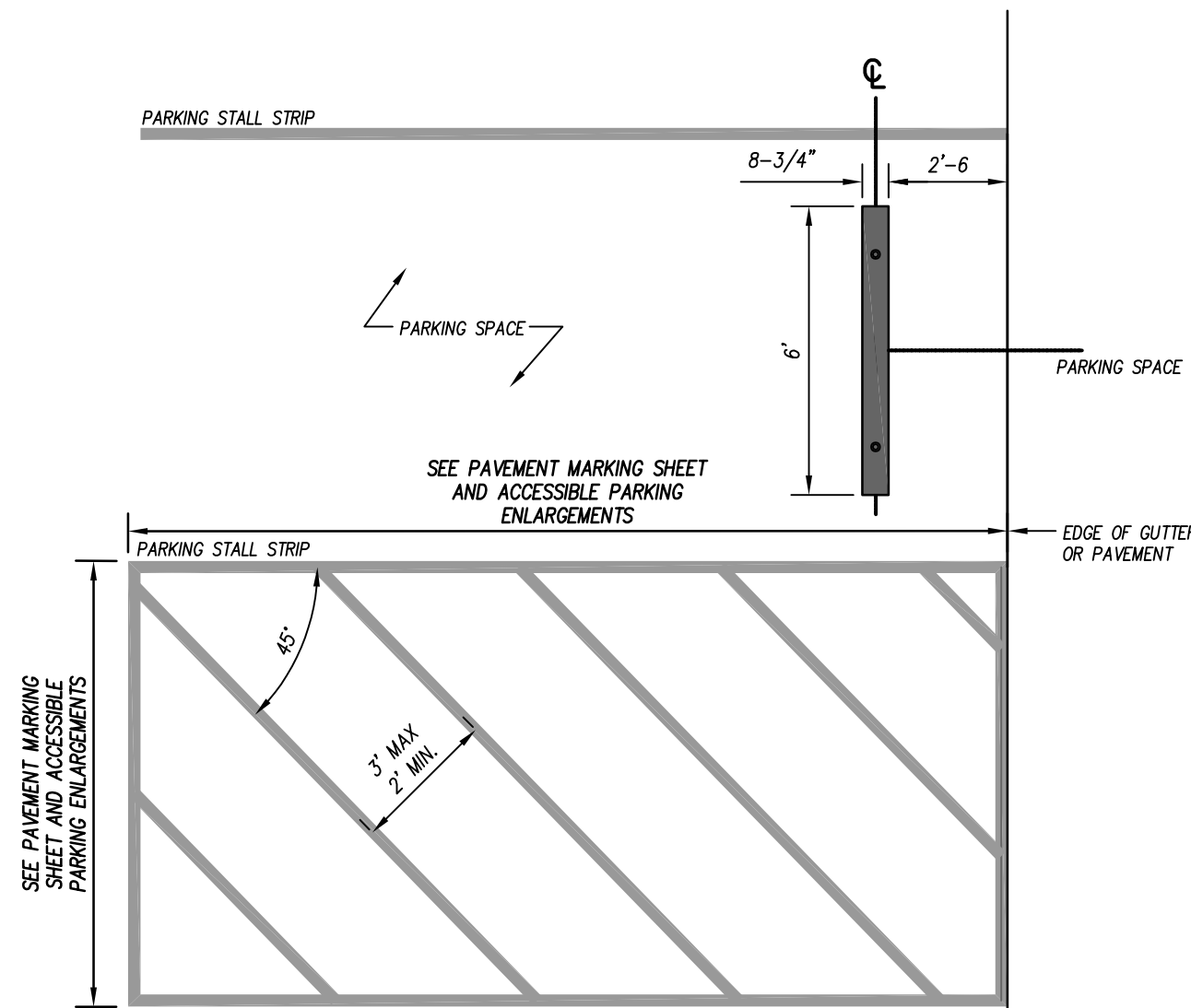
PARKING STALL AND ACCESSIBLE AISLE SHALL BE WHITE ON ASPHALT SURFACES AND BLUE ON CRETE SURFACES



NOTE: MAXIMUM PENALTY (\$250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

ACCESSIBLE PARKING SIGNAGE



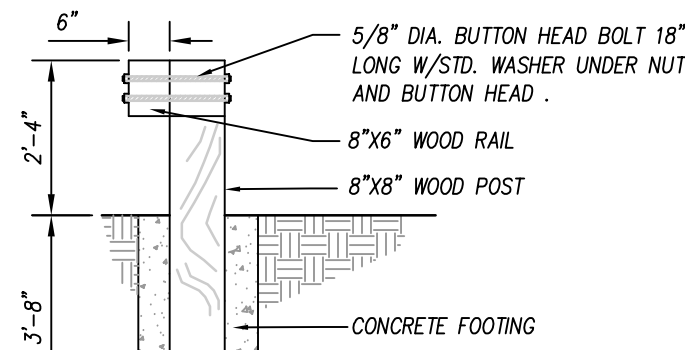
ACCESSIBLE STALL STRIPING AND 90° PARKING SPACE PLAN VIEW

N.T.S.

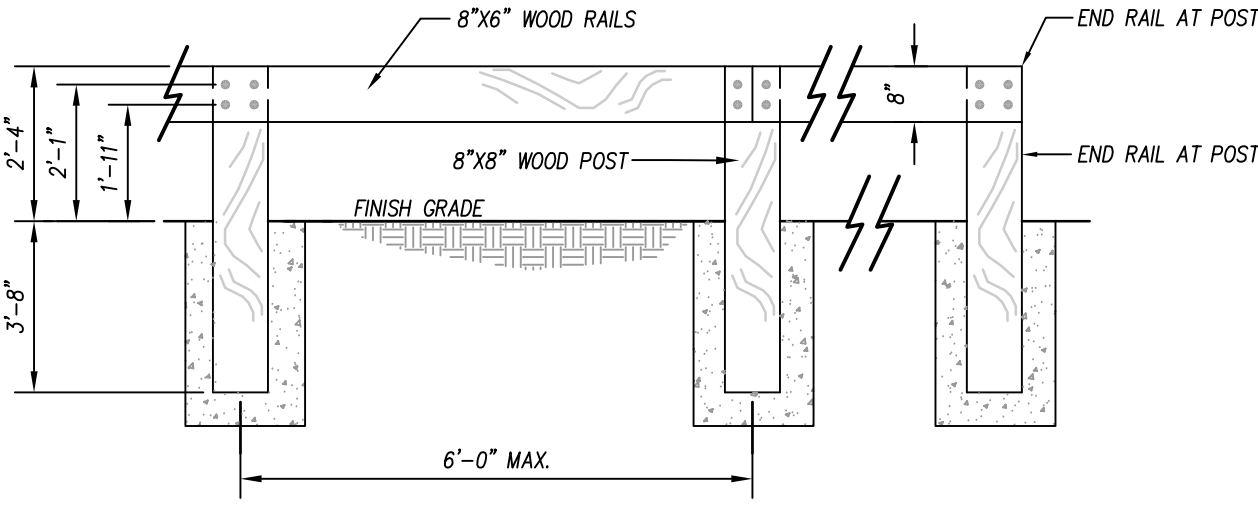
NOTES:

1. ALL WOOD SHALL BE NO.2 CCA PRESSURE TREATED YELLOW PINE

2. ALL HARDWARE SHALL BE GALVANIZED, PER ASTM A153.



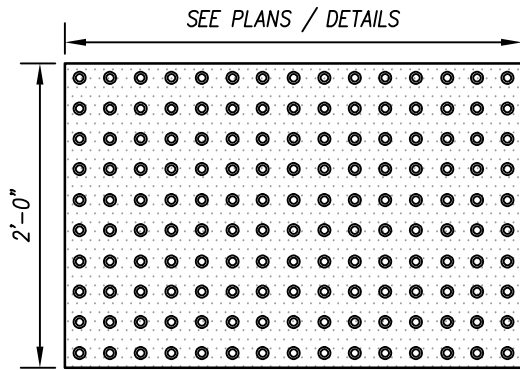
SIDE ELEVATION



FRONT ELEVATION

TRAFFIC GUARDRAIL

N.T.S.

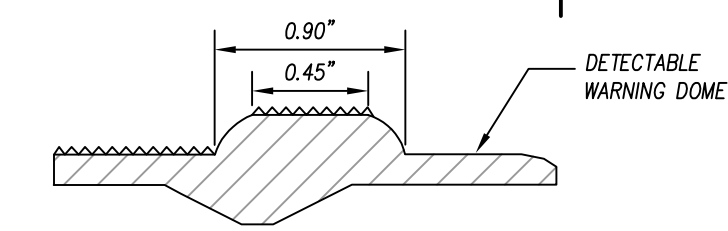
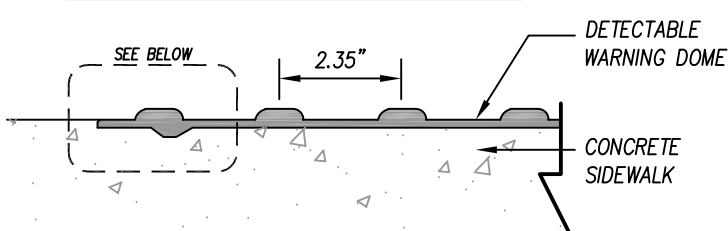


NOTES:

DOMES SHALL BE YELLOW OR PER LOCAL CODE.

WARNING DOMES MUST BE FULLY COMPLIANT WITH THE AMERICAN WITH DISABILITIES ACT (ADA).

INSTALLATION PER MANUFACTURE.



DETECTABLE WARNING DOMES

N.T.S.

BIKE RACK:

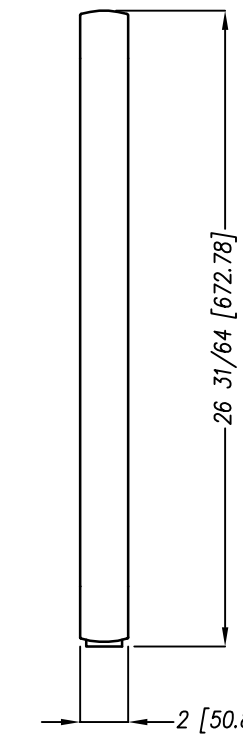
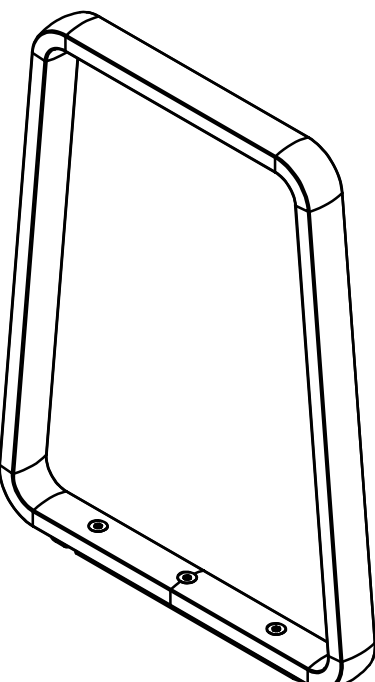
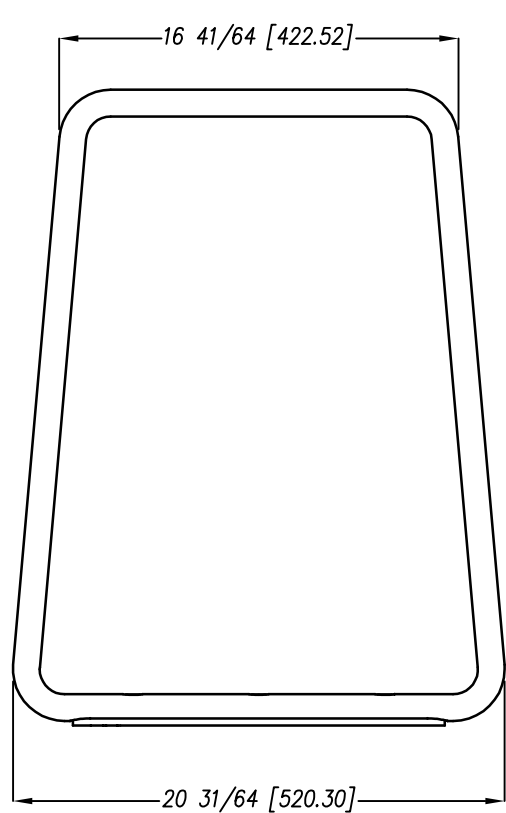
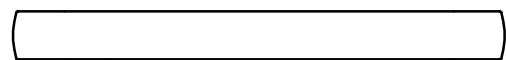
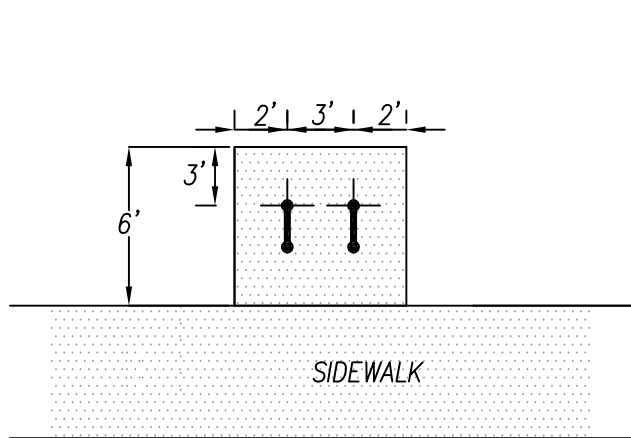
1. MAGLIN ICONIC BIKE RACK 2300 SERIES OR APPROVED EQUAL.

2. COLOR: BLACK.

3. INSTALLATION: SURFACE MOUNT AS PER MANUFACTURER'S RECOMMENDATION.

4. QUANTITIES SHOWN ON SITE PLAN REPRESENT NUMBER OF HOOPS.

5. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



BIKE RACK DETAIL

N.T.S.



ZEBULON PUBLIC SAFETY STATION

1005 N ARENDELL AVENUE
ZEBULON, NC

CONSTRUCTION DRAWINGS

STAKING DETAILS

DATE 02-21-2025

CLH PROJECT NO 22-154

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1005 N ARENDELL AVENUE
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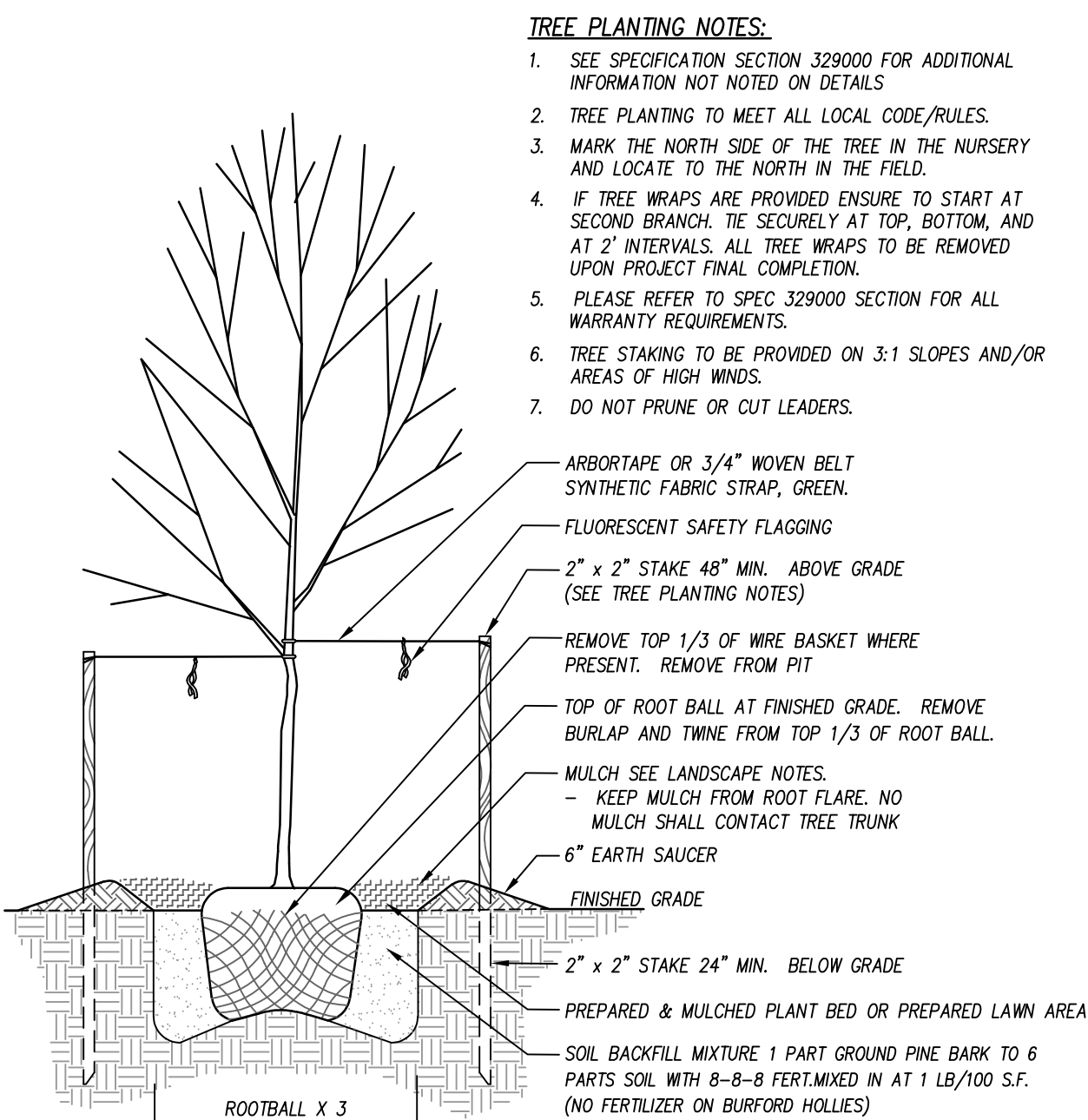
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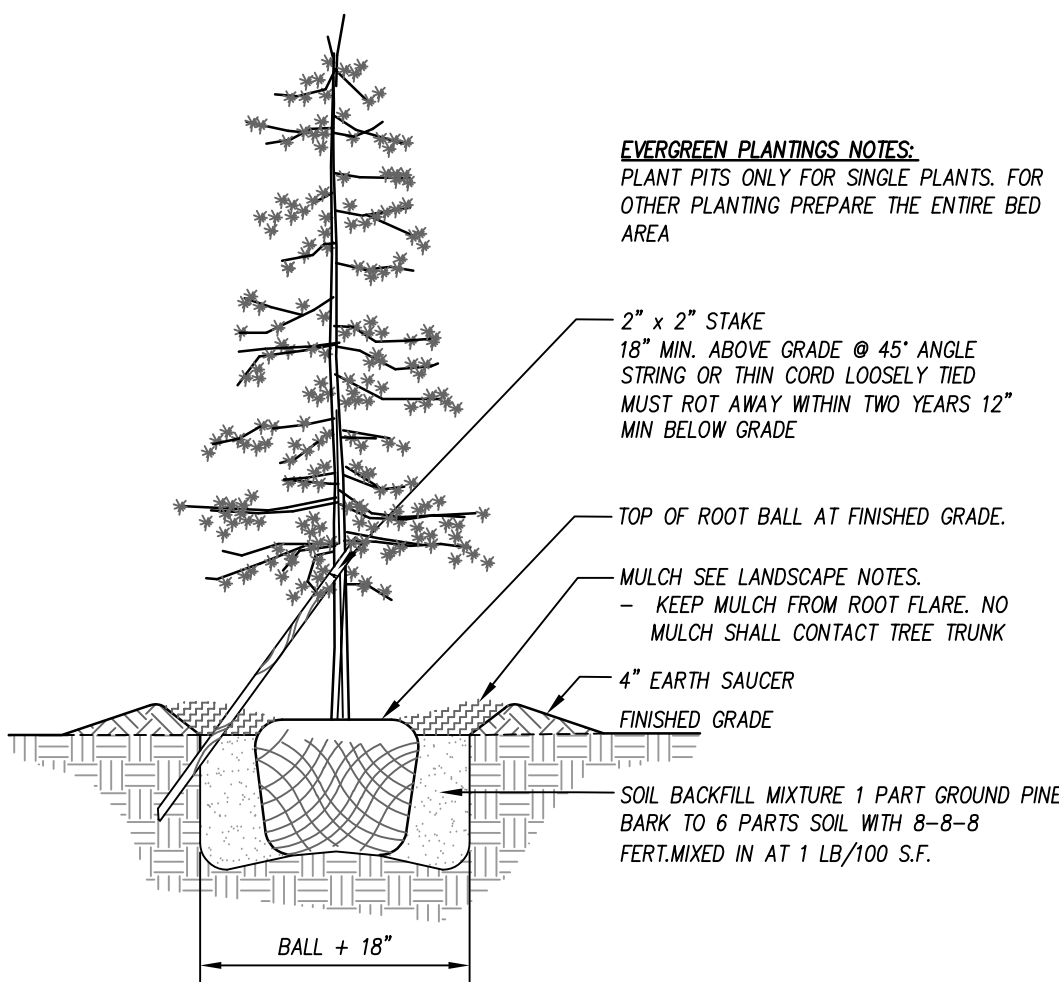
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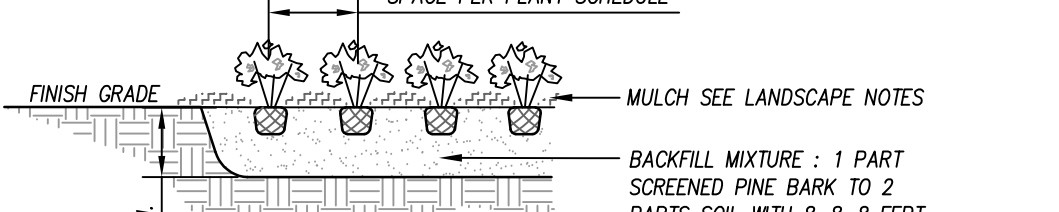
C903



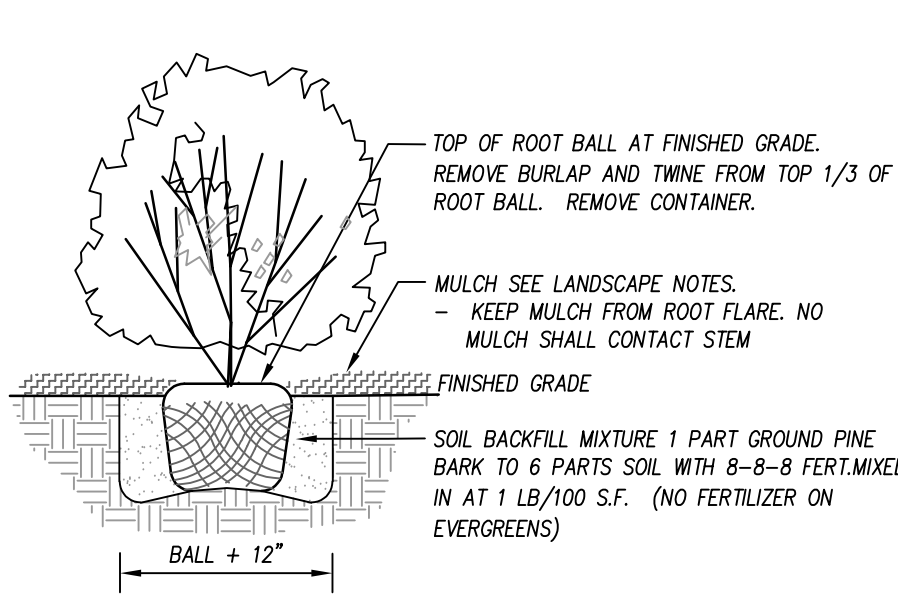
TREE PLANTING



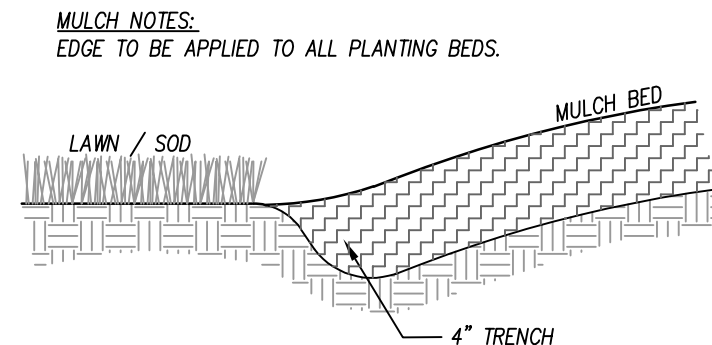
EVERGREEN PLANTING



GROUNDCOVER PLANTING



SHRUB PLANTING

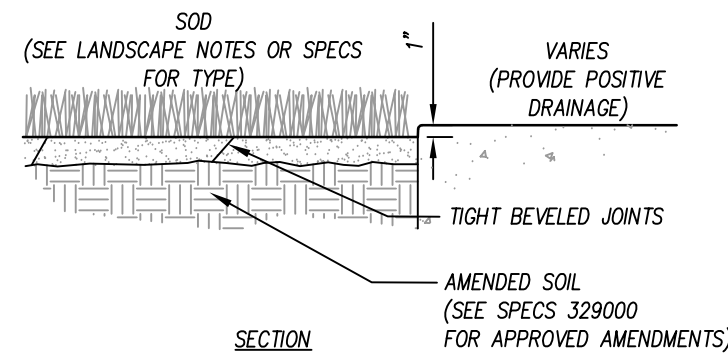


PLANTING BED EDGE

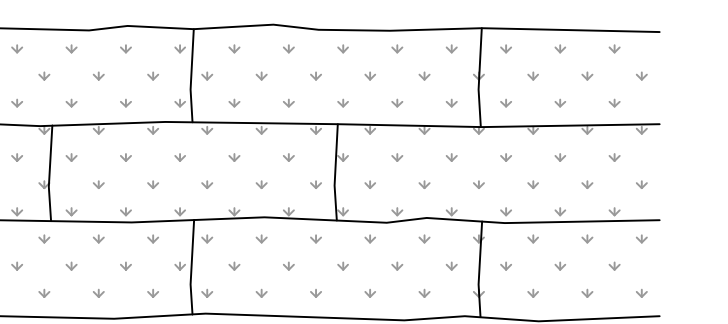
SOD MAINTENANCE NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR SOD MAINTENANCE UNTIL FINAL COMPLETION.
- PLEASE REFER TO SPEC 329000 FOR ALL SOD INSTALLATION REQUIREMENT, WARRANTIES AND MAINTENANCE TIL FINAL COMPLETION
- CONTRACTOR MUST MEET 95% SOD ESTABLISHMENT FOR FINAL COMPLETION. REFER TO SPEC 329000 SECTION 1.9. & 1.12 FOR ALL APPLICABLE REQUIREMENTS.
- SOD INSTALLED INSTALLED OUTSIDE GROWING SEASON WILL NEED TO MEET THE FOLLOWING SECTION 329000 SECTIONS 1.9 & 1.12
- PLEASE REFER TO SPEC 329000 SECTION 1.10 FOR ALL WARRANTY REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR REGULAR MOWING AND FOR FURNISHING AND APPLYING ADEQUATE WATER TO THE INSTALLED SOD UNTIL PROJECT FINAL COMPLETION BUT NO LESS THAN 4-WEEKS FOLLOWING SOD INSTALLATION
- WATERING SHALL BE MONITORED TO ENSURE PROPER RATES ARE APPLIED. OVER-WATERING SHALL BE AVOIDED.
- DEAD OR DYING SOD SHALL BE REPLACED PRIOR TO OWNER'S ACCEPTANCE.

REMOVE NETTING PRIOR TO INSTALLATION

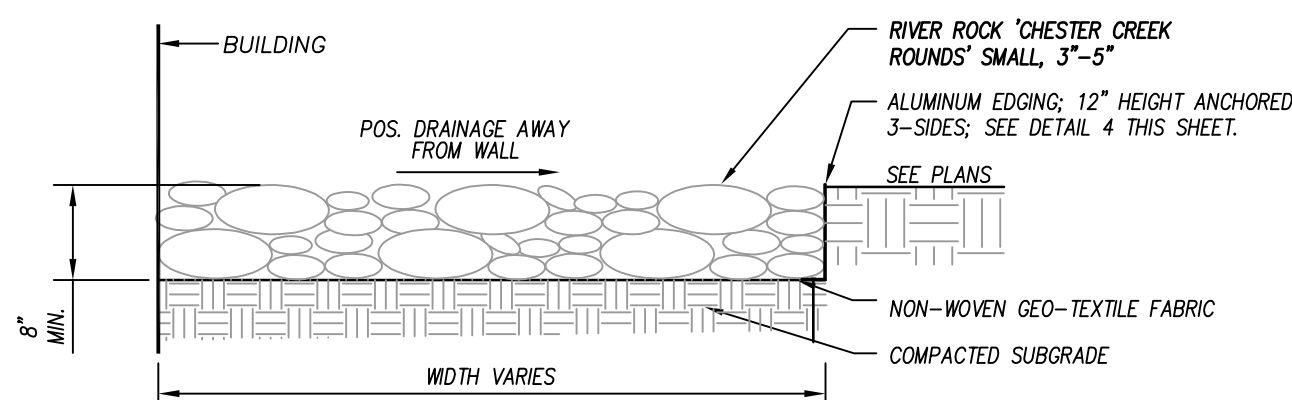


SECTION

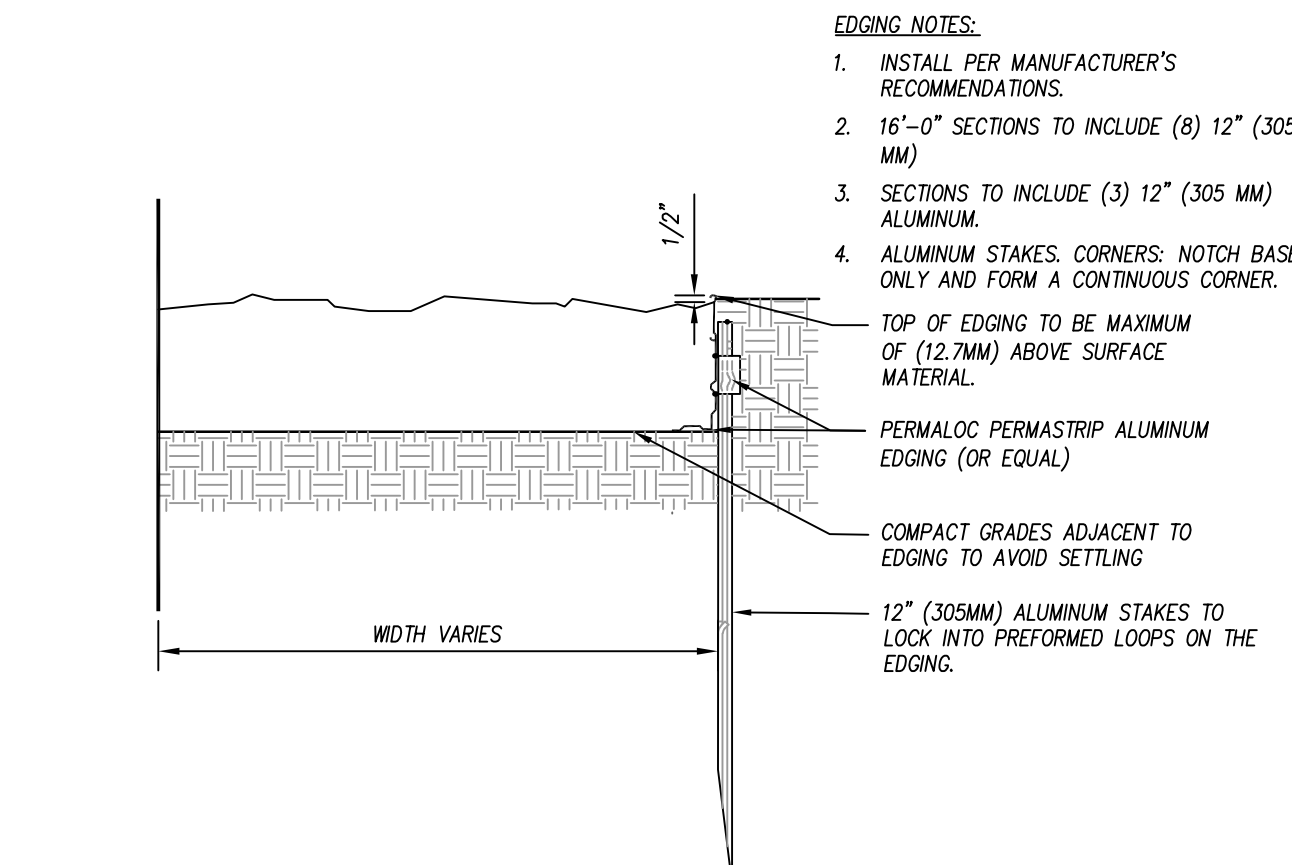


PLAN

SOD INSTALLATION



DECORATIVE STONE BAND AT BUILDING



ALUMINUM EDGING

EDGING NOTES:

- INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - 16"-0" SECTIONS TO INCLUDE (8) 12" (305 MM)
 - SECTIONS TO INCLUDE (3) 12" (305 MM) ALUMINUM.
 - ALUMINUM STAKES: CORNERS: NOTCH BASE ONLY AND FORM A CONTINUOUS CORNER.
- TOP OF EDGING TO BE MAXIMUM OF (12.7MM) ABOVE SURFACE MATERIAL.
- PERMALOC PERMASTROP ALUMINUM EDGING (OR EQUAL)
- COMPACT GRADES ADJACENT TO EDGING TO AVOID SETTLING
- 12" (305MM) ALUMINUM STAKES TO LOCK INTO PREFORMED LOOPS ON THE EDGING.

PLANTING / LANDSCAPING DETAIL

N.T.S.

LANDSCAPE GENERAL NOTES

- LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
- VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
- ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSESMEN AND THE WRITTEN SPECIFICATIONS.
- ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4-1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED.
- ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3-IN OF DYED BROWN DESIGNER (PALETTEZED) MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS. BUFFER PLANTINGS MAY USE TRIPLE SHREDDED HARDWOOD. CONFIRM WITH LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO INSTALLATION.
- APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
- ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
- DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS. (i.e. HOLES WHICH, WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS). SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
- CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
 - REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION.
 - REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
 - ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
 - ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
- THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
- LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN/SOD AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. REFER TO SPECIFICATIONS FOR ADDITIONAL WATERING INFORMATION.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDING/SOD AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE RE-GRADED AND RE-SEED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
- SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
- LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING. IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
- GENERAL LAWN AREAS SHALL BE SEEDDED WITH RIVERA OR SUNSTAR BERMUDA SEED. SOD AREAS SHALL BE TIF-TOP BERMUDA. 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- SEE PLANTING PLAN FOR LIMITS.
- ALL 3:1 SLOPES OR GREATER SHALL RECEIVE EROSION CONTROL MATTING. REFER TO PLANTING PLANS FOR STABILIZATION REQUIREMENTS.
- ALL FOUNDATION SHRUBS TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. ALL SHADE TREES SHALL BE A MINIMUM DISTANCE OF 15-FT FROM BUILDING ROOF EDGE TO CENTER OF TREE. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
- INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

PERMANENT SEEDING SCHEDULE FOR NATURALIZED AREAS

| NC PIEDMONT POLLINATOR MIX | | |
|--|---|--|
| NATURALIZED SEED MIX (NOT TO BE MOWED) | | |
| DATE | TYPE | PLANTING RATE |
| MAR 1-JUNE 1 (OR AS RECOMMENDED BY MANUFACTURER) | NC PIEDMONT POLLINATOR MEADOW - ERNAX CUSTOM | 15-20 LBS/ACRE OR PER MANUFACTURER'S REQUIREMENTS FOR 90% COVERAGE |
| | 47% SCHIZACHYRIUM SCOPARIUM 'CAMPER' | 'CAMPER' LITTLE BLUESTEM |
| | 21% PANICUM ANCEPS, GA ECOTYPE | BEEKED PANICGRASS |
| | 14% ELIMIS WIGANDUS, AR ECOTYPE | VERNONIA MILVIFLORA |
| | 3% RUBROCKIA HIRTA COASTAL PLAIN, NC ECOTYPE | BLACKEYED SUSAN |
| | 3% COREOPSIS LANCOLATA | LANCERLEAF COREOPSIS |
| | 2.5% CHAMAERISTA FASCICULATA, FL ECOTYPE | PARTRIDGE PEA |
| | 2% ASCLEPIAS TUBEROSA | BUTTERFLY MILKWEED |
| | 0.8% ERAGROSTIS HIRTA, VA ECOTYPE | BROTHER LONGGRASS |
| | 1.5% CHAMAERISTA NOTIANS, NC ECOTYPE | SENSITIVE PEA |
| | 1% EUPATORIUM COELESTINUM, VA ECOTYPE | MISTFLOWER |
| | 1% MONARDA PUNCTATA, NC ECOTYPE | COASTAL PLAIN BEEBALM |
| | 0.5% RUBROCKIA FULGIDA VAR. FULGIDA, VA ECOTYPE | ORANGE CONEFLOWER |
| | 0.5% BAPTISIA ALBESCENS, NC ECOTYPE | SPIKED WILD INDIGO |
| | 0.5% ASTER SPECTABILIS, NC ECOTYPE | SHOWY ASTER |
| | 0.3% SOLIDAGO NEMORALIS, VA ECOTYPE | GRAY GOLDENROD |
| | 0.1% AMORPHA HERBACEA, NC ECOTYPE | CLUSTERSPEKE FALSE INDIGO |

JUNE 1-FEB 28 SEE TEMPORARY SEEDING SCHEDULE
SOURCE: ERNST SEED CO. (1-800-873-3321) OR EQUAL

TEMPORARY SEEDING SCHEDULE (JUNE 1ST TO FEBRUARY 28TH)

| DATE | TYPE | SEEDING RATE |
|-----------------|--|------------------------------------|
| APR 15 - APR 15 | 3-WAY TALL FESCUE BLEND AND CEREAL RYE (GRAIN) | 10 LBS PER 1,000/SF 35 LBS/ACRE |
| APR 15 - AUG 15 | 3-WAY TALL FESCUE BLEND AND GERMAN WHEAT *** (OR SUDAGRASS) (SMALL-STEMMED VAR.) *** | 10 LBS PER 1,000/SF 25 LBS/ACRE |

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

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

LIME AND FERTILIZATION SCHEDULE:

- APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY A MINIMUM 3,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND A MINIMUM 500 LB/ACRE 10-10-10 FERTILIZER, AS NEEDED TO ESTABLISH 95% COVERAGE (AS DETERMINED ON A PER SQUARE YARD BASIS) PRIOR TO SUBSTANTIAL COMPLETION.
- CONTRACTOR TO SUBMIT A COPY OF ALL SOIL REPORTS TO OWNER UPON RECEIPT.

SURFACE STABILIZATION REQUIREMENTS:

- DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
- FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 14 CALENDAR DAYS FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
- USE EXCELSIOR MATTING OR OTHER APPROVED CHANNEL LINING MATERIAL TO COVER THE BOTTOM OF CHANNELS.
- APPLY 4000 LB/ACRE (2 TONS LB/AC) GRAIN STRAW OVER SEEDDED AREAS AND ANCHOR STRAW CRIMPING WITH HAND OR MECHANICAL CRIMPER 8" MAX. SPACING, ASPHALT TACKING OR OTHER APPROVED METHOD. ASPHALT TACKING SHALL BE 400 GAL/ACRE (9 GAL/1000 SF).
- MULCH AND ANCHORING MATERIALS MUST NOT BE ALLOWED TO WASH DOWN SLOPES AND CLOG DRAINAGE DEVICES.
- SEE NCECO GROUND STABILIZATION REQUIREMENTS FOR ADDITIONAL INFORMATION.

PERMANENT SEEDING SCHEDULE

| DATE | TYPE | SEEDING RATE |
|---------------------|----------------------------------|----------------|
| APR 15 - JULY 15 ** | HULLED SUNSTAR OR RIVERA BERMUDA | 150 LBS/ACRE * |
| JULY 15 - AUG 15 | SUNSTAR OR RIVERA BERMUDA | 150 LBS/ACRE * |

* OR AS REQUIRED TO ACHIEVE 95% COVERAGE AS DETERMINED ON A PER SQUARE YARD BASIS PRIOR TO SUBSTANTIAL COMPLETION.

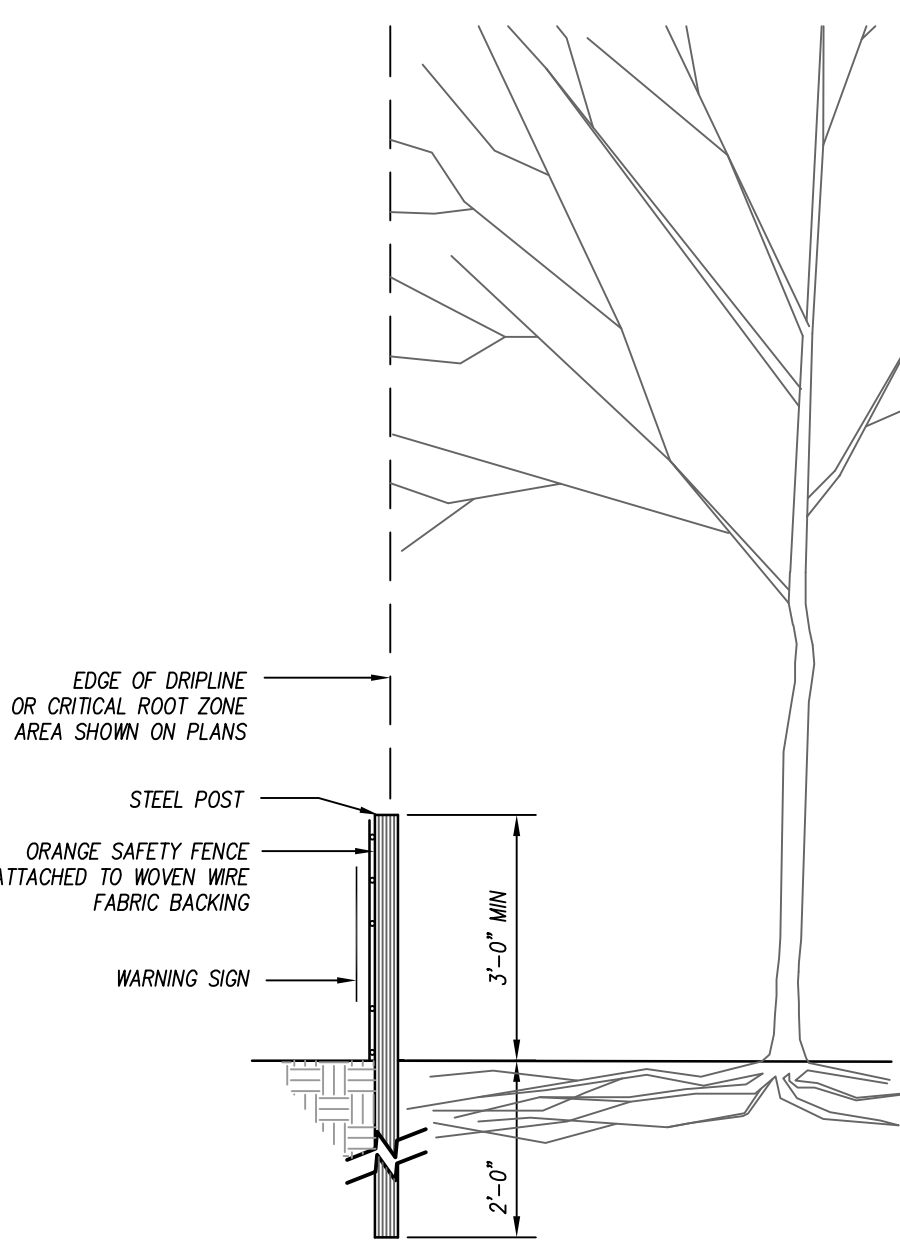
** WHEN SEEDING MUST TAKE PLACE OUT-OF-SEASON FOR PERMANENT GRASS, APPROPRIATE TEMPORARY SEEDING SHALL BE DONE AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMANENT SEEDING AS SPECIFIED IN SEASON AT NO ADDITIONAL COST TO OWNER.

LAWN MAINTENANCE NOTES:

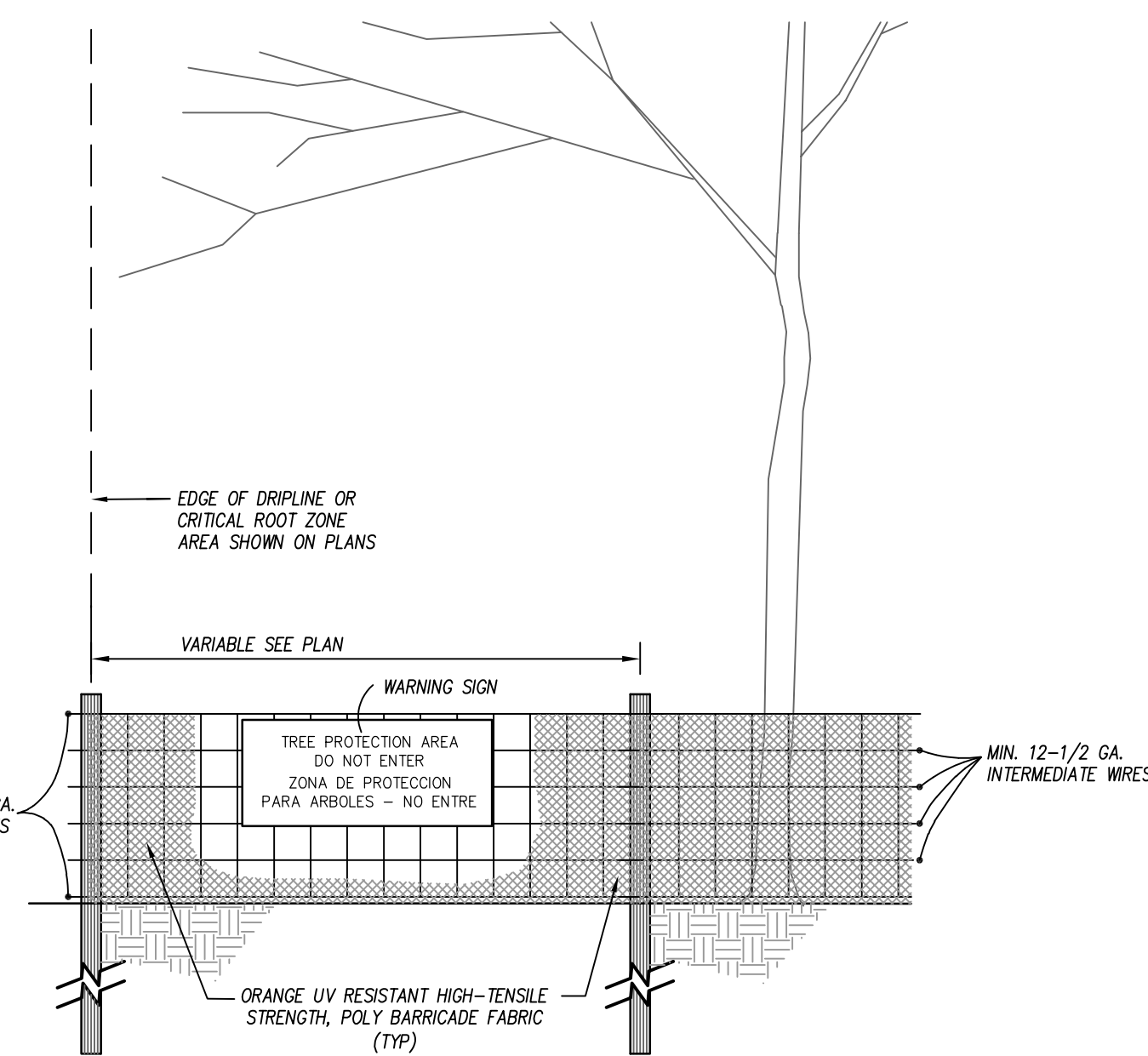
- SEE SPEC. SECTION 329000 FOR LAWN MAINTENANCE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LAWN MAINTENANCE UNTIL FINAL COMPLETION.
- LAWN MUST BE AT 95% COVERAGE AT SUBSTANTIAL COMPLETION REVIEW TO BE ACCEPTED.
- IF NOT AT 95% SUBSTANTIAL COMPLETION WILL BE DELAYED UNTIL THE FOLLOWING GROWING SEASON.
- DO NOT ALLOW NURSE CROP TO GROW OVER 12" IN HEIGHT BEFORE MOWING, OTHERWISE THE PERMANENT SEEDING MAY BE SHADED OUT.

TURF, SOD AND SEEDBED PREPARATION:

- CHISEL ALL CUT GRADED OR COMPACTED AREAS TO A MINIMUM DEPTH OF 8".
- DISC ALL AREAS TO RECEIVE GRASS TO A MINIMUM OF 8 INCHES, MIX AND AMEND WITH 3 INCHES OF WELL SCREENED TOPSOIL. ON-SITE TOPSOIL MAY BE USED IN PLACE OF IMPORTED TOPSOIL, IF WELL-SCREENED AND DRY PRIOR TO APPLICATION IN ACCORDANCE WITH SPECIFICATION SECTION 329000.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND PHOSPHATE UNIFORMLY AS PER SPECIFICATIONS AND MIX WELL WITH SOIL.
- CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED TO A 6 INCHES DEPTH.
- SEED AT RATE SPECIFIED OR AS NEEDED TO ACHIEVE AND MAINTAIN A THICK HEALTHY GROUND COVERAGE.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH. BEGIN THOROUGH WATERING OF GRASSSED AREAS IMMEDIATELY UPON INSTALLATION. DO NOT ALLOW GRASSSED AREAS TO BECOME EXCESSIVELY DRY.
- INSPECT ALL SEEDDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS AS NEEDED.
- IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.



SIDE VIEW



FRONT VIEW

40" 2" LETTERS (TYP)

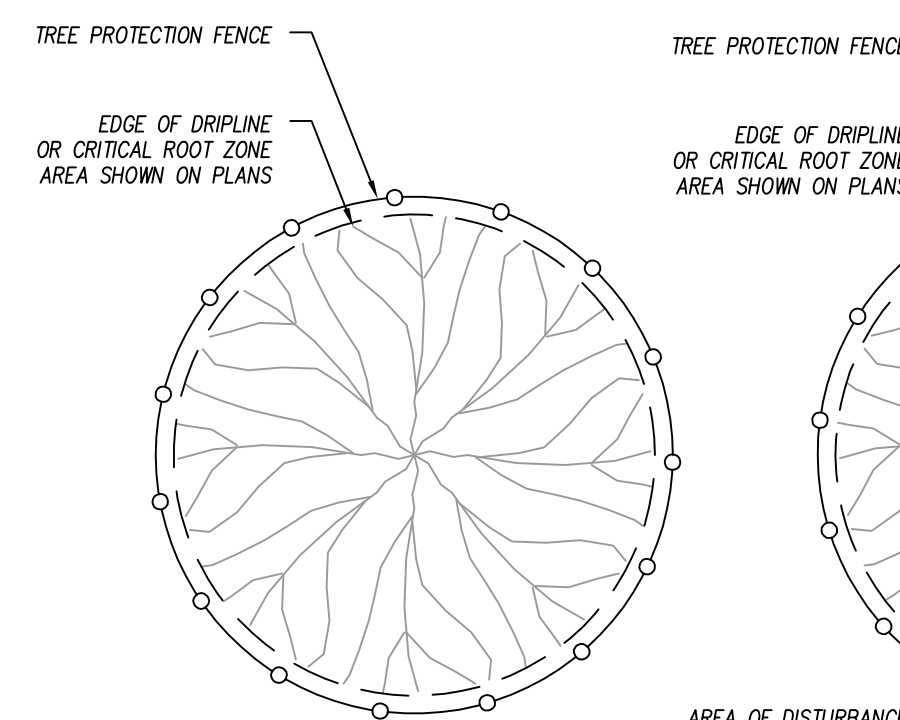
TREE PROTECTION AREA

DO NOT ENTER

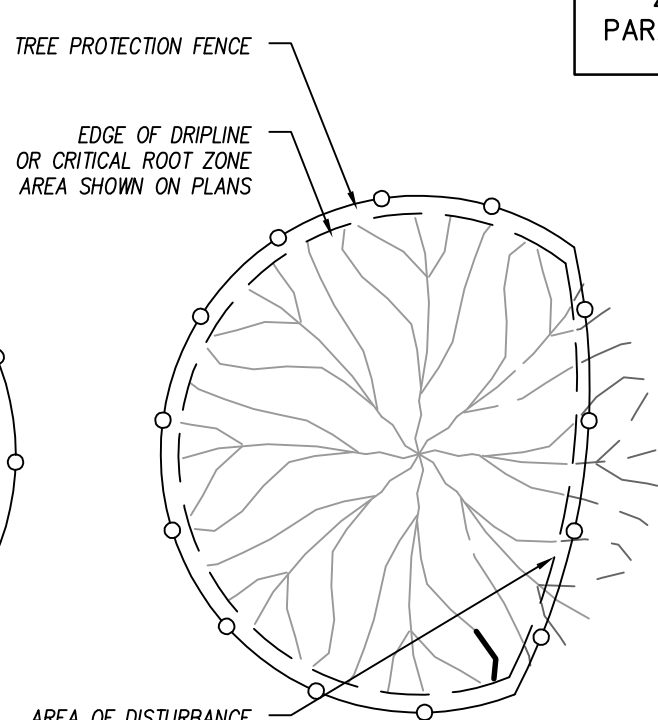
ZONA DE PROTECCION

PARA ARBOLES - NO ENTRE

WARNING SIGN DETAIL



PLAN VIEW



PLAN VIEW WITH DISTURBANCE

NOTES:

- INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
- LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
- FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
- MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.

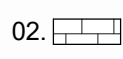
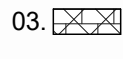
PLANTING / LANDSCAPING NOTES

N.T.S.

TREE PROTECTION FENCE

N.T.S.

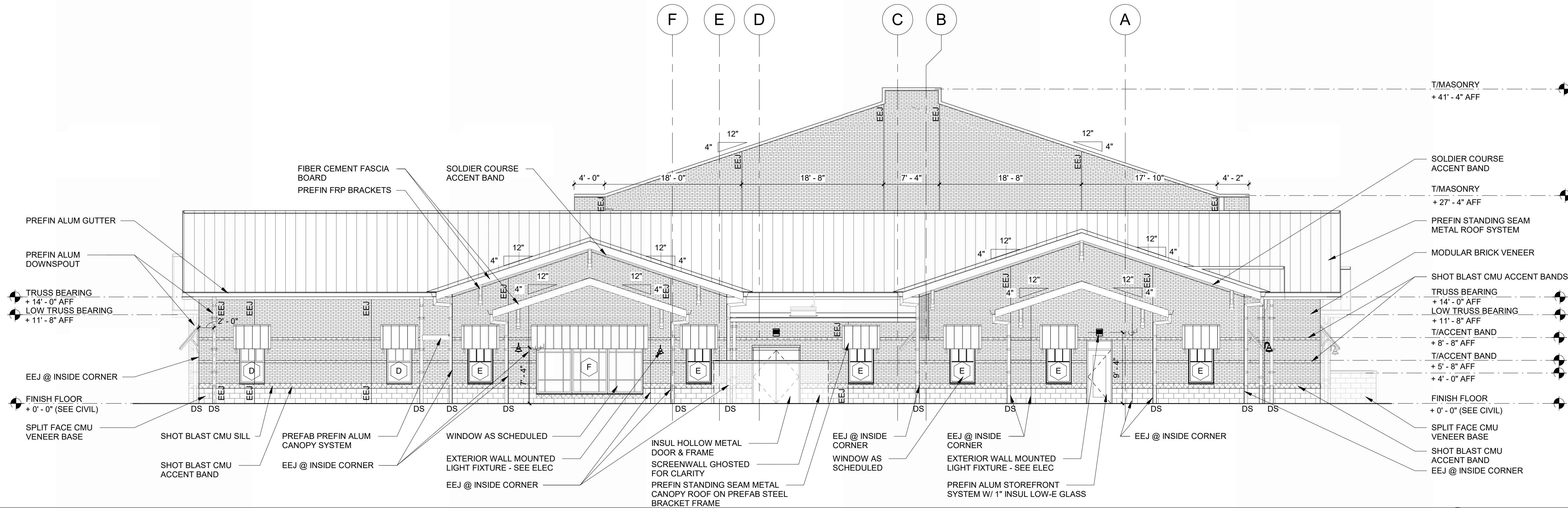
EXTERIOR COLOR SCHEDULE:

01. FIELD BRICK (BASIS OF DESIGN) COLOR SHALL MATCH PALMETTO BRICK COMPANY "MEDIUM RED WIRE CUT." OTHER ACCEPTABLE: GENERAL SHALE "RED WIRECUT", TAYLOR CLAY PRODUCTS "RED WIRECUT", OR APPROVED SUBSTITUTE SUBJECT TO COMPLIANCE WITH THE DRAWINGS & SPECIFICATIONS
02.  FIELD CMU VENEER (BASIS OF DESIGN) SHALL BE SPLIT FACE CMU #4201 BY 'OLD CASTLE'
03.  FIELD CMU VENEER (BASIS OF DESIGN) SHALL BE SHOT BLAST CMU #4309 BY 'OLD CASTLE'
04. STANDING SEAM METAL ROOF & AWNING COLOR SHALL BE 'DARK BRONZE' BY DMI
05. METAL ROOF ACCESSORIES, GUTTERS, DOWNSPOUT & DOWNSPOUT SHOES SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
06. FASCIA BOARDS SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
07. FLUSH METAL SOFFIT PANEL (NON-VENTED) SHALL BE CUSTOM COLOR (P-6) PPG#1001-7 "BLACK MAGIC"
08. STOREFRONT SYSTEMS, AND WINDOWS SHALL BE CUSTOM COLOR (P-7) PPG#1023-5 "STONE GRAY"
09. FRONT BI-FOLD DOORS SHALL BE CUSTOM COLOR (P-8) RAL #3003 "RUBY RED"
10. REAR SECTIONAL OVERHEAD DOORS TO BE SELECTED FROM MANUFACTURERS STANDARD RANGE OF COLORS
11. BOLLARDS TO BE PAINTED (P-6) PPG#1001-7 "BLACK MAGIC"
12. TRASH ENCLOSURE GATES SHALL BE (P-6) PPG#1001-7 "BLACK MAGIC"
13. ALL ARCHITECTURAL PRECAST TO BE WHITE
14. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE (P-6) PPG#1001-7 "BLACK MAGIC"
15. ALL EXTERIOR LOUVERS & VENT CAPS COLORS TO BE SELECTED FROM MANUFACTURERS STANDARD COLOR CHART
16. EXTERIOR METAL WALL PANELS TO BE CUSTOM COLOR (P-6) PPG#1001-7 "BLACK MAGIC"

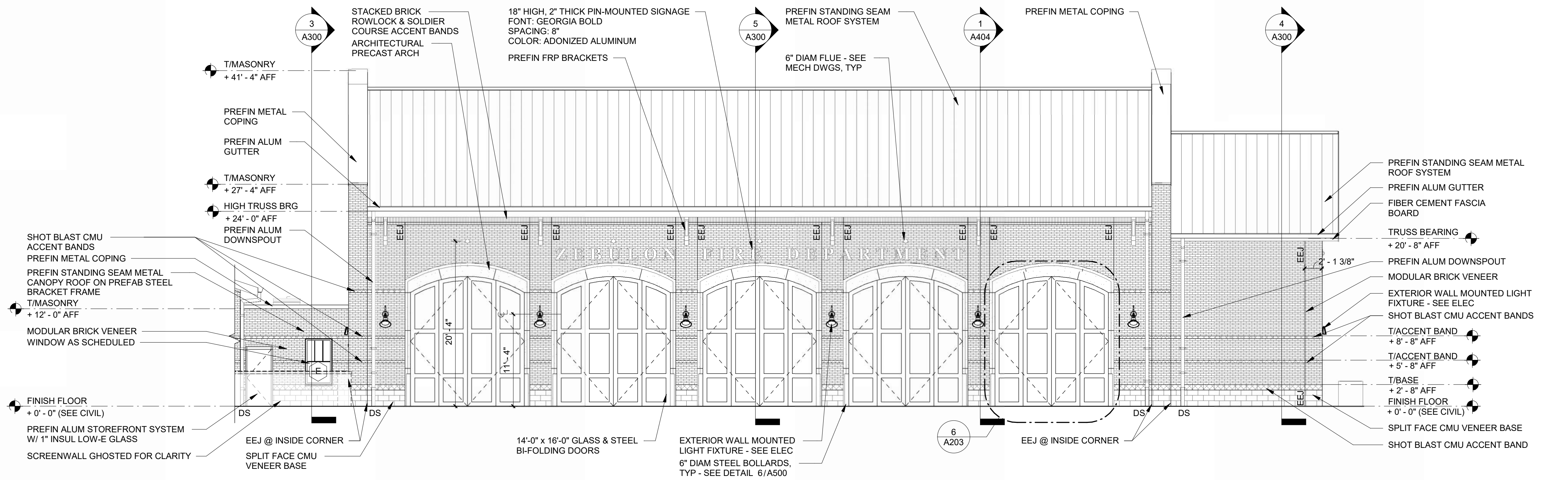
ELEVATION GENERAL NOTES

ELEVATION GENERAL NOTES

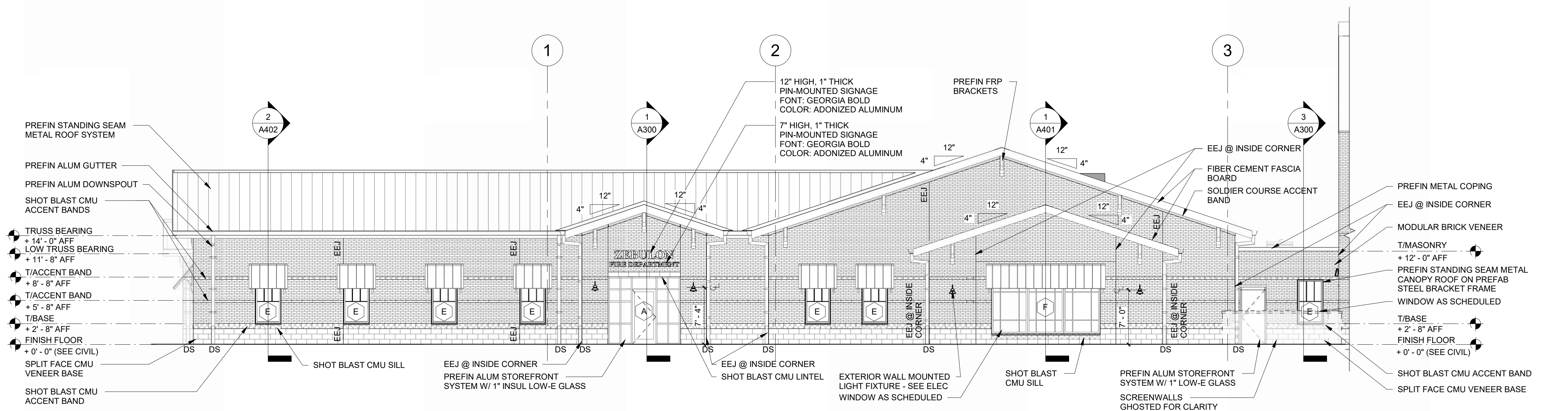
1. EXTERIOR EXPANSION JOINTS (EEJ)
2. MASON IS TO COMPLETELY FILL THE HEAD AND BED JOINTS OF ALL MASONRY
3. MASON IS TO KEEP ALL CAVITIES CLEAR OF MORTAR
4. PROVIDE SOLID BRICKS AT CORNERS. PROVIDE FINISHED FACE ON ALL VISIBLE SIDES
5. SEE SHEET SERIES A400 - WALL SECTIONS & DETAILS FOR ADDITIONAL INFORMATION AND DETAILS
6. ALL EXTERIOR WELDS TO BE GROUND SMOOTH PRIOR TO PAINTING
7. ALL EXTERIOR LOOSE LINTELS AT MASONRY OPENINGS TO BE GALVANIZED AND PAINTED TO MATCH BRICK - SEE STRUCT
8. VERIFY ALL MECHANICAL LOUVER SIZES WITH MECHANICAL DRAWINGS
9. PROVIDE CAULKING FOR ALL PRECAST JOINTS THAT ARE NOT IN COMPRESSION. PROVIDE MORTAR FOR ALL PRECAST JOINTS THAT ARE IN COMPRESSION.



SOUTHEAST ELEVATION 1/8" = 1'-0" 3



NORTHEAST PARTIAL ELEVATION 1/8" = 1'-0" 2



NORTHEAST PARTIAL ELEVATION 1/8" = 1'-0" 1



ZEBULON FIRE
DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597

EXTERIOR ELEVATIONS

DATE: 11.26.2024
PROJECT NO: 19073

REVISIONS
NO: DATE: DESCRIPTION:

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SHEET NUMBER

A200

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FIBER CEMENT FASCIA BOARD

PREFIN ALUM GUTTER

PREFIN ALUM DOWNSPOUT

TRUSS BEARING
+ 14'-0" AFF

T/ACCENT BAND
+ 8'-8" AFF

T/ACCENT BAND
+ 5'-8" AFF

T/BASE
+ 2'-8" AFF

FINISH FLOOR
0'-0" (SEE CIVIL)

SPLIT FACE CMU VENEER BASE

PREFIN STANDING SEAM METAL ROOF SYSTEM

MODULAR BRICK VENEER

SHOT BLAST CMU ACCENT BAND

WINDOW AS SCHEDULED

SHOT BLAST CMU SILL





ZEBULON FIRE DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597

DUMPSTER ENCLOSURE DETAILS

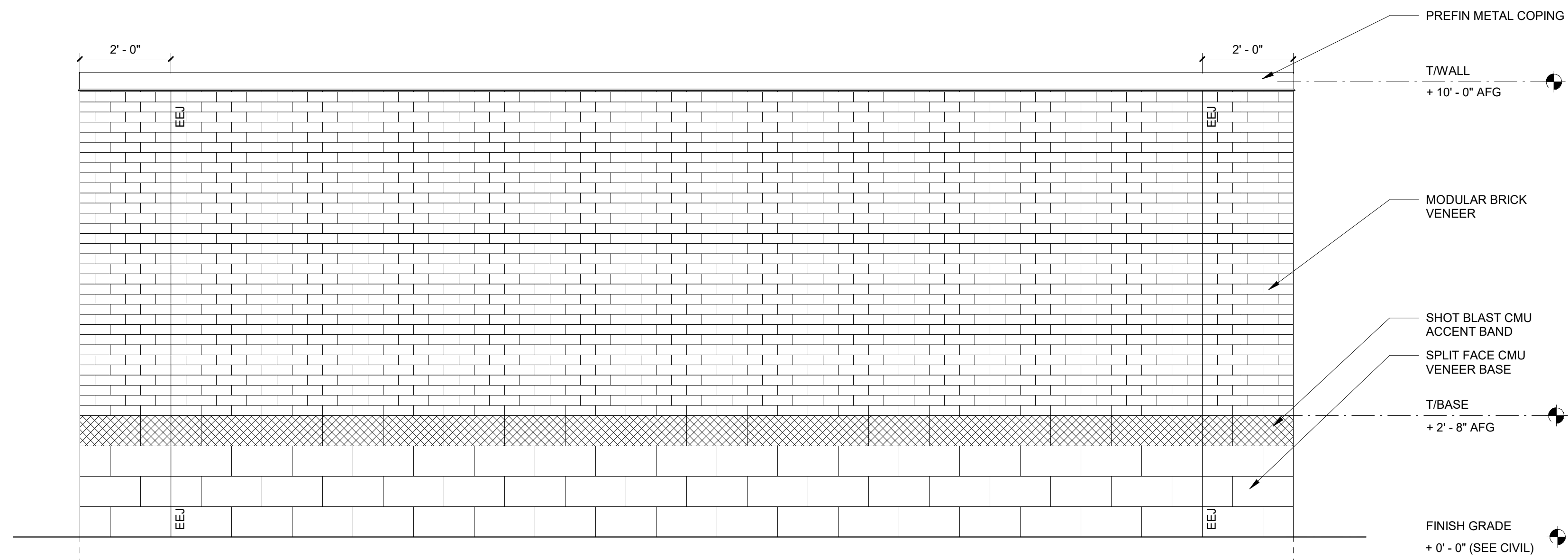
DATE: 11.26.2024
PROJECT NO: 19073

REVISIONS
NO: DATE: DESCRIPTION:

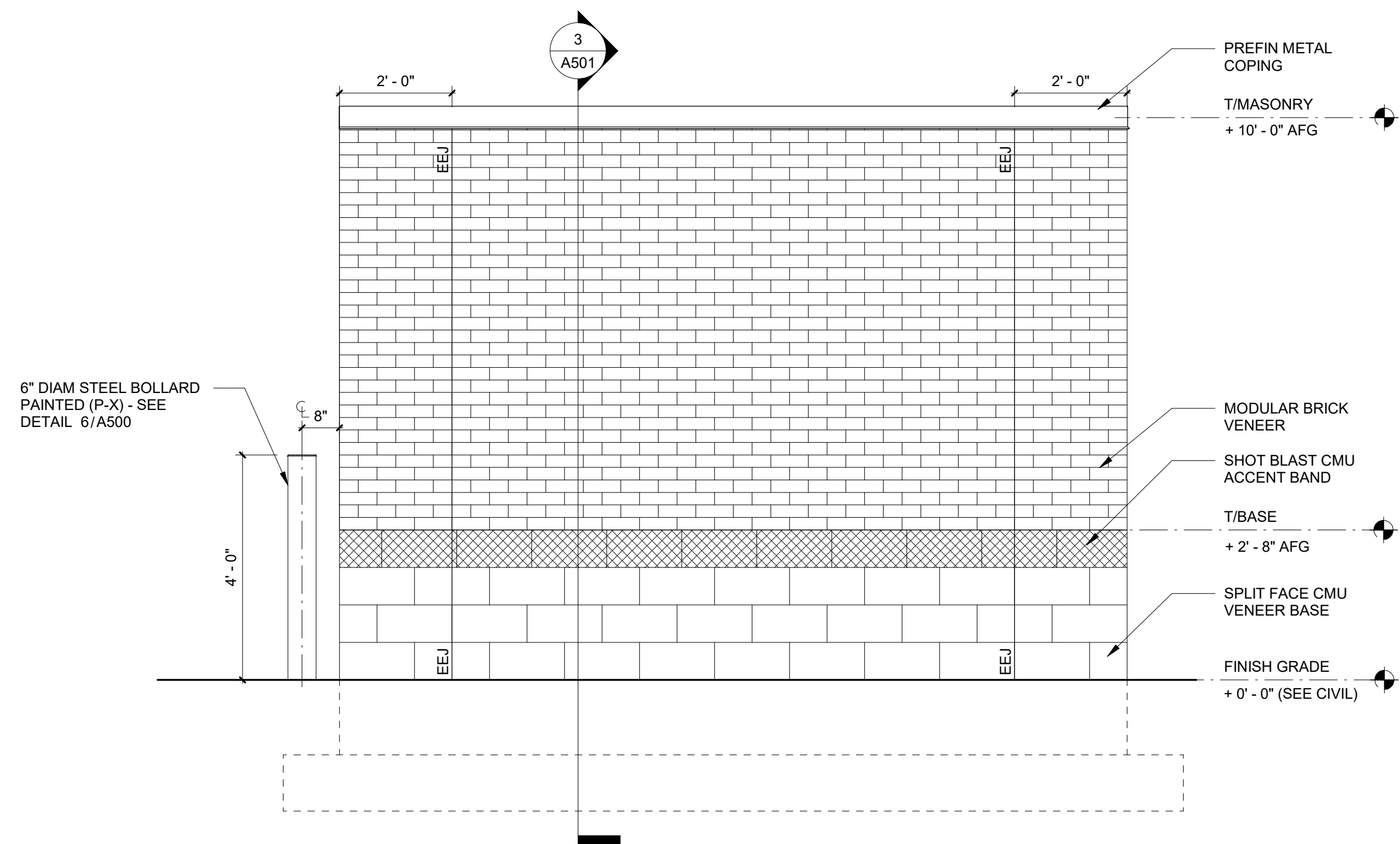
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SHEET NUMBER

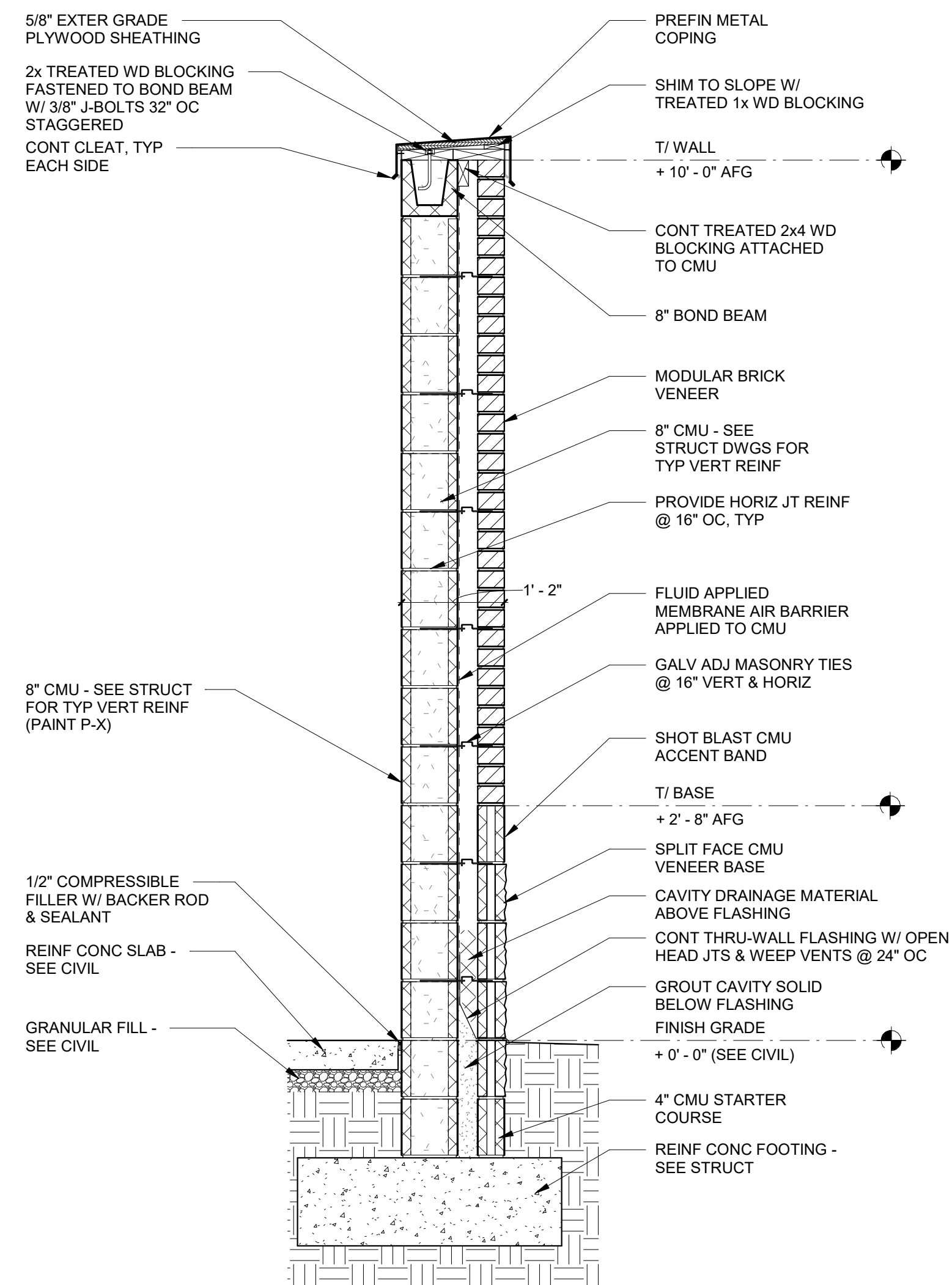
A501



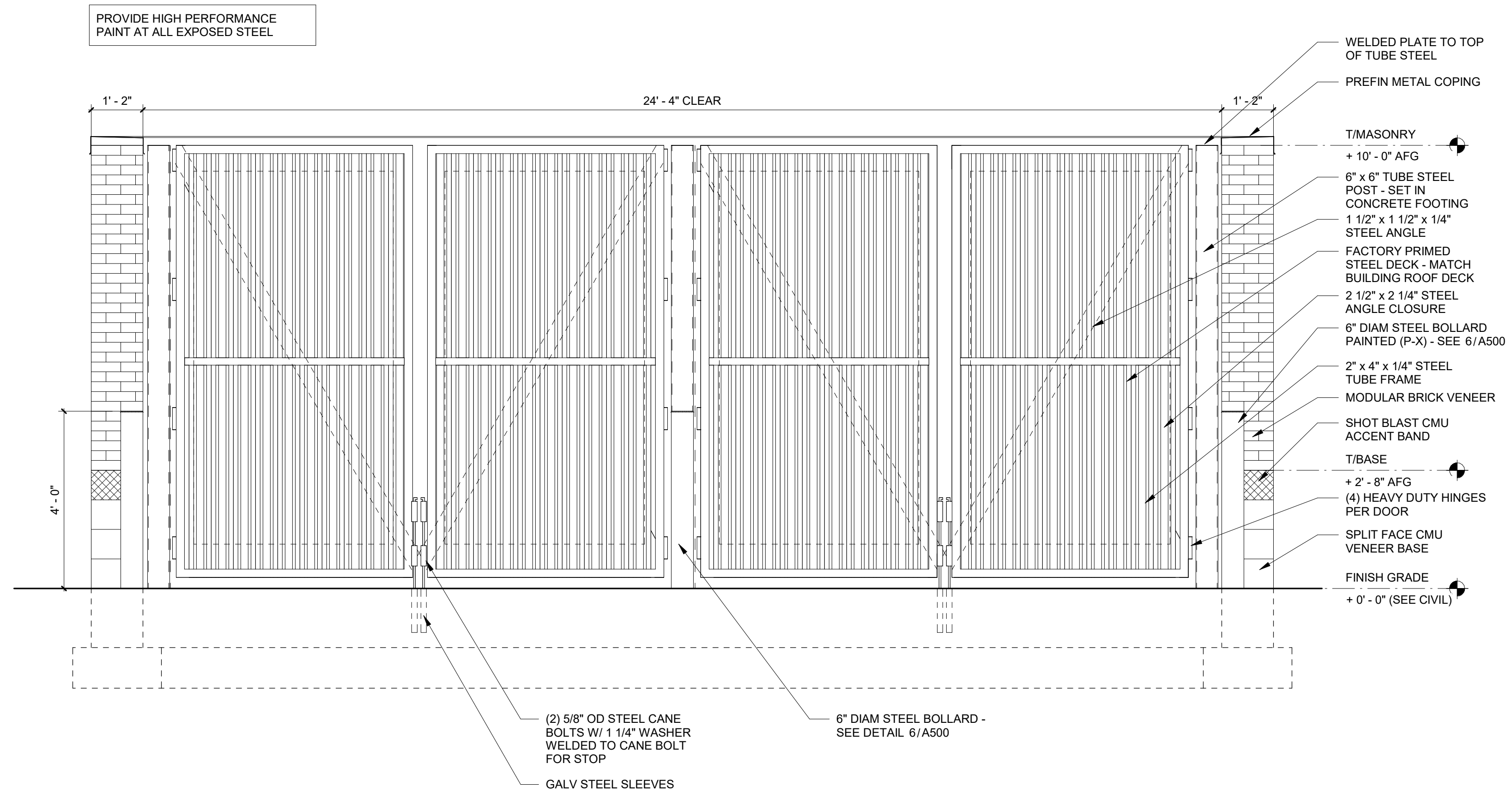
DUMPSTER ENCLOSURE REAR ELEVATION | 1/2" = 1'-0" 5



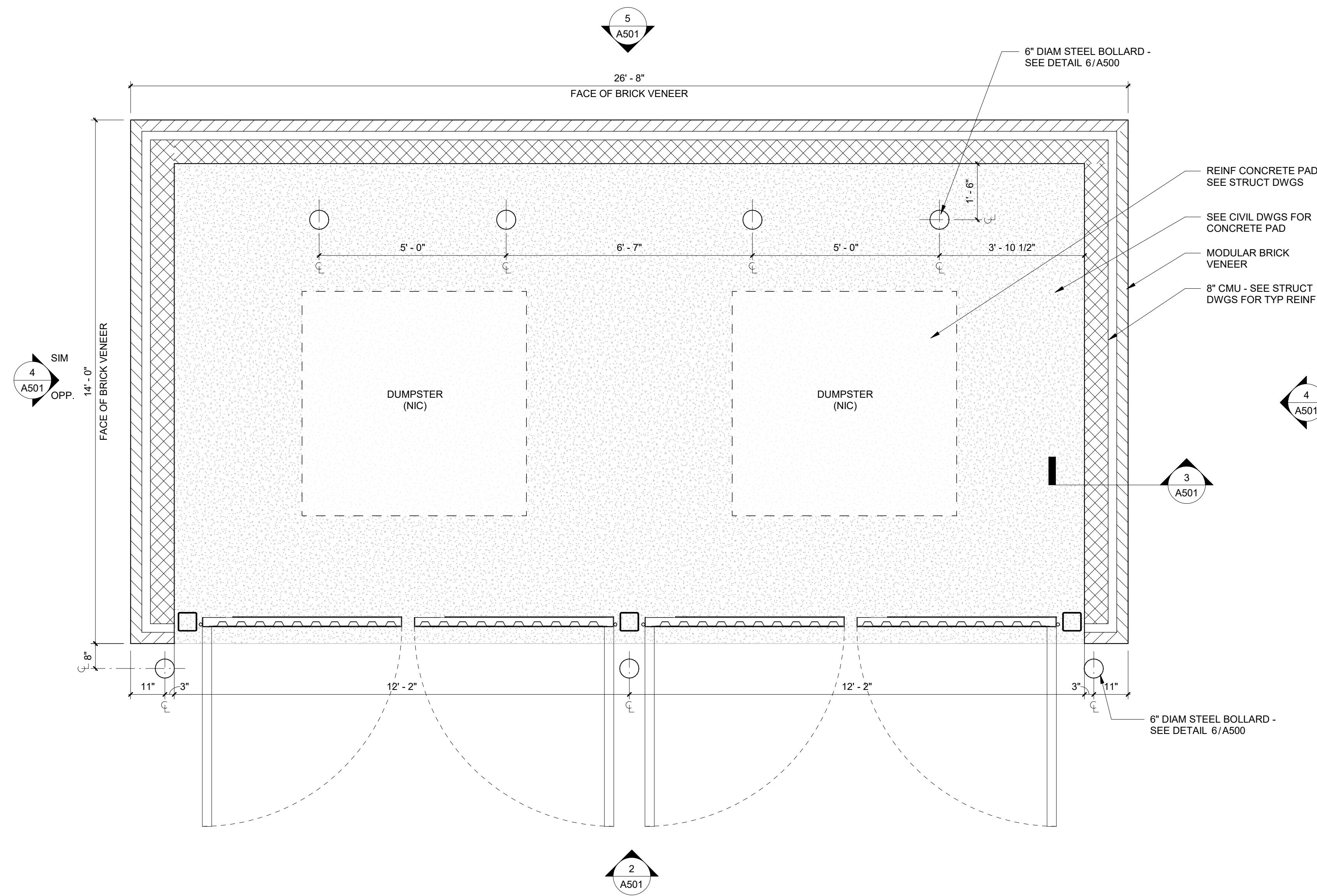
DUMPSTER ENCLOSURE SIDE ELEVATION | 1/2" = 1'-0" 4



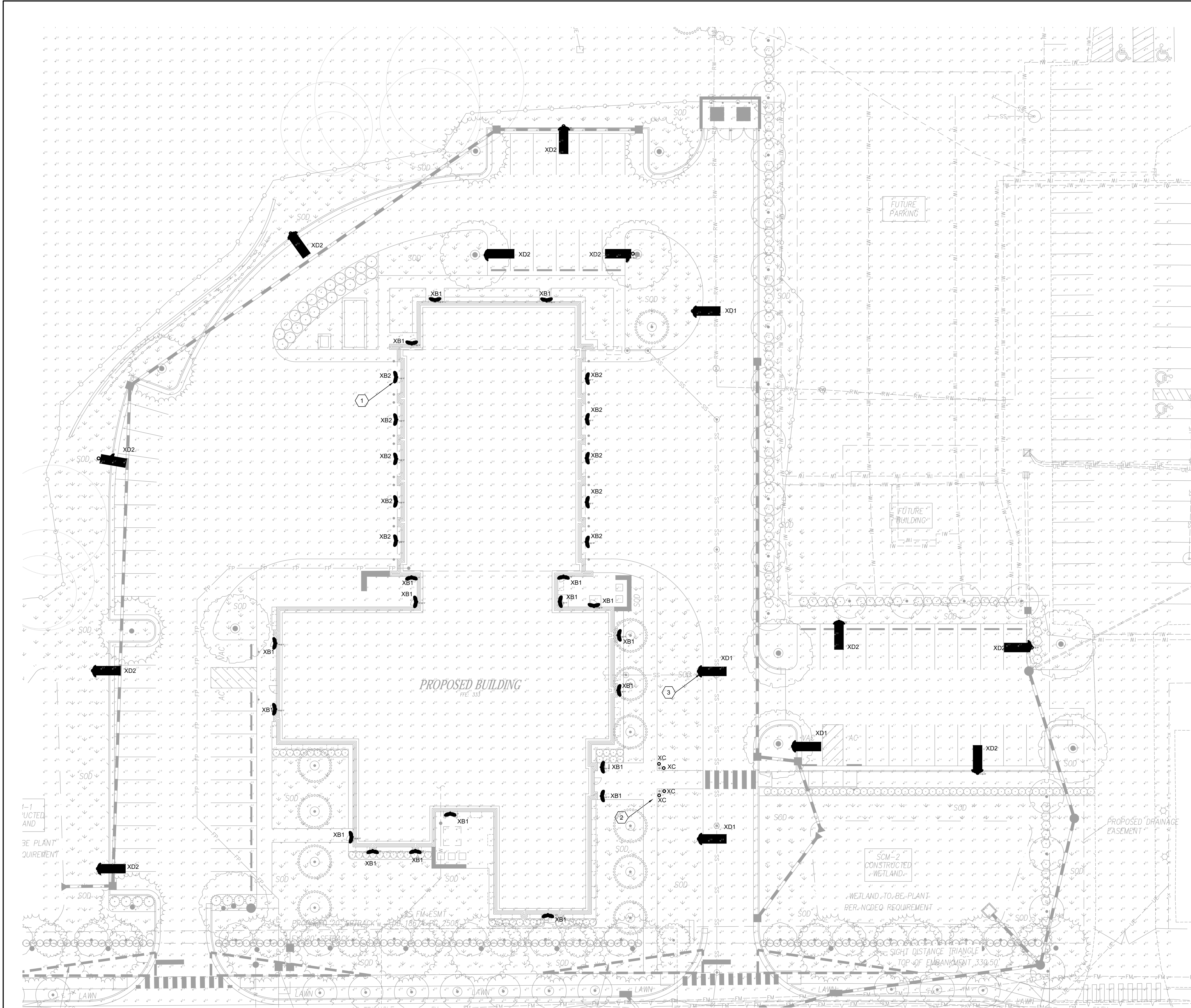
WALL SECTION @ DUMPSTER ENCLOSURE | 3/4" = 1'-0" 3



DUMPSTER GATE ELEVATION | 1/2" = 1'-0" 2



DUMPSTER ENCLOSURE | 1/2" = 1'-0" 1

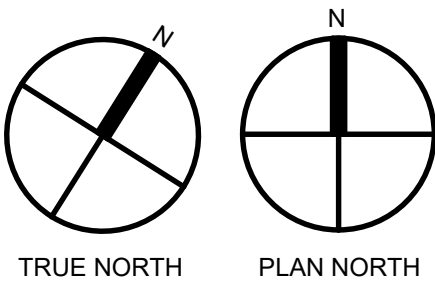


GENERAL NOTES:

1. REFER TO SHEETS E101-SP AND E102-SP FOR SITE LIGHTING CUTSHEETS.

NOTES KEYED TO 1/E100-SP:

1. PROVIDE IN-GROUND MOUNTED LIGHTING FOR FLAG POLES PER THE SCHEDULE BELOW. TYPICAL TYPE XA1, XB1 AND XB2.
2. PROVIDE IN-GROUND MOUNTED LIGHTING FOR FLAG POLES PER THE SCHEDULE BELOW. TYPICAL TYPE XC.
3. PROVIDE POLE MOUNTED LIGHTING PER THE SCHEDULE BELOW. TYPICAL TYPE XD1 AND XD2.



ELECTRICAL SITE PLAN | 1" = 20'-0" | 02

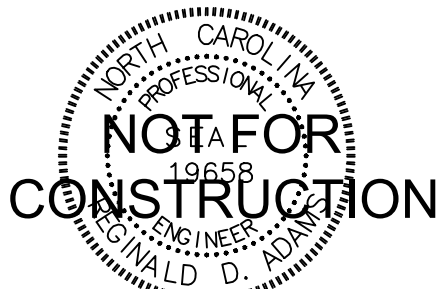
| EXTERIOR LIGHTING FIXTURE SCHEDULE | | | | | | | | |
|--|--|---------------|-------------------------------------|-------|------------------------|-------------|------|--|
| TYPE | DESCRIPTION | MANUF. NAME | MANUFACTURER CAT. NUMBERS | LAMPS | NO. OF BALLASTS/DRIVER | INPUT WATTS | VOLT | REMARKS |
| XA1 | NEW ARCHITECTURAL STYLE EXTERIOR FIXTURE | TROY LIGHTING | RS16-LED1840-TBZ-F3-SL23-TBZ-ARM | INC | INC | 18 | 120 | MOUNT PER ARCH ELEVATIONS |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| XB1 | EXTERIOR WALL SCONCE | HUBBELL | SG1-10-4K7-FT-120-CTBD | LED | LED DRIVER | 11 | 120 | MOUNT PER ARCH ELEVATIONS |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| XB2 | EXTERIOR WALL SCONCE | HUBBELL | RWL148L-20-4K7-3-UNV-CTBD | LED | LED DRIVER | 20 | 120 | MOUNT PER ARCH ELEVATIONS |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| XC | FLAG POLE LIGHTING | VISTA | 1188-D2-NS-40-B-MV-AX-ND-B34-TD15HS | LED | LED DRIVER | 36 | 120 | CONTRACTOR SHALL CLOSELY FOLLOW MAN. INSTRUCTIONS FOR INSTALLATION |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| XD1 | POLE MOUNTED LED | KIM | ALT1-28L-40-4K7-3-BC | LED | LED DRIVER | 40 | 120 | MOUNTED ON A 20'-0" POLE |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| XD2 | POLE MOUNTED LED | KIM | ALT1-54L-155-4K7-4W-BC | LED | LED DRIVER | 155 | 120 | MOUNTED ON A 30'-0" POLE |
| | | EQUAL | EQUAL | | | | | |
| | | EQUAL | EQUAL | | | | | |
| NOTES: POLE PER DRAWINGS ARM'S REQUIRED TBD-MOUNTING OR OTHER OPTION TO BE DECIDED BASED ON FIELD CONDITIONS CTBD-COLOR TO BE DECIDED FROM MANUFACTURERS STANDARD COLOR PALLETTE | | | | | | | | |

EXTERIOR LIGHTING FIXTURE SCHEDULE | NO SCALE | 01



ZEBULON FIRE
DEPARTMENT

201 W. Judd Street,
Zebulon, NC 27597



ELECTRICAL SITE PLAN

DATE: 02.07.2025
PROJECT NO: 19073

REVISIONS
NO: DATE: DESCRIPTION:

SHEET NUMBER

E100-SP



201 W. Judd Street,
Zebulon, NC 27597

201 W. Judd Street,
Zebulon, NC 27597



DATE: 02.07.2025
PROJECT NO: 19073

DATE: 02.07.2025
PROJECT NO: 19073

REVISIONS

| NO: | DATE: | DESCRIPTION |
|-----|-------|-------------|
|-----|-------|-------------|

| NO: | DATE: | DESCRIPTION: |
|-----|-------|--------------|
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SHEET NUMBER

E101-SP

TYPE XA1

STANDARD

Electrical

- 120V input (277V available in arm and post option only)
- Integrated power supply allows the fixture to be connected directly into line voltage
- Pre-wired and ready for install
- RS16 is dimmable with Incandescent/Triac dimmers

Mounting

- 1/2" or 3/4" IP for arms. Flush mount, stems and post available only in 1/2", see next page
- 9" Pendant cord available in black or white cord (includes 5' canopy with the same finish as the shade)

Finishes

- Shade and mounting finish options
- Available in 21 standard and 2 specialty finishes with optional coastal coating to protect finish in coastal environments (add "-C" to the finish)
- Inner shade is painted gloss white
- Consult factory for custom finish options

Optional Accessories

- Glass, Cast Guard, Wire Cage or Wire Guard options available, see page 57

Listing

UL listed to US and Canadian standards for wet locations

RS16MBK-2 / 2W1BK

Standard Order Matrix (Example: RS16MBK-2)

| Number | Lamp / LED | Finish | Coastal Coating | Accessories | Mounting Type |
|-----------------|------------|-------------------------------------|---------------------------------------|---|-------------------------|
| RS1616 | M | (Medium Base, 100W max) | ABL (Angein Blue) | (blank) (No accessories) | -2 (1/2" IP) |
| G16113 | 13 | (13W LED / 2700K / 90 CRI / 1850lm) | ABL (Angein Blue) | -CL (Clear Glass) | -3 (3/4" IP) |
| G16218 | 18 | (18W LED / 2700K / 90 CRI / 2700lm) | BK (Black Bronze) | -FG (Frosted Glass) | -B (Black Cord) |
| G16426 | 26W | (26W LED / 2700K / 90 CRI / 4200lm) | BLU (Blue) | -OG (Opal Glass) | -P (Pendant) |
| G16426 | 26W | (26W LED / 2700K / 90 CRI / 4200lm) | DWS (Dove Gray) | -CGG (Clear Glass w/ Cast Guard) | -W (White Cord) |
| G16426 | 26W | (26W LED / 2700K / 90 CRI / 4200lm) | FLG (Flannel Gray) | -FGG (Frosted Glass w/ Cast Guard) | -P (Pendant) |
| LED11271 | 11W | (11W LED / 2700K / 90 CRI / 1260lm) | GR (Granite) | -CGG (Clear Glass w/ Cast Guard) | -F (Flush Mount) |
| LED11300 | 11W | (11W LED / 3000K / 90 CRI / 1260lm) | LD (Lime Green) | -CGWC (Clear Glass w/ Wire Cage) | -F (Flush Mount) |
| LED11310 | 11W | (11W LED / 3500K / 90 CRI / 1350lm) | MD (Mocha Brown) | -FGWC (Frosted Glass w/ Wire Cage) | -F (Flush Mount) |
| LED11360 | 11W | (11W LED / 4000K / 90 CRI / 1350lm) | ML (Midnight Blue) | -WG (Wire Guard) | -F (Flush Mount) |
| LED15271 | 15W | (15W LED / 2700K / 90 CRI / 1620lm) | PLA (Painted Natural Aluminum) | | |
| LED15300 | 15W | (15W LED / 3000K / 90 CRI / 1720lm) | PNC (Painted Natural Copper) | | |
| LED15350 | 15W | (15W LED / 3500K / 90 CRI / 1780lm) | RD (Red) | | |
| LED15400 | 15W | (15W LED / 4000K / 90 CRI / 1860lm) | SA (Satin Aluminum) | | |
| | | | SGR (Sage Green) | | |
| | | | SOW (Satin Gloss White) | | |
| | | | SND (Slate) | | |
| | | | SS (Satin Silver) | | |
| | | | TBR (Textured Bronze) | | |
| | | | TGP (Textured Graphite) | | |
| | | | TNG (Turquoise) | | |
| | | | TTL (Titanium Teal) | | |
| | | | WT (Gloss White) | | |

- 1. Listed UL20 listed
- 2. Not for use in glassless quartz/hive cage
- 3. Glass enclosure must be installed

Try CSL Lighting reserves the right to change the technical specifications of its products at any time without notice.

www.TrySL.com

SLING Series

SENDER WALLPACK

FEATURES

- Two sizes for a variety of applications
- Ranges from 20W to 80W with up to 8000 lumens
- SGI Series replaces from 100W-150W HID; SGI2 Series replaces from 150W-250W HID
- Comfort lens available as an option or accessory provides glare control and enhanced uniformity
- Knuckle and turn-on accessory mounting kits available for food applications
- IP65 and certified to UL 1598 for use in wet locations up to 40°C ambient
- DLC (DesignLights Consortium Qualified - see www.designlights.org)

| | |
|-----------------------|-----------------|
| DATE: _____ | LOCATION: _____ |
| TYPE: XB ¹ | PROJECT: _____ |
| CATALOG #: _____ | |

tradeSELECT[™]

RELATED PRODUCTS

[# LNC Litespak](#) [# LNC2 Litespak](#) [# LNC4 Litespak](#)
[# GeoPak](#) [# GeoPak2](#)

SPECIFICATIONS

HOUSING

- Rugged die-cast aluminum housing with corrosion resistant powder coat finish
- Heating dissipating fins provide superior thermal performance extending the life of the electronic components
- Impact resistant tempered glass offers extra [safety](#)
- Comfort lens available as an option or accessory to reduce glare (70% lumen reduction) and provide better uniformity

OPTIONS

- 3000K, 4000K and 5000K CCT nominal with 70 CR
- Smaller SGI2 housing has 2 LEDs, larger SGI2 housing has 11 LEDs

INSTALLATION

- Side hinge allows for easy installation and wiring
- Side mounting avoids damage to the lens and helps prevent injury common in drop and swing hinge designs
- Mounts to #4 junction box and includes a knockout to help seal electrical connections
- Four 1/2" threaded conduit hubs for surface conduit pendent

ELECTRICAL

- 120-277V, 50/60Hz electronic drivers
- 307V and 480V available in large SGI2 housing
- 10KA surge protection included

OPTIONS/CONTROLS

- Patented photocontrolled for dusk to dawn energy savings. Stock versions include 120V/277V PC with a cover which provides a choice to engage photocontrol or not. PC is installed in top hub
- Occupancy sensor available for on/off and dimming control in larger SGI2 housing
- [SteloSync](#)[™] wireless lighting control delivers flexible control strategies for reducing power consumption and minimizing maintenance costs while delivering the right light levels with a simple and affordable wireless solution. See www.designlights.org or visit www.hubbellighting.com/stelosync for more details
- Battery backup options available in larger SGI2 housing rated for either 0° C or -30° C. Performance exceeds NEC requirement providing 1h minimum over 100V at 1h mounting height

CERTIFICATIONS

- DesignLights Consortium[®] (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 for use in wet location, listed for -40°C to 40°C applications
- IDA approved with zero uplight for 3000K and warmer CCT's
- IP65

WARRANTY

- 5 year limited warranty
- See [HUL Standard Warranty](#) for additional information

| KEY DATA | |
|--------------------------------|------------------|
| Lumen Range | 2263-8079 |
| Wattage Range | 21-80 |
| Efficacy Range (LPW) | 101-113 |
| Fixture Operating Life (Hours) | L70-50K |
| Weights (lbs. (kg)) | 4.3-11 (2.0-5.0) |

100 Year Hub® 1977-2017
 HUBBELL Outdoor Lighting | a division of Hubbell Lighting, Inc. | Specifications subject to change without notice.
 701 Millennium Blvd. Greenville, SC 29615 | Tel: 864.478.8000 | Web: www.hubbelloutdoor.com

HUBBELL
Outdoor Lighting

SLING SERIES

SLENDER WALLPACK

ORDERING GUIDE

Model # _____

DATE: _____ LOCATION: _____
TYPE: XB1 PROJECT: _____
CATALOG #: _____

Example: SG1-20-3K-FT-UVN-DPT-CC-S

ORDERING INFORMATION

| SG1 | 4K7 | FT | 120 | DBT | | | |
|-----------------------|-----------|----------------------|---------------|--------------------------------------|---|----------------------------|--|
| Housing | CCT/CRI | Distribution | Voltage | Color/Finish | Control Options | Options | |
| SG1S1 <i>See L10W</i> | 3000K | <i>FT: Full Cove</i> | UNV 120V/277V | BLT Black Matte Textured | PCU Universal Button Photocell (250-270°) | CS Comfort Lens | |
| SG1-30 Size 1, 120W | 3000K | | 500 120V | ELS Black Gloss Smooth | SCP11 Occupancy Sensor Programmable (2m) | IE1 Battery CRI | |
| SG1-30 Size 1, 30W | 4K7 4000K | | 277 277V | EBT <i>See Empire Metal Textured</i> | SWP1 Stylic Sync Pre-Commission w/ Sensor | IE1+ Battery w/ heater 20° | |
| SG1-40 Size 1, 40W | 3000K | | UNV 120V/277V | DBS Dark Bronze Gloss Smooth | SWP1 Stylic Sync Pre-Commission w/ Sensor | | |
| SG1-40 Size 2, 80W | 4K7 4000K | 70 CRI | | GTT Granite Matte Textured | Specify MTS HT for SCDS/SP & SWPM | | |
| | | | | LSG Light Grey Gloss Smooth | 20° Up to 20° | | |
| | | | | PSS Platinum Silver Smooth | | | |
| | | | | WHI White Matte Textured | | | |
| | | | | WHS White Gloss Smooth | | | |
| | | | | VGT Verde Green Textured | | | |
| | | | | Color Option | | | |
| | | | | CC Custom Color | | | |

Notes:

- Available in SGL only, UNV available in SGL only
- Sensor controls & battery backup are not to be used with flood accessories or kit for Invertebrate Museum, 120-277V only for SCDS/SP 12 or 277 only for SMT, SMM, & H1
- Not a true minimum of one remote control to program setting settings. 1/200 ft. fully adjustable dimming with automatic, adjustable color and different time delay settings. 120-277 only

STOCK ORDERING INFORMATION

| Catalog Number | CCT/CRI | Wattage | Mounting Height | Color | Color | Delivered Lumens | LPW | Weight lbs. (kg) |
|----------------|----------|---------|-----------------|----------|-------------|------------------|-----|------------------|
| SG1-10-PCU | 5000K/70 | 10W | 8'-12ft. | 120-277V | Dark Bronze | 1849 | 129 | 4.3 (2.0) |
| SG1-10-4K-PCU | 4000K/70 | 10W | 8'-12ft. | 120-277V | Dark Bronze | 1244 | 129 | 4.3 (2.0) |
| SG1-20-PCU | 5000K/70 | 20W | 8'-12ft. | 120-277V | Dark Bronze | 2263 | 106 | 4.3 (2.0) |
| SG1-20-4K-PCU | 4000K/70 | 20W | 8'-12ft. | 120-277V | Dark Bronze | 2230 | 110 | 4.3 (2.0) |
| SG1-30-PCU | 5000K/70 | 30W | 10-18ft. | 120-277V | Dark Bronze | 3270 | 135 | 4.3 (2.0) |
| SG1-30-4K-PCU | 4000K/70 | 30W | 10-18ft. | 120-277V | Dark Bronze | 3060 | 105 | 4.3 (2.0) |
| SG1-40-PCU | 5000K/70 | 40W | 10-18ft. | 120-277V | Dark Bronze | 4208 | 105 | 4.3 (2.0) |
| SG1-40-4K-PCU | 4000K/70 | 40W | 10-18ft. | 120-277V | Dark Bronze | 4070 | 106 | 4.3 (2.0) |
| SG1-50-PCU | 5000K/70 | 50W | 10-18ft. | 120-277V | Dark Bronze | 5548 | 110 | 11.5 (5.2) |
| SG1-50-4K-PCU | 4000K/70 | 50W | 10-18ft. | 120-277V | Dark Bronze | 5526 | 109 | 11.5 (5.2) |
| SG1-80-PCU | 5000K/70 | 80W | 16-25ft. | 120-277V | Dark Bronze | 8061 | 101 | 11.5 (5.2) |
| SG1-80-4K-PCU | 4000K/70 | 80W | 16-25ft. | 120-277V | Dark Bronze | 8070 | 101 | 11.5 (5.2) |

Price as of Nov. 11/17/20
Model # _____

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701 Millennium Blvd • Greenville, SC 29607 | Tel 864.678.9000 | Website: www.hubbelloutdoor.com

HUBBELL
Lighting

| | | |
|---------------------|----------|----|
| TYPE "XA1" CUTSHEET | NO SCALE | 03 |
|---------------------|----------|----|

| | | |
|---------------------|----------|----|
| TYPE "XB1" CUTSHEET | NO SCALE | 02 |
|---------------------|----------|----|



RATIO WALL
RWL/RWL2 LED WALLPACK

SHEET: **DATE:** **LOCATION:**
TYPE: **XB2** PROJECT:
CATALOG: **F**

microSTRIKE **STRIKE**

FEATURES

- Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount
- Featuring Strike and Micro Strike Optics which maximize target area illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Control options include photo control, occupancy sensing, NC Distributed Intelligence¹, LightGrid² and 7-pin with networked controller
- Battery Backup options available for emergency code compliance
- Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada

CONTROL TECHNOLOGY

SERVICE PROGRAM

SPECIFICATIONS

CONSTRUCTION

- Die-casting housing with hidden vertical heat fins that are optimized for heat dissipation while providing a clean smooth outer surface
- Corrosion resistant, cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hours from salt water spray testing

OPTICS

- Emitter optical assembly illuminates to create even luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 gawd LEDs

LEADER

- 3000K, 4000K or 5000K (0 CR80 CB CCT)
- Zero uplight distributions
- LED optics provide IES Type III, II and IV distributions. Type I only available in RWL2 configuration

INSTALLATION

- Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- Designed for direct-to-house-side mounting
- Integral back box contains 92° conical tube
- Integral backbox provides as standard with inclusion of some options

ELECTRICAL

- 120V-277V universal voltage 50/60Hz 0-10V dimmable drivers
- 347V and 480V dimmable driver for all wattages above 35W
- Ambient operating temperature -40°C to 40°C
- Driver RoHS and PFS6

ELECTRICAL (CONTINUED)

- 10KV Surge Protector optional
- Drivers have greater than .90 power factor and less than .20% Total Harmonic Distortion
- Dual Driver option contains 2 drivers within luminaire but only one set of leads is required to the luminaire, where Dual Power Feed luminaire has two drivers which can be wired independently at two separate leads. Both options can not be included in one same fixture
- Dimming drivers are standard and dimming loads are extended out of the luminaires
- Wireless control options require connection to the dimming loads. Must specify wiring in order to be greater than .6" standard.

CONTROLS

- Photo control, occupancy sensor and wireless interface for complete on/off and dimming control
- 7-pin photocontrol is suitable for 120-277V operation
- 7-pin ANSI C136-41-2013 photocontrol photocell option available for total lock photocellless or wireless control (optional accessories sold separately)
- "Not distributed Intelligence" available with in future wireless luminaire models. Features dimming and occupancy sensor
- LightGrid² available with in future wireless luminaire models. Features dimming and occupancy sensor
- Integral Battery Backup provides emergency lighting for the required 90 minute path of egress
- Battery Backup suitable for operating temperatures: -25°C to 40°C. RWL1 battery is 12.5Wh RWL2 battery is 18Wh

| | Weight |
|------|--------------------|
| RWL1 | 6.5 lbs / 2.95 kg |
| RWL2 | 16.5 lbs / 7.48 kg |

CONTROLS (CONTINUED)

- Dual Driver and Dual Power Feed options creates product configuration with 2 internal drivers for code compliance
- Please consult brand or sales representative when combining control and electrical options as some combinations may not operate as anticipated depending on your application.

LightGrid² available with in future wireless control models. Features dimming and occupancy sensor. Also available in 7-pin configuration

CERTIFICATIONS

- Certified to UL 1598 and CSA 22.2 250/50-24 for wet locations
- IP65 rated housing
- IES® DesignLights Consortium Qualified, with some Premium Qualified configurations. Not all product variations listed in this document are DLC® qualified. Refer to <http://www.designlights.org> for the most up-to-date list

• Emergency battery backup options are California Energy Commission (CEC) Title 20 Compliant

- Meets IDA requirements using 3K CCT configuration at 0 degrees or 10 degrees

WARRANTY

- 5 year limited warranty

Current®

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Rev: 02/2014
Ratio_Wall_Spec_Sheet_905

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| | | |
|---------------------|------|----|
| TYPE "XB2" CUTSHEET | NONE | 01 |
|---------------------|------|----|

TYPE "XB2" CUTSHEET



NOT FOR CONSTRUCTION

REVISIONS

| NO: | DATE: | DESCRIPTION: |
|-----|-------|--------------|
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SHEET NUMBER

E102-SP

TYPE "XC" CUTSHEET

TYPE "XD1" CUTSHEET

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