

WILMINGTON THREE PHASE A

WILMINGTON, NORTH CAROLINA

DESIGN DOCUMENTS JANUARY 2021

REV. MARCH 2021

DEVELOPER:

CK WILMINGTON THREE PHASE A, LLC
301 SOUTH COLLEGE STREET, SUITE 2800
CHARLOTTE, NORTH CAROLINA 28202

OWNER:

CAMERON PROPERTIES LAND CO, LLC
1201 GLEN MADE RD.
WILMINGTON, NORTH CAROLINA 28401

ARCHITECT

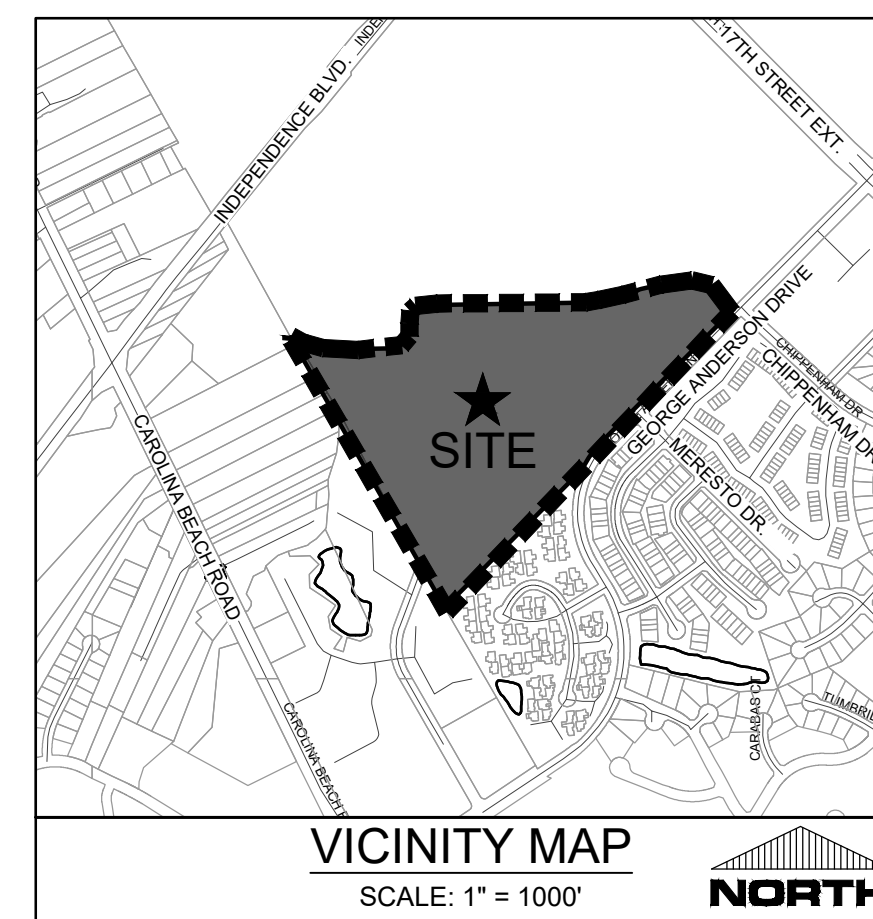
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333 WEST TRADE STREET, SUITE 300
CHARLOTTE, NORTH CAROLINA 28202
704.333.7862
ARCHITECT - ATTN: CARL NALLS

CIVIL ENGINEER

PARAMOUNTE ENGINEERING, INC.
122 CINEMA DRIVE
WILMINGTON, NORTH CAROLINA 28403
910.791.6707
CIVIL ENGINEER - ATTN: DAN FISK, PE LANDSCAPE ARCHITECT - ATTN: MIKE NICHOLS, RLA

LANDSCAPE ARCHITECT

MIHALY LAND DESIGN
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NOTICE REQUIRED

ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST TWO WORKING DAYS, BUT NOT MORE THAN TEN WORKING DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION.

CONTACT "CAROLINA ONE CALL" AT
1-800-632-4949

CONTACT THESE UTILITIES

CITY OF WILMINGTON, DEVELOPMENT SERVICES
ATTN: BRIAN CHAMBERS
PH: 910-341-2782

CAPE FEAR PUBLIC UTILITY AUTHORITY (WATER & SEWER)
ATTN: FRANK STYERS
PH: 910-332-6670

PIEDMONT NATURAL GAS
ATTN: PAUL GONKA
PH: 910-251-2810

DUKE ENERGY PROGRESS
ATTN: MARK A. HATFIELD
PH: 910-550-3428

EMERGENCY DIAL 911
POLICE - FIRE - RESCUE

AT&T
ATTN: STEVE DAYVAULT
PH: 910-341-0741
EMAIL: s89094@att.com

TIME WARNER CABLE
PH: 910-763-4638

PREPARED BY:
PARAMOUNTE
ENGINEERING, INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6700 (F)
NC License # 8-2846
PROJECT # 20195.PE



Know what's below.
Call before you dig.

REVISIONS:	DATE	DESCRIPTION
1. PER NCD ECOMENT	08/17/21	

CLIENT INFORMATION:

CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNTE
ENGINEERING, INC.

122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6700 (F)
NC License #: 8-2846

COVER SHEET

WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS

CONSTRUCTION: PERMITTING: ISSUED FOR CONSTRUCTION:
PRELIMINARY LAYOUT: FINAL DESIGN:
DATE: 08/26/21
SCALE: AS NOTED
DRAWN BY: D.F.P.
CHECKED: D.F.P.

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-0.0

PEI JOB#: 20195.PE

COORDINATION NOTES:

- 1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
2. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND WITH THE CITY OF WILMINGTON, NEW HANOVER COUNTY, CAPE FEAR PUBLIC UTILITY AUTHORITY (CPFA), AND THE STATE OF NORTH CAROLINA.
3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT.
4. ANYTIME WORK IS PERFORMED OFF-SITE OR WITH AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.
5. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS BY OTHERS FOR ALL BUILDING DIMENSIONS AND DETAILS.

GENERAL NOTES:

- 1. TREE INVENTORY AND TOPOGRAPHIC SURVEY COMPLETED BY PARAMOUNT ENGINEERING, INC. THE SURVEY SHALL BE FIELD VERIFIED BY CONTRACTOR AND ANY DISCREPANCIES REPORTED TO THE OWNER AND ENGINEER.
2. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES.
3. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC.
5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
6. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
7. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 811 AN ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
8. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION.
9. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMAN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
10. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
11. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
12. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
13. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
14. ALL STREET SURFACES, DRIVEWAYS, CURBS AND GUTTERS, ROADSIDE DRAINAGE DITCHES AND OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS.
15. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING AND UTILITIES.
16. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW.
17. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES.
18. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
19. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.
20. ALL LOT STRIPING AND DIRECTIONAL ARROWS TO BE REFLECTIVE MARKINGS AND SHALL CONFORM TO CDOT.
21. LANDSCAPE PLANTINGS AT ENTRANCE/ EXITS WILL BE INSTALLED AND MAINTAINED SO AS NOT TO INTERFERE WITH SIGHT DISTANCE NEEDS OF DRIVERS IN THE PARKING AREA AND AT ENTRANCE/EXIT LOCATIONS PER LOCAL STANDARDS.
22. ALL DIMENSIONS AND RADI ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.
23. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10'.

TRAFFIC NOTES:

- 1. ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY & FOR DRIVEWAY(S) ARE TO BE THERMOPLASTIC & MEET CITY OF WILMINGTON AND/OR NCDOT STANDARDS.
2. TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
3. ALL TRAFFIC CONTROL SIGNS AND MARKINGS NOT WITHIN THE PUBLIC RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
4. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
5. ANY OPEN CUTTING OF A CITY STREET REQUIRES A UTILITY CUT PERMIT.
6. CONTACT TRAFFIC ENGINEERING, AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
7. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND/OR CURBING SHALL BE REPLACED.
8. TACTILE WARNING MATS TO BE INSTALLED AT ALL WHEELCHAIR RAMPS.
9. STREET TREES MUST BE LOCATED A MINIMUM OF 15 FEET FROM STREETLIGHTS.
10. IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL.
11. CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING UTILITIES IN ROW.
12. CONTACT TRAFFIC ENGINEERING AT (910) 341-7888 TO DISCUSS STREET LIGHTING OPTIONS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES:

- 1. THE EROSION CONTROL PLAN SHALL INCLUDE PROVISIONS FOR GROUND COVER ON ALL EXPOSED PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 WITHIN 7 CALENDAR DAYS FROM THE LAST LAND DISTURBING ACTIVITY.
2. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK.
3. THE CONTRACTOR SHALL NOTIFY PLAN APPROVING AUTHORITY ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO FINAL INSPECTION.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO CLEARING AND/OR LAND DISTURBANCE.
5. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
6. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO OFF-SITE BORROW OR WASTE AREAS STAGING OR STORAGE AREAS), THE CONTRACTOR SHALL PREPARE AND SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND TO NEW HANOVER COUNTY FOR APPROVAL.
7. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY EITHER THE REVIEWING AGENCY OR THE ENGINEER.
8. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
9. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SODED OR SEEDED AS INDICATED AND STABILIZED.
10. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE PRIOR TO DISCHARGE TO RECEIVING OUTLET.
11. THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING EVENT.
12. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED BY CONTRACTOR ONCE STABILIZATION AND SUFFICIENT GROUND COVER HAS BEEN ESTABLISHED OR AS DIRECTED BY THE ENGINEER.
13. TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE REQUIRED AT ALL CONSTRUCTION STAGING AREA ENTRANCES AND ALL CONSTRUCTION ACCESS LOCATIONS INTO NON-PAVED AREA.
14. WHEN CROSSING CREEK OR DRAINAGE-WAY, THE DIVISION OF WATER QUALITY SHALL BE CONTACTED PRIOR TO DISTURBING A CREEK.
15. ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE IMPROVED SHALL BE SODED OR SEEDED AS INDICATED AND STABILIZED.

DEMOLITION NOTES:

- 1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED.
3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED.
5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL PROVIDE A PHOTOGRAPHIC RECORD (DIGITAL) OF DEVELOPMENT COMMENCING WITH A RECORD OF THE SITE AS IT APPEARS BEFORE DEMOLITION HAS BEGUN.
7. EXISTING CURB AND GUTTER, LIGHTS, SIDEWALK, AND UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
8. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.
9. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
10. CONTRACTOR SHALL MAINTAIN REQUIRED DISTANCES FROM HIGH VOLTAGE OVERHEAD LINES AND REMOVE TREES SO THEY DO NOT FALL TOWARDS OVERHEAD ELECTRICITY.
11. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
12. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.
13. EXISTING FIRE HYDRANTS ON OR NEAR THE SITE ARE TO REMAIN IN SERVICE.
14. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS.

GENERAL STORM SEWER NOTES:

- 1. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF WILMINGTON REQUIREMENTS AS SPECIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.
2. BEDDING FOR ALL STORM SEWER PIPE SHALL BE AS SPECIFIED ON THE DRAWINGS.
3. ALL STORM SEWER PIPES SHOWN AS RCP ON THE PLANS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, UNLESS INDICATED OTHERWISE ON PLANS.

ROOF DRAIN NOTE:

- 1) PROPOSED BUILDING SHALL DIVERT ROOF DRAINAGE TO STORMWATER COLLECTION SYSTEM.

EXISTING UTILITY NOTES:

- 1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS.
3. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-345-0696.
4. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.

WETLAND NOTES:

- 1) THERE ARE NO WETLANDS ON THE PROPERTY. THIS DETERMINATION HAS BEEN AGREED TO BY THE ACOE (SAW-2005-00627).

FIRE AND LIFE SAFETY NOTES:

- 1. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
2. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO COMBUSTIBLE MATERIALS DELIVERED TO THE JOB SITE.
3. HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
4. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS.
5. PRIVATE UNDERGROUND FIRE LINES REQUIRE A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION 910-345-0696.
6. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
7. ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
8. ALL ISOLATION VALVES WITHIN THE "HOT BOX" AND BETWEEN THE "HOT BOX" AND THE RISER ROOM, MUST BE ELECTRICALLY SUPERVISED.

EROSION CONTROL AND SEQUENCE OF CONSTRUCTION NOTES:

- NOTE: THESE EROSION CONTROL AND SEQUENCE OF CONSTRUCTION NOTES ARE INTENDED FOR EACH "PHASE" OF CONSTRUCTION.
1. CONSTRUCT TEMPORARY GRAVEL CONSTRUCTION ENTRANCE(S), ESTABLISH THE LIMITS OF DISTURBANCE, TREE PROTECTION FENCING, AND TEMPORARY SILT FENCE.
2. CLEAR AND REMOVE FROM SITE TREES AS DESIGNATED, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN THE DESIGNATED CLEARING LIMITS.
3. CONSTRUCT TEMPORARY SEDIMENT BASIN(S) AND ASSOCIATED SKIMMER, OUTLET PIPE, SPILLWAY, ETC.
4. INSTALL REMAINING EROSION CONTROL MEASURES AS SHOWN ON THE PLANS WITHIN THE AREA DISTURBED.
5. PLANT GRASS OVER ALL GRADED AREAS WITHIN 14 WORKING DAYS OF CEASE OF ANY GRADING ACTIVITY.
6. IMMEDIATELY UPON THE INSTALLATION OF ANY STORM DRAINAGE CATCH BASIN, DROP INLET, ETC., THE CONTRACTOR SHALL INSTALL INLET PROTECTION TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AND ALL PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION CONTROL MEASURES.
8. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETE, THE CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL APPROVAL BY ENGINEER OR EROSION CONTROL INSPECTOR.
9. UPON RECEIVING FINAL APPROVAL, THE CONTRACTOR CAN REMOVE TEMPORARY EROSION CONTROL MEASURES.
10. THE CONTRACTOR SHALL CONTINUE TO WATER, FERTILIZE, MOW AND MAINTAIN GRASS & PLANTED AREAS UNTIL ALL CONSTRUCTION IS COMPLETE.

EROSION CONTROL MAINTENANCE PLAN:

- 1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2-INCH OR GREATER RAINFALL, BUT IN NO CASE LESS THAN ONCE EVERY WEEK.
2. ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH.
3. SEDIMENT FENCE / SEDIMENT FENCE OUTLETS - SEDIMENT WILL BE REMOVED BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF-FILLED.
4. ALL SEEDED AREAS WILL BE FERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS ON THESE PLANS.
5. INLET PROTECTION - SEDIMENT SHALL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL.
6. SEDIMENT BASIN/SEDIMENT TRAPS - REMOVE SEDIMENT AND RESTORE THE SOAKS TO ITS ORIGINAL DIMENSIONS.
7. SKIMMER - INSPECT SKIMMER AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL.
8. OUTLET PROTECTION - INSPECT RIP RAP OUTLET STRUCTURES WEEKLY AND AFTER RAINFALL EVENTS.
9. EMERGENCY SPILLWAY / FOREBAY PROTECTION - AFTER EVERY HIGH-WATER EVENT INSPECT THE INTEGRITY OF THE LINED SPILLWAY AND THE ADJACENT EARTHEN BANKS.
10. DIVERSION DITCHES / GRASS SWALES - INSPECT THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES.
11. CHECK DAMS - EXCELSIOR OR RIP-RAP - SEDIMENT SHALL BE REMOVED FROM THE DAM WHEN IT REACHES HALF-FILLED.
12. CONCRETE WASHOUTS - CONCRETE WASHOUTS SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS.
13. WATTLE BARRIER - IT IS IMPORTANT THAT THE WATTLE BARRIERS BE KEPT CLEAN TO ALLOW WATER TO FLOW THROUGH THE NATURAL FIBERS.

PERMANENT SEEDING table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

TEMPORARY SEEDING table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

Table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

Table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

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Table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

Table with columns: GRASS TYPE, LBS/ ACRE, TIME OF SEEDING, FERTILIZER LIMESTONE

NC ACCESSIBILITY NOTES:

- 1. SPECIAL ATTENTION SHALL BE GIVEN TO COMPLIANCE WITH AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.
2. IT IS ESSENTIAL THAT CONTRACTORS ARE AWARE OF THE SITE ACCESSIBILITY REQUIREMENTS.
3. THE CONTRACTOR SHALL NOTIFY PARAMOUNT ENGINEERING IMMEDIATELY OF ANY CONFLICT BETWEEN THESE NOTES AND DETAILS AND OTHER PROJECT DRAWINGS.
4. THESE ACCESSIBILITY NOTES AND DETAILS ARE INTENDED TO DEPICT SLOPE AND DIMENSIONAL REQUIREMENTS ONLY.

ACCESSIBLE ROUTE NOTES:

- 1. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES.
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE.
3. WALKING SURFACES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5.0% AND A MAXIMUM CROSS SLOPE OF 2.0%.
4. ANY WALKING SURFACE THAT IS PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5.0% IS A RAMP AND SHALL COMPLY WITH THE GUIDELINES FOR RAMPS OR CURB RAMPS.
5. TRANSITIONS BETWEEN RAMPS, WALKS, LANDINGS, GUTTERS OR STREETS SHALL BE FLUSH AND FREE OF ABRUPT VERTICAL CHANGES.
6. FLOOR SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT.
7. THE MINIMUM CLEAR WIDTH OF EXTERIOR ACCESSIBLE ROUTES SHALL BE FORTY-EIGHT (48) INCHES MINIMUM MEASURED BETWEEN HANDRAILS WHERE HANDRAILS ARE PROVIDED.
8. WHERE AN ACCESSIBLE ROUTE MAKES A 180 DEGREE TURN AROUND AN OBJECT THAT IS LESS THAN FORTY EIGHT (48) INCHES IN WIDTH, THE CLEAR WIDTH SHALL BE FORTY-TWO (42) INCHES MINIMUM APPROACHING THE TURN, FORTY EIGHT (48) INCHES MINIMUM DURING THE TURN, AND FORTY-TWO (42) INCHES MINIMUM LEAVING THE TURN.
9. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN SIXTY (60) INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF TWO HUNDRED (200) FEET MAXIMUM.
10. DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NORTH CAROLINA BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS.
11. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST ACCESSIBLE BUILDING ENTRANCE SHALL BE PROVIDED AT INACCESSIBLE BUILDING ENTRANCES.
12. WHERE POSSIBLE, DRAINAGE INLETS SHALL NOT BE LOCATED ON AN ACCESSIBLE ROUTE.

RAMP NOTES:

- 1. ANY PART OF AN ACCESSIBLE ROUTE WITH A RUNNING SLOPE GREATER THAN 5% SHALL BE CONSIDERED A RAMP.
2. THE MAXIMUM RUNNING SLOPE FOR A RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
3. THE CLEAR WIDTH OF AN EXTERIOR RAMP RUN SHALL BE FORTY EIGHT INCHES (NC BUILDING CODE 1104.1).
4. THE RISE FOR ANY RAMP RUN SHALL BE THIRTY (30) INCHES MAXIMUM.
5. LANDINGS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF RAMPS.
6. RAMP RUNS WITH A RISE GREATER THAN SIX (6) INCHES SHALL HAVE HANDRAILS ON BOTH SIDES.
7. FLOOR SURFACES OF RAMPS AND LANDINGS SHALL BE STABLE, FIRM AND SLIP RESISTANT.
8. EDGE PROTECTION COMPLYING WITH AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NC BUILDING CODE(ANSI) A117.1, AND APPLICABLE LOCAL LAWS & REGULATIONS SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND ON EACH SIDE OF RAMP LANDINGS.
9. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS), THE NC BUILDING CODE(ANSI) A117.1 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA.

CURB RAMP NOTES:

- 1. THE MAXIMUM RUNNING SLOPE OF A CURB RAMP SHALL BE 8.33% AND THE MAXIMUM CROSS SLOPE SHALL BE 2.0%.
2. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5%.
3. THE CLEAR WIDTH OF A CURB RAMP SHALL BE 36 INCHES (36) MINIMUM, EXCLUSIVE OF FLARED SIDES.
4. LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS.
5. IF A CURB RAMP IS LOCATED WHERE PEDESTRIANS MUST WALK ACROSS THE RAMP, OR WHERE IT IS NOT PROTECTED BY HANDRAILS OR GUARDRAILS, IT SHALL HAVE FLARED SIDES.
6. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT EXCEED 10%.
7. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.
8. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
9. IT IS RECOMMENDED TO PROVIDE CURB RAMPS WITH A TWENTY-FOUR (24) INCH DEEP DETECTABLE WARNING COMPLYING WITH 406.12 A117.1, EXTENDING THE FULL WIDTH OF THE RAMP.
10. FLOOR SURFACES OF CURB RAMPS SHALL BE DEEP GROOVED, 1/4 INCH WIDE BY 1/4 INCH DEEP, ONE (1) INCH CENTERS TRANSVERSE TO THE RAMP.
11. WHERE PROVIDED, STOP LINES SHALL BE LOCATED IN ADVANCE OF CURB RAMP.
12. WHERE PROVIDED, PEDESTRIAN ACTIVATED SIGNALS SHALL BE LOCATED ADJACENT TO THE SIDEWALK AND NOT ON THE SIDEWALK.
13. WHERE PROVIDED, DRAINAGE INLETS SHALL BE LOCATED UPSTREAM OF CURB RAMPS AND NOT IN THE RAMP AREA.
14. CURB RAMP TYPE AND LOCATION ARE PER PLAN.

NC ACCESSIBILITY NOTES CONTD:

- 1. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTES OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE BUILDING ENTRANCE.
2. ACCESSIBLE PARKING SPACES SHALL BE AT LEAST NINETY-SIX (96) INCHES WIDE.
3. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING OR FACILITY ENTRANCE.
4. TWO (2) ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE.
5. ACCESS AISLES SHALL EXTEND THE FULL LENGTH OF THE PARKING SPACE THEY SERVE.
6. ACCESS AISLES SHALL BE MARKED SO AS TO DISCOURAGE PARKING IN THEM.
7. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY.
8. FLOOR SURFACES OF PARKING SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE, FIRM AND SLIP RESISTANT.
9. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS.
10. PARKED VEHICLE OVERHANGS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE.
11. PARKING SPACES FOR VANS AND ACCESS AISLES AND VEHICULAR ROUTES SERVING THEM SHALL PROVIDE A VERTICAL CLEARANCE OF NINETY-EIGHT (98) INCHES MINIMUM.
12. EACH ACCESSIBLE PARKING SPACE SHALL BE PROVIDED WITH SIGNAGE DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
13. SIGNAGE AT ACCESSIBLE PARKING SPACES REQUIRED BY THE NC BUILDING CODE SECTION 1106 I SHALL COMPLY WITH THE REQUIREMENTS OF NORTH CAROLINA GENERAL STATUTE 20-37.6 AND 136-30 AND THE NCDOT UNIFORM MANUAL ON TRAFFIC CONTROL DEVICES.
14. ACCESSIBLE PARKING SPACE, ACCESS AISLE STRIPING, AND INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE PAINTED BLUE (OR ANOTHER COLOR THAT CAN BE DISTINGUISHED FROM PAVEMENT).

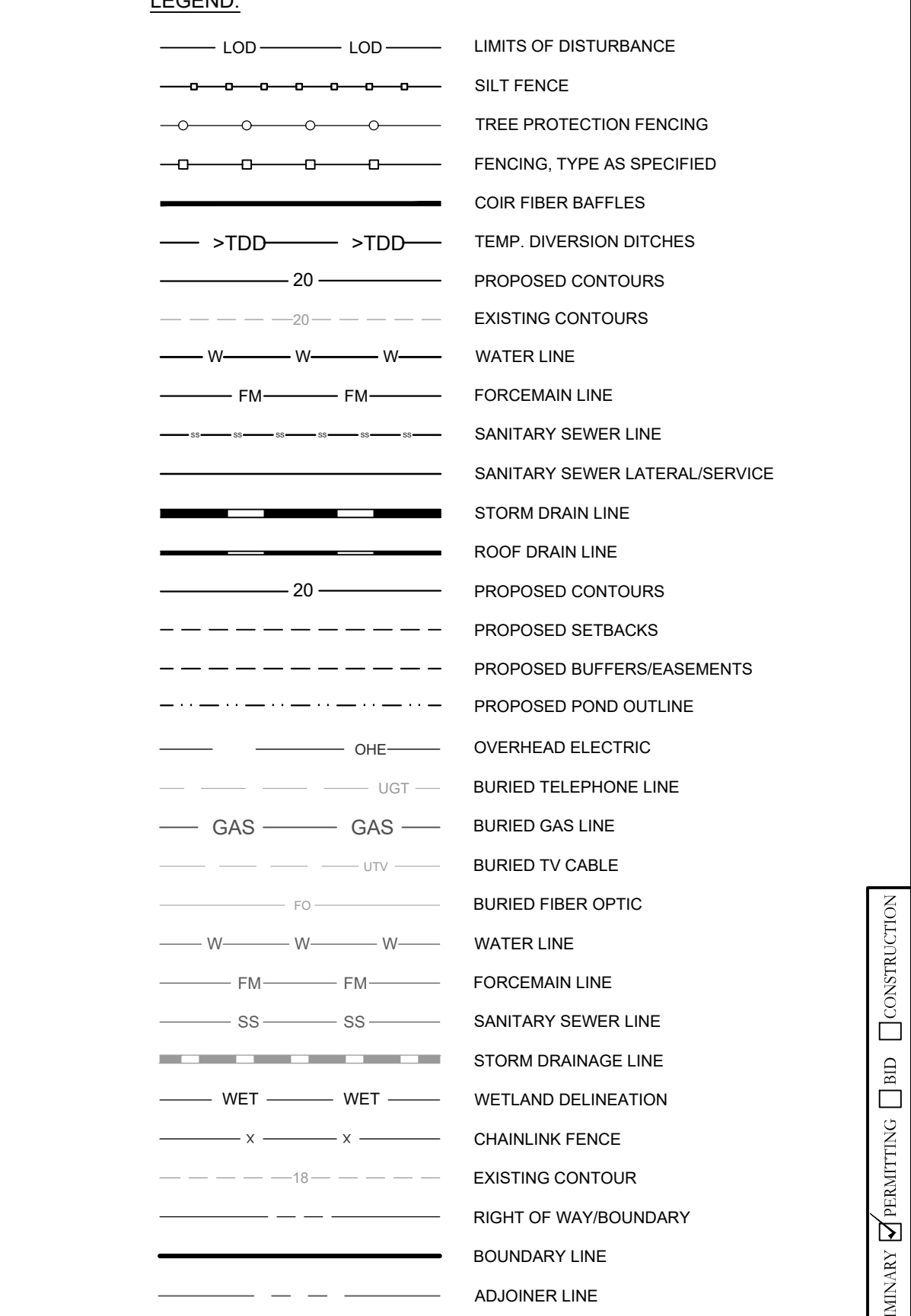
PASSENGER LOADING ZONE NOTES:

- 1. PASSENGER LOADING ZONES SHALL PROVIDE VEHICULAR PULL-UP SPACE NINETY-SIX (96) INCHES WIDE MINIMUM AND TWENTY (20) FEET LONG MINIMUM.
2. PASSENGER LOADING ZONES SHALL PROVIDE A FULLY MARKED ACCESS AISLE THAT IS SIXTY (60) INCHES WIDE MINIMUM AND EXTENDS THE CLEAR LENGTH OF THE VEHICLE PULL-UP SPACE THEY SERVE.
3. ACCESS AISLE SHALL ADJOIN AN ACCESSIBLE ROUTE AND NOT OVERLAP THE VEHICULAR WAY.
4. VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 2.0% IN ALL DIRECTIONS.
5. FLOOR SURFACES OF VEHICLE PULL-UP SPACES AND ACCESS AISLES SERVING THEM SHALL BE STABLE, FIRM AND SLIP RESISTANT.
6. VEHICLE PULL-UP SPACES, ACCESS AISLES SERVING THEM AND A VEHICULAR ROUTE FROM AN ENTRANCE TO THE PASSENGER LOADING ZONE AND FROM THE PASSENGER LOADING ZONE TO A VEHICULAR EXIT SERVING THEM, SHALL PROVIDE A VERTICAL CLEARANCE OF ONE HUNDRED FOURTEEN (114) INCHES MINIMUM.

ACCESSIBLE ENTRANCE NOTES:

- 1. ACCESSIBLE ENTRANCES SHALL BE PROVIDED AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS) AND THE NORTH CAROLINA BUILDING CODE, AND APPLICABLE LOCAL LAWS & REGULATIONS.
2. ENTRANCE DOORS, DOORWAYS AND GATES SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (2010 ADA STANDARDS) THE NC BUILDING CODE(ANSI) A117.1 AND SHALL BE ON AN ACCESSIBLE ROUTE.

LEGEND:



REVISIONS:

CLIENT INFORMATION: CK WILMINGTON THREE PHASE A, LLC CHARLOTTE, NC

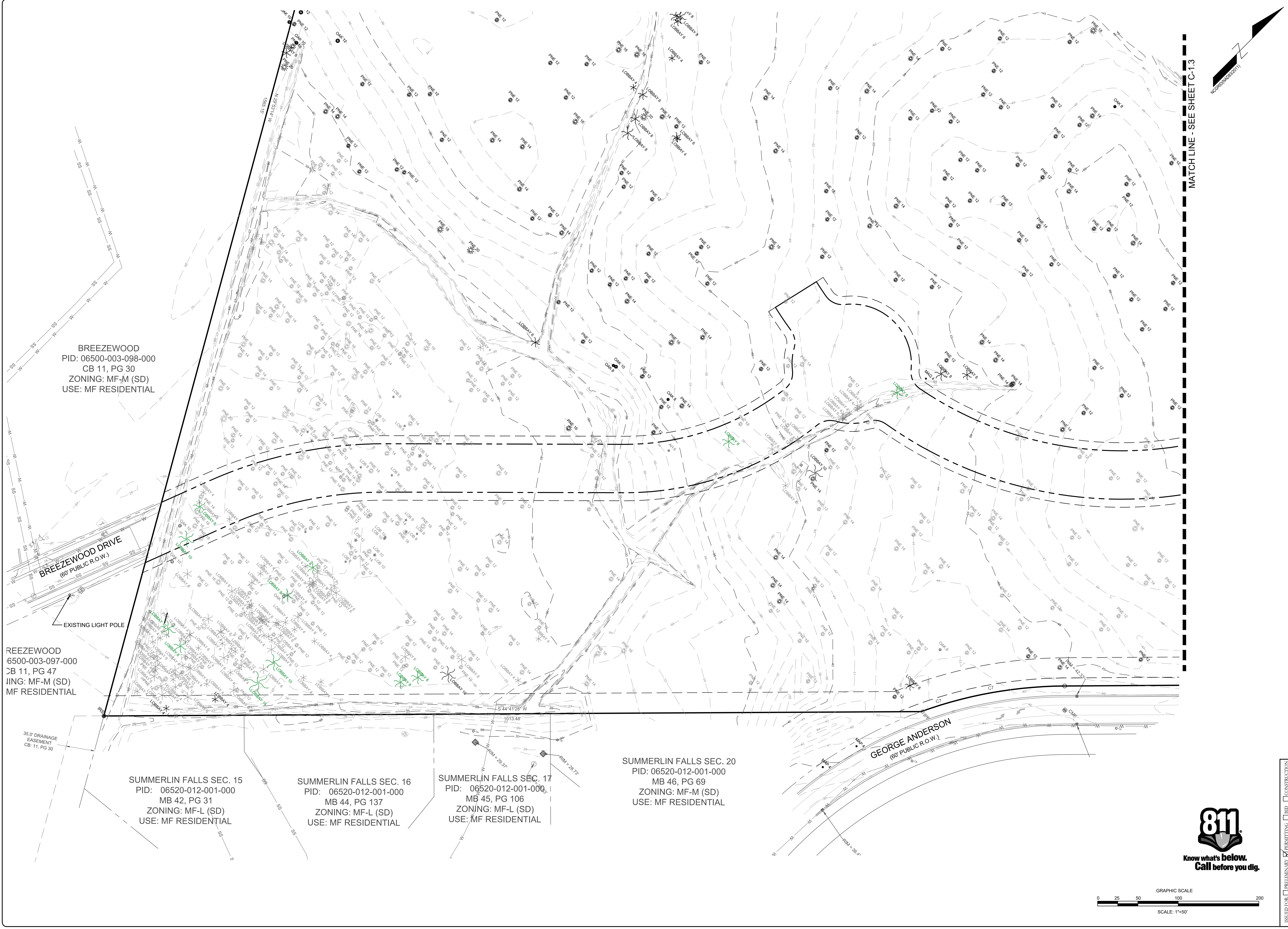
PARAMOUNT ENGINEERING INC. 122 Cinema Drive Wilmington, North Carolina 28403 (910) 791-6707 (O) (910) 791-6706 (F) NC License #: C-2846

GENERAL NOTES WILMINGTON THREE PHASE A CITY OF WILMINGTON NORTH CAROLINA

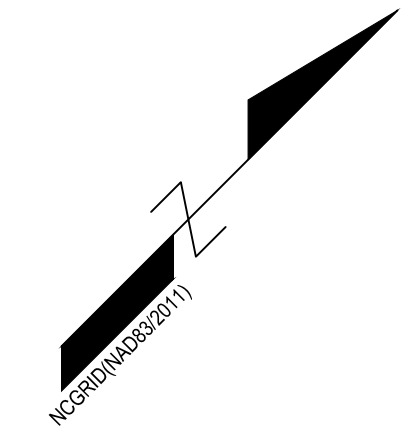
PROJECT STATUS: CONCEPTUAL LAYOUT, PRELIMINARY LAYOUT, RELEASED FOR CONSTRUCTION

DRAWING INFORMATION: DATE, DESIGNED, CHECKED, DRAWN, REVISIONS

Professional Seal redacted on electronic copy per City of Wilmington Policy C-1.0 PEI JOB#: 20195.PE



MATCH LINE - SEE SHEET C-1.3



BREEZEWOOD
PID: 06500-003-098-000
CB 11, PG 30
ZONING: MF-M (SD)
USE: MF RESIDENTIAL

BREEZEWOOD
6500-003-097-000
CB 11, PG 47
ZONING: MF-M (SD)
USE: MF RESIDENTIAL

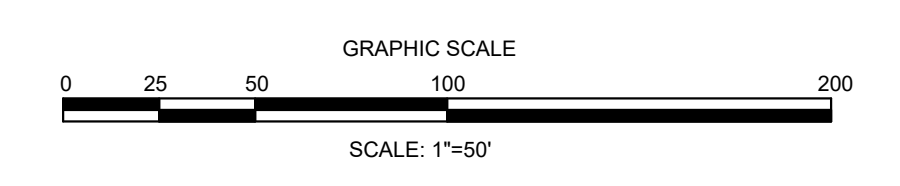
SUMMERLIN FALLS SEC. 15
PID: 06520-012-001-000
MB 42, PG 31
ZONING: MF-L (SD)
USE: MF RESIDENTIAL

SUMMERLIN FALLS SEC. 16
PID: 06520-012-001-000
MB 44, PG 137
ZONING: MF-L (SD)
USE: MF RESIDENTIAL

SUMMERLIN FALLS SEC. 17
PID: 06520-012-001-000
MB 45, PG 106
ZONING: MF-L (SD)
USE: MF RESIDENTIAL

SUMMERLIN FALLS SEC. 20
PID: 06520-012-001-000
MB 46, PG 69
ZONING: MF-M (SD)
USE: MF RESIDENTIAL

GEORGE ANDERSON
(60' PUBLIC R.O.W.)



NO.	DATE	REVISIONS

CLIENT INFORMATION:
**CK WILMINGTON
THREE PHASE A, LLC**
CHARLOTTE, NC

PARAMOUNTE
ENGINEERING INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6760 (F)
NC License #: C-2846

SITE INVENTORY PLAN
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

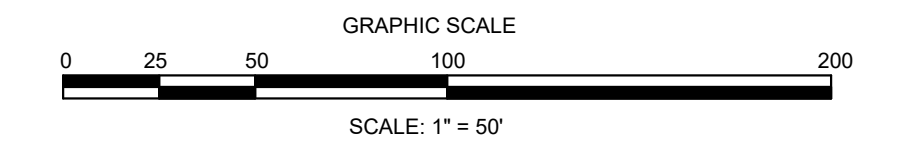
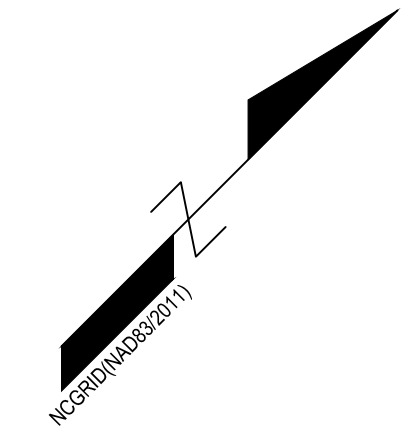
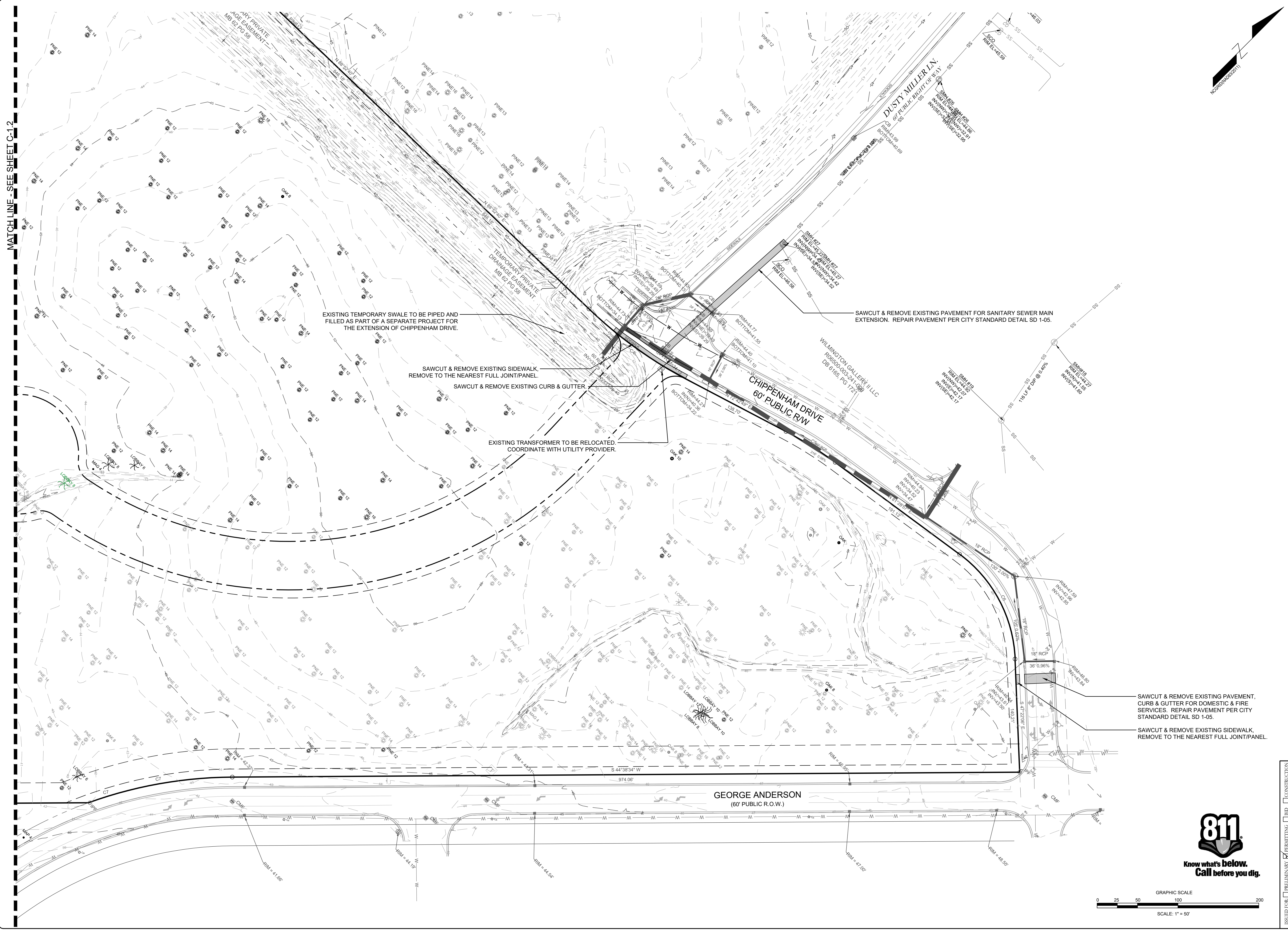
PROJECT STATUS:
DESIGN LAYOUT: PERMITTING: CONSTRUCTION:
ORIGINAL LAYOUT:
FINAL DESIGN LAYOUT:
RELEASED FOR CONSTRUCTION:
DRAWING INFORMATION:
DATE: 03/25/21
SCALE: 1"=50'
DRAWN BY: [Signature]
CHECKED: [Signature]

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-1.2
PEI JOB#: 20195.PE

ISSUED FOR: PRELIMINARY PERMITTING CONSTRUCTION

MATCH LINE - SEE SHEET C-12



REVISIONS:

CLIENT INFORMATION:

CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNT
ENGINEERING INC.

122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6760 (F)
NC License #: C-2846

SITE INVENTORY PLAN

WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS:

PRELIMINARY LAYOUT: PERMITTING: CONSTRUCTION:
 FINAL DESIGN:
 DATE: 03/26/21
 SCALE: 1" = 50'
 DRAWN BY: [blank]
 CHECKED: [blank]

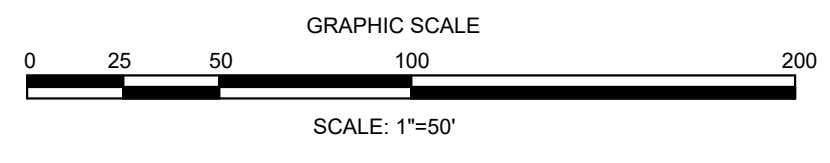
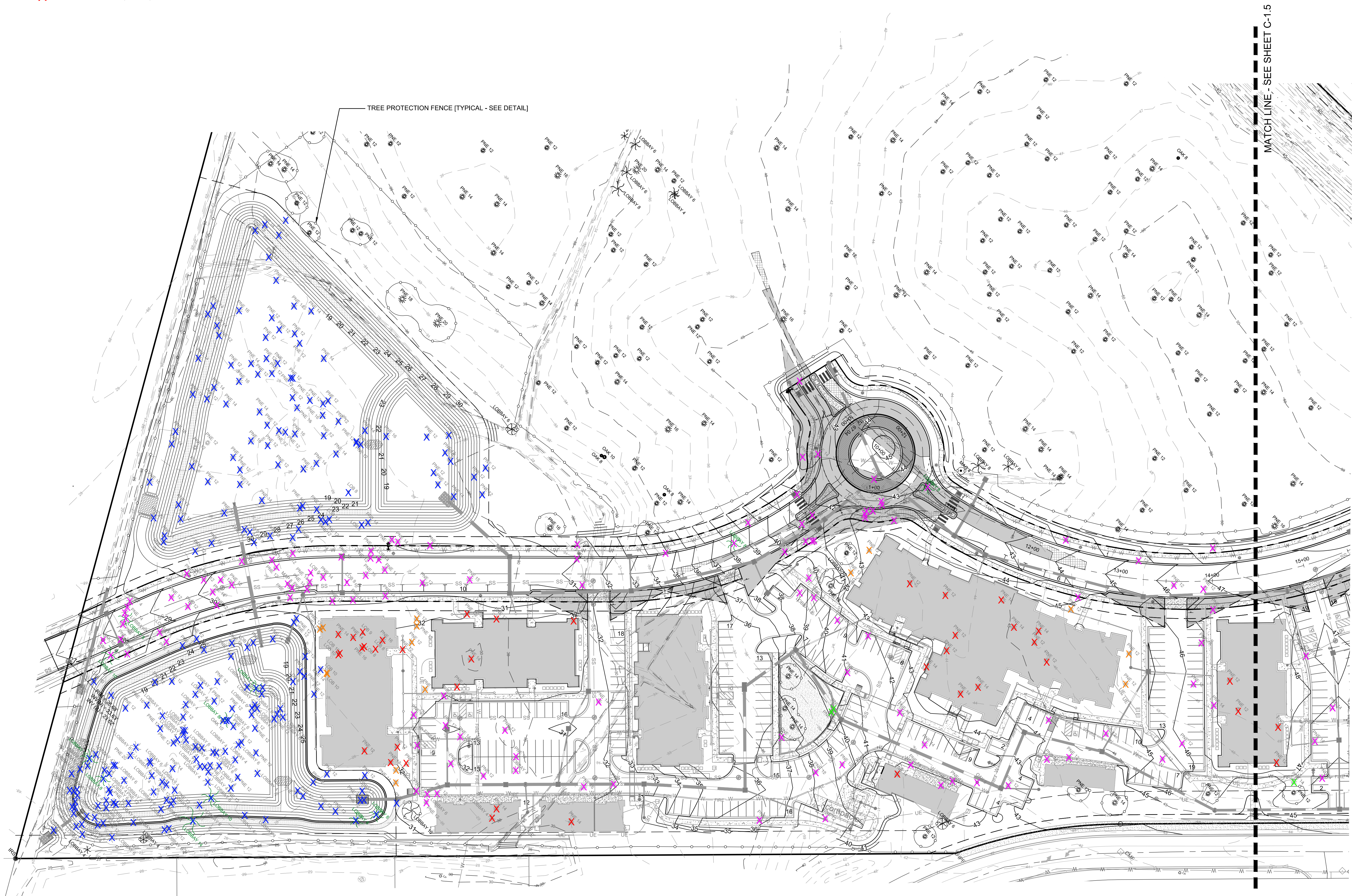
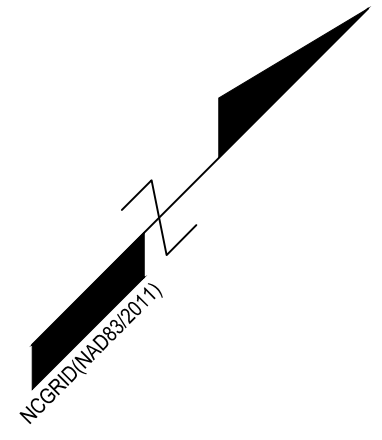
Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-1.3

PEI JOB#: 20195.PE

LEGEND:

- ✕ TREE TO BE REMOVED (ROADWAY/PARKING)
- ✕ TREE TO BE REMOVED (GRADING)
- ✕ TREE TO BE REMOVED (STORMWATER)
- ✕ TREE TO BE REMOVED (UTILITIES)
- ✕ TREE TO BE REMOVED (BUILDING)



REVISIONS:

NO.	DATE	DESCRIPTION

CLIENT INFORMATION:

PARAMOUNTE
ENGINEERING INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6760 (F)
NC License #: C-2846

TREE REMOVAL PLAN
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS

ORIGINAL LAYOUT:
FINAL DESIGN:
RELEASED FOR CONSTRUCTION:

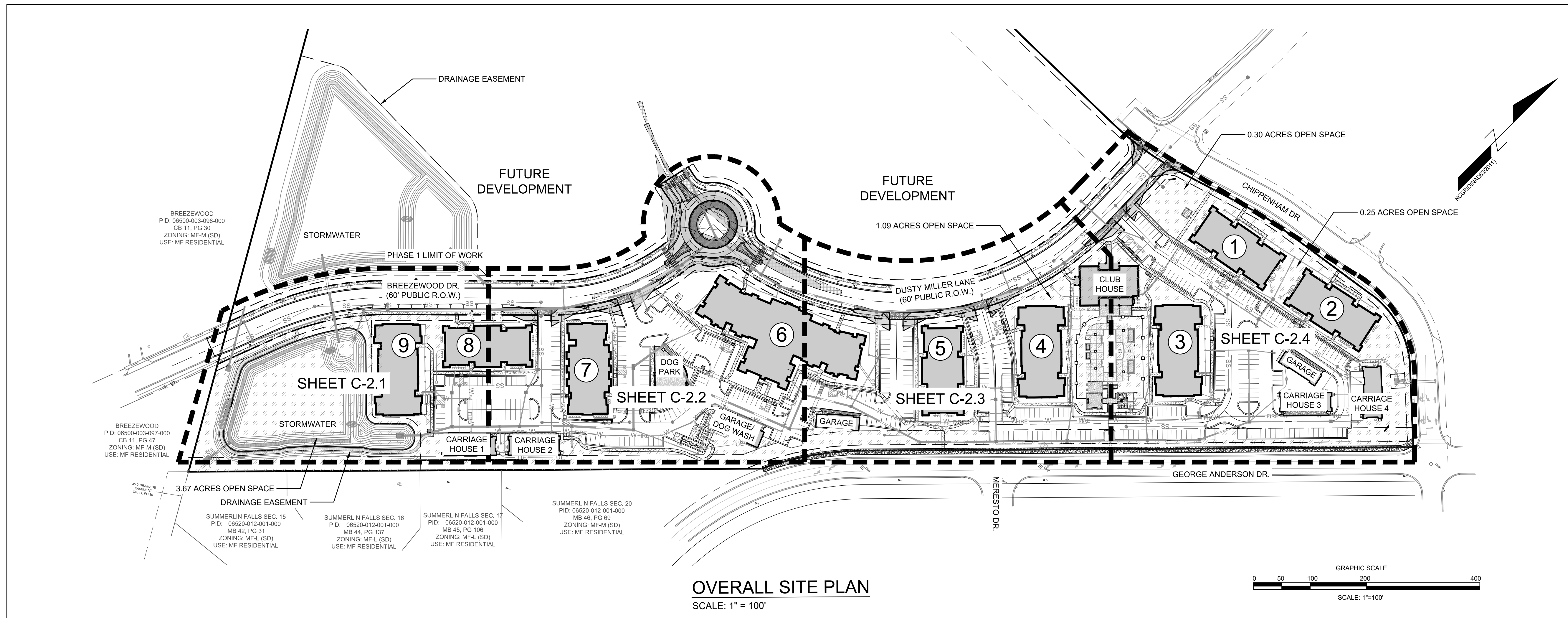
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Wilmington Policy

C-1.4

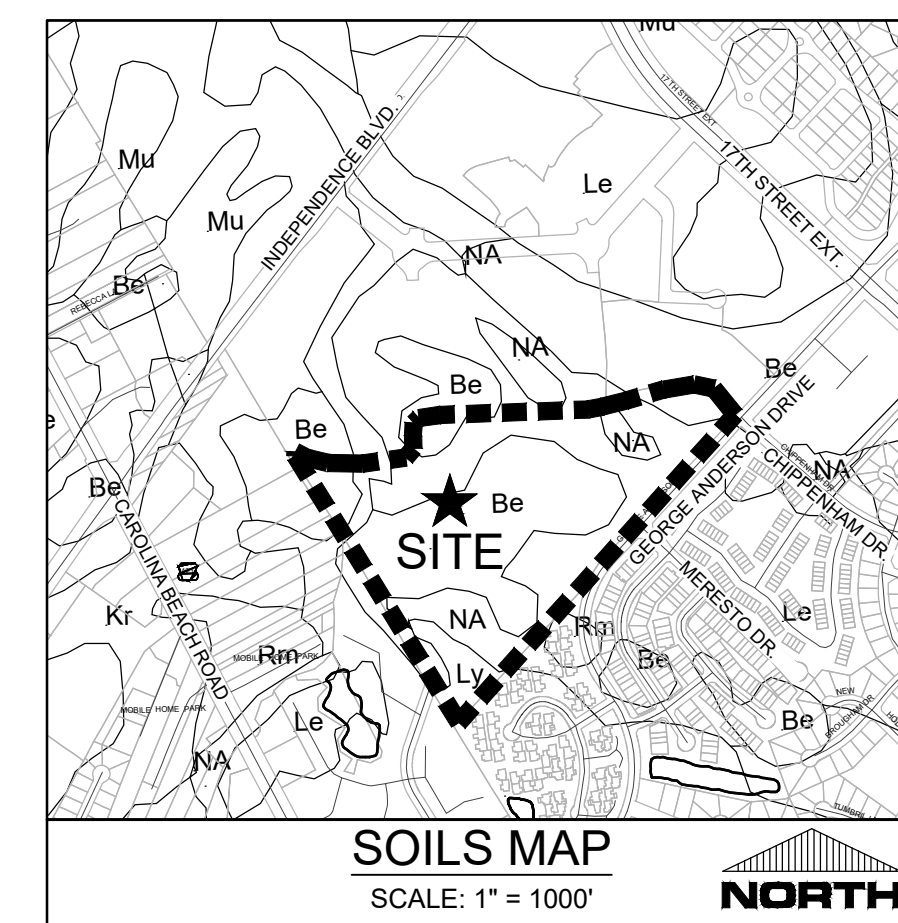
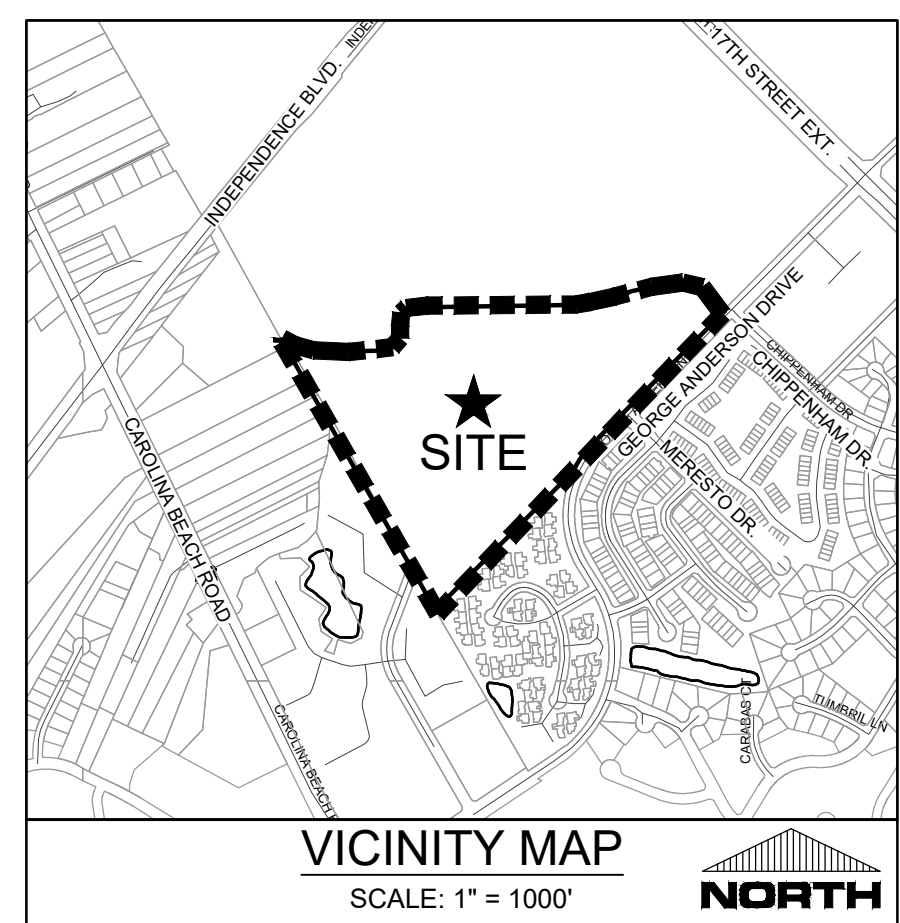
PEI JOB#: 20195.PE

ISSUED FOR: PRELIMINARY PERMITTING CONSTRUCTION

DRAWING INFORMATION
DATE: 03.25.21
SCALE: 1"=50'
DRAWN BY: DF
CHECKED: DF



OVERALL SITE PLAN
SCALE: 1" = 100'



SITE DATA INFORMATION

OWNER INFORMATION:
CAMERON PROPERTIES LAND CO LLC
1201 GLEN MEADE RD.
WILMINGTON, NC 28401

PROJECT ADDRESSES:
3743 INDEPENDENCE BLVD.
WILMINGTON, NC 28403

PARCEL IDENTIFICATION #: R08500-003-031-000
PARCEL PIN #: 3125-67-8501.000
RECORDED DEED BOOK: DB 006256 PG001725

ZONING: MF-M (CD)
EXISTING USE: VACANT LAND

PROPOSED USE: MULTIFAMILY RESIDENTIAL

TOTAL SITE AREA: 41.85 +/- ACRES
SITE AREA FOR PROPOSED PHASE: 17.61 +/- ACRES
SITE AREA FOR LOT A: 14.85 +/- ACRES

FLOOD INFORMATION:
PARCELS LOCATED IN FLOOD ZONE X, WHICH IS NOT A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD PANEL 3125 MAP NUMBER 33720312500K, DATED 8/28/2018

FEMA FLOODPLAIN NOTE:
CONSERVATION RESOURCES DISTRICT: POOISIN
OVERLAY ZONE: S 17TH / INDEPENDENCE BLVD.
CAMA AREAS OF ENVIRONMENTAL CONCERNS: NONE
CAMA FUTURE LAND USE: URBAN

EXISTING HISTORIC AND ARCHAEOLOGICAL SITES: NONE
EXISTING WETLANDS: NONE
EXISTING SURFACE WATERS: NONE

IMPERVIOUS CALCULATIONS

EXISTING IMPERVIOUS:	
BUILDINGS:	0 SF
PAVED AREAS:	0 SF
SIDEWALKS:	0 SF
TOTAL EXISTING IMPERVIOUS:	0 SF
PROPOSED IMPERVIOUS:	
BUILDING:	143,965 SF
ROADS:	81,770 SF
PARKING:	171,071 SF
SIDEWALKS:	63,610 SF
FUTURE MISC:	724,324 SF
TOTAL PROPOSED IMPERVIOUS:	1,184,740 SF
PERCENT OF PROPOSED IMPERVIOUS: 65%	

PARKING CALCULATIONS

RESIDENTIAL PARKING REQUIREMENTS
MINIMUM PARKING SPACES REQUIRED:
0-1 BEDROOMS = 1.5 SPACES PER UNIT
2 BEDROOMS = 2 SPACES PER UNIT
3+ BEDROOMS = 2.5 SPACES PER UNIT

MAXIMUM PARKING SPACES ALLOWED:
2.5 PARKING SPACES PER UNIT

REQUIRED MINIMUM PARKING
0-1 BEDROOMS = 121 X 1.5 = 182 SPACES
2 BEDROOMS = 149 X 2 = 298 SPACES
3+ BEDROOMS = 16 X 2.5 = 40 SPACES
TOTAL MINIMUM PARKING SPACES REQUIRED = 520 SPACES

MAXIMUM PARKING SPACES ALLOWED:
2.5 PARKING SPACES PER UNIT
286 UNITS X 2.5 = 715 MAX. ALLOWABLE PARKING SPACES

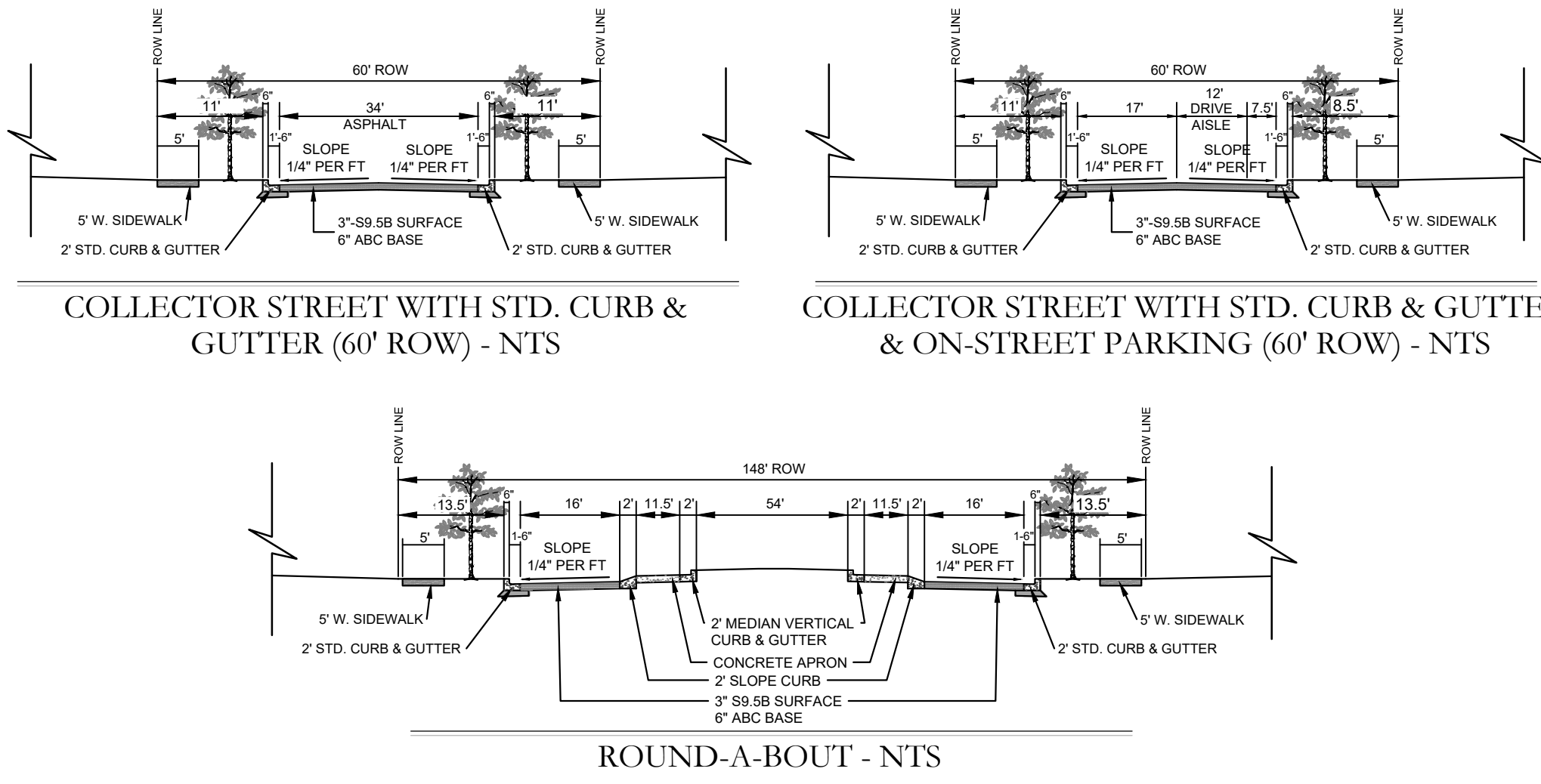
OFF-STREET PARKING PROVIDED = 499 SPACES
ON-STREET PARKING PROVIDED = 22 SPACES
TOTAL PARKING PROVIDED = 521 SPACES

HANDICAP SPACES REQUIRED = 11 SPACES
HANDICAP SPACES PROVIDED = 22 SPACES

BICYCLE PARKING REQUIREMENTS
BICYCLE PARKING SPACES REQUIRED = 20 SPACES
BICYCLE PARKING SPACES PROVIDED = 20 SPACES

PROPOSED USES:

BUILDING 1: 3- STORY (38'-6") (TYPE V-A SPRINKLED) 10,625 SF FOOTPRINT 30,672 GFA	(12) 1-BEDROOM (12) 2-BEDROOM 24 UNITS TOTAL	BUILDING 8: 3- STORY (38'-6") (TYPE V-A SPRINKLED) 10,625 SF FOOTPRINT 30,672 GFA	(12) 1-BEDROOM (12) 2-BEDROOM 24 UNITS TOTAL
BUILDING 2: 3- STORY (38'-6") (TYPE V-A SPRINKLED) 10,625 SF FOOTPRINT 30,672 GFA	(12) 1-BEDROOM (12) 2-BEDROOM 24 UNITS TOTAL	BUILDING 9: 3- STORY (37'-8") (TYPE V-A SPRINKLED) 12,094 SF FOOTPRINT 34,935 GFA	(24) 2-BEDROOM 24 UNITS TOTAL
BUILDING 3: 3- STORY (37'-8") (TYPE V-A SPRINKLED) 12,094 SF FOOTPRINT 34,935 GFA	(24) 2-BEDROOM 24 UNITS TOTAL	CARRIAGE HOUSES #1 - #4: 2-STORY (28'-6") (TYPE V-B SPRINKLED) 2,820 SF FOOTPRINT 5,236 GFA	(2) 2-BEDROOM EACH [8 TOTAL]
BUILDING 4: 3- STORY (37'-8") (TYPE V-A SPRINKLED) 12,094 SF FOOTPRINT 34,935 GFA	(24) 2-BEDROOM 24 UNITS TOTAL	CLUBHOUSE: 2-STORY (29') (TYPE V-B SPRINKLED) 7,506 SF FOOTPRINT 10,132 GFA	
BUILDING 5: 3- STORY (38'-6") (TYPE V-A SPRINKLED) 10,625 SF FOOTPRINT 30,672 GFA	(12) 1-BEDROOM (12) 2-BEDROOM 24 UNITS TOTAL	POOL PAVILION: 1-STORY (11') (TYPE V-B)	
BUILDING 6: 4- STORY (54') (TYPE V-A SPRINKLED) 27,255 SF FOOTPRINT TOTAL 107,190 GFA	(49) 1-BEDROOM (15) 2-BEDROOM (16) 3-BEDROOM (80) UNITS	DOG SPA / MAINT.: 1-STORY (11') (TYPE V-B)	
BUILDING 7: 3- STORY (40') (TYPE V-A SPRINKLED) 11,454 SF FOOTPRINT 32,508 GFA	(24) 1-BEDROOM (6) 2-BEDROOM 30 UNITS TOTAL	TOTALS: 1-BEDROOM = 121 UNITS 2-BEDROOM = 149 UNITS 3-BEDROOM = 16 UNITS	



DWELLING UNITS*

ACREAGE = 28.62 (ELEMENT AT BARCLAY) + 17.61 = 46.23 +/- ACRES
UNITS = 402 (ELEMENT AT BARCLAY) + 286 = 688 (16 UNITS PER ACRE)
*UNITS PER ACRE REQUIREMENTS IS PROPOSED TO BE A COMBINATION OF THE MF-M ZONING ACREAGE AND BARCLAY WEST APARTMENT DEVELOPMENTS. ELEMENT AT BARCLAY INFORMATION TAKEN FROM HDS PLANS DATED 8.28.16 AND APPROVED 9.1.16.

DIMENSIONAL REQUIREMENTS

REQUIREMENTS	PROVIDED
MINIMUM LOT AREA:	20,000 SF
MINIMUM LOT WIDTH:	150'
MAXIMUM LOT COVERAGE:	30%
MINIMUM FRONT SETBACK:	35'
MINIMUM REAR SETBACK:	25'
MINIMUM SIDE SETBACK:	20'
MAXIMUM BUILDING HEIGHT:	35'
	VARIES - SEE BLDG INFO

*ADDITIONAL SETBACK PROVIDED FOR BUILDING HEIGHTS GREATER THAN 35' IN ACCORDANCE WITH SEC. 18-184(f)(2)

DISTURBED AREA (PHASE 1)

PROPOSED DISTURBED AREA 21.75 +/- ACRES

BUILDING LOT COVERAGE (PHASE 1)

TOTAL PROPOSED BUILDING SF 143,865 SF
LOT COVERAGE PERCENTAGE 22.3%

OPEN SPACE (PHASE 1 | TRACT A)

REQUIRED OPEN SPACE (35%) 5.20 ACRES
TOTAL PROPOSED OPEN SPACE 5.31 ACRES

REVISIONS:

CLIENT INFORMATION:

PARAMOUNT ENGINEERING
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6760 (F)
NC License #: C-2846

OVERALL SITE PLAN AND SITE DATA INFORMATION
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

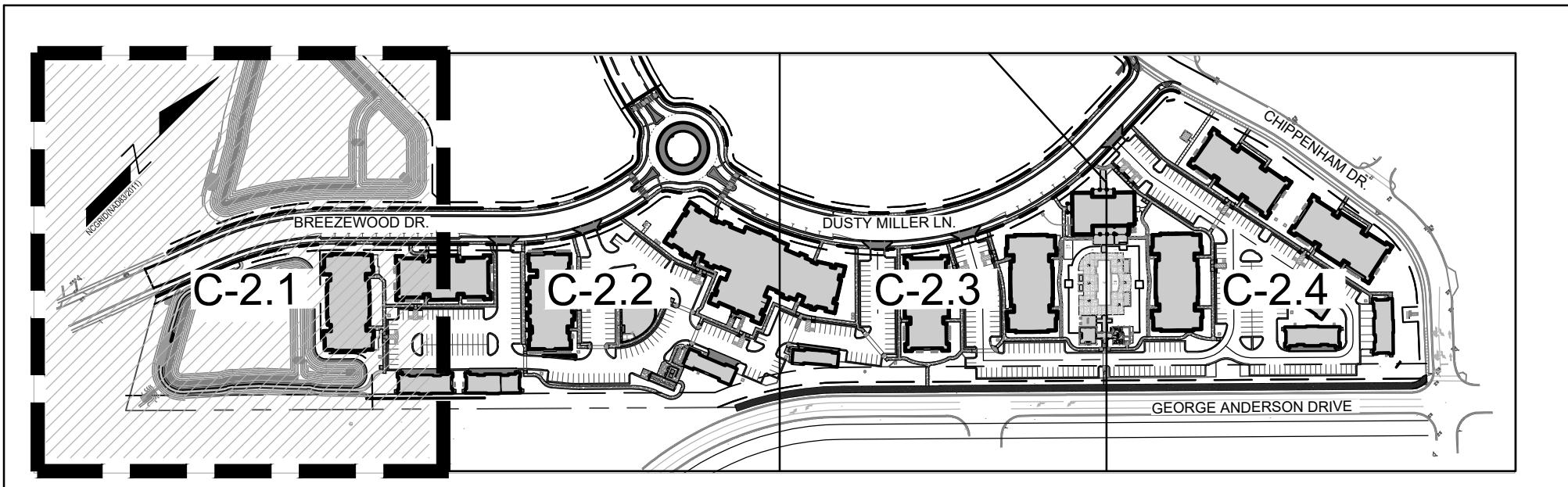
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PERMITTING: []
CONSTRUCTION: []

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copy per City of
Wilmington Policy

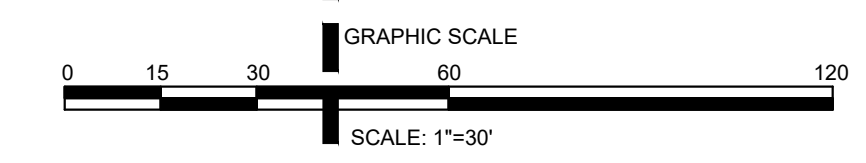
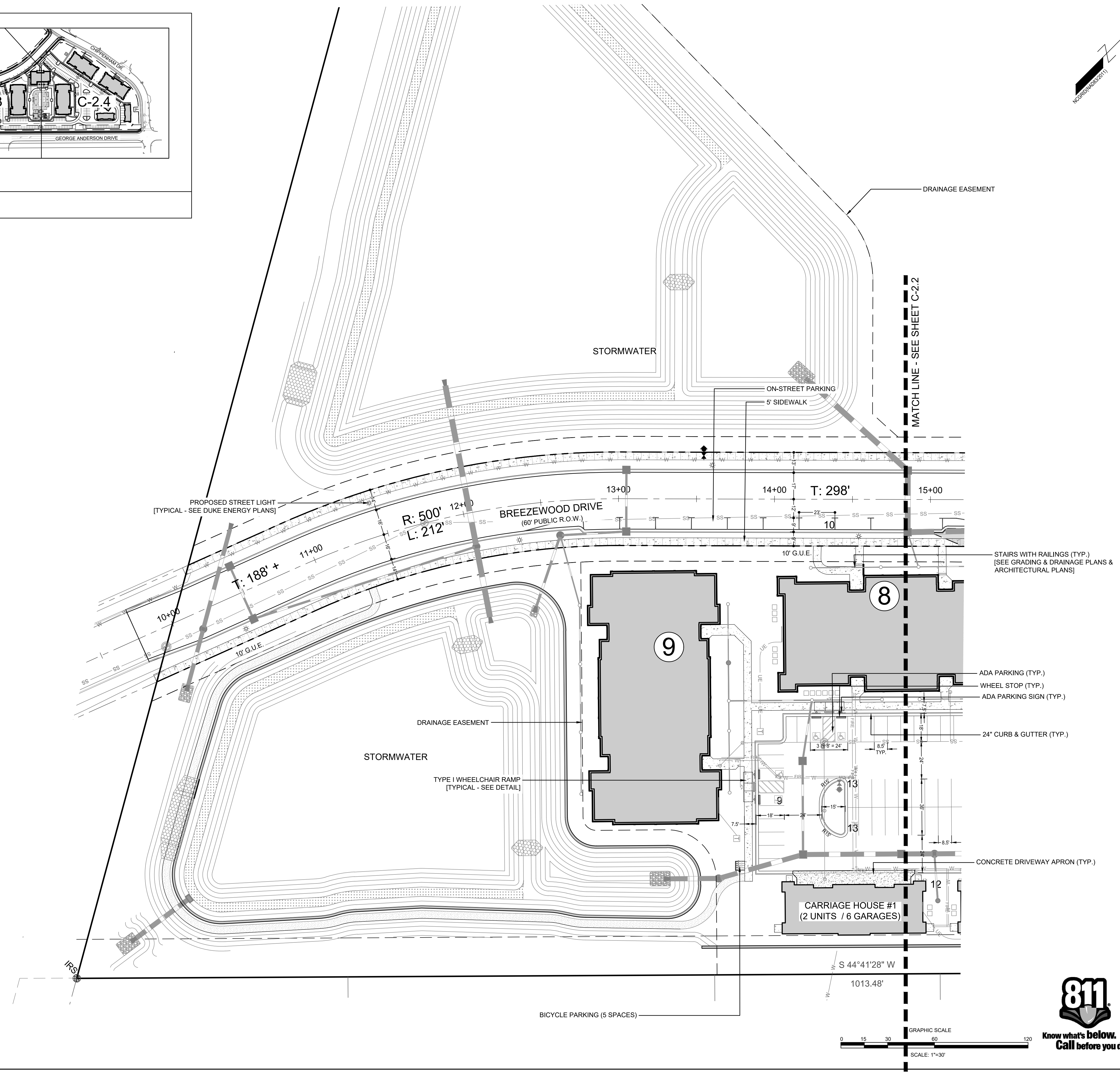
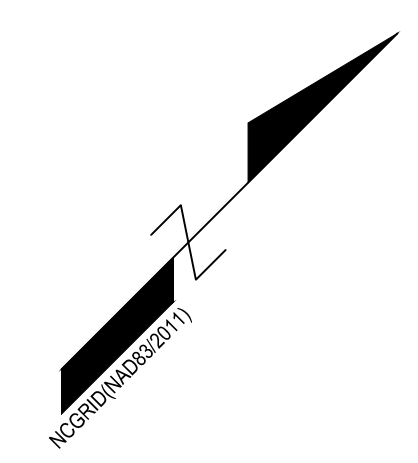
C-2.0

PEI JOB#: 20195.PE





KEY MAP
SCALE: 1" = 250'



REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNTE
ENGINEERING INC.
122 Cinema Drive
Wilmington, North Carolina 28403
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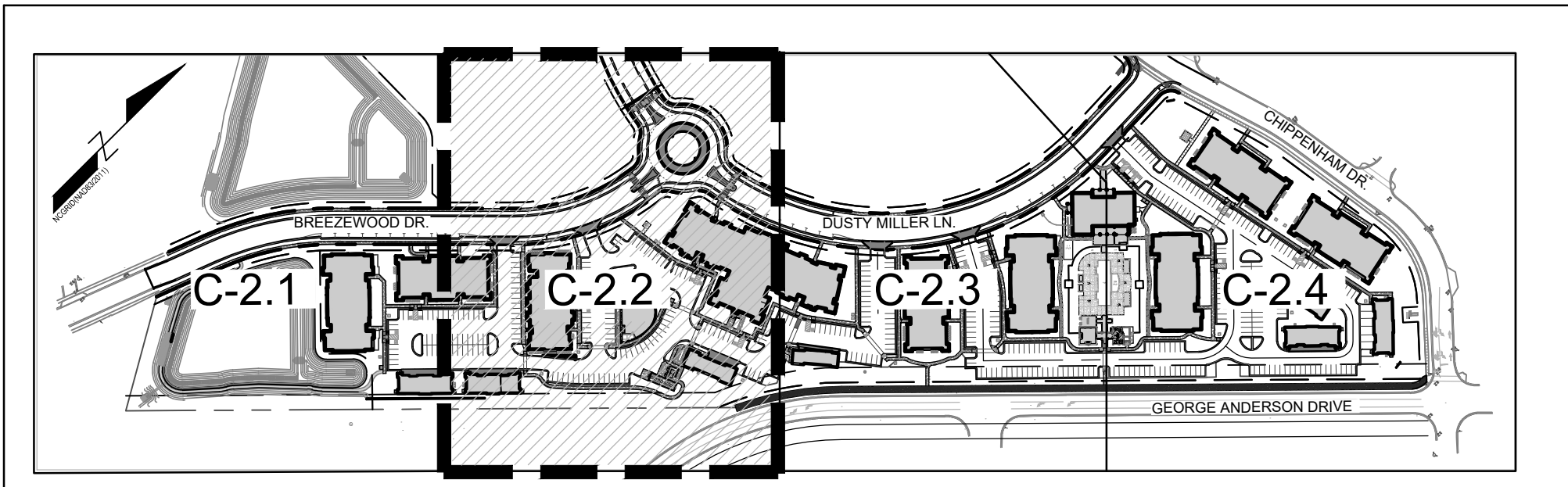
SITE PLAN
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS:
 PRELIMINARY
 PERMITTING
 CONSTRUCTION
 DRAWING INFORMATION:
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 SCALE: 1" = 30'
 DRAWN BY: [Name]
 CHECKED: [Name]

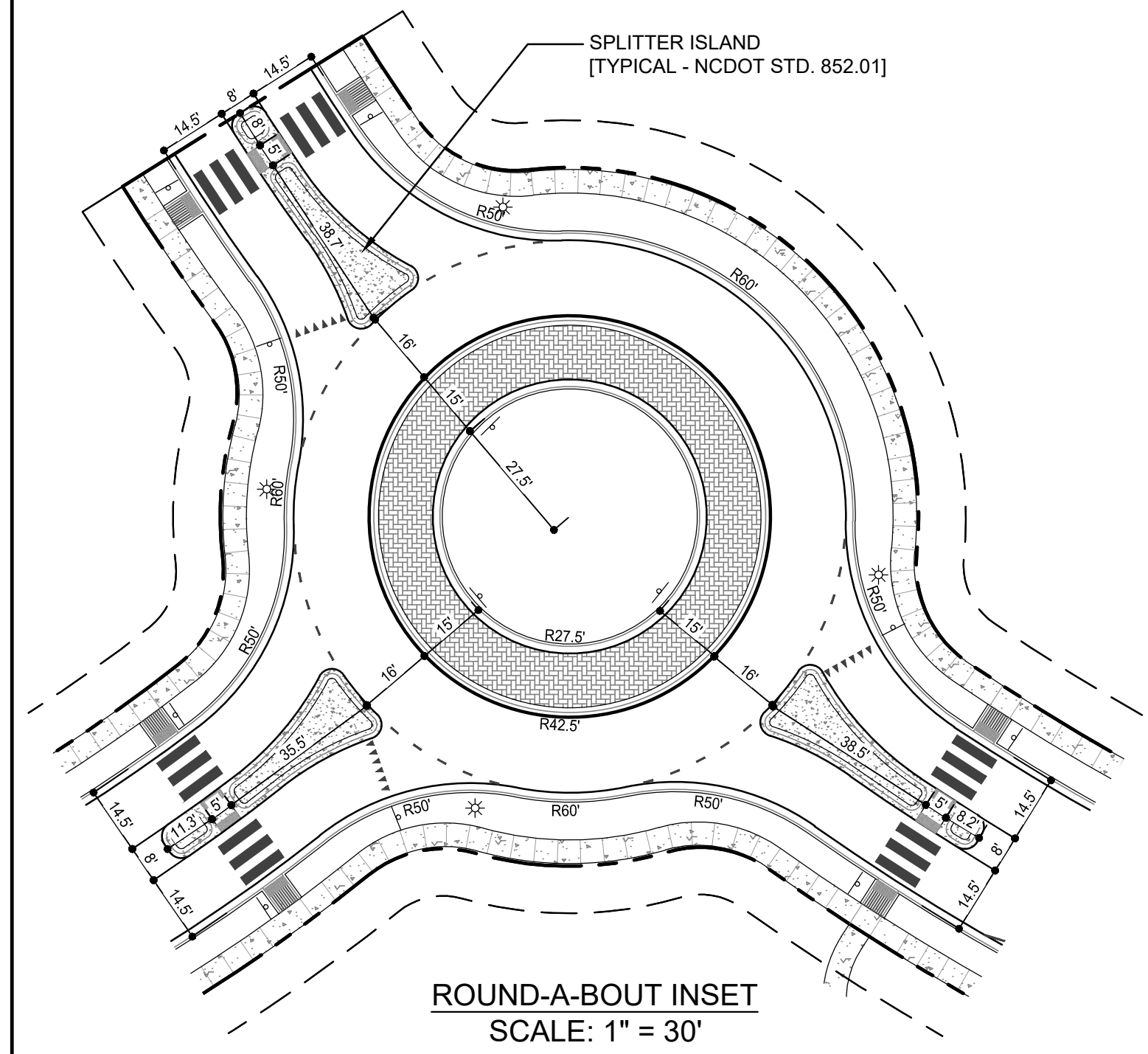
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Wilmington Policy

C-2.1

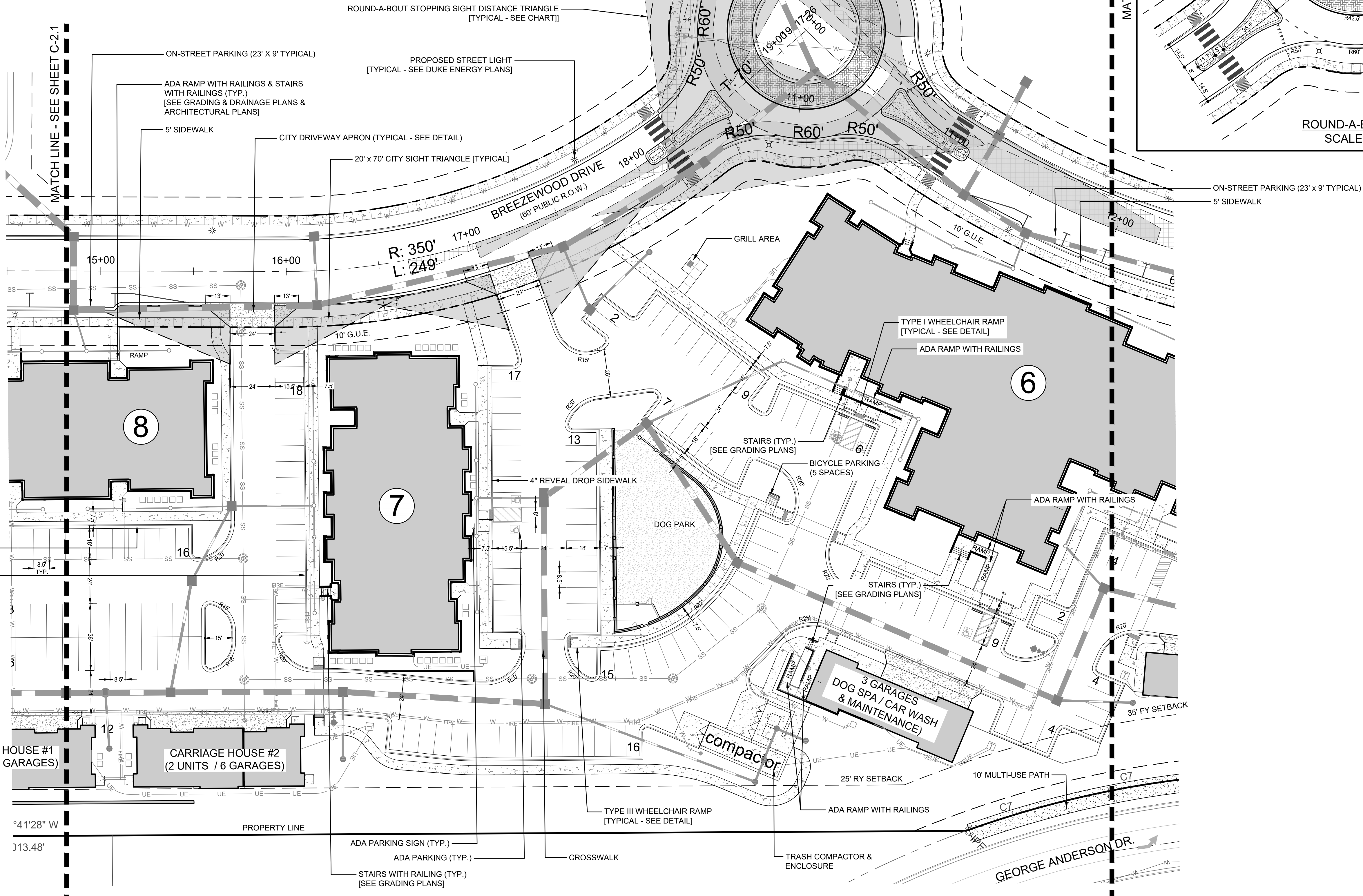
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KEY MAP
SCALE: 1" = 250'

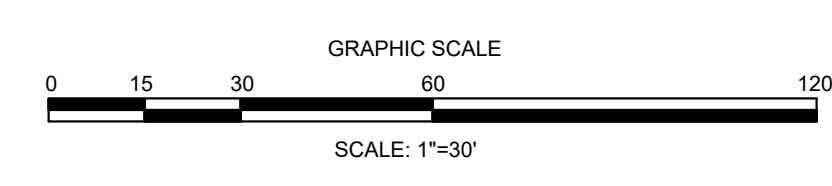


ROUND-A-BOUT INSET
SCALE: 1" = 30'



ROUND-A-BOUT DESIGN INFORMATION:

Roadway	Design Vehicle	Design Speeds (mph)			Measurements (ft)		Sight Distances (ft)		
		Entry	Circulating	Exit	Central Island, Dia.	Inscribed Circle, Dia.	Stopping on Approach	on Circulatory Roadway	Intersection
BreezeWood Stone Crop Dusty Miller Roundabout	WB-50	25	15	15	55	117	152.7	109	190.1
Stone Crop to BreezeWood									94
BreezeWood to Dusty Miller									111
Dusty Miller to Stone Crop									160



REVISIONS:

CLIENT INFORMATION:

CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNTE
ENGINEERING INC.

122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6760 (F)
NC License #: C-2846

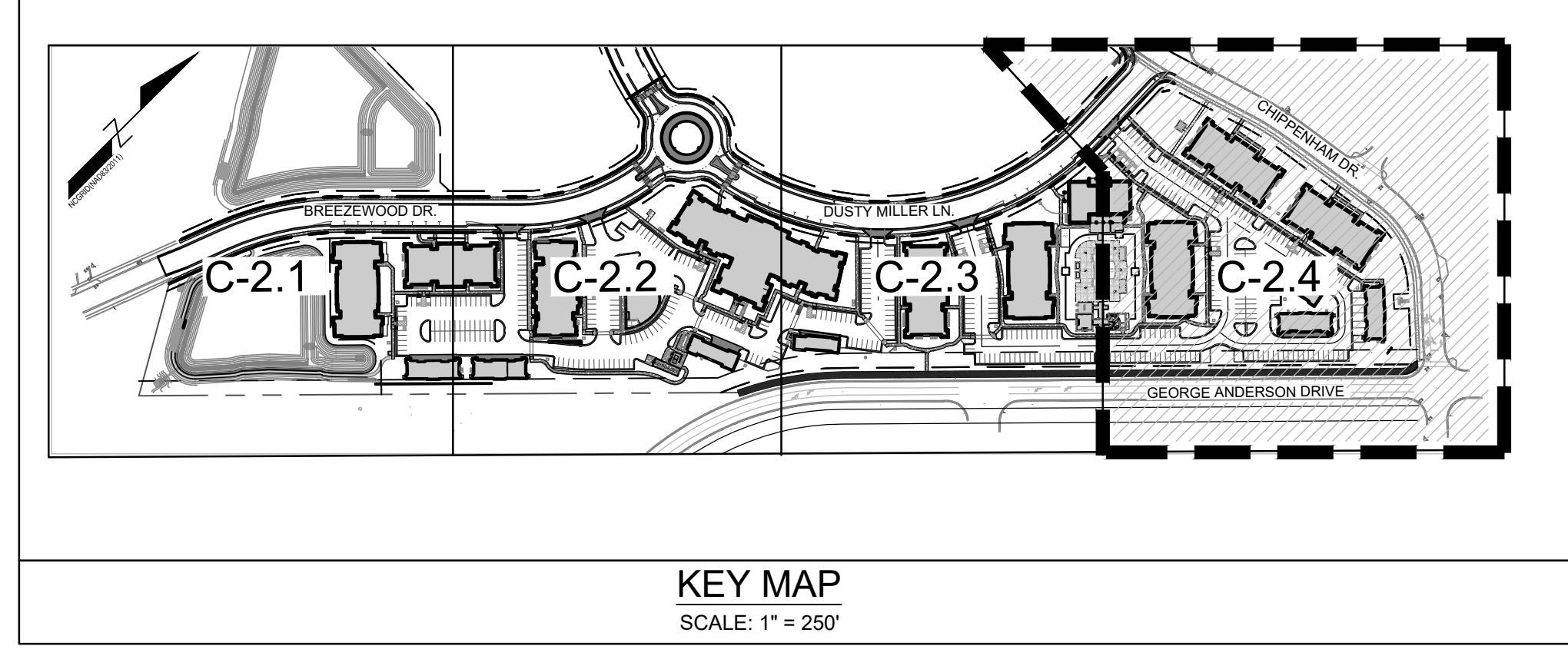
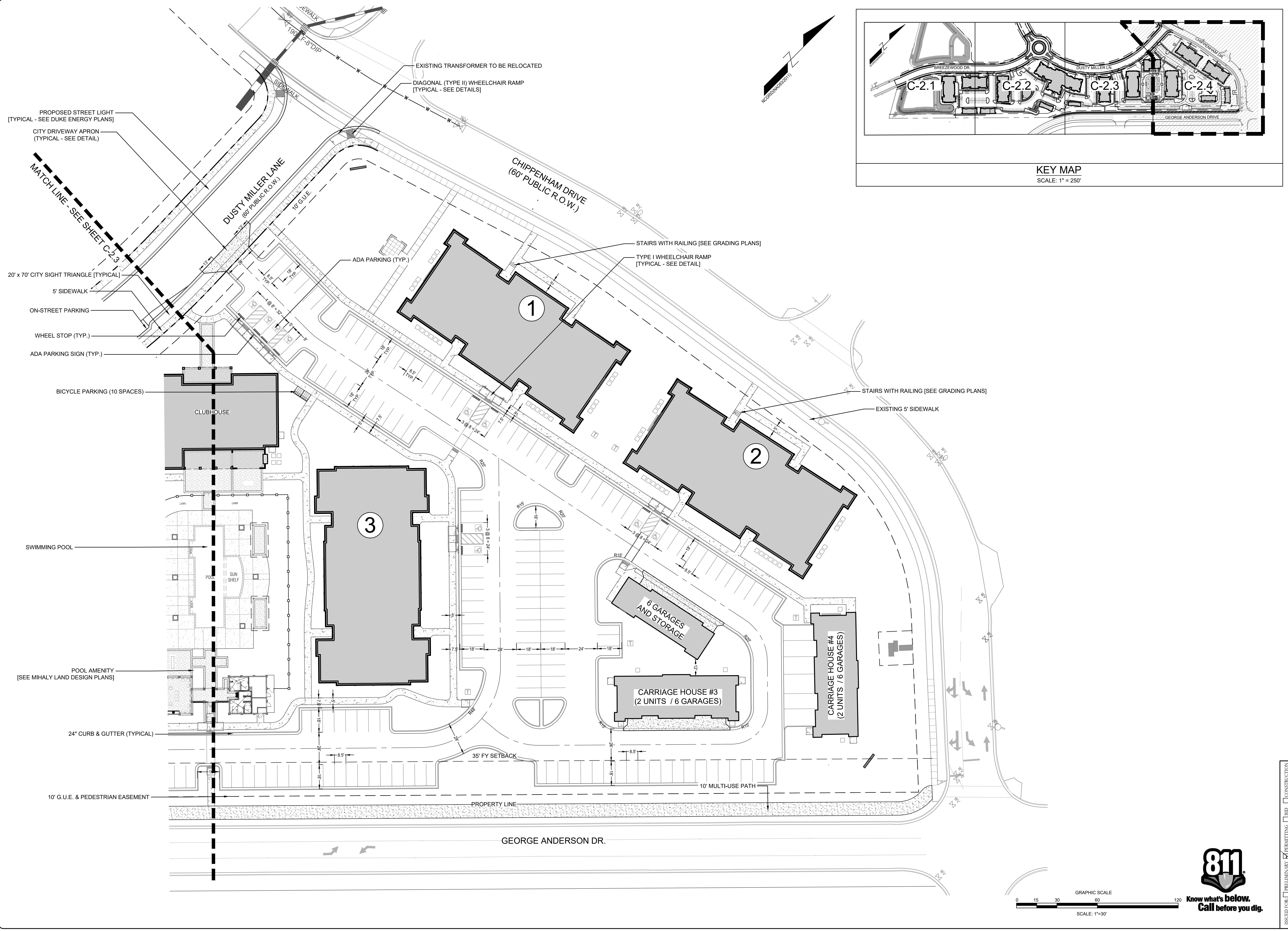
SITE PLAN
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS
PRELIMINARY LAYOUT: PERMITTING: CONSTRUCTION:
FINAL DESIGN LAYOUT:
RELEASED FOR CONSTRUCTION:

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-2.2

PEI JOB#: 20195.PE



REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

PARAMOUNTE
 ENGINEERING INC.
 122 Cinema Drive
 Wilmington, North Carolina 28403
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SITE PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

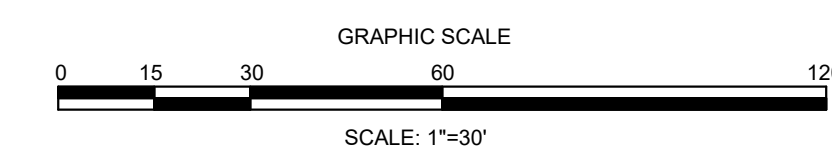
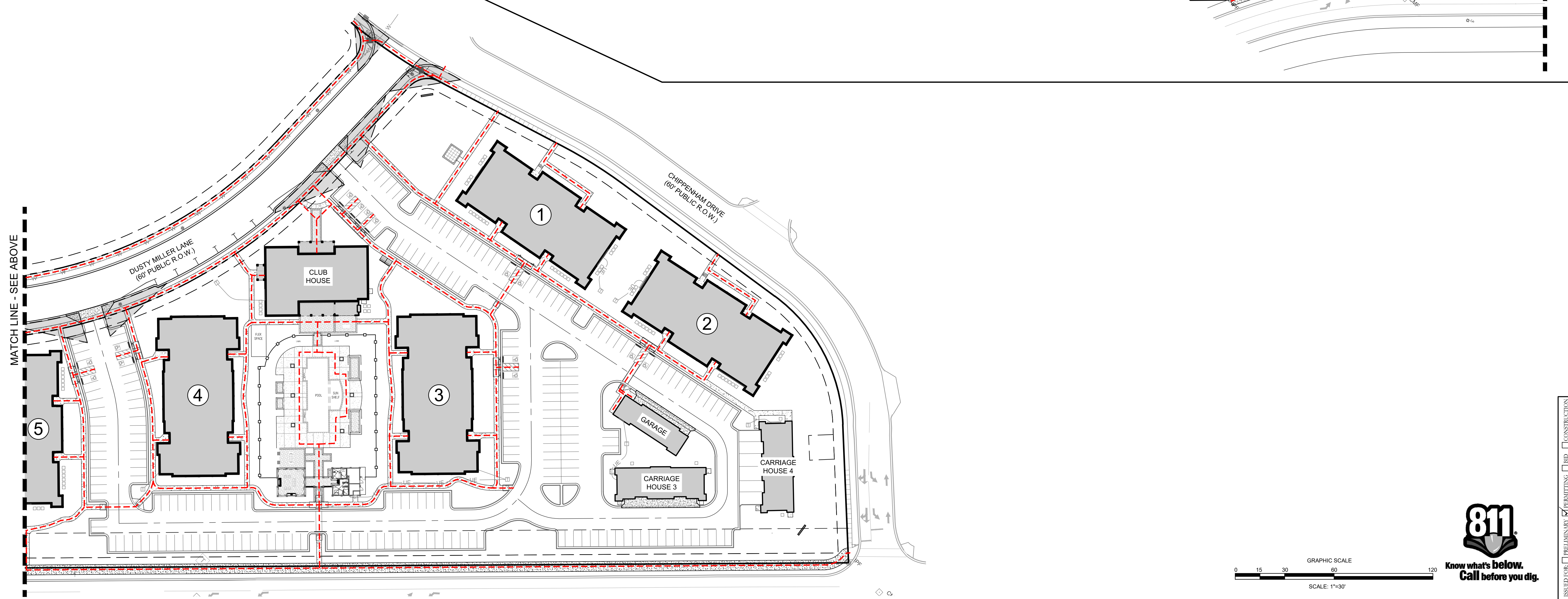
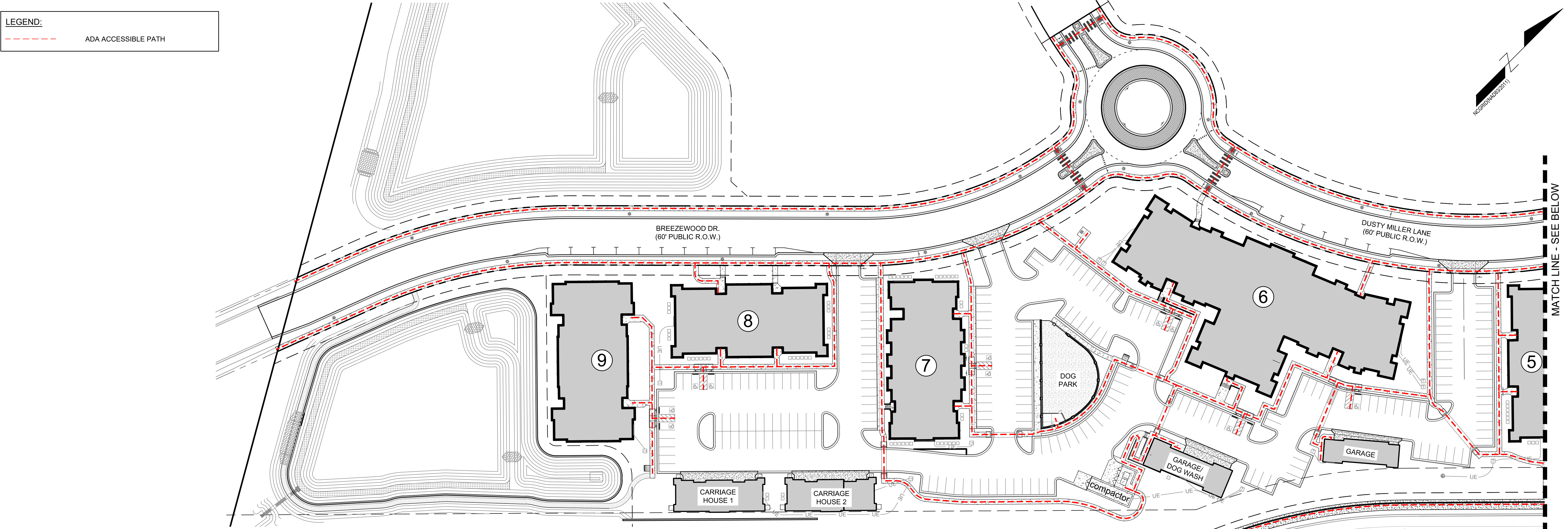
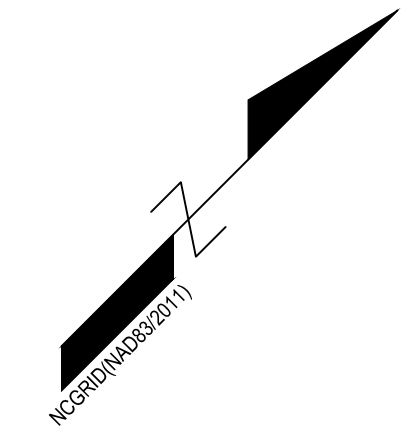
PROJECT STATUS:
 PRELIMINARY LAYOUT: PERMITTED: CONSTRUCTION:
 PRELIMINARY LAYOUT: FINAL DESIGN:
 DRAWING INFORMATION:
 DATE: 03.26.21
 SCALE: 1" = 30'
 DRAWN BY: [Name]
 CHECKED: [Name]

Professional Seal
 redacted on electronic
 copy per City of
 Wilmington Policy
C-2.4
 PEI JOB#: 20195.PE



ISSUED FOR: PRELIMINARY PERMITTING CONSTRUCTION

LEGEND:
 - - - - - ADA ACCESSIBLE PATH



REVISIONS:

CLIENT INFORMATION:

CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

PARAMOUNTE
 ENGINEERING

122 Cinema Drive
 Wilmington, North Carolina 28403
 (910) 791-6707 (O) (910) 791-6760 (F)
 NC License #: C-2846

ADA ACCESS PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

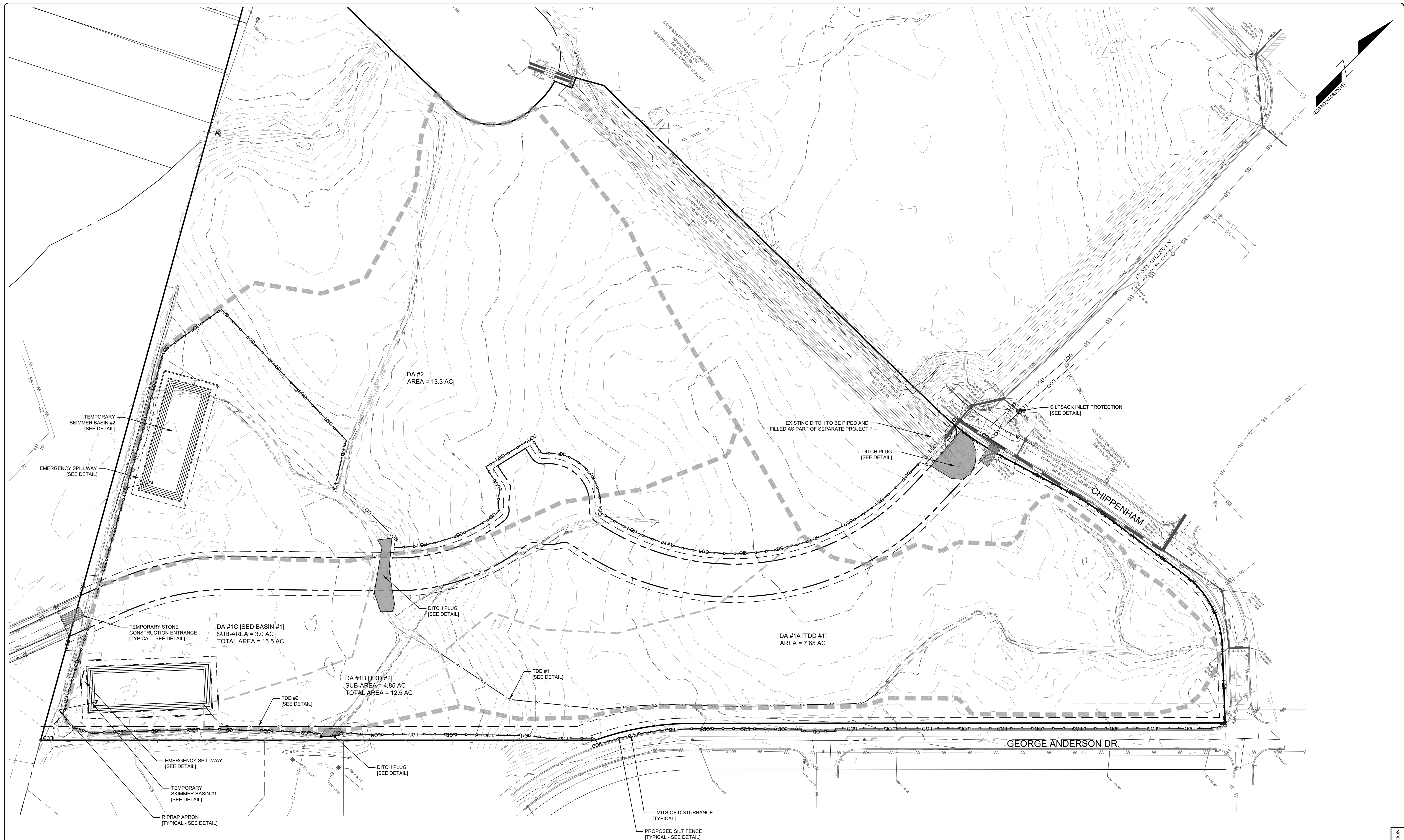
PROJECT STATUS:
 ORIGINAL LAYOUT:
 PRELIMINARY LAYOUT:
 FINAL DESIGN:
 RELEASED FOR CONSTRUCTION:

DRAWING INFORMATION:
 DATE: 03/26/21
 SCALE: 1" = 60'
 DRAWN BY: [blank]
 CHECKED: [blank]

Professional Seal
 redacted on electronic
 copy per City of
 Wilmington Policy

PEI JOB#: 20195.PE

ISSUED FOR: PRELIMINARY PERMITTING CONSTRUCTION



LEGEND

EXISTING CONTOUR	---
PROPOSED CONTOUR	---
LIMITS OF DISTURBANCE	---
PROPERTY BOUNDARY	---
WETLANDS	---
CONSTRUCTION ENTRANCE	---
RIP RAP APRON	---
SANITARY SEWER	---
TEMPORARY DIVERSION DITCH	---
WATTLE OR CHECK DAM	---
DRAINAGE AREA	---
SILT FENCE	---

EROSION CONTROL NOTES:

LIMITS OF DISTURBANCE = 21.75 ACRES

NOTES:

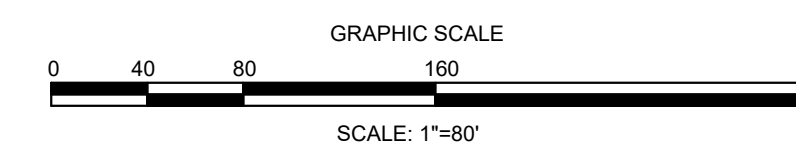
- 1) SEE GENERAL NOTES SHEET (C-1.0) FOR GRADING, DRAINAGE AND EROSION CONTROL NOTES AND DETAILS FOR MORE INFORMATION.
- 2) ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF WILMINGTON AND NEW HANOVER COUNTY STANDARDS AND SPECIFICATIONS.
- 3) GEOTECHNICAL TESTING HAS BEEN PERFORMED ON-SITE BY ECS CAROLINAS, LLP (REFER TO REPORT). A GEOTECHNICAL ENGINEER SHALL BE CONSULTED TO CONFIRM SUITABILITY OF SUBGRADE MATERIAL AND PROPER COMPACTION IN FILL AREAS.

ASPHALT AREA NOTE:

- 1) SITE CONTRACTOR SHALL STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL AND PROVIDE CUT/FILL OPERATIONS TO PROVIDE A COMPACTED CONTROLLED SUBGRADE, IN ACCORDANCE WITH THE SUBSURFACE GEOTECHNICAL EXPLORATION AND TECHNICAL SPECIFICATIONS.

BUILDING PAD NOTE:

- 1) SITE CONTRACTOR SHALL STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL AND PROVIDE CUT/FILL OPERATIONS TO PROVIDE A COMPACTED CONTROLLED BUILDING PAD, IN ACCORDANCE WITH THE SUBSURFACE GEOTECHNICAL EXPLORATION AND TECHNICAL SPECIFICATIONS.



REVISIONS:

02.17.21	1. PER NHC COMMENT
----------	--------------------

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNT
 ENGINEERING, INC.
 122 Cinema Drive
 Wilmington, North Carolina 28403
 (910) 791-6707 (O) (910) 791-6766 (F)
 NC License #: C-2846

EROSION CONTROL PLAN
PHASE I
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

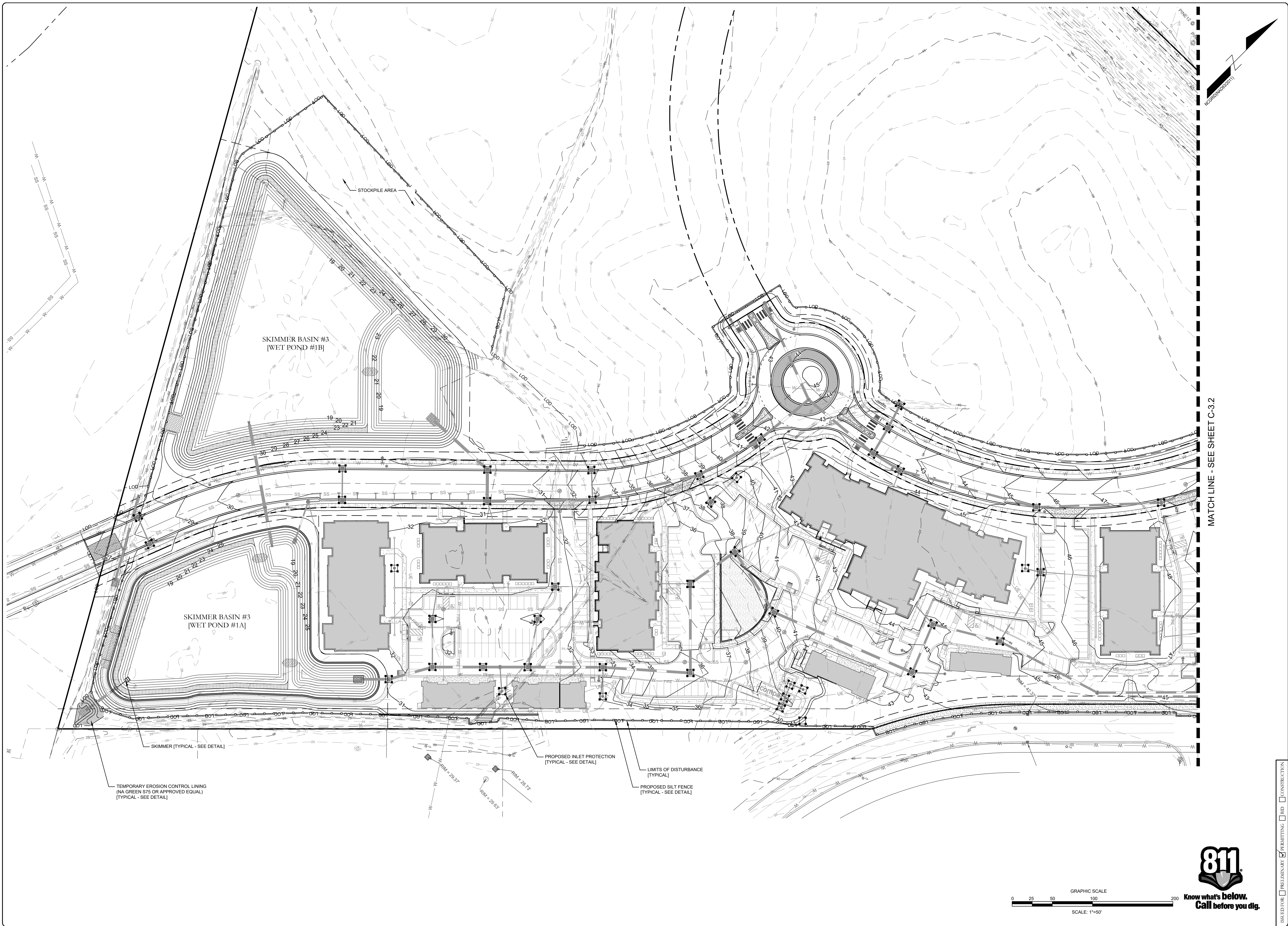
PROJECT STATUS:
 CONCEPTUAL LAYOUT:
 PRELIMINARY LAYOUT:
 RELEASED FOR CONST.:

DRAWING INFORMATION:
 DATE: 03.25.21
 DESIGNED: DF
 DRAWN: DF
 CHECKED: DF

Professional Seal redacted on electronic copy per City of Wilmington Policy

C-3.0

PEI JOB#: 20195.PE



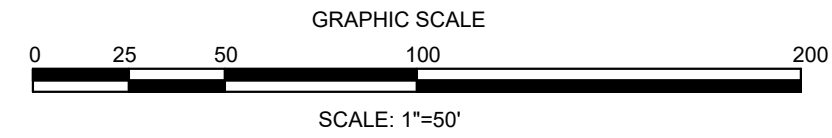
MATCH LINE - SEE SHEET C-3.2

TEMPORARY EROSION CONTROL LINING
(NA GREEN STS OR APPROVED EQUAL)
[TYPICAL - SEE DETAIL]

SKIMMER [TYPICAL - SEE DETAIL]

PROPOSED INLET PROTECTION
[TYPICAL - SEE DETAIL]

LIMITS OF DISTURBANCE
[TYPICAL]
PROPOSED SILT FENCE
[TYPICAL - SEE DETAIL]



ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

PROJECT STATUS
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST:

DRAWING INFORMATION
DATE: 03.25.21
1" OF
DESIGNED:
DRAWN:
CHECKED:

Professional Seal
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copy per City of
Wilmington Policy

C-3.1

PEI JOB#: 20195.PE

**EROSION CONTROL PLAN
PHASE II
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA**

PARAMOUNT
ENGINEERING, INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

CLIENT INFORMATION
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

REVISIONS:

1. PER NHC COMMENT

02.17.21

DRAINAGE NOTES:

- 1.) DRAINAGE EASEMENT AND STORMWATER SYSTEM MAINTENANCE IS THE RESPONSIBILITY OF THE DEVELOPER OR HOA, INCLUDING PONDS, PIPES, AND INFILTRATION BASINS AND TRENCHES.
- 2.) ALL IMPERVIOUS MUST DRAIN TO THE DESIGNED STORMWATER SYSTEM, PER THE APPROVED PLANS. LOTS / BUILDING PADS SHALL BE FILLED AS NECESSARY TO FACILITATE IMPERVIOUS DRAINAGE TO THE STORM CONVEYANCE SYSTEM AND SCM (STORMWATER CONTROL MEASURE).
- 3.) NO OBSTRUCTIONS ARE ALLOWED IN DRAINAGE EASEMENTS, INCLUDING FENCES.
- 4.) ALL STORM DRAINAGE STRUCTURES SHALL MEET NCDOT STANDARDS AND SPECIFICATIONS AND SHALL BE TRAFFIC RATED FOR H-20 LOADS AT A MINIMUM.
- 5.) ALL CATCH BASIN (CB) RIM ELEVATIONS AND YARD INLET (YI) THROAT ELEVATIONS ARE LISTED AS THE "GUTTER OF FLOWLINE ELEVATION" WITHIN THE CURB SECTION. THE CONTRACTOR SHALL MAINTAIN A UNIFORM EDGE OF PAVEMENT (EOP) WHEN PLACING THE STORM INLETS WITHIN THE CURB-LINE (SEE "CURB TRANSITION" DETAIL). FOR CATCH BASINS WITHIN A TRANSITION FROM 24" STANDARD CURB & GUTTER, THE RIM ELEVATION GIVEN IS 1" INCH BELOW EOP. FOR MODIFIED VALLEY, THE RIM ELEVATION GIVEN IS 1/2" INCH BELOW EOP.
- 6.) MANHOLE RIM ELEVATION SHOWN ABOVE IS FLUSH WITH PROPOSED GRADE. CONTRACTOR SHALL PROVIDE 6" CLEARANCE ABOVE PROPOSED GRADE WHEN PLACED IN A GRASS/PERVIOUS AREA, AND A FLUSH CONDITION WITH PROPOSED PAVEMENT OR IMPERVIOUS COVER.
- 7.) PROPOSED BUILDINGS SHALL DIVERT ROOF DRAINAGE TO STORMWATER COLLECTION SYSTEM.
- 8.) CONTRACTOR SHALL ADJUST ALL FRAMES OF EX. UTILITY INFRASTRUCTURE WITHIN ASPHALT OVERLAY AREAS TO MATCH PROPOSED GRADES.
- 9.) ALL EXISTING DITCHES AND OUTFALLS SHALL BE PROPERLY MAINTAINED AND FREE OF ALL VEGETATIVE DEBRIS OR ENCUMBRANCES.

BUILDING PAD NOTES:

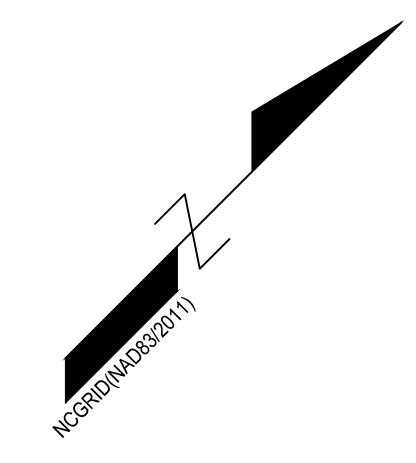
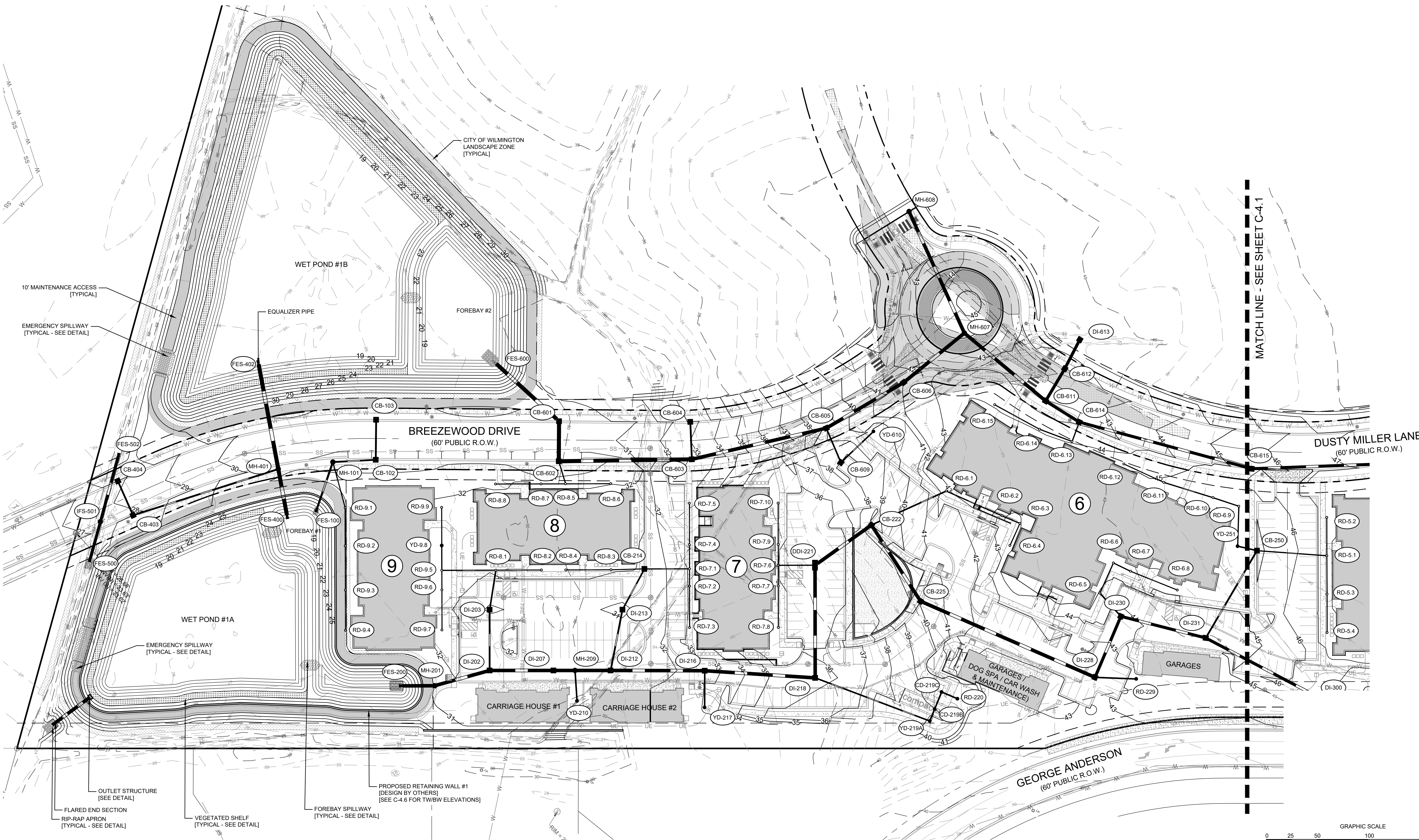
- 1.) SITE CONTRACTOR SHALL STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL AND PROVIDE CUT/FILL OPERATIONS TO PROVIDE A COMPACTED CONTROLLED BUILDING PAD, IN ACCORDANCE WITH THE SUBSURFACE GEOTECHNICAL EXPLORATION AND TECHNICAL SPECIFICATIONS.
- 2.) FUTURE MINIMUM BUILDING PAD REFERENCED PER TYPICAL LOT GRADING DETAIL ON SHEET C-4.0. MINIMUM BUILDING PAD ELEVATION SHOWN DOES NOT REFERENCE FFE. 100-YEAR FLOOD ELEVATION AND DRAINAGE AROUND BUILDING PAD SHALL BE USED IN SETTING FFE.

ASPHALT AREA NOTE:

- 1.) SITE CONTRACTOR SHALL STRIP TOPSOIL AND ANY UNSUITABLE MATERIAL AND PROVIDE CUT/FILL OPERATIONS TO PROVIDE A COMPACTED CONTROLLED SUBGRADE, IN ACCORDANCE WITH THE SUBSURFACE GEOTECHNICAL EXPLORATION AND TECHNICAL SPECIFICATIONS.

NOTATION:

CB	=	CATCH BASIN	[NCDOT STD. 840.02 840.03]
DCB	=	DOUBLE CATCH BASIN	
DI	=	DROP INLET	[NCDOT STD. 840.16 840.46]
DDI	=	DOUBLE DROP INLET	[NCDOT STD. 840.35]
EW	=	ENDWALL	[NCDOT STD. 838.80]
FES	=	FLARED END SECTION	
HW	=	HEADWALL	
IFS	=	INTERFERENCE STRUCTURE	
MH	=	STORM MANHOLE	[COW SD 2-03]
OS	=	OUTLET STRUCTURE	[SEE DETAILS SHEET]
YD	=	YARD DRAIN	[ADS NYLOPLAST]
YI	=	YARD INLET (2-SIDE OPEN THROAT)	[NCDOT STD. 840.04]
BC	=	BOTTOM OF CURB (GUTTER/FLOWLINE) ELEVATION	
BEE	=	BREEZEWAY ENTRANCE ELEVATION	
BW	=	BOTTOM OF WALL (BOTTOM OF EXPOSED WALL FACE AT GRADE TIE-IN ELEVATION)	
FFE	=	FINISHED FLOOR ELEVATION	
FLUME	=	CONCRETE DRAINAGE FLUME FLOWLINE ELEVATION	
GFE	=	GARAGE FLOOR ELEVATION	
HP	=	HIGH POINT ELEVATION	
LP	=	LOW POINT ELEVATION	
PAD	=	DUMPSTER PAD ELEVATION	
PG	=	PROPOSED GRADE	
RP	=	RAMP ELEVATION	
SW	=	SIDEWALK ELEVATION	
TC	=	TOP OF CURB ELEVATION	
TW	=	TOP OF WALL	



REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

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 (910) 791-6707 (O) (910) 791-6766 (F)
 NC License #: C-2846

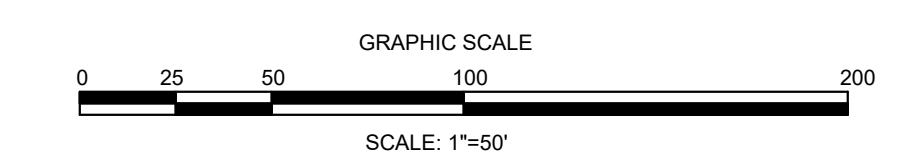
OVERALL GRADING AND DRAINAGE PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

PROJECT STATUS:
 CONCEPTUAL LAYOUT: PRELIMINARY PERMITTING BID CONSTRUCTION

DRAWING INFORMATION:
 DATE: 03.25.21
 DESIGNED: [Signature]
 DRAWN: [Signature]
 CHECKED: [Signature]

Professional Seal redacted on electronic copy per City of Wilmington Policy

C-4.0
 PEI JOB#: 20195.PE

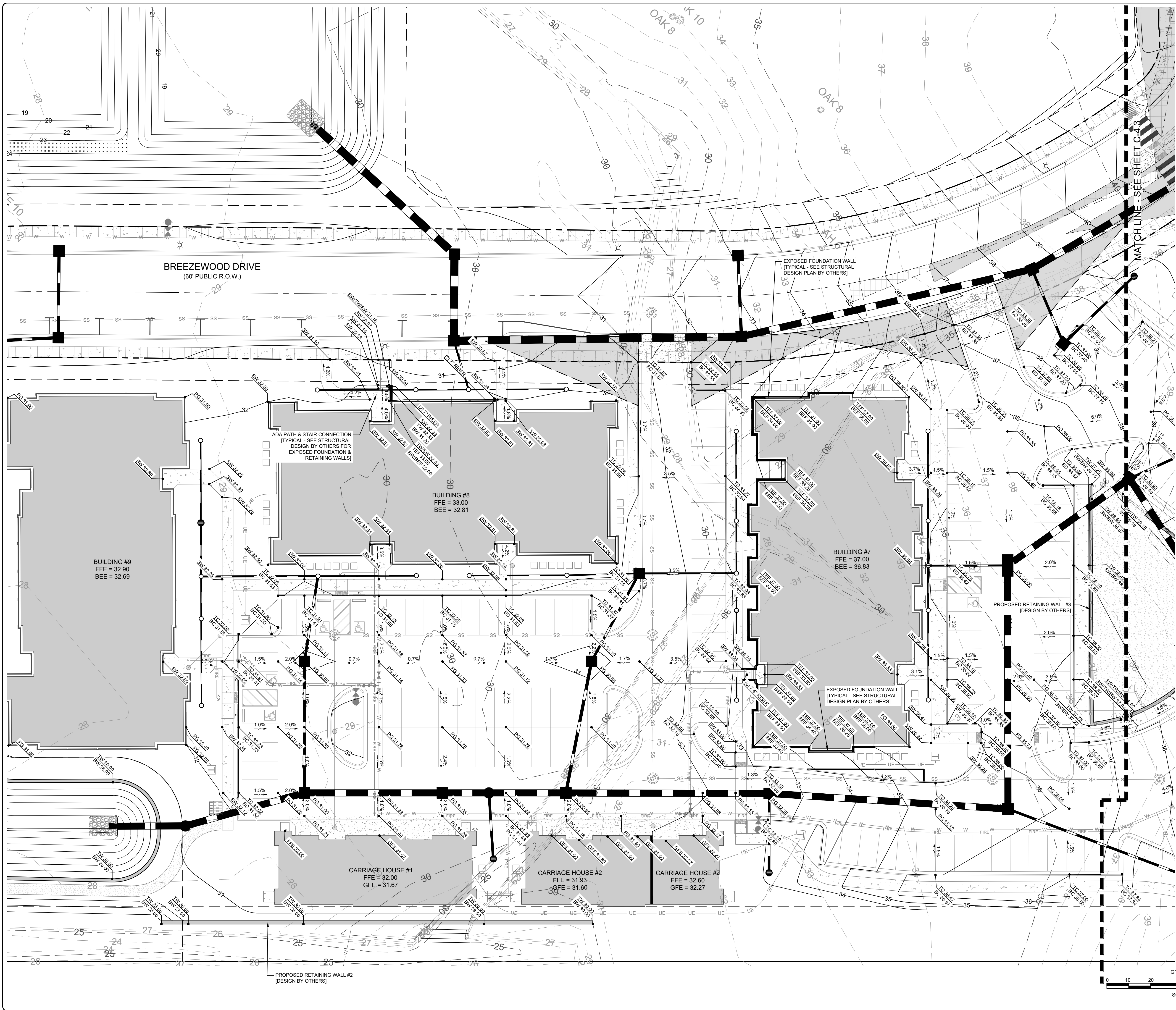


STORM SCHEDULE:

Upstream Node	Downstream Node	Diameter (in)	Upstream Invert	Downstream Invert	Pipe Length (ft)	Slope (%)	Upstream Rim Elev	Downstream Rim Elev	Pipe Material
MH-101	FES-100	18	21.89	21.00	48	1.85	30.77	-	RCP III
CB-102	MH-101	15	26.21	25.79	42	0.99	30.01	30.77	RCP III
CB-103	CB-102	15	26.60	26.21	40	1.00	30.06	30.01	RCP III
MH-201	FES-200	36	21.62	21.00	31	2.00	31.00	-	RCP III
DI-202	MH-201	36	22.75	21.62	56	2.00	31.00	31.00	RCP III
DI-203	DI-202	15	26.40	25.80	60	1.01	31.00	31.00	RCP III
DI-207	DI-202	36	23.63	22.75	63	1.40	31.05	31.00	RCP III
MH-209	DI-207	36	23.63	21.26	21	1.40	31.26	31.05	RCP III
YD-210	MH-209	12	25.78	25.48	30	1.02	31.50	31.26	RCP III
DI-212	MH-209	36	24.42	23.93	35	1.40	30.95	31.26	RCP III
DI-213	DI-212	15	27.29	26.69	61	0.99	30.85	30.95	RCP III
CB-214	DI-213	12	28.15	27.92	46	0.50	31.25	30.95	RCP III
DI-216	DI-212	36	25.72	24.42	93	1.40	31.90	30.95	RCP III
YD-217	DI-216	12	27.35	26.99	36	1.01	31.00	31.90	RCP III
DI-218	DI-216	36	27.24	25.72	109	1.40	35.81	31.90	RCP III
YD-219A	DI-218	12	34.10	31.06	121	2.52	38.50	35.81	RCP III
CD-219B	YD-219A	12	34.36	34.10	13	2.00	38.99	38.50	RCP III
CD-219C	CD-219B	12	34.72	34.36	18	2.00	39.54	38.99	RCP III
RD-220	CD-219C	12	35.06	34.72	17	2.00	39.50	39.54	RCP III
DDI-221	DI-218	36	28.80	27.24	111	1.40	35.00	35.81	RCP III
CB-222	DDI-221	36	29.76	28.80	68	1.40	38.40	35.00	RCP III
CB-225	CB-222	36	31.01	29.76	89	1.40	40.40	38.40	RCP III
DI-228	CB-225	36	33.64	31.01	188	1.40	42.00	40.40	RCP III
RD-229	DI-228	12	37.00	36.19	41	2.00	43.00	42.00	RCP III
DI-230	DI-228	30	34.29	33.64	65	1.00	43.75	42.00	RCP III
DI-231	DI-230	30	35.15	34.29	86	1.00	44.12	43.75	RCP III
CB-250	DI-231	15	36.05	35.15	100	0.90	44.78	44.12	RCP III
YD-251	CB-250	12	39.00	38.80	20	1.01	45.25	44.78	HDPE
DI-300	DI-231	30	36.08	35.25	137	0.60	44.25	44.12	RCP III
CB-301	DI-300	30	36.87	36.08	135	0.59	45.15	44.25	RCP III
DI-303	CB-301	15	42.21	41.46	75	1.01	46.28	45.15	RCP III
DI-304	DI-303	15	43.00	42.06	94	1.00	46.71	46.28	RCP III
CB-307	DI-304	30	37.62	36.87	125	0.60	45.40	45.15	RCP III
YD-308	CB-307	15	42.00	41.61	78	0.50	47.65	45.40	HDPE
CB-309	CB-307	30	37.62	37.62	142	0.60	45.90	45.40	RCP III
CB-310	CB-309	15	41.00	40.64	73	0.50	47.00	45.90	HDPE
CB-311	CB-309	30	39.02	38.47	92	0.60	45.83	45.90	RCP III
DI-312	CB-311	30	39.58	39.02	94	0.60	46.20	45.83	RCP III
DI-314	DI-312	24	41.36	40.59	127	0.60	46.35	46.20	RCP III
DI-316	DI-314	24	41.70	41.36	57	0.60	46.75	46.35	RCP III
DI-317	DI-316	15	43.25	42.64	101	0.60	46.90	46.75	RCP III
DI-318	DI-316	15	43.15	42.93	43	0.51	47.00	46.75	RCP III
DI-319	DI-316	15	43.00	42.45	92	0.60	47.05	46.75	RCP III
DI-320	DI-319	15	43.50	43.00	83	0.60	47.05	47.05	RCP III
RD-321	DI-319	15	42.72	41.85	145	0.60	46.90	46.20	RCP III
RD-322	DI-321	12	43.00	42.72	47	0.60	48.00	46.90	RCP III
RD-323	DI-312	8	42.50	40.59	60	3.19	47.74	46.20	HDPE
RD-324	DI-314	8	43.00	42.54	46	1.00	47.61	46.35	HDPE

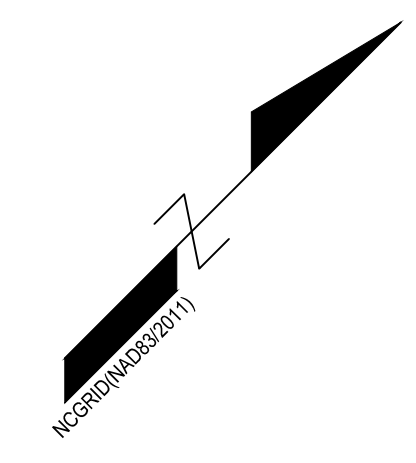
Upstream Node	Downstream Node	Diameter (in)	Upstream Invert	Downstream Invert	Pipe Length (ft)	Slope (%)	Upstream Rim Elev	Downstream Rim Elev	Pipe Material
MH-401	FES-400	42	20.00	20.00	46	0.00	30.86	-	RCP III
FES-402	MH-401	42	20.00	20.00	105	0.00	-	30.86	RCP III
CB-403	MH-401	15	24.13	23.38	150	0.50	27.81	30.86	RCP III
CB-404	CB-403	15	25.30	25.17	37	0.35	27.81	27.81	RCP IV
FES-501	FES-500	30	23.68	23.50	37	0.49	27.42	-	RCP IV
FES-502	FES-501	30	24.00	23.68	66	0.48	-	27.42	RCP IV
CB-601	FES-500	42	20.63	20.00	84	0.75	30.12	-	RCP III
CB-602	CB-601	42	20.93	20.63	40	0.75	30.06	30.12	RCP III
CB-603	CB-602	42	21.91	20.93	131	0.75	32.62	30.06	RCP III
CB-604	CB-603	15	29.00	15.56	37	36.32	32.62	32.62	RCP III
CB-605	CB-603	36	29.31	26.25	136	2.25	38.46	32.62	RCP III
CB-606	CB-605	36	31.31	29.31	89	2.25	41.53	38.46	RCP III
MH-607	CB-606	36	33.05	31.31	77	2.25	44.39	41.53	RCP III
MH-608	MH-607	36	34.03	33.05	132	0.75	42.10	44.39	RCP III
CB-609	CB-605	12	33.61	32.87	37	2.00	37.45	38.46	RCP III
YD-610	CB-609	12	34.50	33.61	44	2.00	38.00	37.45	RCP III
CB-611	MH-607	36	35.45	34.67	104	0.75	42.26	44.39	RCP III
CB-612	CB-611	30	38.04	37.86	37	0.49	42.26	42.26	RCP III
DI-613	CB-612	30	38.20	38.04	32	0.50	42.00	42.26	RCP III
CB-614	CB-611	30	35.74	35.45	39	0.74	42.39	42.26	RCP III
CB-615	CB-614	30	37.06	35.74	176	0.75	45.36	42.39	RCP III
MH-616	CB-615	30	37.84	37.06	156	0.50	47.66	45.36	RCP III
CB-617	MH-616	30	38.27	37.84	87	0.50	46.68	47.66	RCP III
CB-618	CB-617	15	43.00	42.63	37	0.99	46.68	46.68	RCP III
CB-619	CB-617	30	38.36	38.27	18	0.50	46.65	46.68	RCP III
CB-620	CB-619	30	38.82	38.36	91	0.50	47.22	46.65	RCP III
RD-621	CB-620	12	43.00	42.80	21	0.98	48.50	47.22	RCP III
MH-622	CB-620	30	39.32	38.82	101	0.50	47.73	47.22	RCP III
MH-623	MH-622	24	41.95	41.63	64	0.50	47.00	47.73	RCP III
DI-624	MH-622	15	42.70	42.05	65	1.00	46.70	47.73	RCP III
CB-625	MH-622	15	41.85	41.38	117	0.40	45.12	47.73	RCP III
CB-626	CB-625	15	42.00	41.85	37	0.41	45.12	45.12	RCP III
DI-627	CB-625	12	41.96	41.82	28	0.50	45.00	45.12	RCP III
RD-1.1	DI-318	8	44.86	44.40	46	0.99	48.34	47.00	HDPE
RD-1.2	RD-1.1	8	45.24	44.86	38	1.00	48.42	48.34	HDPE
RD-1.3	RD-1.2	6	45.62	45.24	38	1.00	48.46	48.42	HDPE
RD-1.4	RD-1.3	6	46.00	45.62	38	1.00	48.57	48.46	HDPE
RD-1.5	DI-318	12	43.86	43.44	84	0.50	48.20	47.00	HDPE
RD-1.6	RD-1.5	8	44.36	44.00	36	1.01	48.41	48.20	HDPE
RD-1.7	RD-1.6	8	44.74	44.36	38	1.00	48.17	48.41	HDPE
RD-1.8	RD-1.7	6	45.12	44.74	38	1.00	48.18	48.17	HDPE
RD-1.9	RD-1.8	6	45.50	45.12	38	1.00	47.30	48.18	HDPE

Upstream Node	Downstream Node	Diameter (in)	Upstream Invert	Downstream Invert	Pipe Length (ft)	Slope (%)	Upstream Rim Elev	Downstream Rim Elev	Pipe Material
RD-2.1	DI-318	8	44.76	44.34	42	1.00	48.35	47.00	HDPE
RD-2.2	RD-2.1	8	45.14	44.76	38	1.00	48.51	48.35	HDPE
RD-2.3	RD-2.2	6	45.52	45.14	38	1.00	48.63	48.51	HDPE
RD-2.4	RD-2.3	6	45.90	45.52	38	1.00	48.79	48.63	HDPE
RD-2.5	RD-2.4	8	44.36	43.86	50	1.00	48.42	48.20	HDPE
RD-2.6	RD-2.5	8	44.74	44.36	38	1.00	47.99	48.42	HDPE
RD-2.7	RD-2.6	6	45.12	44.74	38	1.00	47.98	47.99	HDPE
RD-2.8	RD-2.7	6	45.50	45.12	38	1.00	47.50	47.98	HDPE
RD-3.1	YD-310	12	43.45	43.32	25	0.52	48.34	47.00	HDPE
RD-3.2	RD-3.1	12	43.65	43.45	41	0.50	48.47	48.34	HDPE
YD-3.3	RD-3.2	12	43.75	43.65	20	0.50	48.48	48.47	HDPE
RD-3.4	YD-3.3	8	44.18	44.08	20	0.49	48.61	48.48	HDPE
RD-3.5	RD-3.4	8	44.38	44.18	41	0.50	48.66	48.61	HDPE
YD-3.6	RD-3.5	8	44.50	44.38	21	0.56	47.65	48.66	HDPE
RD-3.7	DI-314	8	44.07	43.30	77	1.00	48.37	46.35	HDPE
RD-3.8	RD-3.7	6	45.69	45.49	20	0.99	48.48	48.37	HDPE
RD-3.9	RD-3.8	6	46.10	45.69	41	1.01	48.69	48.48	HDPE
RD-3.10	RD-3.7	6	45.69	45.49	20	0.99	48.48	48.37	HDPE
RD-3.11	RD-3.10	6	46.10	45.69	41	1.01	48.81	48.48	HDPE
RD-4.1	DI-304	8	44.28	43.47	41	2.00	47.93	46.71	HDPE
RD-4.2	RD-4.1	6	45.10	44.69	41	1.01	48.41	47.93	HDPE
RD-4.3	RD-4.1	6	44.69	44.28	41	1.01	47.99	47.93	HDPE
RD-4.4	RD-4.3	6	45.10	44.69	41	1.01	47.62	47.99	HDPE
RD-4.5	YD-308	12	43.49	43.38	20	0.55	48.07	47.65	HDPE
RD-4.6	RD-4.5	12	43.69	43.49	41	0.50	48.23	48.07	HDPE
YD-4.7	RD-4.6	12	43.79	43.69	20	0.50	47.65	48.23	HDPE
RD-4.8	YD-4.7	8	44.22	44.12	20	0.49	48.45	47.65	HDPE
RD-4.9	RD-4.8	8	44.42	44.22	41	0.50	48.47	48.45	HDPE
YD-4.10	RD-4.9	8	44.50	44.42	22	0.37	47.65	48.47	HDPE
RD-5.1	CB-250	8	42.88	41.50	69	2.00	47.90	44.78	HDPE
RD-5.2	RD-5.1	6	44.87	44.49	38	1.00	47.82	47.90	HDPE
RD-5.3	RD-5.1	6	44.87	44.49	38	1.00	48.00	47.90	HDPE
RD-5.4	RD-5.3	6	45.25	44.87	38	1.00	47.76	48.00	HDPE
RD-5.5	DI-303	8	44.36	43.34	51	1.99	47.94	46.28	HDPE
RD-5.6	RD-5.5	8	44.74	44.36	38	1.00	48.24	47.94	HDPE
RD-5.7	RD-5.6	6	45.12						



FINE GRADING NOTE:

1.) DESIGN GRADE EXCEEDS CHILDRESS KLEIN STANDARD CONSTRUCTION TOLERANCE. CONTRACTOR SHALL TAKE EXTRA CARE TO ENSURE CONSTRUCTION MEET ADA REQUIREMENTS AS DESIGNED.



REVISIONS:

CLIENT INFORMATION:

**CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC**

PARAMOUNT
ENGINEERING

122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

FINE GRADING PLAN

**WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA**

PROJECT STATUS

CONCEPTUAL LAYOUT: PERMITTED CONSTRUCTION

PRELIMINARY LAYOUT: PERMITTED CONSTRUCTION

RELEASED FOR CONST: PERMITTED CONSTRUCTION

DRAWING INFORMATION

DATE: 03.25.21

DESIGNED: [Signature]

DRAWN: [Signature]

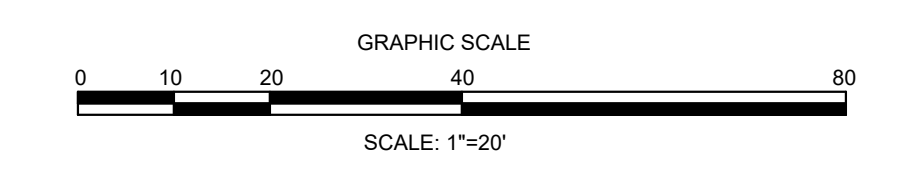
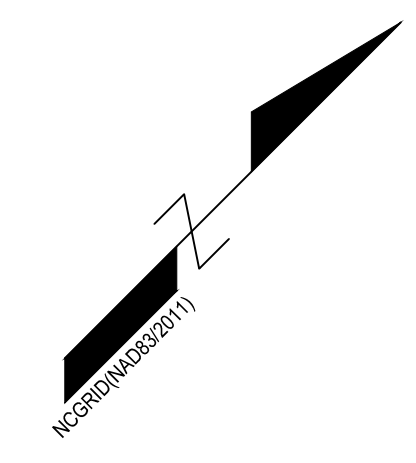
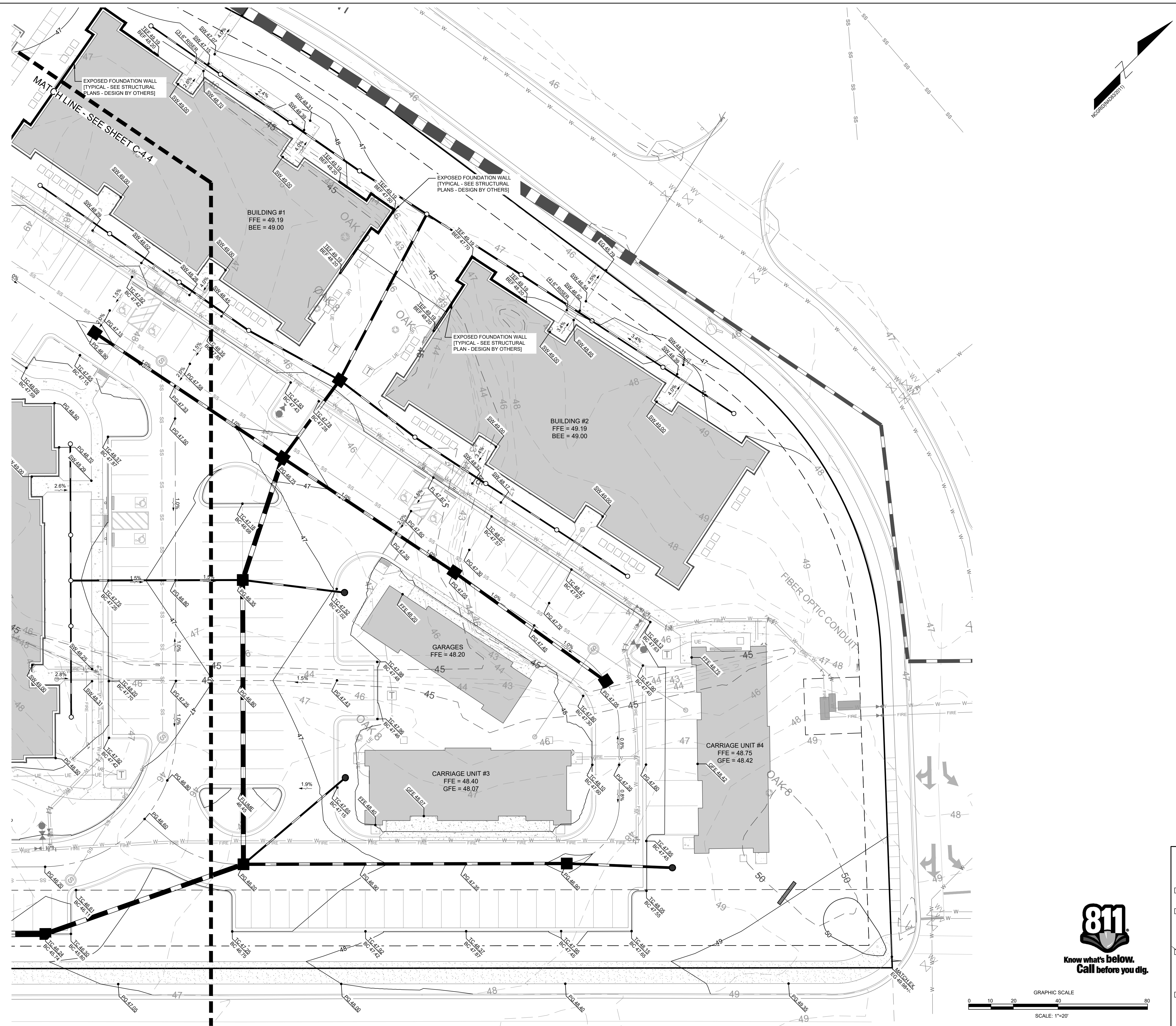
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Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-4.2

PEI JOB#: 20195.PE





ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

PROJECT STATUS
 CONCEPTUAL LAYOUT:
 PRELIMINARY LAYOUT:
 RELEASED FOR CONST.
DRAWING INFORMATION
 DATE: 03.25.21
 DESIGNED: JDF
 CHECKED: JDF

Professional Seal
 redacted on electronic
 copy per City of
 Wilmington Policy

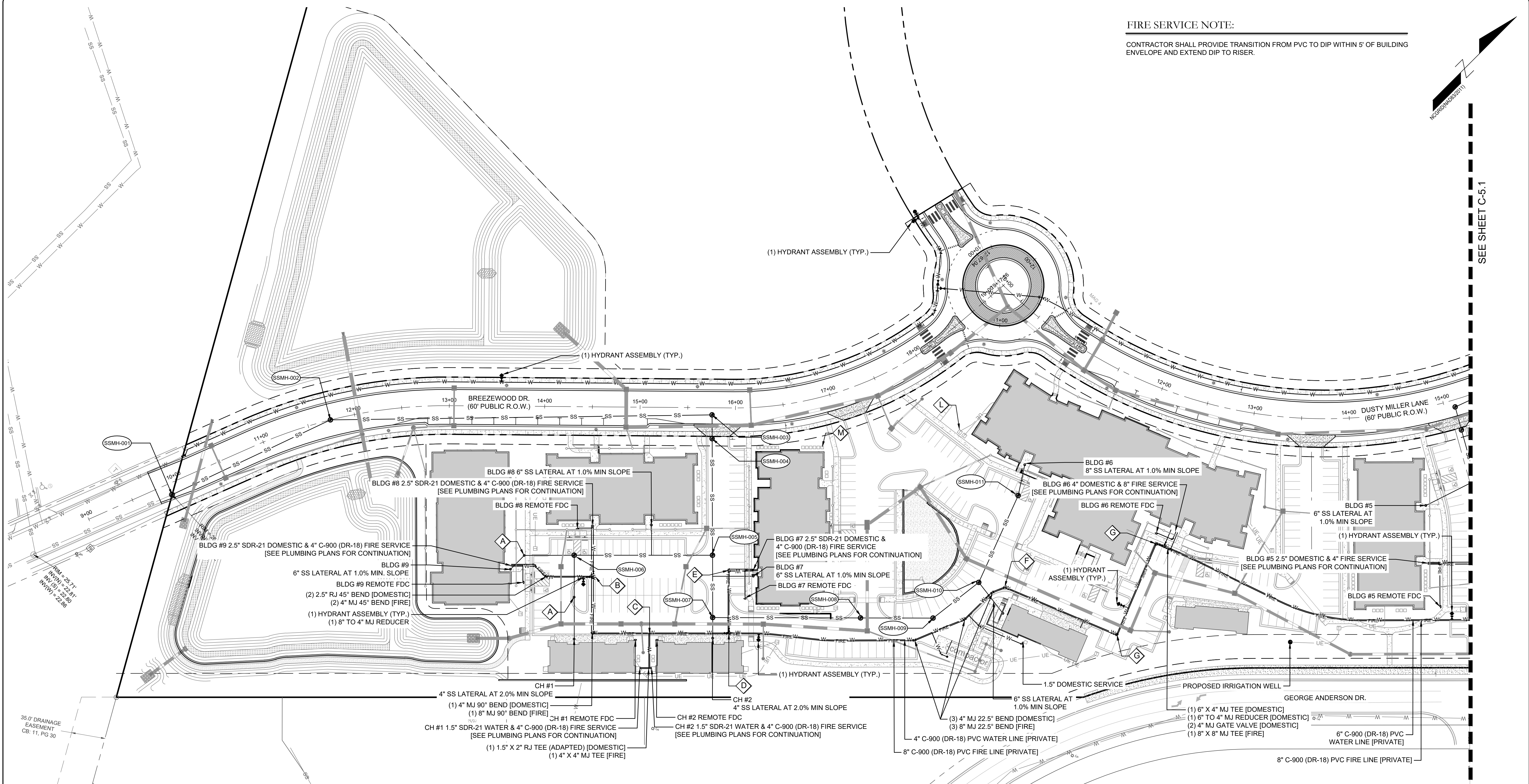
C-4.5
 PEI JOB#: 20195.PE

**FINE GRADING PLAN
 DRAINAGE PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA**

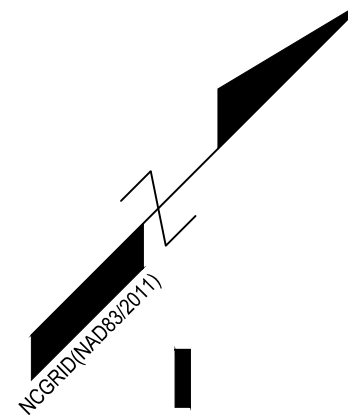
PARAMOUNT
 ENGINEERING, INC.
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 NC License #: C-2846

CLIENT INFORMATION:
 CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

REVISIONS:



FIRE SERVICE NOTE:
 CONTRACTOR SHALL PROVIDE TRANSITION FROM PVC TO DIP WITHIN 5' OF BUILDING ENVELOPE AND EXTEND DIP TO RISER.



SEE SHEET C-5.1

UTILITY NOTES: (NCAC 15A.02T.0305 / T15A.18C.0906)

- WATER MAINS SHALL BE LAID SO AS TO PROVIDE A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FROM SEWERS. IF CONDITIONS EXIST SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, THE WATER MAIN CAN BE INSTALLED AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, EITHER IN A SEPARATE TRENCH, OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH.
- WHEN CROSSING A WATER MAIN OVER A SEWER, THE WATER MAIN SHALL BE LAID AT LEAST 18 INCHES ABOVE THE SEWER. IF CONDITIONS EXIST SUCH THAT THIS SEPARATION CANNOT BE ACHIEVED, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS THAT MEET WATER MAIN STANDARDS. THE DUCTILE IRON PIPE SHALL EXTEND 10 FEET ON EACH SIDE OF THE CROSSING WITH A SECTION OF WATER MAIN PIPE CENTERED ON THE CROSSING.
- CROSSING A WATER MAIN UNDER A SEWER, WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF FERROUS MATERIALS AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
- WHERE VERTICAL CLEARANCE IS LESS THAN 24" BETWEEN SANITARY SEWER AND STORM DRAIN, SANITARY SEWER SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING AND STORM DRAIN SHALL BE RC PIPE.
- WHERE VERTICAL CLEARANCE IS LESS THAN 18" BETWEEN WATER MAIN AND STORM DRAIN, WATER MAIN SHALL BE DUCTILE IRON PIPE FOR A MINIMUM OF 10' EITHER SIDE OF CROSSING AND STORM DRAIN SHALL BE RC PIPE.

UTILITY INFORMATION
SANITARY SEWER
 THIS PROJECT IS CONSTRUCTING A SANITARY SEWER GRAVITY SYSTEM THAT WILL CONNECT TO AN EXISTING GRAVITY LINE IN BREEZEWOOD DRIVE AND DUSTY MILLER LANE. SANITARY SEWER ALLOCATION IS PROVIDED BY CFPUA.

WATER
 THIS PROJECT WILL EXTEND AN EXISTING 8-INCH PUBLIC WATER MAIN ON BREEZEWOOD DRIVE TO THE ROUND-A-BOUT FOR FUTURE EXTENSION TO STONE CROP. THIS PROJECT'S DOMESTIC AND FIRE SERVICE WILL CONNECT TO EXISTING 8-INCH MAIN IN CHIPPENHAM DR. RIGHT OF WAY, CONSTRUCTING PRIVATE WATER LINES THAT WILL PROVIDE FIRE FLOW AND DOMESTIC WATER FOR THE TRACT. DOMESTIC WATER ALLOCATION PROVIDED BY CFPUA.

WATER & SEWER SERVICE NOTE:
 1. CONTRACTOR SHALL INSTALL WATER AND SEWER SERVICES IN ACCORDANCE WITH CFPUA STANDARD DETAILS AND SPECIFICATIONS.

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD SEWER NOTES:

- SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS.
- WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RW LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE.
- ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401 CERAMIC EPOXY LINING.
- MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- NO FLEXIBLE COUPLINGS SHALL BE USED.
- ALL STAINLESS STEEL FASTENERS SHALL BE 316.
- CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

UTILITY KEYNOTES:

<p>A 4" CLEAN OUT [TYPICAL]</p> <p>B (1) 4" X 4" MJ TEE [DOMESTIC] (2) 4" MJ GATE VALVE [DOMESTIC] (2) 4" MJ PLUG (ADAPTED FOR 2.5" SERVICE) [DOMESTIC] (1) 8" X 8" MJ TEE [FIRE] (1) 8" TO 4" MJ REDUCER [FIRE]</p> <p>C (1) 4" X 4" MJ TEE [DOMESTIC] (2) 4" MJ GATE VALVE [DOMESTIC] (1) 4" MJ PLUG (ADAPTED FOR 2" SERVICE) [DOMESTIC] (1) 8" X 4" MJ TEE [FIRE]</p> <p>D (1) 4" X 4" MJ TEE [DOMESTIC] (2) 4" MJ GATE VALVE [DOMESTIC] (1) 4" MJ PLUG (ADAPTED FOR 2.5" SERVICE) [DOMESTIC] (1) 8" X 4" MJ TEE [FIRE]</p> <p>E (1) 2.5" RJ 90° BEND [DOMESTIC] (1) 4" MJ 90° BEND [FIRE]</p> <p>F (1) 4" MJ 45° BEND [DOMESTIC] (1) 8" MJ 45° BEND [FIRE]</p> <p>G (1) 4" MJ 90° BEND [DOMESTIC] (1) 8" MJ 90° BEND [FIRE]</p> <p>H (1) 2.5" RJ 45° BEND [DOMESTIC] (1) 4" MJ 45° BEND [FIRE]</p>	<p>I (1) FIRE HYDRANT ASSEMBLY (2) 6" MJ 22.5° BEND [DOMESTIC] (1) 6" X 6" MJ TEE [DOMESTIC] (1) 6" TO 4" MJ REDUCER [DOMESTIC] (1) 6" MJ GATE VALVE [DOMESTIC] (1) 4" MJ GATE VALVE [DOMESTIC] (1) 8" X 8" MJ TEE [FIRE] (2) 8" MJ 22.5° BEND [FIRE]</p> <p>J (1) 4" X 4" MJ TEE [DOMESTIC] (2) 4" MJ GATE VALVE [DOMESTIC] (1) 4" MJ PLUG (ADAPTED FOR 2.5" SERVICE) [DOMESTIC] (1) 8" X 4" MJ TEE [FIRE]</p> <p>K (1) 4" X 4" MJ TEE [DOMESTIC] (2) 4" MJ GATE VALVE [DOMESTIC] (1) 4" MJ PLUG (ADAPTED FOR 2.5" SERVICE) [DOMESTIC] (1) 4" MJ PLUG (ADAPTED FOR 1.5" SERVICE) [DOMESTIC] (1) 8" X 4" MJ TEE [FIRE]</p> <p>L PROPOSED TRANSFORMER AND UNDERGROUND SERVICE TO BUILDING (TYPICAL). [SEE MEP PLANS]</p> <p>M PROPOSED HVAC PAD (TYPICAL). [SEE MEP PLANS]</p>
--	--

REVISIONS:

CLIENT INFORMATION:

PARAMOUNT ENGINEERING

CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

122 Cinema Drive
 Wilmington, North Carolina 28403
 (910) 791-6707 (O) (910) 791-6766 (F)
 NC License #: C-2846

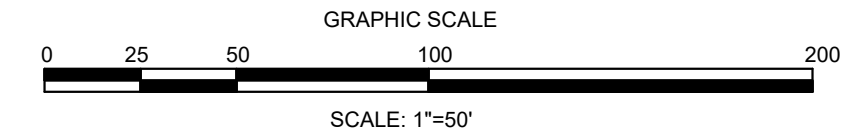
OVERALL UTILITY PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

PROJECT STATUS
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 PRELIMINARY LAYOUT:
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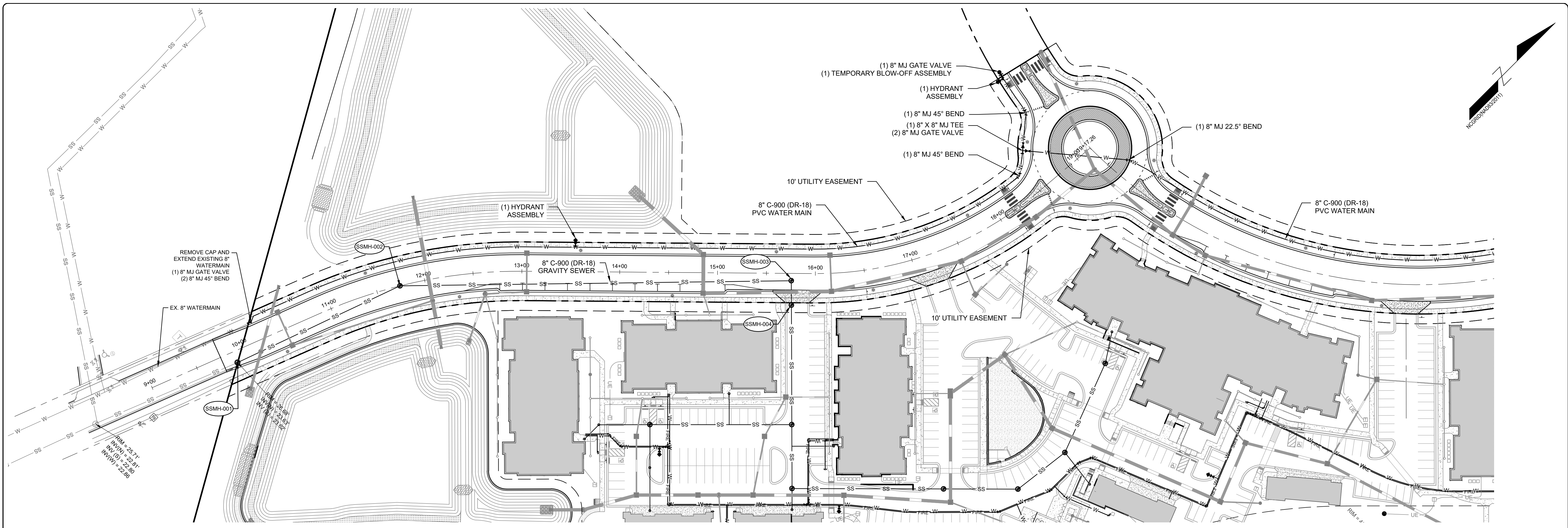
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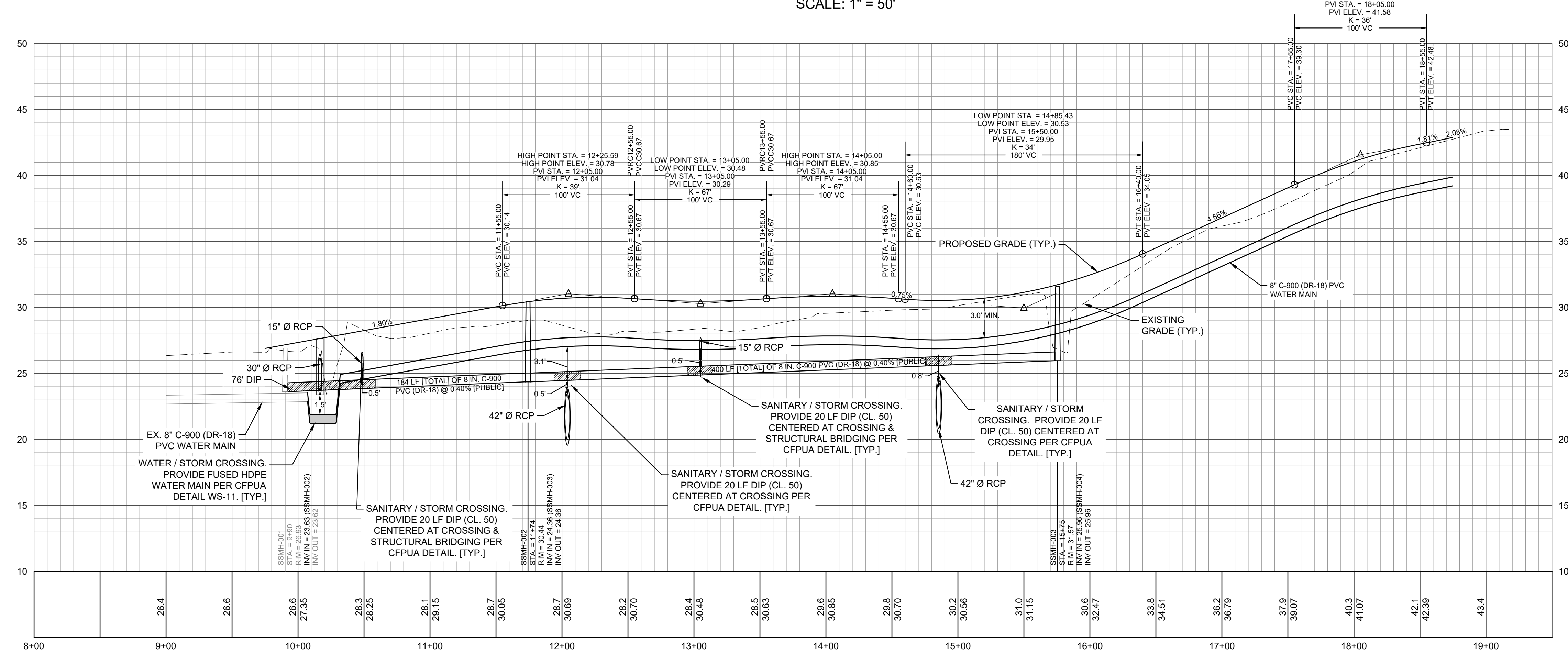
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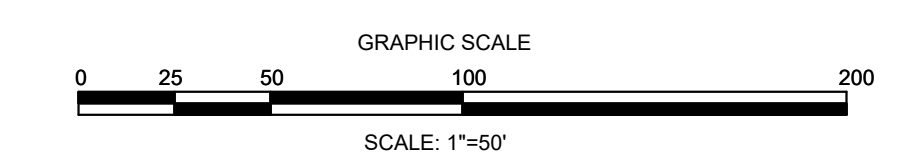
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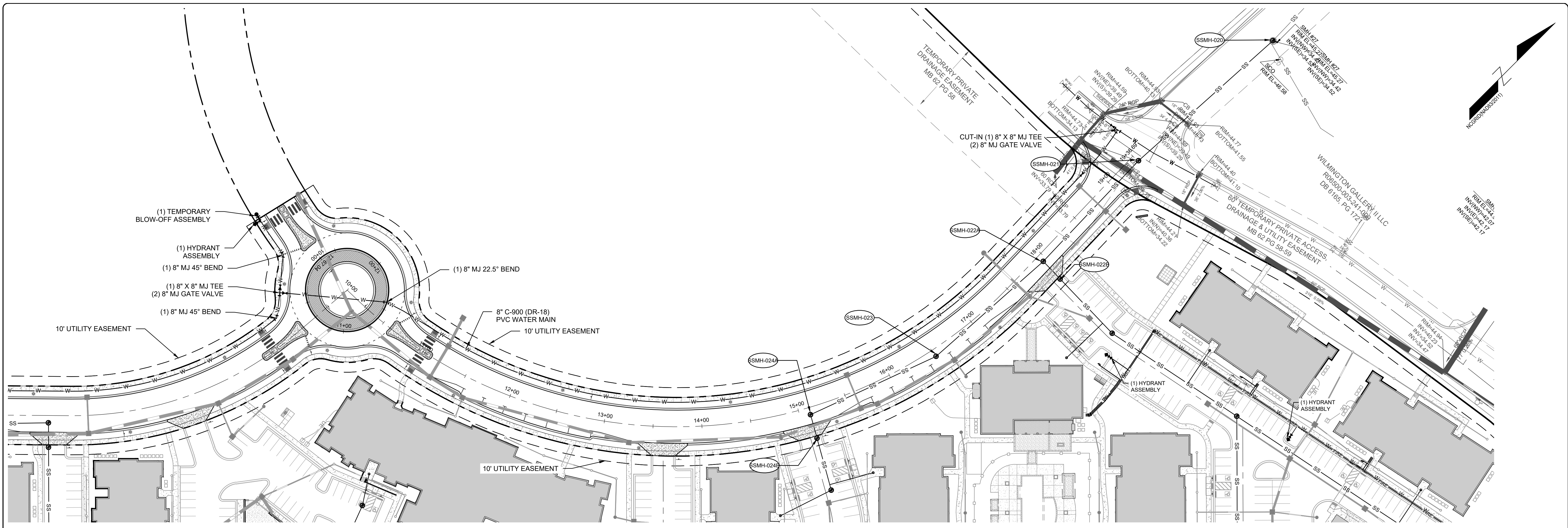
BREEZEWOOD - PLAN VIEW
SCALE: 1" = 50'



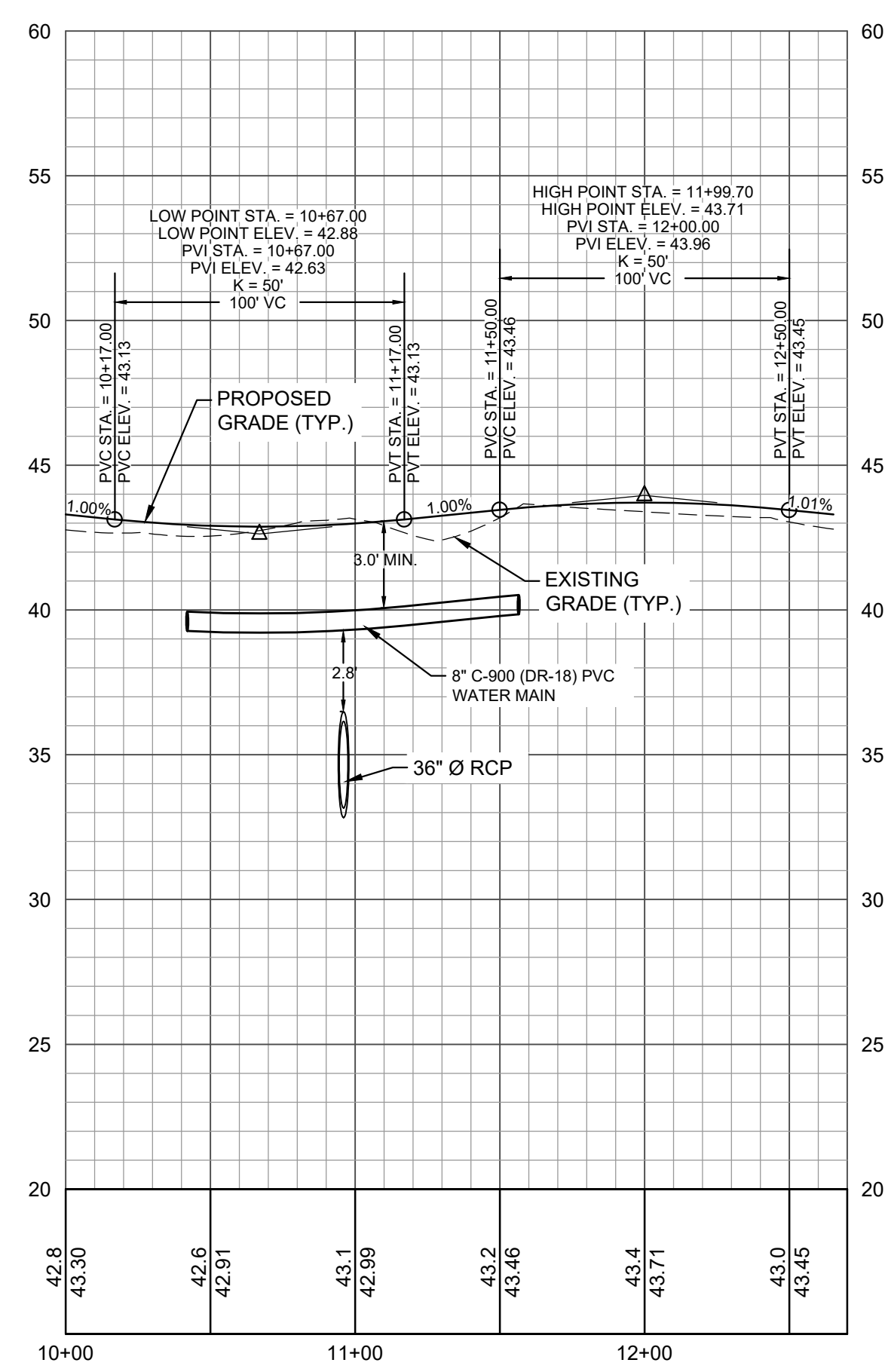
BREEZEWOOD - PROFILE VIEW
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



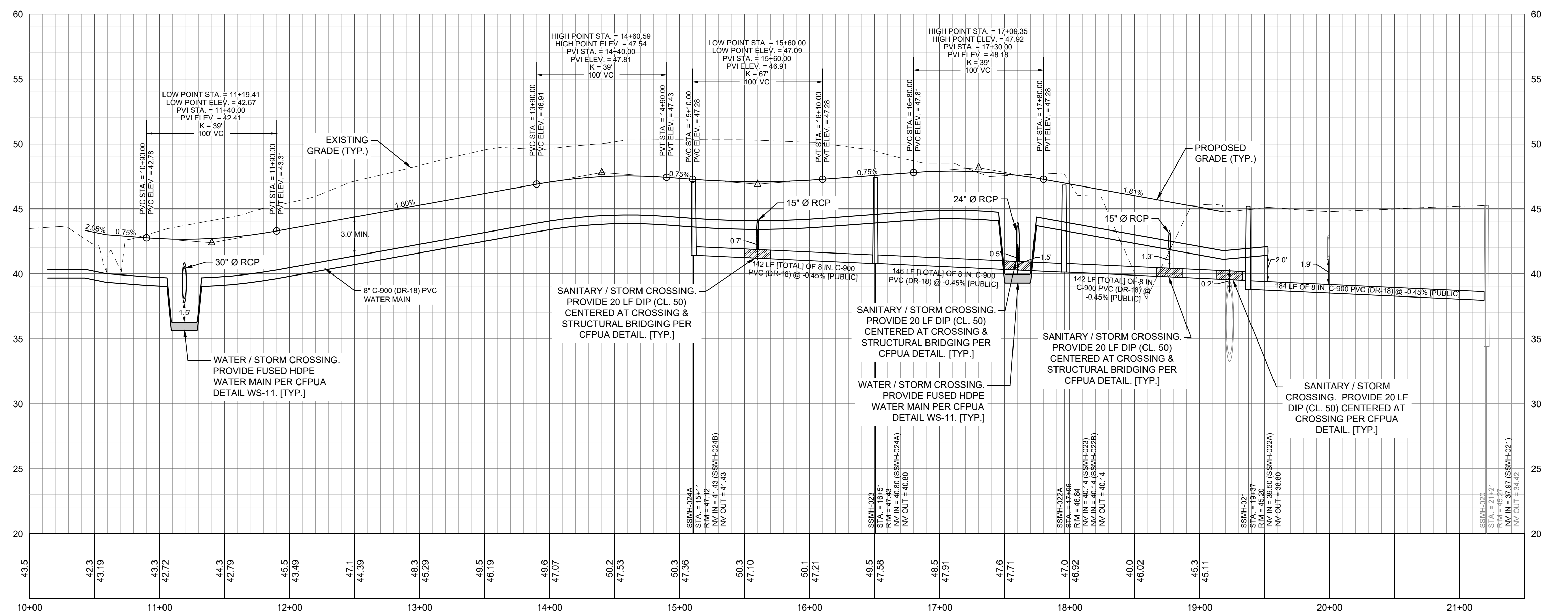
REVISIONS: 	<p style="text-align: center;">PARAMOUNT ENGINEERING</p> <p style="text-align: center;">122 Cinema Drive Wilmington, North Carolina 28403 (910) 791-6707 (O) (910) 791-6766 (F) NC License #: C-2846</p>	CLIENT INFORMATION: <p style="text-align: center;">CK WILMINGTON THREE PHASE A, LLC CHARLOTTE, NC</p>
<p>PLAN & PROFILE</p> <p>WILMINGTON THREE PHASE A CITY OF WILMINGTON NORTH CAROLINA</p>		
PROJECT STATUS: <input type="checkbox"/> CONCEPTUAL LAYOUT <input type="checkbox"/> PRELIMINARY LAYOUT <input checked="" type="checkbox"/> RELEASED FOR CONSTRUCTION	DRAWING INFORMATION: DATE: 03.25.21 ADW: DF DESIGNED: DF DRAWN: DF CHECKED: DF	PROFESSIONAL SEAL redacted on electronic copy per City of Wilmington Policy
<p style="font-size: 2em; font-weight: bold;">C-5.2</p>		
PEI JOB#: 20195.PE		



ROUND-A-BOUT + DUSTY MILLER - PLAN VIEW
SCALE: 1" = 50'



ROUND-A-BOUT - PROFILE VIEW
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



DUSTY MILLER - PROFILE VIEW
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REVISIONS:

CLIENT INFORMATION:

CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNT
ENGINEERING
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

PLAN & PROFILE

WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

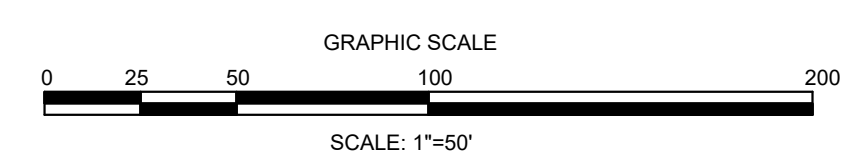
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CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST.:

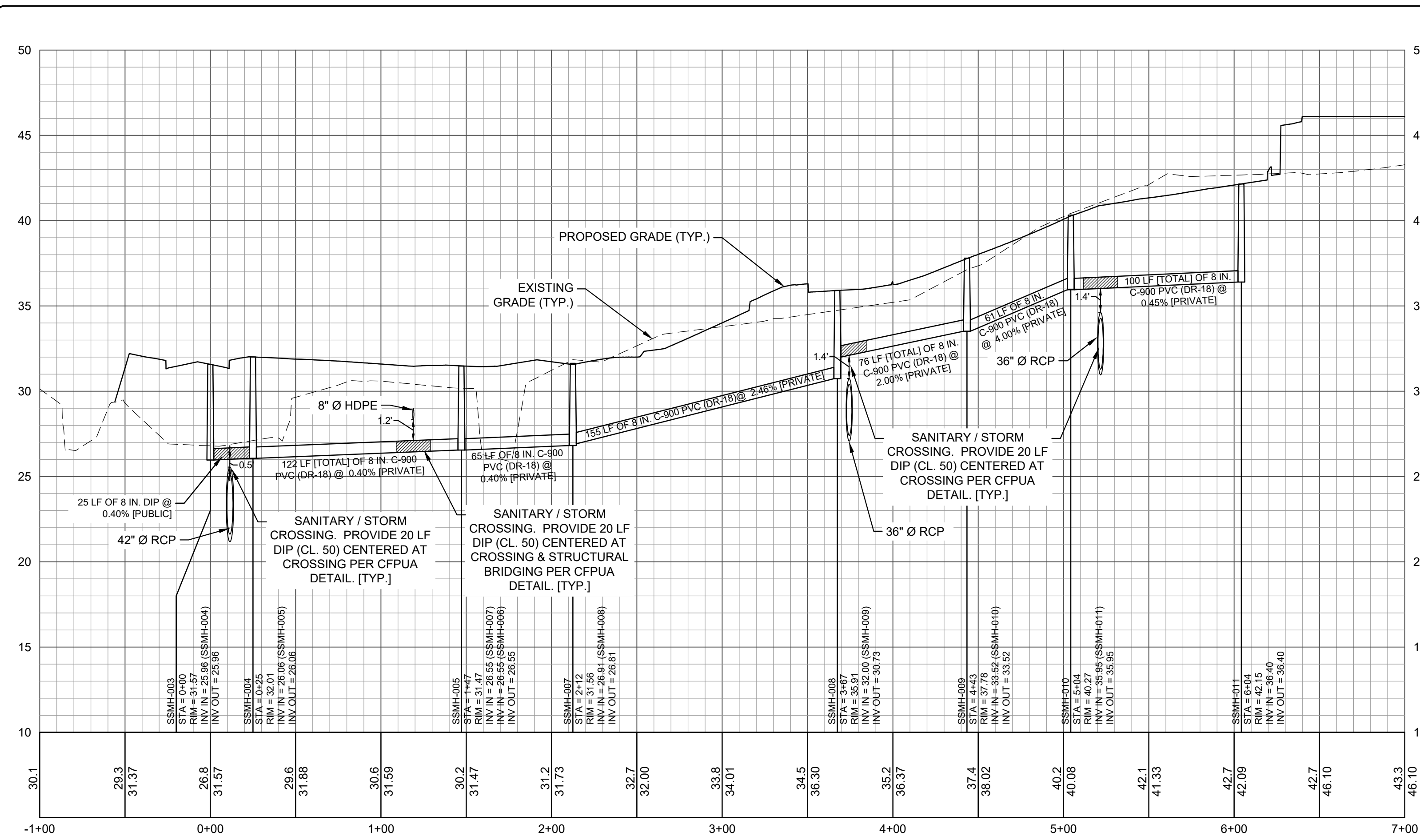
DRAWING INFORMATION
DATE: 03.25.21
ADVISOR: DF
DESIGNED: DF
DRAWN: DF
CHECKED: DF

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

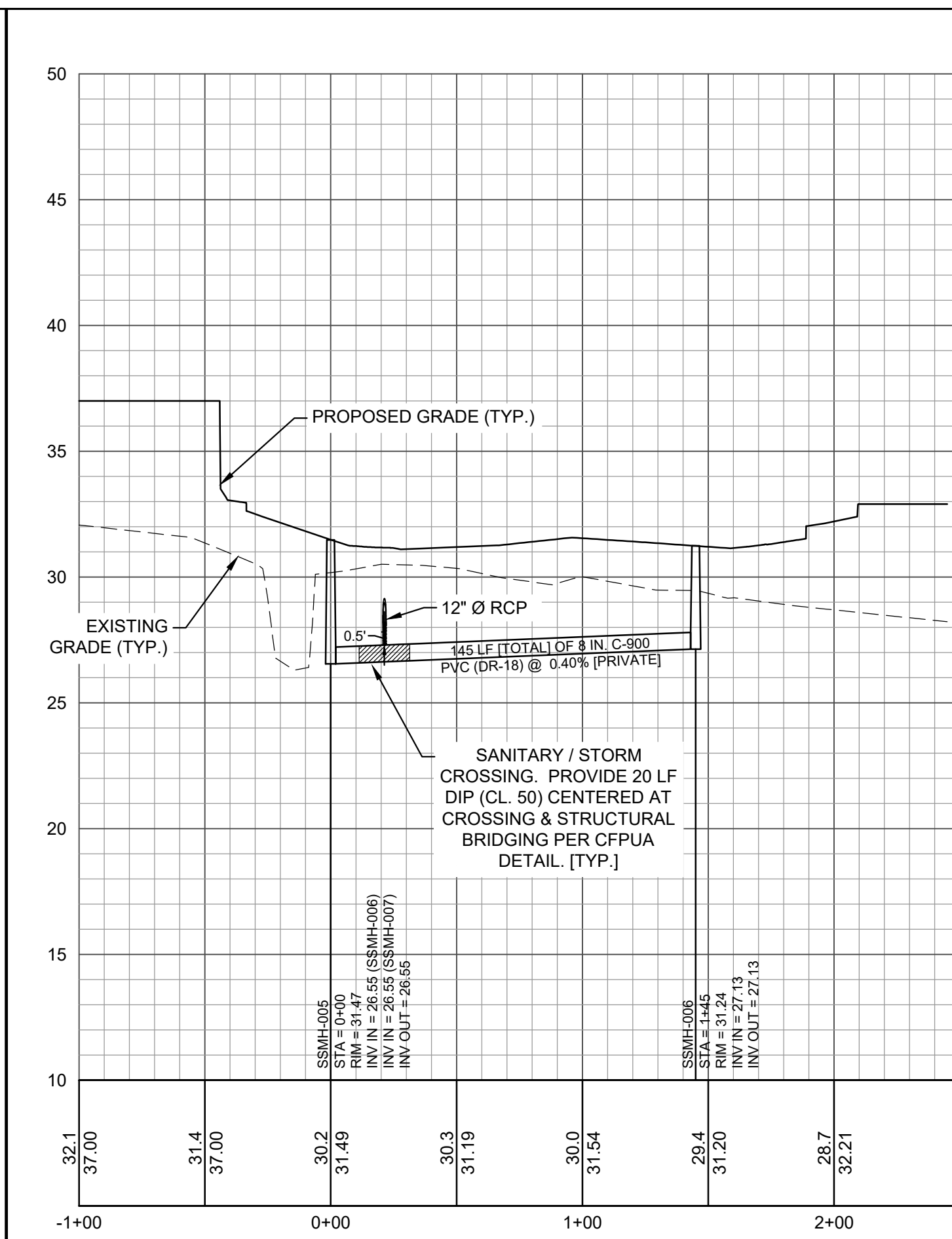
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PEI JOB#: 20195.PE

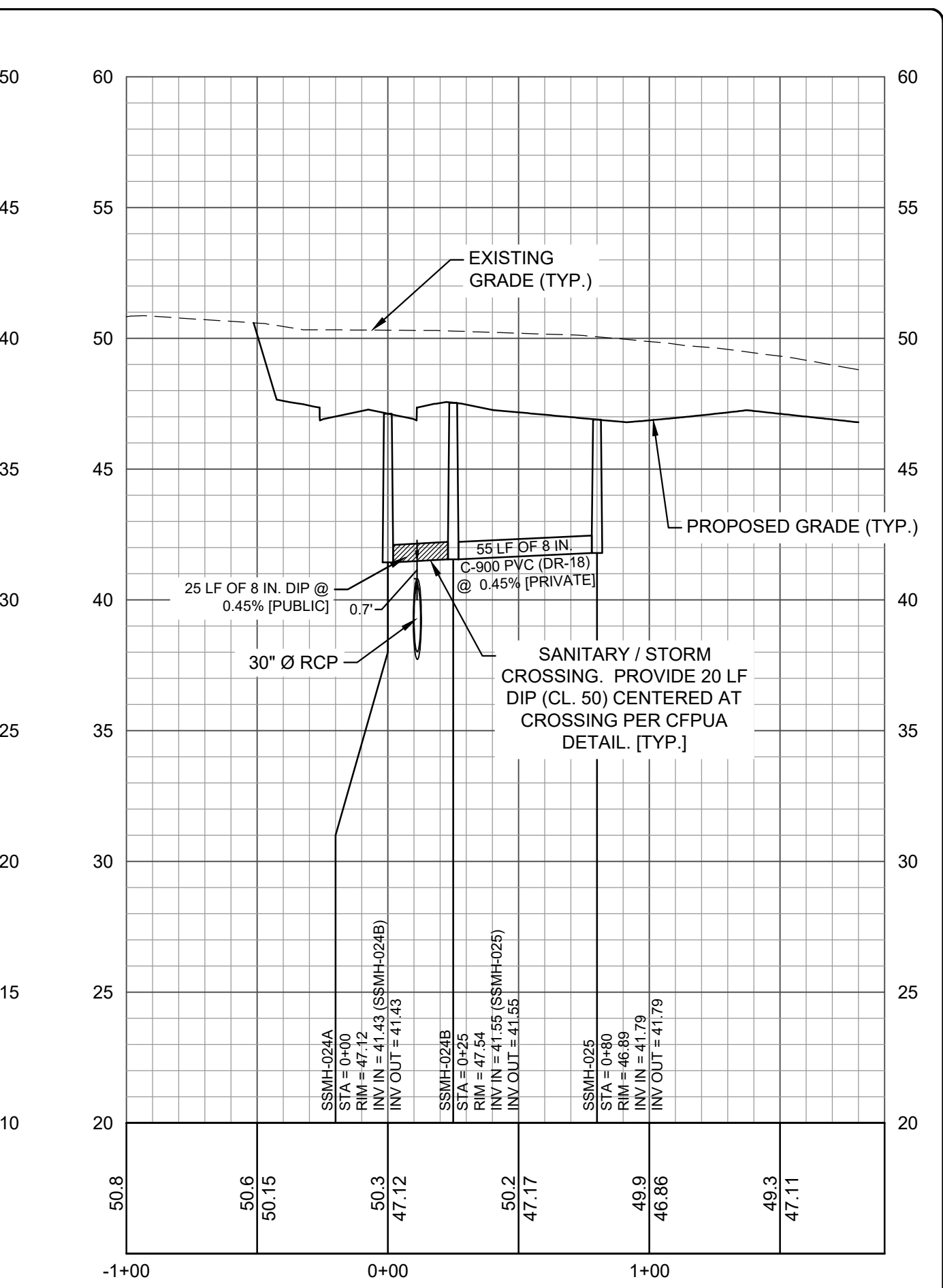




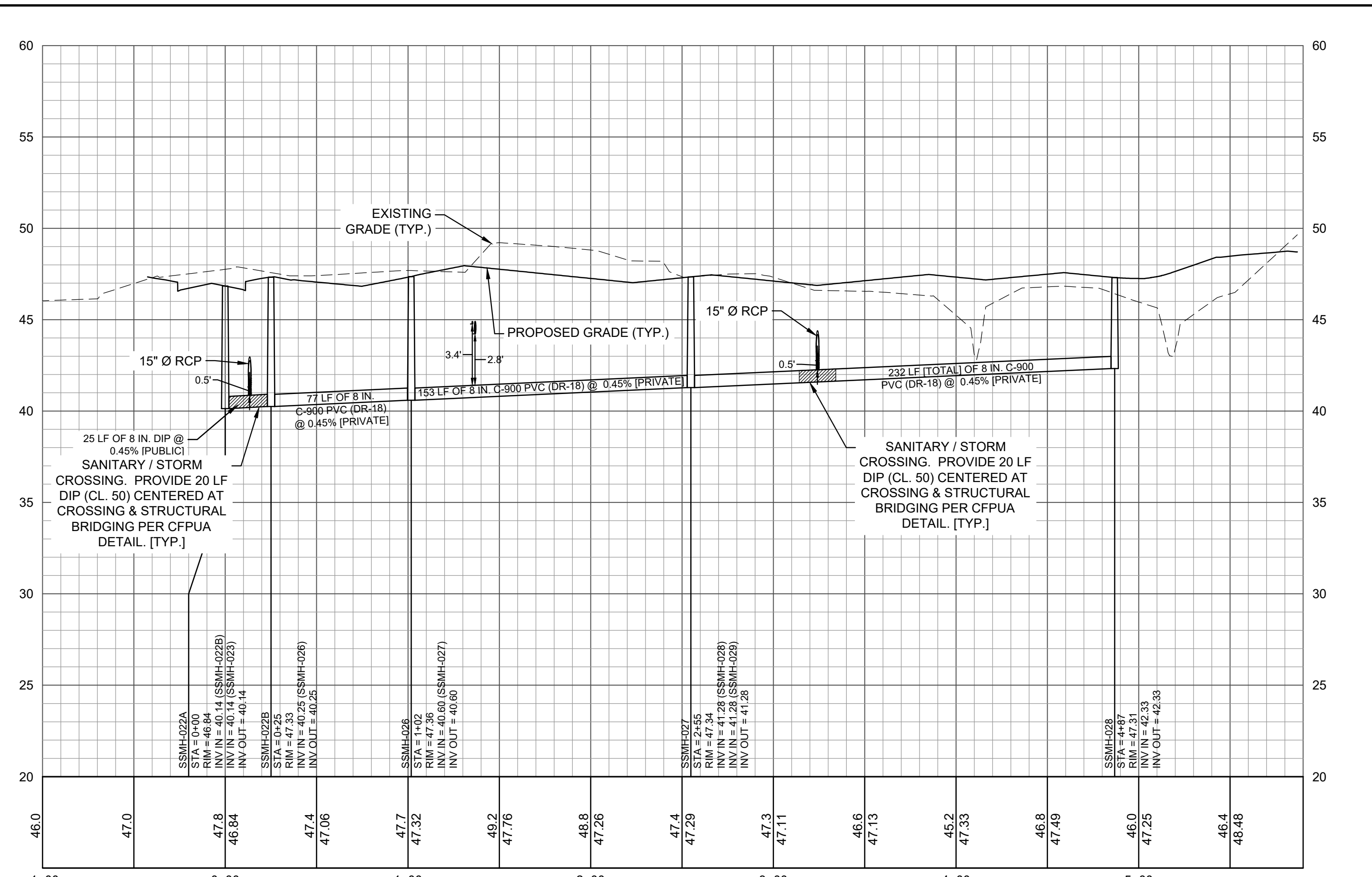
SSMH-003 TO SSMH-011 - PROFILE VIEW
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 VERTICAL SCALE: 1" = 5'



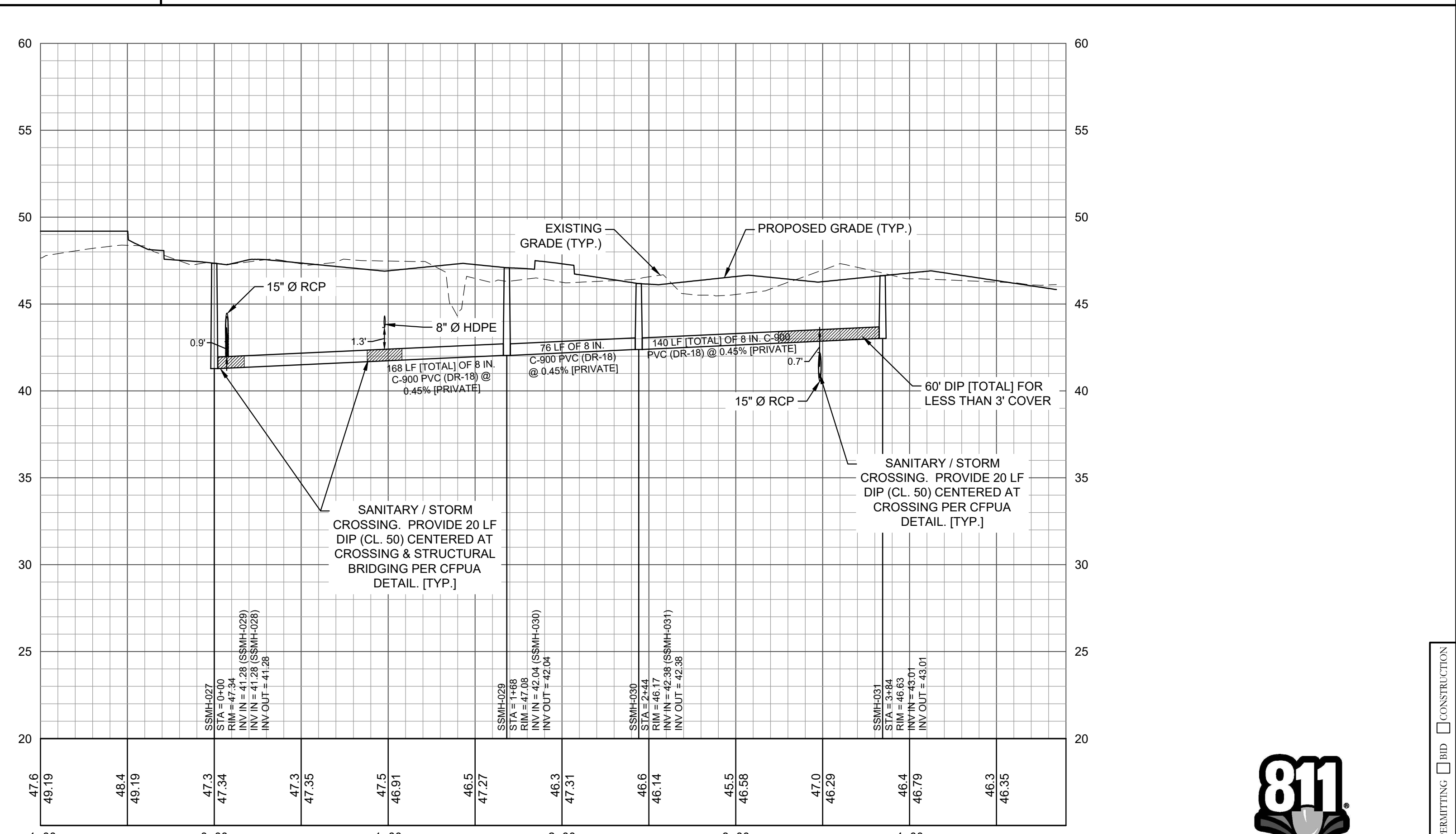
SSMH-005 TO SSMH-006 - PROFILE VIEW
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 VERTICAL SCALE: 1" = 5'



SSMH-024A TO SSMH-025 - PROFILE VIEW
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'



SSMH-022A TO SSMH-028 - PROFILE VIEW
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'



SSMH-027 TO SSMH-031 - PROFILE VIEW
 HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 5'

REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

PARAMOUNT ENGINEERING
 122 Cinema Drive
 Wilmington, North Carolina 28403
 (910) 791-6707 (O) (910) 791-6766 (F)
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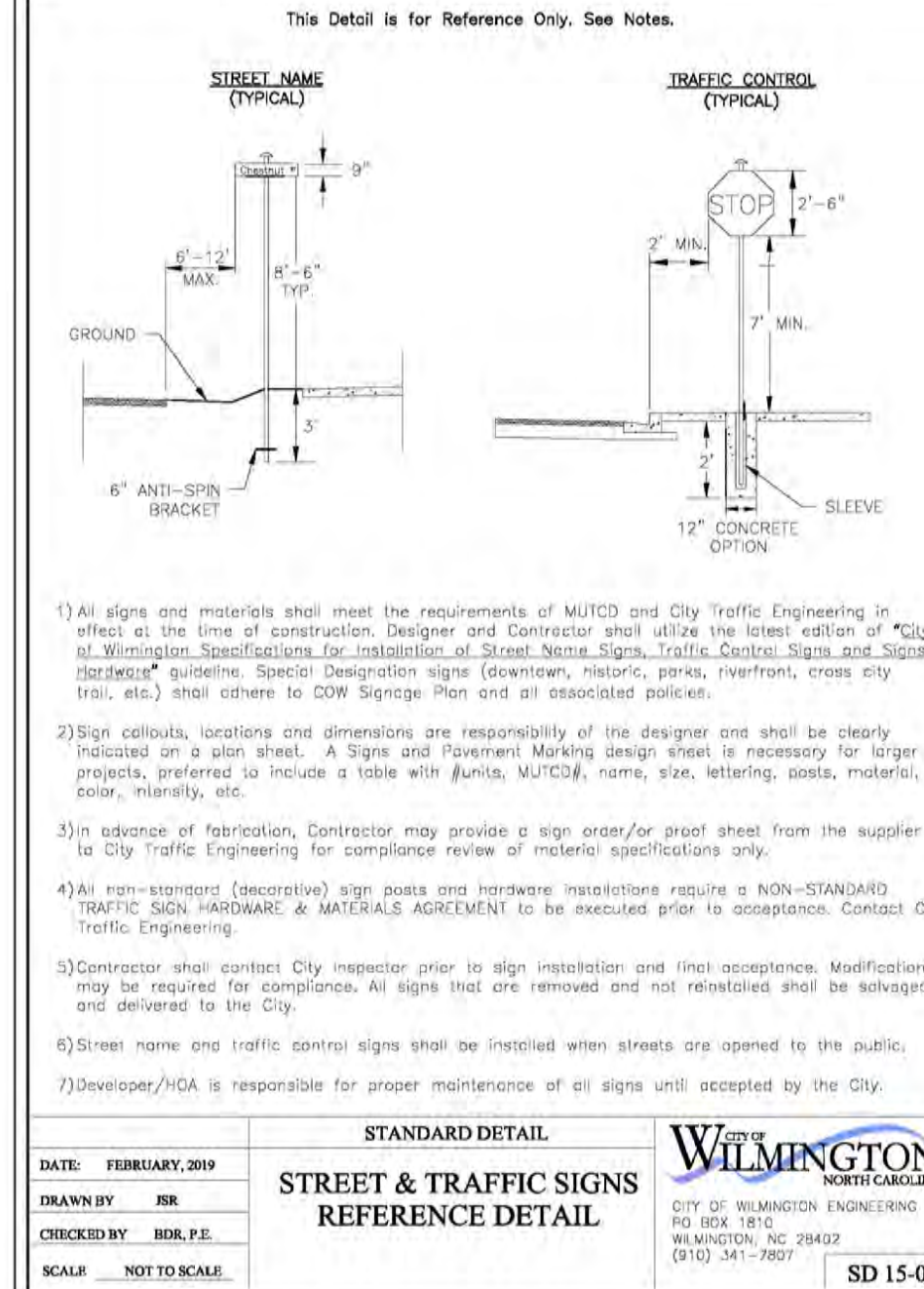
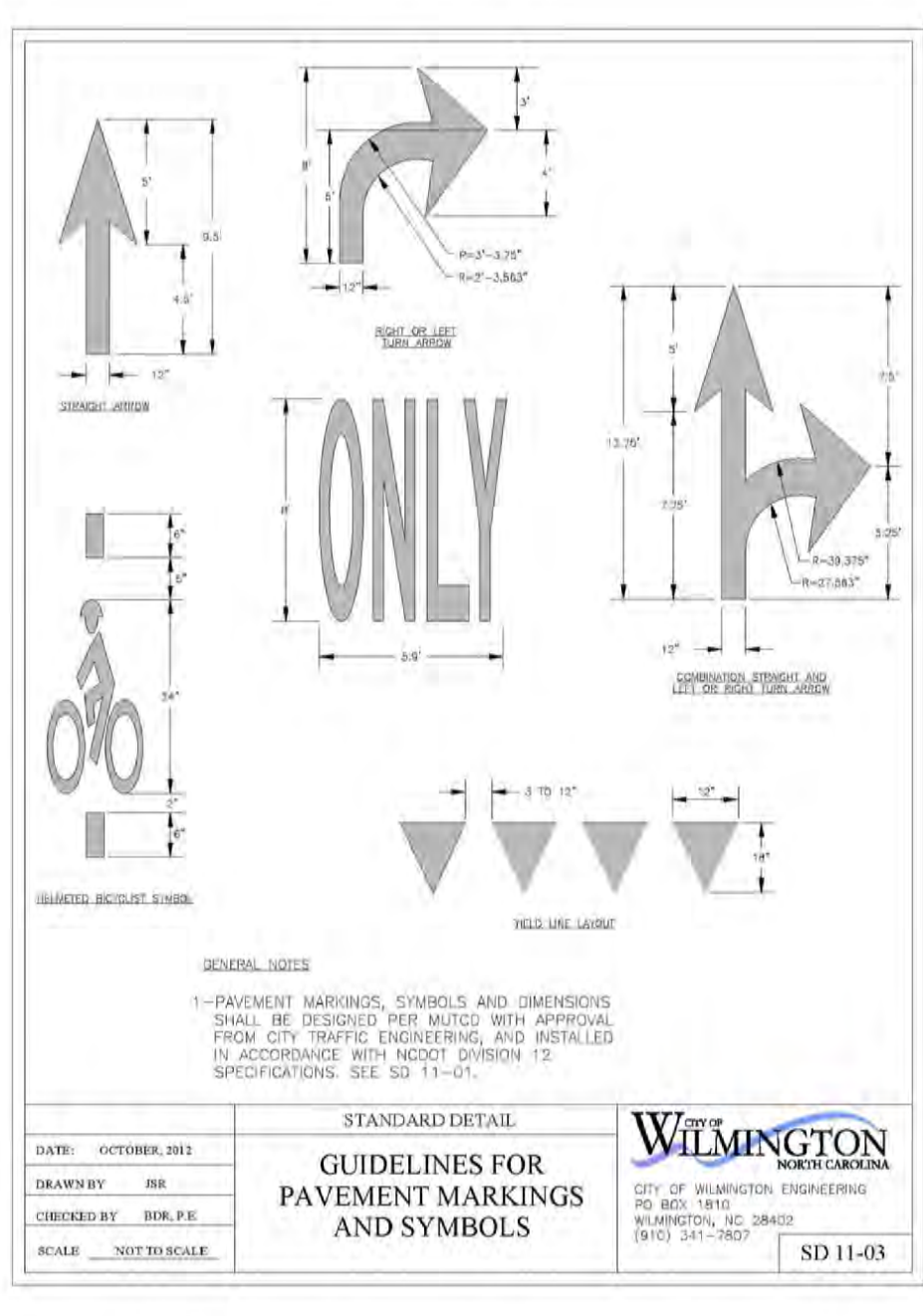
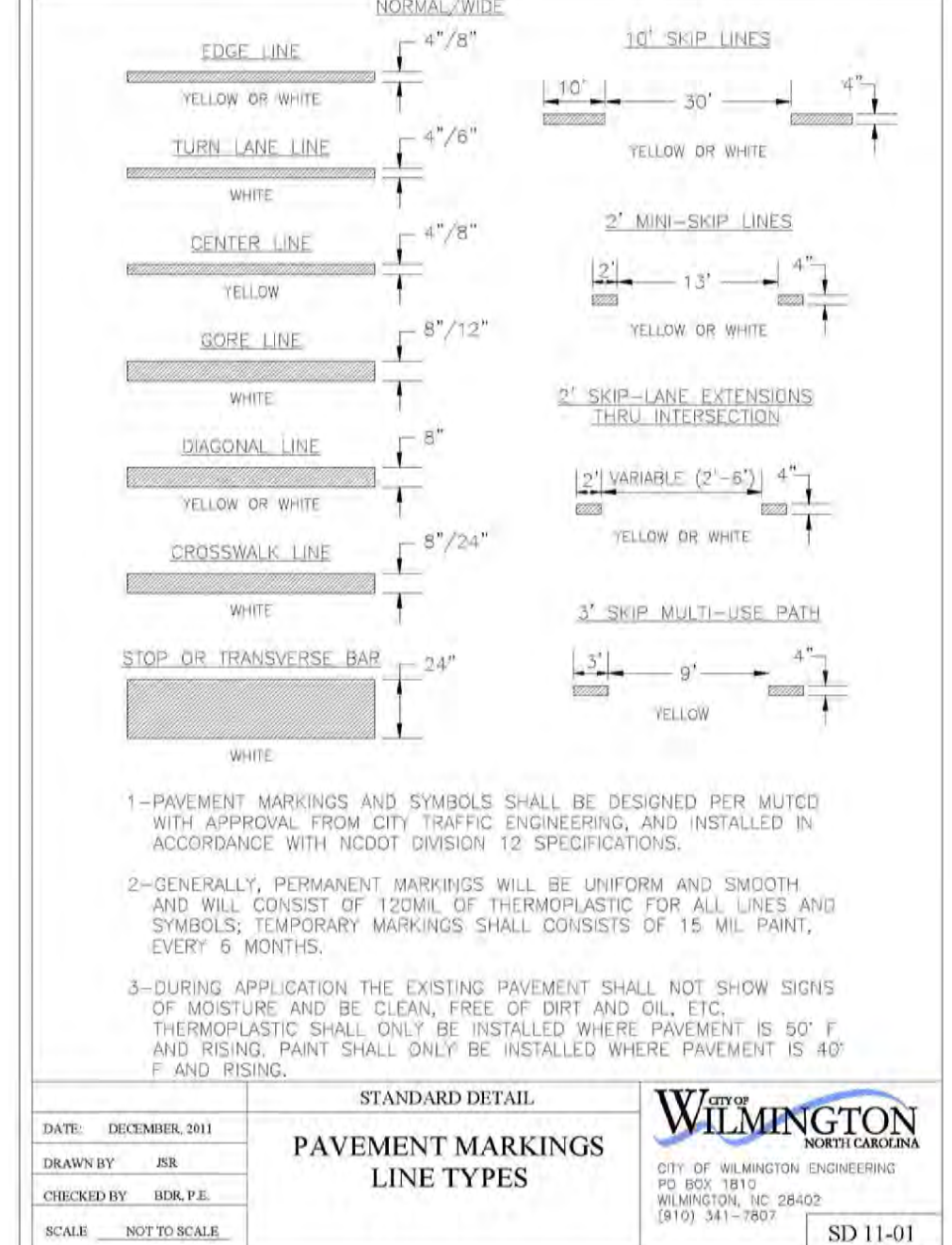
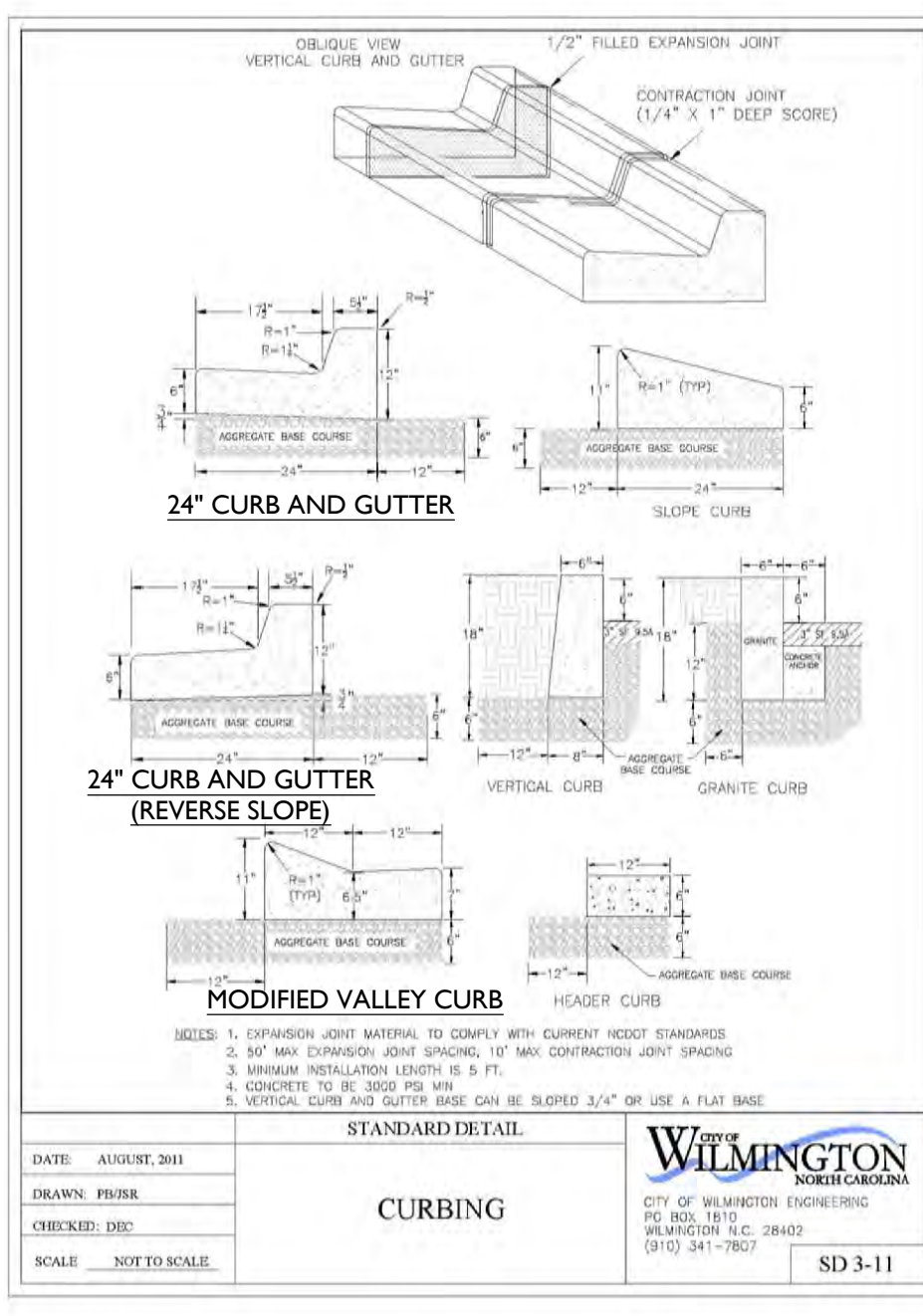
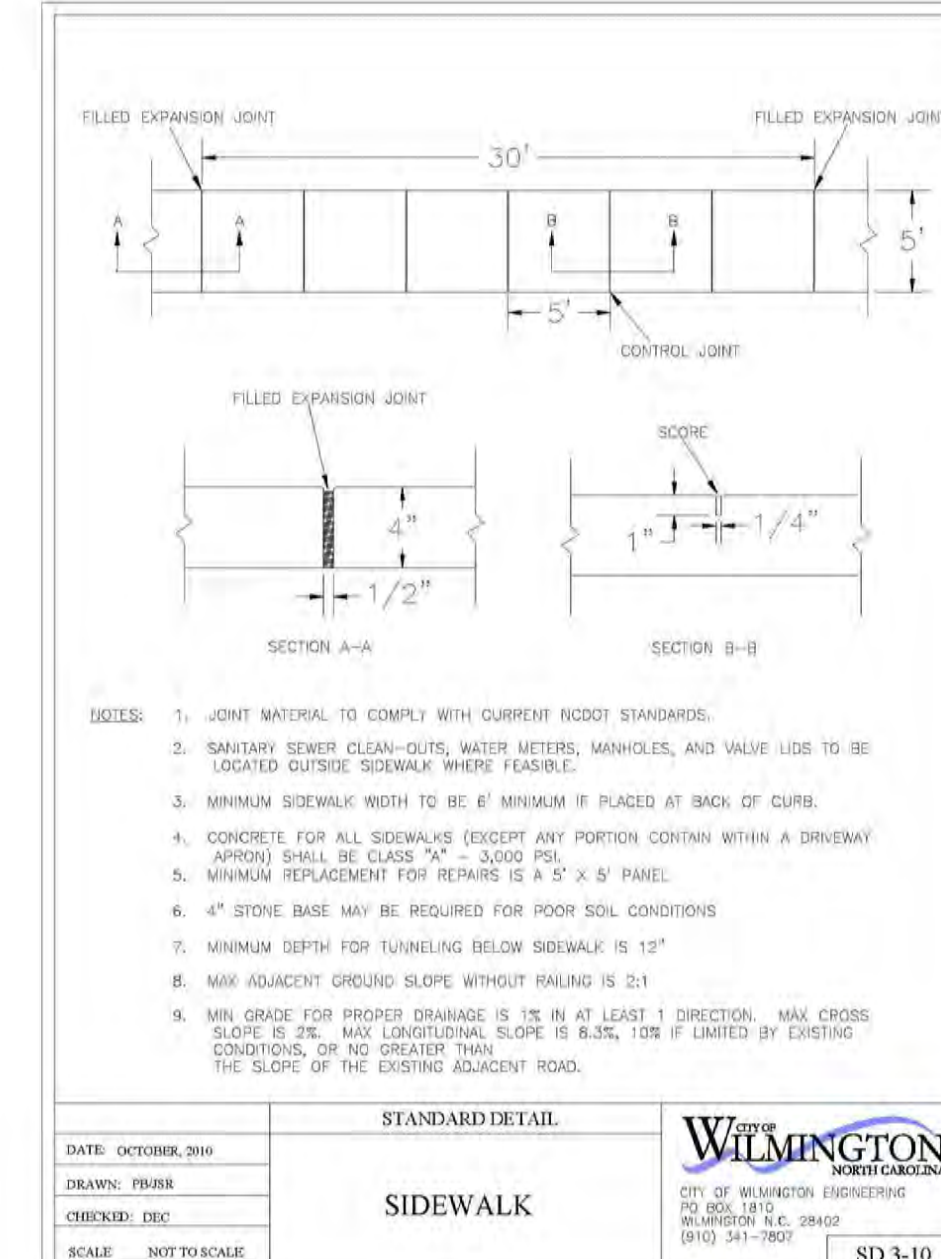
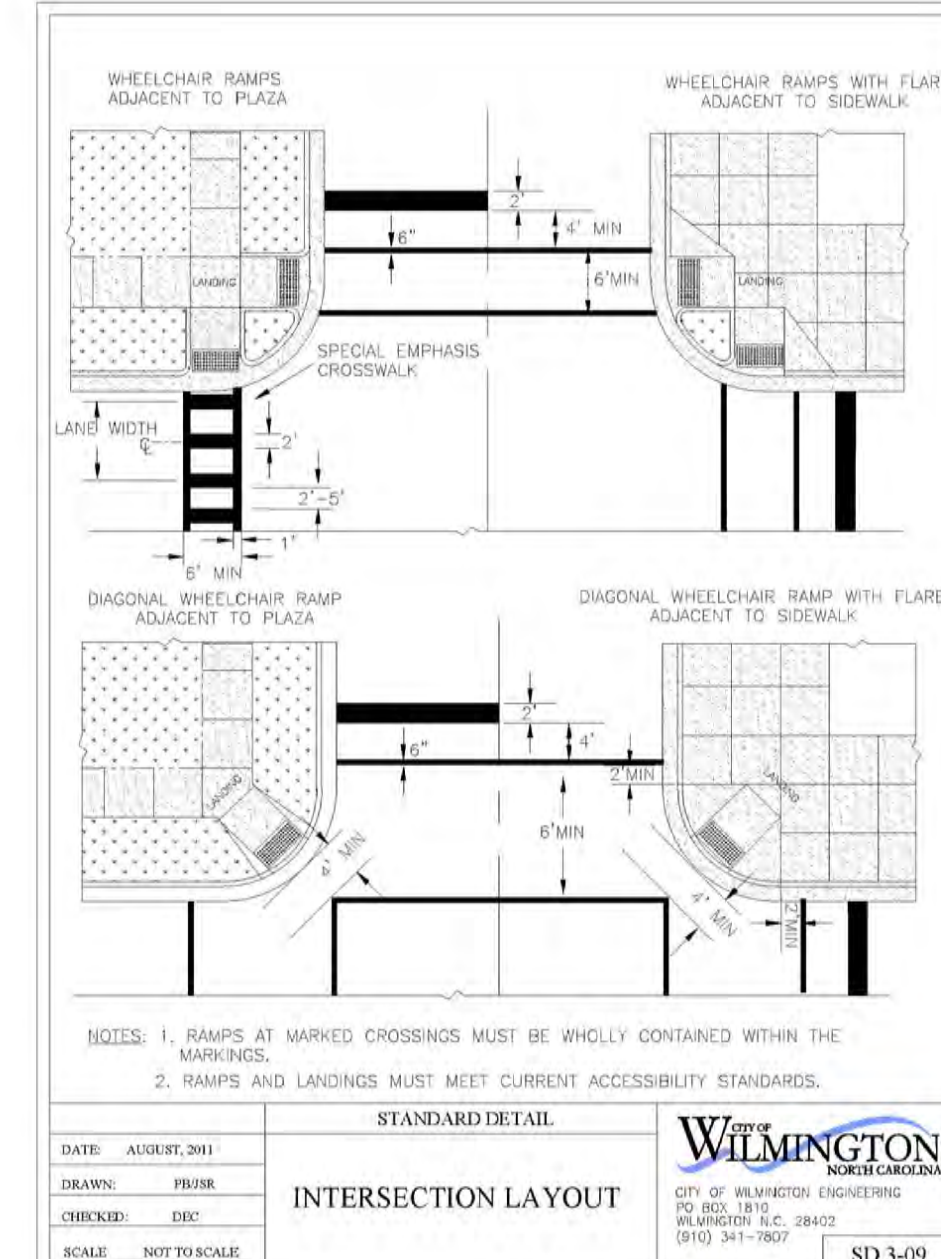
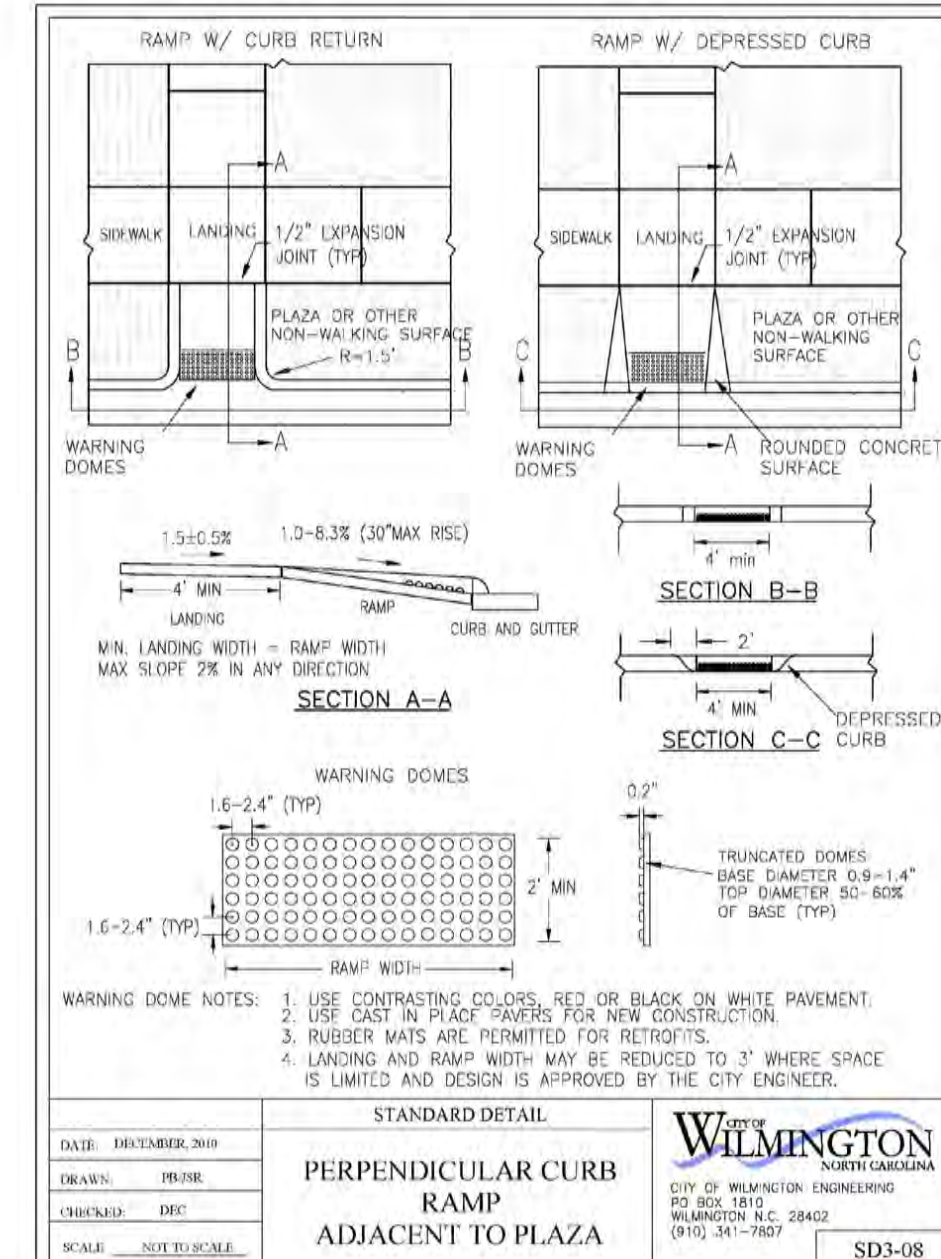
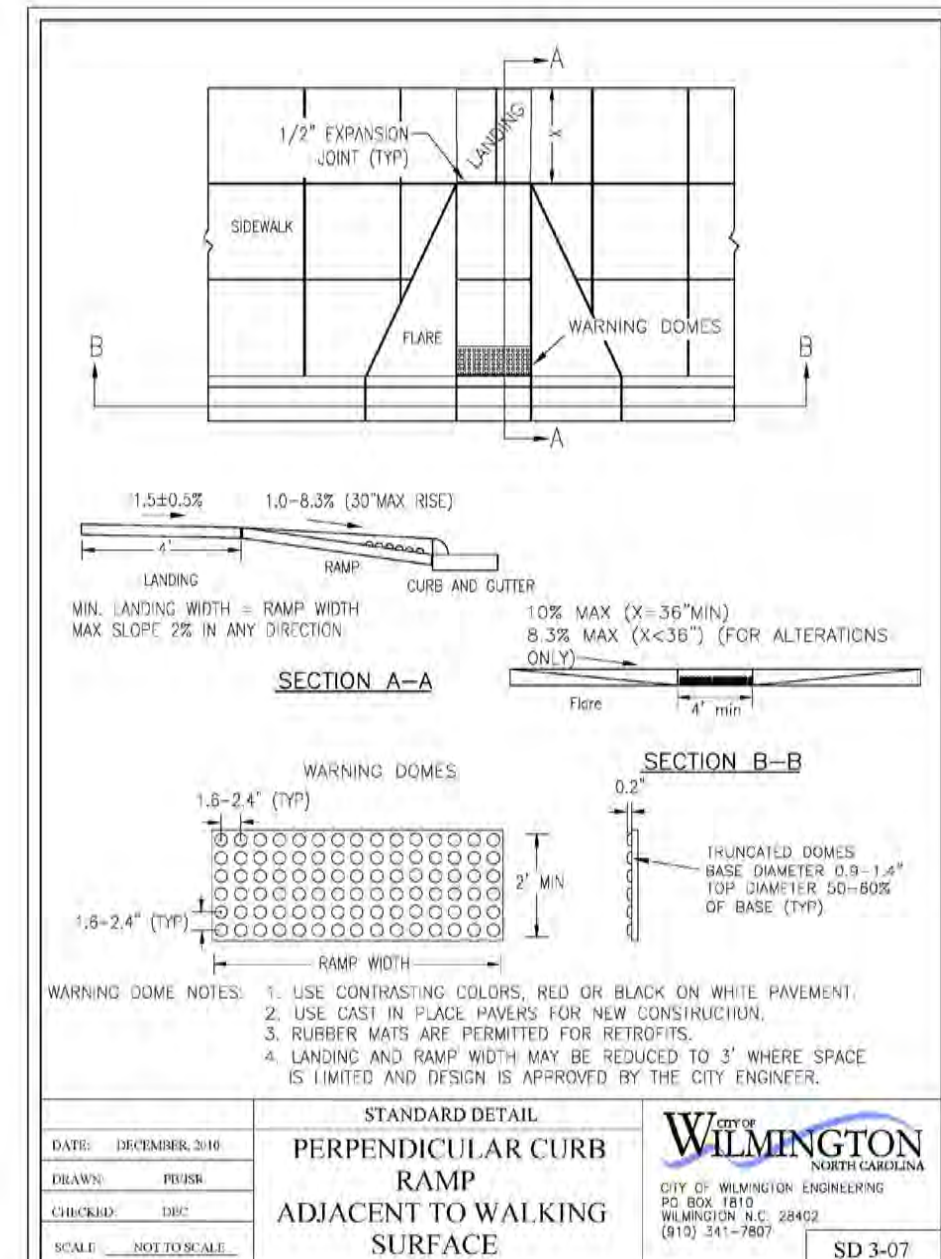
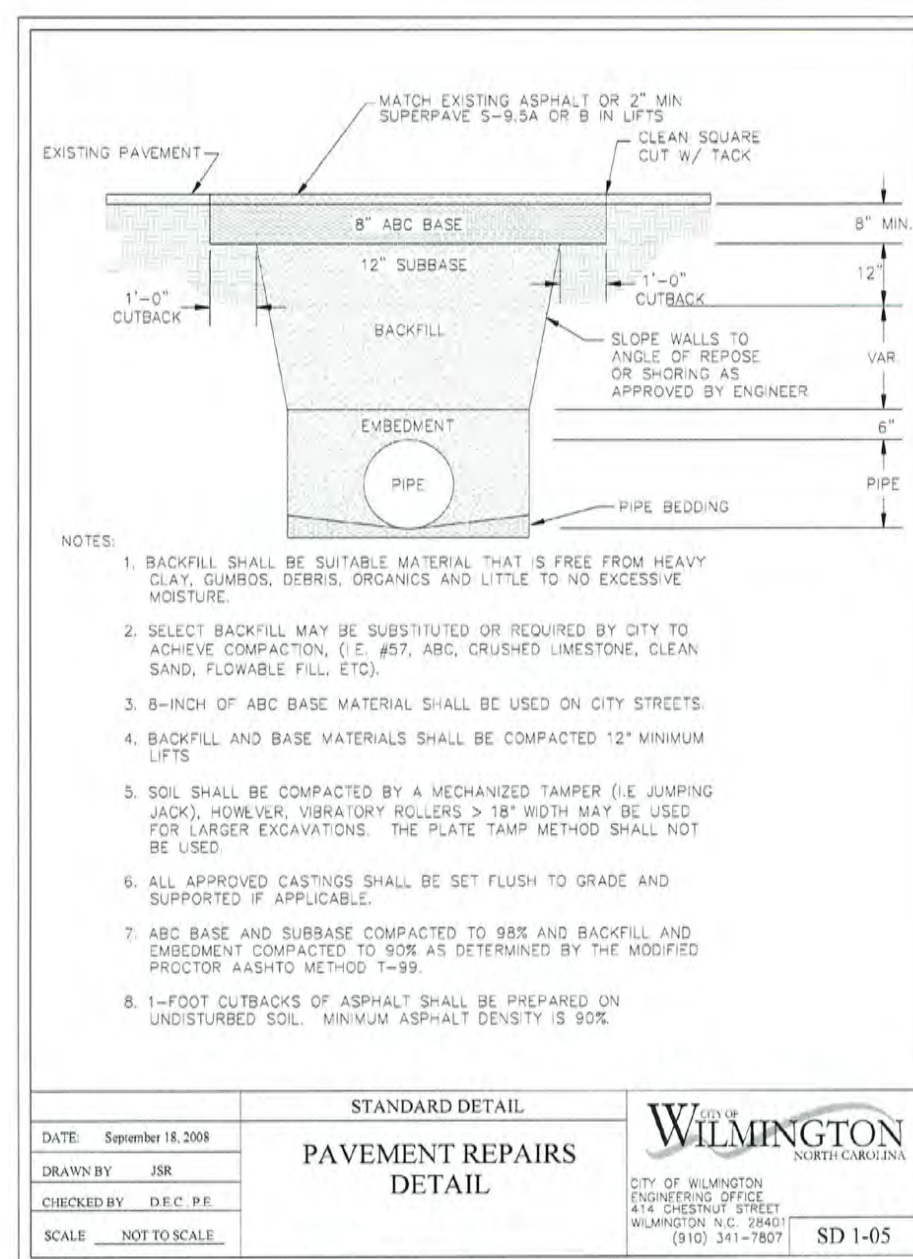
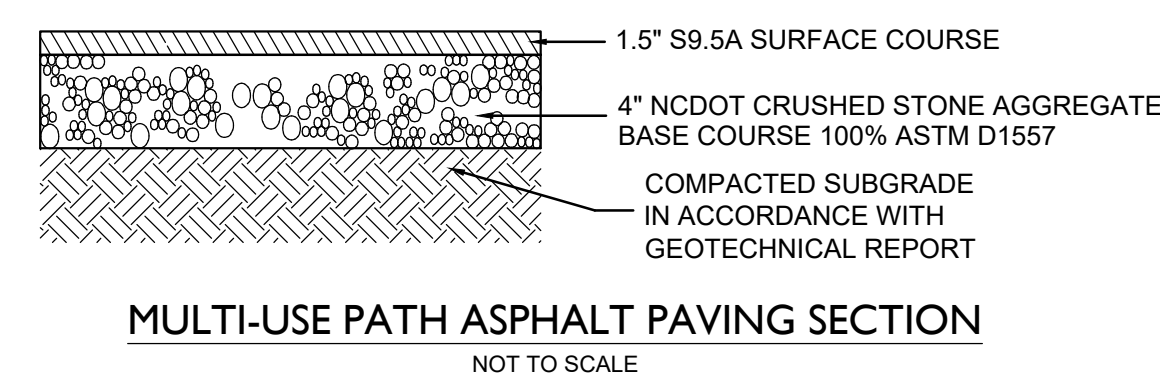
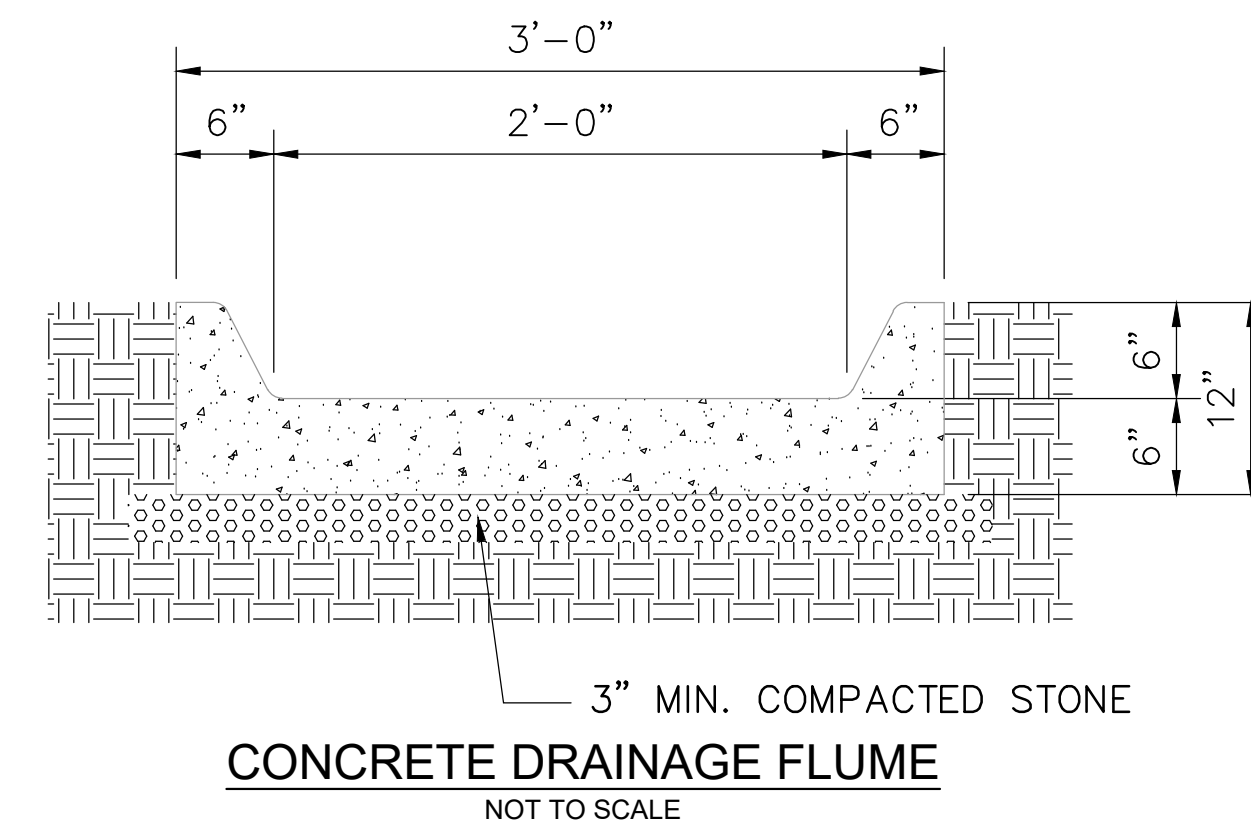
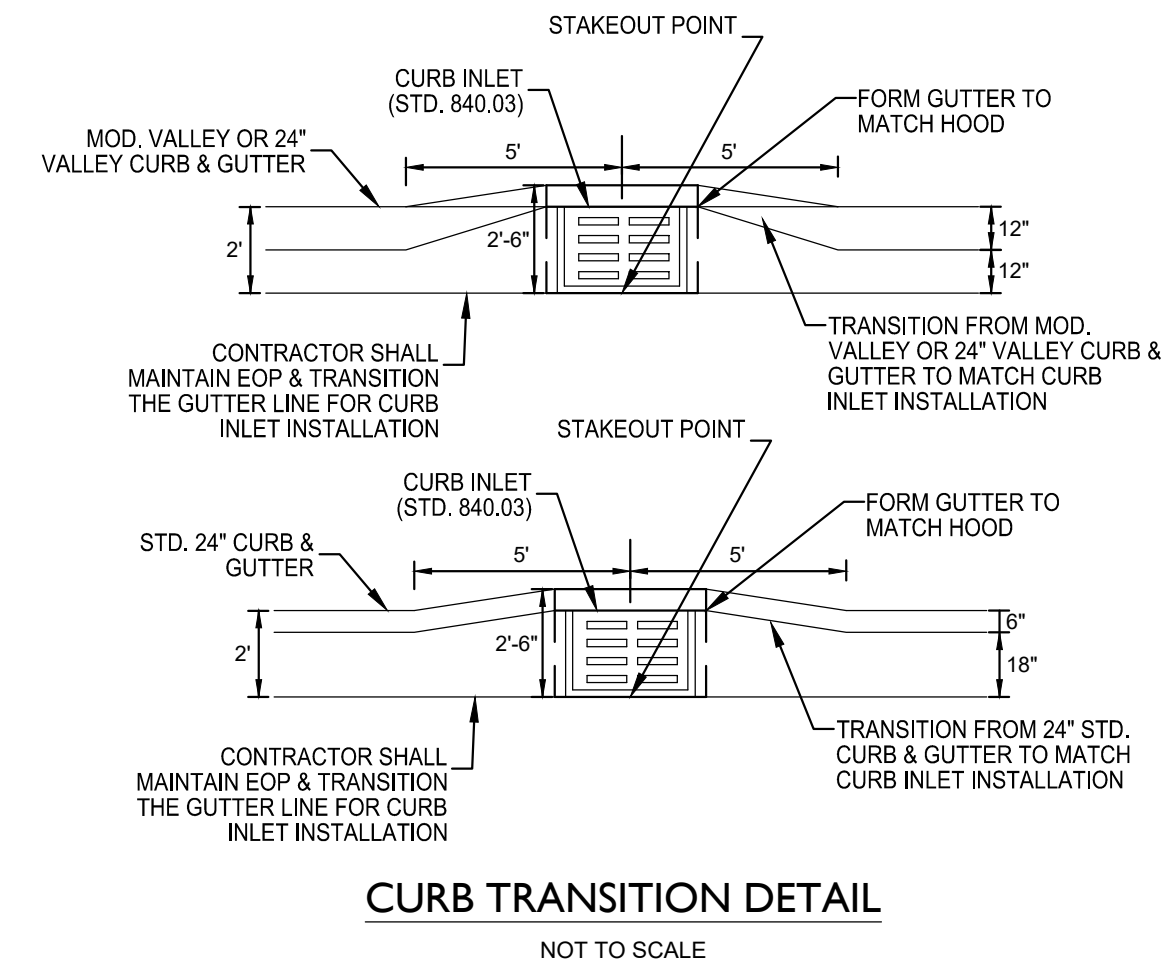
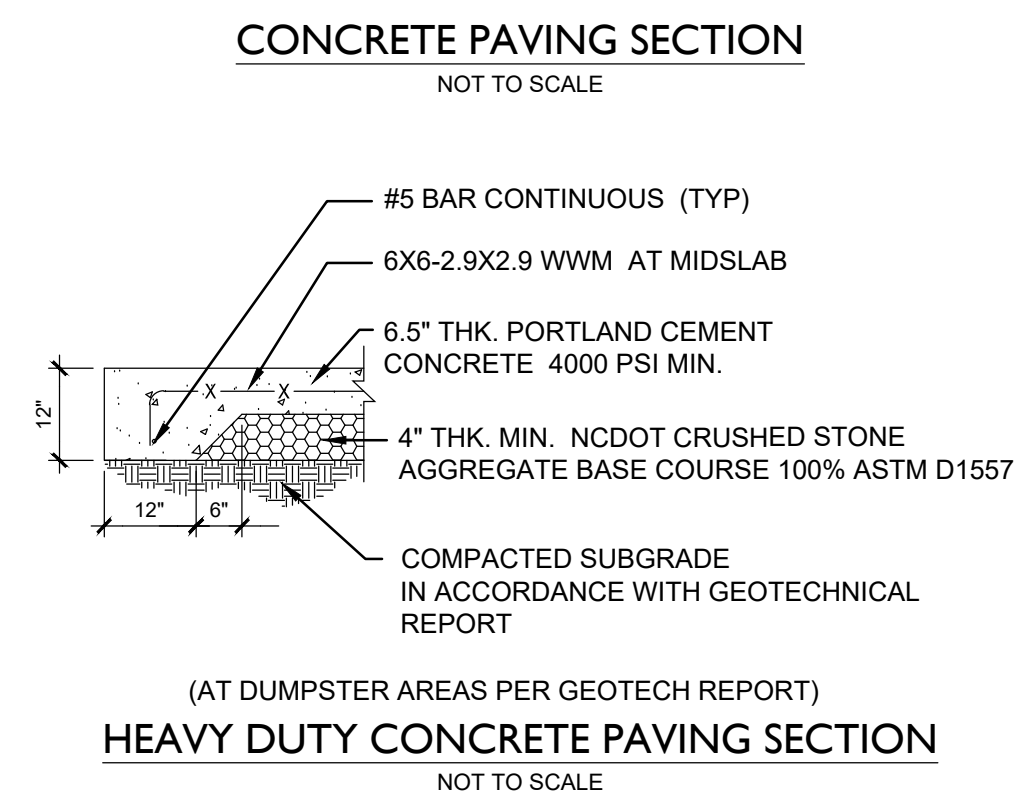
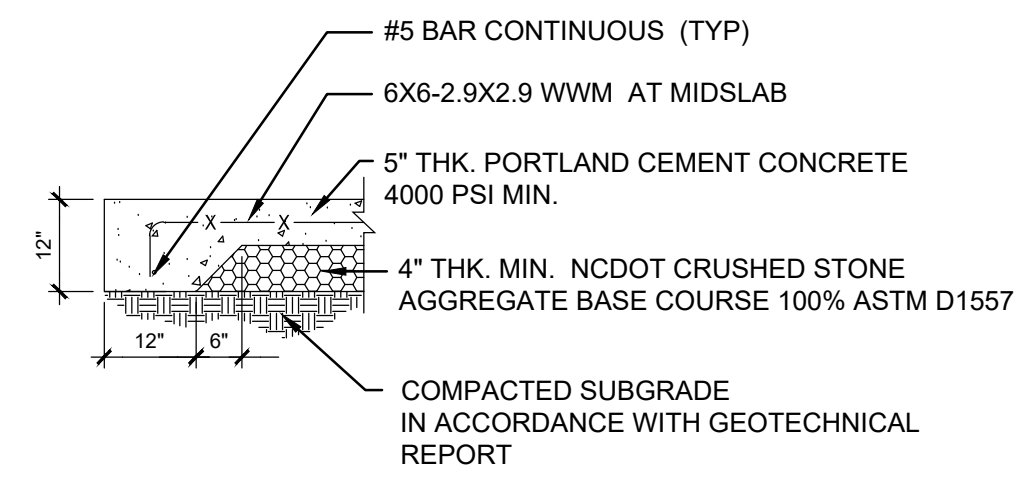
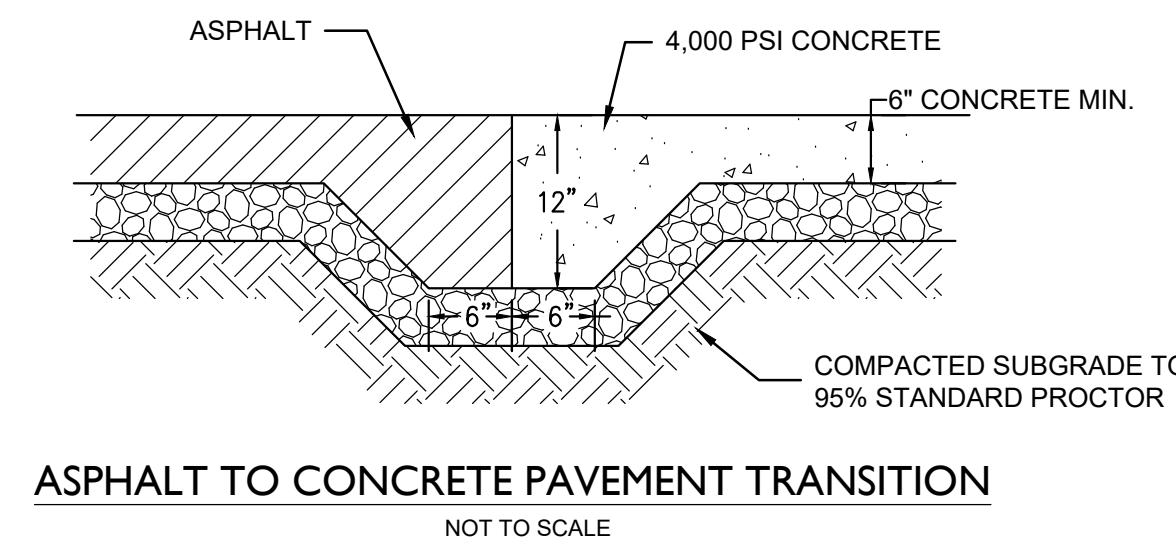
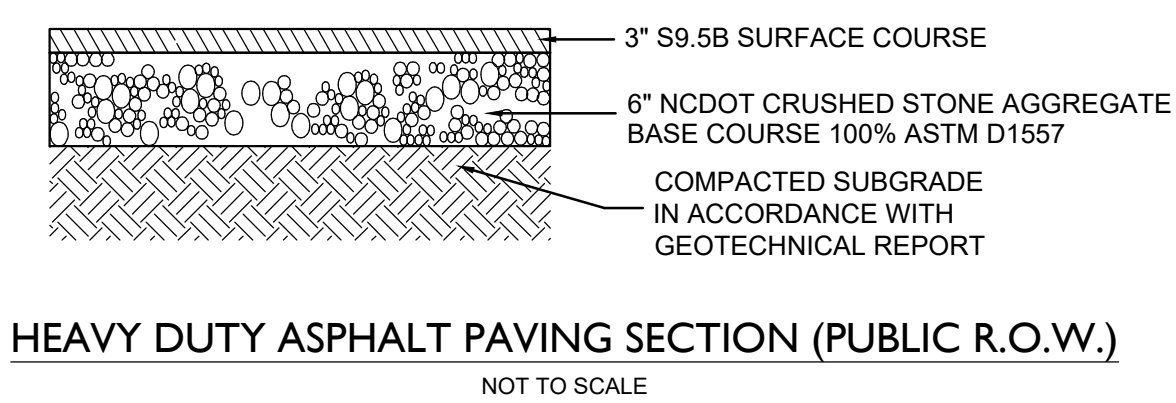
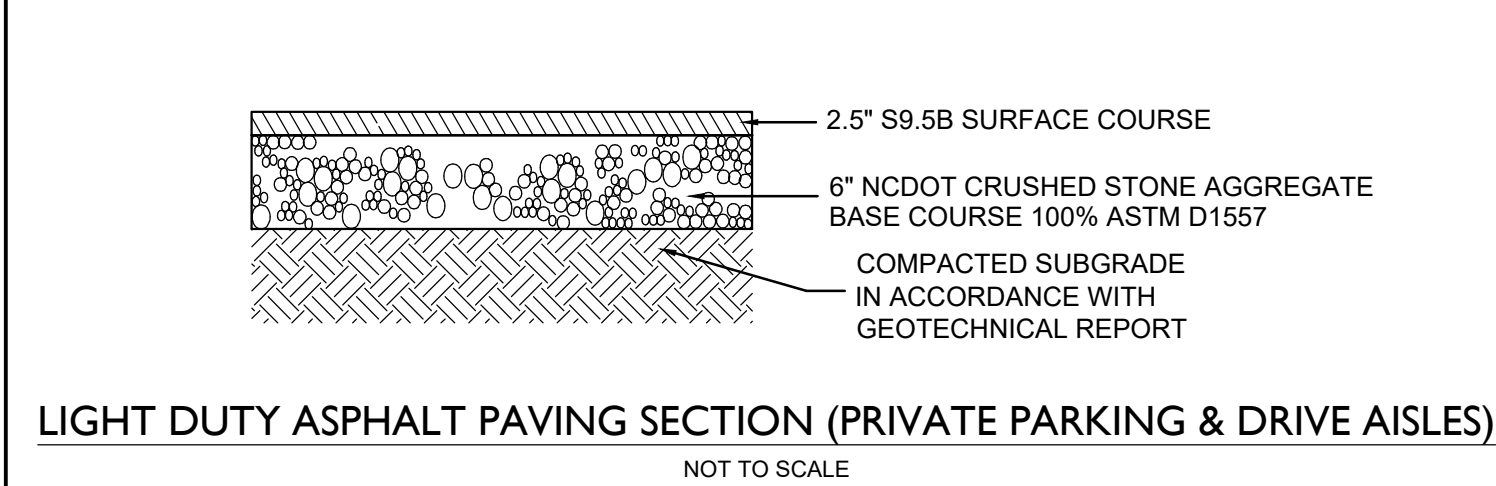
SEWER PROFILE
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

PROJECT STATUS:
 CONCEPTUAL LAYOUT:
 PRELIMINARY LAYOUT:
 RELEASED FOR CONST.

DRAWING INFORMATION:
 DATE: 03/25/21
 DESIGNED: AD
 CHECKED: DF
 DRAWN: DF

Professional Seal redacted on electronic copy per City of Wilmington Policy

PEI JOB#: 20195.PE



REVISIONS:

CLIENT INFORMATION:

PARAMOUNT ENGINEERING

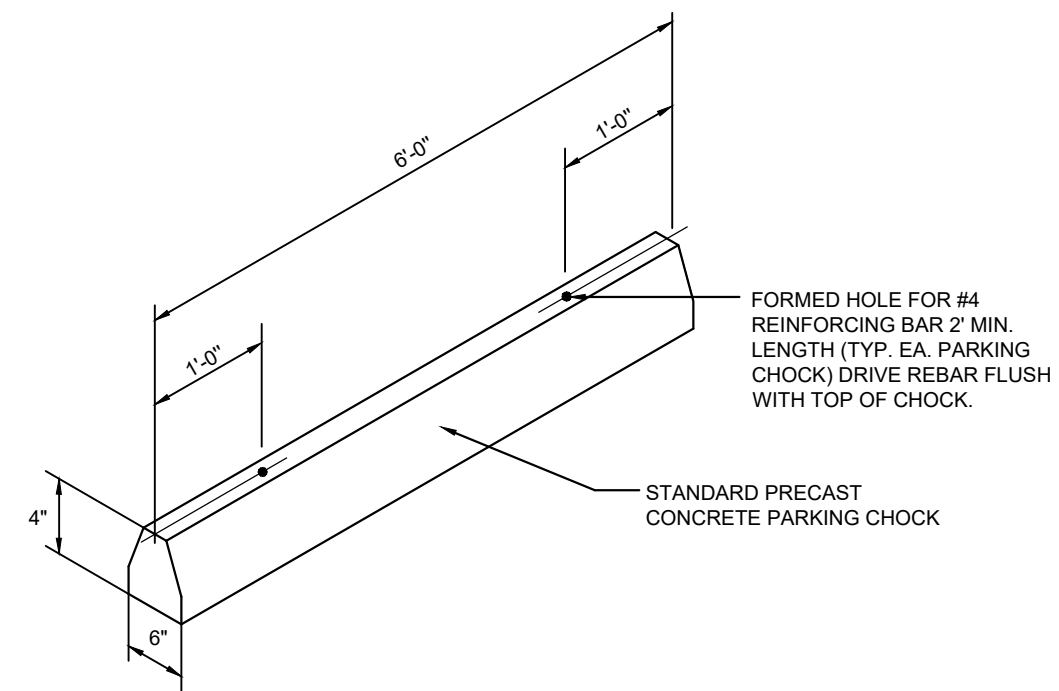
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS:
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONSTRUCTION

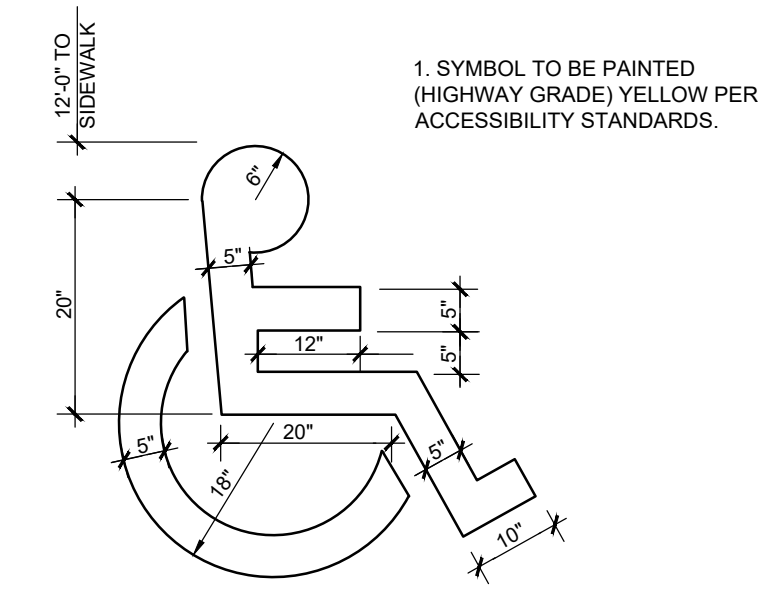
DRAWING INFORMATION:
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AS NOTED
DESIGNED: DRP
DRAWN: FRB
CHECKED: FRB

Professional Seal redacted on electronic copy per City of Wilmington Policy

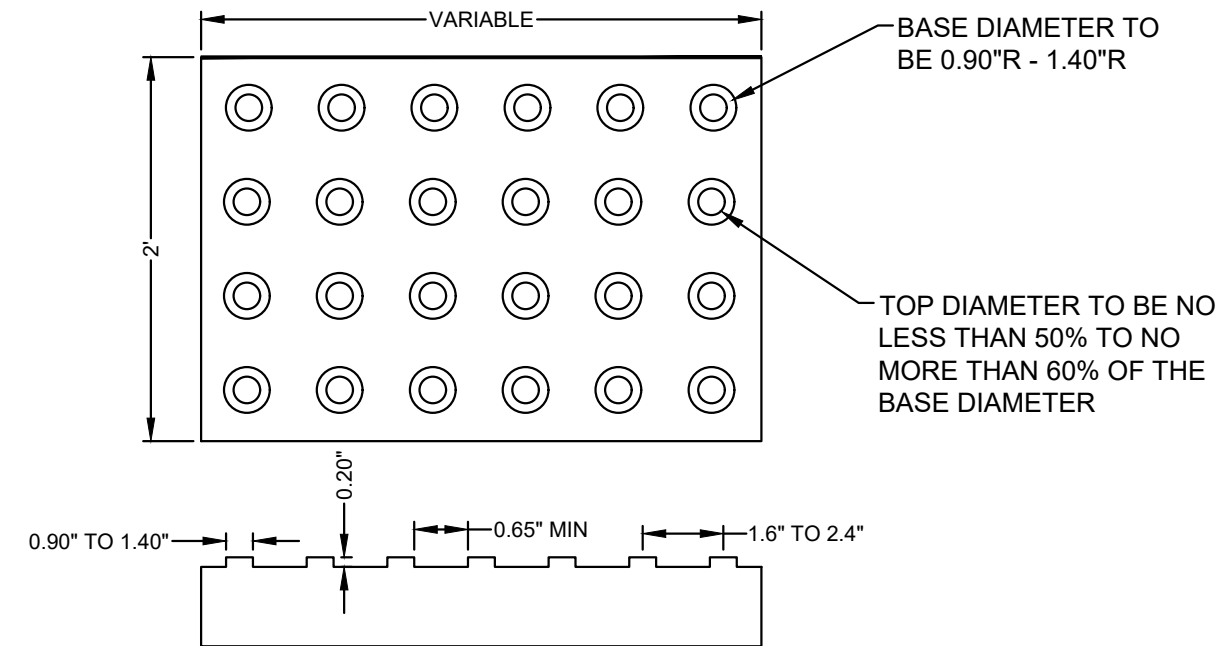
PEI JOB#: 20195.PE



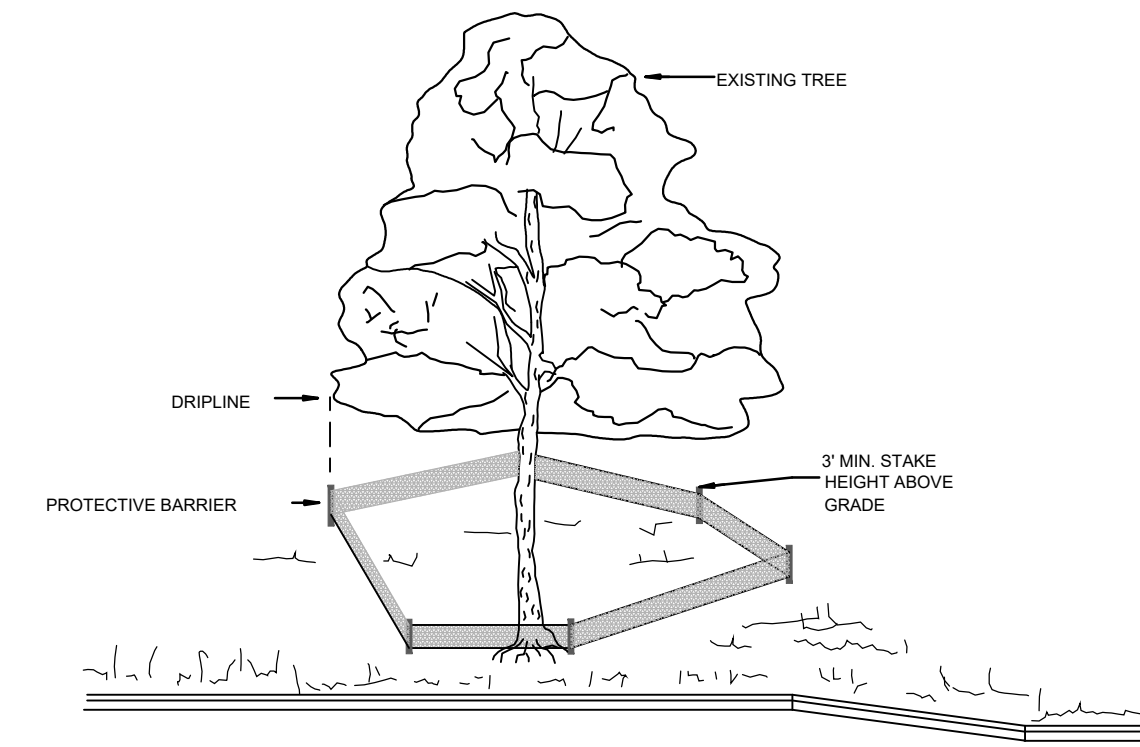
WHEEL STOP
NOT TO SCALE



HANDICAPPED PARKING SYMBOL
NOT TO SCALE

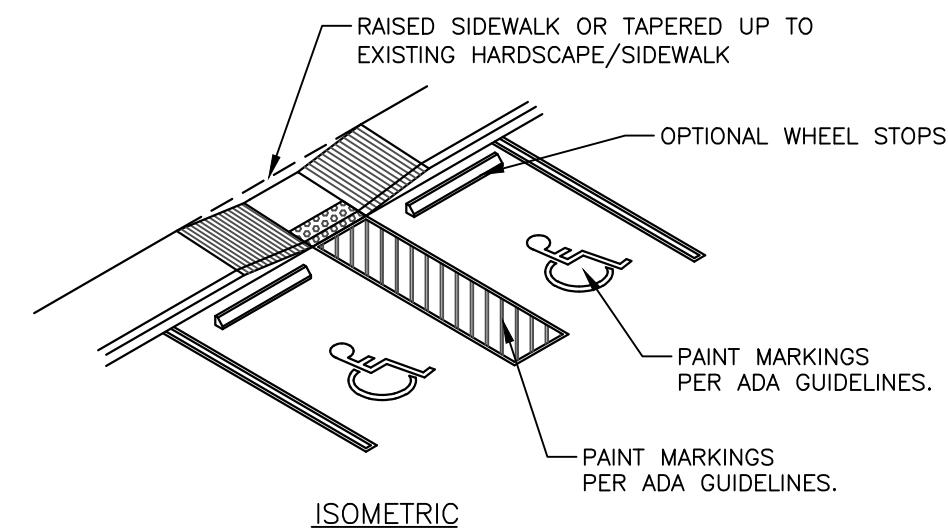


DETECTABLE WARNING MAT
NOT TO SCALE

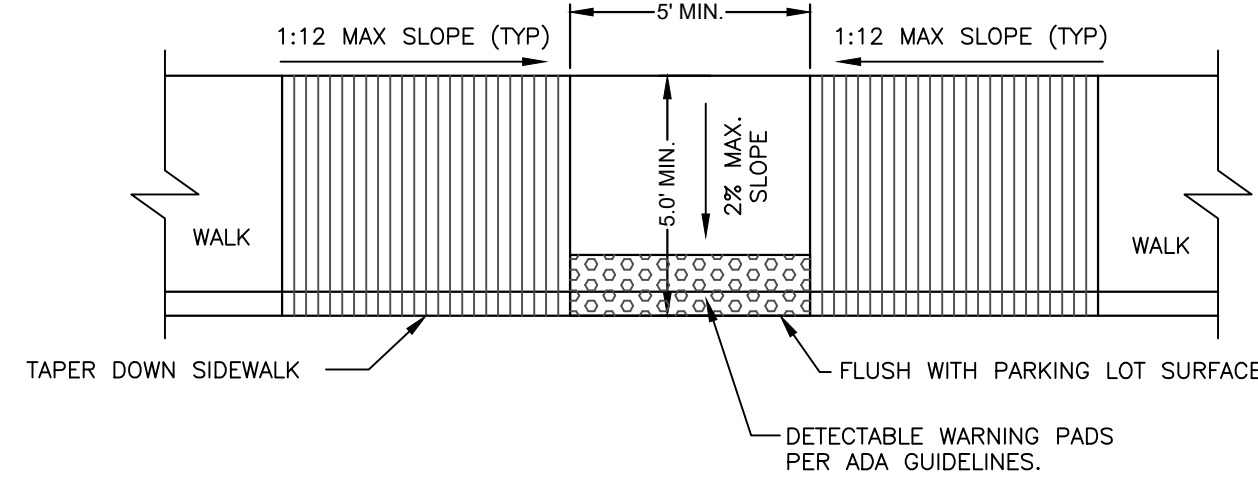


NOTE:
TREES TO BE SAVED WILL BE CLEARLY MARKED PRIOR TO CONSTRUCTION AND A PROTECTIVE BARRIER IS TO BE INSTALLED AT THE DRIP LINE. DRIP LINE - THE AREA OF SOIL DIRECTLY BENEATH THE TREE EXTENDING OUT TO THE TIPS OF THE OUTERMOST BRANCHES.

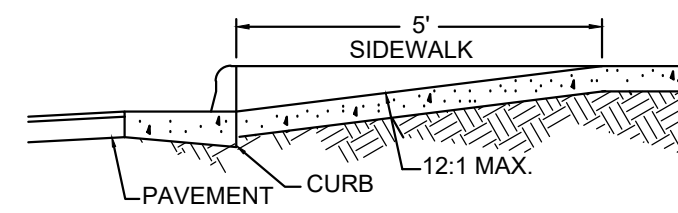
METHOD OF TREE PROTECTION DURING CONSTRUCTION
NOT TO SCALE



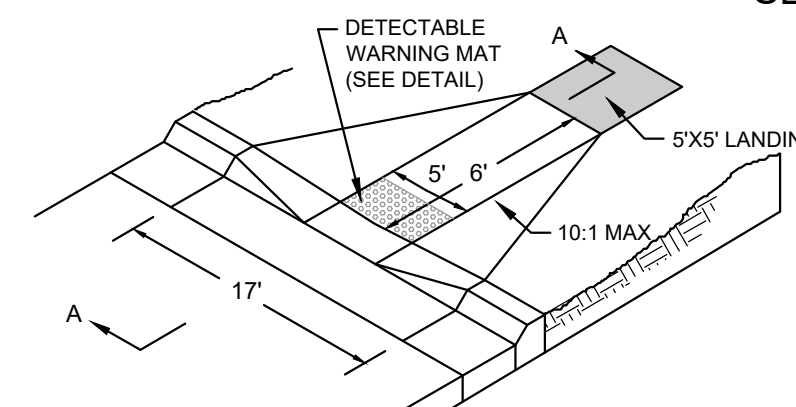
ISOMETRIC



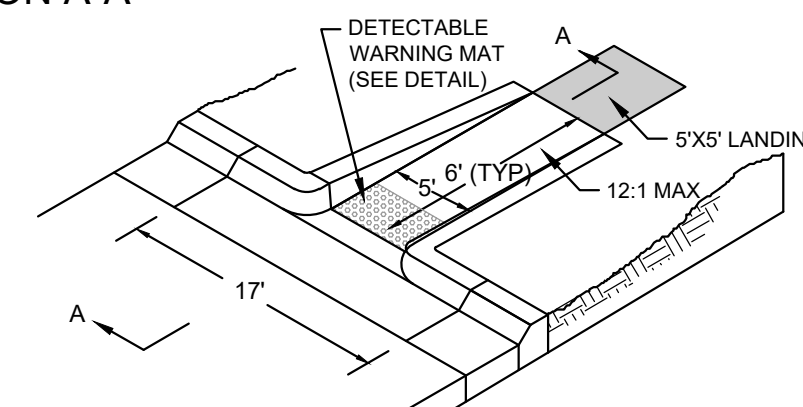
WHEELCHAIR RAMP - TYPE 1



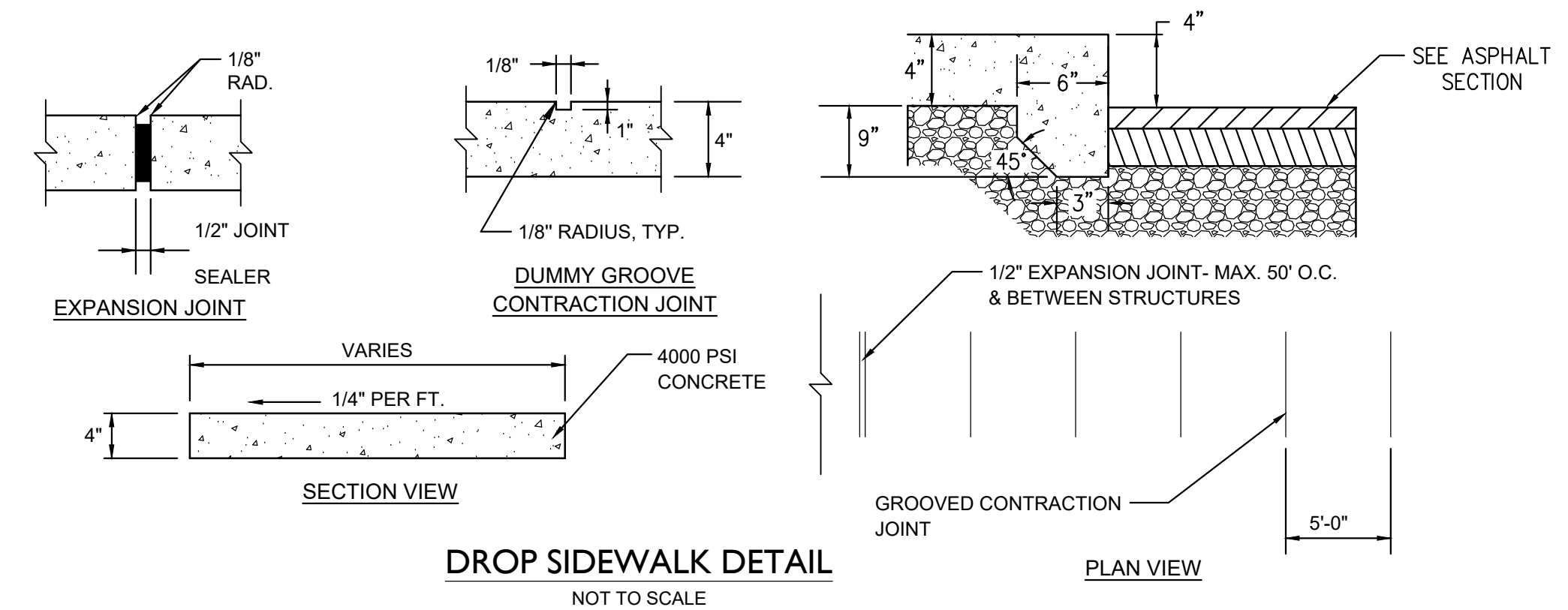
SECTION A-A



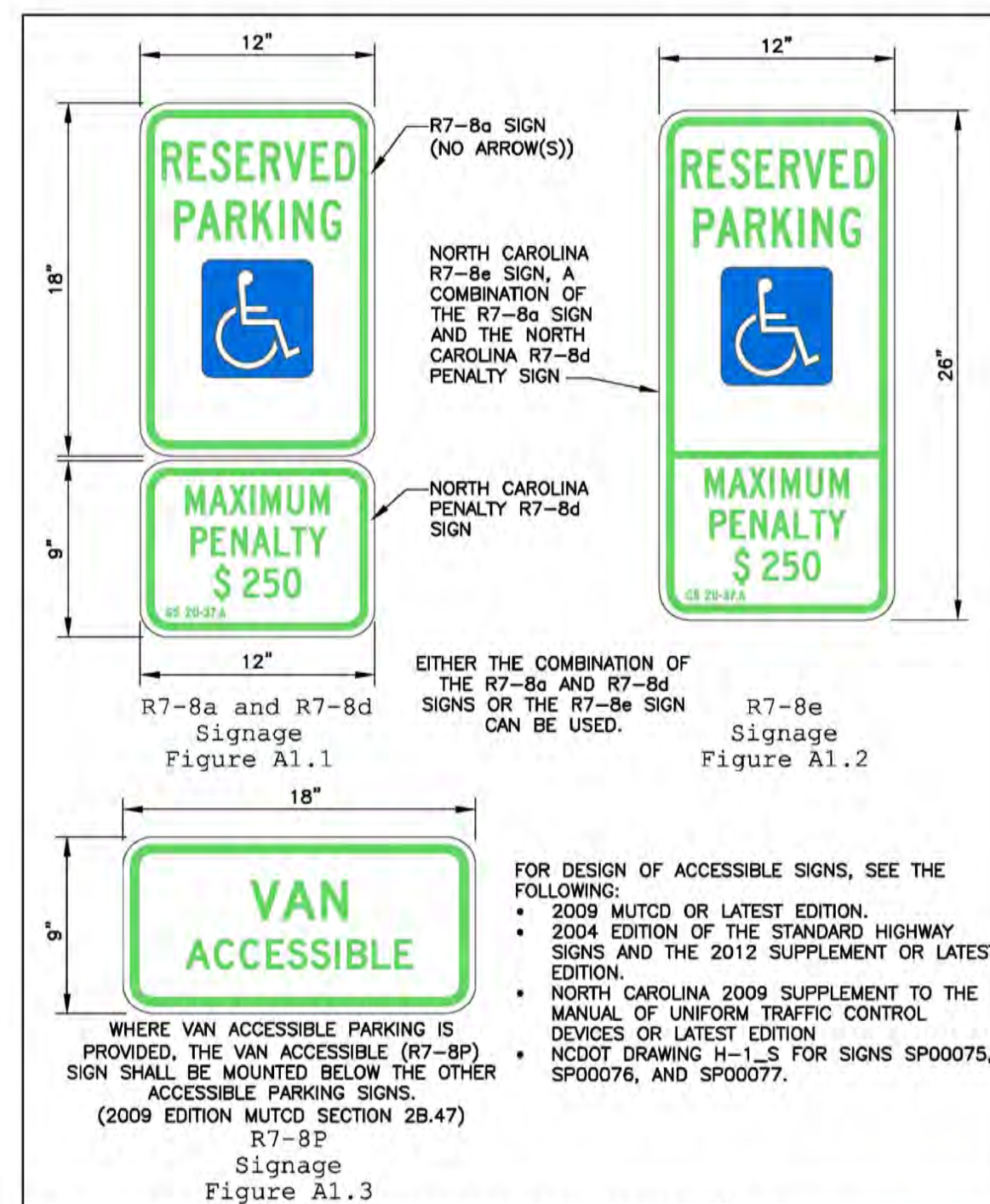
TYPE 2 - WHEELCHAIR RAMP (DROP CURB)
NOT TO SCALE



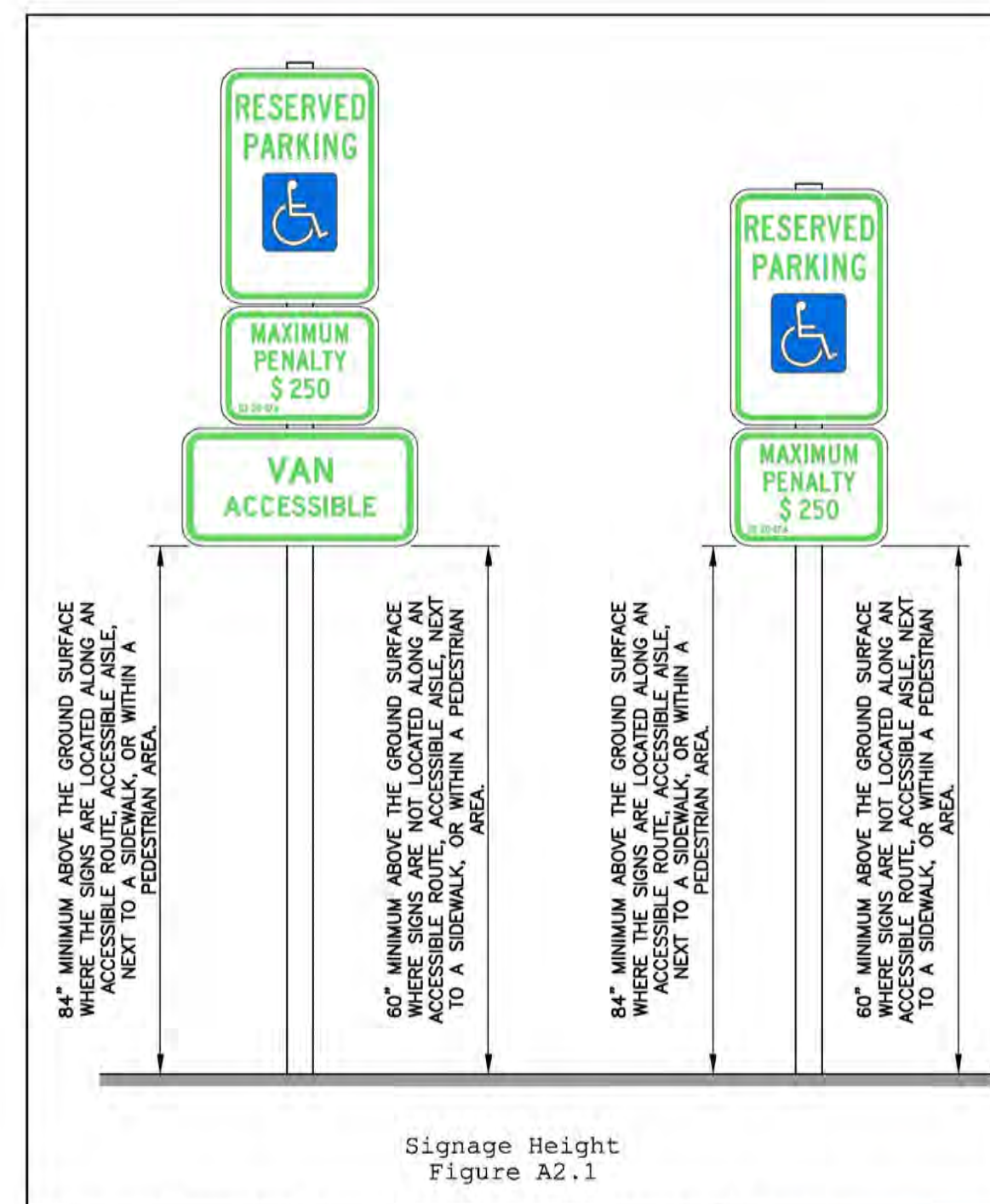
TYPE 3 - WHEELCHAIR RAMP (CURB RETURN)
NOT TO SCALE



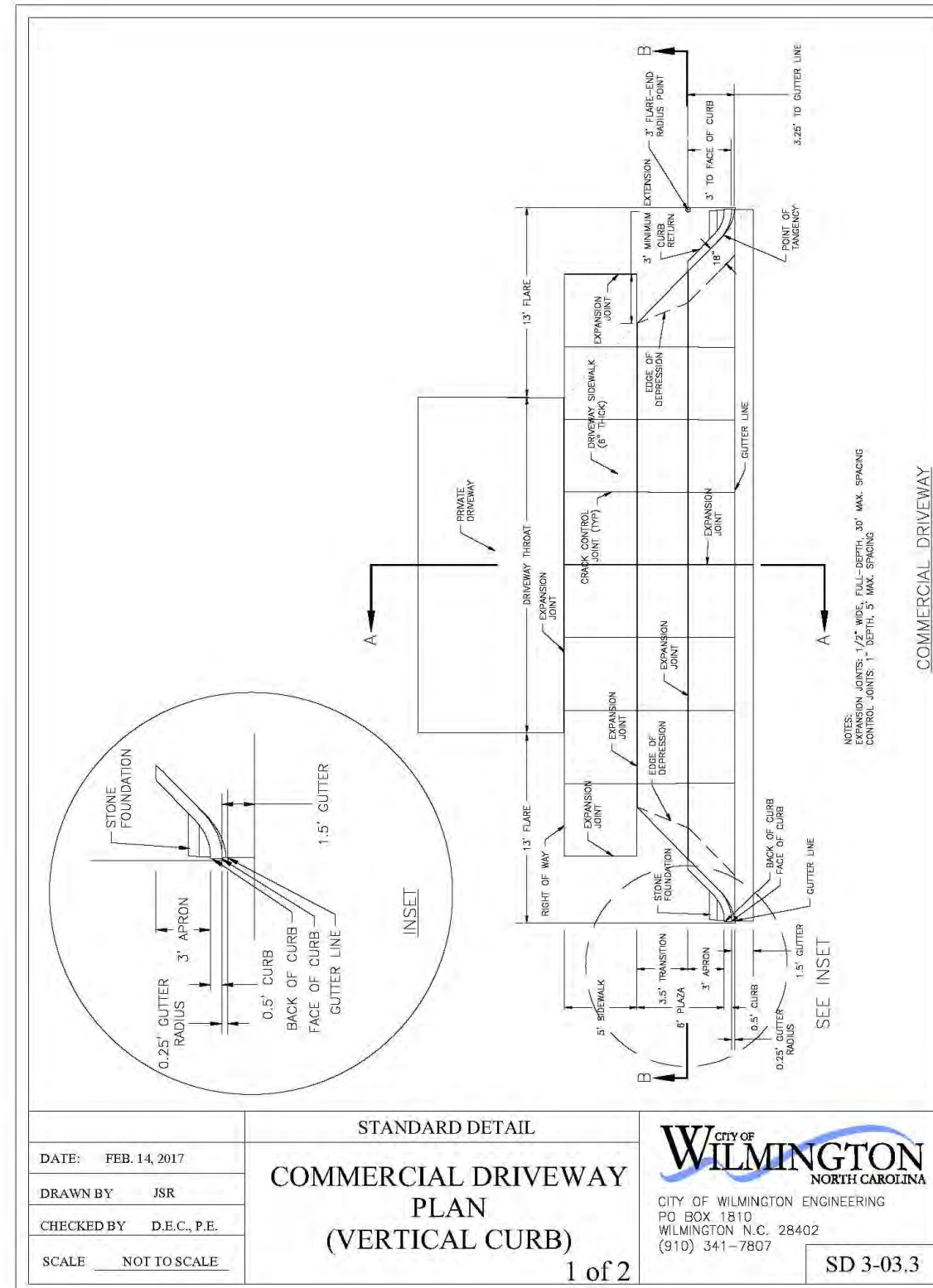
DROP SIDEWALK DETAIL
NOT TO SCALE



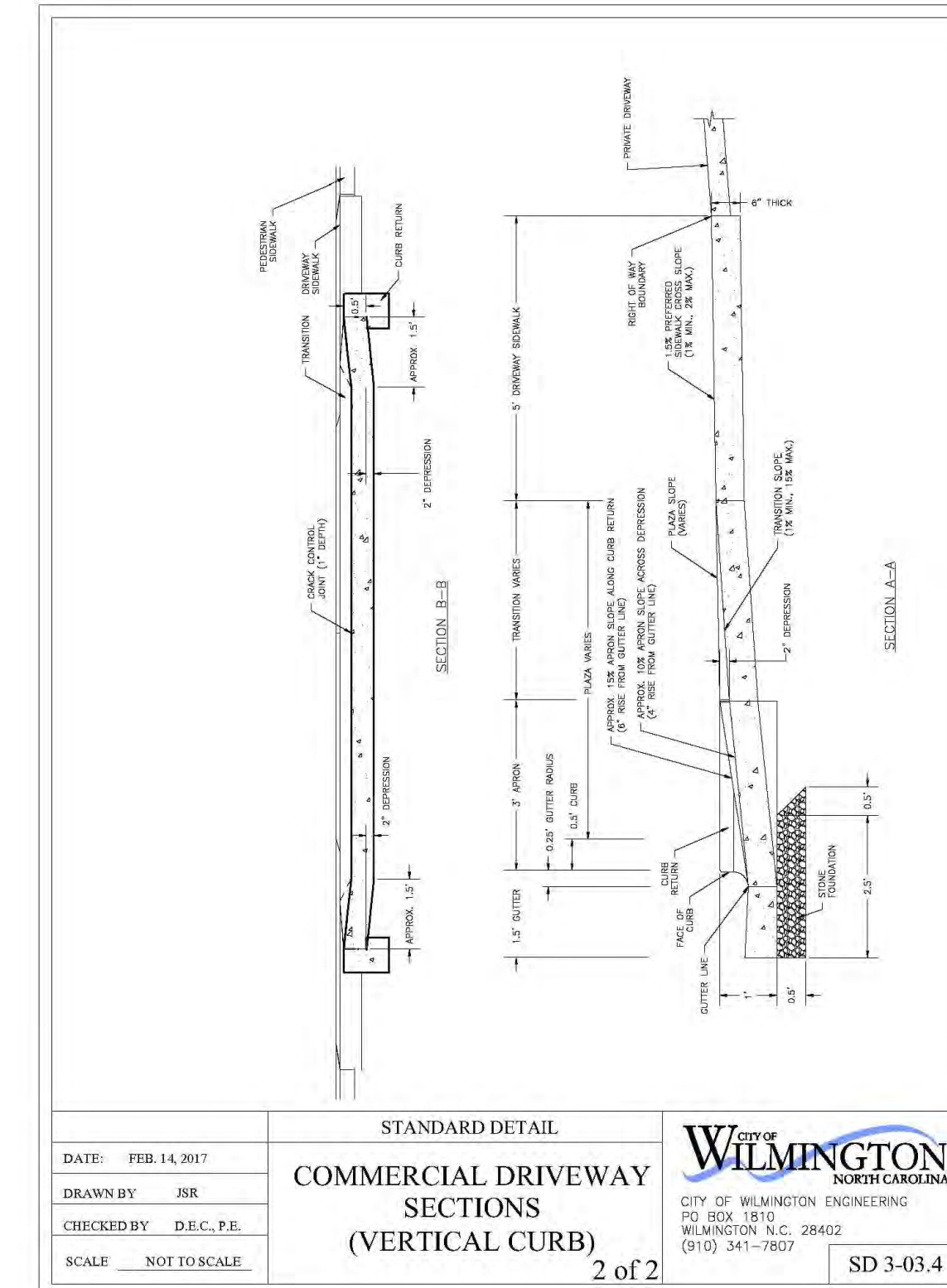
Signage Figure A1.1
Signage Figure A1.2
Signage Figure A1.3



Signage Height Figure A2.1



STANDARD DETAIL
COMMERCIAL DRIVEWAY PLAN (VERTICAL CURB)
DATE: FEB. 14, 2017
DRAWN BY: J.R.
CHECKED BY: D.E.C., P.E.
SCALE: NOT TO SCALE
CITY OF WILMINGTON NORTH CAROLINA
WILMINGTON, N.C. 28402
(910) 341-7807
SD 3-03.3



STANDARD DETAIL
COMMERCIAL DRIVEWAY SECTIONS (VERTICAL CURB)
DATE: FEB. 14, 2017
DRAWN BY: J.R.
CHECKED BY: D.E.C., P.E.
SCALE: NOT TO SCALE
CITY OF WILMINGTON NORTH CAROLINA
WILMINGTON, N.C. 28402
(910) 341-7807
SD 3-03.4

REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

PARAMOUNT ENGINEERING
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

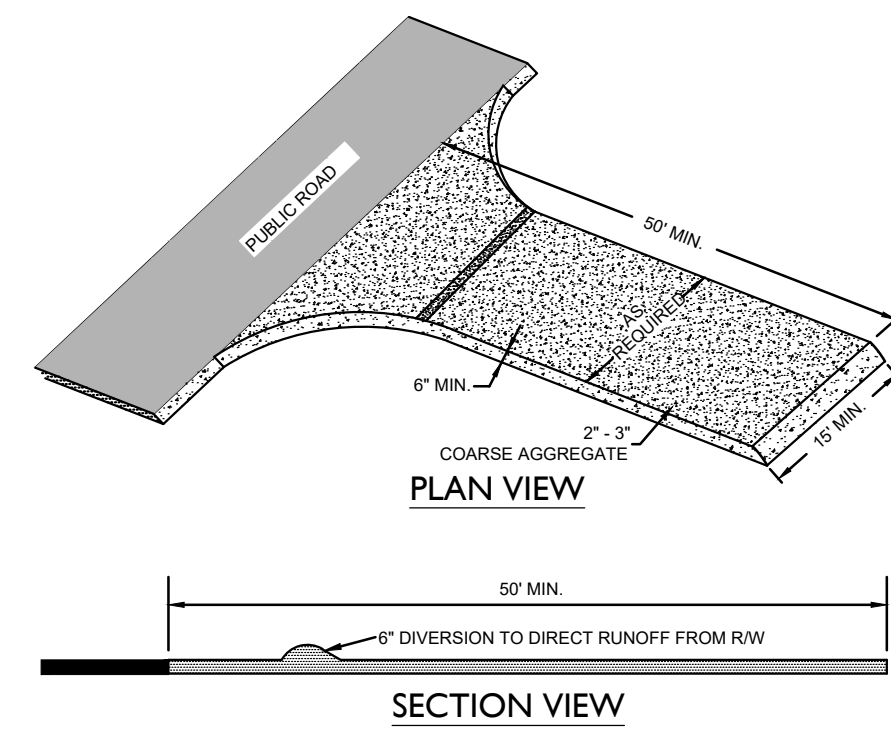
SITE DETAILS
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PROJECT STATUS
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST.
DRAWING INFORMATION
DATE: 02/25/17
AS PER: D.E.C.
DESIGNED: D.E.C.
DRAWN: J.R.
CHECKED: D.E.C.

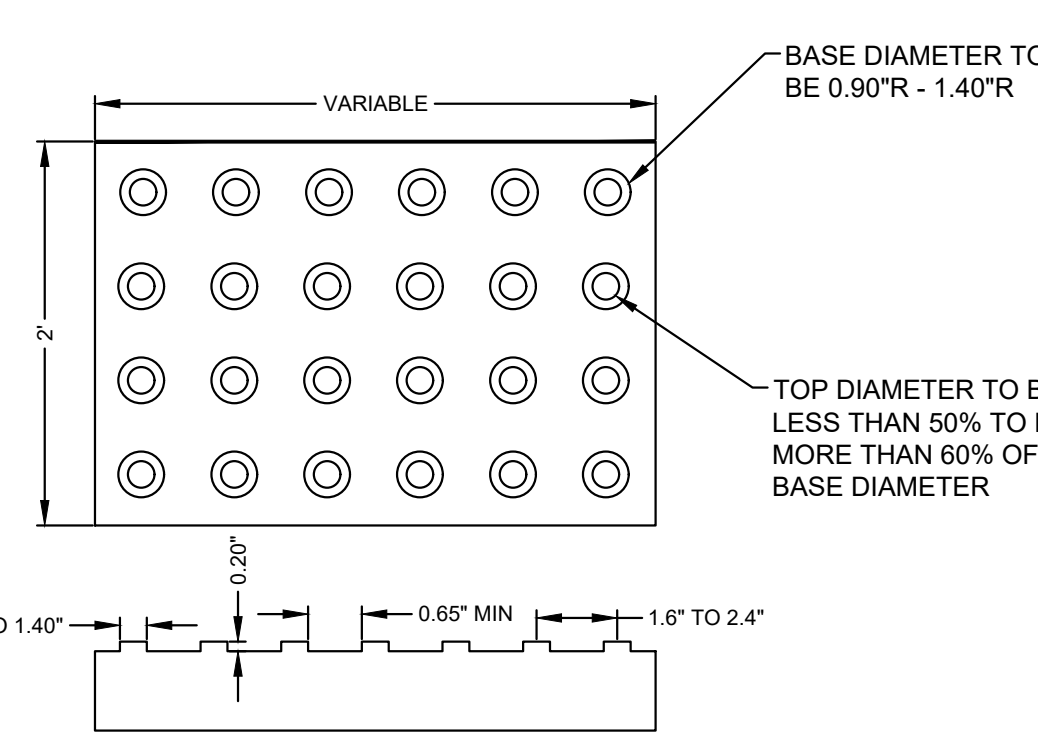
Professional Seal redacted on electronic copy per City of Wilmington Policy

C-6.01
PEI JOB#: 20195.PE

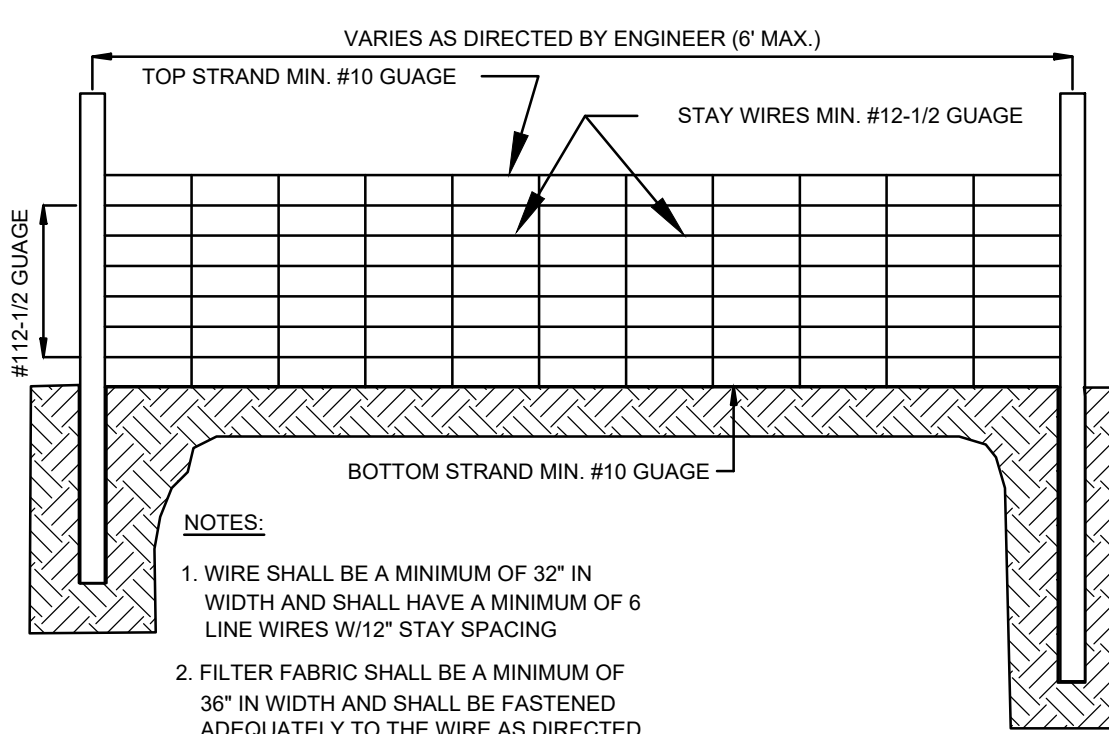
ISSUED FOR: PRELIMINARY PERMITTING MID-CONSTRUCTION CONSTRUCTION



TEMPORARY CONSTRUCTION ENTRANCE
NOT TO SCALE

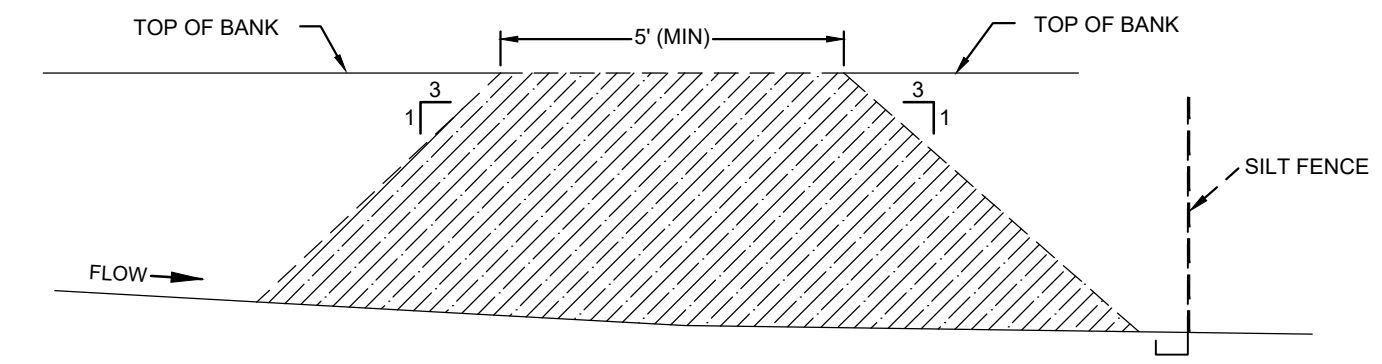
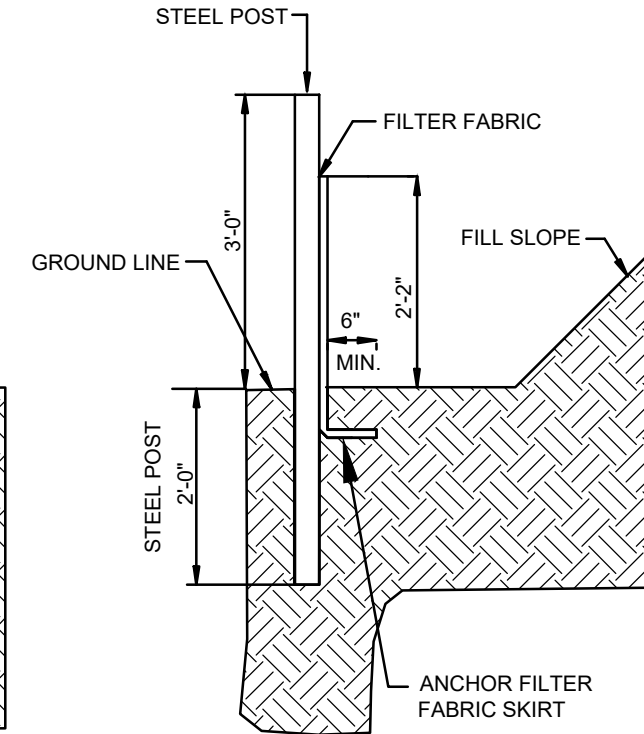


DETECTABLE WARNING MAT
NOT TO SCALE



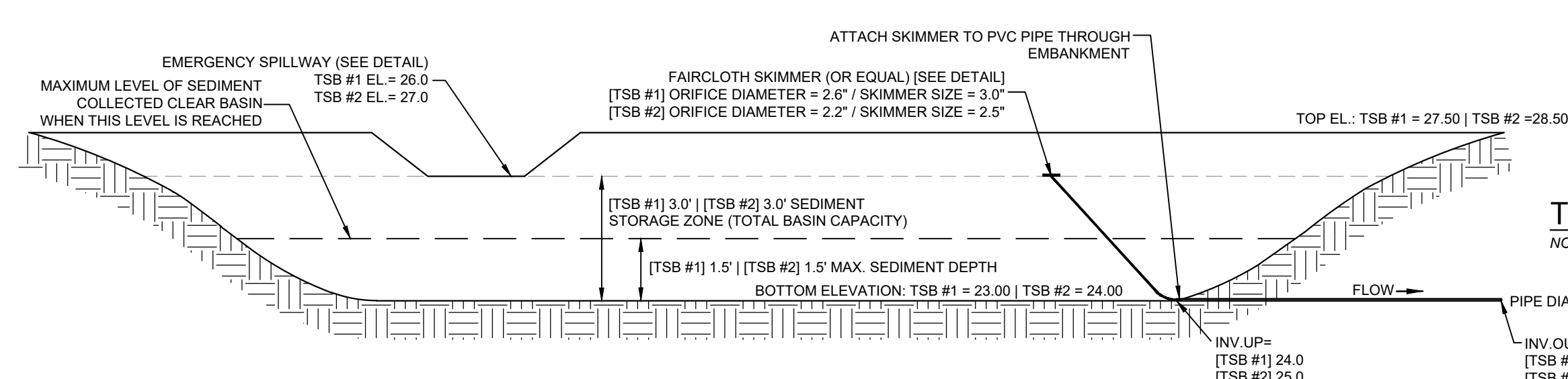
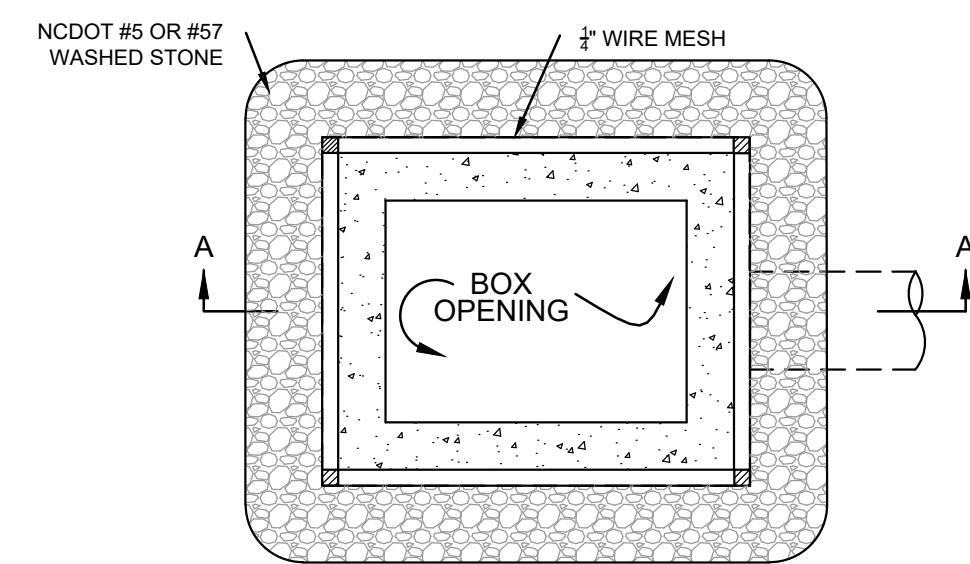
- NOTES:
1. WIRE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES W/12" STAY SPACING
 2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER
 3. STEEL POST SHALL BE 5' 0" IN HEIGHT AND BE OF SELF FASTENER ANGLE STEEL TYPE

GUIDELINES FOR TEMPORARY SILT FENCE DETAIL
NOT TO SCALE

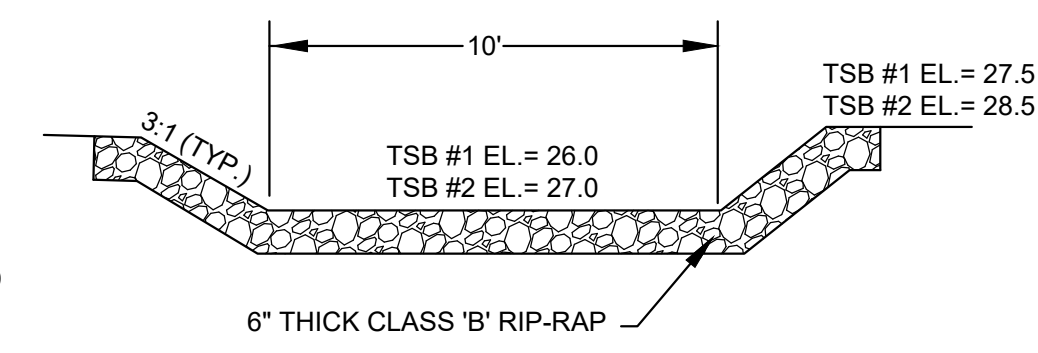


- NOTES:
1. CONTRACTOR TO INSTALL DITCH PLUGS AS SHOWN ON PLANS IN ALL DITCHES TO BE FILLED.
 2. DITCH PLUGS ARE TO BE INSTALLED AND DITCHES TO BE FILLED PRIOR TO ANY RAIN EVENT

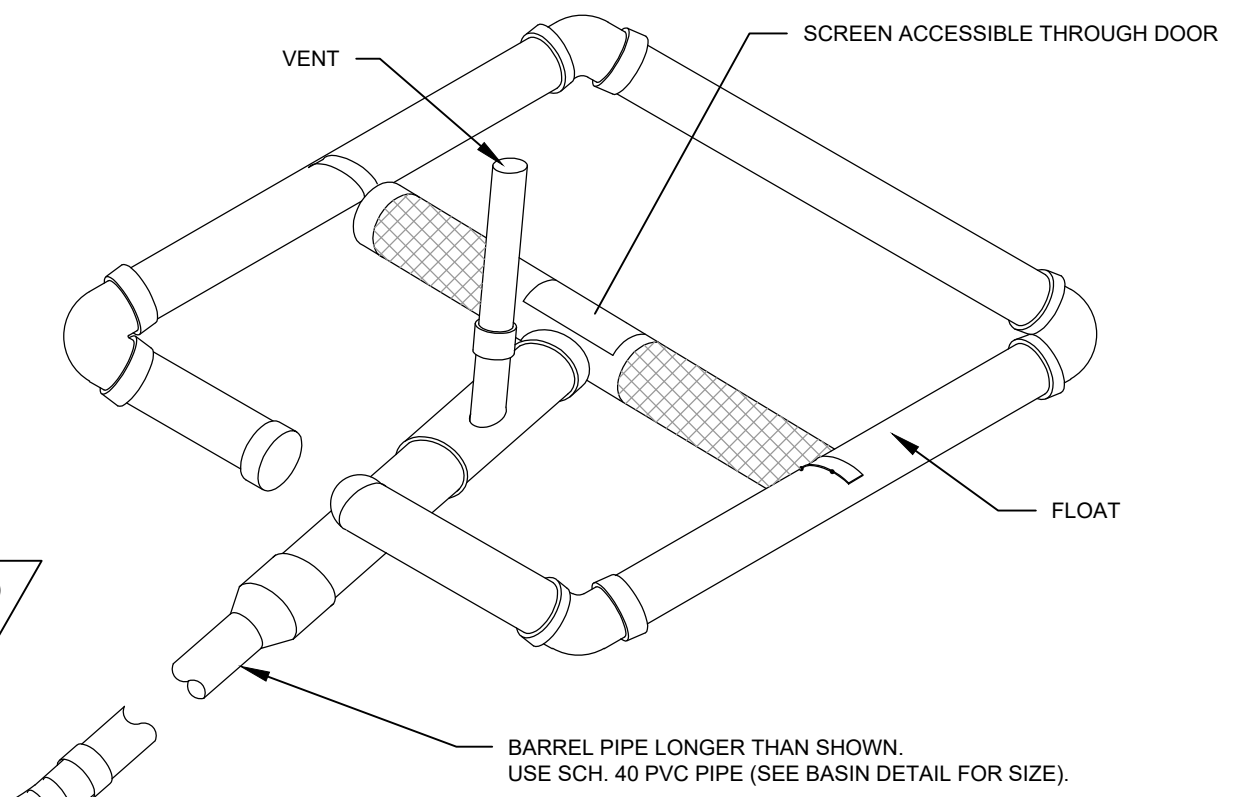
DITCH PLUG
NOT TO SCALE



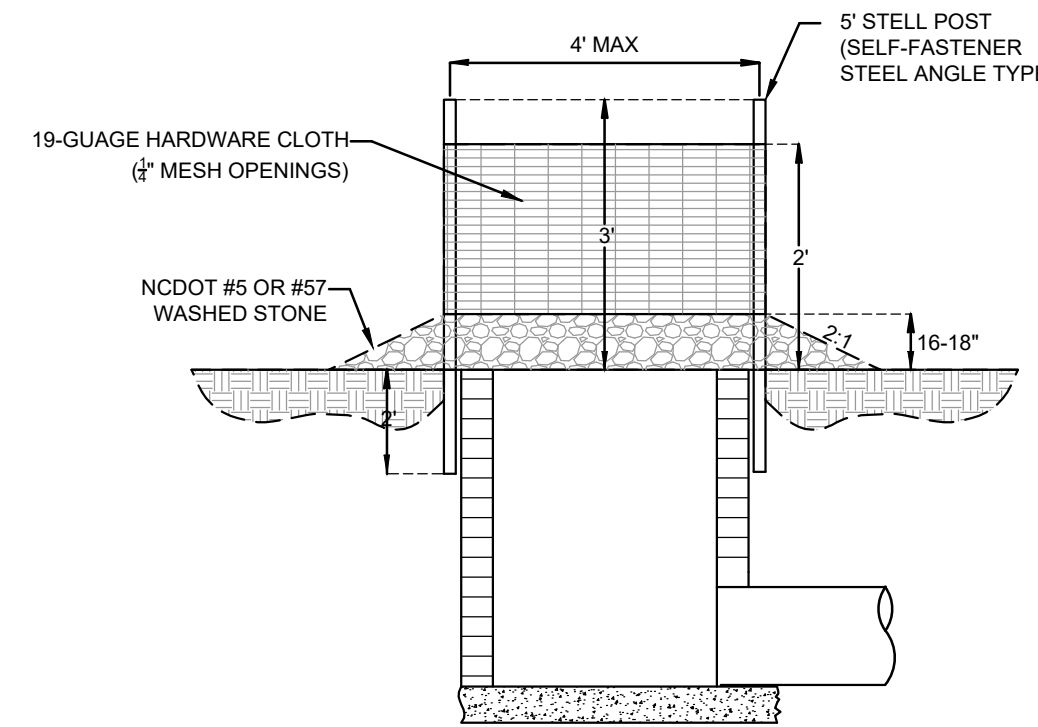
TEMP. SKIMMER BASIN #1 & #2 DETAIL
NOT TO SCALE



TEMP SKIMMER BASIN #1 & #2 SPILLWAY DETAIL
NOT TO SCALE



FAIRCLOTH SKIMMER DETAIL
NOT TO SCALE



SECTION A - A

NOTE:
FOR CURB INLETS AND DROP INLETS
INLET PROTECTION

BAFFLES

CONSTRUCTION SPECIFICATION

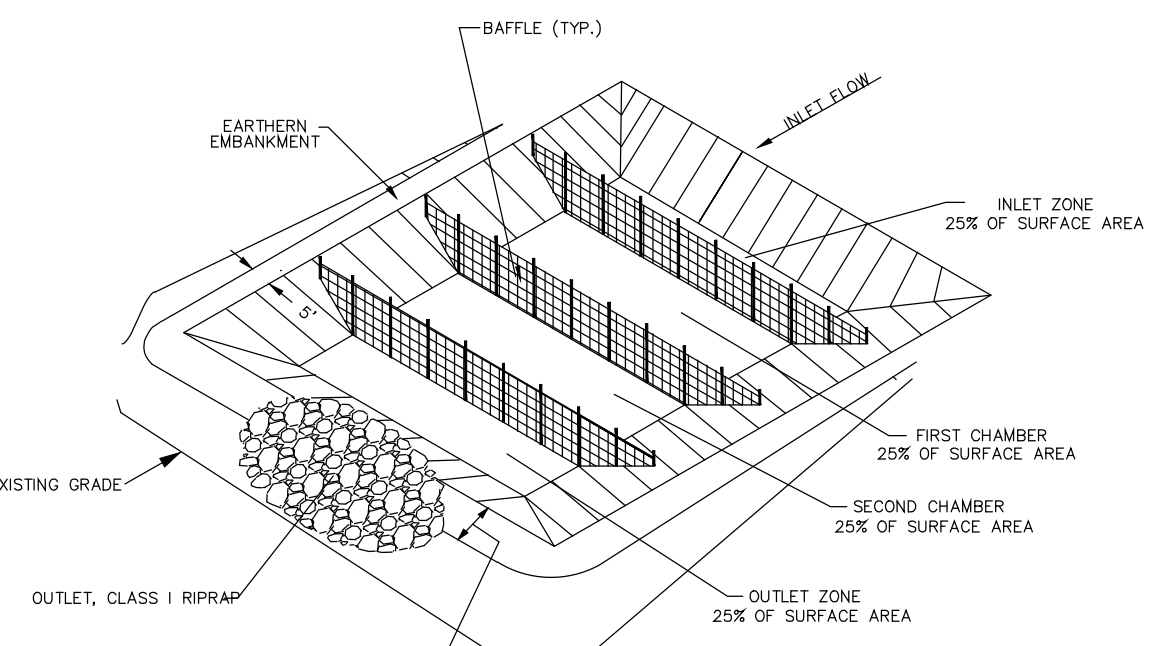
1. Grade the basin so that the bottom is level front to back and side to side.
2. Install posts or saw horses across the width of the sediment trap (Practice 6.62, *Sediment Fence*).
3. Steel posts should be driven to a depth of 24 inches, spaced a maximum of 4 feet apart, and installed up the side of the basin as well. The top of the fabric should be 6 inches higher than the invert of the spillway. Tops of baffles should be 2 inches lower than the top of the berms.
4. Install at least three rows of baffles between the inlet and outlet discharge point. Basins less than 20 feet in length may use 2 baffles.
5. When using posts, add a support wire or rope across the top of the measure to prevent sagging.
6. Wrap pile, backed by coir material, over a sawhorse or the top wire. Hammer rebar into the sawhorse legs for anchoring. The fabric should have five to ten percent openings in the weave. Attach fabric to a rope and a support structure with zip ties, wire or staples.
7. The bottom and sides of the fabric should be anchored in a trench or pinned with 8-inch erosion control matting staples.
8. Do not splice the fabric, but use a continuous piece across the basin.

MAINTENANCE

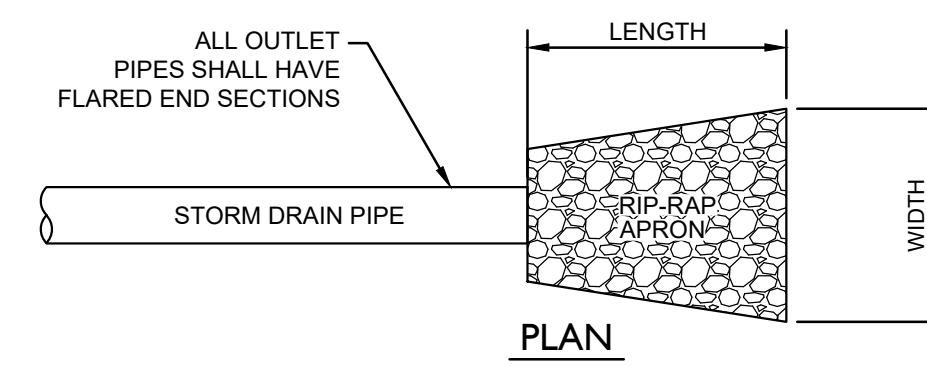
Inspect baffles at least once a week and after each rainfall. Make any required repairs immediately. Be sure to maintain access to the baffles. Should the fabric of a baffle collapse, tear, decompose, or become ineffective, replace it promptly.

Remove sediment deposits when it reaches half full to provide adequate storage volume for the next rain and to reduce pressure on the baffles. Take care to avoid damaging the baffles during cleanout. Sediment depth should never exceed half the designed storage depth.

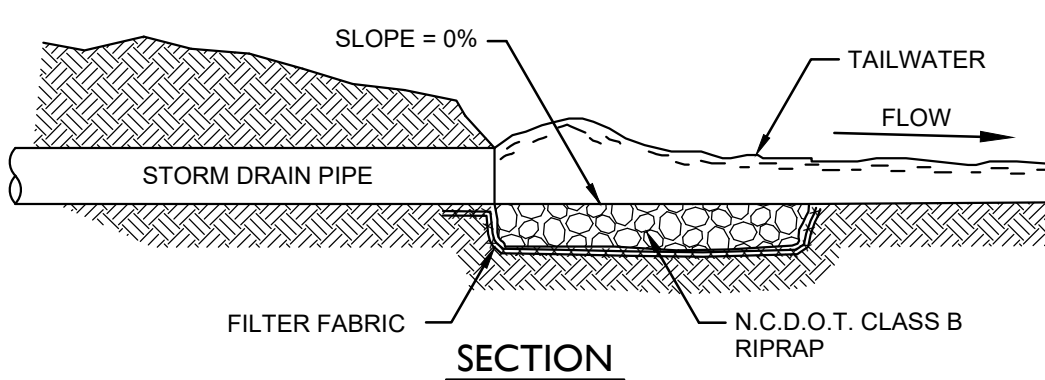
After the contributing drainage area has been properly stabilized, remove all baffle materials and unstable sediment deposits, bring the area to grade, and stabilize it.



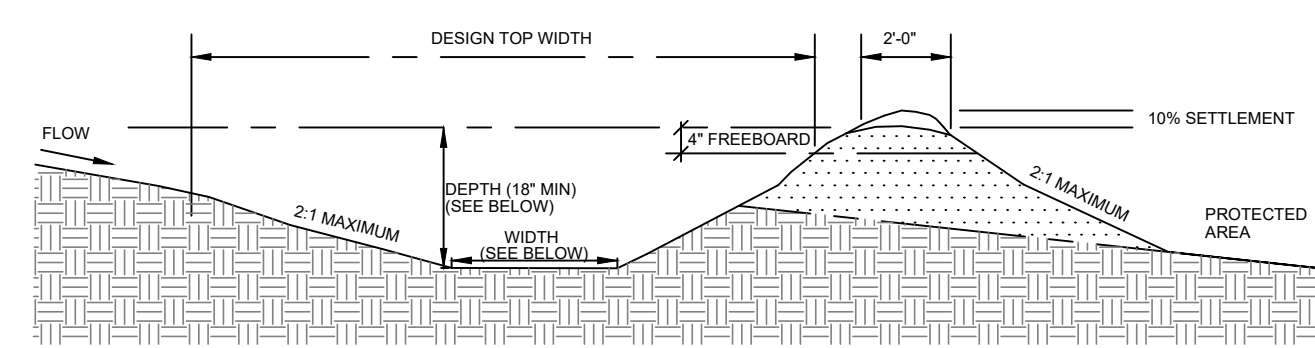
BAFFLE DETAIL
NOT TO SCALE



PLAN



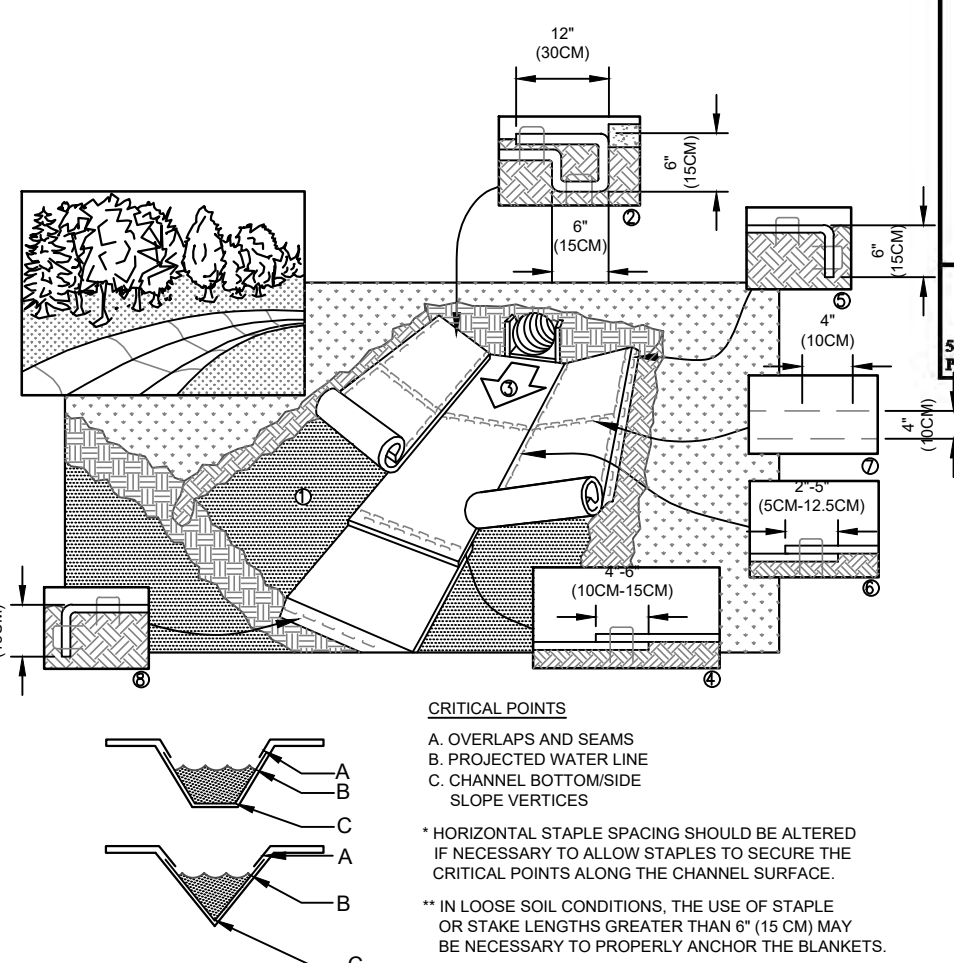
SECTION



TEMPORARY DIVERSION DITCH
NOT TO SCALE

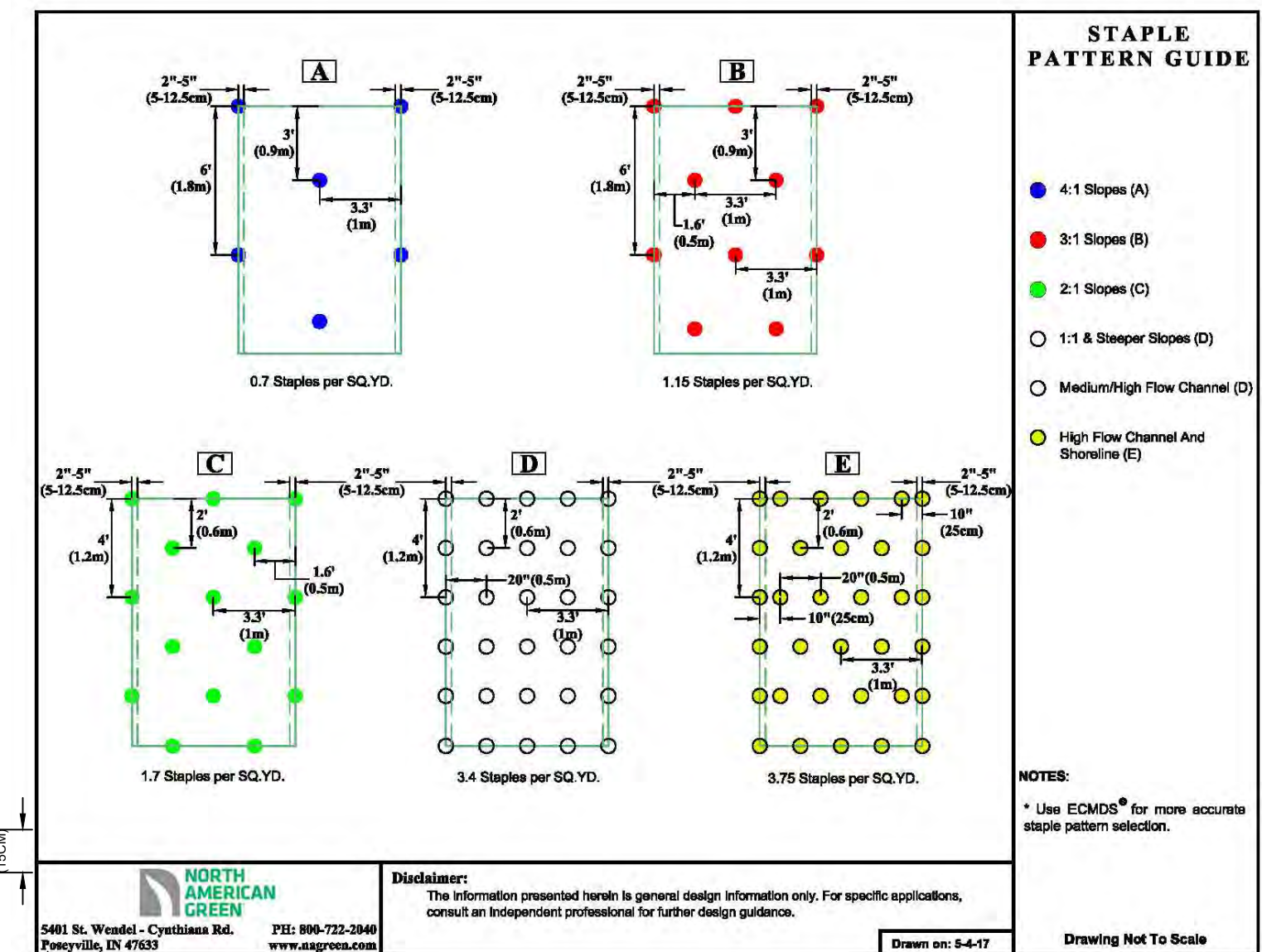
TDD #	LENGTH (FT)	INV UP	INV DN	SLOPE (FT/FT)	WIDTH (FT)	DEPTH (FT)
1	835	42.00	30.00	0.0144	4.0	1.5
2	260	25.00	24.00	0.0038	4.0	2.0

PROVIDE TEMPORARY LINING (NA GREEN S75 OR APPROVED EQUAL FOR TDD #1 & #2)



- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
 2. DO NOT SCALE DRAWINGS.

ROLLED EROSION CONTROL LINING
NOT TO SCALE



STAPLE PATTERN GUIDE

- 4:1 Slopes (A)
- 3:1 Slopes (B)
- 2:1 Slopes (C)
- 1:1 & Steeper Slopes (D)
- High Flow Channel And Spillways (E)

* Use ECMDS® for more accurate staple pattern selection.

RIP-RAP SCHEDULE					
APRON #	PIPE DIA. (IN.)	LENGTH (FT.)	UP WIDTH (FT.)	DWN WIDTH (FT.)	THICKNESS (IN.)
FES-100	18	7	4.5	4.5	18
FES-200	36	13	9	9	18
FES-500	30	11	7.5	7.5	18
FES-600	42	15	10.5	10.5	18
POND#1	36	13	9	9	18

RIP-RAP APRON
NTS

REVISIONS:

CLIENT INFORMATION:

PARAMOUNT ENGINEERING

122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

EC & STORM DETAILS

WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

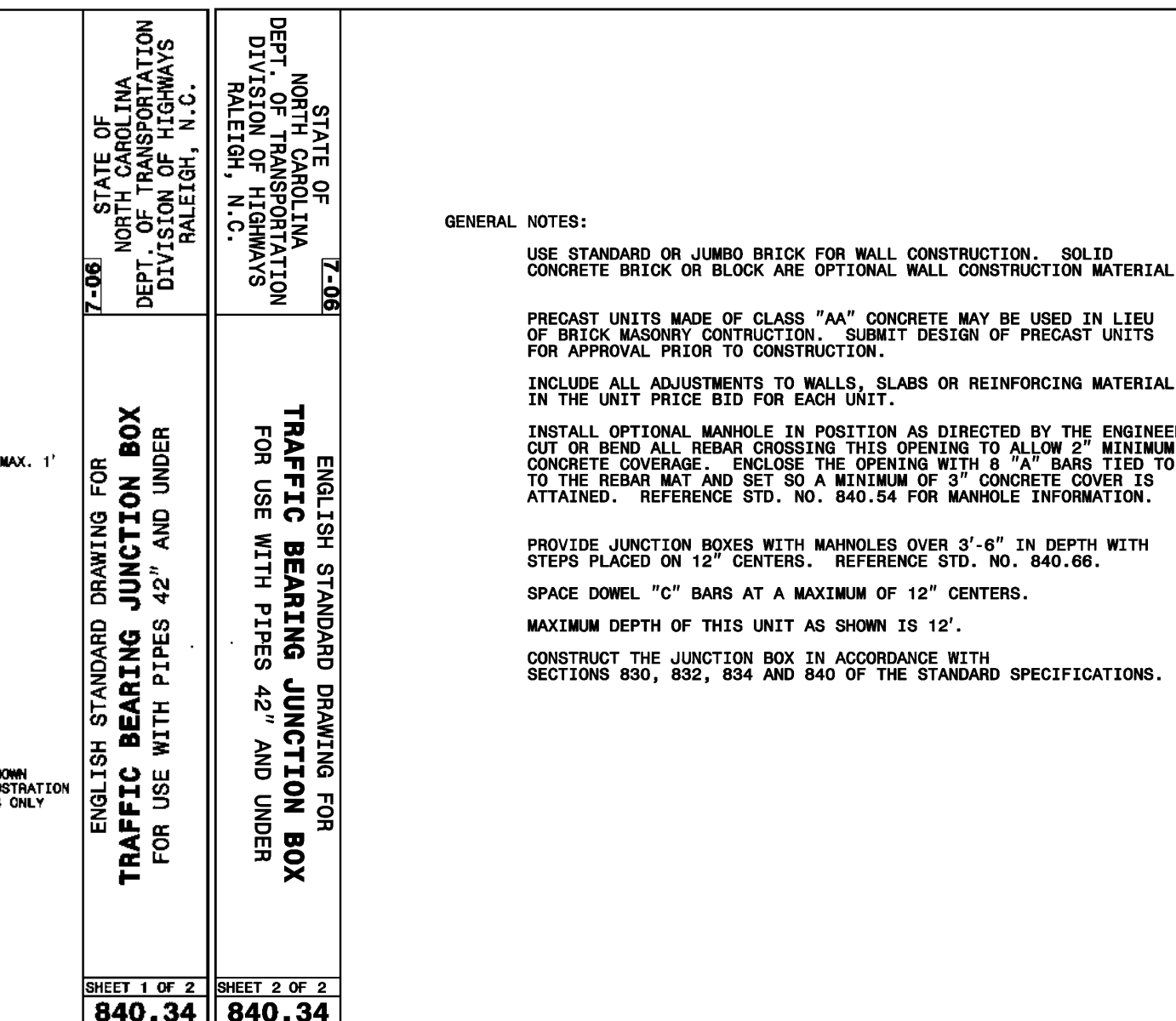
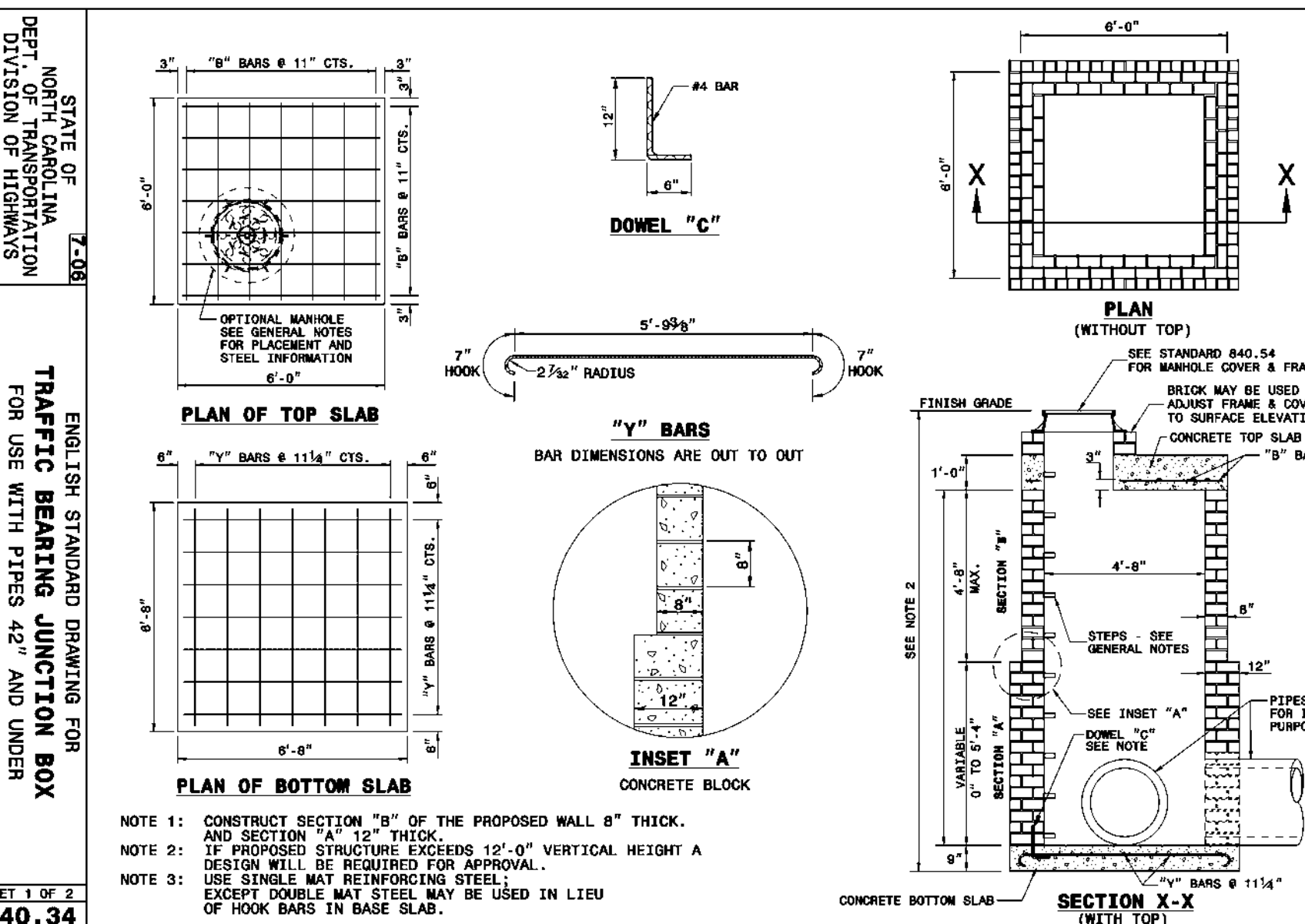
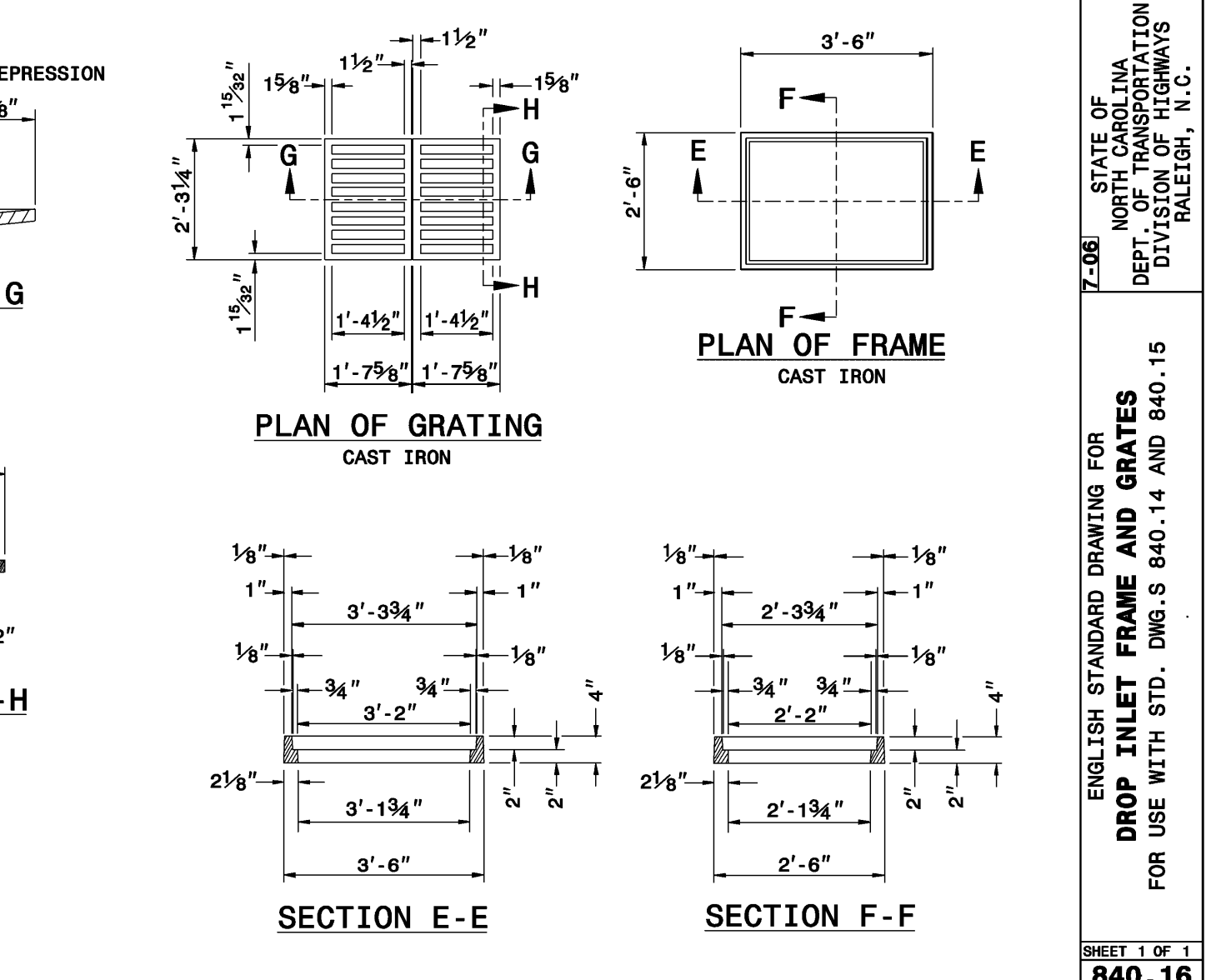
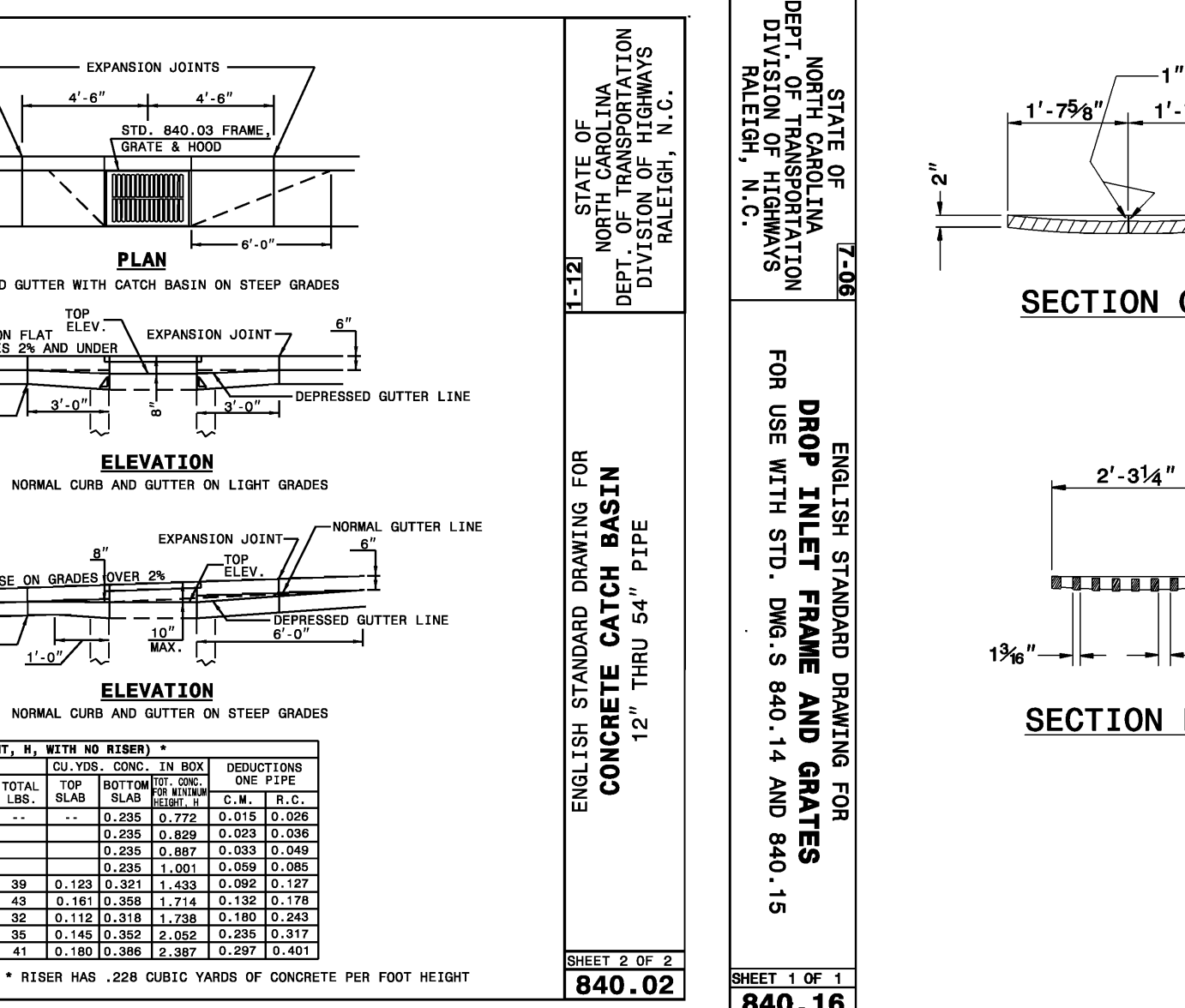
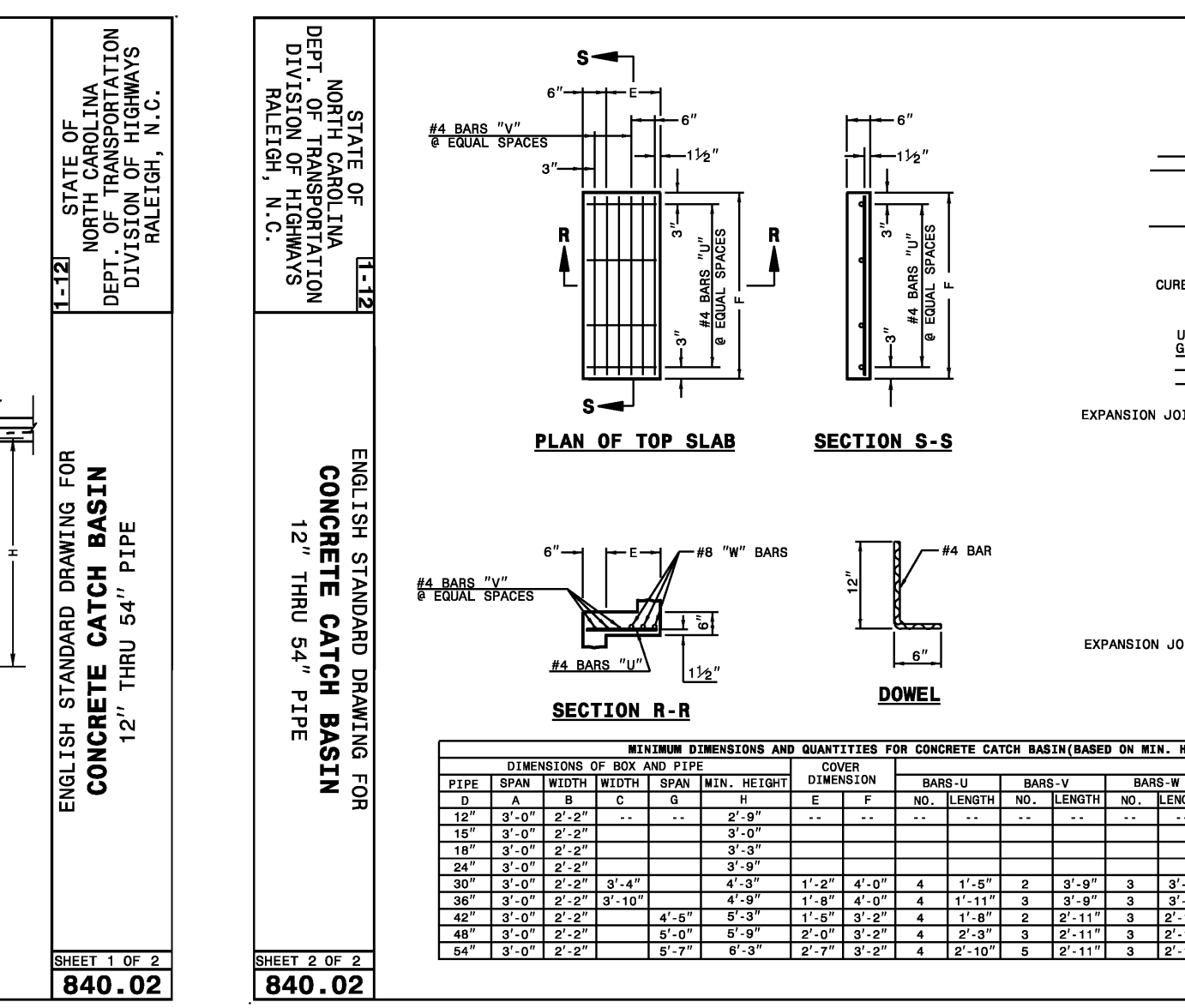
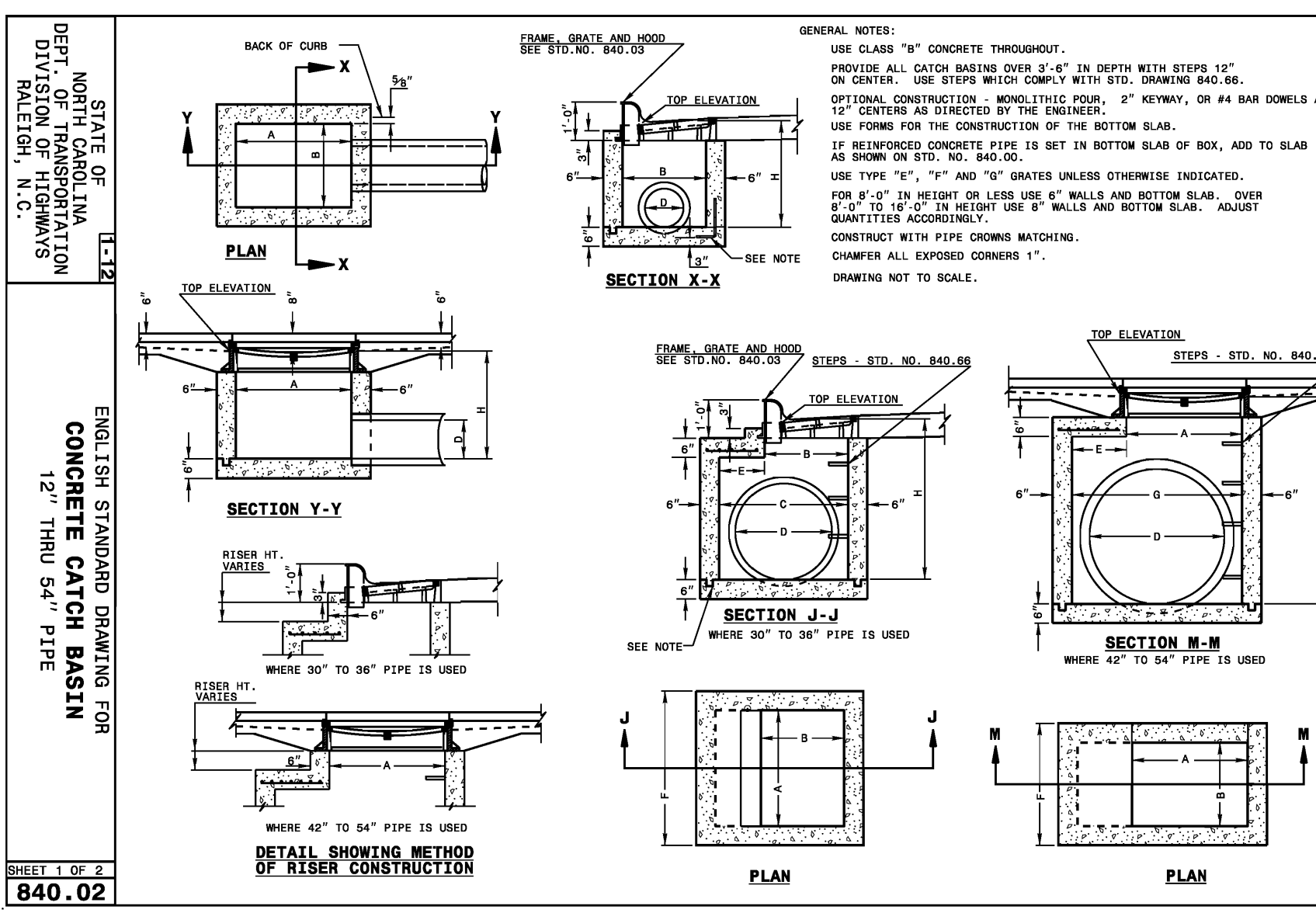
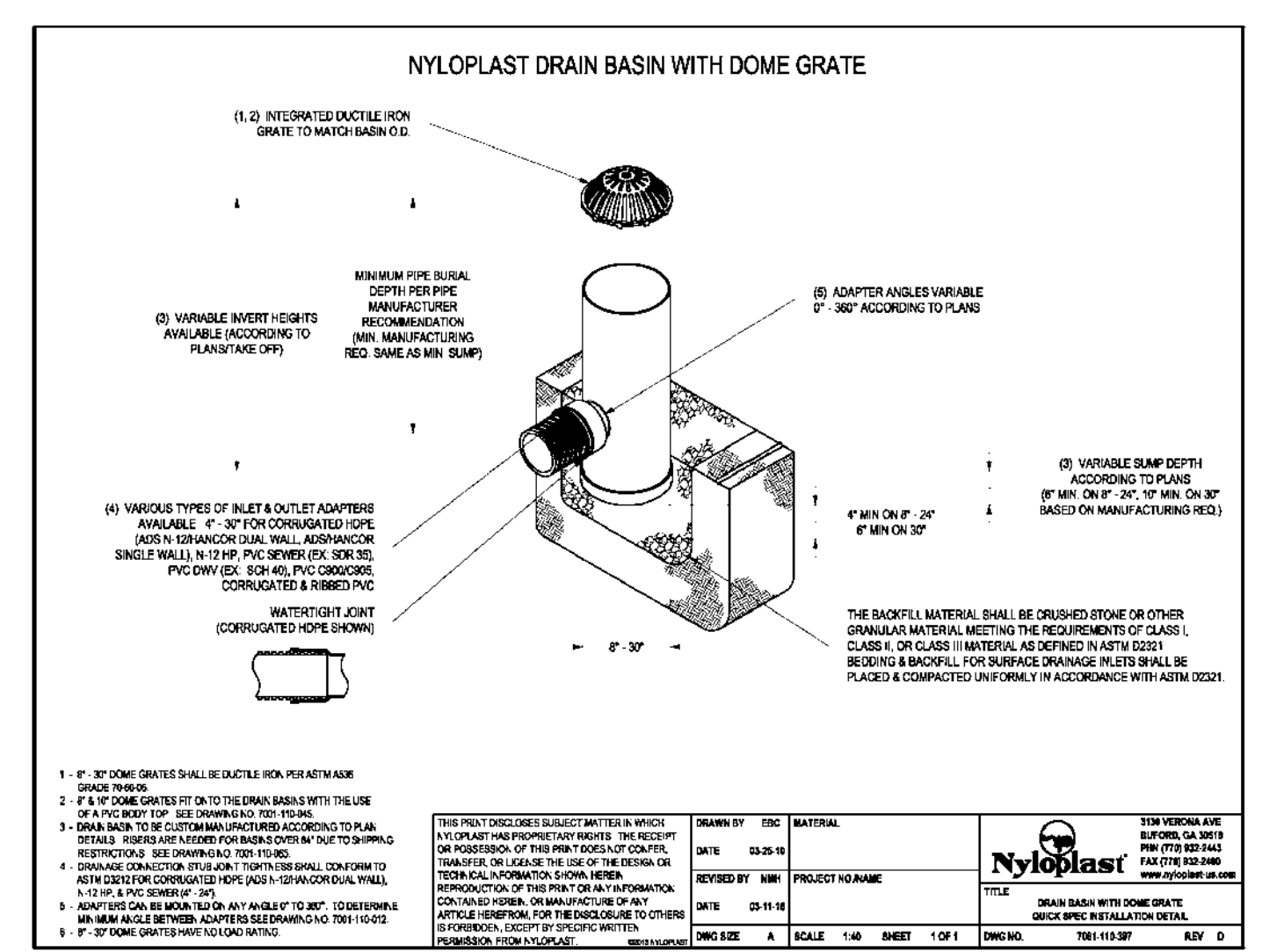
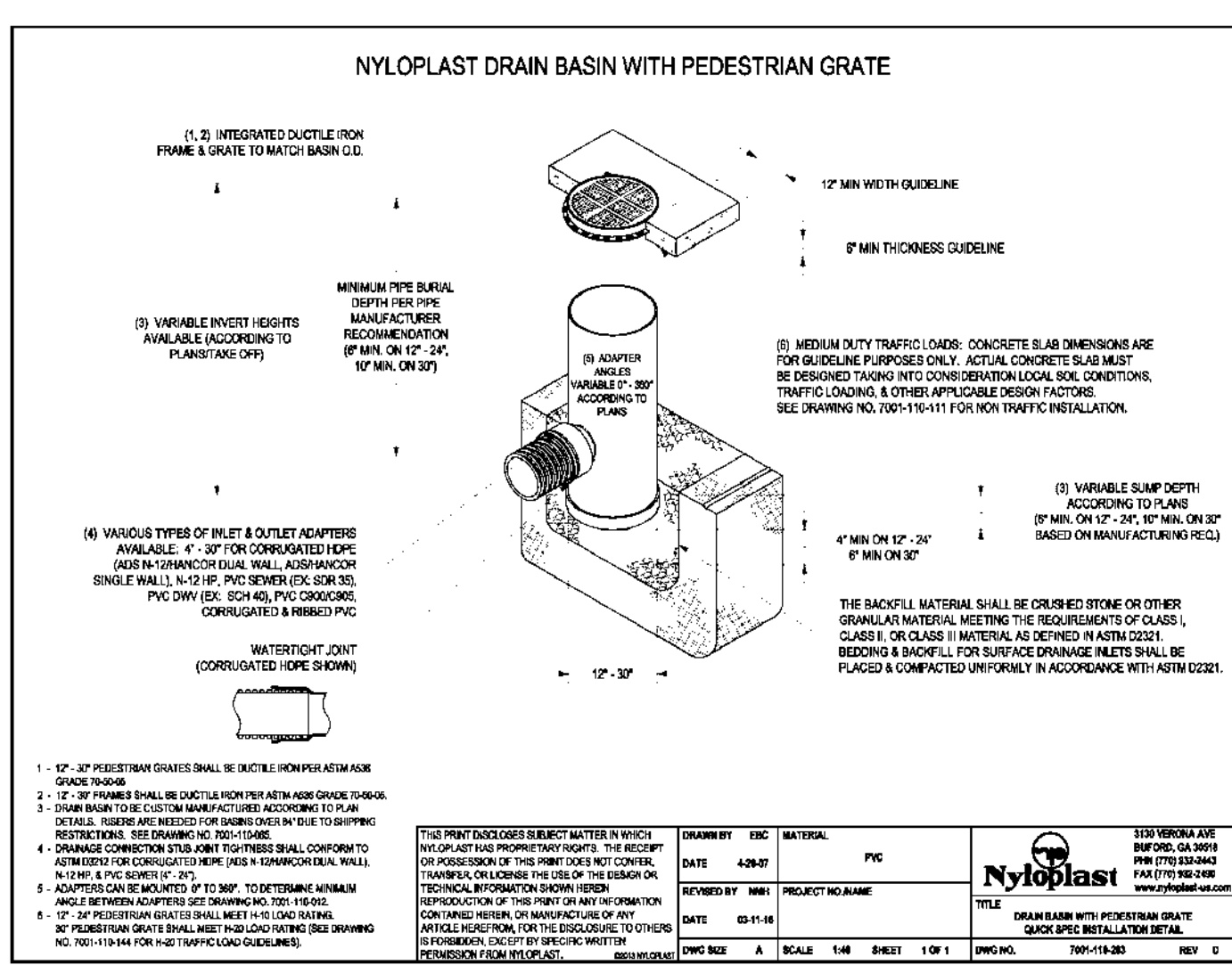
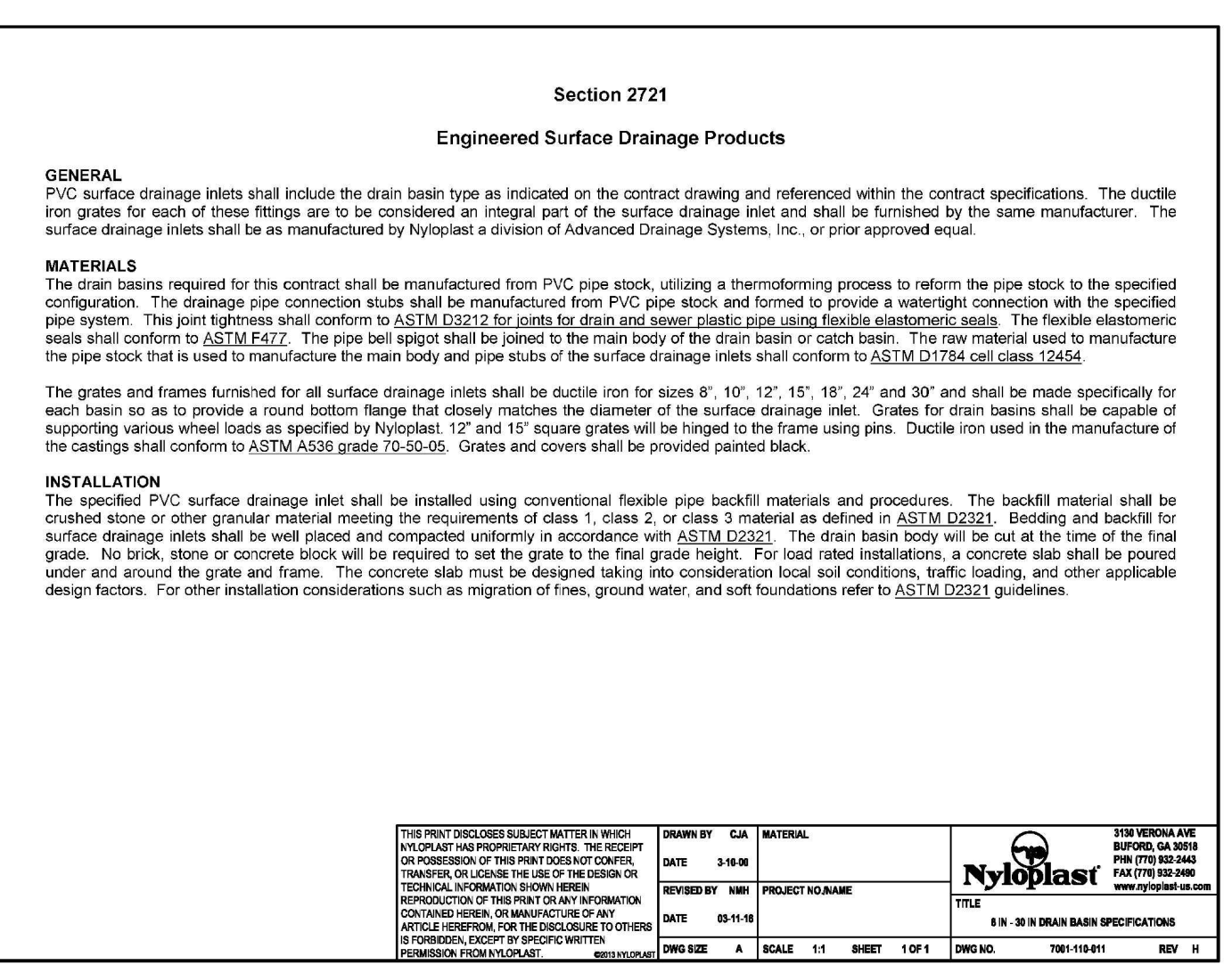
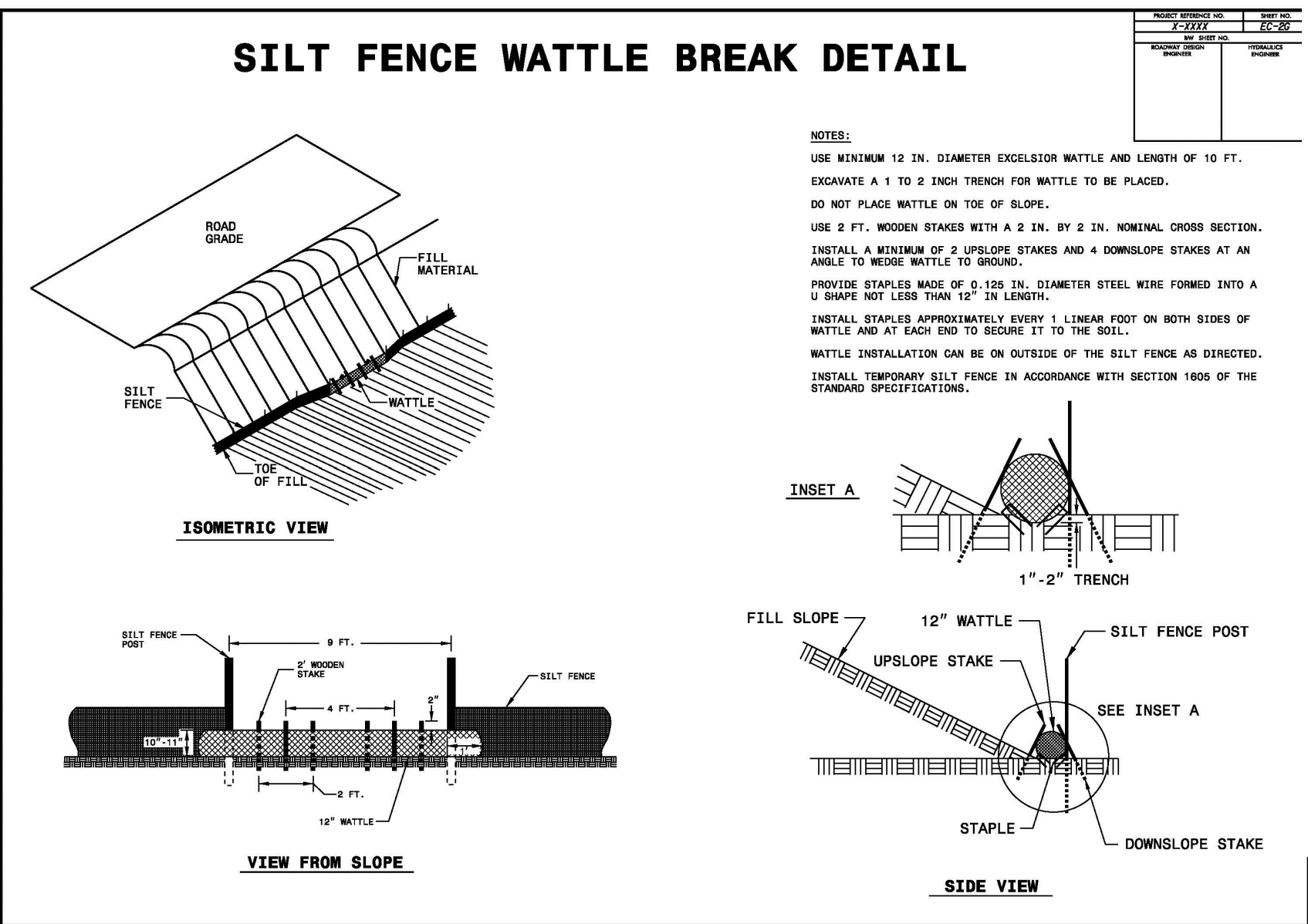
PROJECT STATUS:
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONSTRUCTION

DRAWING INFORMATION:
DATE: 03/28/21
DESIGNED BY: ASH/DJF
DRAWN BY: DJF
CHECKED BY: DJF

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-6.02

PEI JOB#: 20195.PE



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC BEARING GRADED DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES

BILL OF MATERIALS

BAR	SIZE	LENGTH	QUANTITY	WEIGHT	BRICK ALT.	QUANTITY	WEIGHT
1	#4	16	16	56.0	1	16	56.0
2	#4	16	16	56.0	1	16	56.0
3	#4	16	16	56.0	1	16	56.0
4	#4	16	16	56.0	1	16	56.0
5	#4	16	16	56.0	1	16	56.0
6	#4	16	16	56.0	1	16	56.0
7	#4	16	16	56.0	1	16	56.0
8	#4	16	16	56.0	1	16	56.0
9	#4	16	16	56.0	1	16	56.0
10	#4	16	16	56.0	1	16	56.0
11	#4	16	16	56.0	1	16	56.0
12	#4	16	16	56.0	1	16	56.0
13	#4	16	16	56.0	1	16	56.0
14	#4	16	16	56.0	1	16	56.0
15	#4	16	16	56.0	1	16	56.0
16	#4	16	16	56.0	1	16	56.0
17	#4	16	16	56.0	1	16	56.0
18	#4	16	16	56.0	1	16	56.0
19	#4	16	16	56.0	1	16	56.0
20	#4	16	16	56.0	1	16	56.0
21	#4	16	16	56.0	1	16	56.0
22	#4	16	16	56.0	1	16	56.0
23	#4	16	16	56.0	1	16	56.0
24	#4	16	16	56.0	1	16	56.0
25	#4	16	16	56.0	1	16	56.0
26	#4	16	16	56.0	1	16	56.0
27	#4	16	16	56.0	1	16	56.0
28	#4	16	16	56.0	1	16	56.0
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71	#4	16	16	56.0	1	16	56.0
72	#4	16	16	56.0	1	16	56.0
73	#4	16	16	56.0	1	16	56.0
74	#4	16	16	56.0	1	16	56.0
75	#4	16	16	56.0	1	16	56.0
76	#4	16	16	56.0	1	16	56.0
77	#4	16	16	56.0	1	16	56.0
78	#4	16	16	56.0	1	16	56.0
79	#4	16	16	56.0	1	16	56.0
80	#4	16	16	56.0	1	16	56.0
81	#4	16	16	56.0	1	16	56.0
82	#4	16	16	56.0	1	16	56.0
83	#4	16	16	56.0	1	16	56.0
84	#4	16	16	56.0	1	16	56.0
85	#4	16	16	56.0	1	16	56.0
86	#4	16	16	56.0	1	16	56.0
87	#4	16	16	56.0	1	16	56.0
88	#4	16	16	56.0	1	16	56.0
89	#4	16	16	56.0	1	16	56.0
90	#4	16	16	56.0	1	16	56.0
91	#4	16	16	56.0	1	16	56.0
92	#4	16	16	56.0	1	16	56.0
93	#4	16	16	56.0	1	16	56.0
94	#4	16	16	56.0	1	16	56.0
95	#4	16	16	56.0	1	16	56.0
96	#4	16	16	56.0	1	16	56.0
97	#4	16	16	56.0	1	16	56.0
98	#4	16	16	56.0	1	16	56.0
99	#4	16	16	56.0	1	16	56.0
100	#4	16	16	56.0	1	16	56.0

GENERAL NOTES:
 - USE CLASS "AA" CONCRETE FOR CAST IN PLACE CONCRETE BOX.
 - USE CLASS "W" CONCRETE IN THE WALL CAVITY FOR REINFORCED BRICK CONSTRUCTION AND CLASS "AA" FOR THE FOOTING BASE.
 - CHAMFER ALL EXPOSED CONCRETE CORNERS 1".
 - USE FORMS TO CONSTRUCT THE BOTTOM SLAB.
 - IF PIPES ARE SET IN THE BASE FOLLOW CONSTRUCTION PROCEDURES SHOWN BY THE CONTRACTOR.
 - PRECAST UNITS MADE OF CLASS "AA" CONCRETE MAY BE USED IN LIEU OF BOTTOM SLAB CONSTRUCTION.
 - BRICK & CONCRETE CONSTRUCTION PROCEDURES SHALL BE AS SHOWN IN "CONCRETE BRICK BOX" DRAWING.
 - REFERENCE STD. DWG. 840.25 FOR FRAME ANCHORAGE.
 - CONCRETE BRICK, JUMBO BRICK AND 4" SOLID CONCRETE BLOCK WILL BE FURNISHED.
 - CONCRETE FOR BRICK BOX REFER TO SECTION 832 OF THE STANDARD SPECIFICATIONS.
 - PROVIDE GRADED RISE OVER 3'-6" DEPTH WITH STEPS SPACED 2'-0" ON CENTERS AS DIRECTED BY STD. DWS. 840.66.
 - FRAME AND GRATES ARE SEPARATE CONTRACT ITEMS.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC BEARING GRADED DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES

SECTION 'A-A'
SECTION 'B-B'
SECTION 'C-C'
SECTION 'D-D'

Waffle Wall Plan View
 Solid Wall Plan View

Waffle Wall Isometric View
 Solid Wall Isometric View

GENERAL NOTES:
 - THE PATTERN OF THE KNOCK-OUT PANELS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)

SECTION 'A-A'
SECTION 'B-B'
SECTION 'C-C'
SECTION 'D-D'

Waffle Wall Plan View
 Solid Wall Plan View

Waffle Wall Isometric View
 Solid Wall Isometric View

GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.29, 840.31, 840.32 AND 840.41.
 - INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATION SECTION 840.
 - USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
 - USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A185 WELDED WIRE FABRIC (WFF).
 - LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15'-0".
 - PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL IN PLANS.
 - PRECAST ALL ELEMENTS TO MEET ASTM C913.
 - FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 - PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. DWS. 840.66.
 - WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
 - SEAL JOINTS WITH AN APPROVED SEALANT (SEE SECTION 840 OF NCOTD STANDARD SPECIFICATIONS).
 - LIMIT MAXIMUM STRUCTURE SIZE INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0".
 - THE OUTSIDE PIPE DIAMETER PLUS 2" IS THE MINIMUM STRUCTURE SIZE OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.
 - ROUND MANHOLE MAY BE USED IN LIEU OF SQUARE PROVIDED 2 EXTRA #5'S ARE PLACED ON EVERY SIDE NOT ADJACENT TO A WALL. SEE STD. DWS. 840.34 FOR MANHOLE INSTALLATION.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (GENERAL NOTES AND DETAILS)

OPTIONAL JOINT DETAILS

GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.04, 840.05, 840.14, 840.15, 840.31, 840.32, 840.34, 840.35, 840.39 AND 840.41.
 - INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATION SECTION 840.
 - USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
 - USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A185 WELDED WIRE FABRIC (WFF).
 - LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15'-0".
 - PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL IN PLANS.
 - PRECAST ALL ELEMENTS TO MEET ASTM C913.
 - FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 - PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. DWS. 840.66.
 - WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
 - SEAL JOINTS WITH AN APPROVED SEALANT (SEE SECTION 840 OF NCOTD STANDARD SPECIFICATIONS).
 - LIMIT MAXIMUM STRUCTURE SIZE INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0".
 - THE OUTSIDE PIPE DIAMETER PLUS 2" IS THE MINIMUM STRUCTURE SIZE OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.
 - ROUND MANHOLE MAY BE USED IN LIEU OF SQUARE PROVIDED 2 EXTRA #5'S ARE PLACED ON EVERY SIDE NOT ADJACENT TO A WALL. SEE STD. DWS. 840.34 FOR MANHOLE INSTALLATION.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE STEPS

PLAN
ELEVATION
CAST IRON
ELEVATION
CAST IRON
REINFORCING STEEL

GENERAL NOTES:
 - CONTRACTOR SHALL PROVIDE CERTIFICATION FROM A LICENSED NORTH CAROLINA STRUCTURAL ENGINEER THAT PRECAST STRUCTURES PROVIDED MEET REQUIREMENTS FOR H20 LOADING.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (GENERAL NOTES AND DETAILS)

ROOF DRAIN DETAIL WITH CLEANOUTS
 NOT TO SCALE

GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.29, 840.31, 840.32 AND 840.41.
 - INSTALL PRECAST DRAINAGE STRUCTURES AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 840.
 - DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
 - USE 4000 PSI CONCRETE.
 - PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
 - LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 15'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
 - PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
 - ALL ELEMENTS PRECAST TO MEET ASTM C913.
 - FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 - SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
 - LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
 - THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
 - USE MANHOLE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (GENERAL NOTES AND DETAILS)

GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.11, 840.12, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.29, 840.31, 840.32 AND 840.41.
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 - DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
 - USE 4000 PSI CONCRETE.
 - PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A185.
 - LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 15'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
 - PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
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 - FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
 - SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
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 - USE MANHOLE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE

PLAN VIEW OF BASE UNIT
PRECAST RISER PLAN
PLAN TOP SLAB

GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.04, 840.05, 840.14, 840.15, 840.31, 840.32, 840.34, 840.35, 840.39 AND 840.41.
 - INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATION SECTION 840.
 - USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.
 - USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A185 WELDED WIRE FABRIC (WFF).
 - LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB TO 15'-0".
 - PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
 - ORIENT STRUCTURES SO THAT CORNERS WILL NOT BE CUT OR MODIFIED UNLESS ALLOWED BY DETAIL IN PLANS.
 - PRECAST ALL ELEMENTS TO MEET ASTM C913.
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 - PROVIDE PRECAST STRUCTURES OVER 4'-0" IN DEPTH WITH STEPS 12" ON CENTERS IN ACCORDANCE WITH STD. DWS. 840.66.
 - WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR IF THE SAME MIN. AREA OF STEEL IS PROVIDED.
 - SEAL JOINTS WITH AN APPROVED SEALANT (SEE SECTION 840 OF NCOTD STANDARD SPECIFICATIONS).
 - LIMIT MAXIMUM STRUCTURE SIZE INSIDE CLEAR DIMENSIONS TO 6'-0" X 6'-0".
 - THE OUTSIDE PIPE DIAMETER PLUS 2" IS THE MINIMUM STRUCTURE SIZE OR THE OPENING REQUIRED FOR GRATE AND FRAME WHICHEVER IS GREATER.
 - ROUND MANHOLE MAY BE USED IN LIEU OF SQUARE PROVIDED 2 EXTRA #5'S ARE PLACED ON EVERY SIDE NOT ADJACENT TO A WALL. SEE STD. DWS. 840.34 FOR MANHOLE INSTALLATION.

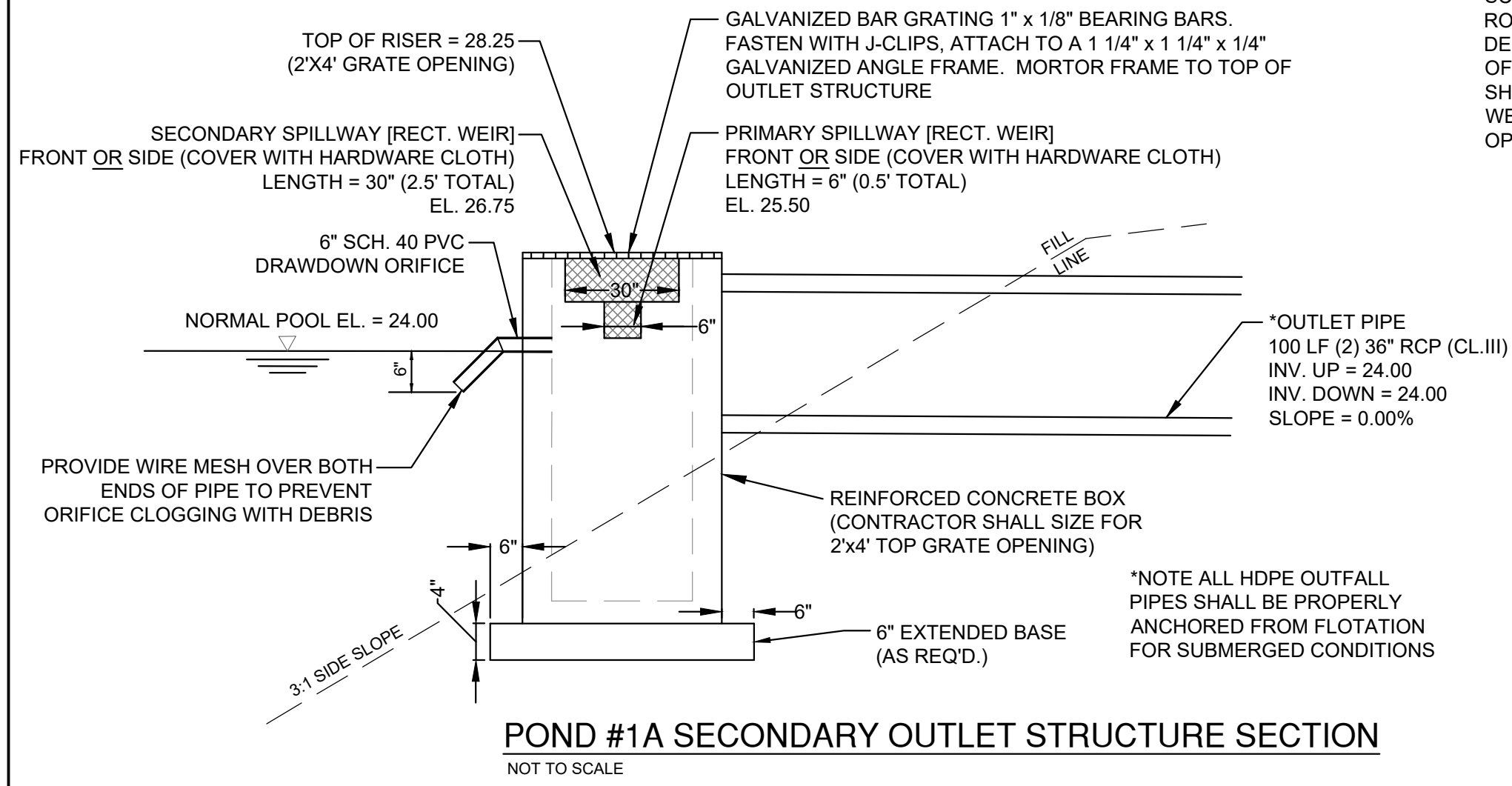
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE

TYPICAL PRECAST RISER SECTION
TYPICAL SECTION TOP SLAB
ISOMETRIC VIEW

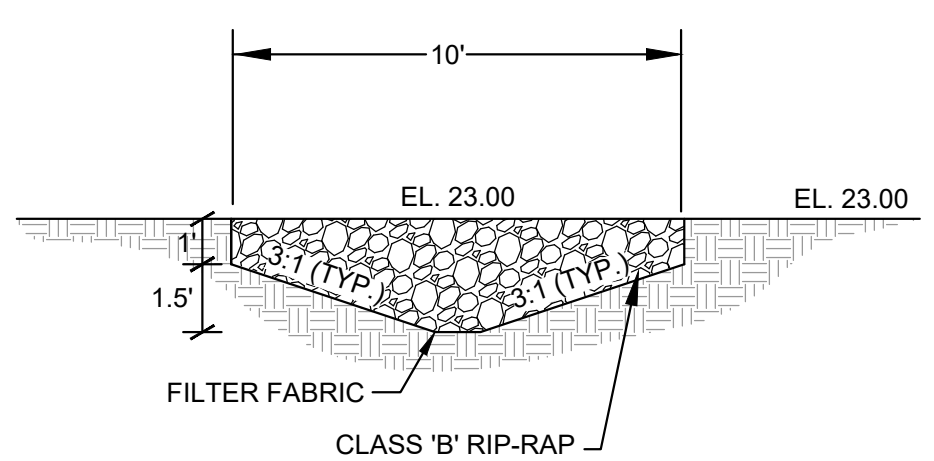
GENERAL NOTES:
 - THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.04, 840.05, 840.14, 840.15, 840.31, 840.32, 840.34, 840.35, 840.39 AND 840.41.
 - INSTALL AND PAY FOR PRECAST DRAINAGE STRUCTURES IN ACCORDANCE WITH NCOTD STANDARD SPECIFICATION SECTION 840.
 - USE 40

***NOTE:**
THE CONTRACTOR SHALL ATTACH THE SKIMMER TO THE DRAWDOWN ORIFICE. ONCE THE AREA DRAINING TO THE BASIN IS STABILIZED, THE CONTRACTOR CAN ESTABLISH THE FINAL WET POND & REMOVE THE SKIMMER.

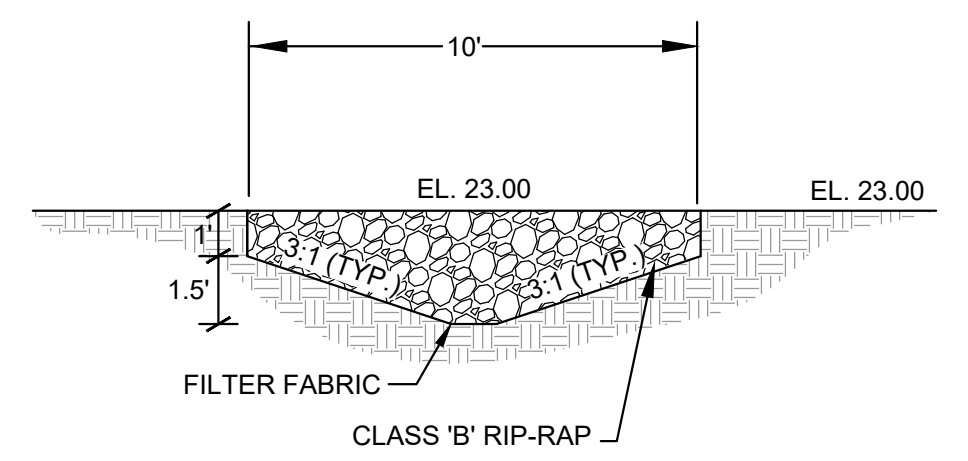


POND #1A SECONDARY OUTLET STRUCTURE SECTION
NOT TO SCALE

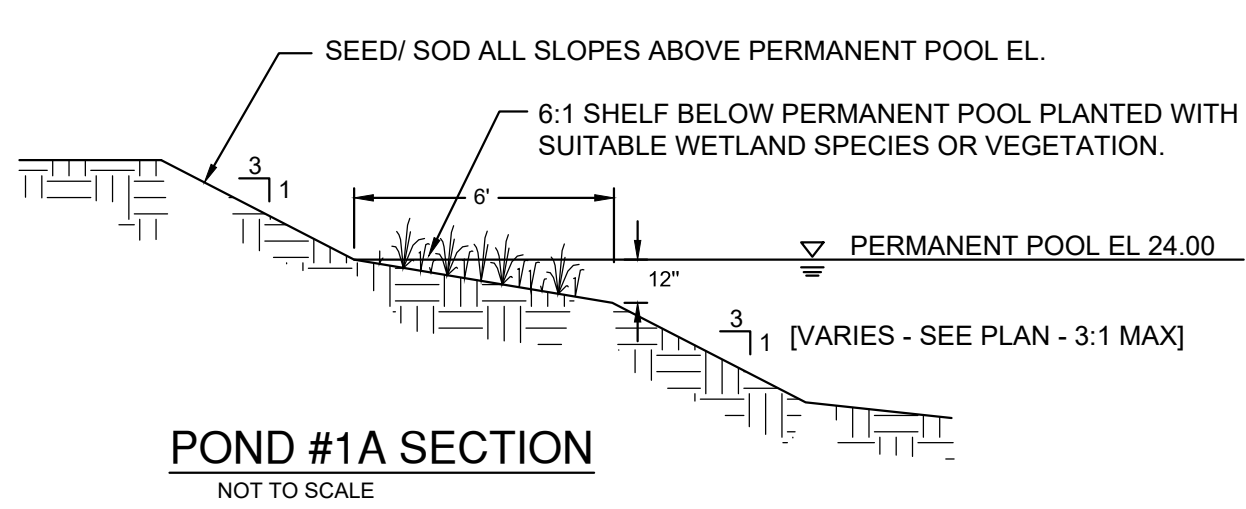
STRUCTURAL BERM FILL SATISFACTORY SOILS:
SOILS WITH ORGANICS LESS THAN 2% WITH BETWEEN 30% AND 60% PASSING THE NO. 200 SIEVE WITH A PLASTICITY INDEX AND LIQUID LIMIT OF LESS THAN 20 AND 50 PERCENT, RESPECTIVELY WITH A UNIFIED SOIL CLASSIFICATION OF SC OR CL; FREE OF ROCK OR GRAVEL LARGER THAN 2" IN ANY DIMENSION, ROOTS, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER AS INDICATED BY ENGINEER. COMPACT TO MIN. 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY PER ASTM D 698; SOIL SHOULD BE MOISTURE CONDITIONED BY THE CONTRACTOR BY DRYING OR WETTING THE MATERIAL TO WITHIN +/- 3 PERCENT OF THE MATERIALS OPTIMUM MOISTURE CONTENT.



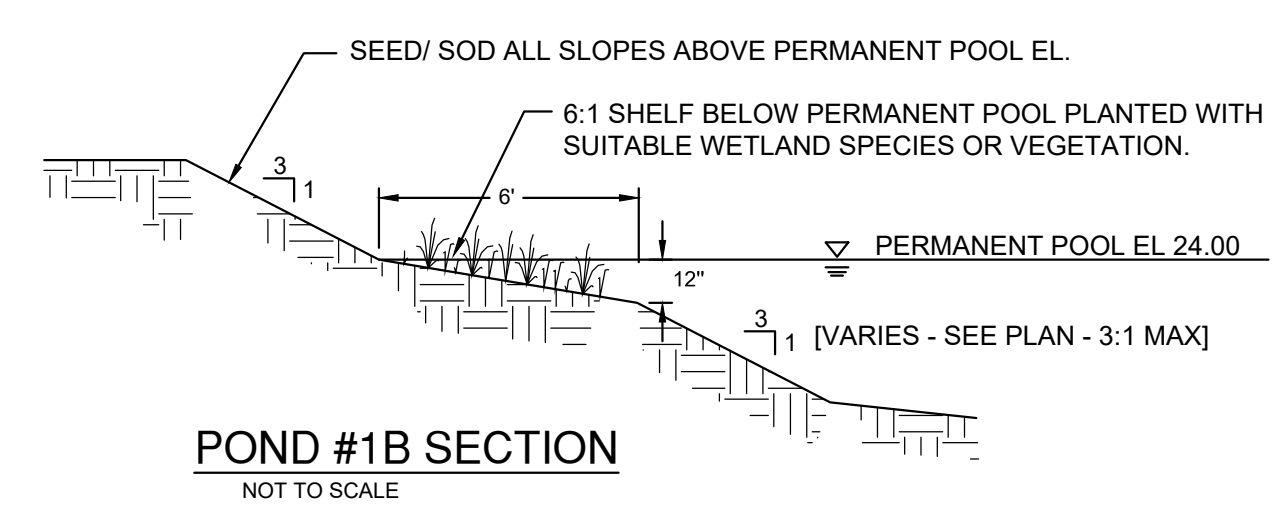
POND #1A FOREBAY SPILLWAY DETAIL
NOT TO SCALE



POND #1B FOREBAY SPILLWAY DETAIL
NOT TO SCALE



POND #1A SECTION
NOT TO SCALE



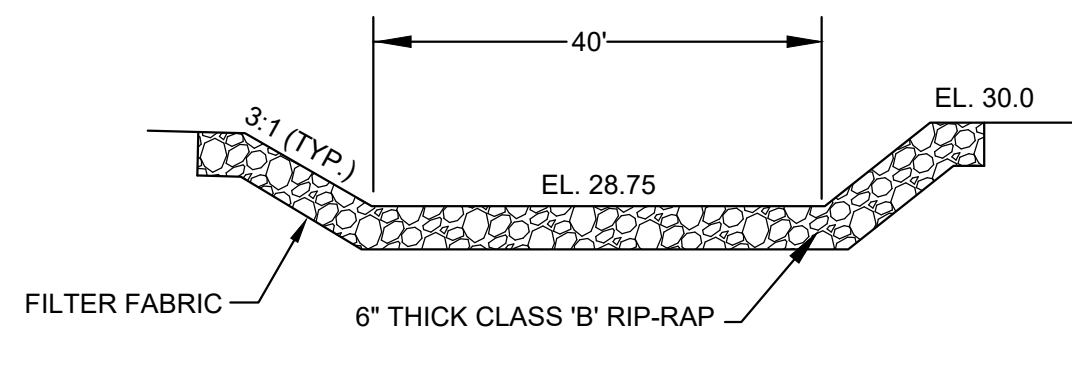
POND #1B SECTION
NOT TO SCALE

- SUITABLE PLANTS**
PICKERELWEED (PONTEDERIA CORDATA)
DUCK POTATO (SAGGITARIA LATIFOLIA AND SAGGITARIA CARDINALIS)
SWAMP ROSE (HIBISCUS MOSHEUTOS)
BLUE FLAG (IRIS VIRGINICA)
CARDINAL FLOWER (LOBELIA CARDINALIS)

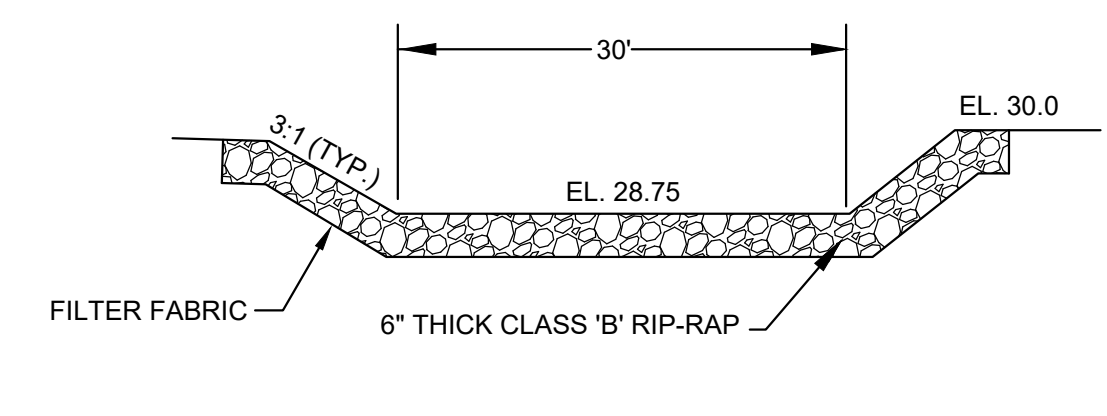
- SUITABLE PLANTS**
PICKERELWEED (PONTEDERIA CORDATA)
DUCK POTATO (SAGGITARIA LATIFOLIA AND SAGGITARIA CARDINALIS)
SWAMP ROSE (HIBISCUS MOSHEUTOS)
BLUE FLAG (IRIS VIRGINICA)
CARDINAL FLOWER (LOBELIA CARDINALIS)

WET DETENTION POND PLANTING
CONTRACTOR TO INSTALL ON THE 6:1 SLOPED SHELF, EQUAL NUMBERS OF EACH OF THE LISTED SUITABLE PLANTS. DURING INSTALLATION, GROUP SIMILAR SPECIES OF PLANTS TOGETHER. INSTALL PLANTS 24" O.C. IN A CHECKERBOARD PATTERN.

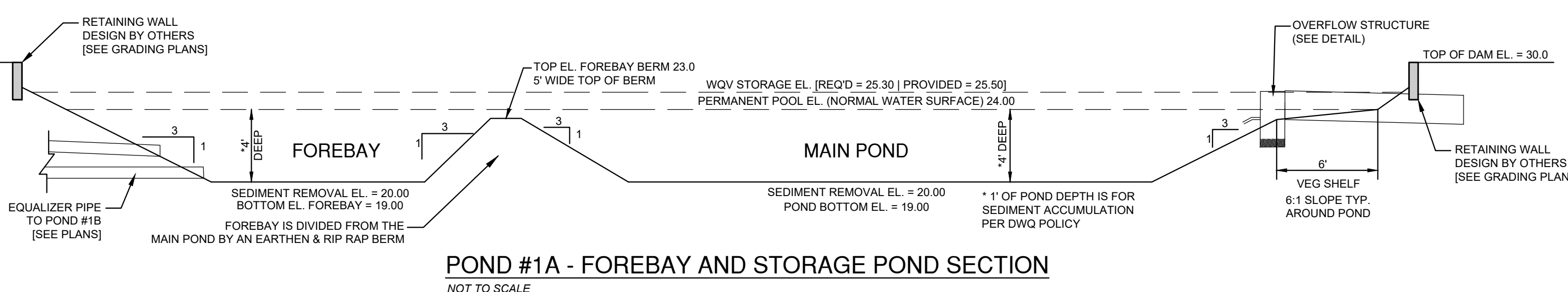
WET DETENTION POND PLANTING
CONTRACTOR TO INSTALL ON THE 6:1 SLOPED SHELF, EQUAL NUMBERS OF EACH OF THE LISTED SUITABLE PLANTS. DURING INSTALLATION, GROUP SIMILAR SPECIES OF PLANTS TOGETHER. INSTALL PLANTS 24" O.C. IN A CHECKERBOARD PATTERN.



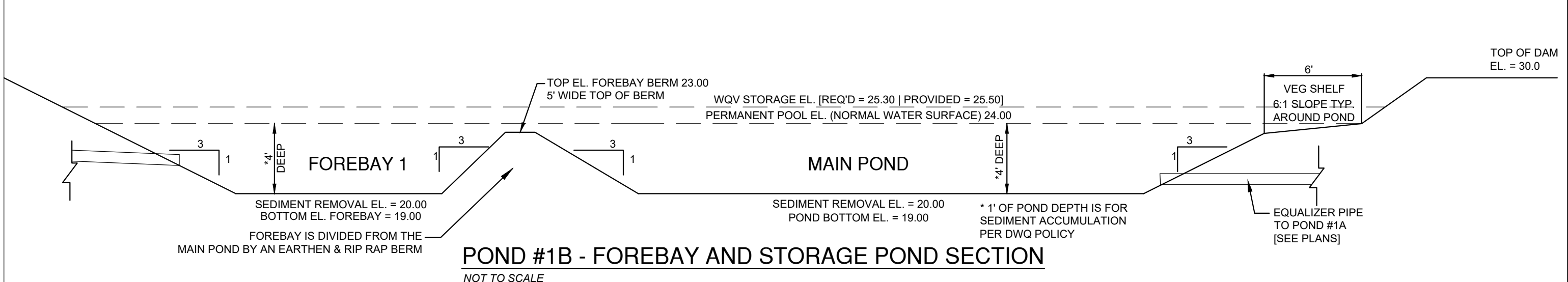
POND #1A EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



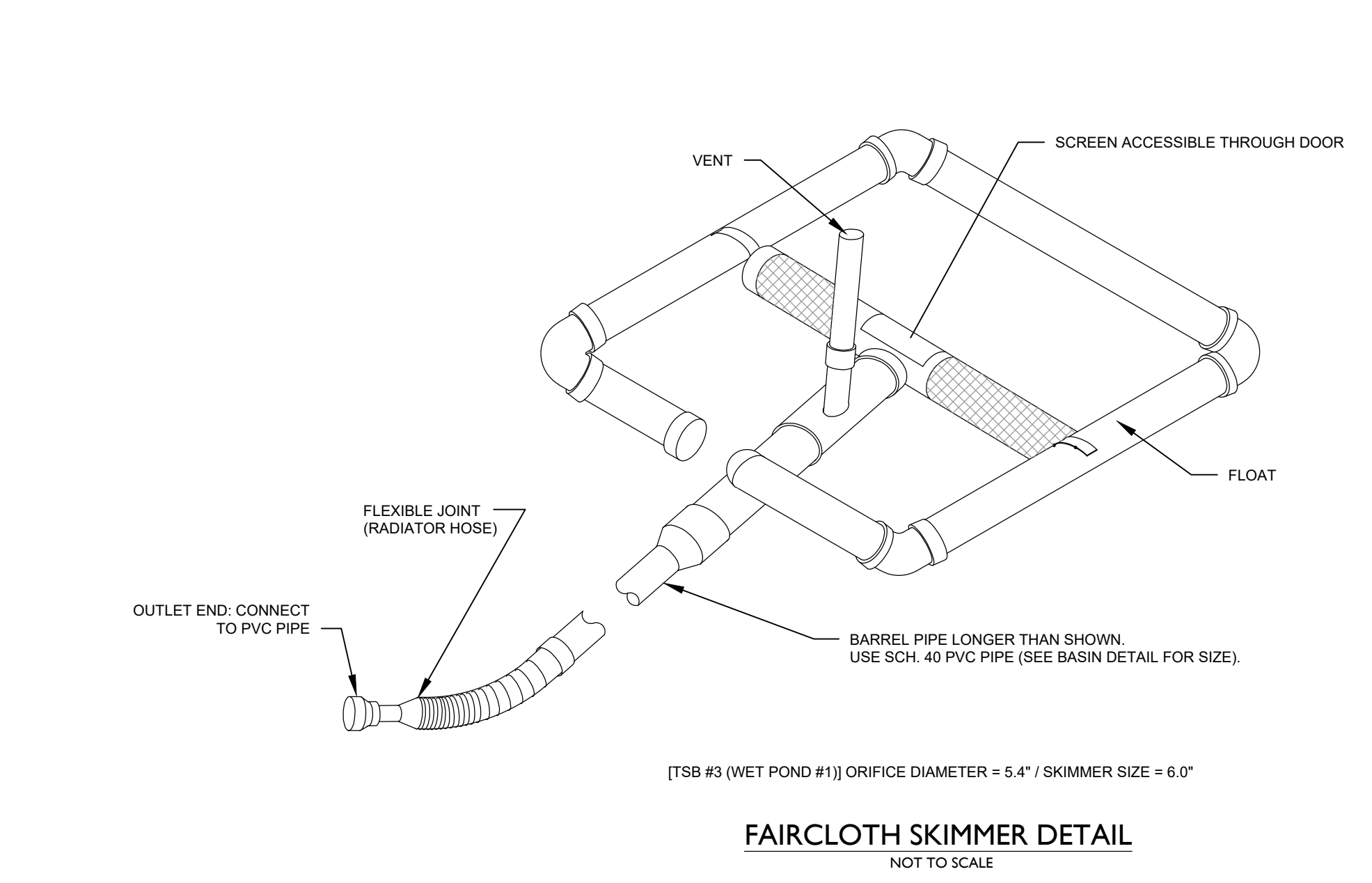
POND #1B EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



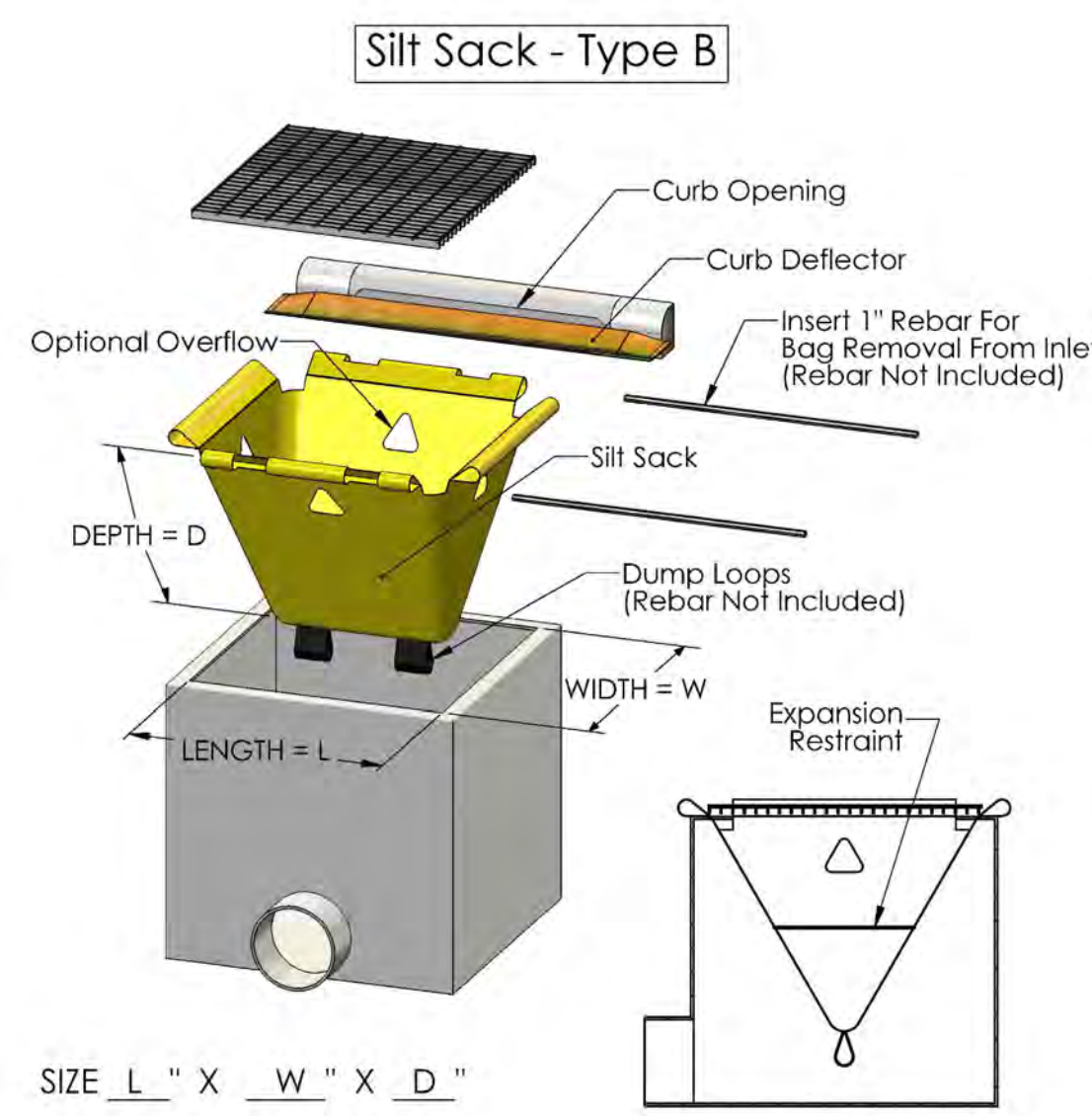
POND #1A - FOREBAY AND STORAGE POND SECTION
NOT TO SCALE



POND #1B - FOREBAY AND STORAGE POND SECTION
NOT TO SCALE



FAIRCLOTH SKIMMER DETAIL
NOT TO SCALE



SIZE L " X W " X D "

REVISIONS:	02/17/21
1. PER NHC COMMENT	
CLIENT INFORMATION:	CK WILMINGTON THREE PHASE A, LLC CHARLOTTE, NC
ENGINEERING:	PARAMOUNT ENGINEERING
122 Cinema Drive Wilmington, North Carolina 28403 (910) 791-6707 (O) (910) 791-6766 (F) NC License #: C-2846	
EC & STORM DETAILS	WILMINGTON THREE PHASE A CITY OF WILMINGTON NORTH CAROLINA
PROJECT STATUS: CONCEPT LAYOUT: PRELIMINARY LAYOUT: RELEASED FOR CONST:	DATE: 02/17/21 DESIGNED: AS DRAWN: DDF CHECKED: DDF
Professional Seal redacted on electronic copy per City of Wilmington Policy	
C-6.05	
PEI JOB#: 20195.PE	

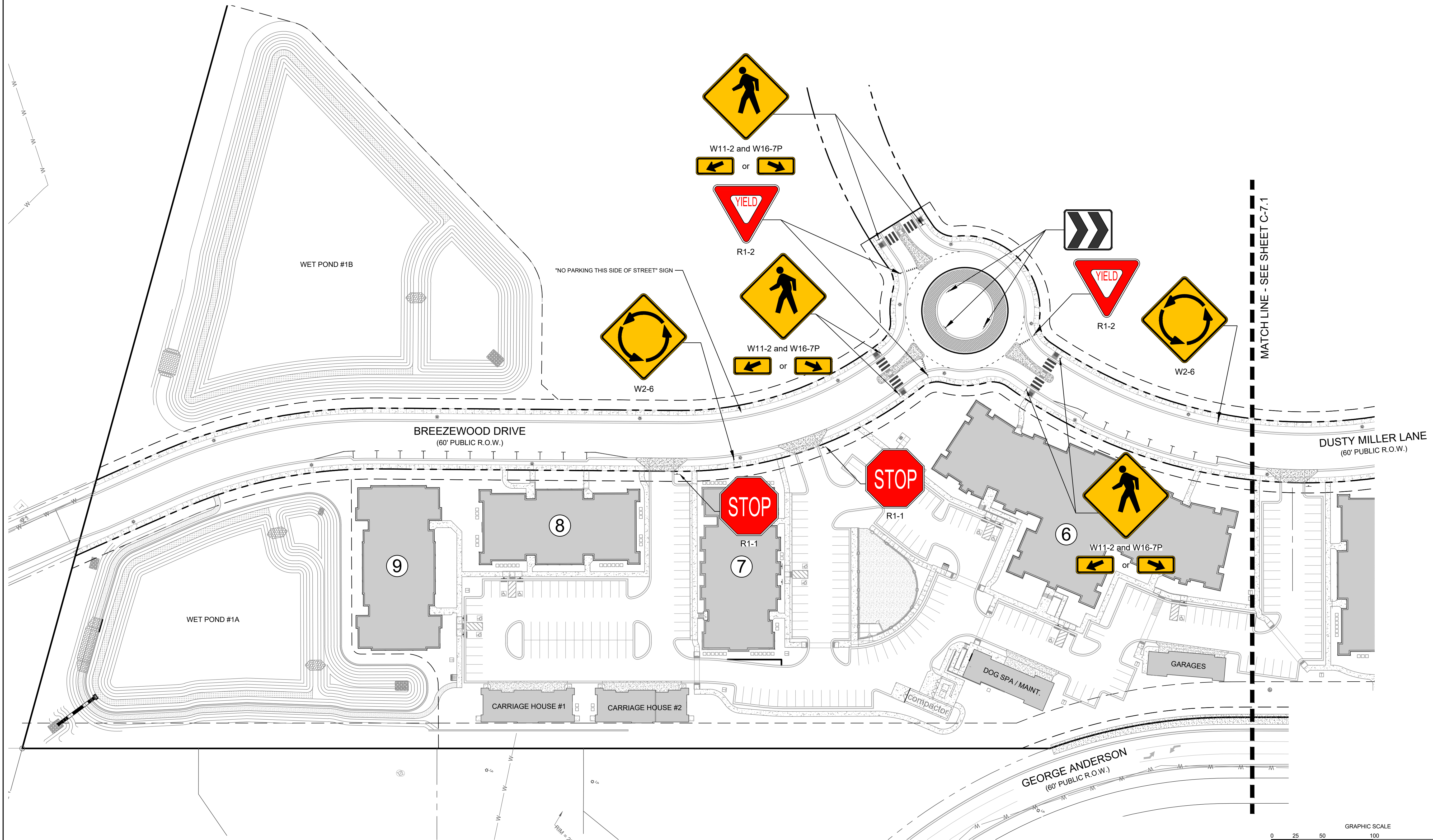
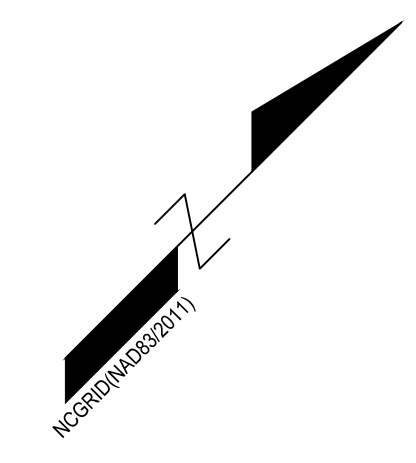


ISSUED FOR: PRELIMINARY PERMITTING CONSTRUCTION

PAVEMENT MARKING LEGEND:

CONTRACTOR SHALL REFER TO NCDOT STANDARD DETAIL #1205.01 FOR PAVEMENT MARKINGS

SYMBOL	DESCRIPTION	PAVEMENT MARKINGS			
T9	2 FT - 6 FT WHITE MINISKIP	THERMOPLASTIC (4", 90MILS)	60 LF		
TE	WHITE SOLID LINE		525 LF		
				TOTAL	585 LF
T3	WHITE CROSSWALK LINE	THERMOPLASTIC (24", 90MILS)	180 LF		
				TOTAL	180 LF
UM	12" YIELD LINE TRIANGLE	THERMOPLASTIC THICK SYMBOLS (90MILS)	18 EA		
				TOTAL	18 EA



REVISIONS:

CLIENT INFORMATION:
CK WILMINGTON
 THREE PHASE A, LLC
 CHARLOTTE, NC

PARAMOUNT
 ENGINEERING
 122 Cinema Drive
 Wilmington, North Carolina 28403
 (910) 791-6707 (O) (910) 791-6766 (F)
 NC License #: C-2846

STRIPING & SIGNAGE PLAN
 WILMINGTON THREE PHASE A
 CITY OF WILMINGTON
 NORTH CAROLINA

PROJECT STATUS

CONCEPTUAL LAYOUT:	
PRELIMINARY LAYOUT:	
RELEASED FOR CONSTRUCTION:	

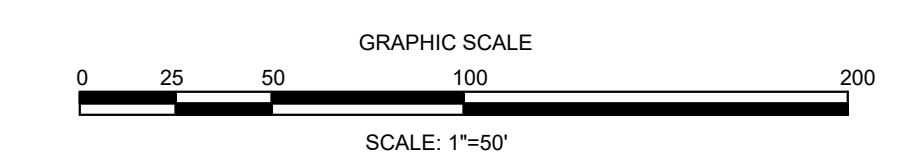
DRAWING INFORMATION

DATE:	03.25.21
DESIGNED BY:	DF
DRAWN BY:	DF
CHECKED BY:	DF

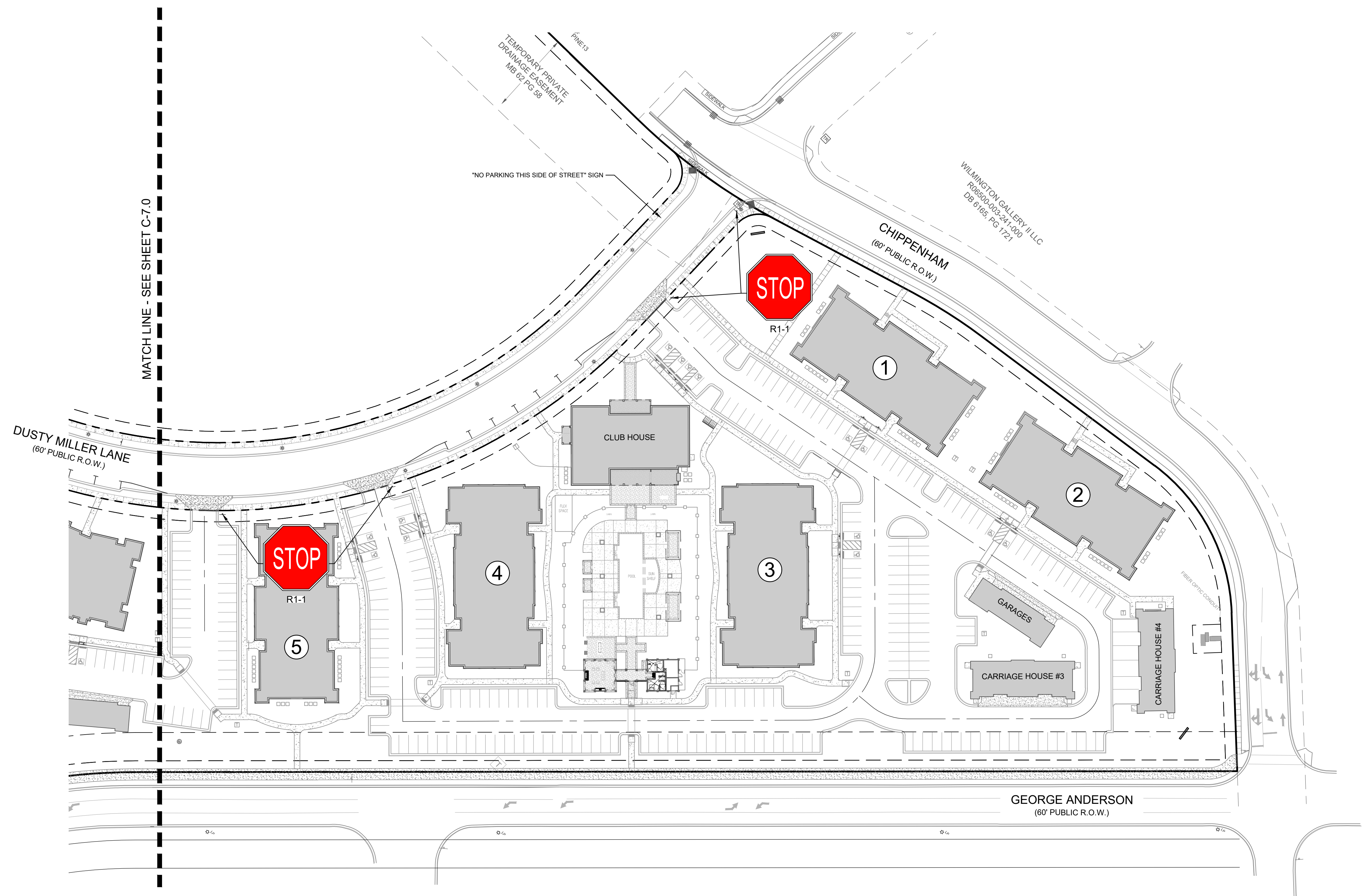
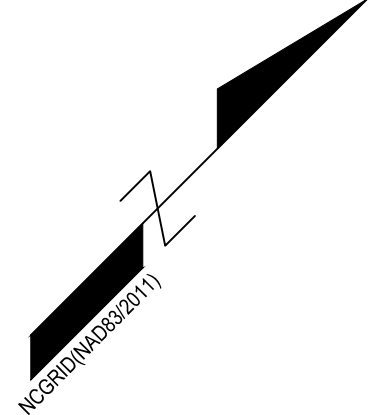
Professional Seal redacted on electronic copy per City of Wilmington Policy

C-7.0

PEI JOB#: 20195.PE



ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

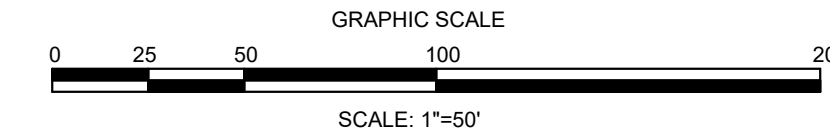


MATCH LINE - SEE SHEET C-7.0

DUSTY MILLER LANE
(60' PUBLIC R.O.W.)

CHIPPENHAM
(60' PUBLIC R.O.W.)

GEORGE ANDERSON
(60' PUBLIC R.O.W.)



ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

PROJECT STATUS
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST:
DRAWING INFORMATION
DATE: 03.25.21
DESIGNED: 1" DF
DRAWN: 1" DF
CHECKED: 1" DF

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

C-7.1

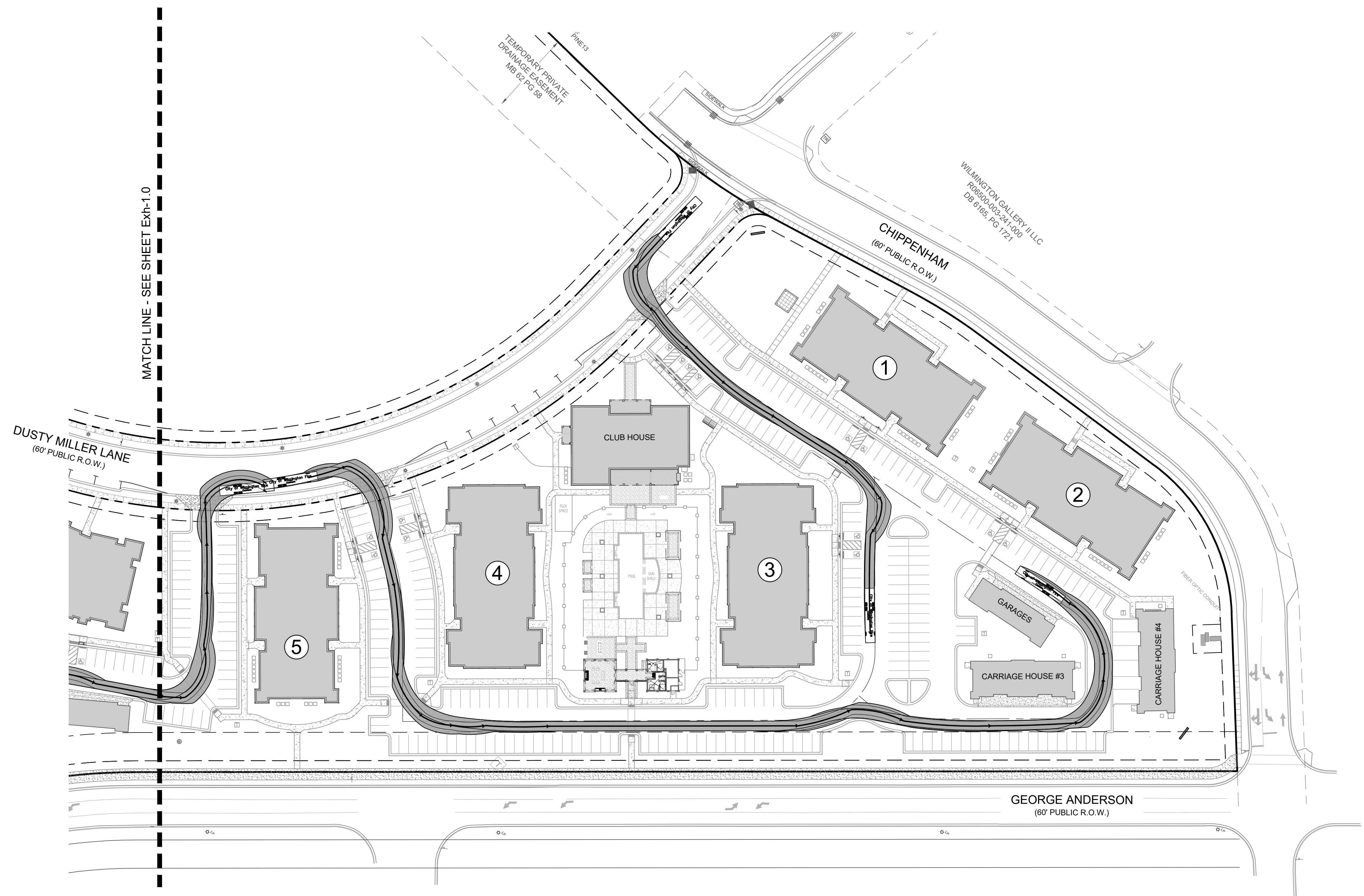
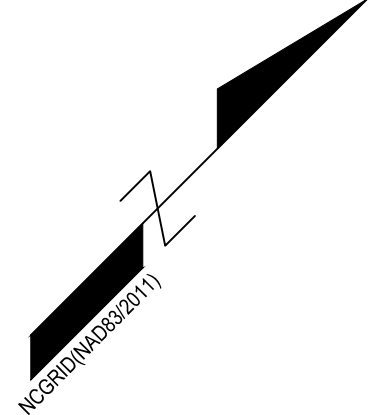
PEI JOB#: 20195.PE

STRIPING & SIGNAGE PLAN
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PARAMOUNT ENGINEERING, INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

REVISIONS:



MATCH LINE - SEE SHEET Exh-1.0

DUSTY MILLER LANE
(60' PUBLIC R.O.W.)

CHIPPENHAM
(60' PUBLIC R.O.W.)

GEORGE ANDERSON
(60' PUBLIC R.O.W.)

WILMINGTON GALLERY II, LLC
10800D03241-100
DB 01/05, PG 1721

TEMPORARY PRIVATE
DRAINAGE EASEMENT
MB 02 PG 58

CLUB HOUSE

GARAGES

CARRIAGE HOUSE #3

CARRIAGE HOUSE #4

5

4

3

1

2

ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

PROJECT STATUS
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST:

DRAWING INFORMATION
DATE: 03.25.21
DESIGNED: 1" DF
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Professional Seal
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Wilmington Policy

Exh-1.1

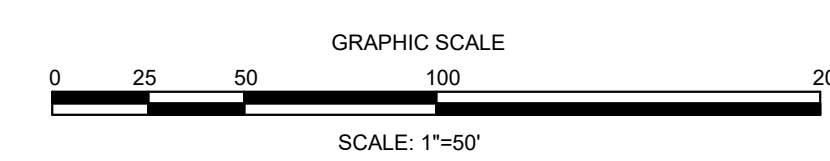
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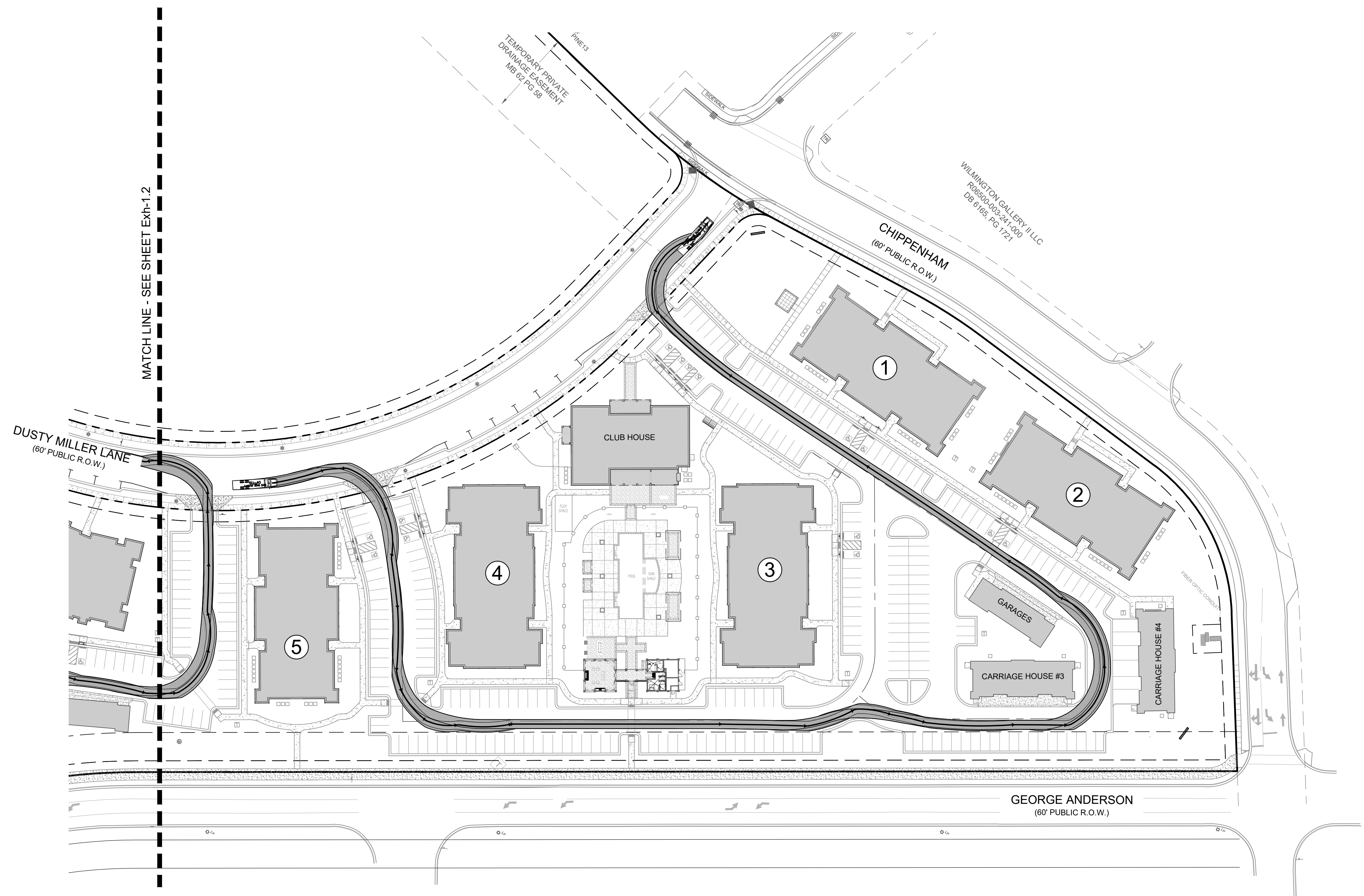
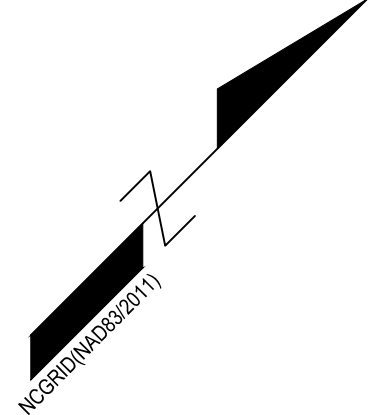
STRIPING & SIGNAGE PLAN
FIRE TRUCK
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PARAMOUNT
ENGINEERING, INC.
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

REVISIONS:





MATCH LINE - SEE SHEET Exh-1.2

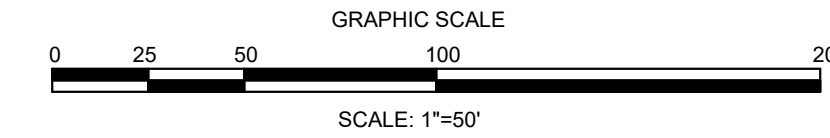
TEMPORARY PRIVATE DRAINAGE EASEMENT MB 62 PG 58

WILMINGTON GALLERY II, LLC
10800D03241-1000
DB 6165, PG 1721

CHIPPENHAM
(60' PUBLIC R.O.W.)

DUSTY MILLER LANE
(60' PUBLIC R.O.W.)

GEORGE ANDERSON
(60' PUBLIC R.O.W.)



ISSUED FOR: PRELIMINARY PERMITTING BID CONSTRUCTION

PROJECT STATUS:
CONCEPTUAL LAYOUT:
PRELIMINARY LAYOUT:
RELEASED FOR CONST.:
DRAWING INFORMATION:
DATE: 03.25.21
DESIGNED: 1" DF
DRAWN: 1" DF
CHECKED: 1" DF

Professional Seal
redacted on electronic
copy per City of
Wilmington Policy

Exh-1.3

PEI JOB#: 20195.PE

STRIPING & SIGNAGE PLAN
TRUCK (SU-40)
WILMINGTON THREE PHASE A
CITY OF WILMINGTON
NORTH CAROLINA

PARAMOUNT ENGINEERING
122 Cinema Drive
Wilmington, North Carolina 28403
(910) 791-6707 (O) (910) 791-6766 (F)
NC License #: C-2846

CLIENT INFORMATION:
CK WILMINGTON
THREE PHASE A, LLC
CHARLOTTE, NC

REVISIONS:



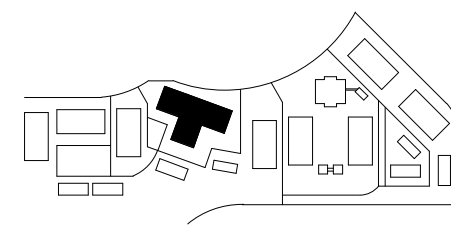
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 - CONTROL JOINTS SHOULD OCCUR AT INSIDE CORNERS AS NEEDED TO MEET BRICK INDUSTRY ASSOCIATION STANDARDS. EXTEND UP ENTIRE MASONRY VENEER FACE, U.N.O.
 - SEAL ALL WALL PENETRATIONS WITH MEMBRANE FLASHING AT SURFACE OF EXTERIOR SHEATHING U.N.O., SEE WATERPROOFING DETAILS.
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 - SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.

NOT FOR CONSTRUCTION

PROJECT NUMBER: 2006
ISSUE DATE: SEPTEMBER 10TH, 2020
ISSUED FOR: 30% SET

REVISIONS

KEY PLAN



BLDG TYPE A -
ELEVATIONS

A4.A16



2 BLDG TYPE A - FRONT ELEVATION 2
1/8" = 1'-0"



3 BLDG TYPE A - FRONT ELEVATION 3
1/8" = 1'-0"



1 BLDG TYPE A - FRONT ELEVATION 1
1/8" = 1'-0"



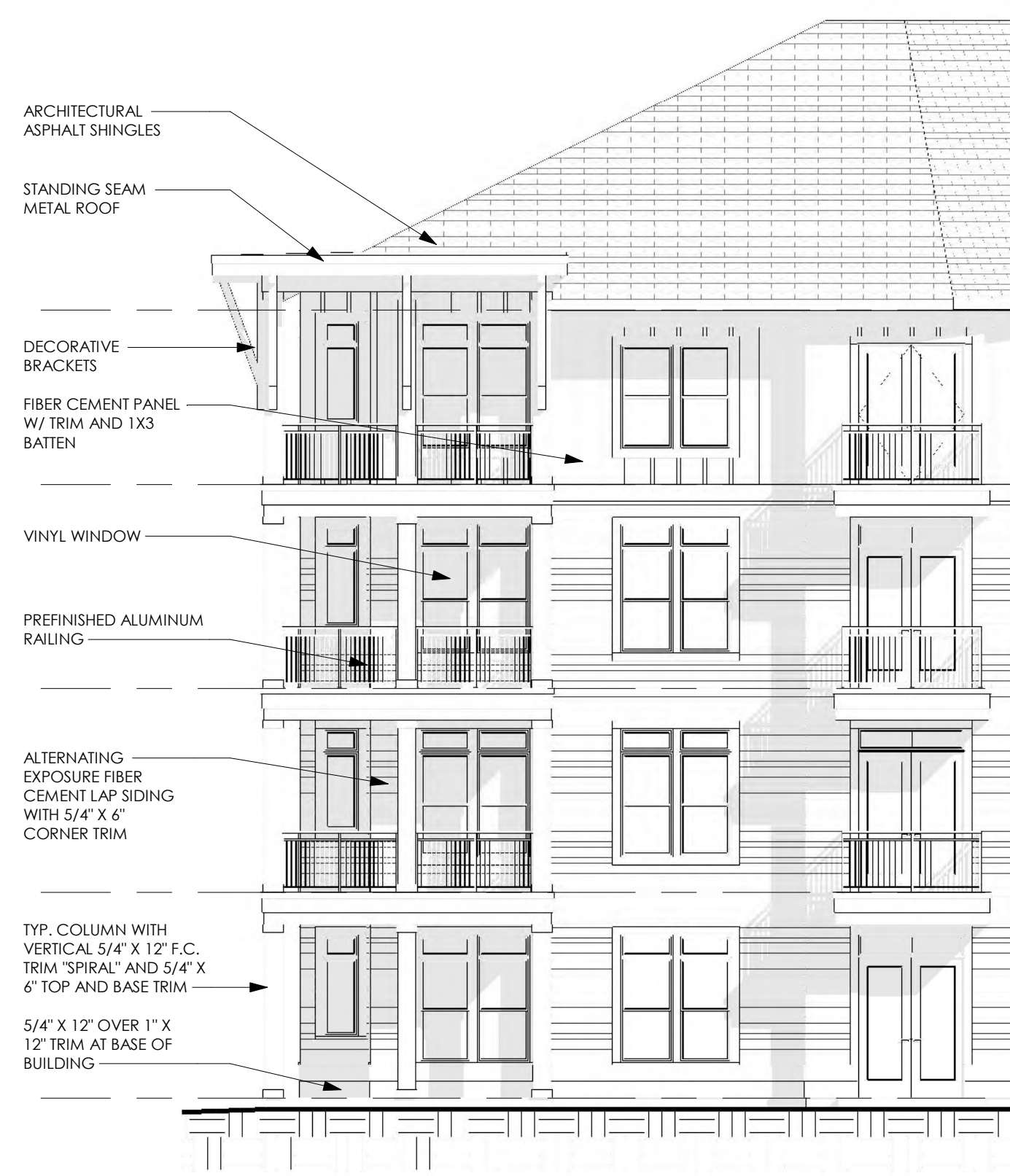
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 - SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.



5 BLDG TYPE A - REAR ELEVATION 5
1/8" = 1'-0"



4 BLDG TYPE A - REAR ELEVATION 4
1/8" = 1'-0"



3 BLDG TYPE A - REAR ELEVATION 3
1/8" = 1'-0"



2 BLDG TYPE A - REAR ELEVATION 2
1/8" = 1'-0"



1 BLDG TYPE A - REAR ELEVATION 1
1/8" = 1'-0"

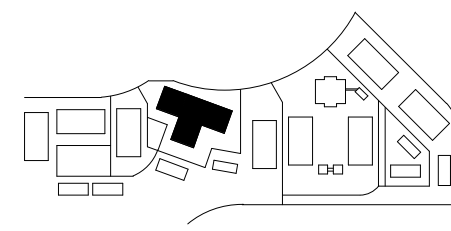


NOT FOR CONSTRUCTION

PROJECT NUMBER: 2006
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ISSUED FOR: 30% SET

REVISIONS

KEY PLAN



BLDG TYPE A -
ELEVATIONS



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④ BLDG TYPE A - SIDE 2 ELEVATION 2
1/8" = 1'-0"



② BLDG TYPE A - SIDE 1 ELEVATION 2
1/8" = 1'-0"



③ BLDG TYPE A - SIDE 2 ELEVATION 1
1/8" = 1'-0"



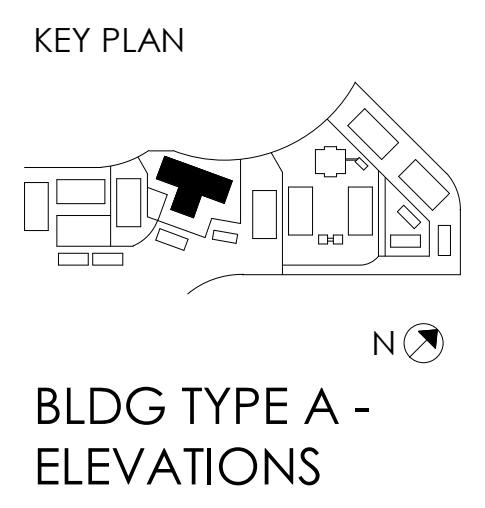
① BLDG TYPE A - SIDE 1 ELEVATION 1
1/8" = 1'-0"



NOT FOR CONSTRUCTION

PROJECT NUMBER: 2006
ISSUE DATE: SEPTEMBER 10TH, 2020
ISSUED FOR: 30% SET

REVISIONS





HOUSING STUDIO

333 West Trade Street, Suite 300
Charlotte, NC 28202
T: 704.333.7862 F: 980.237.3862

- GENERAL NOTES - BUILDING ELEVATIONS**
- EXTERIOR MATERIALS, DETAILING, AND COLORS TO WRAP AT ALL EXTERIOR CORNERS AND TERMINATE AT THE INSIDE CORNER, U.N.O.
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 - SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.

CHILDRESS KLEIN -
BARCLAY PHASE A
VOLUME 1: CIVIL - LANDSCAPE -
ARCHITECTURE - INTERIORS
WILMINGTON, NC

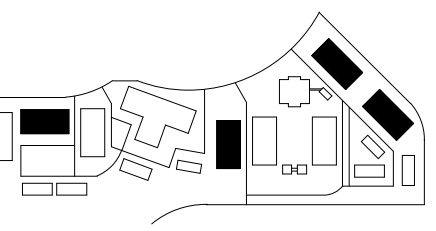


NOT FOR
CONSTRUCTION

PROJECT NUMBER: 2006
ISSUE DATE: SEPTEMBER 10TH, 2020
ISSUED FOR: 30% SET

REVISIONS

KEY PLAN

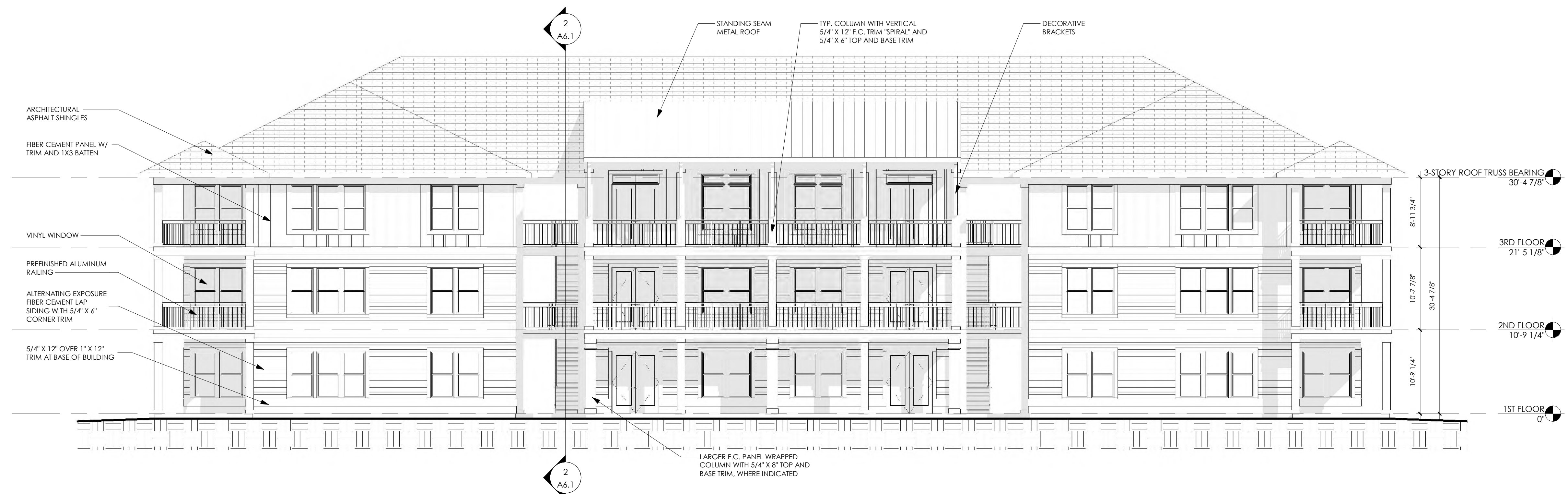


BLDG TYPE B -
ELEVATIONS

A4.B5



2 BLDG TYPE B - REAR ELEVATION
1/8" = 1'-0"



1 BLDG TYPE B - FRONT ELEVATION
1/8" = 1'-0"



HOUSING STUDIO

333 West Trade Street, Suite 300
Charlotte, NC 28202
T: 704.333.7862 F: 980.237.3862

GENERAL NOTES - BUILDING ELEVATIONS	
<ul style="list-style-type: none"> EXTERIOR MATERIALS, DETAILING, AND COLORS TO WRAP AT ALL EXTERIOR CORNERS AND TERMINATE AT THE INSIDE CORNER, U.N.O. CONTROL JOINTS SHOULD OCCUR AT INSIDE CORNERS AS NEEDED TO MEET BRICK INDUSTRY ASSOCIATION STANDARDS. EXTEND UP ENTIRE MASONRY VENEER FACE, U.N.O. SEAL ALL WALL PENETRATIONS WITH MEMBRANE FLASHING AT SURFACE OF EXTERIOR SHEATHING U.N.O., SEE WATERPROOFING DETAILS. PROVIDE 3/8" JOINT SPACE WITH SEALANT AND AT INTERFACE BETWEEN DISSIMILAR EXTERIOR FINISHES. ALL FIBER CEMENT TO BE PRIMED AND PAINTED SMOOTH PANEL WITH FIBER CEMENT TRIM AS NOTED OR LAP SIDING WITH TRIM AS NOTED. PRIME AND PAINT ALL CUT EDGES OF FIBER CEMENT PANELING PRIOR TO INSTALLATION. G.C. TO COORDINATE WITH MEP, ARCH., AND STRUCTURAL TO MATCH DRYER AND EXHAUST VENT LOCATIONS WITH DRAWINGS. VENTS TO BE PAINTED BASED ON ADJACENT FIELD COLORS. ARCH. TO PROVIDE COLORS. ALL VENTS TO BE LOCATED TO THE LEFT OR RIGHT OF WINDOWS, NOT DIRECTLY ABOVE, UNLESS SHOWN OTHERWISE. COMMERCIAL BUILDING WRAP TO BE USED AT EXTERIOR ENVELOPE. CONDUCTORS, SCUPPERS, AND DOWNSPOUTS TO BE PREFINISHED. COLOR TO BE SELECTED BY ARCH. PROVIDE SILICONE SEALANTS AT ALL MASONRY CONTROL JOINTS AND WINDOWS/DOORS IN MASONRY. 	<ul style="list-style-type: none"> PROVIDE URETHANE SEALANTS AT PANEL CONDITIONS, INCLUDING WINDOW/DOORS PERIMETERS (IF ANTICIPATED TO BE PAINTED, OTHERWISE SILICONE IS TO BE USED). PROVIDE PREFABRICATED FLASHING COMPONENTS AT DRYER/EXHAUST VENTS. PROVIDE FLASHING AT HORIZONTAL TRANSITIONS BETWEEN WALL FINISHES. REFERENCE CIVIL/LANDSCAPING DRAWINGS FOR ENTRY/PATIO CONNECTIONS AT GRADE. ALL GROUND LEVEL UNITS AT POOL COURTYARD SHALL HAVE RAILINGS 48" MIN. FROM PATIO F.F.E. OR LOWEST HORIZONTAL RAILING, WHICHEVER IS HIGHER. WINDOWS SHALL HAVE WINDOW LIMITERS PER 2013 NCENR - 15 NCAC 18A2528. REFERENCE MATERIAL SELECTION ELEVATIONS FOR ALL MATERIAL, COLOR, AND MASONRY CALLOUTS. INDICATES LOCATION OF RAIN LEADERS. REF. ROOF PLANS. 42" HIGH ALUMINUM RAILINGS TYP. AT ALL 2ND - 4TH FLOOR BALCONIES. UNIT BALCONY DOORS TO MATCH VINYL WINDOW COLOR SELECTION. USE OF HIGH TEMPERATURE PAINT, TYP. SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.



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BARCLAY PHASE A
VOLUME 1: CIVIL - LANDSCAPE -
ARCHITECTURE - INTERIORS
WILMINGTON, NC

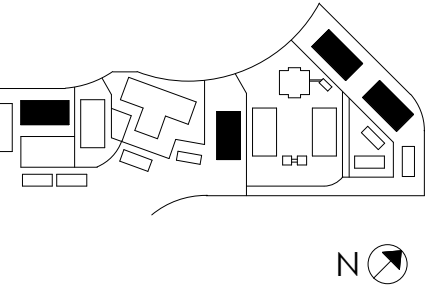


NOT FOR
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REVISIONS

KEY PLAN



BLDG TYPE B -
ELEVATIONS

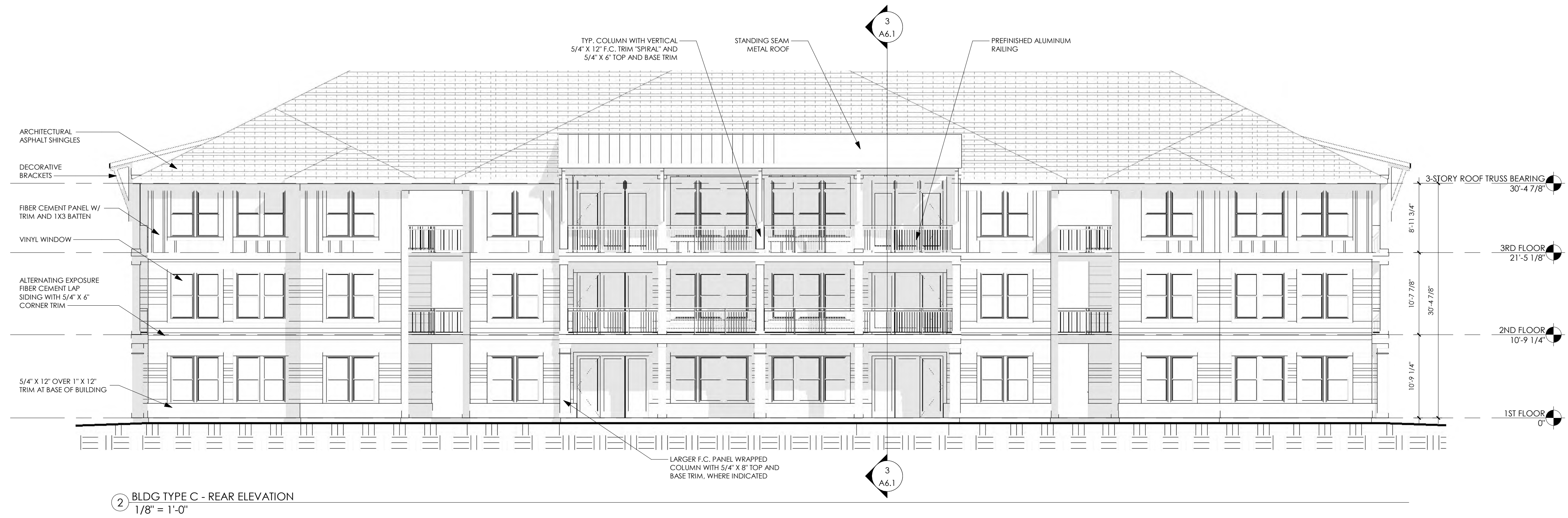
A4.B6



HOUSING STUDIO

333 West Trade Street, Suite 300
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T: 704.333.7862 F: 980.237.3862

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2 BLDG TYPE C - REAR ELEVATION
1/8" = 1'-0"



1 BLDG TYPE C - FRONT ELEVATION
1/8" = 1'-0"

CHILDRESS KLEIN -
BARCLAY PHASE A
VOLUME 1: CIVIL - LANDSCAPE -
ARCHITECTURE - INTERIORS
WILMINGTON, NC

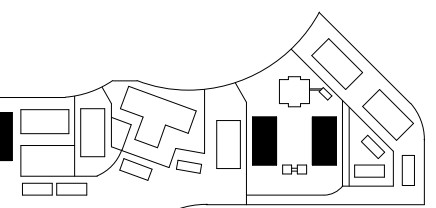


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CONSTRUCTION

PROJECT NUMBER: 2006
ISSUE DATE: SEPTEMBER 10TH, 2020
ISSUED FOR: 30% SET

REVISIONS

KEY PLAN



BLDG TYPE C -
ELEVATIONS

A4.C5



HOUSING STUDIO

333 West Trade Street, Suite 300
Charlotte, NC 28202
T: 704.333.7862 F: 980.237.3862

- GENERAL NOTES - BUILDING ELEVATIONS**
- EXTERIOR MATERIALS, DETAILING, AND COLORS TO WRAP AT ALL EXTERIOR CORNERS AND TERMINATE AT THE INSIDE CORNER, U.N.O.
 - CONTROL JOINTS SHOULD OCCUR AT INSIDE CORNERS AS NEEDED TO MEET BRICK INDUSTRY ASSOCIATION STANDARDS. EXTEND UP ENTIRE MASONRY VENEER FACE, U.N.O.
 - SEAL ALL WALL PENETRATIONS WITH MEMBRANE FLASHING AT SURFACE OF EXTERIOR SHEATHING U.N.O., SEE WATERPROOFING DETAILS.
 - PROVIDE 3/8" JOINT SPACE WITH SEALANT AND AT INTERFACE BETWEEN DISSIMILAR EXTERIOR FINISHES.
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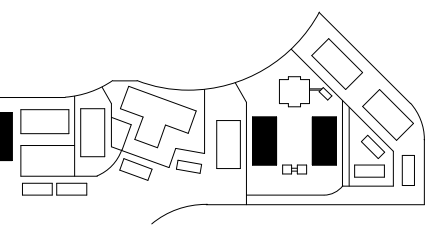


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KEY PLAN



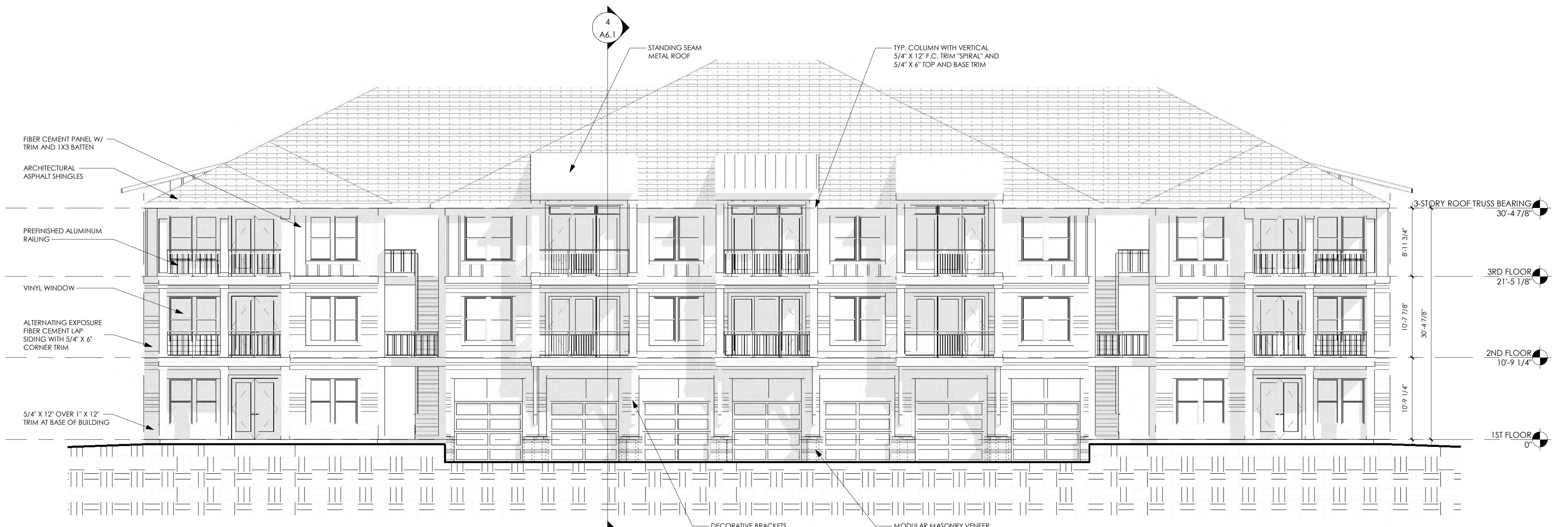
BLDG TYPE C -
ELEVATIONS

A4.C6

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③ BLDG TYPE D - REAR ELEVATION
1/8" = 1'-0"



① BLDG TYPE D - FRONT ELEVATION
1/8" = 1'-0"

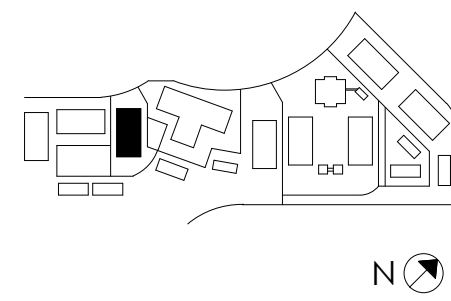


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KEY PLAN



BLDG TYPE D -
ELEVATIONS

A4.D5



HOUSING
STUDIO

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GENERAL NOTES - BUILDING ELEVATIONS	
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2 BLDG TYPE D - SIDE 2 ELEVATION
1/8" = 1'-0"



1 BLDG TYPE D - SIDE 1 ELEVATION
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CHILDRESS KLEIN -
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WILMINGTON, NC

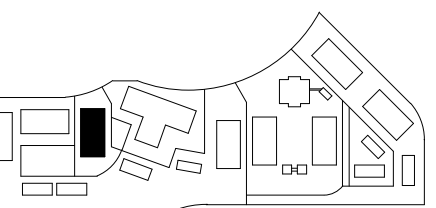


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BLDG TYPE D -
ELEVATIONS

A4.D6



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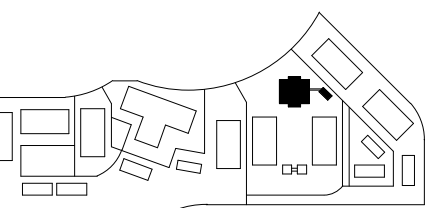


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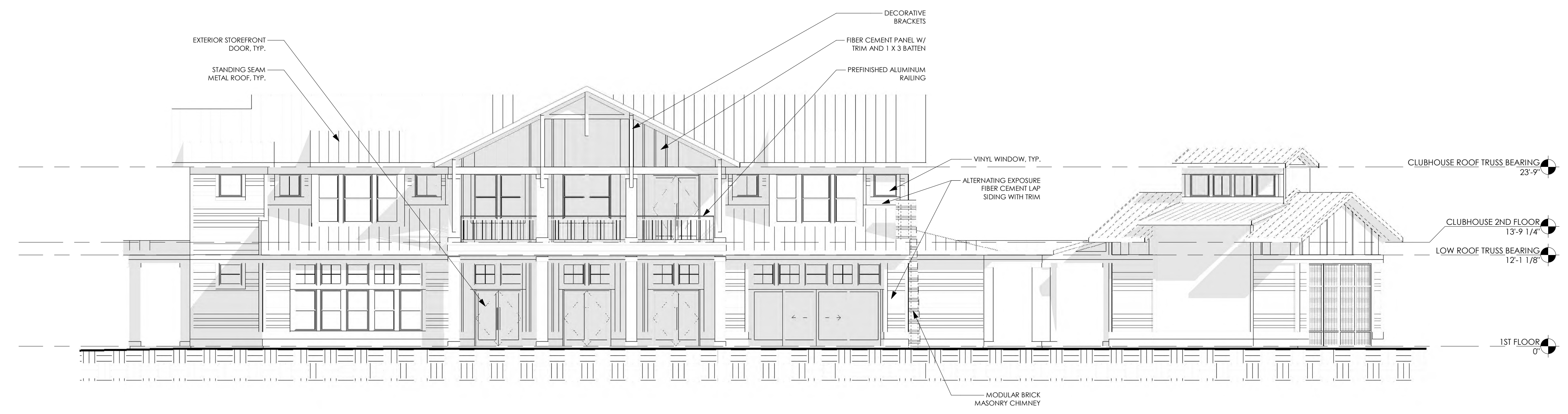
KEY PLAN



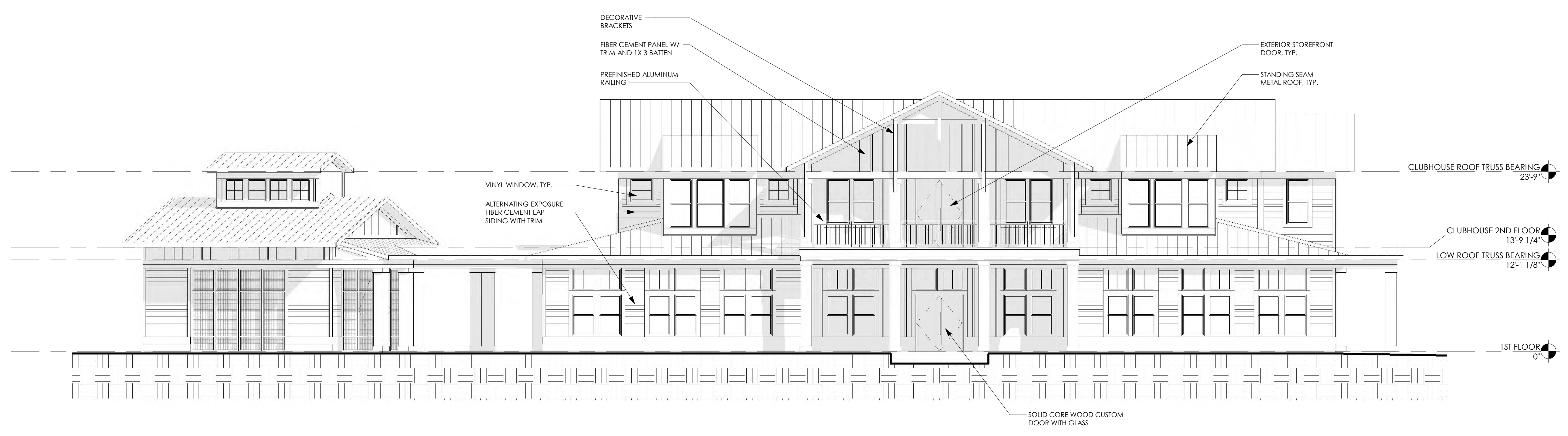
BLDG TYPE F
(CLUBHOUSE) -
ELEVATIONS

A4.F4

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2 BLDG TYPE F - REAR ELEVATION
1/8" = 1'-0"



1 BLDG TYPE F - FRONT ELEVATION
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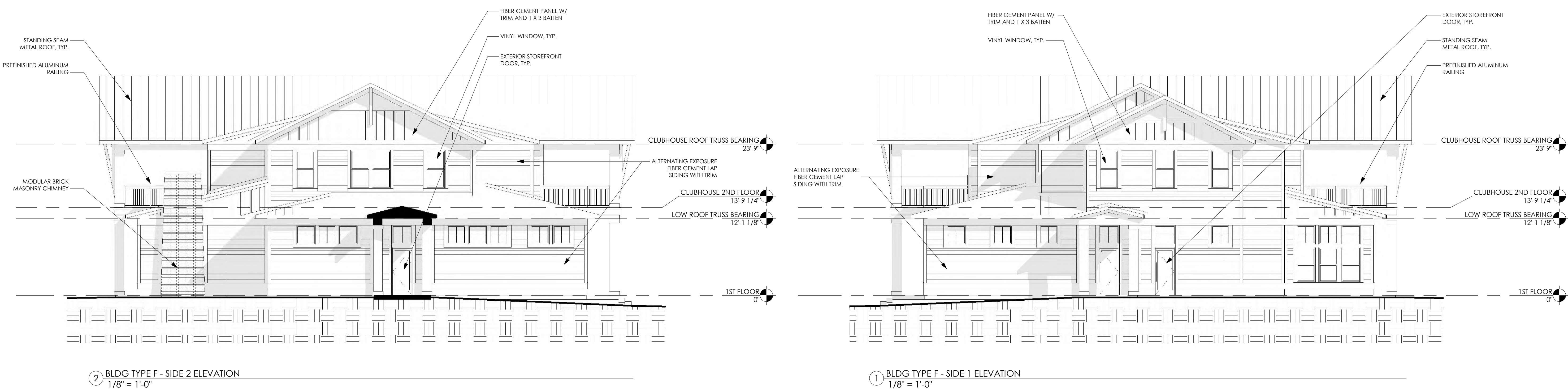
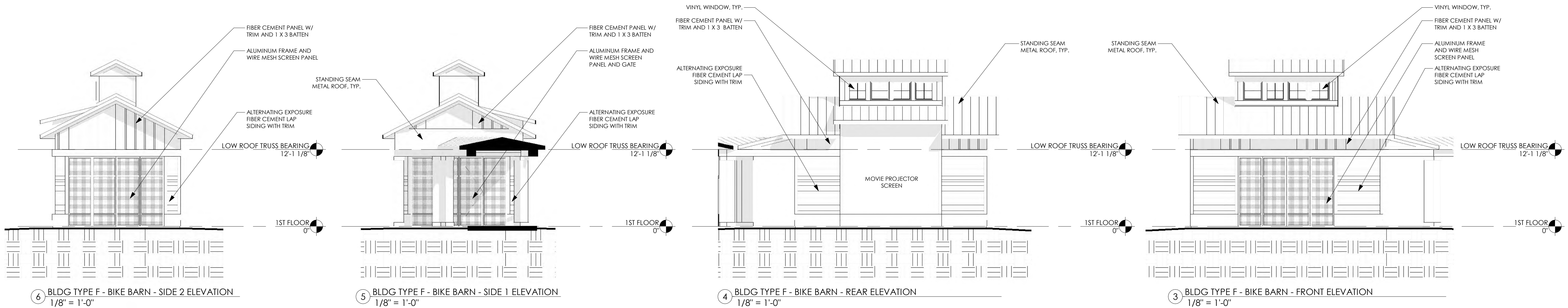
HOUSING STUDIO

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CHILDRESS KLEIN -
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VOLUME 1: CIVIL - LANDSCAPE -
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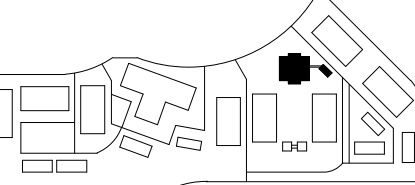


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BLDG TYPE F (CLUBHOUSE) - ELEVATIONS

A4.F5



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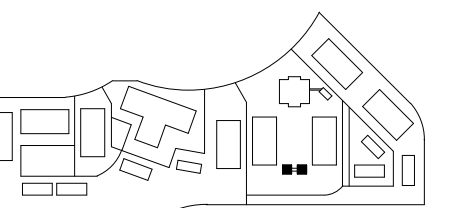


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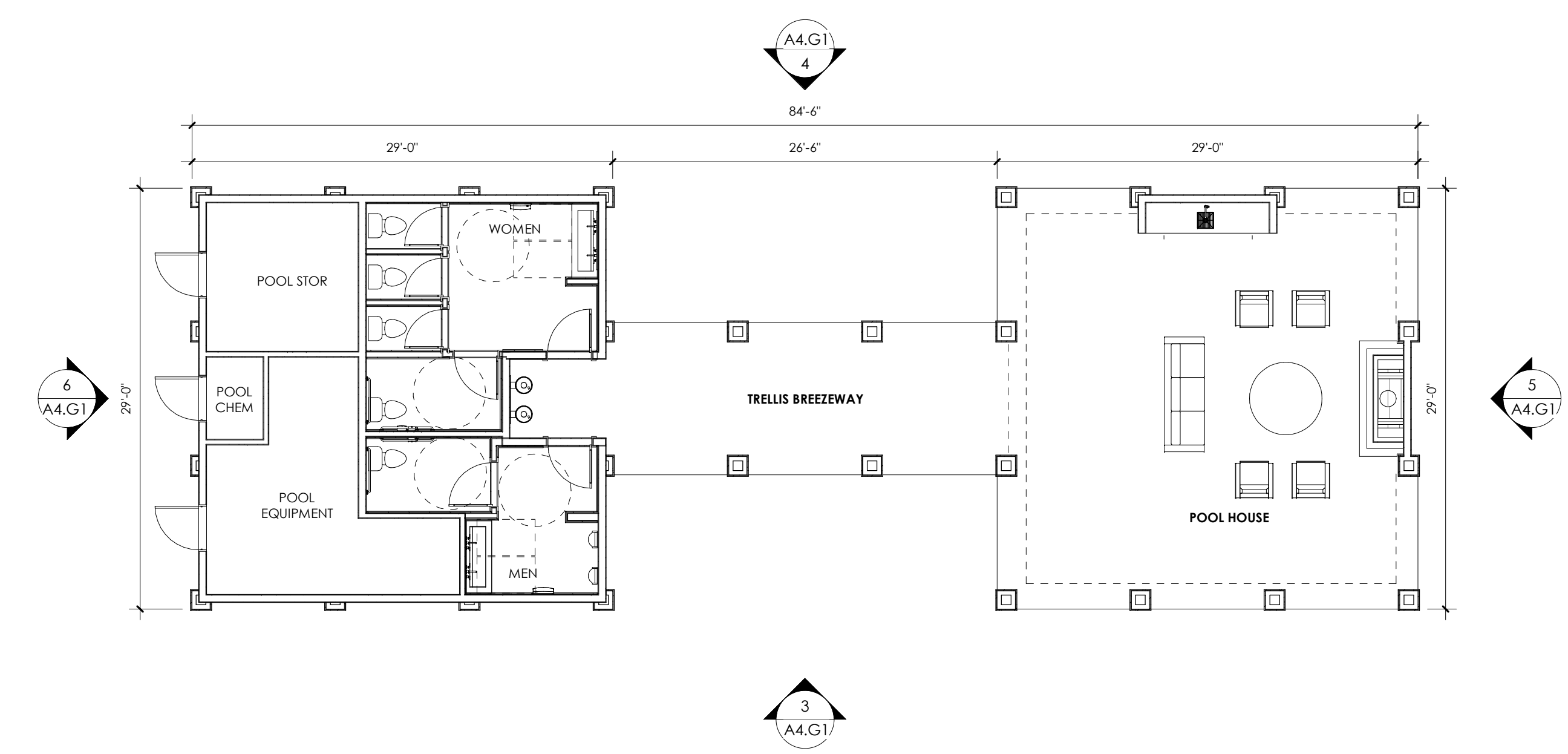
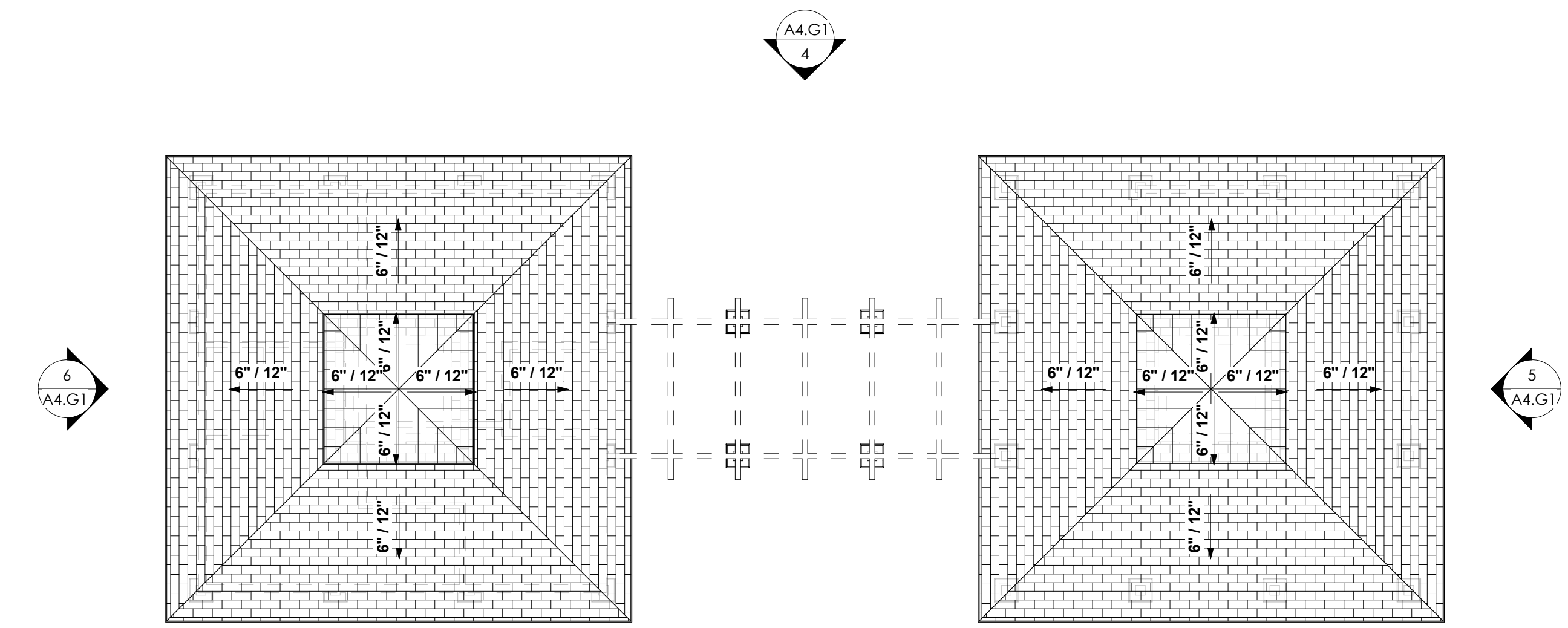
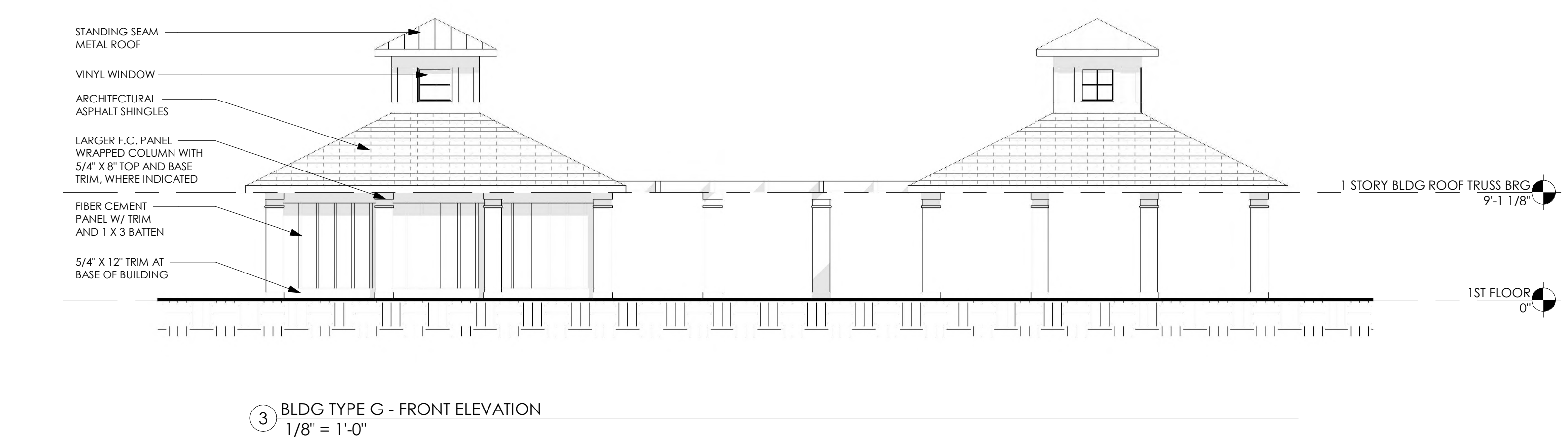
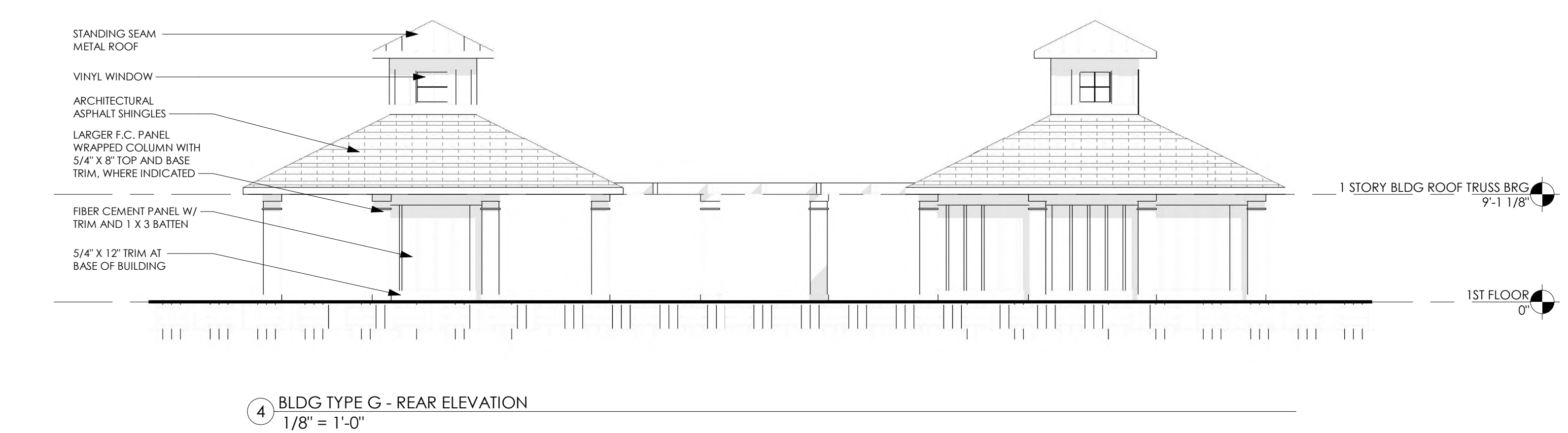
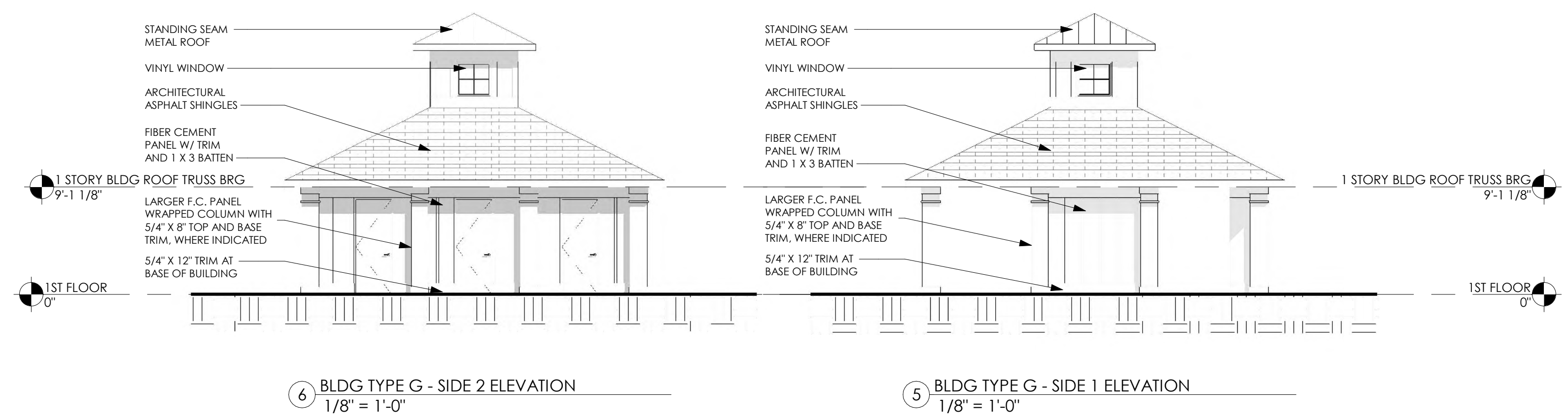
KEY PLAN



BLDG TYPE G
(POOL PAVILION)

A4.G1

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STUDIO

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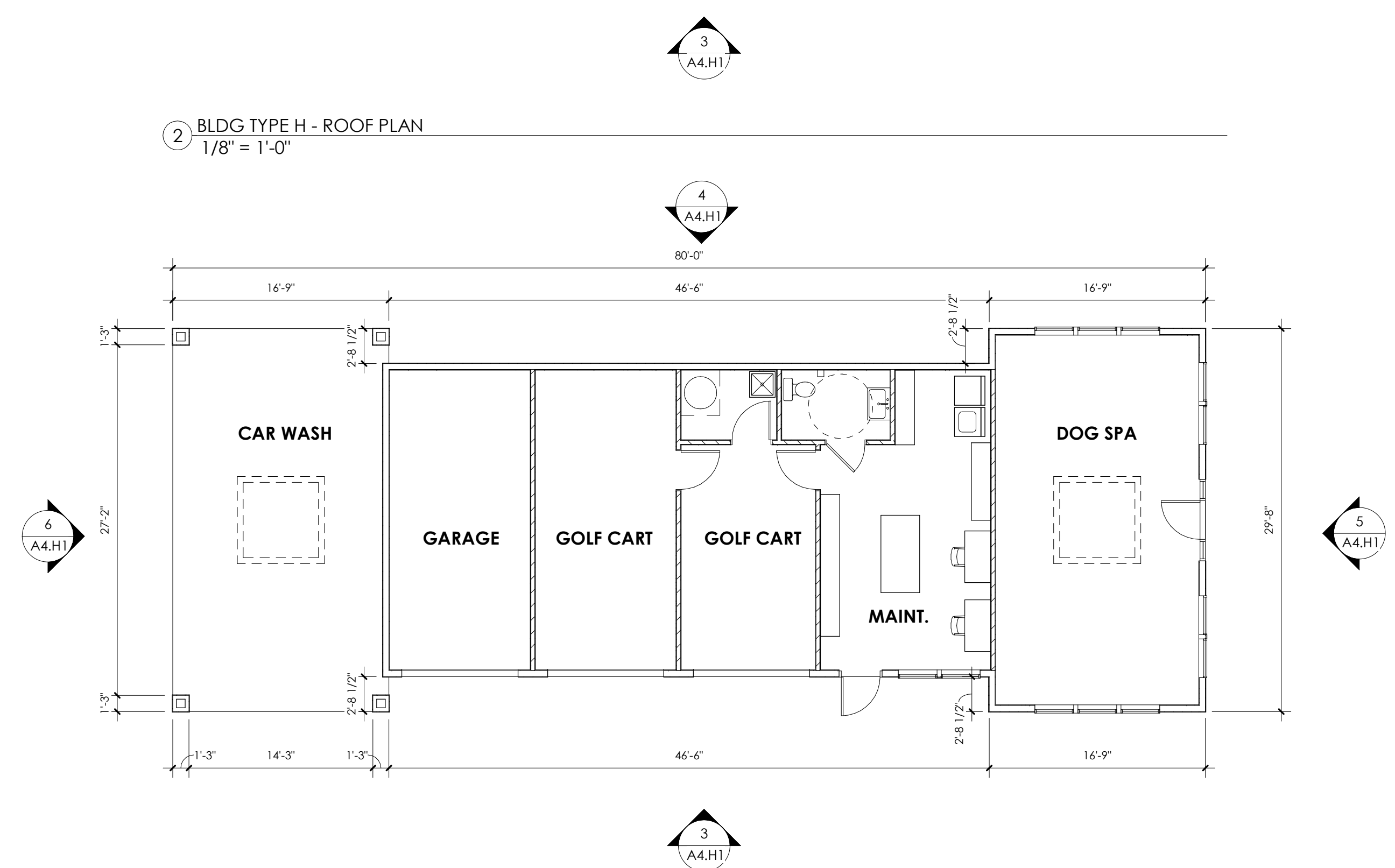
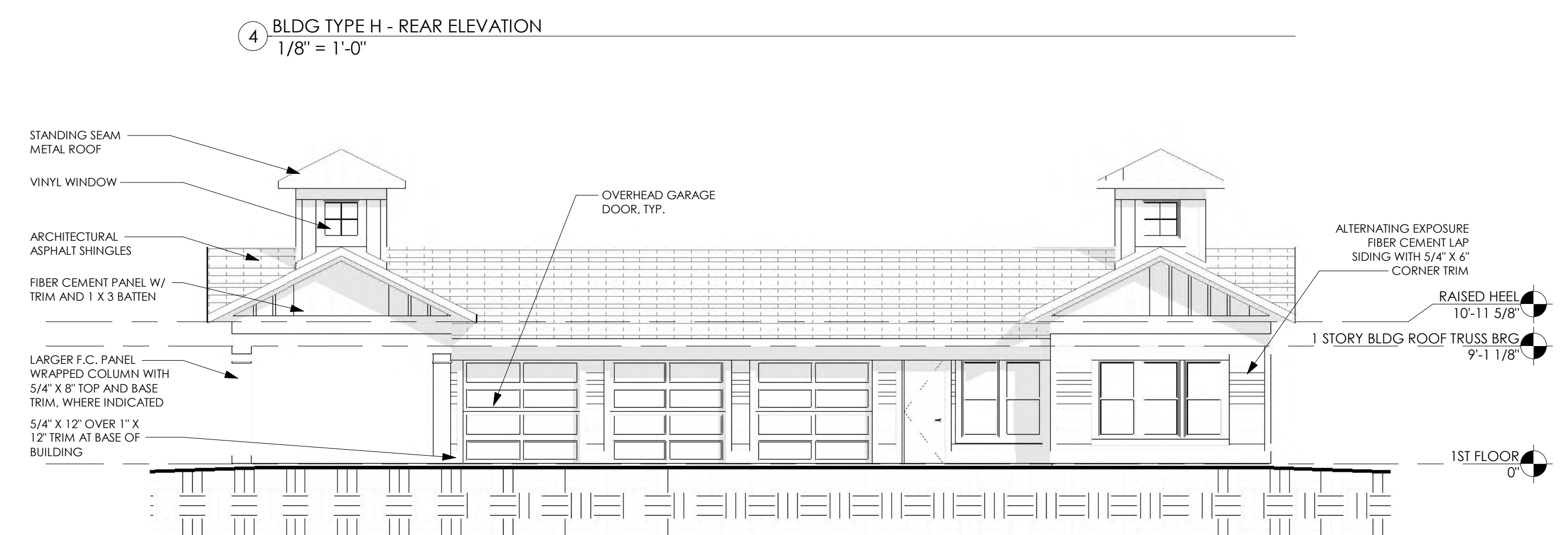
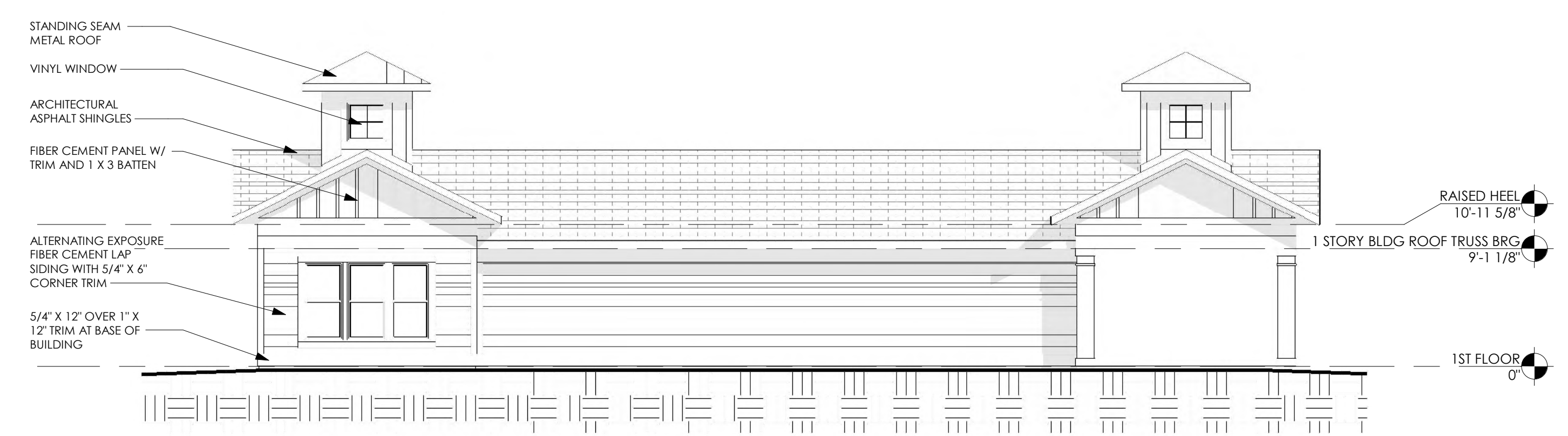
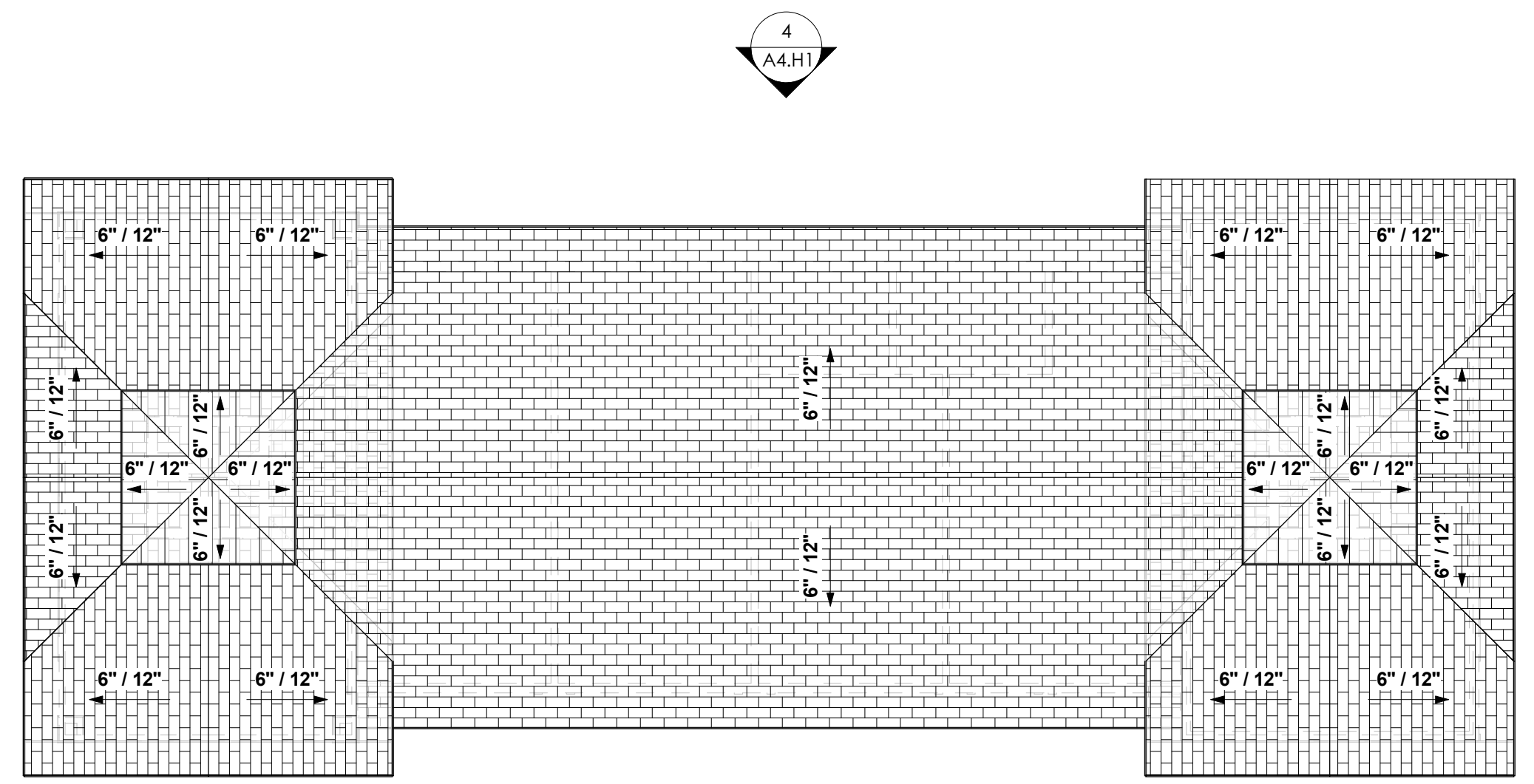
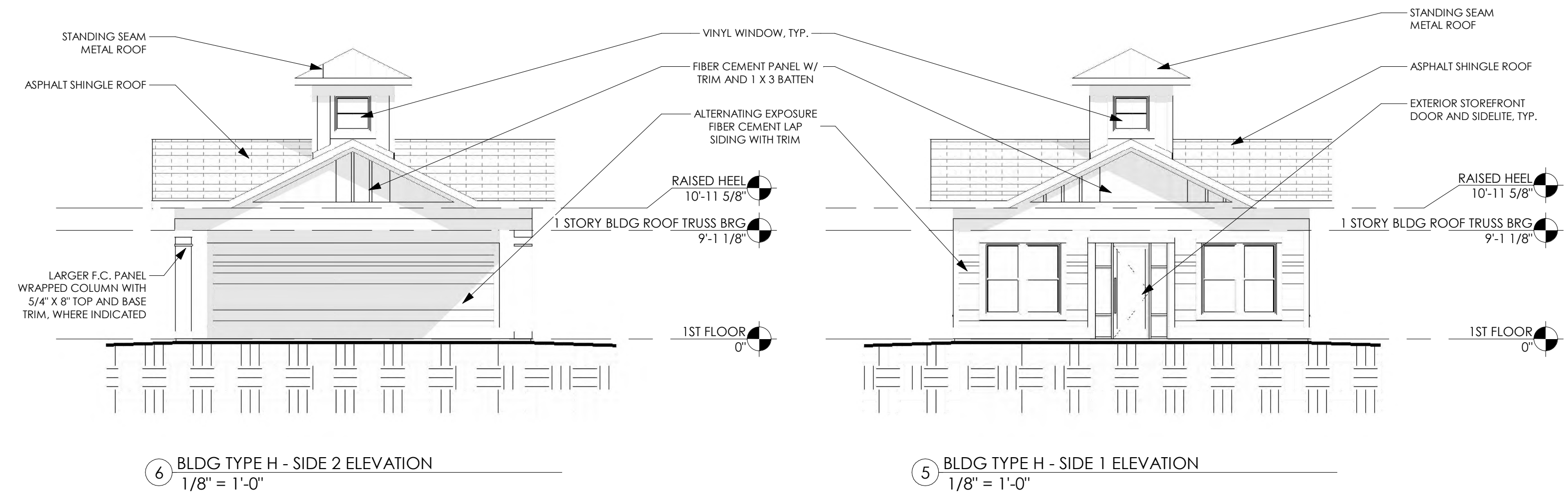
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REVISIONS

BLDG TYPE H
(DOG SPA /
MAINT.)

A4.H1

- GENERAL NOTES - BUILDING ELEVATIONS**
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 - CONTROL JOINTS SHOULD OCCUR AT INSIDE CORNERS AS NEEDED TO MEET BRICK INDUSTRY ASSOCIATION STANDARDS. EXTEND UP ENTIRE MASONRY VENEER FACE, U.N.O.
 - SEAL ALL WALL PENETRATIONS WITH MEMBRANE FLASHING AT SURFACE OF EXTERIOR SHEATHING U.N.O., SEE WATERPROOFING DETAILS.
 - PROVIDE 3/8" JOINT SPACE WITH SEALANT AND AT INTERFACE BETWEEN DISSIMILAR EXTERIOR FINISHES.
 - ALL FIBER CEMENT TO BE PRIMED AND PAINTED SMOOTH PANEL WITH FIBER CEMENT TRIM AS NOTED OR LAP SIDING WITH TRIM AS NOTED. PRIME AND PAINT ALL CUT EDGES OF FIBER CEMENT PANELING PRIOR TO INSTALLATION.
 - G.C. TO COORDINATE WITH MEP, ARCH., AND STRUCTURAL TO MATCH DRYER AND EXHAUST VENT LOCATIONS WITH DRAWINGS. VENTS TO BE PAINTED BASED ON ADJACENT FIELD COLORS. ARCH. TO PROVIDE COLORS. ALL VENTS TO BE LOCATED TO THE LEFT OR RIGHT OF WINDOWS, NOT DIRECTLY ABOVE, UNLESS SHOWN OTHERWISE.
 - COMMERCIAL BUILDING WRAP TO BE USED AT EXTERIOR ENVELOPE.
 - CONDUCTORS, SCUPPERS, AND DOWNSPOUTS TO BE PREFINISHED. COLOR TO BE SELECTED BY ARCH.
 - PROVIDE SILICONE SEALANTS AT ALL MASONRY CONTROL JOINTS AND WINDOWS/DOORS IN MASONRY.
 - PROVIDE URETHANE SEALANTS AT PANEL CONDITIONS, INCLUDING WINDOW/DOORS PERIMETERS (IF ANTICIPATED TO BE PAINTED, OTHERWISE SILICONE IS TO BE USED).
 - PROVIDE PREFABRICATED FLASHING COMPONENTS AT DRYER/EXHAUST VENTS.
 - PROVIDE FLASHING AT HORIZONTAL TRANSITIONS BETWEEN WALL FINISHES.
 - REFERENCE CIVIL/LANDSCAPING DRAWINGS FOR ENTRY/PATIO CONNECTIONS AT GRADE.
 - ALL GROUND LEVEL UNITS AT POOL COURTYARD SHALL HAVE RAILINGS 48" MIN. FROM PATIO F.F.E. OR LOWEST HORIZONTAL RAILING, WHICHEVER IS HIGHER. WINDOWS SHALL HAVE WINDOW LIMITERS PER 2013 NCENR - 15 NCAC 18A2528.
 - REFERENCE MATERIAL SELECTION ELEVATIONS FOR ALL MATERIAL, COLOR, AND MASONRY CALLOUTS.
 - --- INDICATES LOCATION OF RAIN LEADERS. REF. ROOF PLANS.
 - 42" HIGH ALUMINUM RAILINGS TYP. AT ALL 2ND - 4TH FLOOR BALCONIES.
 - UNIT BALCONY DOORS TO MATCH VINYL WINDOW COLOR SELECTION, USE OF HIGH TEMPERATURE PAINT, TYP.
 - SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.



A4.H1



HOUSING STUDIO

333 West Trade Street, Suite 300
Charlotte, NC 28202
T: 704.333.7862 F: 980.237.3862

CHILDRESS KLEIN -
BARCLAY PHASE A
VOLUME 1: CIVIL - LANDSCAPE -
ARCHITECTURE - INTERIORS
WILMINGTON, NC

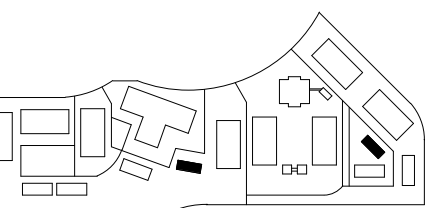


NOT FOR
CONSTRUCTION

PROJECT NUMBER: 2006
ISSUE DATE: SEPTEMBER 10TH, 2020
ISSUED FOR: 30% SET

REVISIONS

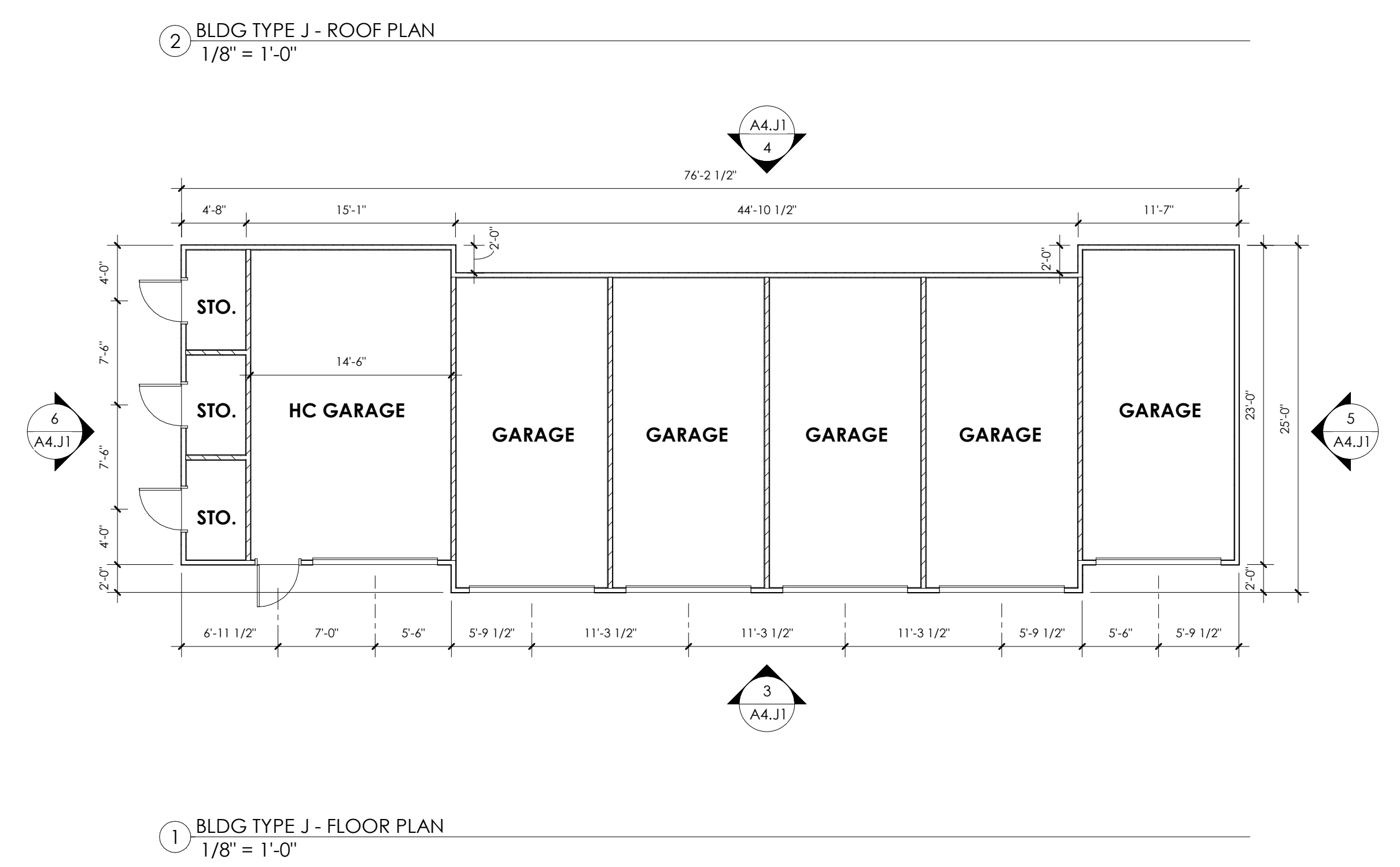
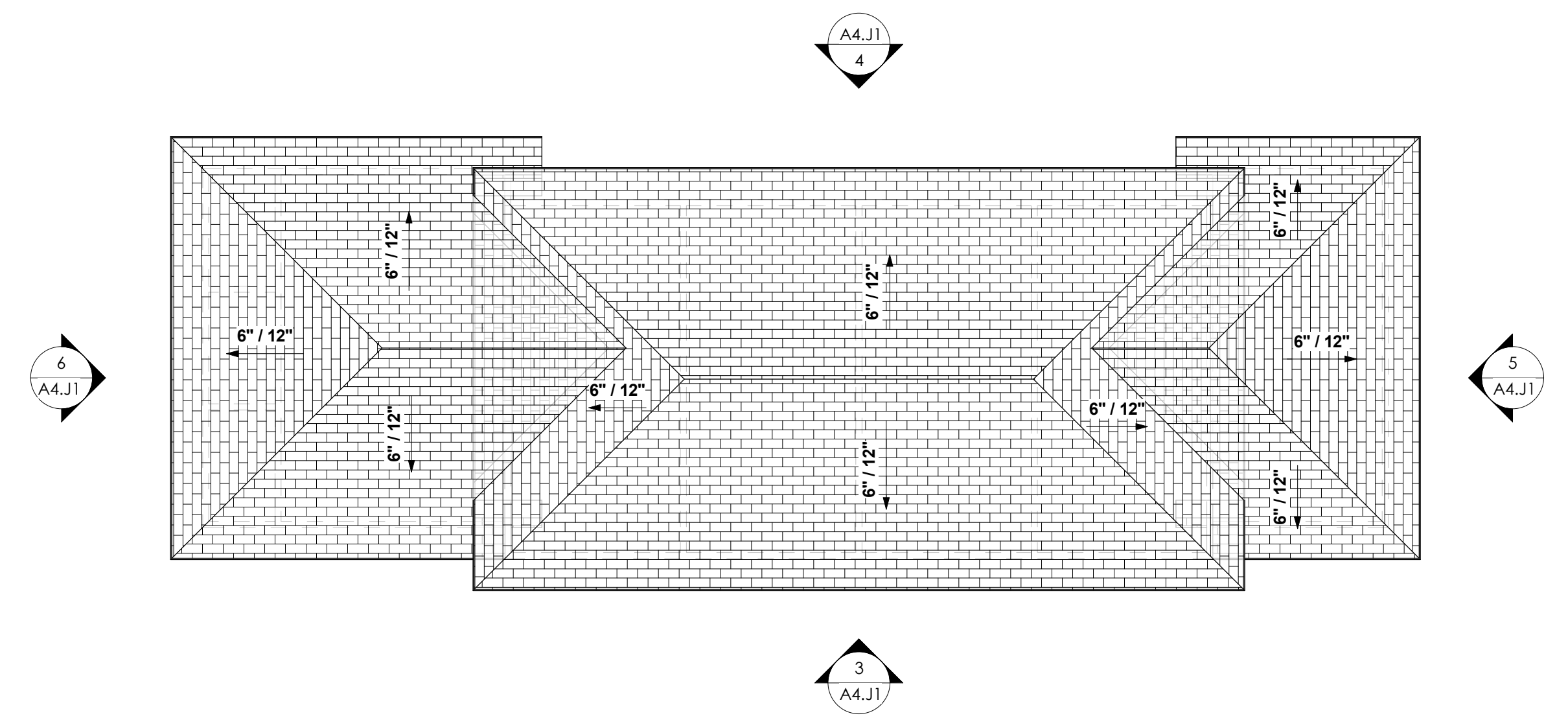
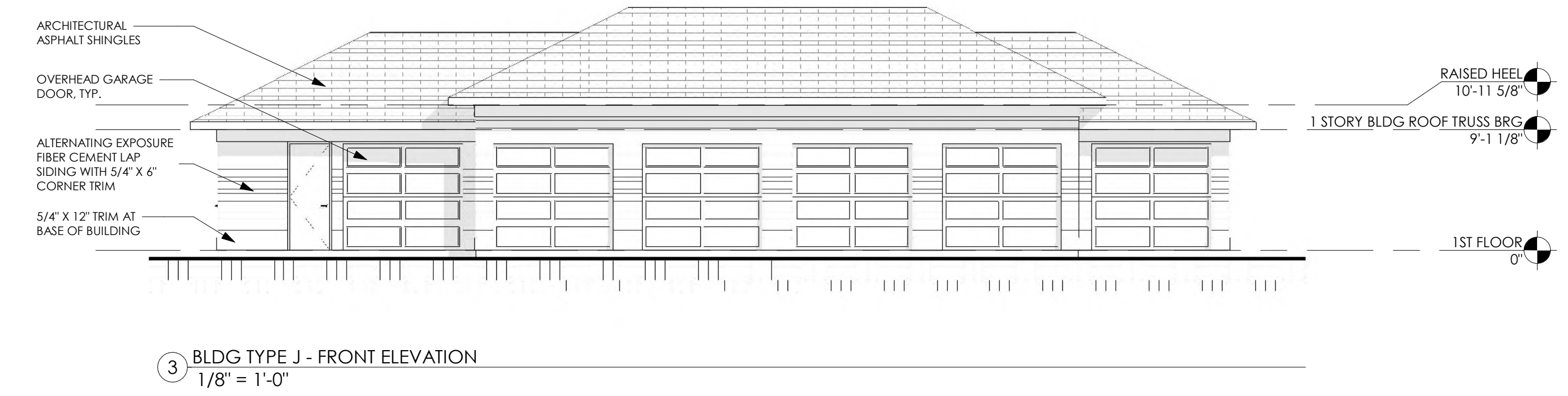
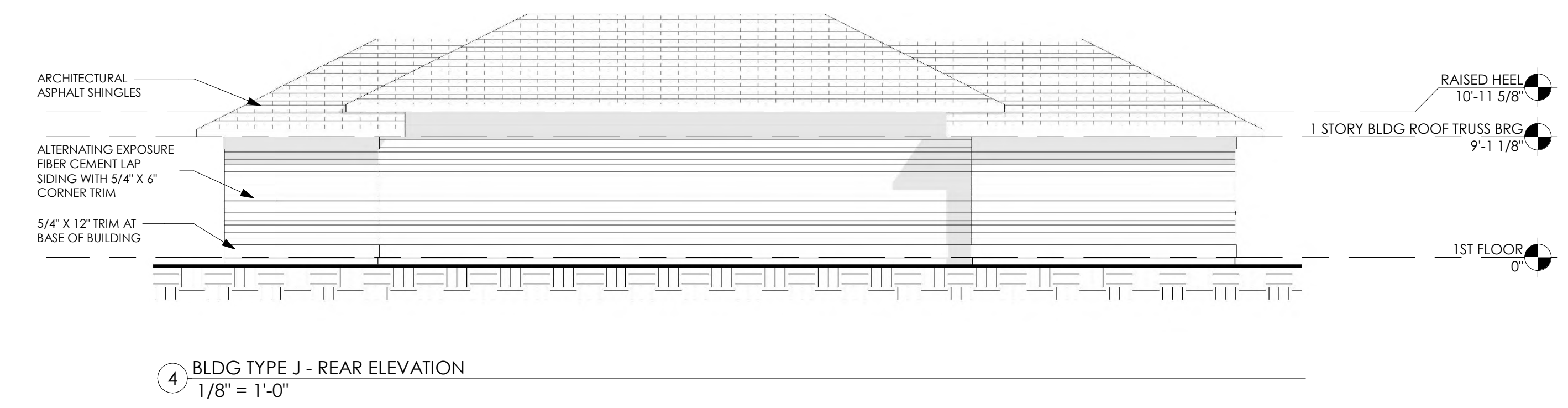
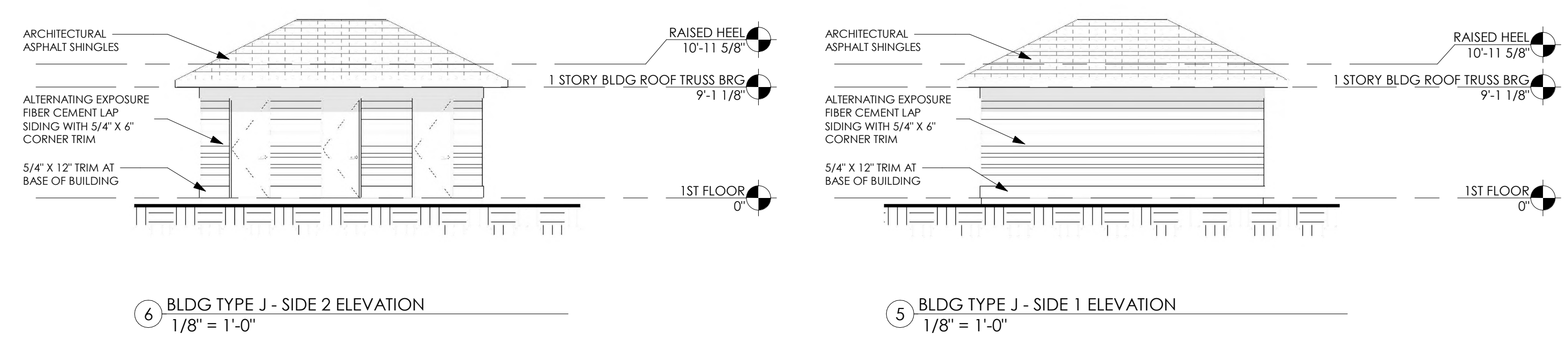
KEY PLAN

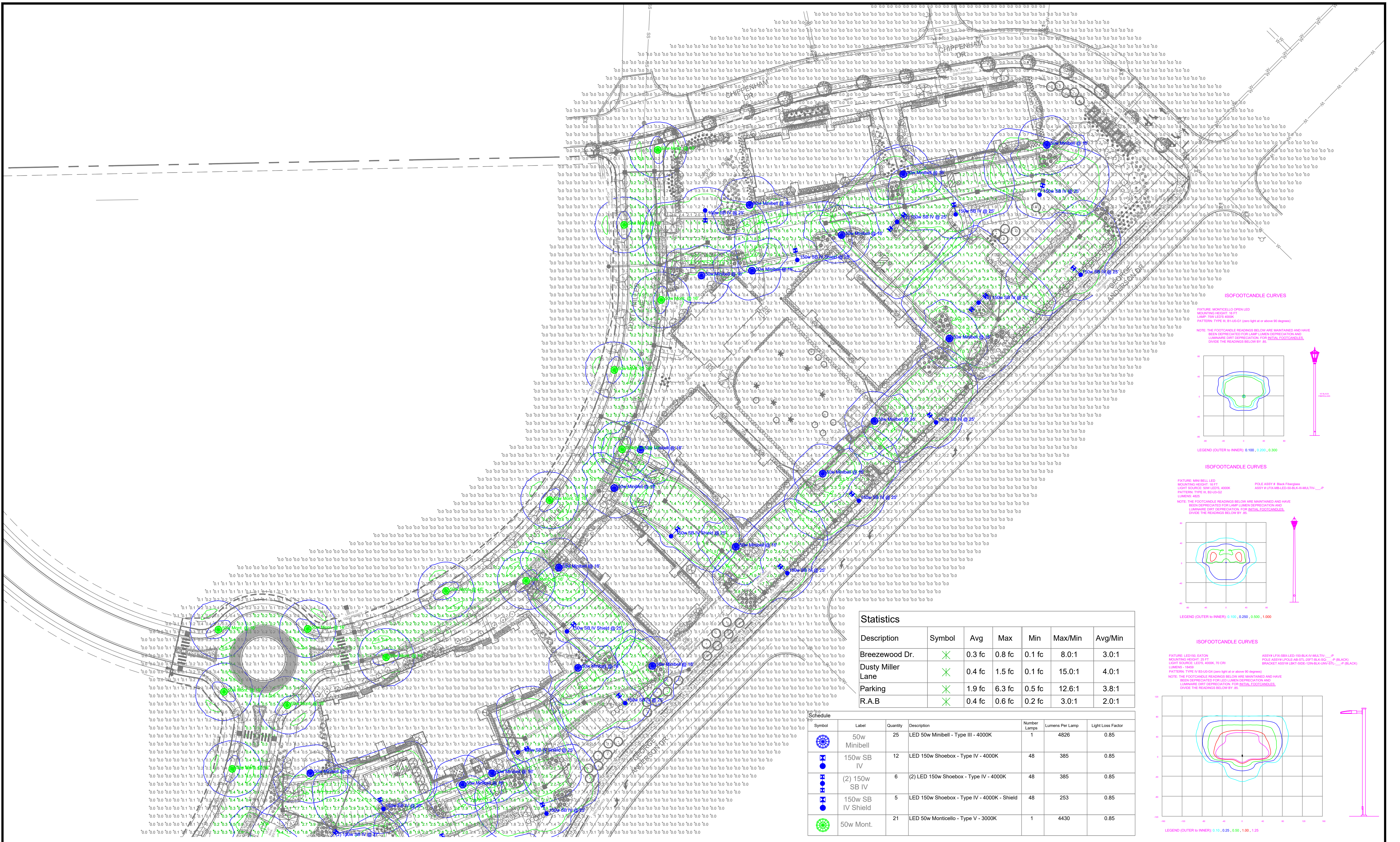


BLDG TYPE J
(GARAGE)

A4.J1

- GENERAL NOTES - BUILDING ELEVATIONS**
- EXTERIOR MATERIALS, DETAILING, AND COLORS TO WRAP AT ALL EXTERIOR CORNERS AND TERMINATE AT THE INSIDE CORNER, U.N.O.
 - CONTROL JOINTS SHOULD OCCUR AT INSIDE CORNERS AS NEEDED TO MEET BRICK INDUSTRY ASSOCIATION STANDARDS. EXTEND UP ENTIRE MASONRY VENEER FACE, U.N.O.
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 - UNIT BALCONY DOORS TO MATCH VINYL WINDOW COLOR SELECTION, USE OF HIGH TEMPERATURE PAINT, TYP.
 - SEE WINDOW DETAILS FOR DIFFERENTIAL SETTLEMENT NOTES.

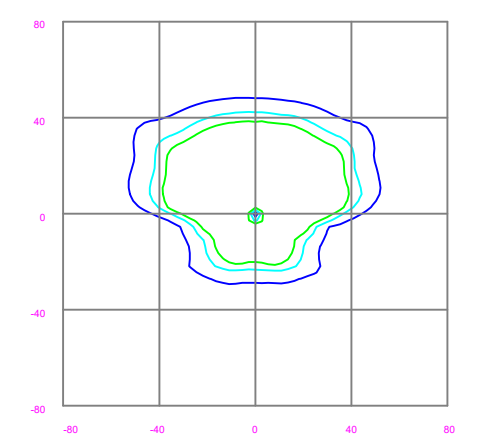




ISOFOOTCANDLE CURVES

FIGURE: MONTICELLO OPEN LED
MOUNTING HEIGHT: 16 FT
LIGHT SOURCE: 50W LEDS-4000K
PATTERN: TYPE III-BLACK (200 right or above 90 degrees)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE LIGHT DEPRECIATION FOR INITIAL FOOTCANDLES. DIVIDE THE READINGS BELOW BY .85.

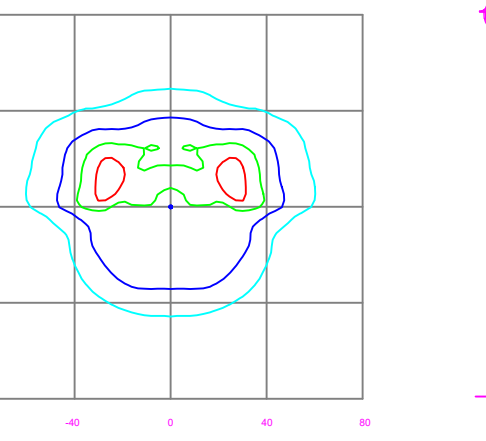


LEGEND (OUTER to INNER): 0.100, 0.200, 0.300

ISOFOOTCANDLE CURVES

FIGURE: MINI BELL
MOUNTING HEIGHT: 16 FT
LIGHT SOURCE: 50W LEDS-4000K
PATTERN: TYPE III-BLACK (200 right or above 90 degrees)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE LIGHT DEPRECIATION FOR INITIAL FOOTCANDLES. DIVIDE THE READINGS BELOW BY .85.

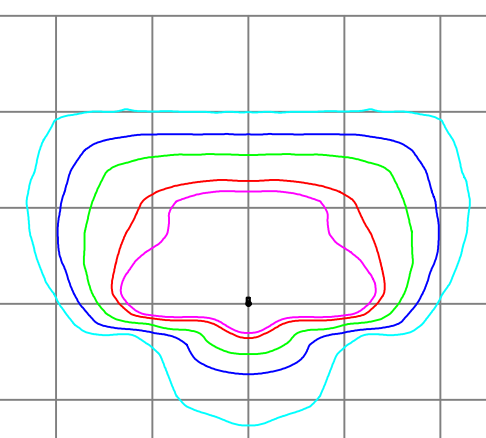


LEGEND (OUTER to INNER): 0.100, 0.200, 0.500, 1.000

ISOFOOTCANDLE CURVES

FIGURE: LED50: EATON
MOUNTING HEIGHT: 16 FT
LIGHT SOURCE: LEDS 4000K TO CRI
LUMENS: 1440

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE LIGHT DEPRECIATION FOR INITIAL FOOTCANDLES. DIVIDE THE READINGS BELOW BY .85.



LEGEND (OUTER to INNER): 0.10, 0.25, 0.50, 1.00, 1.25

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Brezewood Dr.	✕	0.3 fc	0.8 fc	0.1 fc	8.0:1	3.0:1
Dusty Miller Lane	✕	0.4 fc	1.5 fc	0.1 fc	15.0:1	4.0:1
Parking	✕	1.9 fc	6.3 fc	0.5 fc	12.6:1	3.8:1
R.A.B	✕	0.4 fc	0.6 fc	0.2 fc	3.0:1	2.0:1

Schedule						
Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
⊙	50w Minibell	25	LED 50w Minibell - Type III - 4000K	1	4826	0.85
⊙	150w SB IV	12	LED 150w Shoebox - Type IV - 4000K	48	385	0.85
⊙	(2) 150w SB IV	6	(2) LED 150w Shoebox - Type IV - 4000K	48	385	0.85
⊙	150w SB IV Shield	5	LED 150w Shoebox - Type IV - 4000K - Shield	48	253	0.85
⊙	50w Mont.	21	LED 50w Monticello - Type V - 3000K	1	4430	0.85

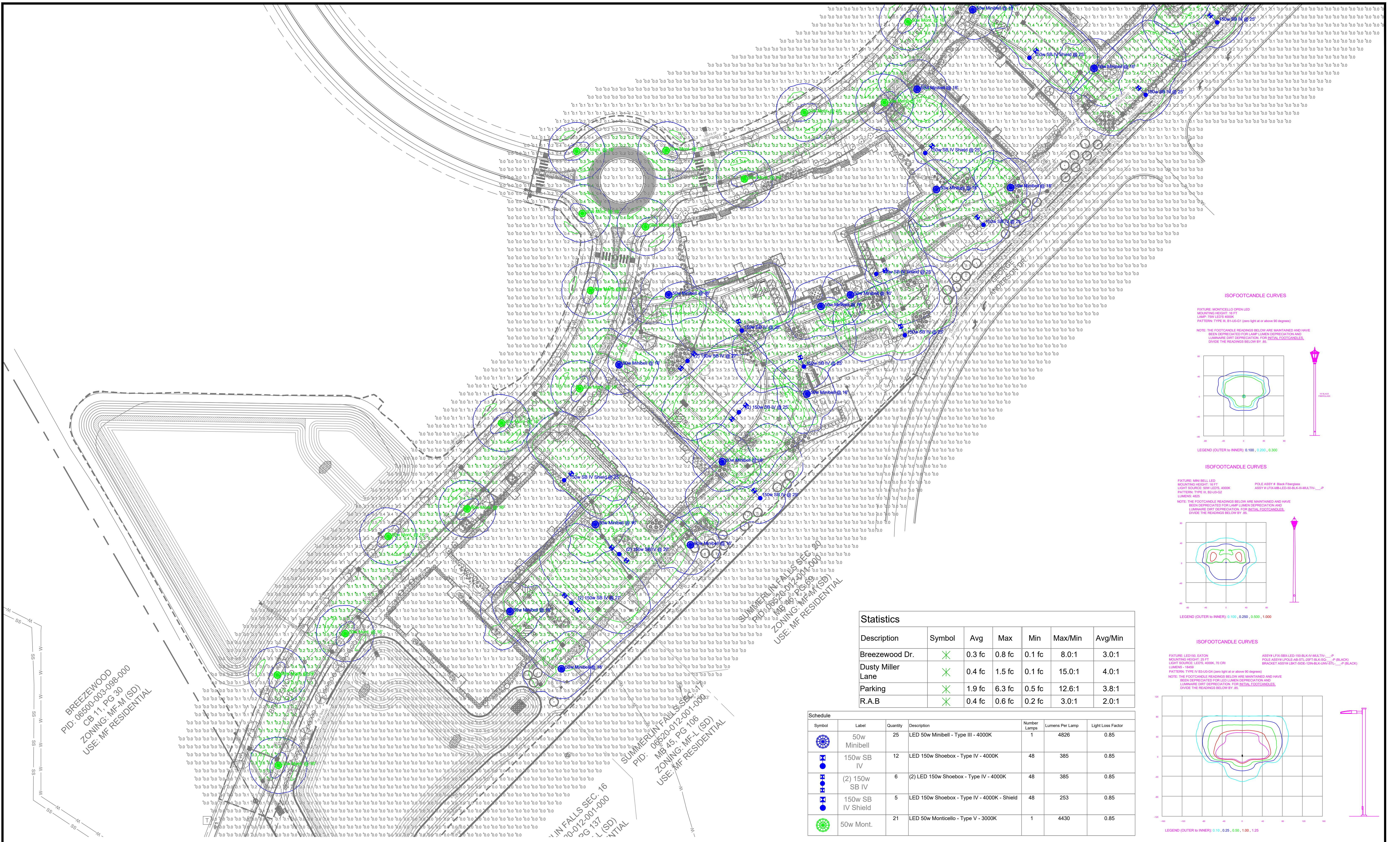
LIGHTING DESIGN TOLERANCE
The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval _____ Date _____



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BARCLAY PHASE A	
WILMINGTON, NC	
SITE LIGHTING PLAN	
Designed by	DEP LIGHTING SOLUTIONS
Reviewed by	N. Johnson Scale 1"=50'
Date	03/19/2021 Size "Arch D"
Description	LED 50W Minibell, 75w Open Mitchell, & 150w Shoebox
Drawing No.	21-0101A Sht. 1 OF 2



LIGHTING DESIGN TOLERANCE
 The calculated footcandle light levels in this lighting design are predicted values and are based on specific information that has been supplied to Duke Energy Progress. Any inaccuracies in the supplied information, differences in luminaire installation, lighted area geometry including elevation differences, reflective properties of surrounding surfaces, obstructions (foliage or otherwise) in the lighted area, or lighting from sources other than listed in this design may produce different results from the predicted values. Normal tolerances of voltage, lamp output, and ballast and luminaire manufacture will also affect results.

Customer approval _____ Date _____



Statistics

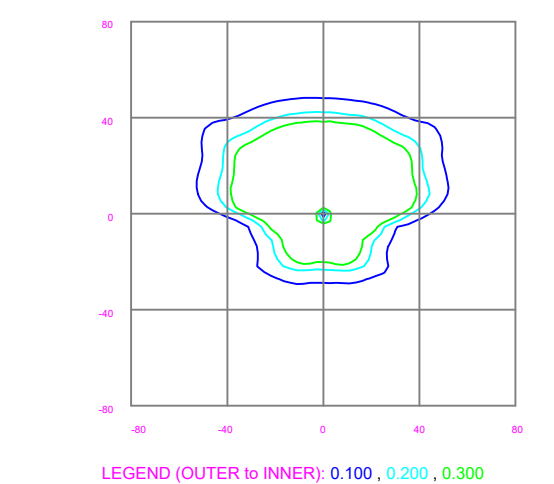
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Breezewood Dr.	✕	0.3 fc	0.8 fc	0.1 fc	8.0:1	3.0:1
Dusty Miller Lane	✕	0.4 fc	1.5 fc	0.1 fc	15.0:1	4.0:1
Parking	✕	1.9 fc	6.3 fc	0.5 fc	12.6:1	3.8:1
R.A.B	✕	0.4 fc	0.6 fc	0.2 fc	3.0:1	2.0:1

Symbol	Label	Quantity	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor
🌀	50w Minibell	25	LED 50w Minibell - Type III - 4000K	1	4826	0.85
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🔵	(2) 150w SB IV	6	(2) LED 150w Shoebox - Type IV - 4000K	48	385	0.85
🔵	150w SB IV Shield	5	LED 150w Shoebox - Type IV - 4000K - Shield	48	253	0.85
🟢	50w Mont.	21	LED 50w Monticello - Type V - 3000K	1	4430	0.85

ISOFOOTCANDLE CURVES

FIGURE: MONTICELLO OPEN LED
 MOUNTING HEIGHT: 16 FT
 LIGHT SOURCE: 50W LEDS 4000K
 LAMP: TUV LEDS 4000K
 PATTERN: TYPE III, 84-50-02 (zero light at or above 90 degrees)

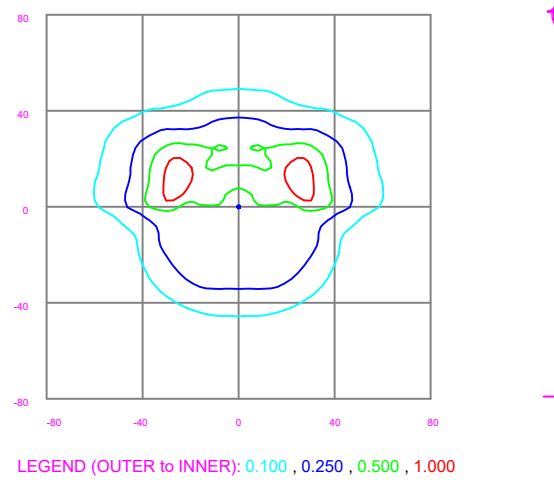
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE dirt DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



ISOFOOTCANDLE CURVES

FIGURE: MINI BELLED
 MOUNTING HEIGHT: 16 FT
 LIGHT SOURCE: 50W LEDS 4000K
 LAMP: TUV LEDS 4000K
 PATTERN: TYPE III, 84-50-02 (zero light at or above 90 degrees)

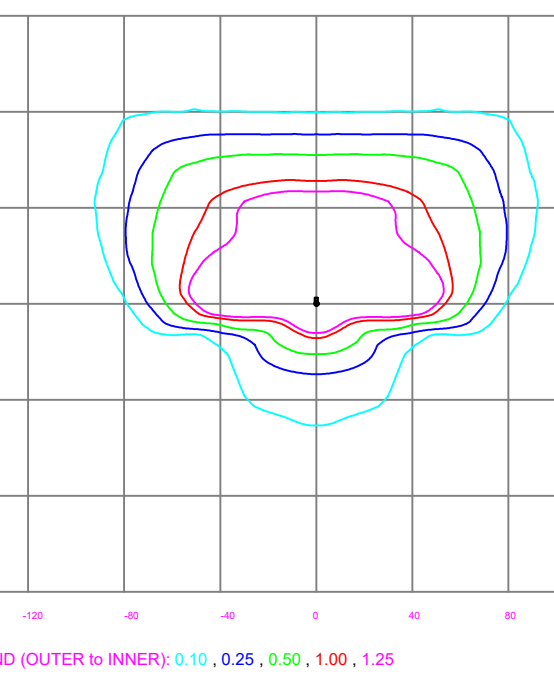
NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE dirt DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



ISOFOOTCANDLE CURVES

FIGURE: LED50: EATON
 MOUNTING HEIGHT: 16 FT
 LIGHT SOURCE: LEDS 4000K TO CRI
 LUMENS: 4430
 PATTERN: TYPE IV, 84-50-04 (zero light at or above 90 degrees)

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE dirt DEPRECIATION. FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



BARCLAY PHASE A
 WILMINGTON, NC
 SITE LIGHTING PLAN
 Designed by DEP LIGHTING SOLUTIONS
 Reviewed by N. Johnson Scale 1"=50'
 Date 03/19/2021 Size "Arch D"
 Description LED 50W Minibell, 75w Open Mitchell, & 150w Shoebox
 Drawing No. 21-0101A Sht. 2 OF 2

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