

North Carolina 811
www.nc811.org

C-100

Plot Stamp: 7/12/2018 2:12:54 PM - Shane Finn
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-100 COVER SHEET.dwg, Tab: Layout1

1. ALL WORK TO BE ACCOMPLISHED IN STRICT ACCORDANCE WITH ALL LOCAL ORDINANCES, CITY AND STATE.
2. BASED ON THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP PLAN NUMBER 3710448800K, DATED 2/19/2014 THE HEREON DESCRIBED PROPERTY IS LOCATED IN ZONE "X".
3. WITHIN THE SUBJECT PROPERTY, THE INTENT IS TO HAVE A CLEAN, CLEAR SITE, FREE OF ALL EXISTING ITEMS NOTED TO BE REMOVED IN ORDER TO PERMIT THE CONSTRUCTION OF THE NEW PROJECT.
4. ALL ITEMS NOTED TO BE REMOVED SHALL BE DONE SO AS PART OF THE CONTRACT FOR GENERAL CONSTRUCTION.
5. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK, BOTH PUBLIC AND PRIVATE. CONTRACTOR IS FULLY RESPONSIBLE FOR ALL UNDERGROUND UTILITIES AND SHALL REPAIR ANY DAMAGE AS A RESULT OF THIS CONTRACT.
6. REMOVE ALL UTILITIES TO EXISTING STRUCTURES ON SITE WHETHER SHOWN OR NOT. CUT UP ALL UNDERGROUND LINES AT THE PROPERTY LINE UNLESS OTHERWISE NOTED. CONTACT ALL UTILITY COMPANIES PRIOR TO DISCONNECTION OR DEMOLITION.
7. CONTRACTOR SHALL REMOVE ALL EXISTING TREES, CONCRETE, ASPHALT AND OTHER EXISTING STRUCTURES INDICATED ON PLAN. CONTRACTOR SHALL DISPOSE OF ALL DEBRIS TO AN APPROVED (LEGAL) OFF-SITE LOCATION.
8. FOR ALL ITEMS TO BE REMOVED - REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, INCLUDE ALL UNDERGROUND ELEMENTS AS WELL, INCLUDING, BUT NOT NECESSARILY LIMITED TO: FOUNDATIONS, GRAVEL FILLS, TREE ROOTS, OLD PIPE, ETC.
9. BACKFILL ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS FOR FILL DETERMINED BY A SITE SOILS ENGINEER.
10. LIMITS OF REMOVAL SHOWN ON DEMOLITION PLAN ARE APPROXIMATE ONLY. ACTUAL QUANTITIES MAY VARY DUE TO CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION, REMOVAL AND RESTORATION WORK NECESSARY TO PERMIT CONSTRUCTION OF THE PROPOSED PROJECT.
11. PROTECT ADJACENT CURB, TREES, BUILDINGS, UTILITIES AND OTHER ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR PAYMENT OF ANY DAMAGED ITEM TO REMAIN.
12. SURVEYOR SHALL REPORT ANY ENCROACHMENTS OR DISCREPANCIES GENERATED ON THIS CLEARING PLAN IMMEDIATELY TO ENGINEER FOR DECISION.
13. SURVEYOR SHALL VERIFY CLOSURE AND ACCURACY OF CURVE DATA PRIOR TO COMMENCEMENT OF FIELD STAKING.
14. HATCHED AREA ON THIS PLAN INDICATES HEAVILY WOODED AREAS TO BE REMOVED AND DEMOLITION ITEMS. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE ANY SPECIMEN TREES NEAR CLEARING LIMITS.
15. CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE ADDITIONAL TREES WHEREVER POSSIBLE.
16. CLEARING LIMITS ON THE PLAN INDICATE THE EXTENT OF ALL MAJOR CLEARING REQUIRED, CONTRACTOR IS ALSO RESPONSIBLE FOR ANY INCIDENTAL CLEARING REQUIRED FOR MINOR DISCREPANCIES IN GRADE, UTILITY INSTALLATION, EROSION CONTROL MEASURES, ETC.
17. CONTRACTOR SHALL COORDINATE UTILITY REMOVAL AND RELOCATIONS WITH ALL UTILITY COMPANIES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION TO AND FROM THE ADJOINING PROPERTIES AND SHALL INSTALL TRAFFIC CONTROL DEVICES AND SIGNED AS NECESSARY IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
19. THE CONTRACTOR SHALL COORDINATE WITH THE SITE CONSTRUCTION MANAGER FOR THE REMOVAL AND/OR RELOCATION OF EXISTING TREES.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION TO A CONDITION EQUAL TO OR BETTER THAN EXISTING AND SHALL BE RESPONSIBLE FOR PHOTO-DOCUMENTATION OF PRE-CONSTRUCTION CONDITIONS.
21. NO DEMOLITION PRIOR TO PRE CONSTRUCTION MEETING. DEMOLITION PRIOR TO PRE CONSTRUCTION MEETING AND GRADING PERMIT WILL BE SUBJECT TO IMMEDIATE CIVIL PENALTIES.
22. CONTRACTOR SHALL COORDINATE OBTAINING ALL NECESSARY DEMOLITION PERMITS FROM THE CITY OF CHARLOTTE AS NECESSARY.
23. CONTRACTOR SHALL COORDINATE WITH THE SITE GEOTECHNICAL ENGINEER FOR EARTH DISTURBING AND SITE PREPARATION RECOMMENDATIONS. DEVELOPER SHALL PROVIDE SITE GEOTECHNICAL ENGINEER AS NECESSARY.
24. CONTRACTOR TO ENSURE THAT EROSION CONTROL MEASURES ARE IN PLACE PRIOR TO ANY CONSTRUCTION.

1. PLAN APPROVAL AND COMPLETION OF PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO DEMOLITION ACTIVITIES.
2. PRIOR TO DEMOLITION ACTIVITY, THE CONTRACTOR SHALL OBTAIN PLAN APPROVAL AND COMPLETE A PRE-CONSTRUCTION MEETING.
3. ALL DEMOLISHED MATERIALS AND ITEMS SHALL BE COMPLETELY REMOVED AND PROPERLY DISPOSED OF OFFSITE. LOCATION TO BE DOCUMENTED AND REPORTED TO OWNER.
4. OWNER SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF DEMOLITION ACTIVITIES.
5. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB. IMMEDIATELY NOTIFY THE OWNER AND THE ENGINEER.
6. ALL UTILITIES SHALL BE DISCONNECTED AND CAPPED PRIOR TO DEMOLITION ACTIVITIES.
7. ANY ADJACENT INFRASTRUCTURE OR VEHICLES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT NO COST.
8. SITE SHALL BE CLEARED OF ALL DEBRIS, DUST, AND MUD UPON COMPLETION OF SITE WORK ACTIVITIES, AND SITE SHALL BE RESTORED TO ORIGINAL CONDITION UPON COMPLETION OF WORK.
9. CONTRACTOR SHALL CONTACT PRIVATE UTILITY LOCATE FIRM PRIOR TO CONSTRUCTION AND NOTIFY 811.
10. TREE REMOVAL TO BE PERFORMED ONLY AS NOTED.
11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ABANDONMENT AND REMOVAL OF ALL ONSITE AND OFFSITE UTILITIES, AS INDICATED ON THE PLANS INCLUDING BUT NOT LIMITED TO ELECTRIC AND GAS, IF NECESSARY.
12. ALL LAND DISTURBANCE TO BE STABILIZED WITH VEGETATION IMMEDIATELY UPON COMPLETION OF DEMOLITION.
13. ALL TREES TO REMAIN AND HAVE PROPER PROTECTION UNLESS APPROVED PLANS INDICATES OTHERWISE.
14. ALL DEMOLITION DEBRIS TO BE HAULED OFF SITE.
15. DUMPSTERS AND/OR TEMPORARY SANITARY FACILITIES SHALL NOT BE LOCATED IN STREET OR TREE PROTECTION AREA OR RIGHT OF WAY.

1. ALL "STD." NUMBERS REFER TO THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL. ON-SITE BUREAU PITS REQUIRE AN ON-SITE DEMOLITION LANDFILL PERMIT FROM THE ZONING ADMINISTRATOR.
2. ANY GRADING BEYOND THE DENUMED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
3. GRADING MORE THAN ONE ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
4. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
5. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
6. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY ENGINEERING DEPARTMENT.
7. SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. FILL SLOPES GREATER THAN 10' REQUIRE ADEQUATE TERRACING [CLDSM #30.16]
8. A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
9. DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
10. CONSTRUCTION TO BEGIN AUGUST 1, 2018 AND BE COMPLETED MARCH 1, 2019.

1. PRIOR TO LAND DISTURBING ACTIVITY, THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR.
2. THE CONTRACTOR SHALL OBSERVE THE PROJECT SCHEDULING SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN CAREFUL SEQUENCING AND PERFORMANCE TO ENSURE THAT LAND STRIPPED OF ITS NATURAL COVER IS EXPOSED ONLY IN SMALL QUANTITIES.
3. THE OWNER AGREES TO PROVIDE AND MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
4. NO STAGING AREAS, MATERIAL STORAGE, CONCRETE WASH OUT AREAS, OR DEBRIS REMOVAL AND BURIAL HOLES SHALL BE LOCATED ON SITE.
5. A COPY OF THE APPROVED LAND DISTURBANCE PLAN AND PERMIT SHALL BE PRESENT ON THE SITE AT ALL TIMES.
6. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, LIMITS OF LAND DISTURBANCE SHALL CLEARLY AND ACCURATELY BE DEMARCATED WITH STAKES, RIBBONS OR APPROPRIATE MEANS, AND SHALL BE DEMARCATED FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE LIMITS INDICATED ON THE APPROVED PLANS.
7. PRIOR TO ANY CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE OR ONTO ANY PUBLIC ROADWAY.
8. THE FOLLOWING INITIAL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.
 - A) THE CONSTRUCTION ENTRANCE SHALL BE PLACED AS SHOWN ON THE PLANS.
 - B) IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCE, ALL PERIMETER SEDIMENT CONTROL AND STORMWATER MANAGEMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE EROSION CONTROL PLANS.
9. WITHIN SEVEN (7) DAYS AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN PROFESSIONAL. NO OTHER CONSTRUCTION ACTIVITIES SHALL OCCUR UNTIL THE PROJECT PROFESSIONAL APPROVES THE INSTALLATION OF SAID EROSION CONTROL MEASURES. IF UNDESIRABLE CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST CONSTRUCT ANY ADDITIONAL EROSION CONTROL DEVICES DEEMED NECESSARY BY THE PROJECT PROFESSIONAL DURING THE SITE INSPECTION.
10. AFTER APPROVAL OF INITIAL EROSION CONTROL INSTALLATION, THE CONTRACTOR MAY PROCEED WITH CLEARING AND GRUBBING ACTIVITIES. AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT SEDIMENT PONDS AS SHOWN ON PLANS.
11. NO BURN OR BURY PITS SHALL BE PERMITTED ON THE CONSTRUCTION SITE WITHOUT WRITTEN PERMISSION BY THE OWNER AND/OR THE ENGINEER OF RECORD.
12. ALL SILT FENCE MUST MEET THE REQUIREMENTS OF THE CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL AND SECTION 171 TEMPORARY SILT FENCE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF NORTH CAROLINA, STANDARD SPECIFICATIONS, 1983 EDITION.

1. BEGIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE CITY OF CHARLOTTE ENGINEERING DEPARTMENT.
2. SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH EROSION CONTROL INSPECTOR OF THE CITY ENGINEERING DEPARTMENT TO DISCUSS EROSION CONTROL MEASURES. THE EROSION CONTROL MEASURES MUST BE SUBMITTED 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS A VIOLATION OF CHAPTER 17 OF THE CITY CODE AND IS SUBJECT TO FINE.
3. INSTALL SILT FENCE, INLET PROTECTION, TEMPORARY SKIMMER BASINS, DIVERSION DITCHES, TREE PROTECTION, AND OTHER MEASURES AS SHOWN ON PLANS, CLEARING ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. CALL FOR ON-SITE INSPECTION BY INSPECTOR. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
5. THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
6. FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
7. STABILIZE SITE AS AREAS ARE BROUGHT TO FINISHED GRADE.
8. COORDINATE WITH EROSION CONTROL INSPECTOR PRIOR TO REMOVAL OF EROSION CONTROL MEASURE.
9. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N. C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U. S. DEPT. OF AGRICULTURE, CITY OF CHARLOTTE EROSION CONTROL ORDINANCE, AND THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.

1. HOLD A PRE-CONSTRUCTION MEETING AND OBTAIN GRADING PERMIT.
2. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AND STORM PIPES UNDER ENTRANCES AS SHOWN ON PLANS. INSTALL TIRE WASH IF DIRECTED BY NCDOT OR EROSION CONTROL INSPECTOR.
3. INSTALL TEMPORARY SILT FENCE, AND TREE PROTECTION AT LOCATION SHOWN ON THE PLANS.
4. INSTALL TEMPORARY SKIMMER BASINS, BAFFLES, AND OUTLET STRUCTURES AS SHOWN ON THE PLANS. OUTLET STRUCTURES FOR BASINS 1-3 TO BE TEMPORARY STRUCTURES AS PER THE PLANS. CONTRACTOR TO CORE OPENINGS STABILIZATION OF BASINS TO BE ESTABLISHED IMMEDIATELY AFTER INSTALLATION.
5. BASIN 4 WILL BE PERMANENT OUTLET CONTROL STRUCTURE WITH TEMPORARY SKIMMER AT APPROX. 1" ABOVE NORMAL POOL ELEVATION. ONCE SITE IS STABILIZED AND APPROVAL FROM INSPECTOR IS OBTAINED, ORIFICE FOR SKIMMER TO BE PLUGGED.
6. INSTALL DIVERSION DITCHES AS SEEN ON PLANS, ALONG WITH DITCHES, INSTALL ANY OTHER REMAINING EROSION CONTROL MEASURES.
7. REMOVE TREES, CLEAR AND GRUB SITE PER PLANS UPON INSPECTION APPROVAL. TEMPORARY SEED PER STABILIZATION REQUIREMENTS.
8. CLEAN SKIMMER BASINS WHEN ONE-HALF FULL.
9. ESTABLISH PERMANENT GROUND COVER WITHIN 14 CALENDAR DAYS. ALL SLOPES MUST BE STABILIZED WITHIN 7 DAYS.
10. MAINTAIN SOIL AND EROSION MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
11. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER, CONTRACTOR, COUNTY OR NCDENR.
12. INSPECT ALL EROSION CONTROL DEVICES AFTER EVERY RAINFALL EVENT AND AT LEAST ONCE PER WEEK. REPAIR AND CLEAN OUT AS REQUIRED.

1. MAINTAIN PERIMETER SILT FENCE AND TREE PROTECTION FENCE. REPLACE AND/OR REPAIR AS NECESSARY.
2. MAINTAIN CULVERT, ROCK PIPE INLET PROTECTION AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE. REPLACE AND/OR REPAIR AS NECESSARY.
3. BRING SITE TO GRADE FOR ROADWAYS, SIDEWALKS, AND BUILDING PADS. FOR BUILDING PADS WITH TEMPORARY SKIMMER BASINS, BASINS ARE TO REMAIN UNTIL STORM SEWER IS 95% CONSTRUCTED AND INLET PROTECTION IS INSTALLED.
4. INSTALL ANY UNDERGROUND CABLES OR TRANSFORMERS.
5. INSTALL IMPROVEMENTS TO EXISTING POND, DRAINING POND AS REQUIRED TO INSTALL ROCK FOREBAY, OUTLET STRUCTURE, AND NEW EMBANKMENT.
6. INSTALL CURB & GUTTER, SIDEWALKS AND STORM DRAIN SYSTEM. AS STORM STRUCTURES ARE INSTALLED; INSTALL COMPOST SOCKS.
7. ONCE STORM DRAIN SYSTEM AND INLET PROTECTION IS IN PLACE, TEMPORARY SKIMMER BASINS MAY BE REMOVED, ONCE APPROVED BY COORDINATOR, AS REQUIRED FOR FINAL GRADING.
8. WHEN SITE IS READY FOR PAVING; REMOVE GRAVEL CONSTRUCTION ENTRANCE, AND BRING AREA TO GRADE FOR PAVEN.
9. INSPECT, CLEAN OUT AND/OR REPAIR ROCK PIPE INLET PROTECTION.
10. ONCE AN AREA OF CONSTRUCTION HAS BEEN BROUGHT UP TO GRADE APPLY PERMANENT SEED PER PLAN.
11. ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES MAY BE REQUIRED IF DEEMED NECESSARY BY THE OWNER, CONTRACTOR, COUNTY OR NCDENR.
12. INSPECT ALL EROSION CONTROL DEVICES AFTER EVERY RAINFALL EVENT AND AT LEAST ONCE PER WEEK. REPAIR AND CLEAN OUT AS REQUIRED.
13. ONCE SITE IS STABILIZED REMOVE REMAINING SEDIMENT AND EROSION CONTROL MEASURES.
14. AREAS WHERE FILL SLOPE IS 10' OR HIGHER (OR HAS SEEN ON PLANS) HYDRO SEEDING AND MATTING REQUIRED TO BE PLACED IMMEDIATELY AFTER GRADING IS COMPLETE. EC-S-1 SINGLE NET STRAW IS TO BE USED IN THESE AREAS. ALL FILL SLOPES WILL FOLLOW CONSTRUCTION REQUIREMENTS DETAILED IN THE NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (PAGE 6.02.2).

1. ALL SITE DIMENSIONS SHOWN ARE TO THE TOP BACK OF CURB, UNLESS OTHERWISE NOTED. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND STARTING CONSTRUCTION.
2. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
3. SITE IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF CHARLOTTE STANDARD DETAILS AND SPECIFICATIONS AND NCDOT STANDARD DETAILS AND SPECIFICATIONS.
4. ASPHALT PAVING, CONCRETE SIDEWALK AND CONCRETE CURBING SECTIONS SHALL BE CONSTRUCTED PER THE DETAILS.
5. THE CONTRACTOR SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATIONS.
6. ALL WORK ON STATE, COUNTY, OR CITY RIGHT-OF-WAY INCLUDING DRIVEWAY APPROX, WATER AND SEWER TAPS OR ANY OTHER WORK REQUIRES AN ENCROACHMENT PERMIT FROM THE APPROPRIATE AGENCY.
7. ANY MATERIAL DEMOLISHED AS INDICATED ON THIS PLAN IS BE HAULED OFF-SITE TO AN APPROVED LANDFILL.
8. DURING CONSTRUCTION THE PROJECT SITE SHALL COMPLY WITH FIRE DEPARTMENT GUIDELINES FOR EMERGENCY VEHICLE ACCESS.
9. SIGHT DISTANCE INFORMATION NOTE: AREAS WITHIN THE SIGHT TRIANGLE ARE TO BE CLEAR OF LANDSCAPING, SIGNS OR OTHER VISIBILITY OBSTRUCTIONS PER JURISDICTIONAL REQUIREMENTS.
10. THE CONTRACTOR IS RESPONSIBLE FOR ANY CURB & GUTTER AND PAVEMENT DAMAGE DURING CONSTRUCTION. OWNER WILL NOT PAY FOR REPAIRS DUE TO FAILURE TO PROTECT AND OBSERVE EXISTING CONCRETE CURB & GUTTER AND PAVEMENT.
11. A MINIMUM STREET WIDTH OF 20 FEET SHALL BE MAINTAINED AT ALL TIMES BOTH DURING AND AFTER CONSTRUCTION.
12. A 36 INCH CLEAR SPACE SHALL BE MAINTAINED AROUND ALL HYDRANTS AT ALL TIMES BOTH DURING AND AFTER CONSTRUCTION. WATER SHALL BE ON ALL HYDRANTS PRIOR TO ANY BUILDING CONSTRUCTION.

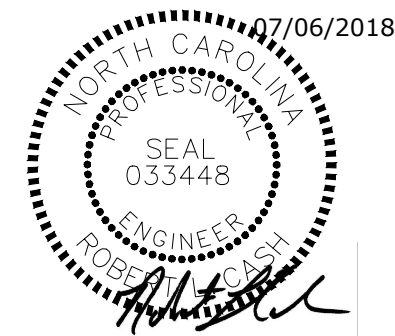
1. TOPOGRAPHIC SURVEY & BOUNDARY VERIFICATION BY : LAWRENCE ASSOCIATES ON AUGUST 17, 2017.
2. LIMITS OF CLEARING SHOWN ON GRADING PLAN AS LIMITS OF DISTURBANCE ARE BASED UPON THE APPROXIMATE CUT AND FILL SLOPE LIMITS, OR OTHER GRADING REQUIREMENTS.
3. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THIS DEVELOPMENT AS INDICATED ON SHEETS (C-300 THRU C-301)
4. ALL PROPOSED CONTOURS AND SPOT ELEVATIONS REPRESENT THE TOP BACK OF CURB ELEVATION UNLESS OTHERWISE NOTED.
5. EXISTING AND PROPOSED CONTOURS ARE AT ONE FOOT INTERVALS.
6. NO SOIL DISTURBANCE OR COMPACTION, CONSTRUCTION MATERIALS, TRAFFIC, TRENCHING, OR OTHER LAND DISTURBING ACTIVITY SHALL BE PERMITTED BEYOND LIMITS OF DISTURBANCE.
7. CONTRACTOR TO COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR AND NCDOT.
8. OWNER SHALL EMPLOY THE SERVICES OF AN INDEPENDENT TESTING LABORATORY (ITL) TO DETERMINE THE SUITABILITY OF THE SOILS FOR INTENDED USE. CONTRACTOR SHALL SUBMIT THESE SERVICES. UNLESS OTHERWISE NOTED, SHALL BE UNDERTAK AS DIRECTED BY THE ITL, REPLACED, AND COMPACTED WITH APPROVED FILL MATERIAL.
9. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, WRITTEN PERMISSION MUST BE OBTAINED FROM AFFECTED PROPERTY OWNERS.
10. ALL CUT SLOPES ARE TO BE 2:1 MAXIMUM GRADE, UNLESS OTHERWISE NOTED IN PLANS AND DETAILS.
11. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON CURB.
12. THE CONTRACTOR SHALL IMMEDIATELY REPORT TO OWNER ANY DISCREPANCIES FOUND BETWEEN THE FIELD CONDITIONS, ALL CONSTRUCTION DOCUMENTS AND SHALL WAIT FOR INSTRUCTION PRIOR TO PROCEEDING.
13. THE CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY TO TRANSITION BACK TO EXISTING GRADE, INCLUDING ANY GRADING WORK PERFORMED IN THE RIGHT-OF-WAY.
14. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE SO THAT RUNOFF WILL DRAIN BY A WEIR AT CROSS-SECTION OF 2.0% AN ALL CURB RAMPS AND SIDEWALKS WITHIN THE RIGHT OF WAY ARE TO MEET PROWAG STANDARDS.
15. THERE SHALL BE NO STANDING WATER BEFORE PERMANENT SEEDING OF PARCELS.
16. ALL BUILDING PADS ARE SLAB ON GRADE UNLESS OTHERWISE NOTED.
17. SEE CHARLOTTE WATER UTILITY PLANS FOR EASEMENT LOCATIONS.
18. DURING CONSTRUCTION THE PROJECT SITE SHALL COMPLY WITH FIRE DEPARTMENT GUIDELINES FOR EMERGENCY VEHICLE ACCESS.

ADA ACCESSIBLE ROUTE INSTRUCTIONS TO CONTRACTOR

ALL CURB RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF 1990 AND REVISED ADA REGULATIONS IMPLEMENTING TITLE II AND TITLE III. ALL SIDEWALKS SHALL BE CONSTRUCTED WITH A WEIR AT CROSS-SECTION OF 2.0% AN ALL CURB RAMPS AND SIDEWALKS WITHIN THE RIGHT OF WAY ARE TO MEET PROWAG STANDARDS.

1. COORDINATE ALL CURB AND STREET GRADES IN INTERSECTION WITH INSPECTOR.
2. DEVELOPER WILL PROVIDE STREET SIGNS PER CDDSM# 50.05 (9" SIGNS ONLY)
3. SIGHT TRIANGLES SHOWN ARE THE MINIMUM REQUIRED.
4. IN ROLLING AND HILLY TERRAINS, SWEEPING OF THE STONE BASE AND/OR APPLICATION OF A TACK COAT MAY BE REQUIRED NEAR INTERSECTIONS. THESE REQUIREMENTS WILL BE ESTABLISHED BY THE INSPECTOR AND BASED ON FIELD CONDITIONS.
5. APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
6. IN ORDER TO ENSURE PROPER DRAINAGE, KEEP A MINIMUM OF 0.5% SLOPE ON THE CURB.
7. SUBSURFACE DRAINAGE FACILITIES MAY BE REQUIRED IN THE STREET RIGHT-OF-WAY IF DEEMED NECESSARY BY THE INSPECTOR.
8. CURB AND GUTTER SHOWN ON PLANS ALONG MAY BE ADJUSTED BASED UPON FIELD STAKING BY CITY ENGINEERING. ASSOCIATED STORM DRAINAGE MAY ALSO REQUIRE MODIFICATION BASED UPON FIELD CONDITIONS.
9. THE PURPOSE OF THE STORM DRAINAGE EASEMENT (SDE) IS TO PROVIDE STORM WATER CONVEYANCE. BUILDINGS ARE NOT PERMITTED IN THE EASEMENT AREA. ANY OTHER OBJECTS WITHIN IMPEDE STORM WATER FLOW OR SYSTEM MAINTENANCE ARE ALSO PROHIBITED.
10. HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING PLACED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
11. THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BACKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK AND OTHER ACCUMULATIONS.
12. ANY BUILDING WITHIN THE 100+1' STORMWATER ELEVATION LINE IS SUBJECT TO THE RESTRICTIONS OF THE CITY OF CHARLOTTE/MECKLENBURG COUNTY) SUBDIVISION ORDINANCE, SECTION 7.200.8.
13. ANY CONSTRUCTION OR USE WITHIN THE FUTURE CONDITIONS FLOOD FRINGE LINE IS SUBJECT TO THE RESTRICTIONS IMPOSED BY THE FLOODWAY REGULATIONS OF THE CITY OF CHARLOTTE AND MECKLENBURG COUNTY.
14. PROFESSIONAL ENGINEER SEALED SHOP DRAWINGS FOR RETAINING WALL MUST BE SUBMITTED TO CITY ENGINEER PRIOR TO CONSTRUCTION.
15. "AS-BUILT" DRAWINGS AND PLANS OF THE STORM DRAINAGE SYSTEM, INCLUDING DESIGNED DETENTION, MUST BE SUBMITTED PRIOR TO SUBDIVISION FINAL INSPECTION TO THE CITY/COUNTY ENGINEERING DEPARTMENT IN ACCORDANCE WITH THE CITY/COUNTY/SUBDIVISION ORDINANCE.
16. PRIOR TO COT, SURVEYOR SEALED AS-BUILT DRAWINGS OF ALL WATER QUALITY BMP'S AND DETENTION SYSTEMS MUST BE PROVIDED.
17. PRIOR TO PLAT RECORDATION, OFFSITE R/W AND/OR CONSTRUCTION EASEMENTS ARE REQUIRED TO BE OBTAINED ACCORDING TO THE GUIDELINES OF THE "OFFSITE R/W ACQUISITION PROCESS". THESE NEEDED R/W AND CONSTRUCTION LIMITS ARE CLEARLY SHOWN ON THE ROADWAY IMPROVEMENT PLAN.
18. PER SECTION 18-175(E) OF CITY CODE AND SECTION 10.0 OF THE CITY'S POST CONSTRUCTION CONTROLS ADMINISTRATIVE MANUAL, ALL REQUIRED NATURAL AREAS AND/OR POST CONSTRUCTION CONTROLS EASEMENTS (PCEES) MUST BE RECORDED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.
19. THE DEVELOPER SHALL CONTACT THE CHARLOTTE DEPARTMENT OF TRANSPORTATION (GUS JORDI, 704-336-7086) TO IDENTIFY ANY CONFLICTS WITH TRAFFIC SIGNALIZATION. EDITIONS 1-90 DAYS WILL BE REQUIRED TO COORDINATE RELOCATION. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELATED RELOCATION COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER.
20. DEVELOPER SHALL BE RESPONSIBLE FOR ALL RELATED RELOCATION COST AND/OR ANY REPAIR COST CAUSED BY THE CONTRACTOR/DEVELOPER.
21. CERTIFICATION AND STREET CUT PERMITS ARE REQUIRED FOR UTILITY CUTS ON CITY STREETS. ALLOW 7 DAYS PROCESSING FOR PERMIT. FOR INFORMATION CONTACT CHARLOTTE DEPARTMENT OF TRANSPORTATION (704-336-4025) OR VISIT [HTTP://WWW.CHARMEEK.ORG/DEPARTMENTS/TRANSPORTATION/STREET-MAINTENANCE/HOME.HTM](http://www.charmeek.org/departments/transportation/street-maintenance/home.htm)
22. NON-STANDARD ITEMS (IE: PAVES, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH THE CHARLOTTE DEPARTMENT OF TRANSPORTATION. THE CITY OF CHARLOTTE DEPARTMENT OF TRANSPORTATION BEFORE INSTALLATION. FOR CITY OF CHARLOTTE MAINTAINED STREETS, CONTACT CDDOT AT (704) 336-3888.
23. SIDEWALK WITHIN THE CITY'S R/W THAT REQUIRES REPLACEMENT AS PART OF THE DEVELOPMENT AND/OR STREET IMPROVEMENTS SHOULD BE PHASED IN SUCH A WAY AS TO MINIMIZE THE DURATION OF THE SIDEWALK CLOSURE TO THE EXTENT FEASIBLE. THE DEVELOPER SHOULD MAKE EVERY ATTEMPT TO HAVE SIDEWALK REPAIR AND REOPENED FOR PUBLIC USE WITHIN 30 DAYS OF REMOVAL.
24. ANY WORK WITHIN THE CITY'S R/W THAT REQUIRES CLOSURE OF THE SIDEWALK OR TRAFFIC APPROVAL OF THE CLOSURE AND HAVE SIDEWALK R/W USE PERMIT OR R/W LEASE DEPENDING UPON THE PROPOSED DURATION OF CLOSURE. THESE APPROVALS ARE IN ADDITION TO SITE APPROVALS AND SHOULD BE COORDINATED WITH CDDOT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT CDDOT AT (704) 432-1562 AT LEAST 30 DAYS PRIOR TO BEGINNING OF WORK. CONTRACTOR SHALL CONTACT CDDOT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT CDDOT AT (704) 336-8348 AS SOON AS POSSIBLE FOR IMPACTS GREATER THAN 30 DAYS. EVERY EFFORT SHALL BE MADE TO CONSTRUCT IMPROVEMENTS WITH MINIMAL IMPACT TO DRIVERS AND PEDESTRIANS.
25. RIGHT-OF-WAY CLOSURES LONGER THAN 30 DAYS REQUIRE A R/W LEASE AGREEMENT WHICH WILL INCLUDE THE SUBMITTAL OF A TRAFFIC CONTROL PLAN. TRAFFIC CONTROL PLANS REQUIRED THROUGH A LEASE AGREEMENT MAY BE DIFFERENT FROM THE ONE REQUIRED DURING THE LAND DEVELOPMENT PLAN REVIEW AND ARE SUBJECT TO REVISIONS. THE REVISED TRAFFIC CONTROL PLANS MUST BE SUBMITTED AS PART OF THE LEASE AGREEMENT PROCESS FOR APPROVAL PRIOR TO START OF R/W CLOSURES. CONTRACTOR SHALL CONTACT CDDOT AT (704) 336-8348.
26. CONSTRUCTION STAGING WITHIN CITY R/W LASTING MORE THAN 30 DAYS REQUIRES A R/W LEASE AGREEMENT. CONTRACTOR SHALL CONTACT CDDOT AT (704) 336-8348.
27. DEVELOPER TO CONTACT CDDOT (ANTHONY MENDEZ: 704-336-4971) DURING SITE PLAN PREPARATION TO DISCUSS STREET LIGHTING REQUIREMENTS, IF ANY, FOR THIS PROJECT. PLANS SHALL INCLUDE STREET LIGHTING LAYOUT AND REQUIREMENTS TO DETERMINE LIGHTING LEVELS, LIGHTING LAYOUT AND REQUIREMENTS FOR INSTALLATION.

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



ROBERT L. CASH, P.E.
NC LICENSE No. 03344

DATE | 07/06/2018

DRAWN | MAH

DESIGNED | ANB

CHECKED | RLC

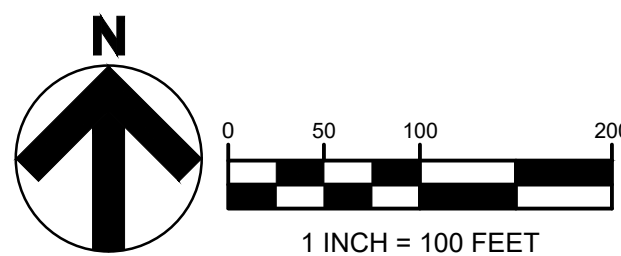
PROJECT # | CAMB17001

SHEET TITLE

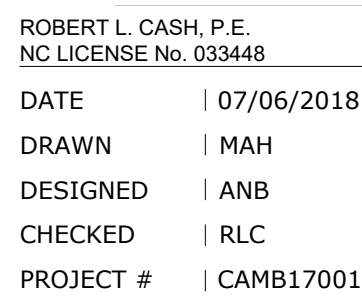
GENERAL NOTES
SHEET

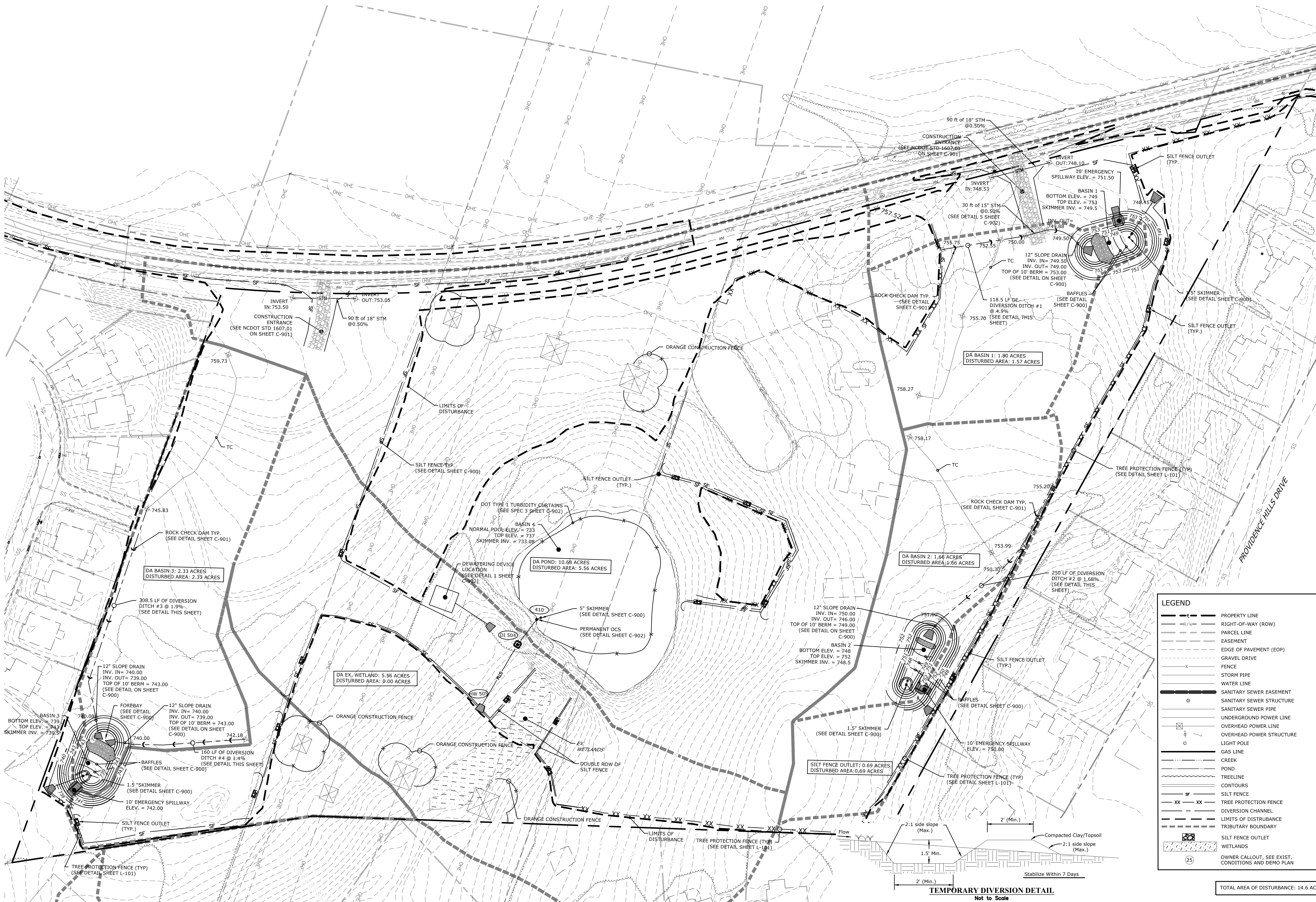
SHEET NUMBER

C-101



ADJACENT PROPERTY OWNERS	
1	CAUTION, JAMES CLARKE TAX PARCEL ID: 227-60-108 DB: 7148, PG: 743 ZONING: R-20
2	CAUTION, WILLIAM DAVIS TAX PARCEL ID: 227-60-107 DB: 7148, PG: 743 ZONING: R-20
3	WINDSOR RUN, LLC TAX PARCEL ID: 227-60-105 DB: 79150, PG: 416 ZONING: R-20
4	WALTON, ROBIN D. & GREGORY J. TAX PARCEL ID: 231-21-162 DB: 31958, PG: 436 ZONING: R-3
5	KENNEDY, JOHN A. & CHRISTINE A. TAX PARCEL ID: 231-21-161 DB: 27739, PG: 431 ZONING: R-3
6	SEALS, STEPHEN J. & DEBORAH A. TAX PARCEL ID: 231-21-160 DB: 30150, PG: 366 ZONING: R-3
7	GETTYS, ROBERT W. & JULIE A. TAX PARCEL ID: 231-21-159 DB: 22458, PG: 561 ZONING: R-3
8	SCHACKMAN, JOSEPH A. & ERIN E. TAX PARCEL ID: 231-21-158 DB: 32215, PG: 685 ZONING: R-3
9	BOONE, DAVID L. & LAURA K. N. TAX PARCEL ID: 231-21-157 DB: 19517, PG: 524 ZONING: R-3
10	DABROWIAK, ROBERT P. & CAROLYN M. TAX PARCEL ID: 231-21-156 DB: 30045, PG: 46 ZONING: R-3
11	DOROTHY M. D. STEWART REVOCABLE TRUST TAX PARCEL ID: 231-21-155 DB: 32236, PG: 190 ZONING: R-3
12	JOHNSON, LESSIE H. & MARIANNE TAX PARCEL ID: 231-21-154 DB: 17622, PG: 766 ZONING: R-3
13	PETREA, MARIA B. TAX PARCEL ID: 231-21-153 DB: 16393, PG: 686 ZONING: R-3
14	BEIGHTOL, MARK A. & LORELEI D. TAX PARCEL ID: 231-21-152 DB: 28513, PG: 573 ZONING: R-3
15	BUTLER, CLARENCE T. & DEBORAH K. TAX PARCEL ID: 231-21-151 DB: 10659, PG: 963 ZONING: R-3
16	SCHNEIDER, RICHARD L. & ANGELA J. TAX PARCEL ID: 231-21-150 DB: 29448, PG: 60 ZONING: R-3
17	THE ALTER LIVING TRUST TAX PARCEL ID: 231-21-149 DB: 26141, PG: 85 ZONING: R-3
18	CUSIC, THOMAS E. TAX PARCEL ID: 231-21-209 DB: 32082, PG: 293 ZONING: R-3
19	MATTHEWS GROVE HOA, INC. TAX PARCEL ID: 231-21-679 DB: 23240, PG: 687 ZONING: R-3
20	COLLINS, EARL B. TAX PARCEL ID: 231-21-618 DB: 31051, PG: 894 ZONING: R-3
21	PAYAN, HOMAYOUNI & RAKSHAN, MARJAN TAX PARCEL ID: 231-21-626 DB: 28847, PG: 52 ZONING: R-3
22	BERNAL, AMILCAR & LESLIE TAX PARCEL ID: 231-21-626 DB: 18818, PG: 476 ZONING: R-3
23	MSM PROPERTIES, LLC TAX PARCEL ID: 231-21-625 DB: 20345, PG: 355 ZONING: R-3
24	BROWN, RICHARD W. TAX PARCEL ID: 231-21-624 DB: 18525, PG: 461 ZONING: R-3
25	DRAKE, RORY W. & KIMBERLY F. TAX PARCEL ID: 231-21-623 DB: 18524, PG: 871 ZONING: R-3
26	WILLIAMS, ROBERT L. & MONICA C. TAX PARCEL ID: 231-21-622 DB: 18605, PG: 481 ZONING: R-3

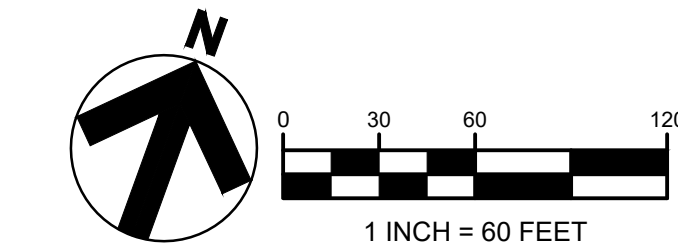




DIVERSION DITCH	DRAINAGE AREA (ACRES)	10-YR Q (CFS)	DEPTH (FT)	BOTTOM WIDTH (FT Min.)	SLOPE (%)	TEMPORARY LINING
4	0.37	0.774	1.5	2	1.4	Synthetic Mat

DIVERSION DITCH	DRAINAGE AREA (ACRES)	10-YR Q (CFS)	DEPTH (FT)	BOTTOM WIDTH (FT Min.)	SLOPE (%)	TEMPORARY LINING
3	1.65	3.11	1.5	2	1.9	Synthetic Mat
2	1.13	2.24	1.25	2	1.68	Synthetic Mat
1	1.80	2.57	1.0	2	4.9	Synthetic Mat

* ALL DIVERSION DITCHES ARE TEMPORARY. DIVERSION CHANNEL MIN. SLOPE = 0.5%

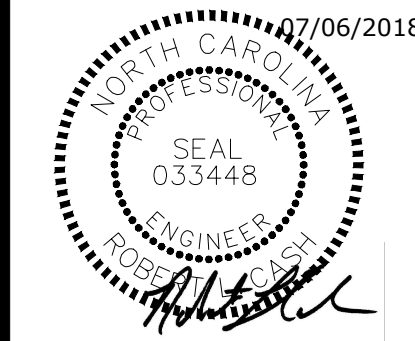


LEGEND	
	PROPERTY LINE
	RIGHT-OF-WAY (ROW)
	PARCEL LINE
	EASEMENT
	EDGE OF PAVEMENT (EOP)
	GRAVEL DRIVE
	FENCE
	STORM PIPE
	WATER LINE
	SANITARY SEWER EASEMENT
	SANITARY SEWER STRUCTURE
	SANITARY SEWER PIPE
	UNDERGROUND POWER LINE
	OVERHEAD POWER LINE
	OVERHEAD POWER STRUCTURE
	LIGHT POLE
	GAS LINE
	CREEK
	POND
	TREELINE
	CONTOURS
	SILT FENCE
	TREE PROTECTION FENCE
	DIVERSION CHANNEL
	LIMITS OF DISTURBANCE
	TRIBUTARY BOUNDARY
	SILT FENCE OUTLET
	WETLANDS
	OWNER CALLOUT, SEE EXIST. CONDITIONS AND DEMO PLAN

TOTAL AREA OF DISTURBANCE: 14.6 AC

TEMPORARY DIVERSION DETAIL
Not to Scale

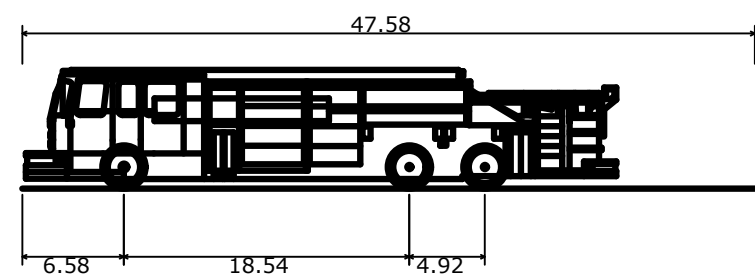
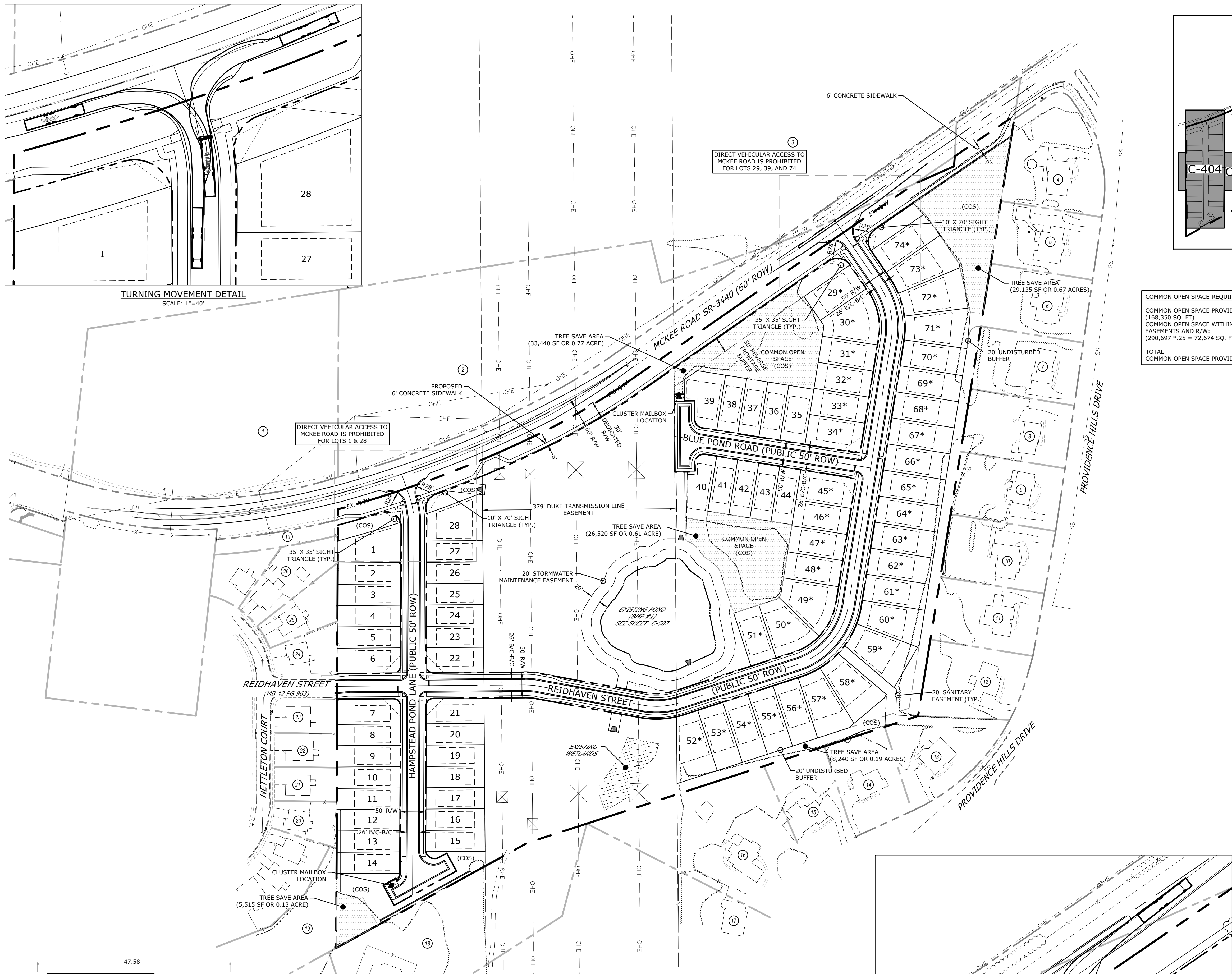
#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE



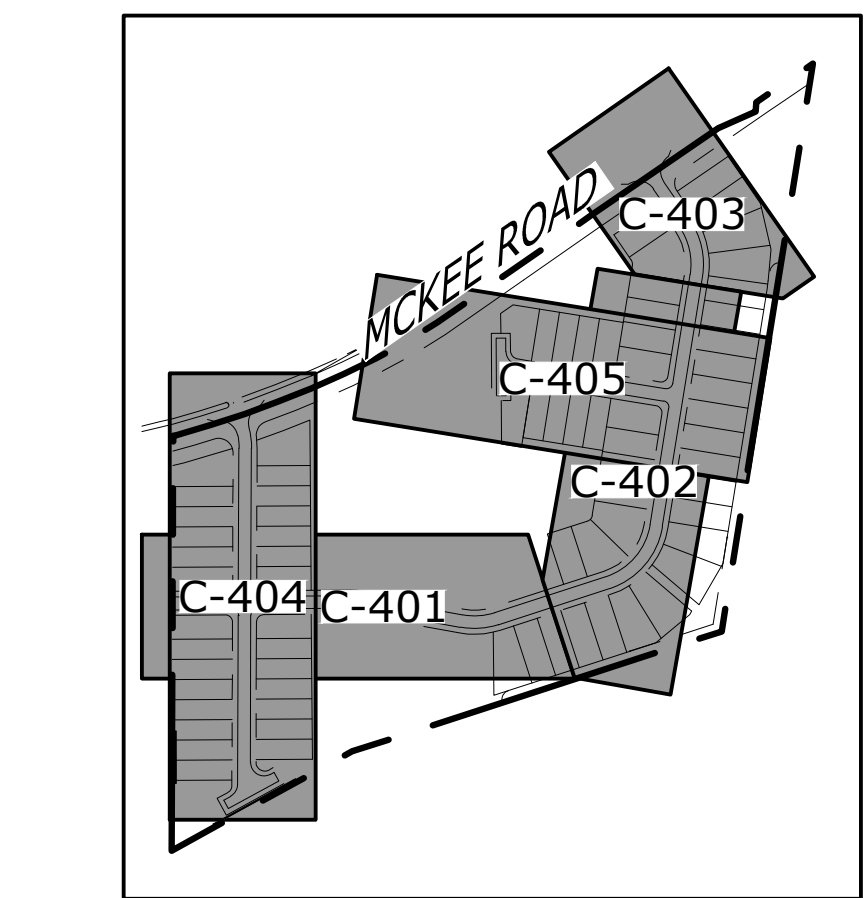
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT # : CAMB17001

SHEET TITLE
EROSION CONTROL
PHASE 1
SHEET NUMBER

C-300



CITY OF CHARLOTTE FIRE
Overall Length 47.580ft
Overall Width 8.000ft
Overall Body Height 7.715ft
Min Body Ground Clearance 0.627ft
Track Width 8.000ft
Lock-to-lock time 6.00s
Max Wheel Angle 33.30°

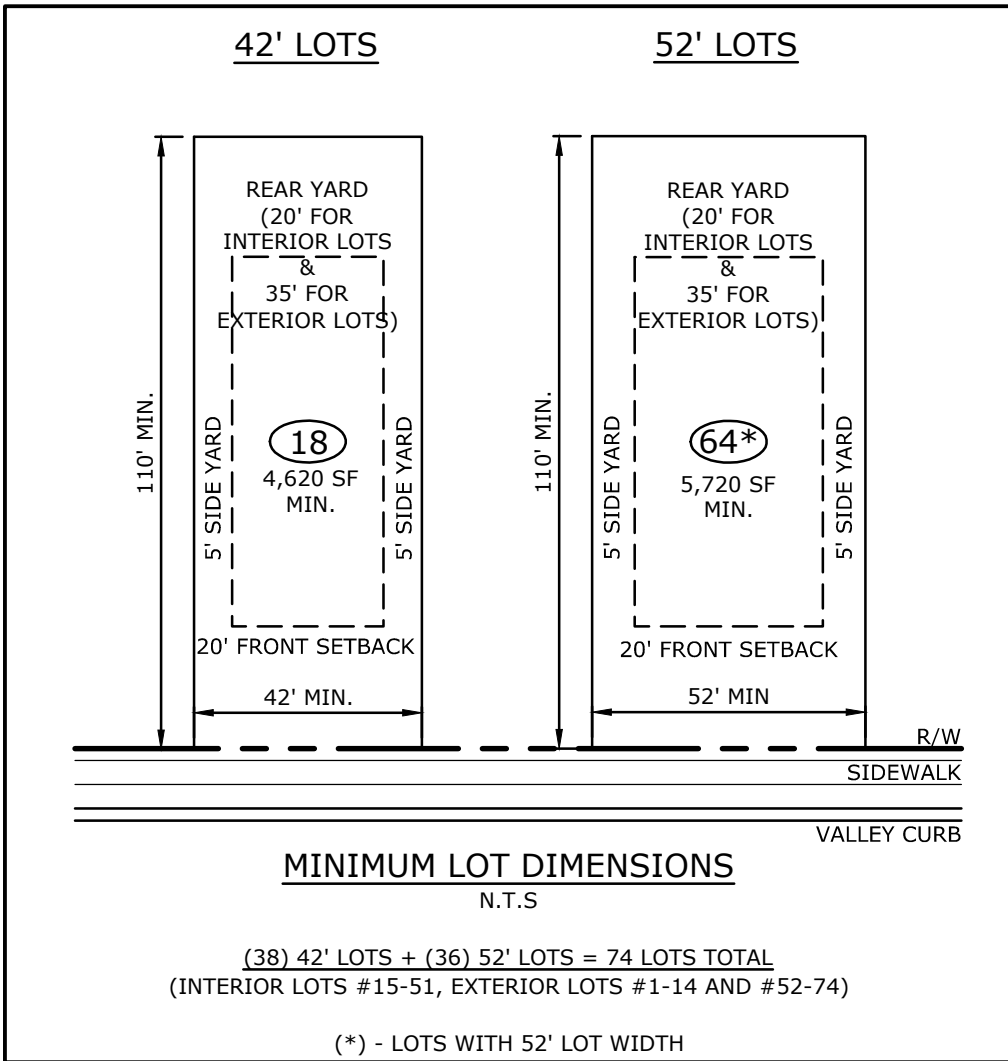


INDEX MAP
SCALE: 1"=400'

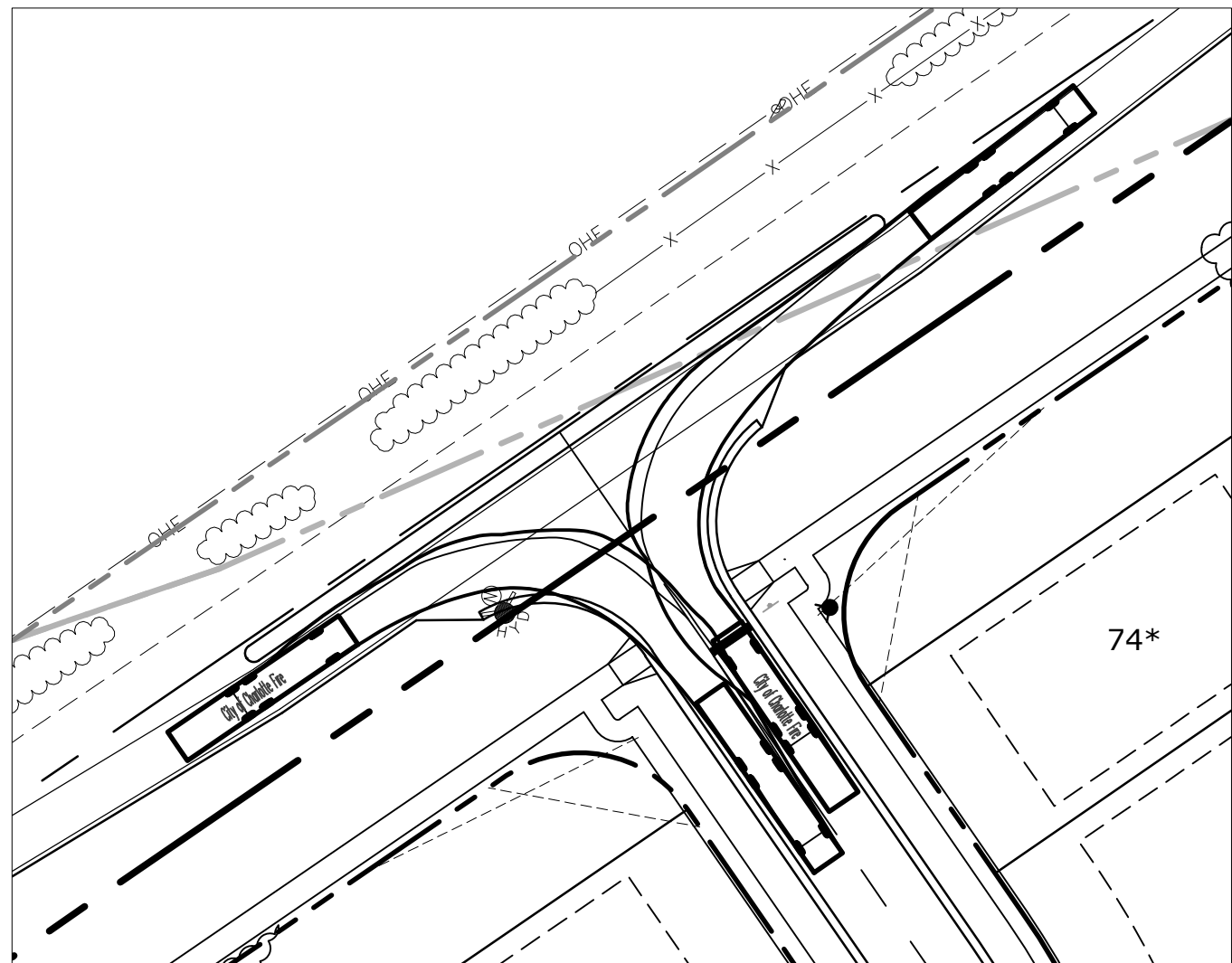
COMMON OPEN SPACE REQUIRED:	2.6 AC.
COMMON OPEN SPACE PROVIDED:	3.86 AC.
(168,350 SQ. FT.)	
COMMON OPEN SPACE WITHIN UTILITY EASEMENTS AND R/W:	1.67 AC.
(290,697 * .25 = 72,674 SQ. FT.)	
TOTAL COMMON OPEN SPACE PROVIDED:	5.53 AC.

LEGEND	
	PROPERTY LINE
	ADJACENT PARCEL
	EASEMENT
	RIGHT OF WAY
	BACK OF CURB (BC)
	EDGE OF PAVEMENT (EP)
	CENTER LINE OF PAVEMENT
	CONCRETE SIDEWALK
	PARCEL LINE
	SETBACK LINE
	STORMWATER EASEMENT
	SANITARY SEWER EASEMENT
	LANDSCAPE BUFFER
	TREELINE
	STREAM / CREEK
	WETLANDS
	TREE SAVE AREA

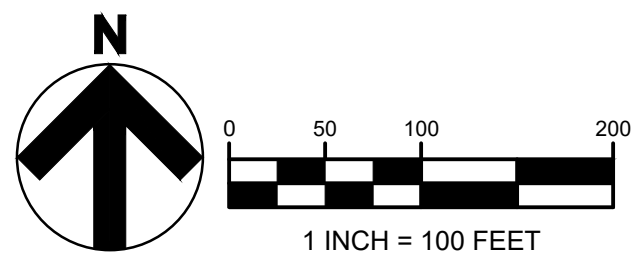
*REFER TO SHEET C-200 FOR ADJACENT PROPERTY OWNER INFORMATION.



PROJECT DATA TABLE	
OWNER:	PIRAINO BROTHERS, LLC 5137 S PARVIEW DR, CHARLOTTE, NC 28226
DEVELOPER INFO:	CAMBRIDGE PROPERTIES 831 EAST MOREHEAD STREET, CHARLOTTE, NC 28202 TEL: (704) 333-2393
CONTACT:	ANDREW McDONALD AJM@CAMBRIDGEPROP.COM
EMAIL:	
SITE ADDRESS:	1501 MCKEE ROAD, MATTHEWS, NC 28105
GROSS SITE AREA:	25.5 ACRES
P.I.D. No.:	23121168
DEED BOOK/ PAGE:	23180/987
EXISTING ZONING:	R-5 (CD)
EXISTING OVERLAY(S):	N/A
EXISTING USE:	VACANT PROPERTY
PROPOSED USE:	RESIDENTIAL SUBDIVISION R-5 (CD)
PROPOSED # OF LOTS:	74 LOTS
TOTAL # OF LOTS:	42' LOTS: 53 52' LOTS: 22
MINIMUM LOT SIZE:	42' LOT: 4,500 SF
BUILDING SETBACKS REQUIRED:	
FRONT	20 FT.
CORNER	13 FT.
SIDE	5 FT.
REAR	20 FT. INTERNAL 35 FT. EXTERNAL
MAX. BUILDING HEIGHT:	40 FT.
SITE DEVELOPMENT AREA:	25.5 ACRES - 5.79 ACRES (DUKE R/W) - 0.97 ACRES (EX. POND) - 1.05 ACRES MCKEE ROAD DED. R/W - 3.54 ACRES PROPOSED ROAD R/W - 0.63 ACRES DED. UTILITY ESMTS. = 13.52 ACRES
REQUIRED TREE SAVE AREA:	2.03 ACRES (15% OF SITE DEVELOPMENT AREA)
PROVIDED TREE SAVE AREA:	2.18 ACRES
REQUIRED OPEN SPACE:	2.6 ACRES (10% OF GROSS SITE AREA)
PROVIDED OPEN SPACE:	5.53 ACRES (21.7%)
FLOOD ZONE	
BASED ON THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP PANEL NUMBER 3710446800K, DATED FEBRUARY 19, 2014. THE HEREON DESCRIBED PROPERTY IS LOCATED IN ZONE "X".	
WATERSHED	TWELVE MILE CREEK
DRAINAGE BASIN	CATAWBA RIVER



TURNING MOVEMENT DETAIL
SCALE: 1"=40'



SITE PLAN
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE

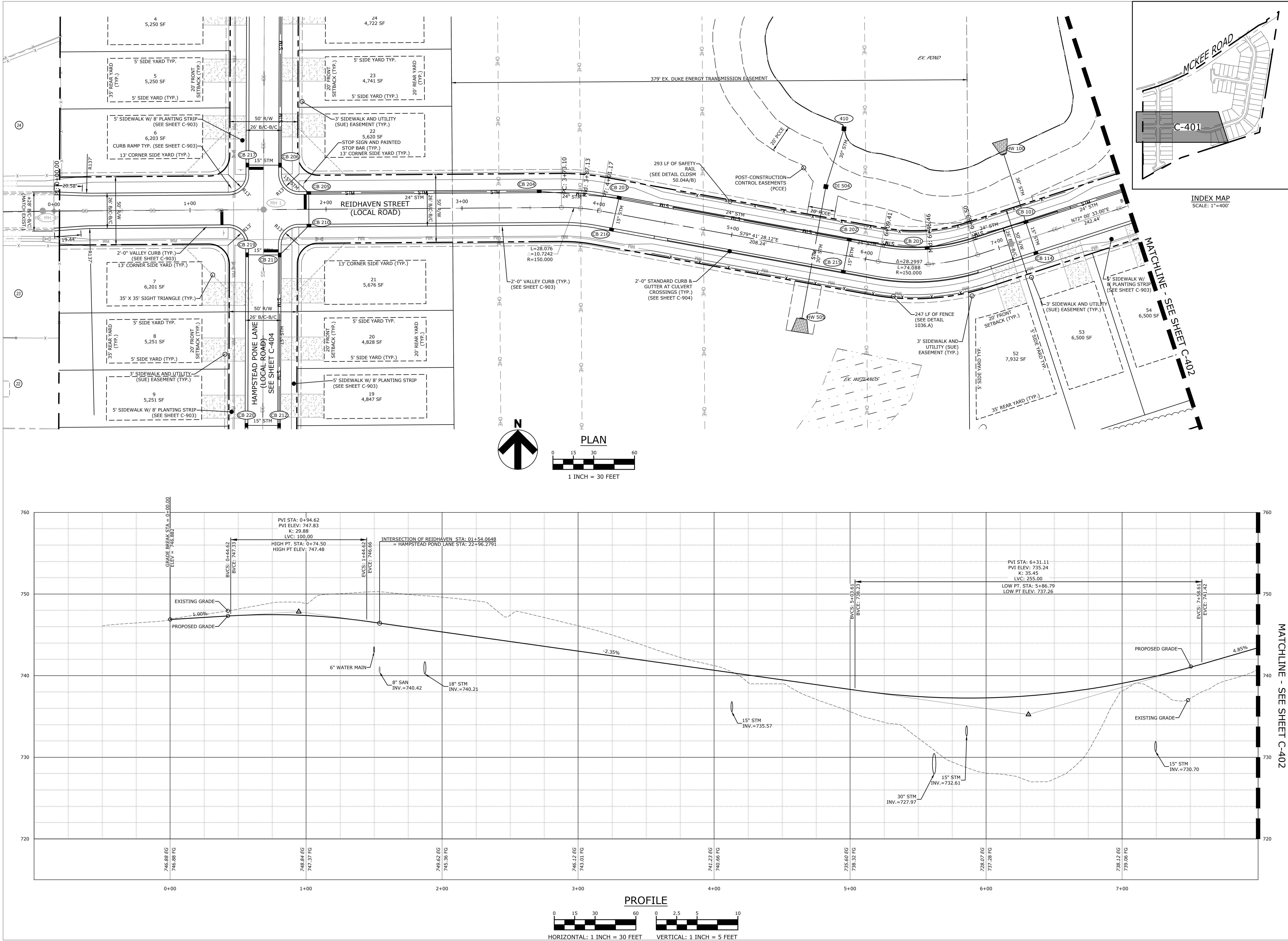


ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE 07/06/2018
DRAWN MAH
DESIGNED ANB
CHECKED RLC
PROJECT # CAMB17001
SHEET TITLE

SITE PLAN
SHEET NUMBER

C-400

Plot Stamp: 7/12/2018 2:14:09 PM - Shane Firm
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-401 REIDHAVEN ST PLAN AND PROFILES.dwg, Tab: C-401 REIDHAVEN ST PLAN & PROFILE



CHARLOTTE
9800 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927-9700 www.cardno.com

CAMBRIDGE PROPERTIES

REIDHAVEN ST PLAN & PROFILE

THE POND AT MCKEE GLEN

CAMBRIDGE PROPERTIES

CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE

ROBERT L. CASH, P.E.
NC LICENSE No. 033448

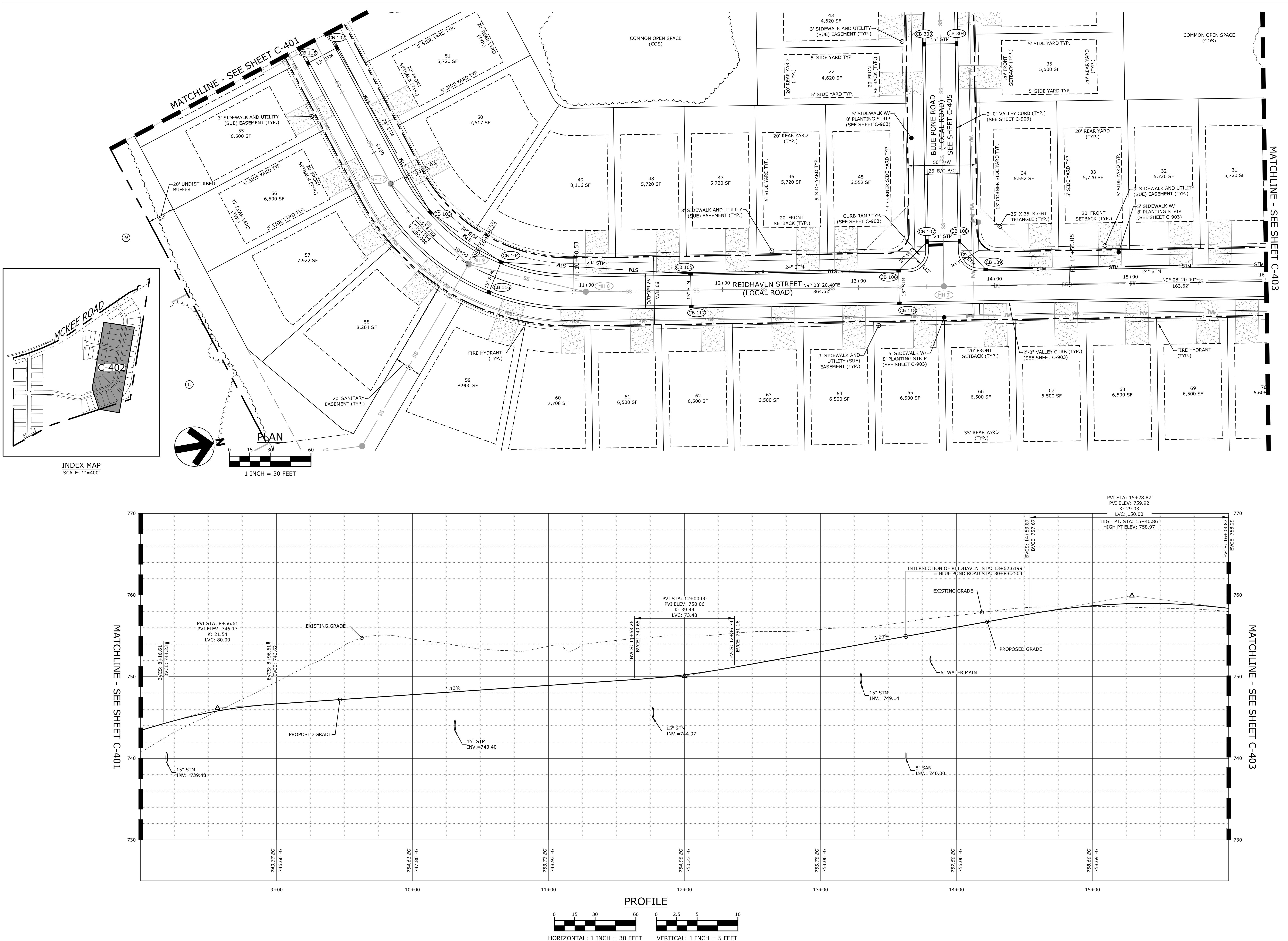
DATE: 07/06/2018

DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

SHEET TITLE
REIDHAVEN ST PLAN & PROFILE

SHEET NUMBER
C-401

Plot Stamp: 7/12/2018 2:14:18 PM - Shane Firm
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-401_REIDHAVEN ST PLAN AND PROFILES.dwg, Tab: C-402 REIDHAVEN ST PLAN & PROFILE





CHARLOTTE
9800 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927-9700 www.cardno.com



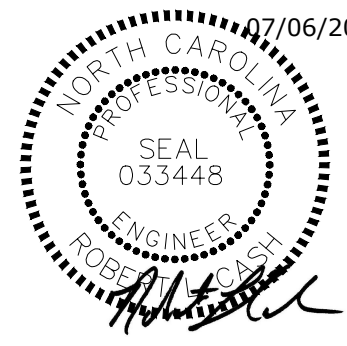
REIDHAVEN ST PLAN & PROFILE

THE POND AT MCKEE GLEN

CAMBRIDGE PROPERTIES

CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE
	07/06/2018	



ROBERT L. CASH, P.E.
NC LICENSE No. 033448

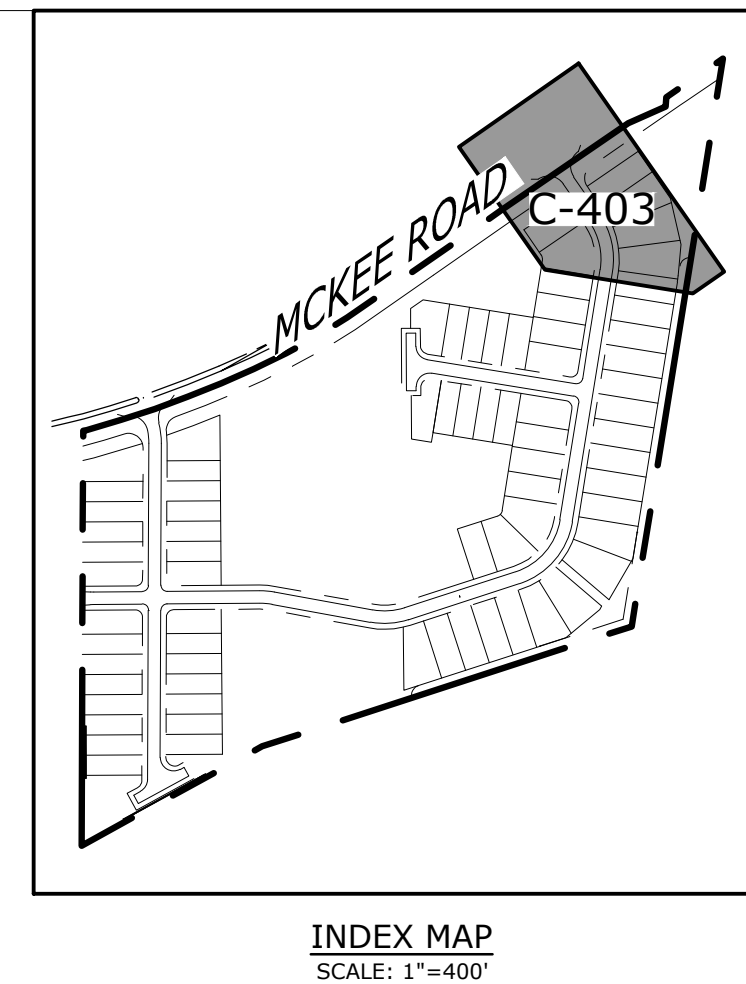
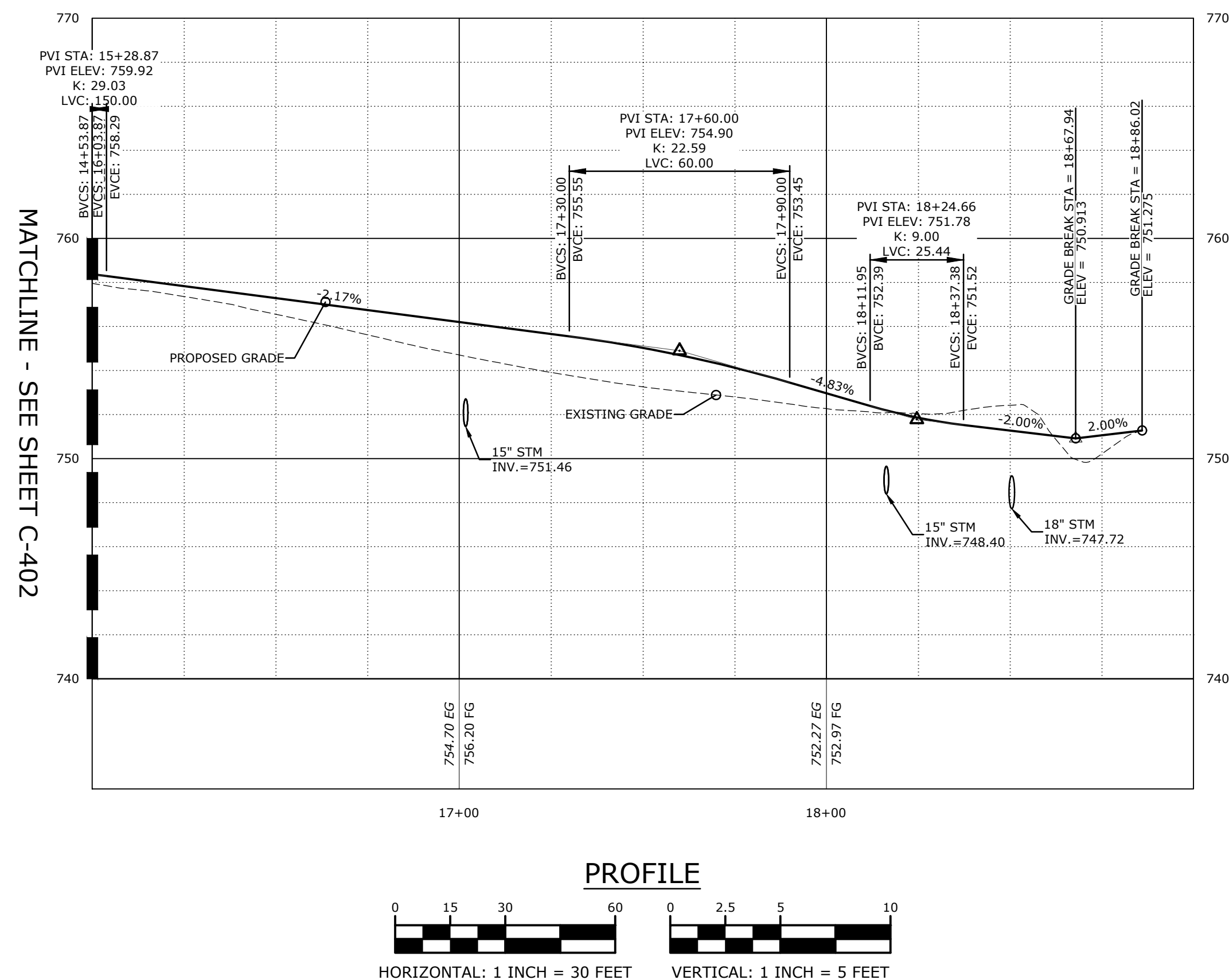
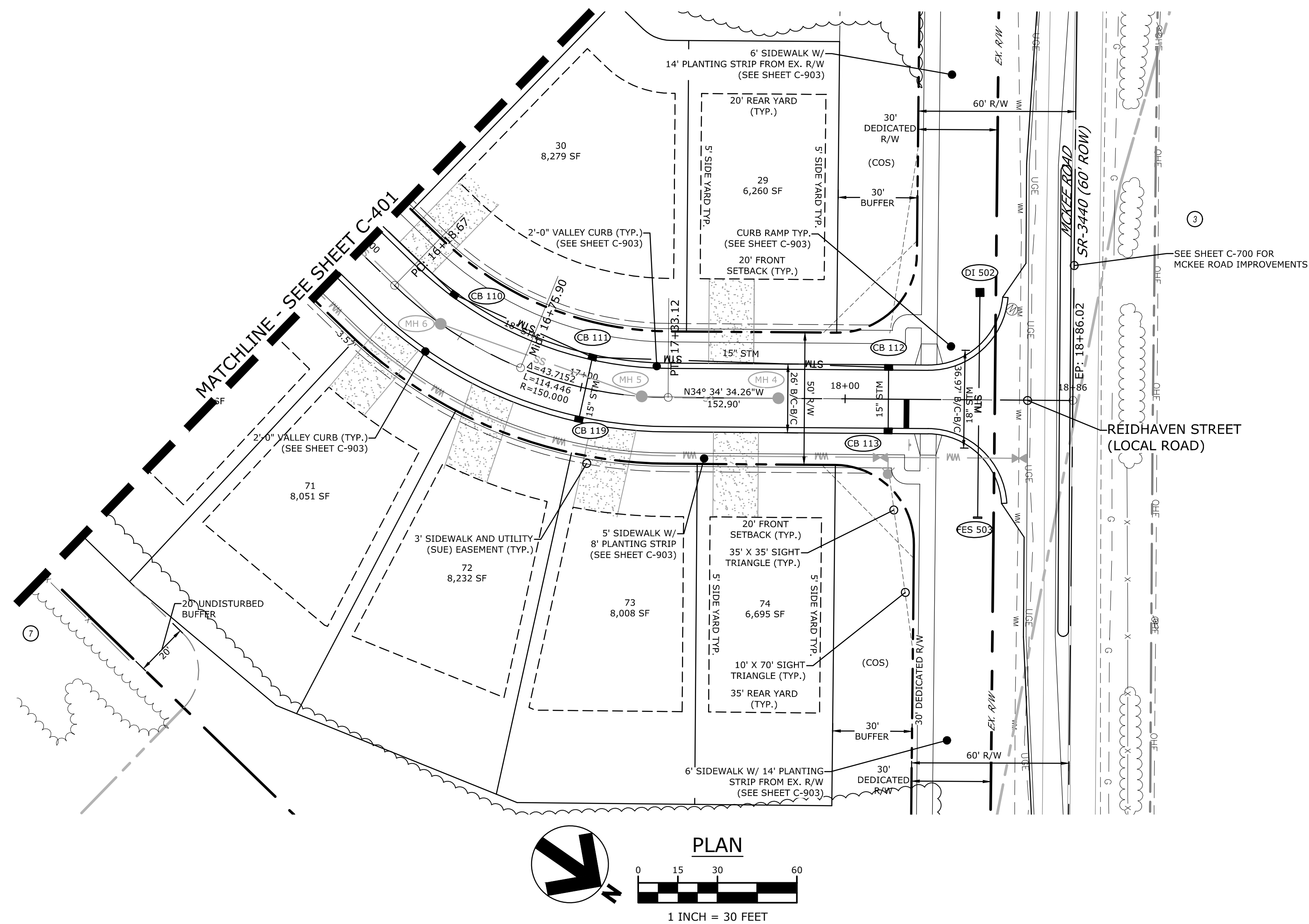
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE

REIDHAVEN ST PLAN & PROFILE

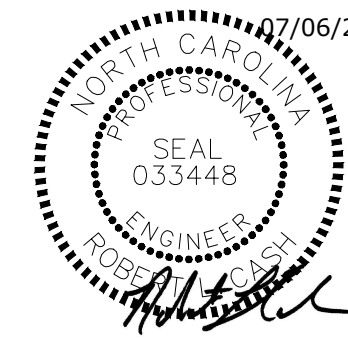
SHEET NUMBER

C-402



REIDHAVEN ST PLAN & PROFILE
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

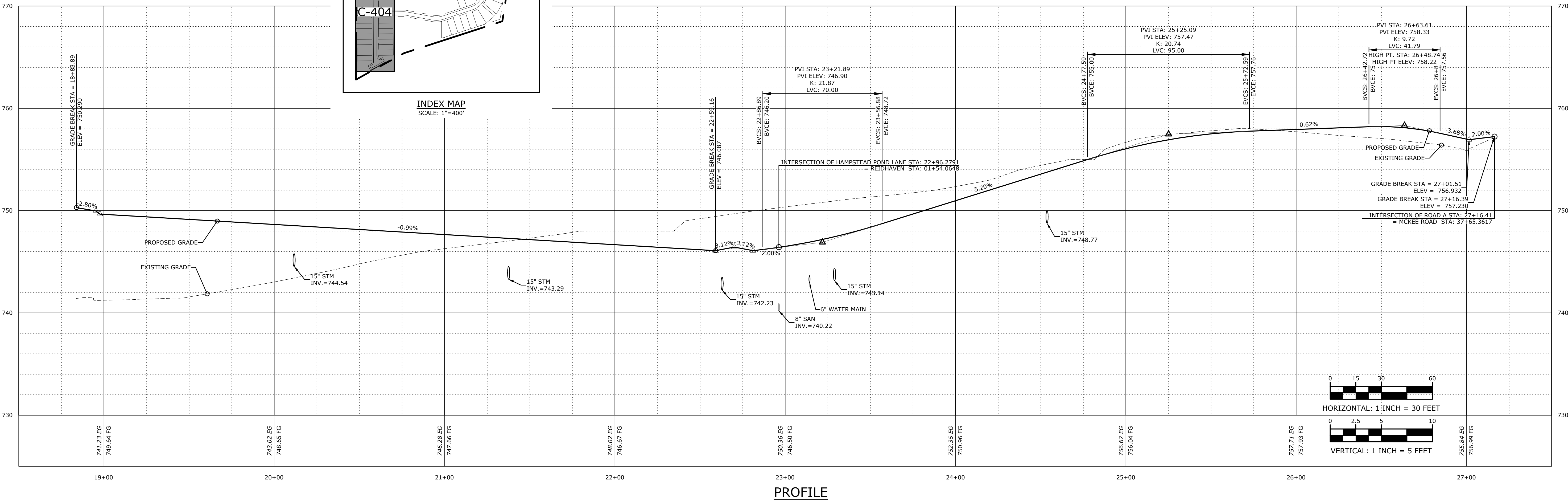
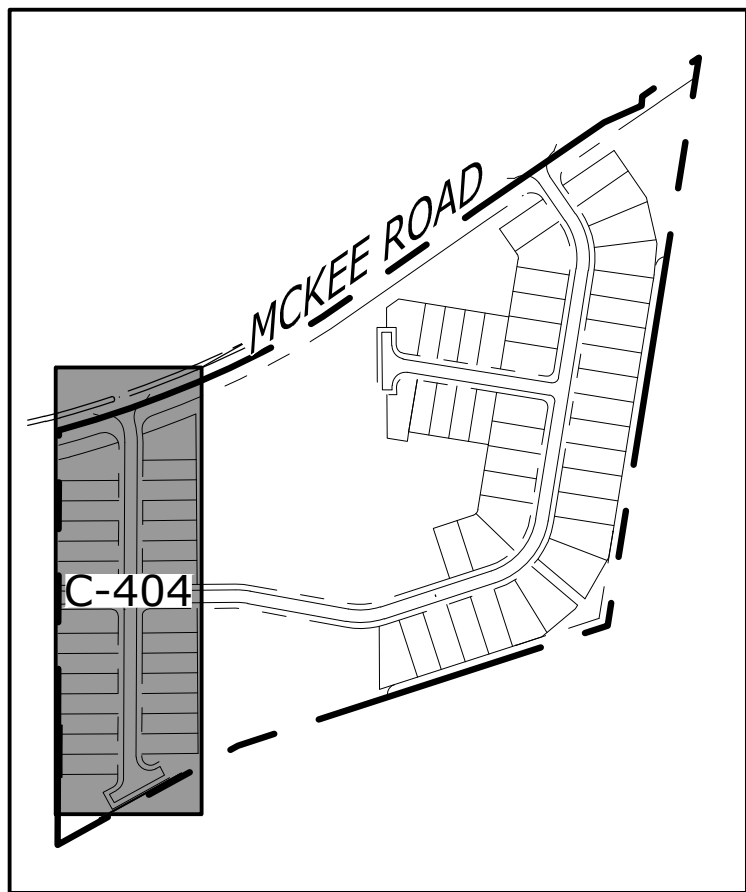
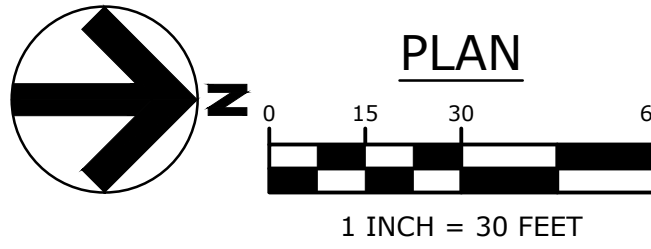
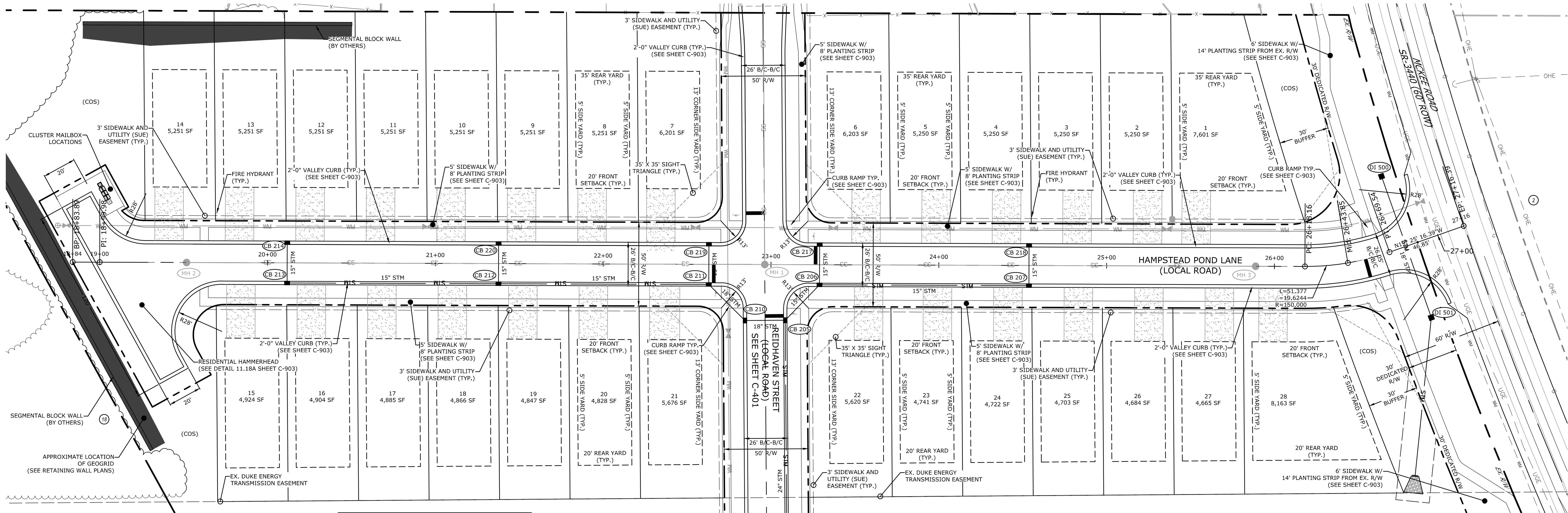


ROBERT L. CASH, P.E. NC LICENSE No. 033448	
DATE	07/06/2018
DRAWN	MAH
DESIGNED	ANB
CHECKED	RLC
PROJECT #	CAMB17001

SHEET TITLE
REIDHAVEN ST PLAN & PROFILE
SHEET NUMBER

C-403

Plot Stamp: 7/12/2018 2:14:36 PM - Shane Firm
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-401. ROAD A PLAN AND PROFILES.dwg, Tab: C-404 HAMPSTEAD POND LANE PLAN & PROFILE



CHARLOTTE

9600 SOUTHERN PINE BLVD., SUITE 1

CHARLOTTE, NORTH CAROLINA 28273

TEL: (704) 927-9700 www.cardno.com

HAMPSTEAD POND LANE PLAN & PROFILE

THE POND AT MCKEE GLEN

CAMBRIDGE PROPERTIES

CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

NORTH CAROLINA

SEAL

033448

ROBERT L. CASH, P.E.

07/06/2018

ROBERT L. CASH, P.E.

NC LICENSE No. 033448

DATE | 07/06/2018

DRAWN | MAH

DESIGNED | ANB

CHECKED | RLC

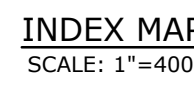
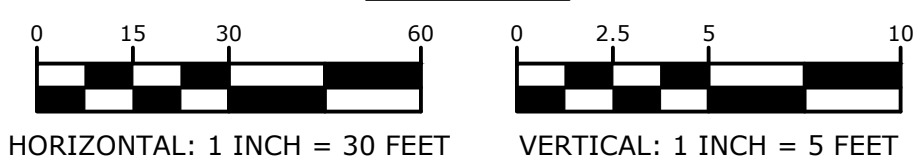
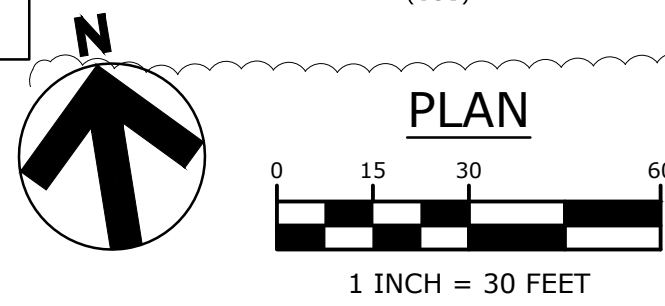
PROJECT # | CAMB17001

SHEET TITLE

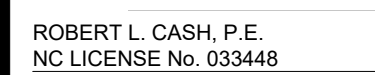
HAMPSTEAD POND LANE PLAN & PROFILE

SHEET NUMBER

C-404



#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

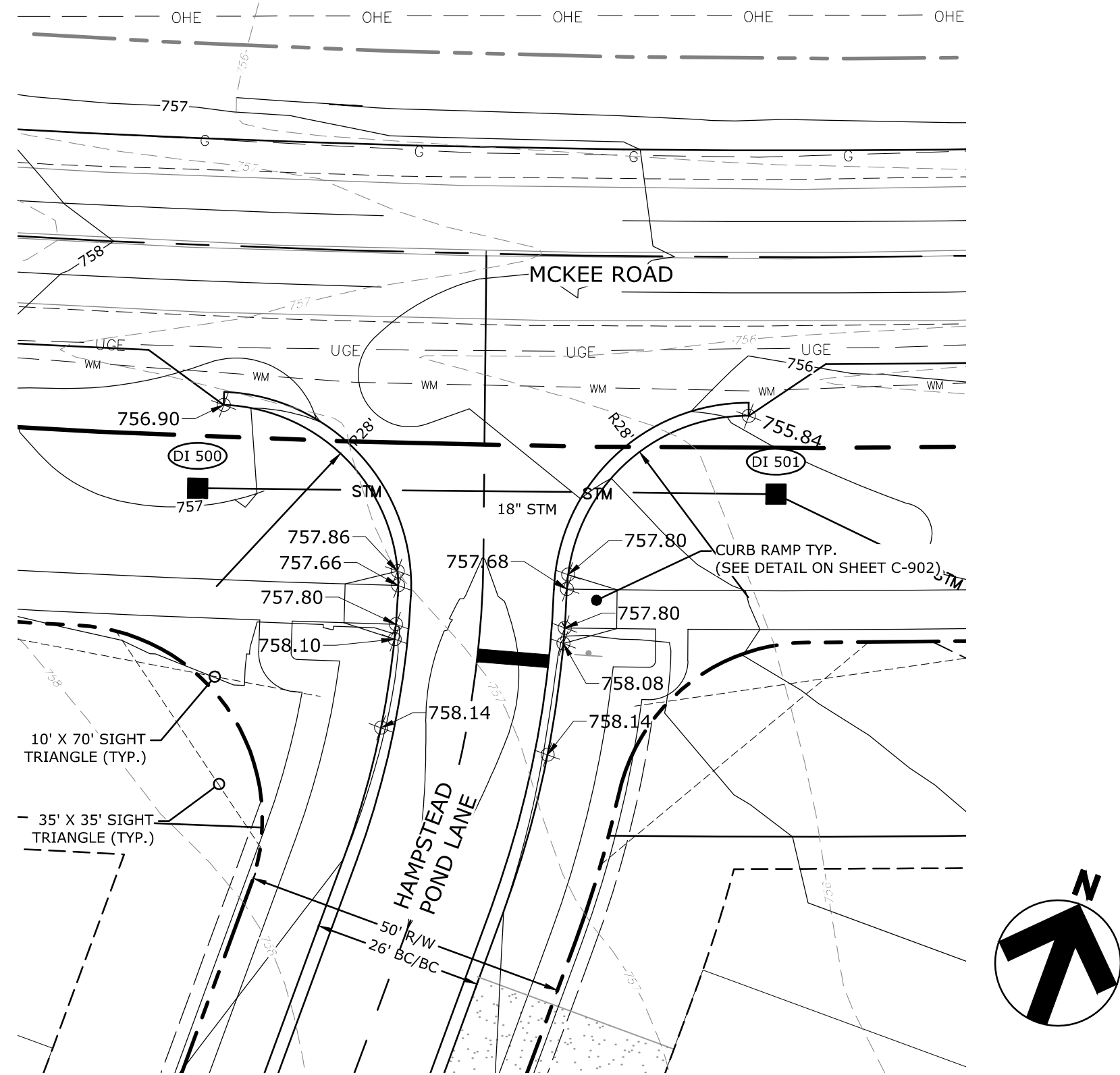


SHEET TITLE

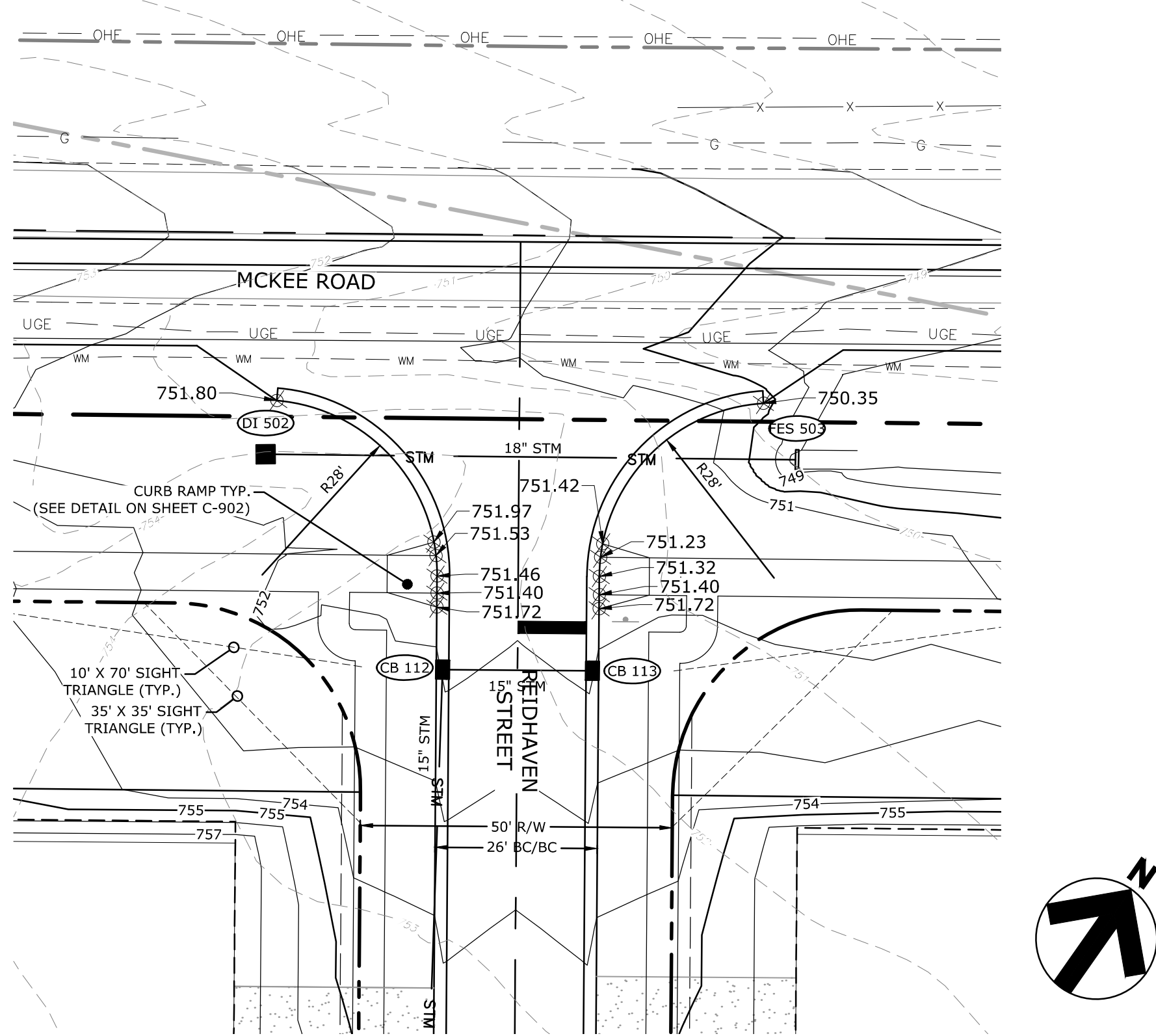
C 105

C-405

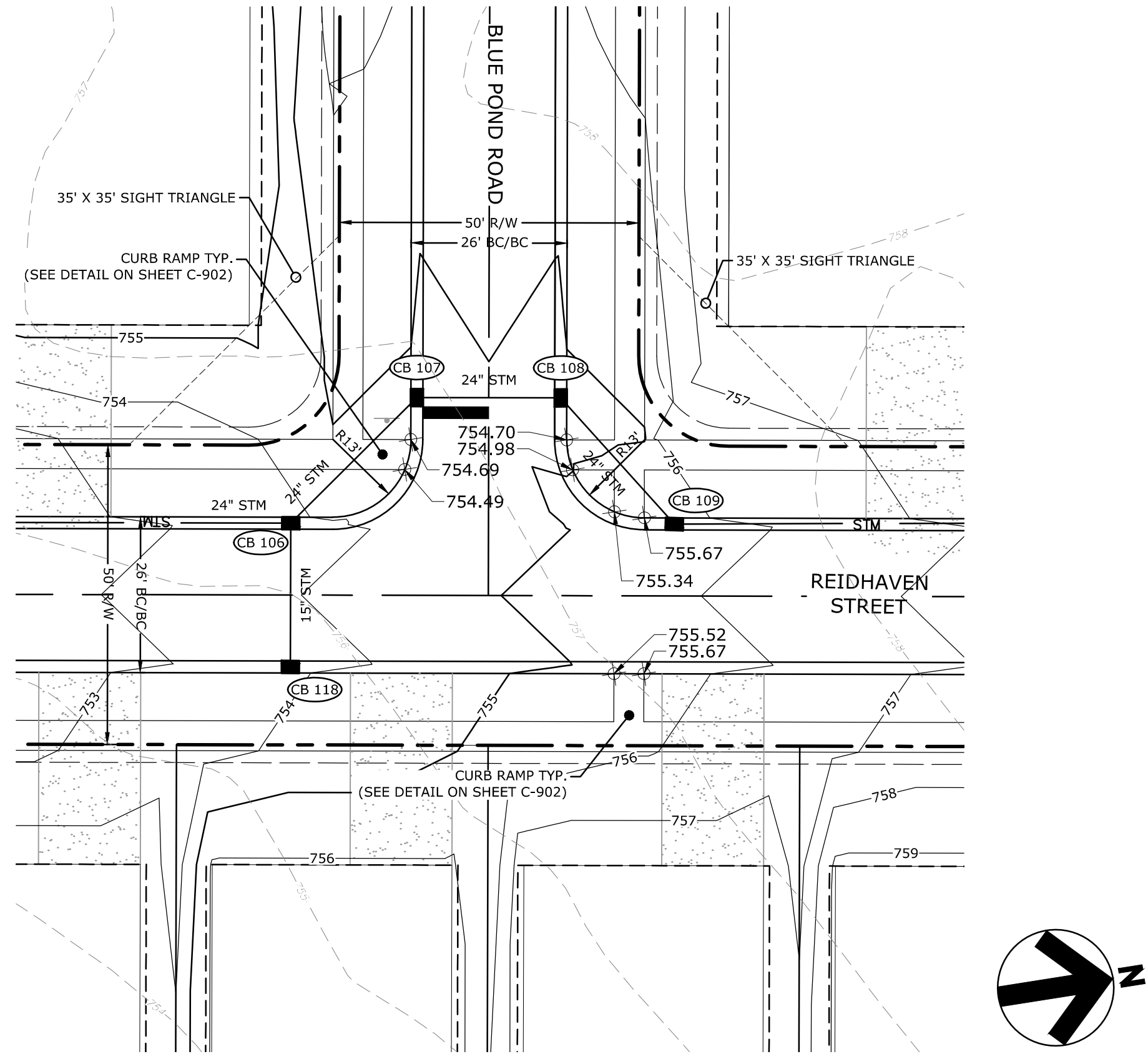
Plot Stamp: 7/12/2018 2:15:10 PM - Shane Firm
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-402 INTERSECTION DETAILS.dwg, Tab: C-406 INTERSECTION DETAILS



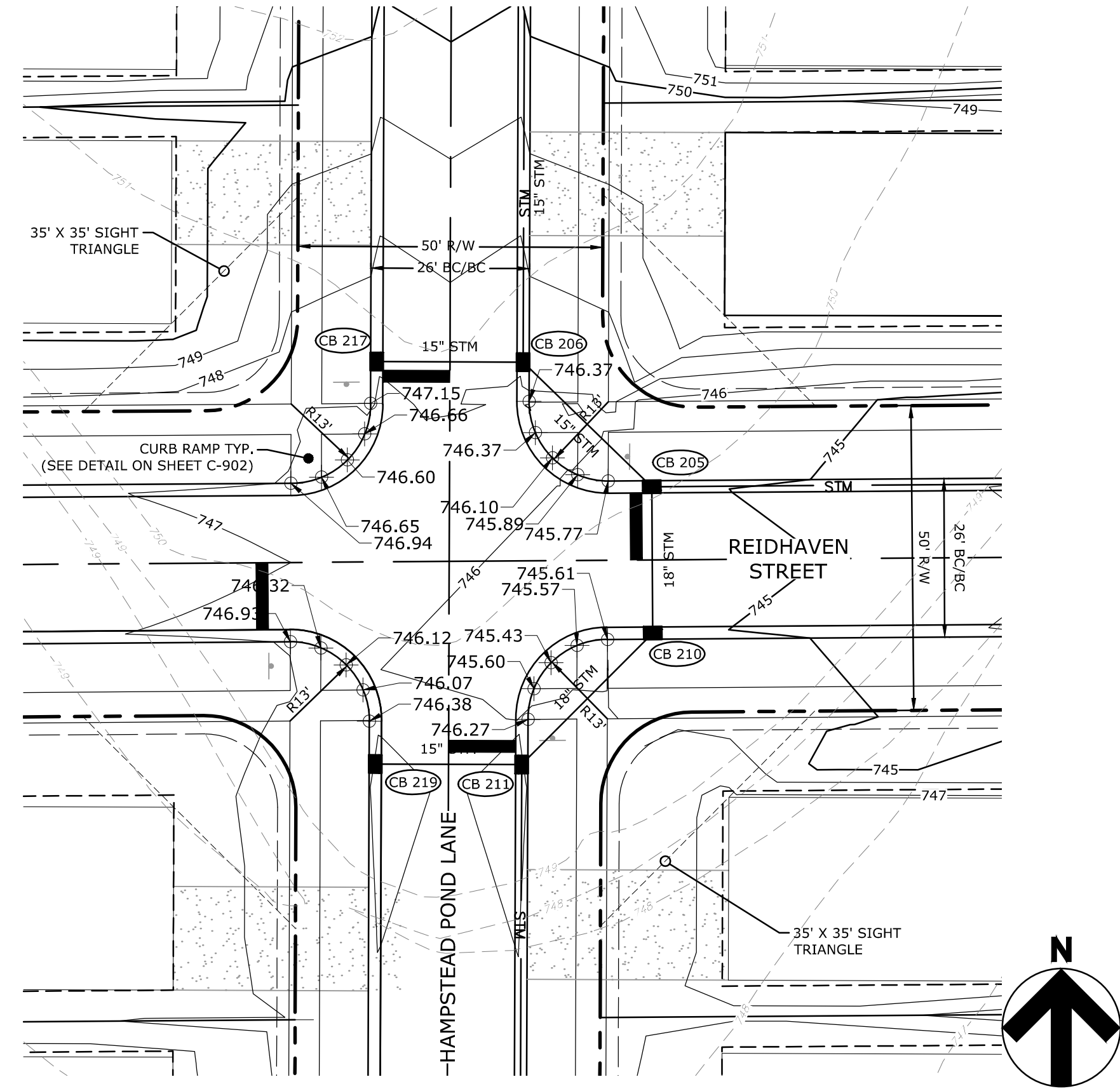
HAMPSTEAD POND LANE & MCKEE ROAD
INTERSECTION DETAIL C-406F



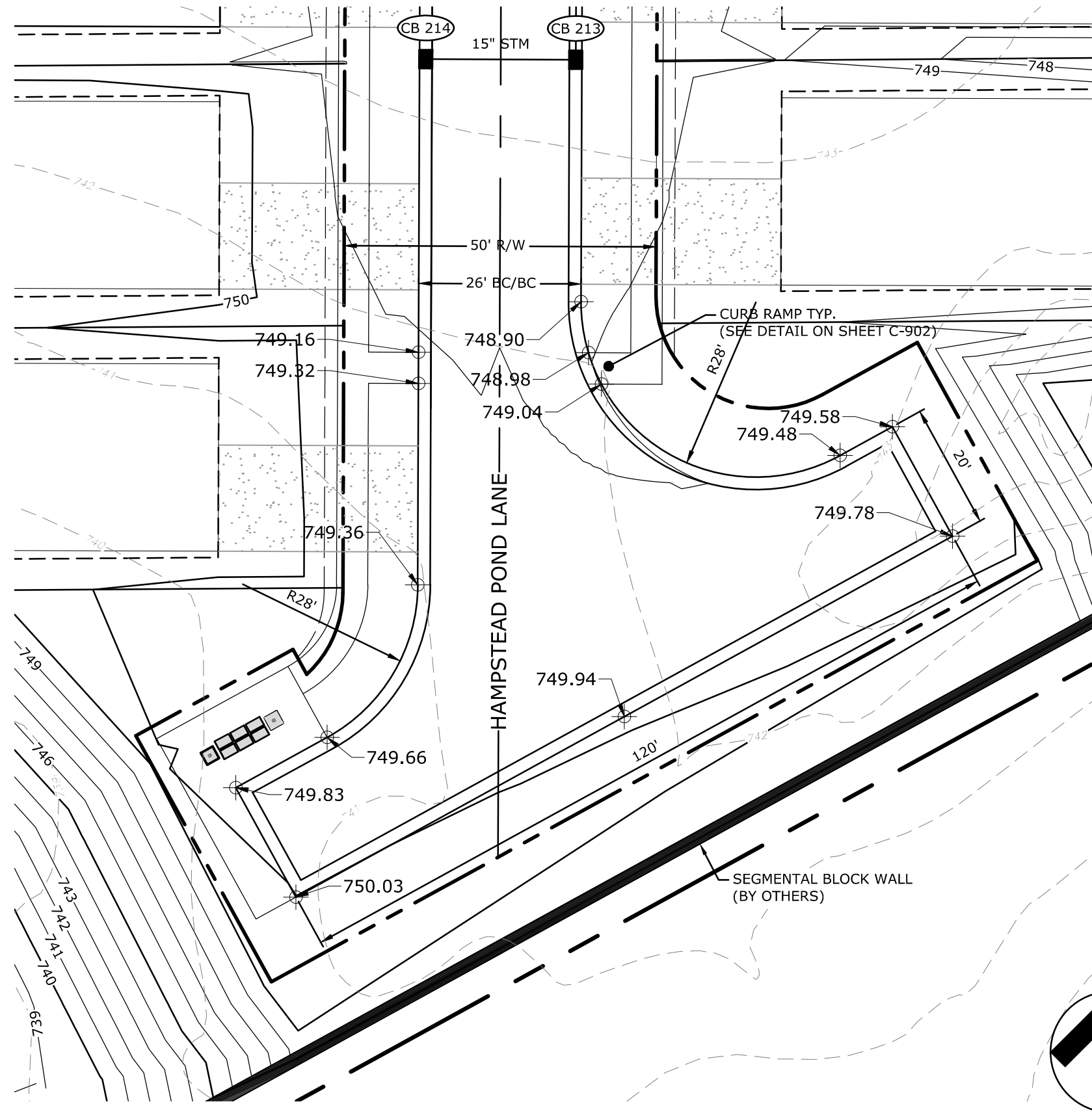
REIDHAVEN STREET & MCKEE ROAD
INTERSECTION DETAIL C-406D



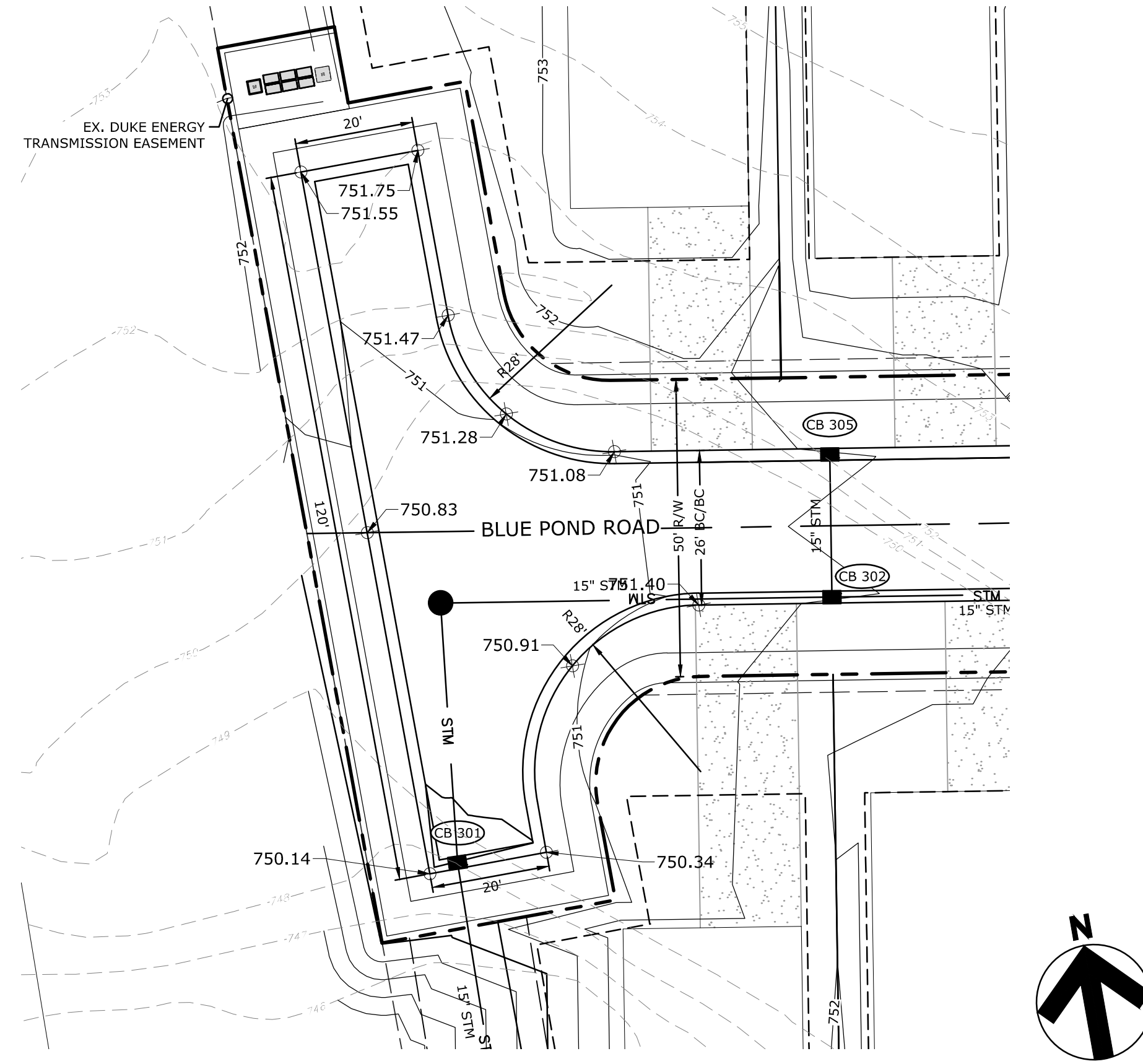
REIDHAVEN STREET & BLUE POND ROAD
INTERSECTION DETAIL C-406B



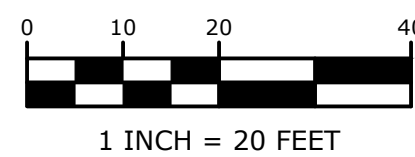
REIDHAVEN STREET & HAMPSTEAD POND LANE
INTERSECTION DETAIL C-406E



HAMPSTEAD POND LANE
HAMMERHEAD DETAIL C-406C

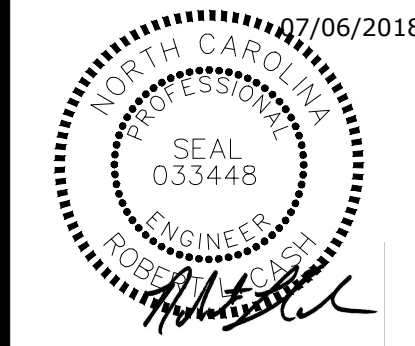


BLUE POND ROAD
HAMMERHEAD DETAIL C-406A



INTERSECTION DETAILS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

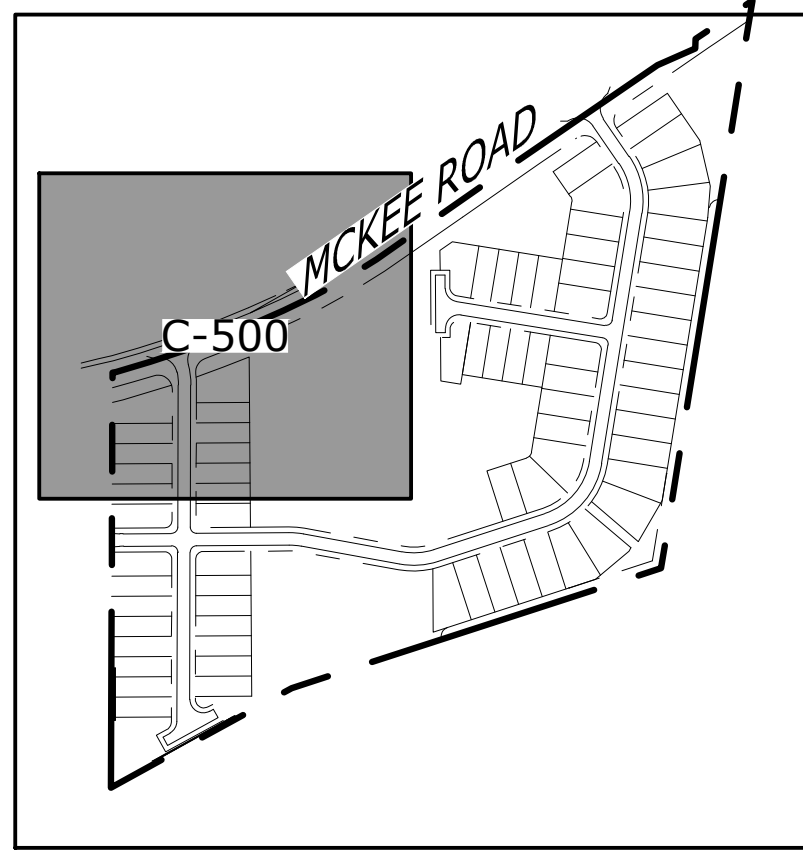
#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE



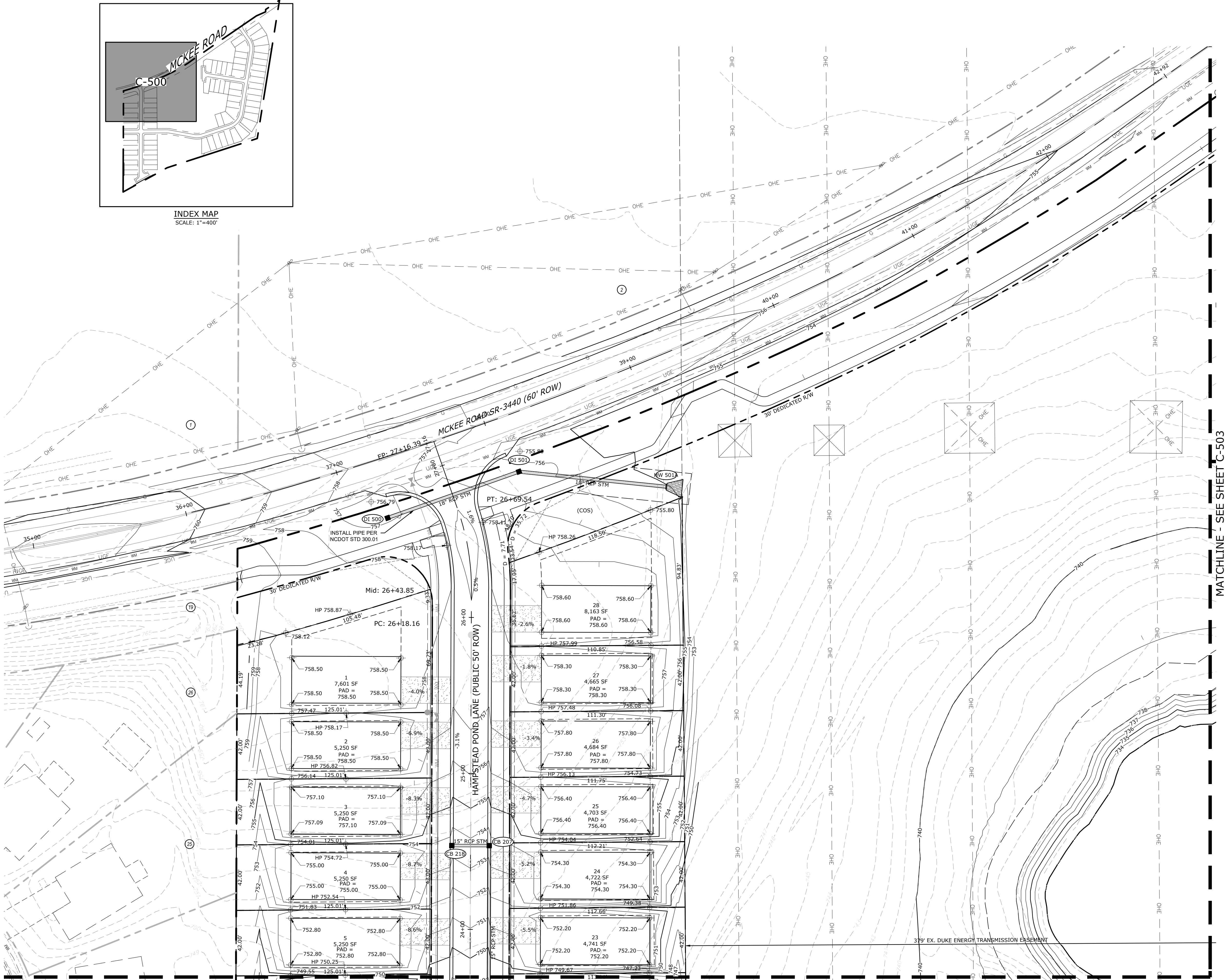
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

SHEET TITLE
INTERSECTION
DETAILS
SHEET NUMBER

C-406



INDEX MAP
SCALE: 1"=400'



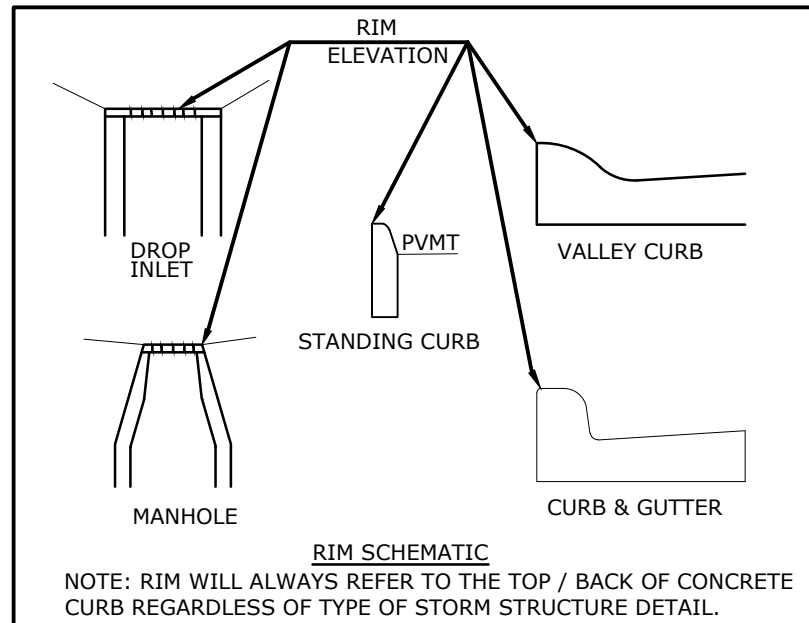
MATCHLINE - SEE SHEET C-501

MATCHLINE - SEE SHEET C-503

LEGEND

- RIGHT OF WAY
- PROPERTY LINE
- ADJACENT PARCEL
- EASEMENT
- TREELINE
- STREAM
- POND
- RIPIARIAN BUFFER LIMITS
- LOCAL STREET RIGHT OF WAY
- SIDEWALK
- BACK OF CURB (BC)
- EDGE OF PAVEMENT (EP)
- CENTERLINE OF ROAD
- PARCEL SETBACK
- PARCEL LINE
- OVERHEAD POWER
- GAS LINE
- SANITARY SEWER
- SANITARY SEWER FORCE MAIN
- SANITARY SEWER MANHOLE
- SANITARY CLEANOUT
- WATER MAIN
- FIRE HYDRANT
- WATER METER
- STORM PIPE
- STORM STRUCTURE
- WETLANDS
- CONTOURS

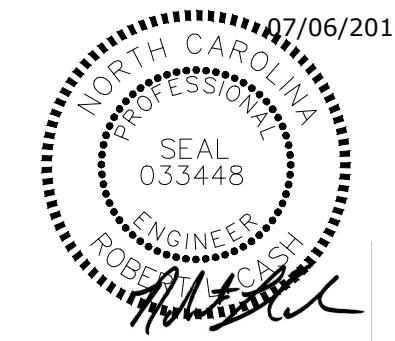
*REFER TO SHEET C-200 FOR ADJACENT PROPERTY OWNER INFORMATION.



NOTE: RIM WILL ALWAYS REFER TO THE TOP / BACK OF CONCRETE CURB REGARDLESS OF TYPE OF STORM STRUCTURE DETAIL.

GRADING PLAN THE POND AT MCKEE GLEN CAMBRIDGE PROPERTIES CITY OF CHARLOTTE, NORTH CAROLINA

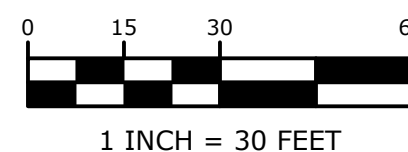
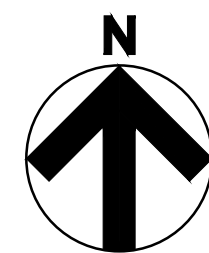
#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

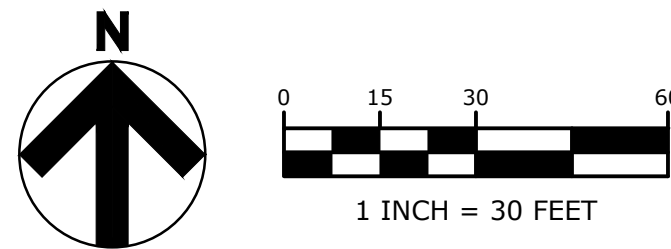
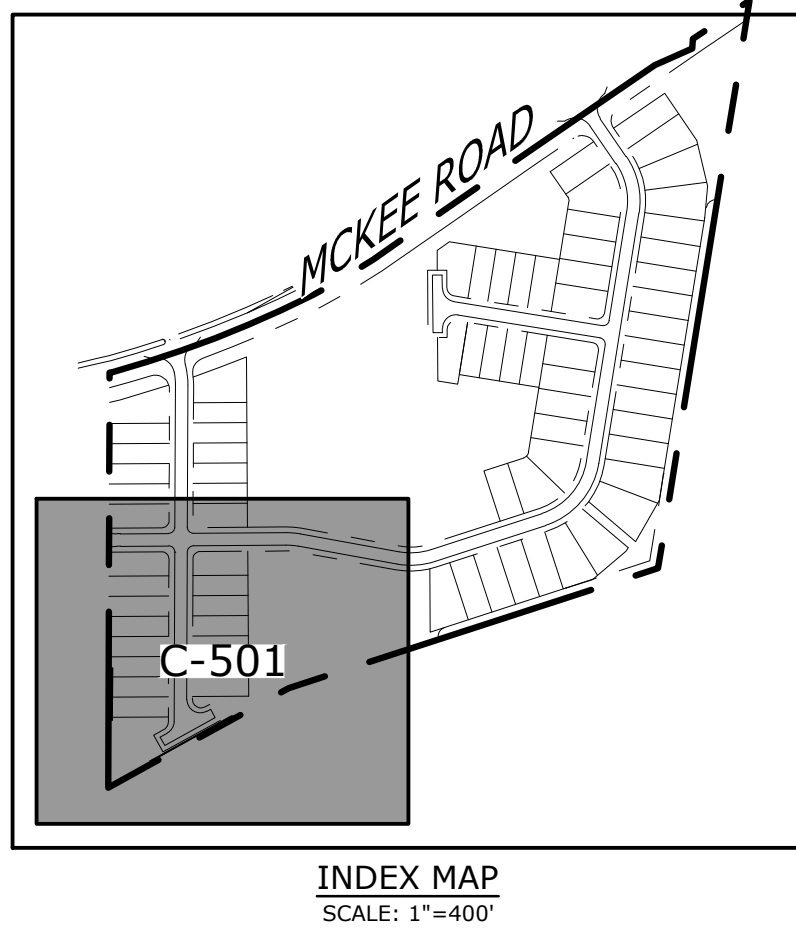
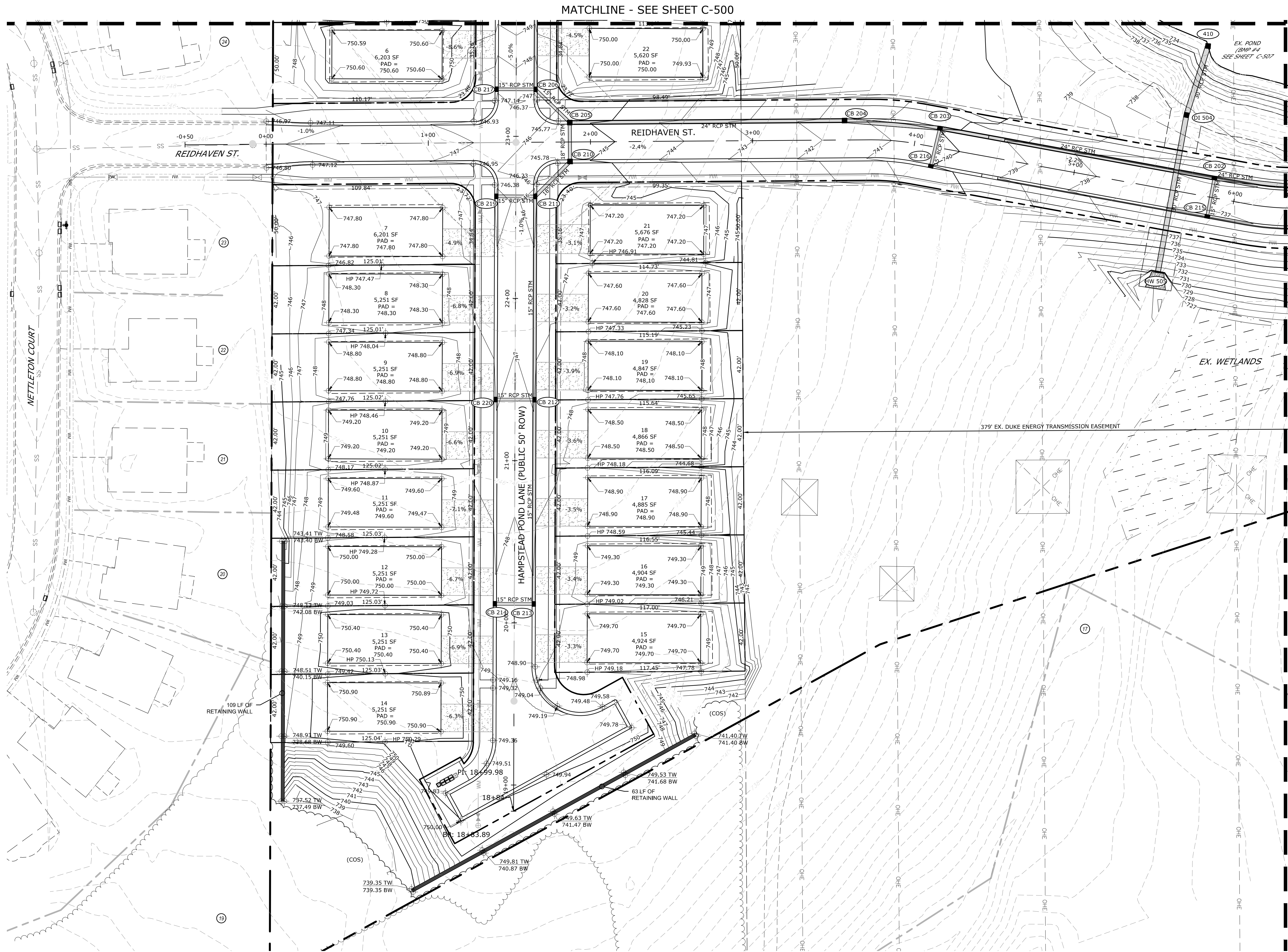


ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT # : CAMB17001
SHEET TITLE

GRADING PLAN
SHEET NUMBER

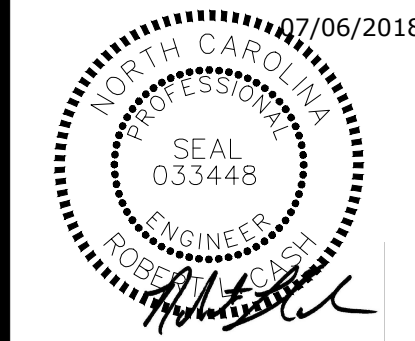
C-500





GRADING PLAN
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

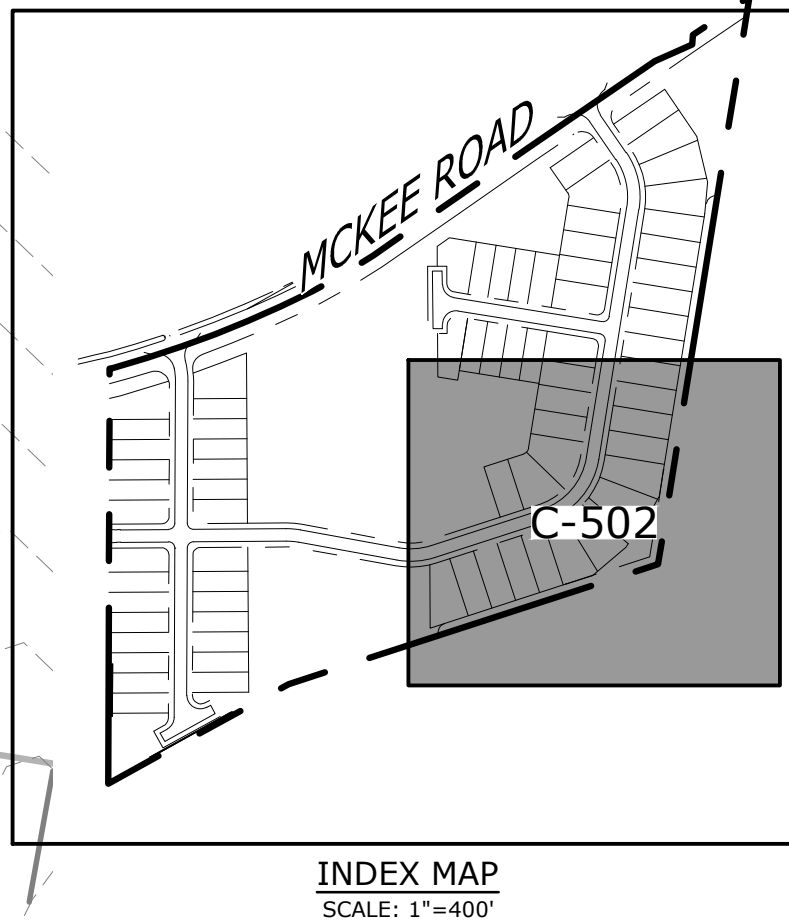
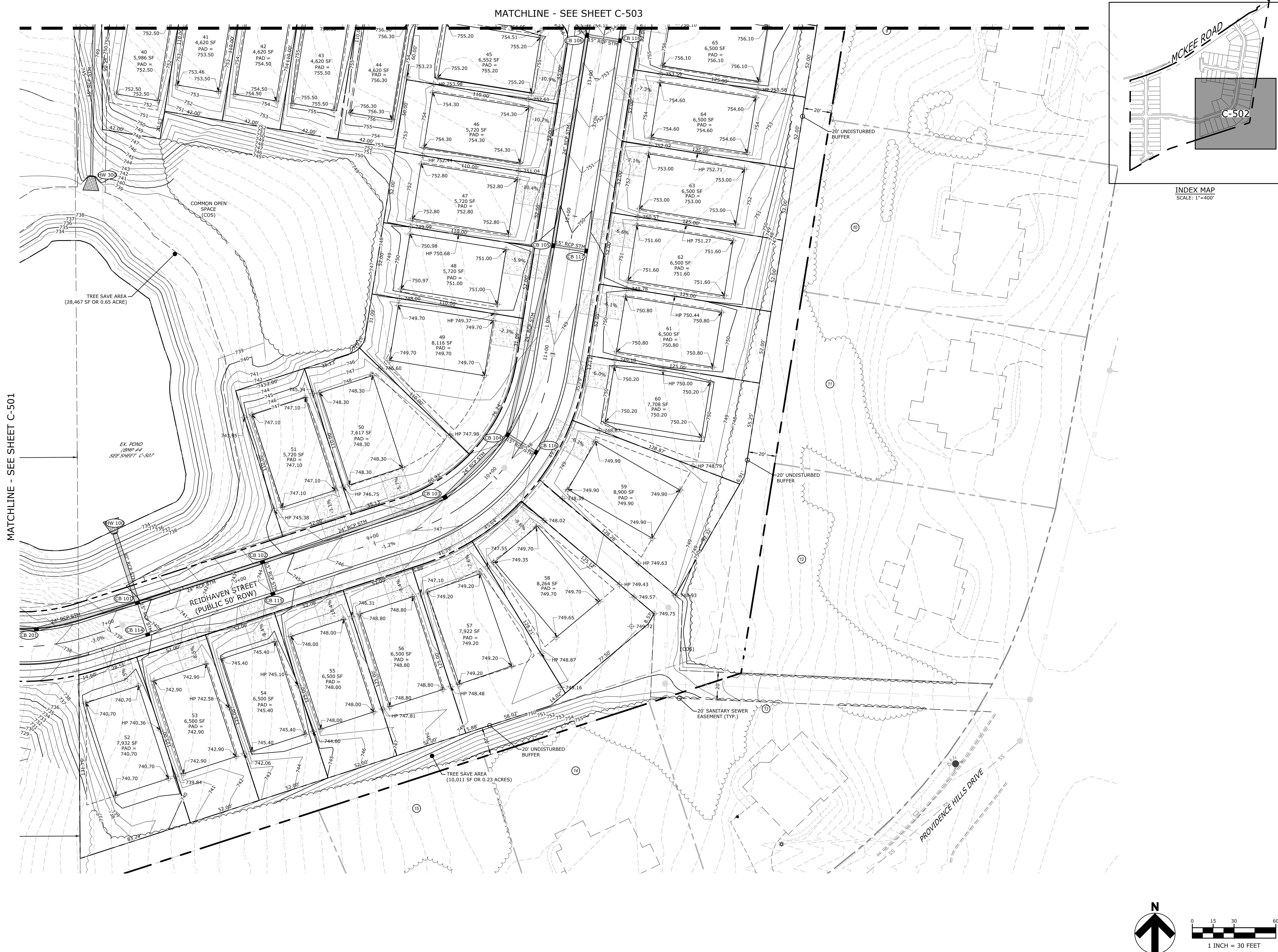
#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE



ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001
SHEET TITLE

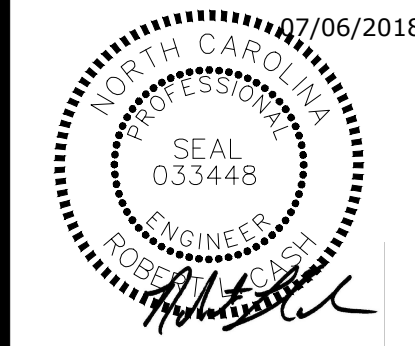
GRADING PLAN
SHEET NUMBER

C-501



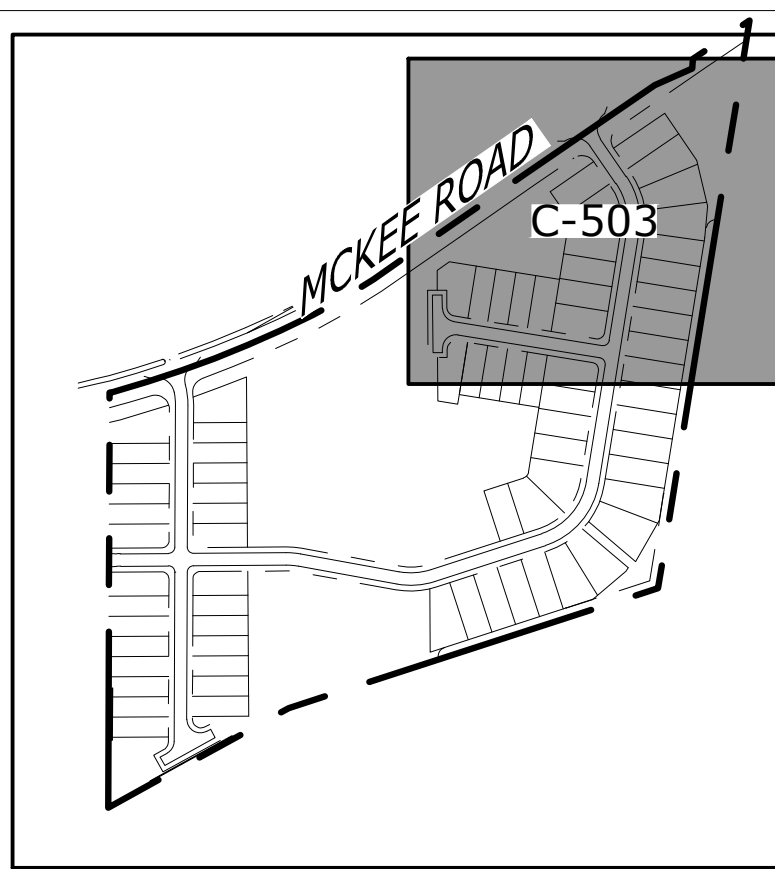
GRADING PLAN
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

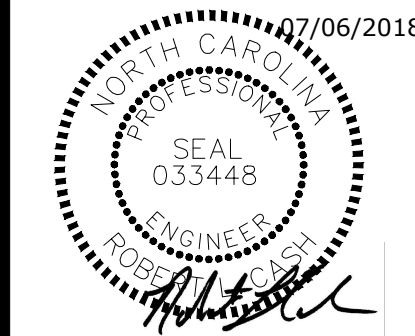
SHEET TITLE
GRADING PLAN
SHEET NUMBER
C-502



NOTE:
CONTRACTOR TO SOFT DIG THE WATER LINE FOR EXACT LOCATION AND DEPTH BEFORE CONSTRUCTION AND GRADING OF MCKEE ROAD WIDENING AND DITCH.

GRADING PLAN
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

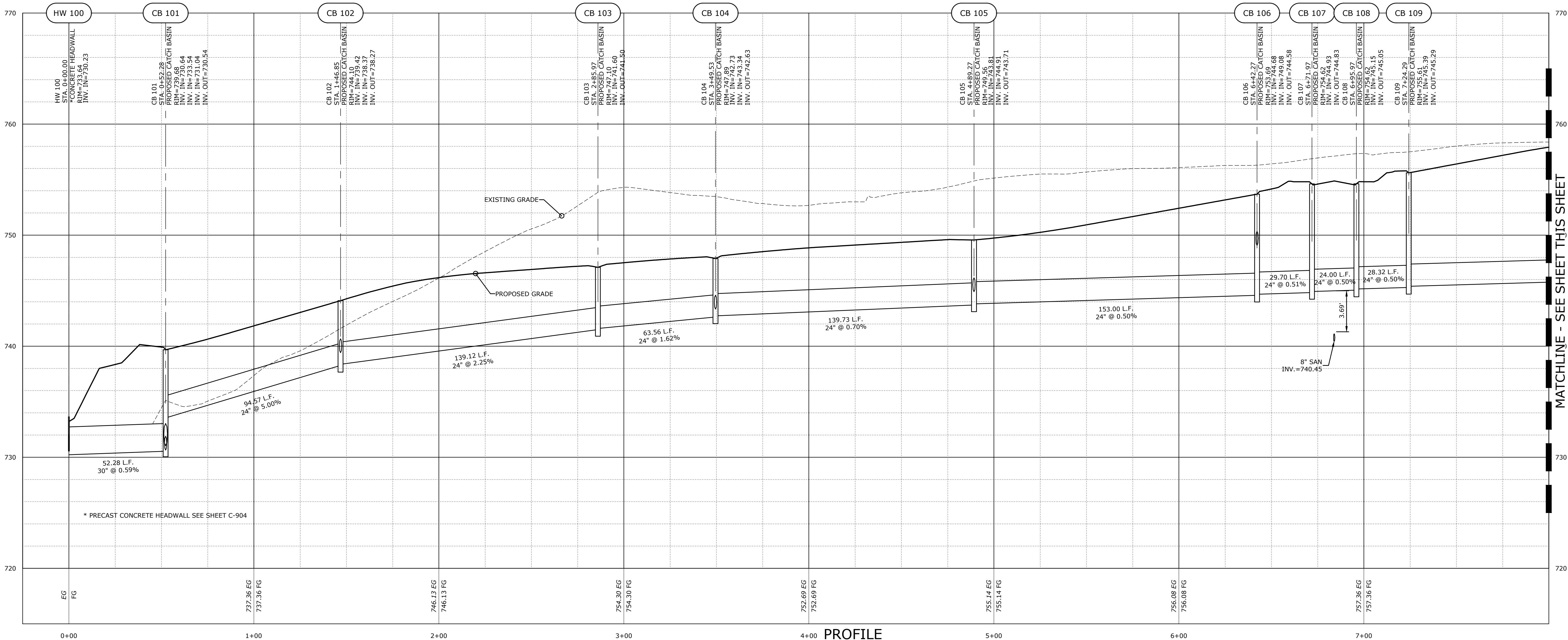


ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

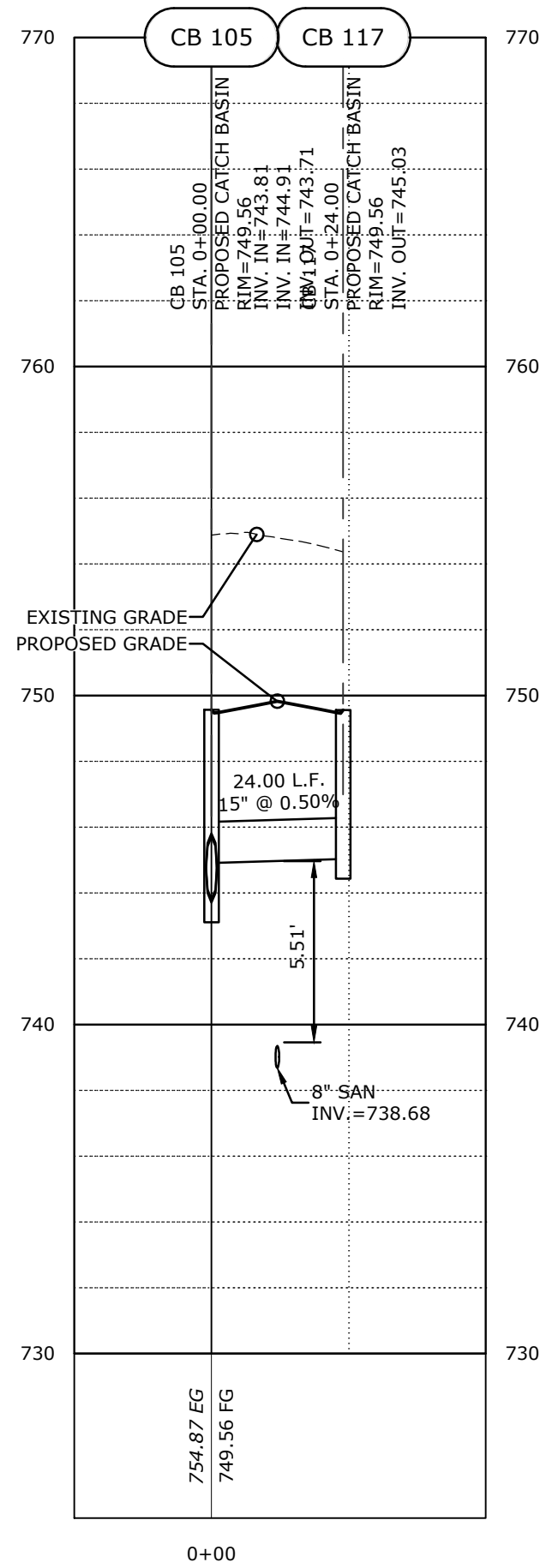
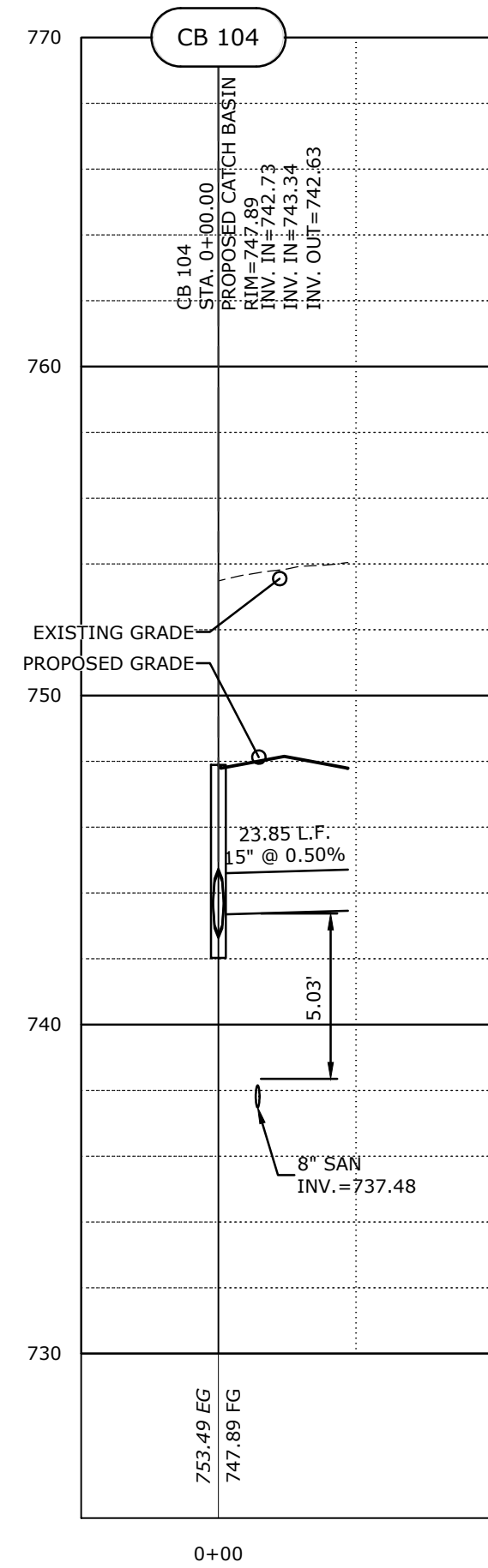
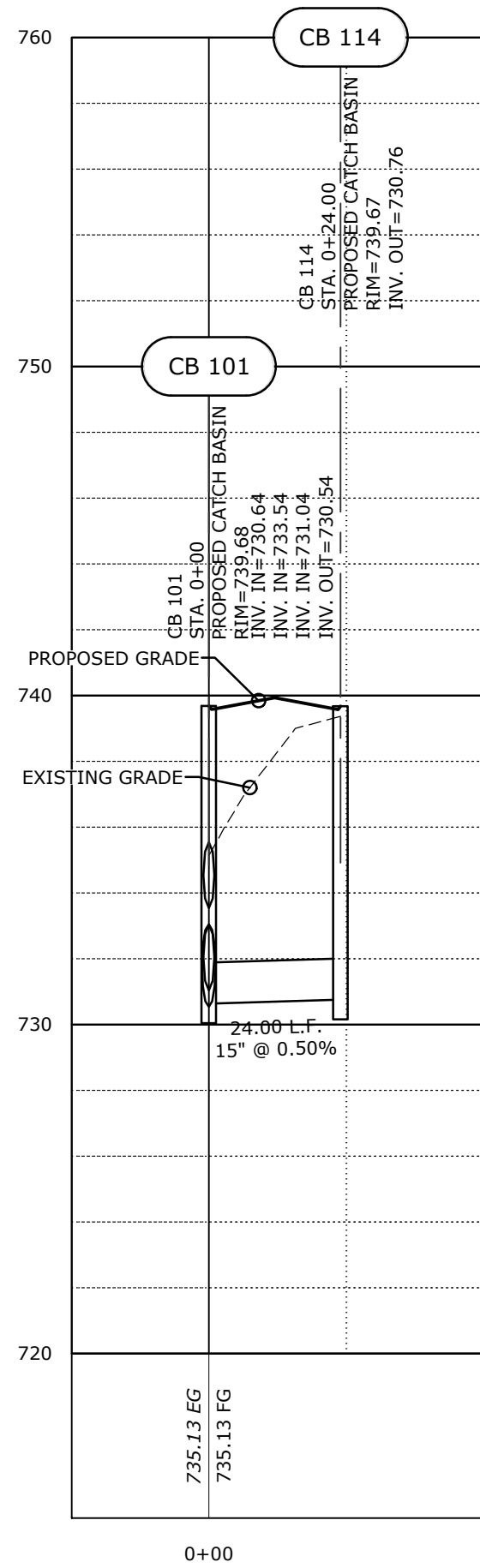
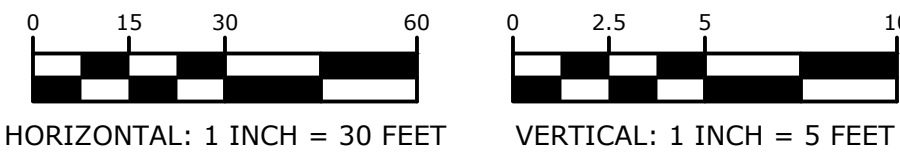
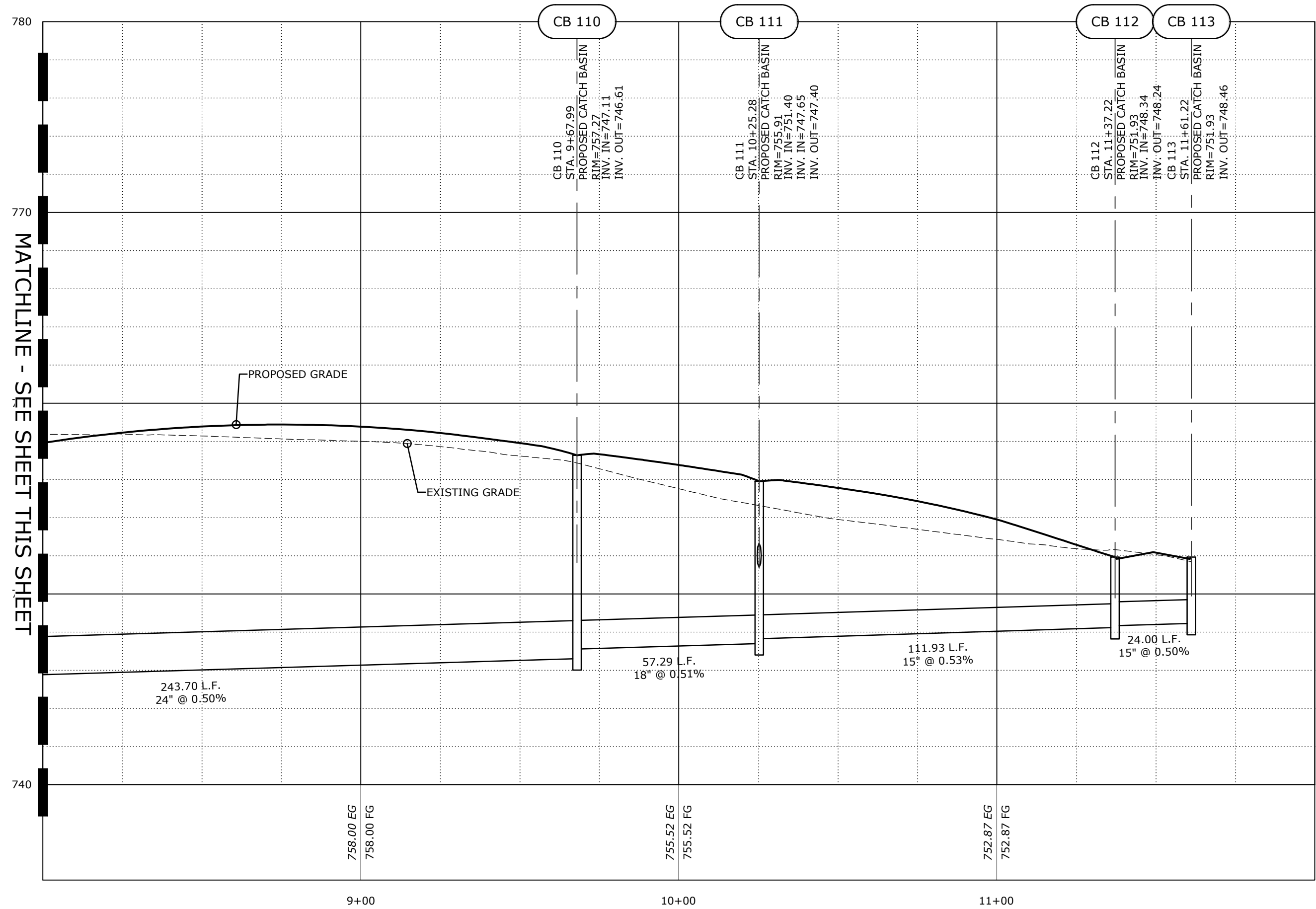
SHEET TITLE

GRADING PLAN
SHEET NUMBER

C-503

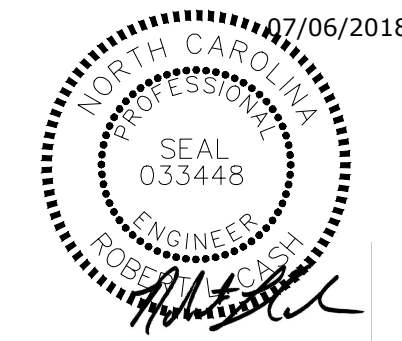


MATCHLINE - SEE SHEET THIS SHEET



STORM SEWER PROFILES
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

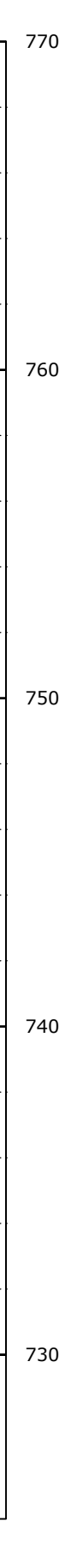
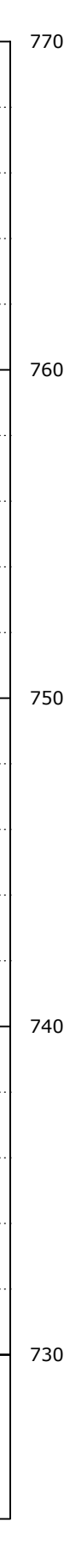
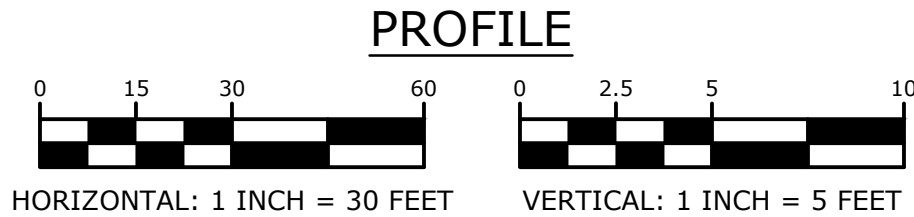


ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

SHEET TITLE
STORM SEWER
PROFILES
SHEET NUMBER

C-504

Plot Stamp: 7/12/2018 2:17:16 PM - Shane Finn

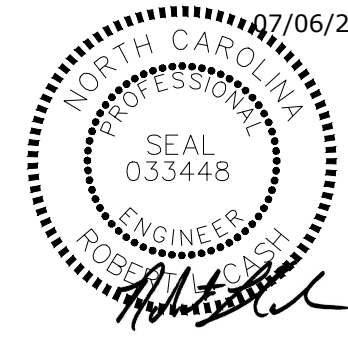


STORM SEWER PROFILES



CHARLOTTE
9800 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927-9700 www.cardno.com

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



ROBERT L. CASH, P.E.
NC LICENSE No. 03344

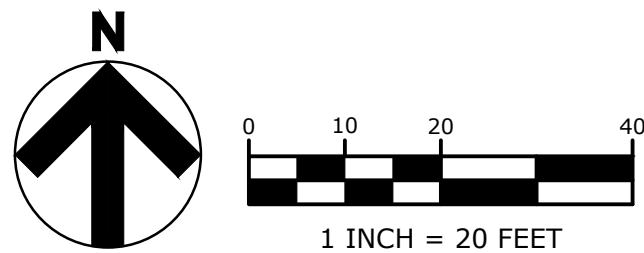
DATE	07/06/2018
DRAWN	MAH
DESIGNED	ANB
CHECKED	RLC
PROJECT #	CAMB17001

SHEET TITLE

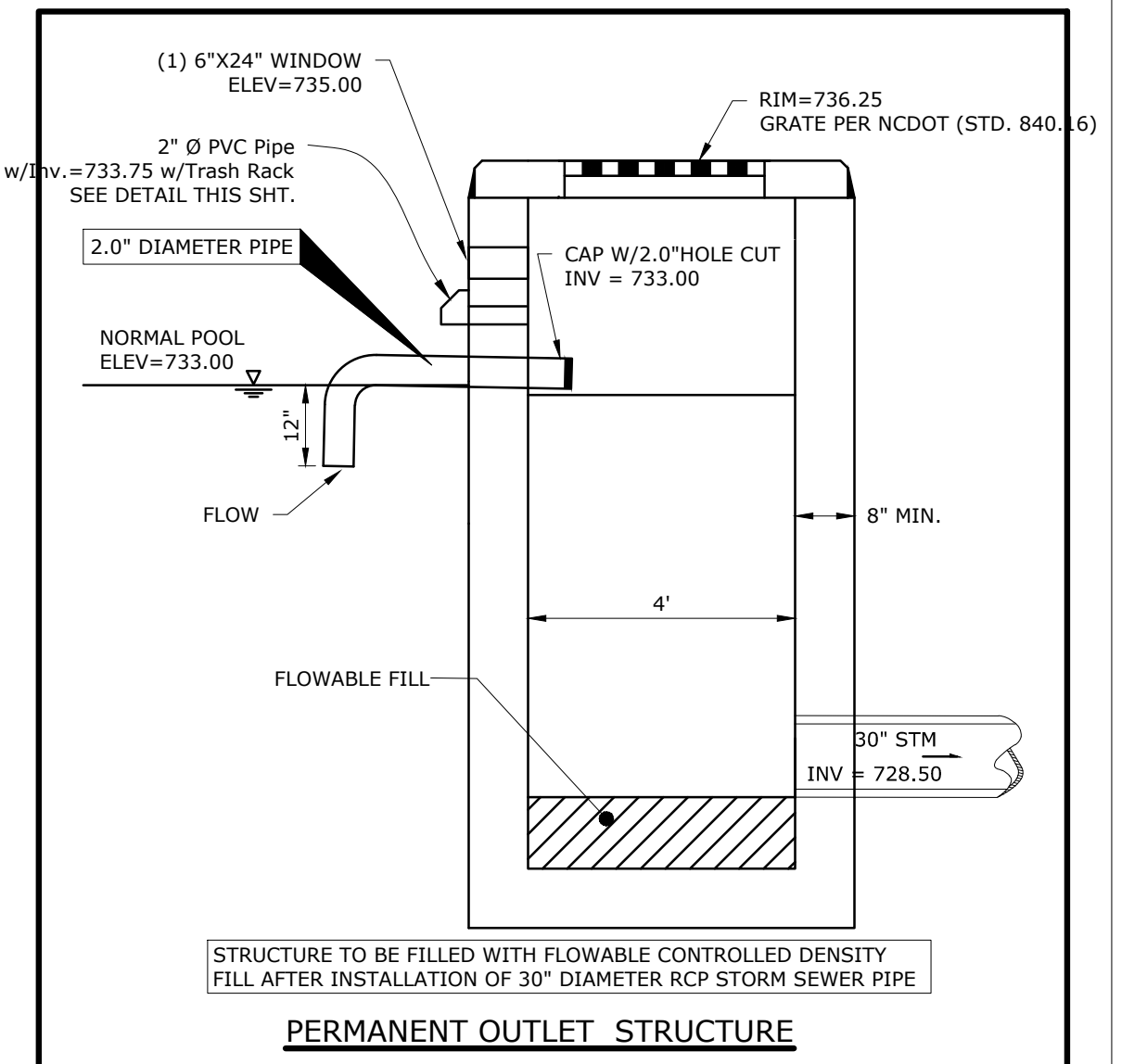
STORM SEWER PROFILES

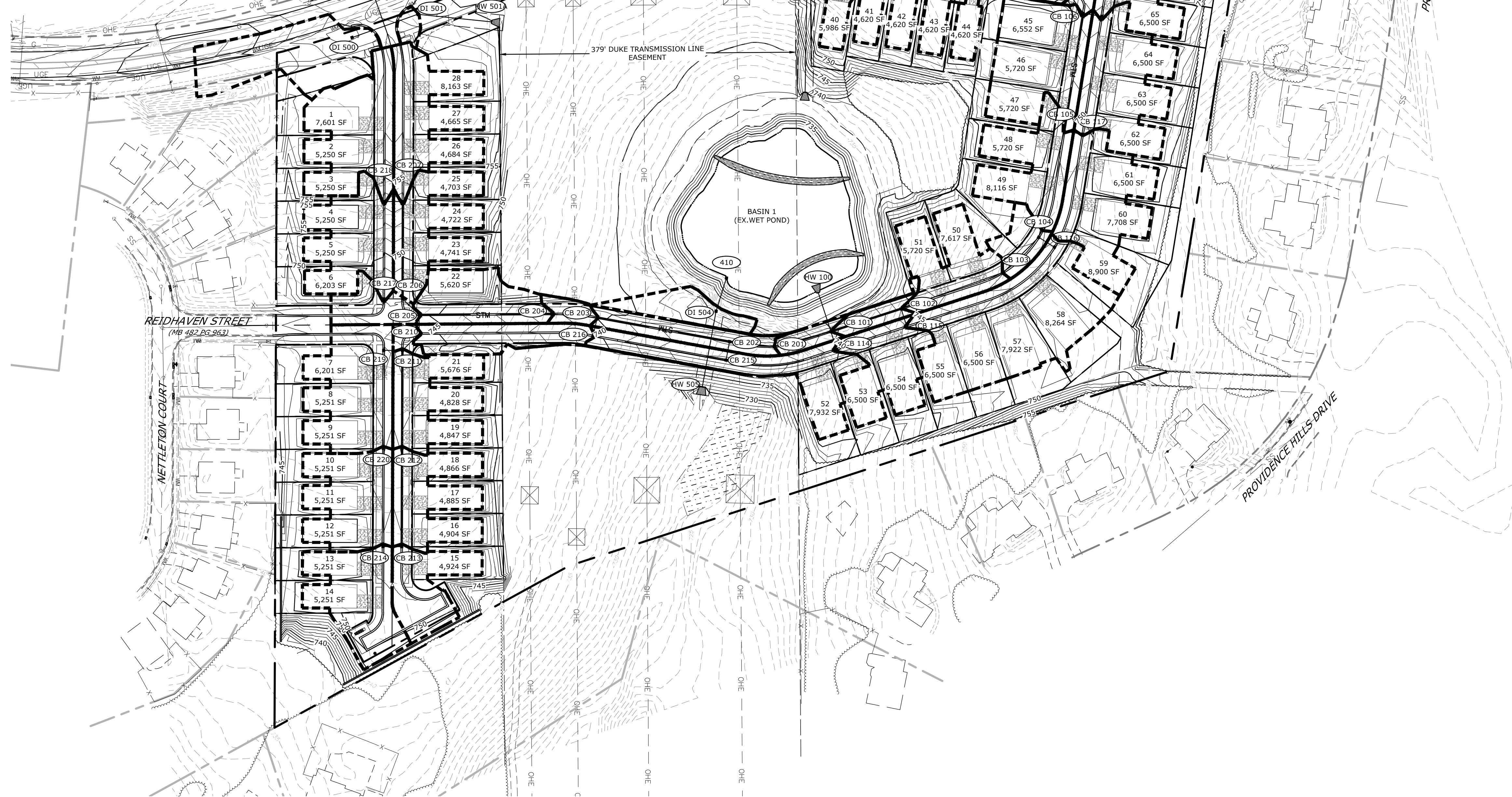
SHEET NUMBER

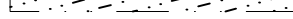
C-505



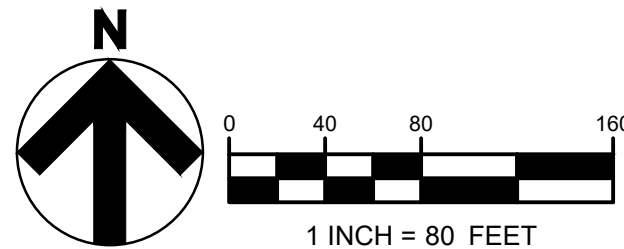
1. AFTER EVERY SIGNIFICANT RUNOFF PRODUCING RAINFALL EVENT AND AT LEAST MONTHLY:
 - A) INSPECT THE WET DETENTION BASIN SYSTEM FOR SEDIMENT ACCUMULATION, EROSION, TRASH ACCUMULATION, VEGETATED COVER, AND GENERAL CONDITION.
 - B) CHECK AND CLEAR THE OFFICE OF ANY OBSTRUCTIONS SUCH THAT THE DRAIN DOWN OF THE TEMPORARY POOL OCCURS WITHIN 2 TO 5 DAYS AS DESIGNED.
2. REPAIR ERODED AREAS IMMEDIATELY. RE-SEED THE EMBANKMENT AS NECESSARY TO MAINTAIN GOOD VEGETATIVE COVER. MOO VEGETATIVE COVER ON EMBANKMENT TO MAINTAIN A MAXIMUM HEIGHT OF SIX INCHES, REMOVE TRASH AS NEEDED.
3. INSPECT AND REPAIR THE COLLECTION SYSTEM (I.E. CATCH BASINS, PIPES, RIPRAP, ETC.) QUARTERLY TO MAINTAIN PROPER FUNCTIONING.
4. REMOVE WOODY VEGETATION NOT PART OF THE APPROVED PLAN ALONG THE DAM EMBANKMENT.
5. REMOVE INVASIVE AND DEAD VEGETATION ON THE LITTORAL SHELF AND REPLANT AS NECESSARY.
6. REMOVE ACCUMULATED SEDIMENT FROM THE WET DETENTION BASIN SYSTEM SEMIANNUALLY OR WHEN THE DEPTH IS REDUCED TO 75% OF THE ORIGINAL DESIGN DEPTH. SEDIMENT REMOVAL SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER AND SHALL BE HANDLED IN A MANNER THAT WILL NOT ADVERSELY IMPACT WATER QUALITY (I.E. STOCKPILING NEAR A WET DETENTION BASIN OR STREAM, ETC.).
7. PERFORM ANNUAL INSPECTION OF THE POND (ANNUAL INSPECTION REPORTS TO BE KEPT BY THE OWNER). PRIOR TO INSPECTION NOTIFICATION MUST BE GIVEN TO STORM WATER SERVICES.
8. FILL EMBANKMENTS SHALL BE FORMED OF SUITABLE MATERIAL PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED MORE THAN SIX (6) INCHES IN DEPTH FOR THE FULL WIDTH OF THE CROSS-SECTION, INCLUDING THE WIDTH OF THE SLOPE AREA. NO STUMPS, TREES, BRUSH, RUBBISH OR OTHER UNSUITABLE MATERIALS OR SUBSTANCES SHALL BE PLACED IN THE EMBANKMENT. EACH SUCCESSIVE SIX (6) INCH LAYER SHALL BE THOROUGHLY COMPACTED BY THE SHEEPSFOOT TAMPING ROLLER, 10-TON POWER ROLLER, PNEUMATIC-TIRED ROLLER, OR OTHER METHODS APPROVED BY THE CIVIL ENGINEER. EMBANKMENTS OVER 40' AROUND ALL PIPE CULVERTS SHALL BE OF SELECT MATERIAL, PLACED AND THOROUGHLY TAMPED AND COMPACTED AS DIRECTED BY THE TOWN/COUNTY ENGINEER OR HIS REPRESENTATIVE.
9. POND EMBANKMENTS SHALL BE INSTALLED IN THIS SAME MANNER AND SHALL BE COMPACTED TO MEET A DENSITY OF 95% STANDARD PROCTOR TEST.

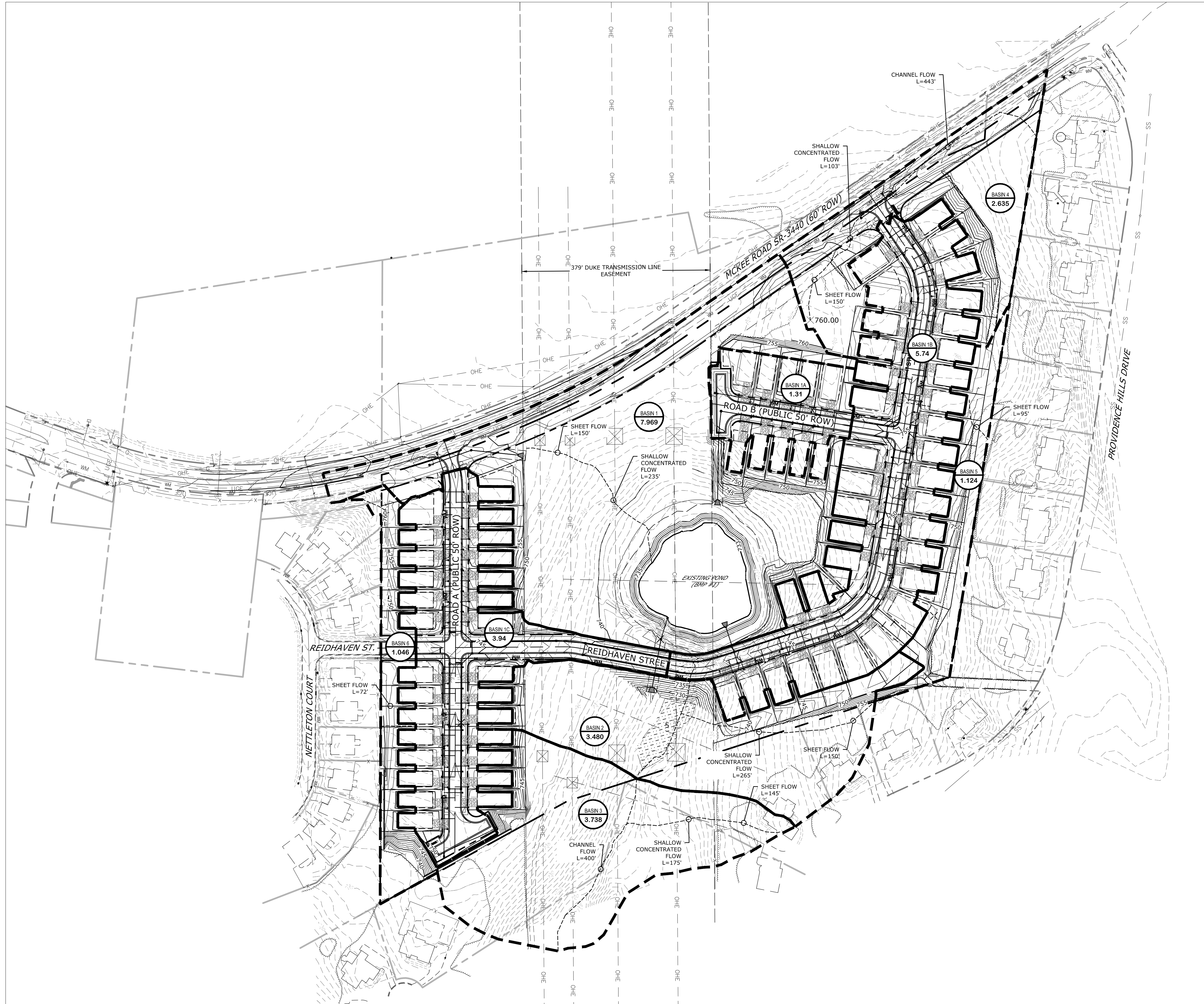




LEGEND	
	PROPERTY LINE
	ADJACENT PARCEL
	EASEMENT
	RIGHT OF WAY
	BACK OF CURB (BC)
	EDGE OF PAVEMENT (EP)
	CENTER LINE OF PAVEMENT
	CONCRETE SIDEWALK
	PARCEL LINE
	SETBACK LINE
	STORMWATER EASEMENT
	SANITARY SEWER EASEMENT
	LANDSCAPE BUFFER
	TREELINE
	STREAM / CREEK
	WETLANDS
	STORM SEWER TRIBUTARY AREA

STRUCTURE ID	AREA (AC)
CB 101	0.061
CB 102	0.253
CB 103	0.088
CB 104	0.277
CB 105	0.390
CB 106	0.035
CB 107	0.043
CB 108	0.085
CB 109	0.337
CB 110	0.169
CB 111	0.117
CB 112	0.236
CB 113	0.270
CB 114	0.247
CB 115	0.654
CB 116	0.381
CB 117	0.385
CB 118	0.506
CB 119	0.448
CB 201	0.049
CB 202	0.142
CB 203	0.043
CB 204	0.222
CB 205	0.106
CB 206	0.290
CB 207	0.327
CB 208	0.000
CB 209	0.000
CB 210	0.028
CB 211	0.275
CB 212	0.274
CB 213	0.197
CB 214	0.301
CB 215	0.305
CB 216	0.171
CB 217	0.307
CB 218	0.366
CB 219	0.370
CB 220	0.302
CB 301	0.419
CB 302	0.274
CB 303	0.099
CB 304	0.177
CB 305	0.338
DI 500	0.365
DI 501	0.026
FES 502	0.701
DI 504	0.124

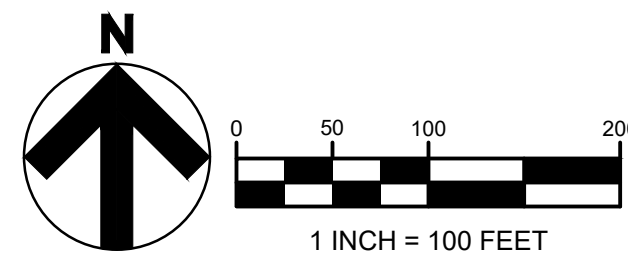


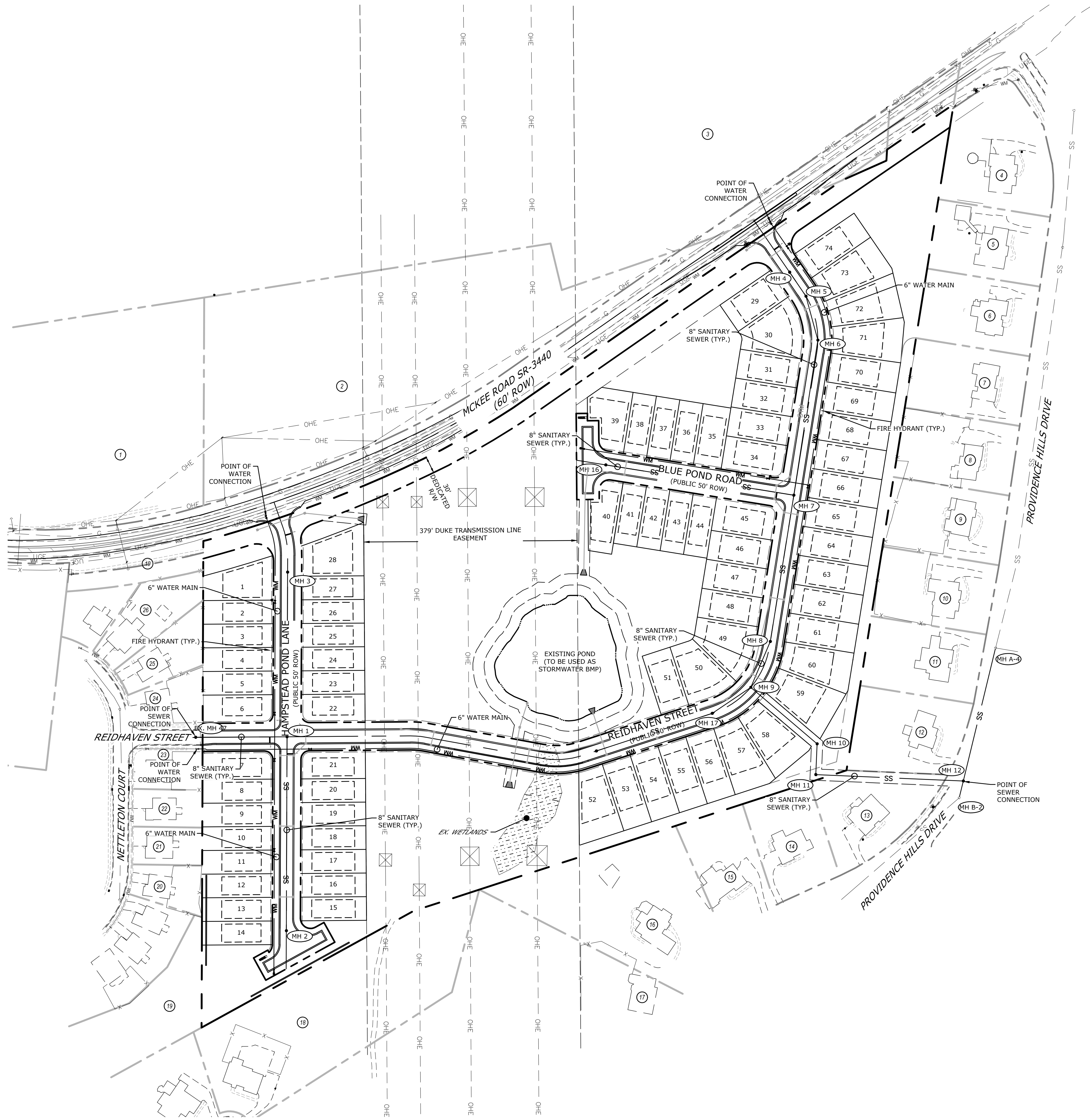


LEGEND	
	PROPERTY LINE
	ADJACENT PARCEL
	EASEMENT
	RIGHT OF WAY
	BACK OF CURB (BC)
	EDGE OF PAVEMENT (EP)
	CENTER LINE OF PAVEMENT
	CONCRETE SIDEWALK
	PARCEL LINE
	SETBACK LINE
	STORMWATER EASEMENT
	SANITARY SEWER EASEMENT
	LANDSCAPE BUFFER
	TREELINE
	STREAM / CREEK
	WETLANDS
	BASIN LABEL DRAINAGE AREA (AC)
	DRAINAGE AREA BOUNDARY

PCCO SUMMARY		
Original Parcel ID Number(s):	23121168	
Development Type:	Single-Family	
Subject to PCCO? Y/N	Y	
If NO, why?		
Watershed:	Central Catawba	
Disturbed Area (ac):	20.3	
Site Area (ac):	25.5	
	DA#1	
Total on-site Drainage Area (ac):	24.64	
Existing Built-upon-area (SF):	10589	
Existing BUA to be removed (SF):	10589	
Existing BUA to remain (SF):	0	
Proposed New BUA (SF):	355335	
Proposed % BUA:	31.99	
Density (High / Low)	High	
Total Post-Project BUA for site:	342858	
Development or Redevelopment?	Development	
Natural Area Required (ac):		4.46
Natural Area provided, total (ac):		5.22
Undisturbed Treed Natural Area Preserved (ac):		2.18
Total stream buffer protected on-site (ac):	N/A	
Transit Station Area? Y/N	N	
Distressed Business District? Y/N	N	
Mitigation Type (if applicable)	N/A	
Natural Area mitigation? Y/N	N/A	
Buffer Mitigation? Y/N	N/A	
Total Phosphorous Mitigation? Y/N	N/A	

		
BMP Installation Table		
Wet Pond		
Project Name:	The Pond at McKee Glen	
Sequence ID:		
Surface Area (sq. ft.):	35956	
Drainage Area (acres):	18.959	
Land Use/Development Type:	<.25 Acres Residential	
Percent Built-Up/On Area:	31.99	
Permanent Pool Depth (ft.):	4	
Forebay Permanent Pool Depth (ft.):	4	
Flow Diverter Present (Y/N):	N	
Regulated By:	Post Construction Ordinance	
Treatment Effectiveness:	Optimal	
NC State Plane X (easting):	1486468.4807"	
NC State Plane Y (northing):	488913.3065'	





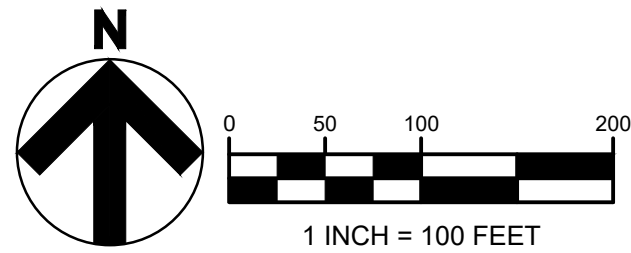
- | | |
|--|-------------------------|
| | PROPERTY LINE |
| | ADJACENT PARCEL |
| | EASEMENT |
| | RIGHT OF WAY |
| | BACK OF CURB (BC) |
| | EDGE OF PAVEMENT (EP) |
| | CENTER LINE OF PAVEMENT |
| | CONCRETE SIDEWALK |
| | PARCEL LINE |
| | STORMWATER EASEMENT |
| | SANITARY SEWER EASEMENT |
| | LANDSCAPE BUFFER |
| | TREELINE |
| | STREAM / CREEK |
| | WETLANDS |
| | RIPARIAN BUFFER |
| | DOMESTIC WATER LINE |
| | FIRE HYDRANT |
| | WATER METER |
| | WATER VALVE |
| | WATER REDUCER |
| | WATER BLOW OFF VALVE |
| | SANITARY SEWER LINE |
| | SANITARY SEWER MANHOLE |
| | SANITARY SEWER CLEANOUT |
| | STORM SEWER LINE |
| | STREET TREES |

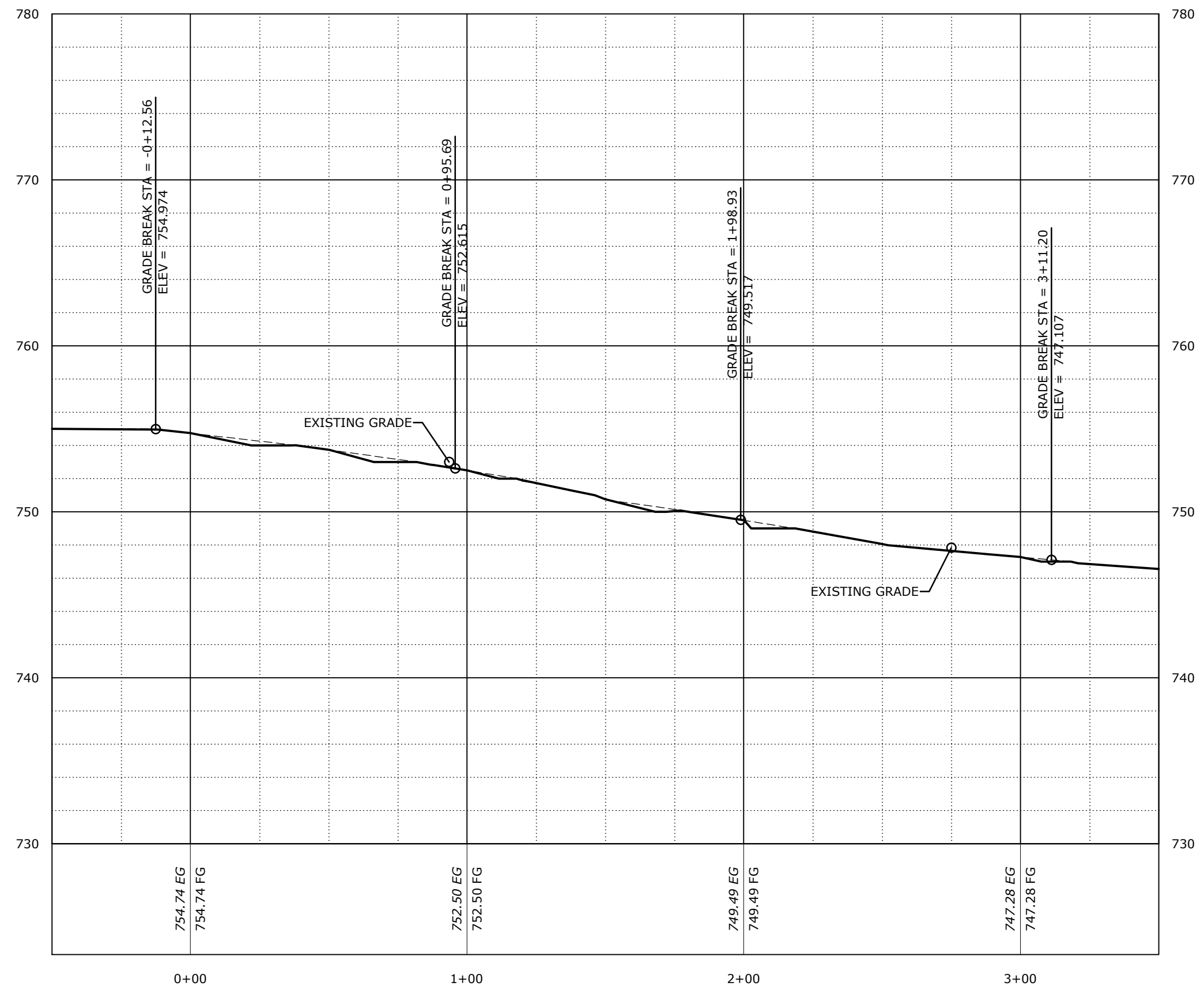
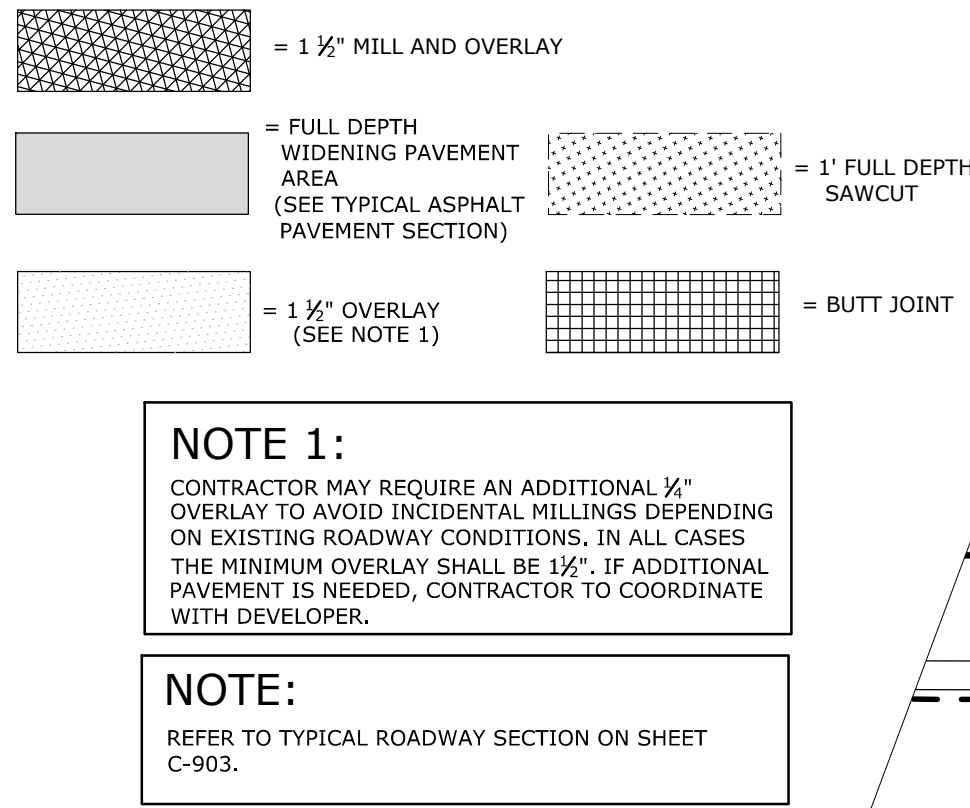
1. CONSTRUCTION SHALL BE:

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHARLOTTE WATER WATER AND SEWER STANDARDS AND SPECIFICATIONS.
2. ALL METER BOXES AND SEWER CLEANOUTS ARE REQUIRED TO BE WITHIN EASEMENT OR RIGHT OF WAY.
3. WATER METERS WILL NOT BE INSTALLED IF WATER METER BOXES, SEWER CLEAN-OUTS, VALVE BOXES OR THEIR APPURTENANCES ARE DAMAGED OR IMPROPERLY POSITIONED.
4. ALL WATER MAINS SHALL HAVE A MINIMUM OF THREE (3) FEET OF COVER.
5. FIRE HYDRANTS SHALL BE PLACED A MINIMUM DISTANCE OF SIX (6) FEET FROM THE BACK OF CURB AND SHALL HAVE A CLEAR SPACE OF THREE (3) FEET FROM ALL PERMANENT STRUCTURES.
6. DE-WATERING: THE CONTRACTOR SHALL AT ALL TIMES PROVIDE AND MAINTAIN EXHAUST PUMPS AND EQUIPMENT WITH WHICH TO REMOVE AND PROPERLY DISPOSE OF ANY AND ALL WATER ENTERING THE EXCAVATION OR OTHER PARTS OF THE WORK AREA AND KEEP ALL EXCAVATIONS DRY UNTIL SUCH TIME AS PIPE LAYING AND GRADING IS COMPLETED AND STRUCTURES TO BE BUILT THEREIN ARE COMPLETED.
7. NO WATER SHALL BE ALLOWED TO RISE ABOVE THE PIPE IN UNBACKFILLED TRENCHES NOR SHALL IT BE ALLOWED TO RISE OVER MASONRY UNTIL THE CONTRACTOR'S MOTOR HAS SET (MINIMUM 24 HOURS). ALL WATER RUMPED OR DRAINED FROM THE WORK AREA SHALL BE DISPOSED OF IN SUCH OF MANNER AS TO PREVENT SLOTTATION AND EROSION TO ADJACENT PROPERTY OR OTHER CONSTRUCTION.
8. ONE (1) ROLL OF MASTIC & SIX (6) INCH EXTERNAL WRAP SHALL BE INSTALLED ON EACH MANHOLE SECTION.
9. VERIFICATION HAS BEEN MADE BY CARDNO THAT EACH LOT IS CAPABLE OF HAVING GRAVITY SEWER SERVICE TO THE CENTER OF THE LOT AT THE FRONT SETBACK FOR THE FIRST FLOOR. BASEMENTS SHALL BE SERVICED VIA GRINDER PUMPS.
10. METER BOXES TO BE FORD STRETCH BOX NO. LVLV 241-233-NTN LESS INLET FLARE & NUT WITH A LOCKING LID. A MUELLER H-15074 FL. COPPER x CTS INSTANTITE COUPLING IS TO BE SCREWED ON THE INLET ANGLE VALVE. ON THE OUTLET SIDE OF THE BOX THE CONTRACTOR IS TO PROVIDE A ¾" MUELLER B-20200 BALL CURB STOP AND A D109-G 7 INCH DEEP TURF BOX.
11. REFER TO SHEET C-200 FOR ADJACENT PROPERTY OWNER INFORMATION.
12. UTILITIES ARE NOT COVERED UNDER THE DRIVEWAY PERMIT. ENCROACHMENT AGREEMENTS MUST BE OBTAINED PRIOR TO INSTALLATION OF ANY UTILITY WITHIN STATE RIGHT-OF-WAY.

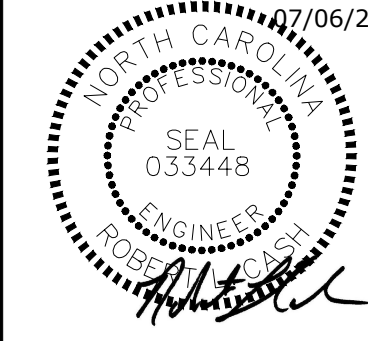
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE

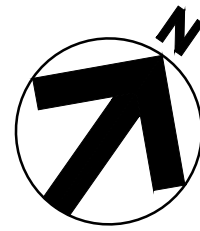
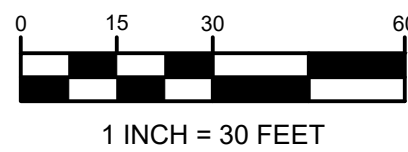
1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE MOST RECENT CHARLOTTE WATER SANITARY SEWER AND WATER SPECIFICATIONS AND STANDARD DETAILS.
2. CONTRACTOR SHALL CONTACT CHARLOTTE WATER PERSONNEL AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
3. ANY WORK OR TEST PERFORMED WITHOUT NOTIFICATION OR CONTACT WITH FIELD INSPECTORS SHALL BE INSTALLED AT THE CONTRACTORS RISK.
4. TREES SHALL BE PLANTED A MIN OF FIVE (5) FEET FROM WATER METER BOXES AND SANITARY SEWER CLEAUNOTS.





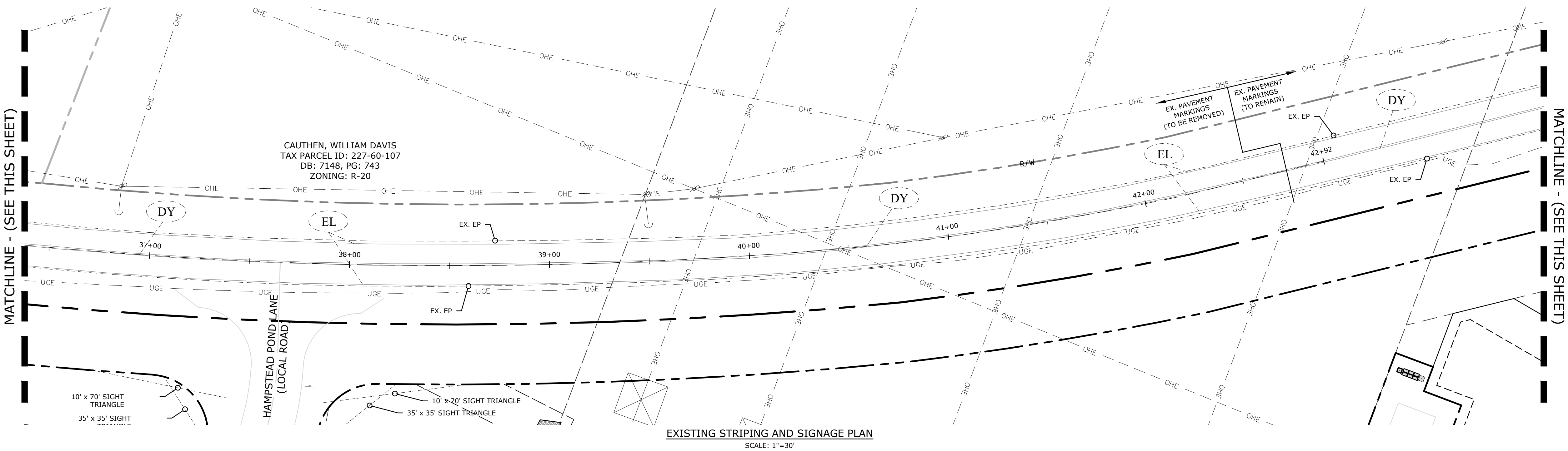
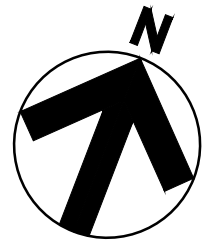
#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



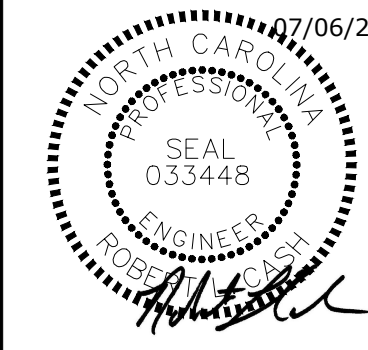


NOTES

1. RAISED PAVEMENT MARKERS SHALL BE INSTALLED PER NCDOT STANDARD DRAWING 1250.01, 1251.01, AND 1253.01.
2. ALL CONSTRUCTION SHALL CONFORM TO VILLAGE OF WESLEY CHAPEL AND NCDOT STANDARDS (ROAD WIDENING) AND SPECIFICATIONS.
3. SEE NCDOT STANDARD DETAILS #1205.01 (SHEETS 1 AND 2), 1205.02 (SHEETS 1 AND 2), 1205.04, 1205.05, AND 1205.09.



#	DATE	DESCRIPTION	BY
1.	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2.	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3.	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

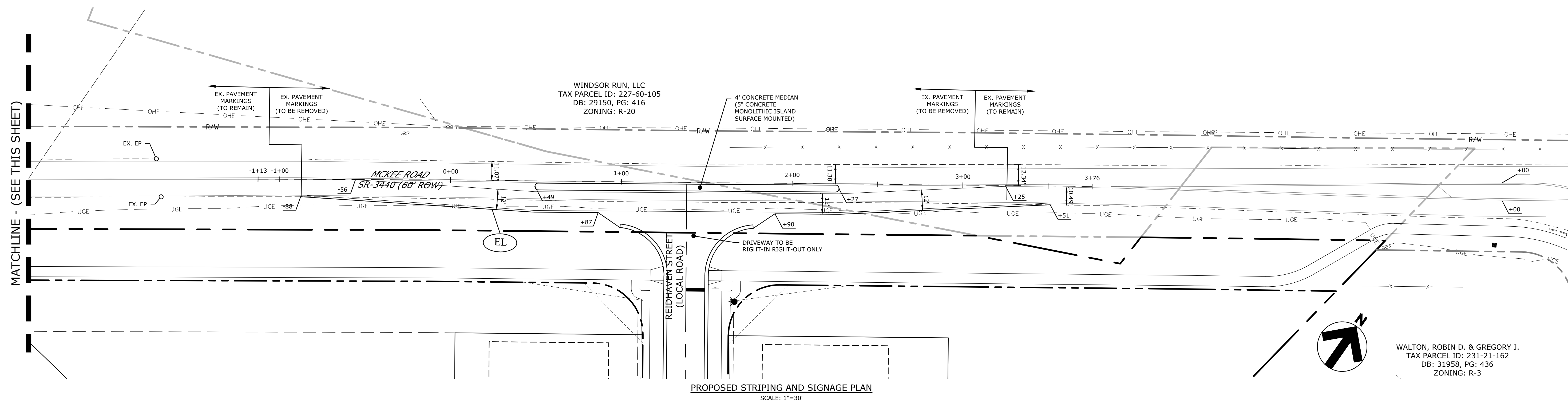


ROBERT L. CASH, P.E. NC LICENSE No. 033448	
DATE	07/06/2018
DRAWN	MAH
DESIGNED	ANB
CHECKED	RLC
PROJECT #	CAMB17001

SHEET TITLE
EXISTING MCKEE ROAD
SIGNAGE AND
STRIPING PLAN

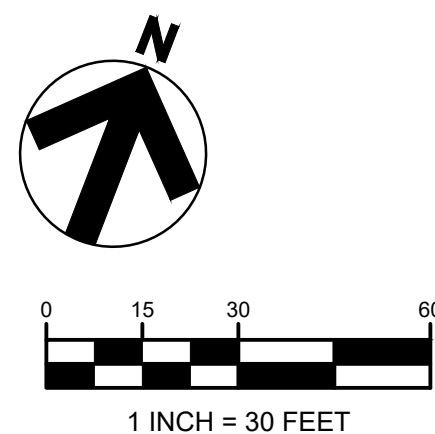
SHEET NUMBER

C-702



NOTES

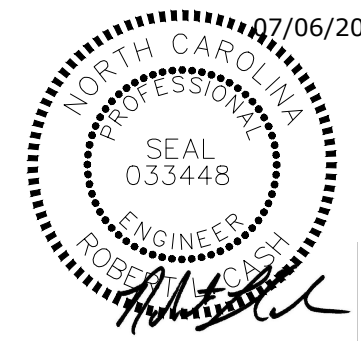
1. RAISED PAVEMENT MARKERS SHALL BE INSTALLED PER NCDOT STANDARD DRAWING 1250.01, 1251.01 AND 1253.01.
2. ALL CONSTRUCTION SHALL CONFORM TO VILLAGE OF WESLEY CHAPEL AND NCDOT STANDARDS (ROAD WIDENING) AND SPECIFICATIONS.
3. SEE NCDOT STANDARD DETAILS #1205.01 (SHEETS 1 AND 2), 1205.02 (SHEETS 1 AND 2), 1205.04, 1205.05, AND 1205.09.



CAMBRIDGE
PROPERTIES

PROPOSED MCKEE ROAD SIGNAGE AND STRIPING PLAN
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1.	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2.	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3.	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

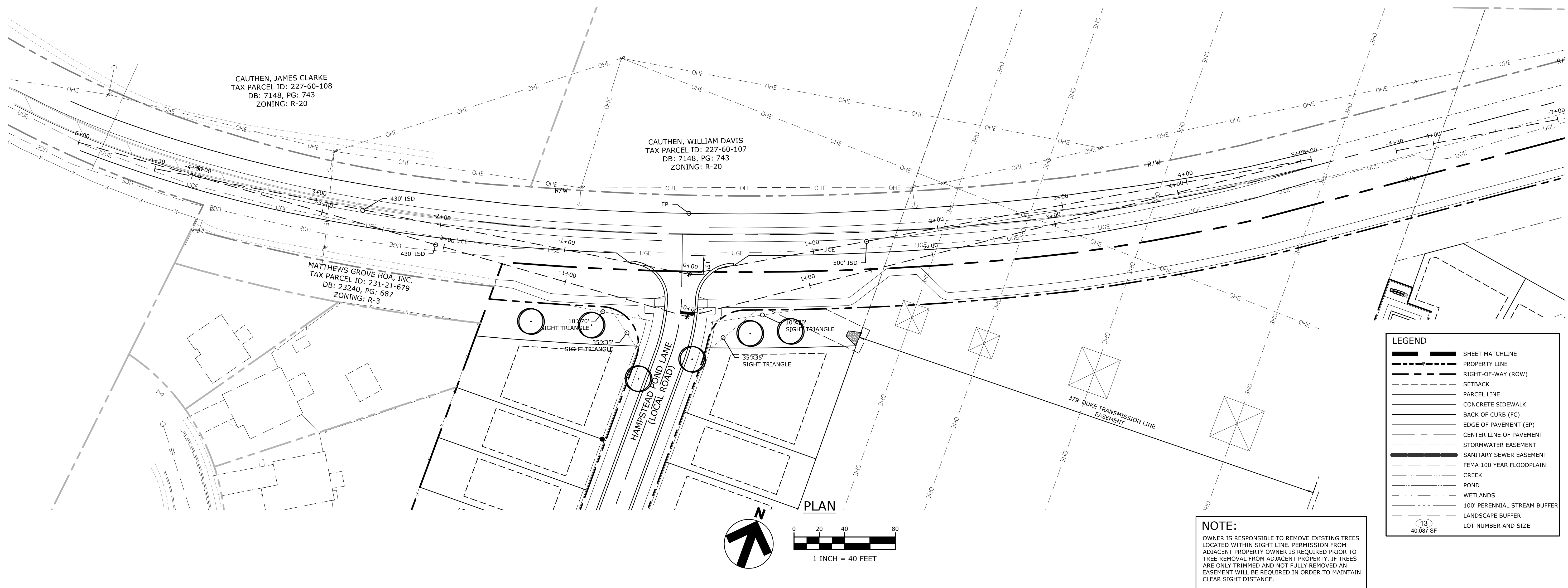


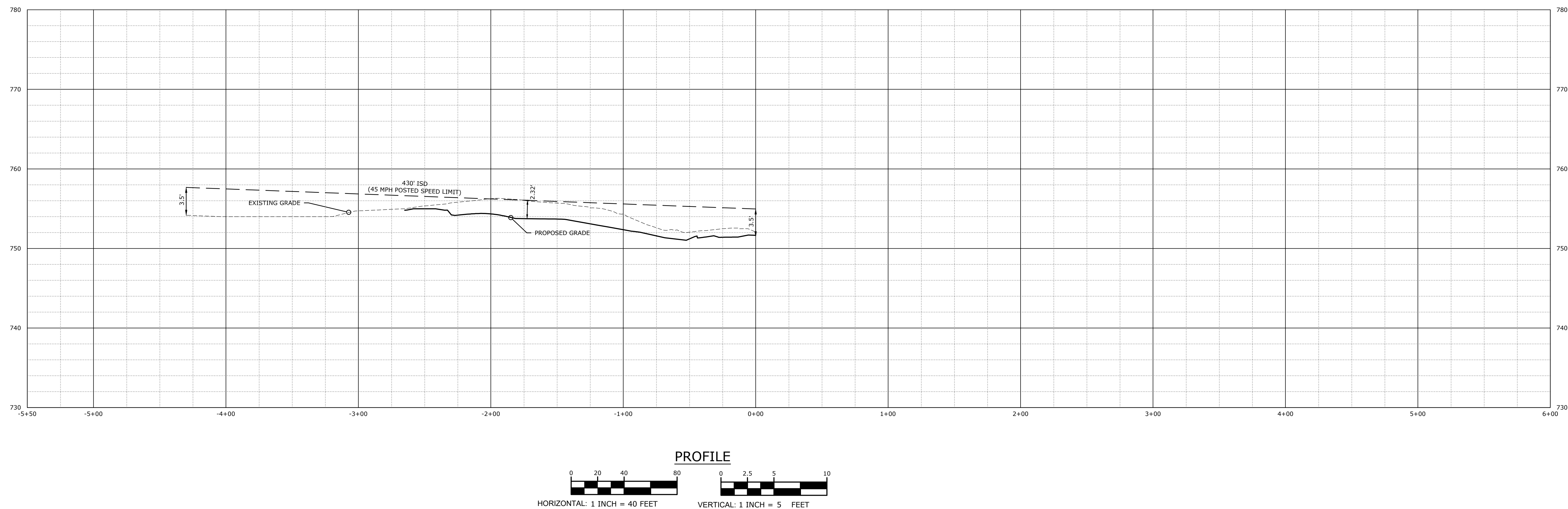
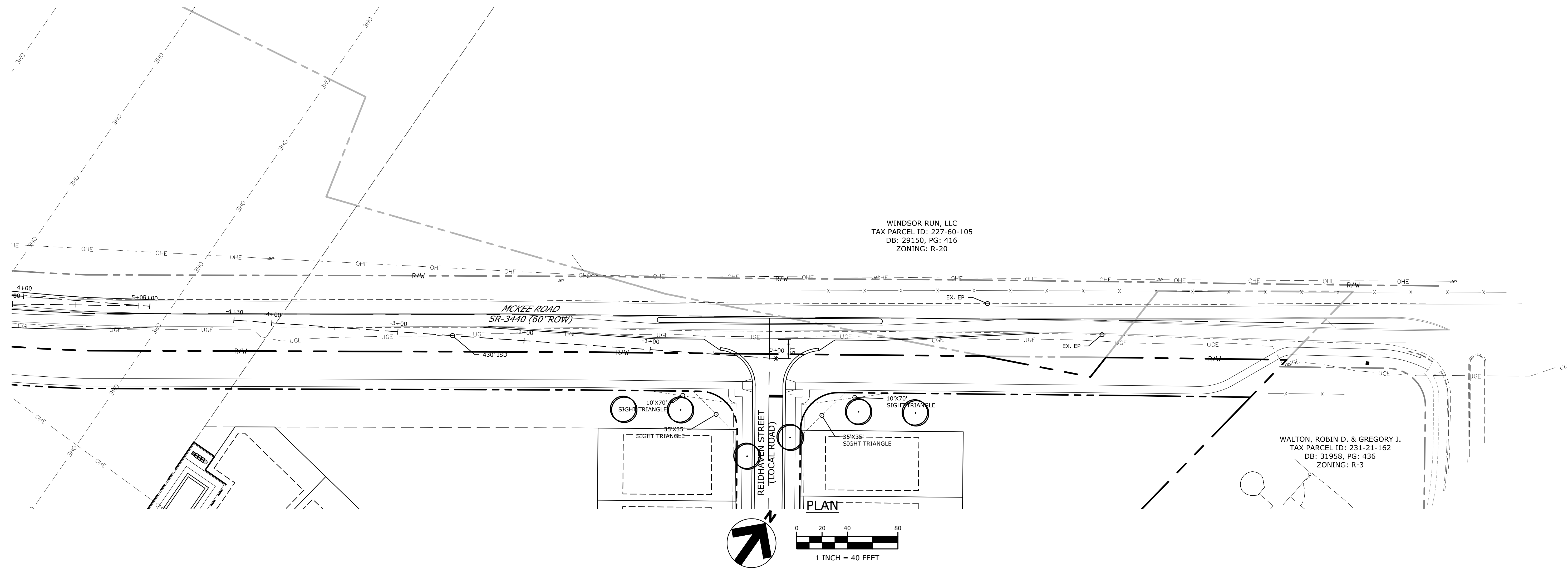
ROBERT L. CASH, P.E.	
NC LICENSE No. 033448	
DATE	07/06/2018
DRAWN	MAH
DESIGNED	ANB
CHECKED	RLC
PROJECT #	CAMB17001

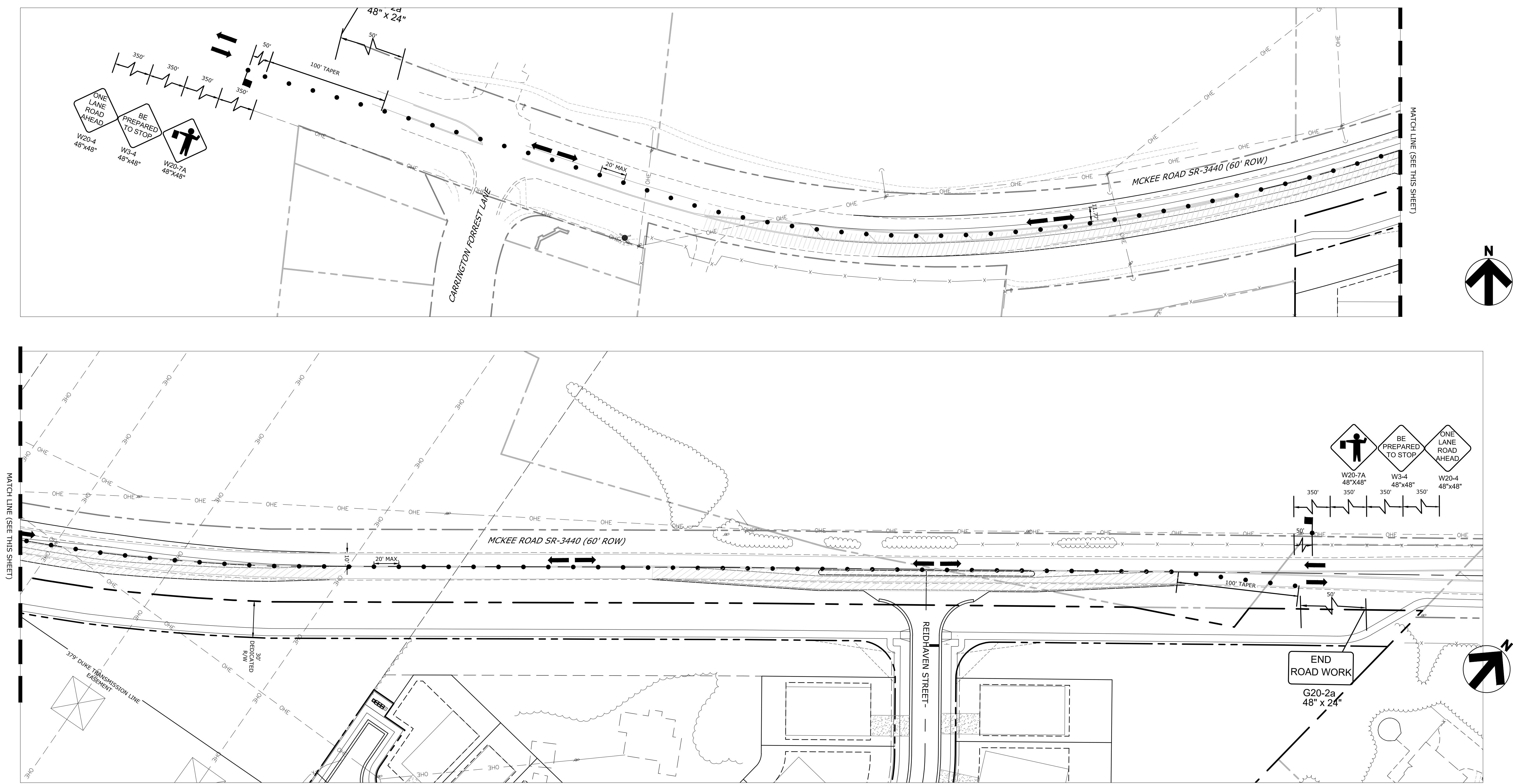
SHEET TITLE
PROPOSED MCKEE
ROAD SIGNAGE AND
STRIPING PLAN

SHEET NUMBER

C-703







GENERAL MAINTENANCE OF TRAFFIC NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" (CURRENT EDITION), AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD (NCSMUTCD) (CURRENT EDITION).
2. THE ROADWAY SHALL NOT BE RE-OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION. PERMANENT TRAFFIC CONTROL THAT IS NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.
4. THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT WHO WILL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THE PROJECT.
5. CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER AND THE INSPECTOR.
6. ACCESS TO ALL ADJOINING PROPERTIES TO BE MAINTAINED AT ALL TIMES.
7. MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES INCLUDING DRUMS, SIGNS, BARRICADES, MESSAGE BOARDS, DETOUR SIGNAGE, ETC., SHALL BE THE CONTRACTORS RESPONSIBILITY.

NOTES:

1. WORK SHALL ONLY BE CONDUCTED DURING NON-PEAK HOURS. DURING CONTRACTOR'S NON-WORKING HOURS ALL LANES SHALL BE OPEN TO TRAFFIC. DURING CONTRACTOR'S NON-WORKING HOURS THE DROP-OFF WITHIN THE WORK ZONE SHALL BE BACKFILLED OR SECURELY PLATTED TO ACCOMPLISH THIS. CONTRACTOR SHALL CONTACT NCDOT PRIOR TO CONSTRUCTION FOR EXTENTS OF GRINDING OF EX. STRIPPING AND PLACEMENT OF TEMPORARY YELLOW LANE LINES. ONCE TEMPORARY YELLOW LANE LINES ARE IN, TEMPORARY LANE CLOSURE, CONCRETE MEDIAN AND ADDITIONAL PAVEMENT WORK MAY BEGIN. CONTRACTOR TO ONLY GRIND THE AMOUNT OF STRIPPING AND PLACE TEMPORARY YELLOW LANE LINES THAT CAN BE COMPLETED WITH 1-WAY TRAFFIC WITH WORK ZONE AS DEPICTED ON THIS PLAN. THIS SECTION SHALL BE AS PER NCDOT STD 1101.02 SHEET 1 OF 15.
2. ADVANCED WARNING SIGNS SHALL BE PLACED IN A VISIBLE LOCATION NOT IN CONFLICT WITH ANY EXISTING SIGN, DRIVE OR INTERSECTION.
3. EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
4. ALL CONSTRUCTION SHALL CONFORM TO VILLAGE OF WESLEY CHAPEL AND NCDOT STANDARDS AND SPECIFICATIONS.
5. CONTRACTOR SHALL COORDINATE WITH NCDOT INSPECTOR FOR ALL TRAFFIC CONTROL. FIELD MODIFICATIONS MAY BE REQUIRED.

LEGEND

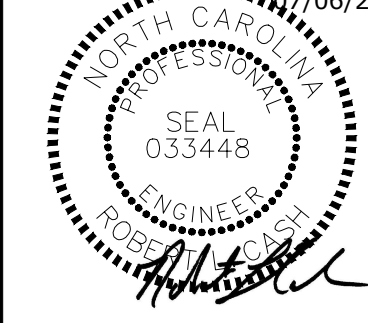
- DRUM (NCDOT 1130.01)
- FLAGGER
- AREA OF CONCRETE
- WORK AREA
- TRAFFIC FLOW ARROW
- EXISTING RIGHT-OF-WAY
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT

0 20 40 80
1 INCH = 40 FEET



TRAFFIC CONTROL PHASE 1 THE POND AT MCKEE GLEN CAMBRIDGE PROPERTIES CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE
	07/06/2018	



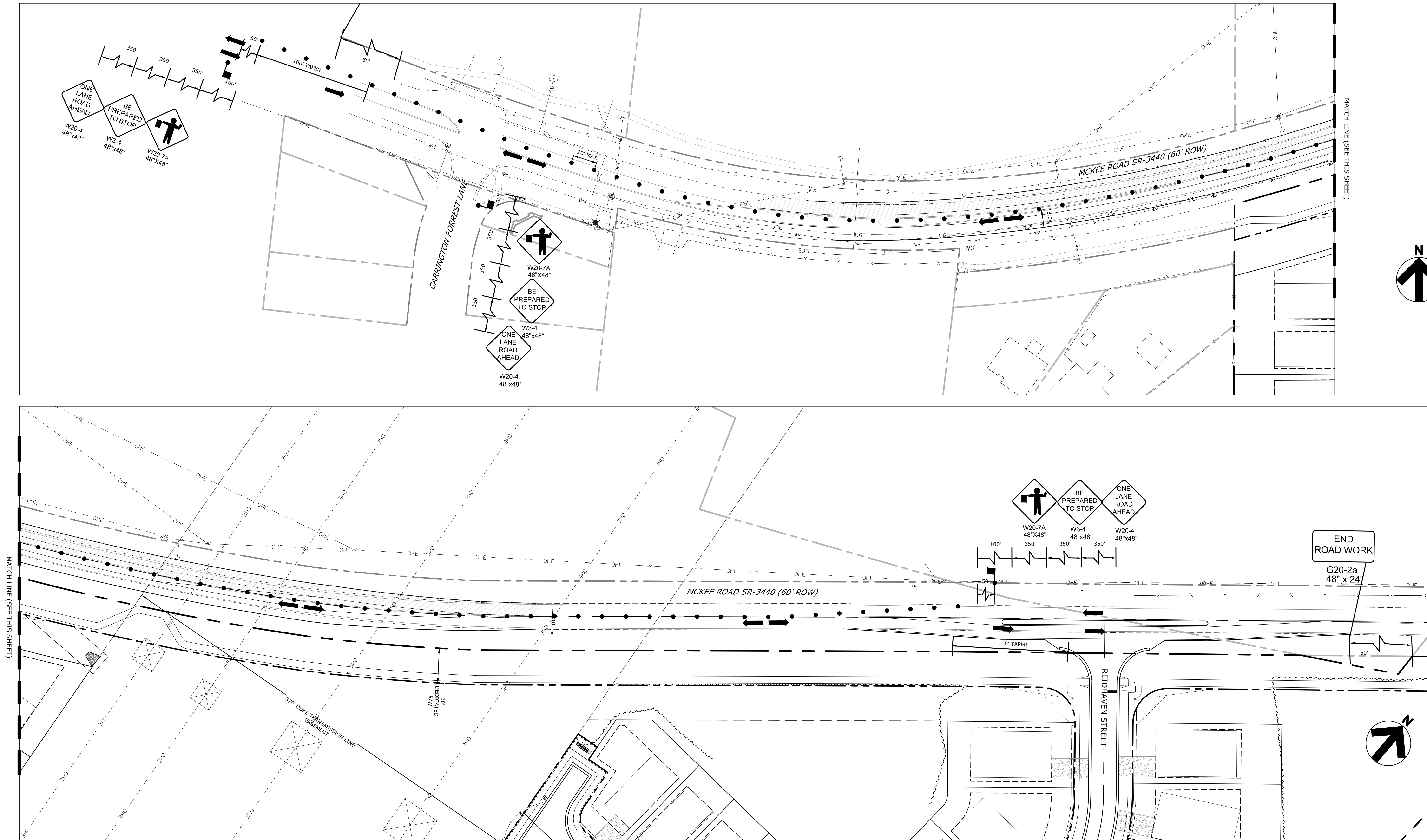
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE

TRAFFIC CONTROL
PHASE 1

SHEET NUMBER

C-706



GENERAL MAINTENANCE OF TRAFFIC NOTES:

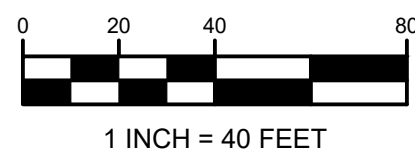
- ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATIONS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)" (CURRENT EDITION), AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD (NCSMUTCD) (CURRENT EDITION).
- THE ROADWAY SHALL NOT BE RE-OPENED TO TRAFFIC UNTIL PERMANENT TRAFFIC CONTROLS ARE IN PLACE, OR UNTIL TEMPORARY TRAFFIC CONTROLS, APPROVED BY THE ENGINEER, ARE INSTALLED. THE CONTRACTOR ASSUMES ALL LIABILITY FOR THE PREMATURE REMOVAL OF TEMPORARY TRAFFIC CONTROLS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REINSTALLATION AND/OR REPLACEMENT OF ALL PERMANENT TRAFFIC CONTROL DEVICES DAMAGED OR REMOVED DURING THE CONSTRUCTION. PERMANENT TRAFFIC CONTROL THAT IS NO LONGER IN CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE REPLACED IMMEDIATELY. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PROVIDE A 24 HOUR CONTACT WHO WILL BE RESPONSIBLE FOR MAINTENANCE OF TRAFFIC FOR THE DURATION OF THE PROJECT.
- CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE IN PLACE AND APPROVED BY THE ENGINEER AND THE INSPECTOR.
- ACCESS TO ALL ADJOINING PROPERTIES TO BE MAINTAINED AT ALL TIMES.
- MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES INCLUDING DRUMS, SIGNS, BARRICADES, MESSAGE BOARDS, DETOUR SIGNAGE, ETC., SHALL BE THE CONTRACTORS RESPONSIBILITY.

NOTES:

- WORK SHALL ONLY BE CONDUCTED DURING NON-PEAK HOURS. DURING CONTRACTOR'S NON-WORKING HOURS ALL LANES SHALL BE OPEN TO TRAFFIC. DURING CONTRACTOR'S NON-WORKING HOURS THE DROP-OFF WITHIN THE WORK ZONE SHALL BE BACKFILLED OR SECURELY PLATTED TO ACCOMPLISH THIS. CONTRACTOR SHALL CONTACT NCDOT PRIOR TO CONSTRUCTION FOR EXTENTS OF GRINDING OF EX. STRIPPING AND PLACEMENT OF TEMPORARY YELLOW LANE LINES. ONCE TEMPORARY YELLOW LANE LINES ARE IN, TEMPORARY LANE CLOSURE, CONCRETE MEDIAN AND ADDITIONAL PAVEMENT WORK MAY BEGIN. CONTRACTOR TO ONLY GRIND THE AMOUNT OF STRIPPING AND PLACE TEMPORARY YELLOW LANE LINES THAT CAN BE COMPLETELY FINISHED DURING WORKING HOURS. WORK SHALL BEGIN AND END WHERE STRIPPING IS TO BE GRINDED AND REPLACED. WORK COMPLETED IN ONE PHASE SHALL BE COMPLETED WITH 1-WAY TRAFFIC WITH WORK ZONE AS DEPICTED ON THIS PLAN. THIS SECTION SHALL BE AS PER NCDOT STD 1101.02 SHEET 1 OF 15.
- ADVANCED WARNING SIGNS SHALL BE PLACED IN A VISIBLE LOCATION NOT IN CONFLICT WITH ANY EXISTING SIGN, DRIVE OR INTERSECTION.
- EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED.
- ALL CONSTRUCTION SHALL CONFORM TO VILLAGE OF WESLEY CHAPEL AND NCDOT STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL COORDINATE WITH NCDOT INSPECTOR FOR ALL TRAFFIC CONTROL. FIELD MODIFICATIONS MAY BE REQUIRED.

LEGEND

- DRUM (NCDOT 1130.01)
- FLAGGER
- AREA OF CONCRETE
- WORK AREA
- TRAFFIC FLOW ARROW
- EXISTING RIGHT-OF-WAY
- EXISTING EDGE OF PAVEMENT
- PROPOSED EDGE OF PAVEMENT



TRAFFIC CONTROL PHASE 2
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE
	07/06/2018	



ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE

TRAFFIC CONTROL
PHASE 2

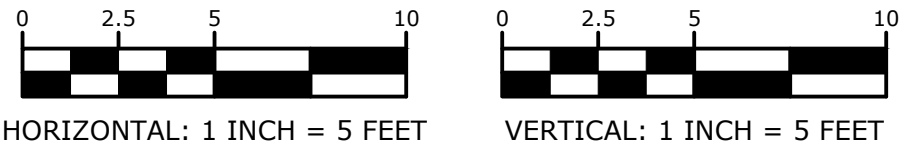
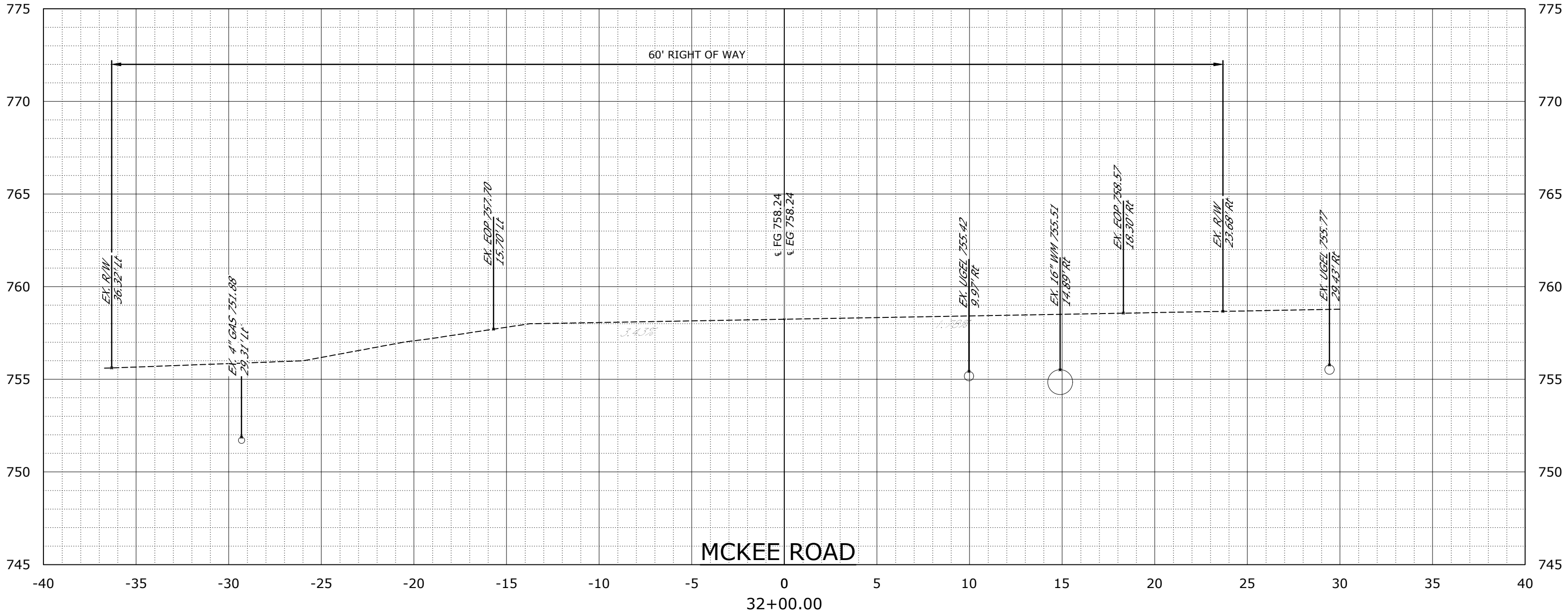
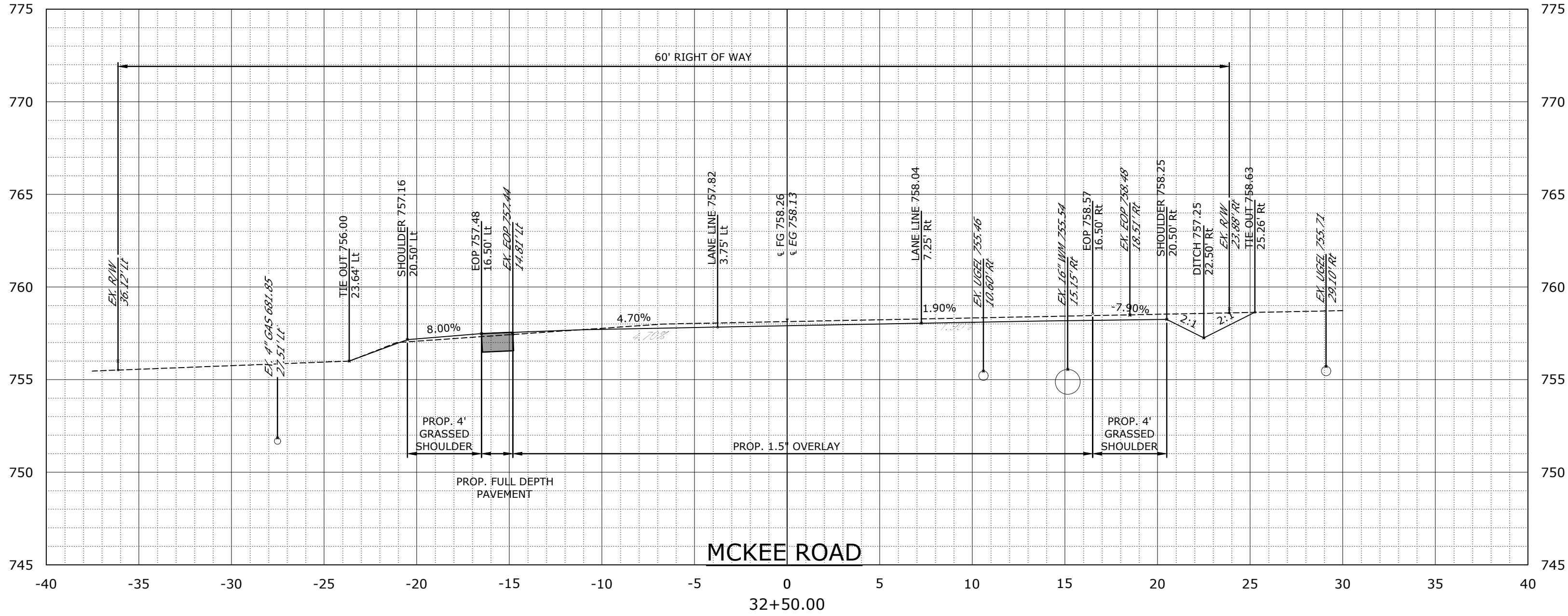
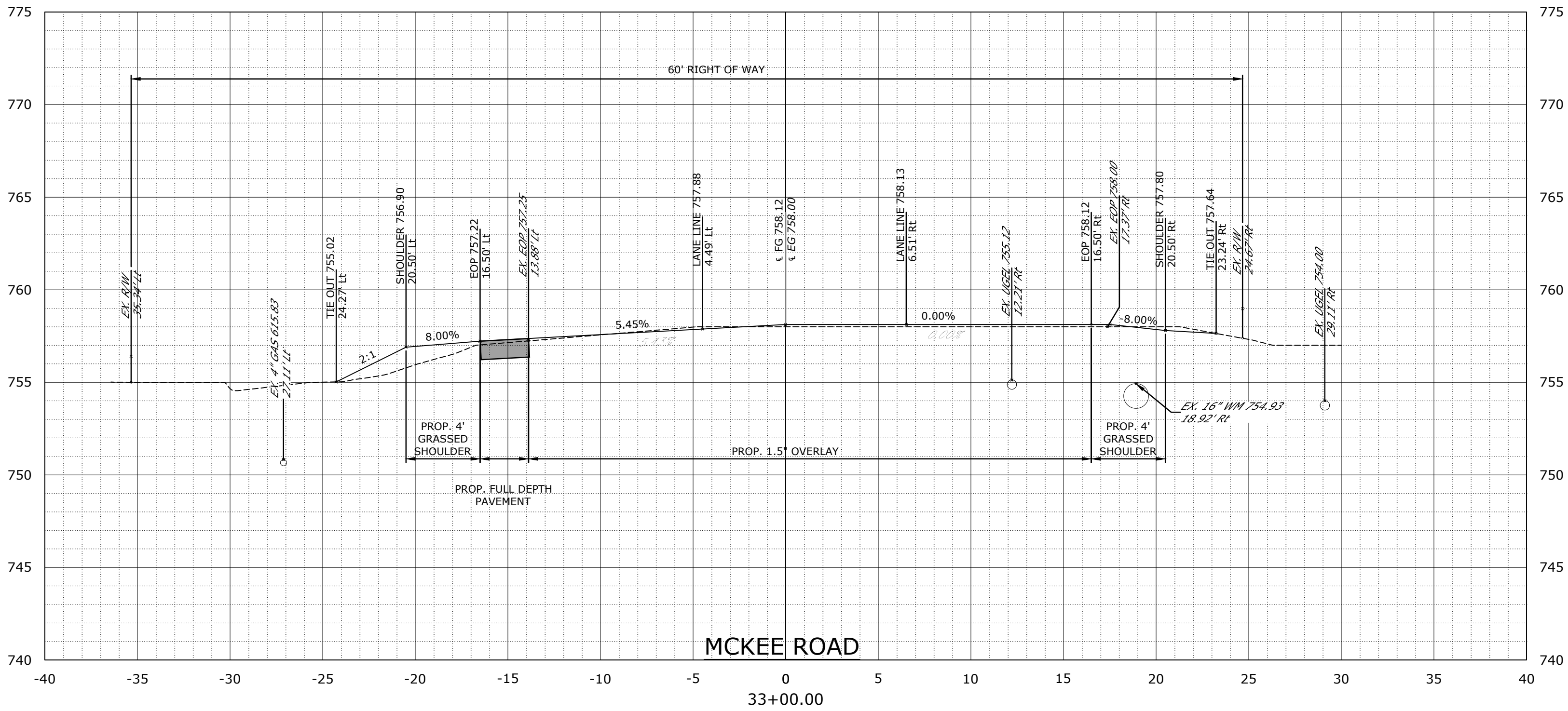
SHEET NUMBER

C-707



CHARLOTTE
9600 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927- 9700 www.cardno.com





MCKEE ROAD CROSS SECTIONS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

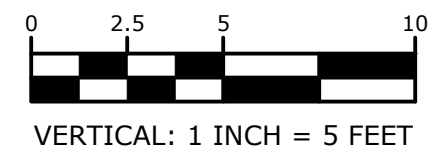
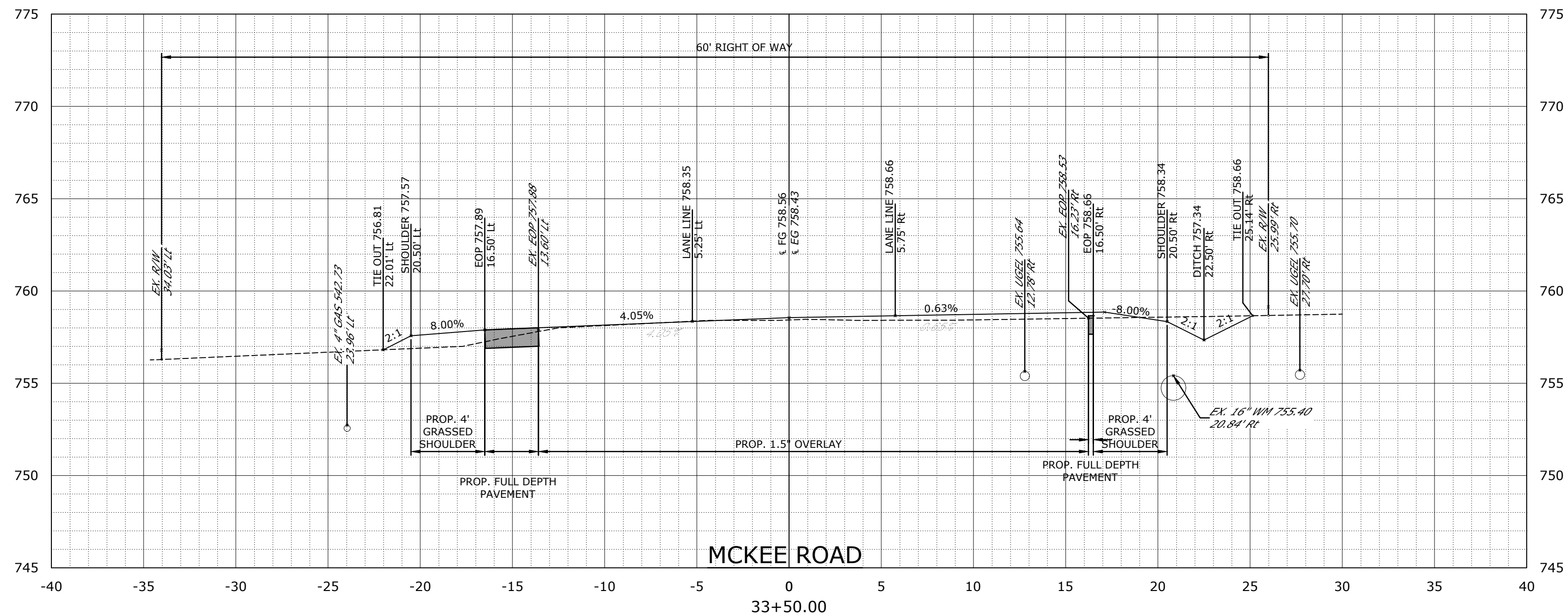
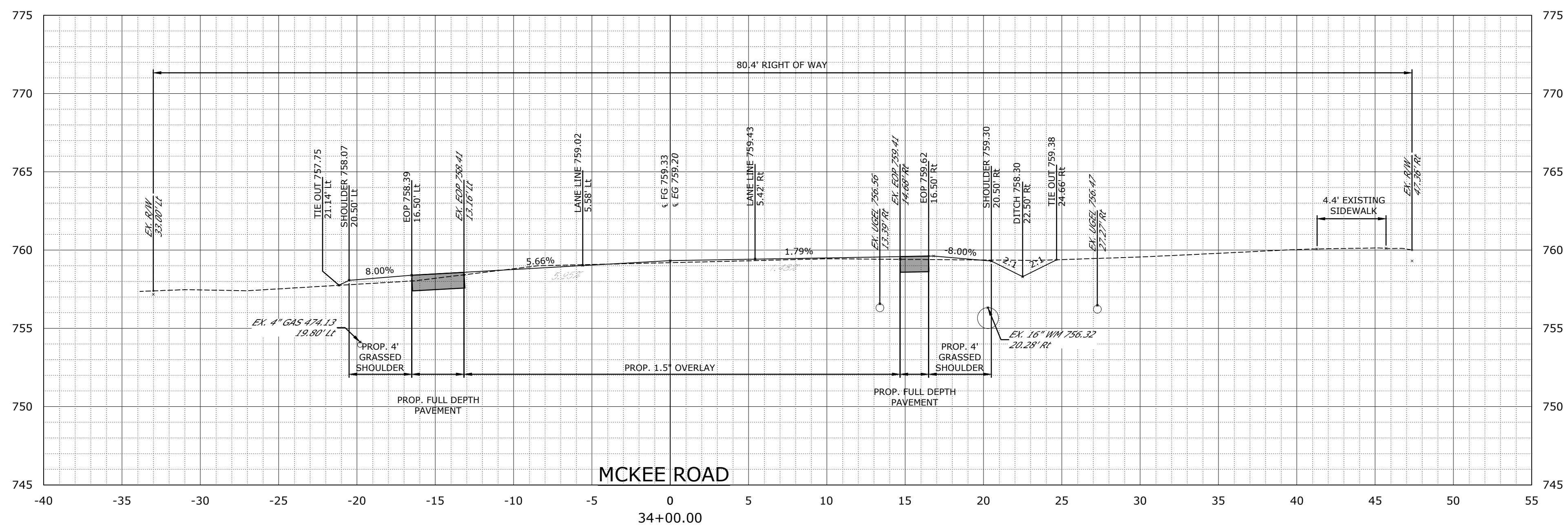
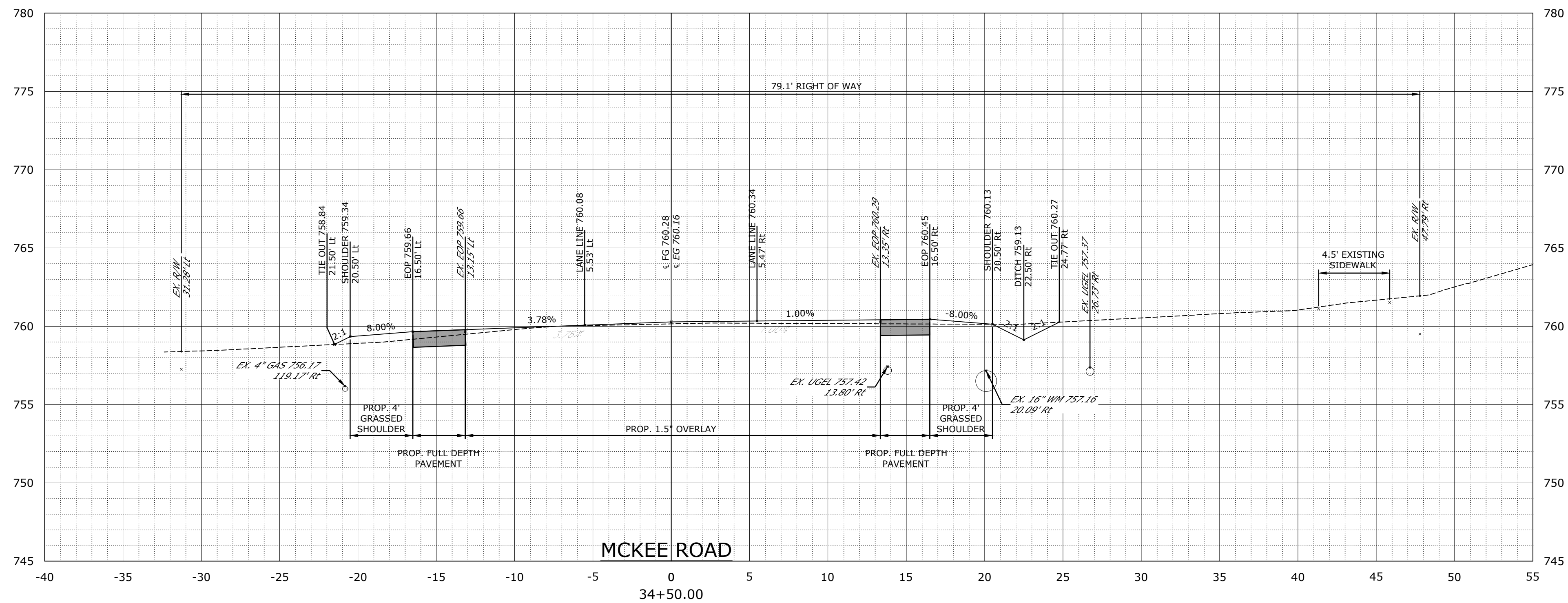


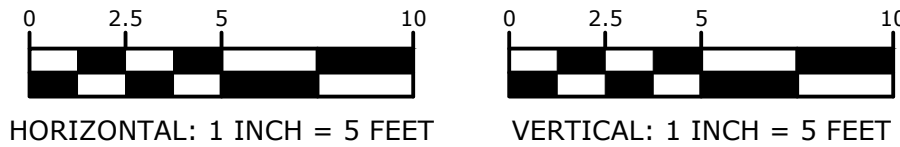
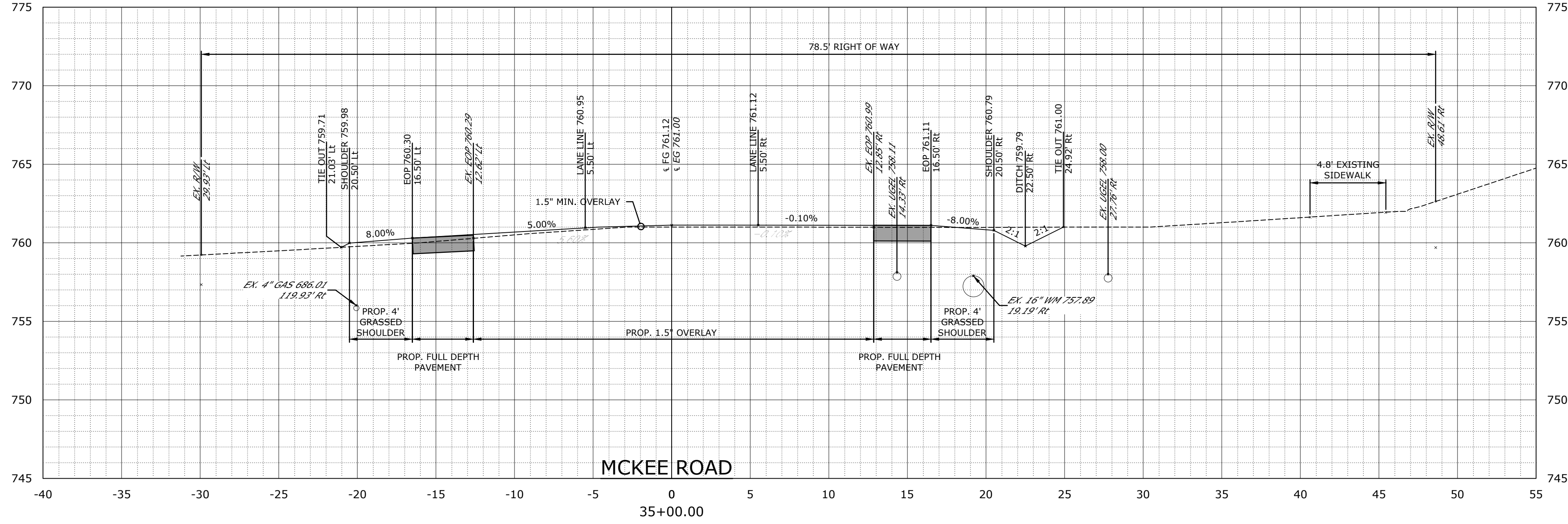
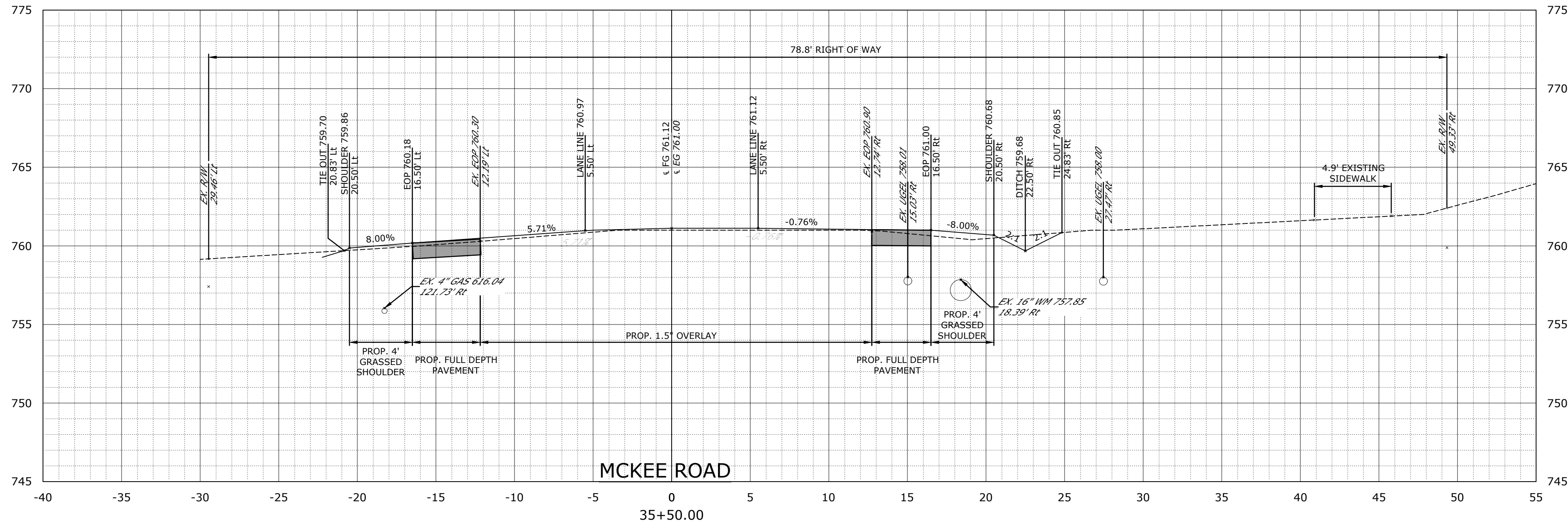
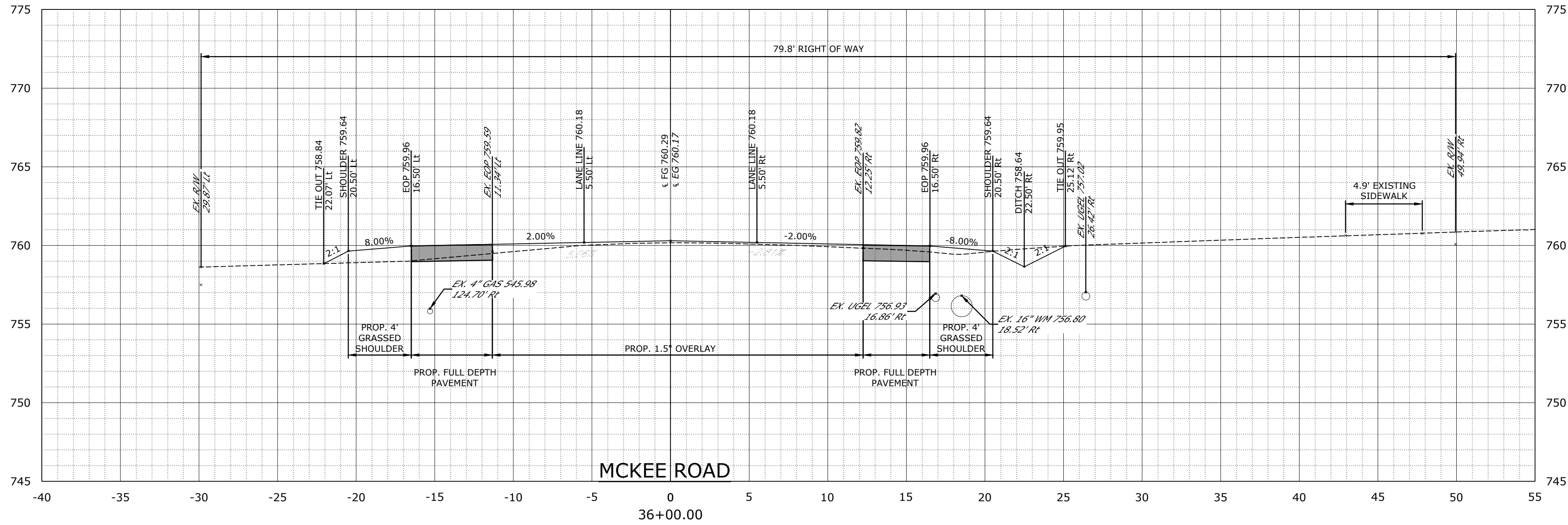
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE
MCKEE ROAD CROSS SECTIONS
SHEET NUMBER
C-708



Plot Stamp: 7/12/2018 2:21:33 PM - Shane Finn
File: W:\Cambridge Properties\McKee Road Subd





MCKEE ROAD CROSS SECTIONS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

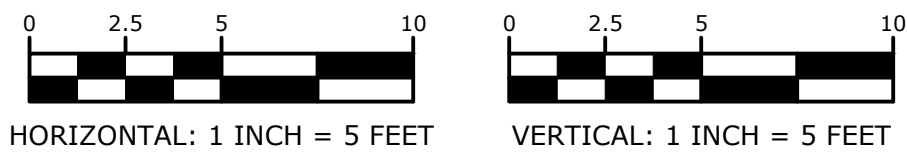
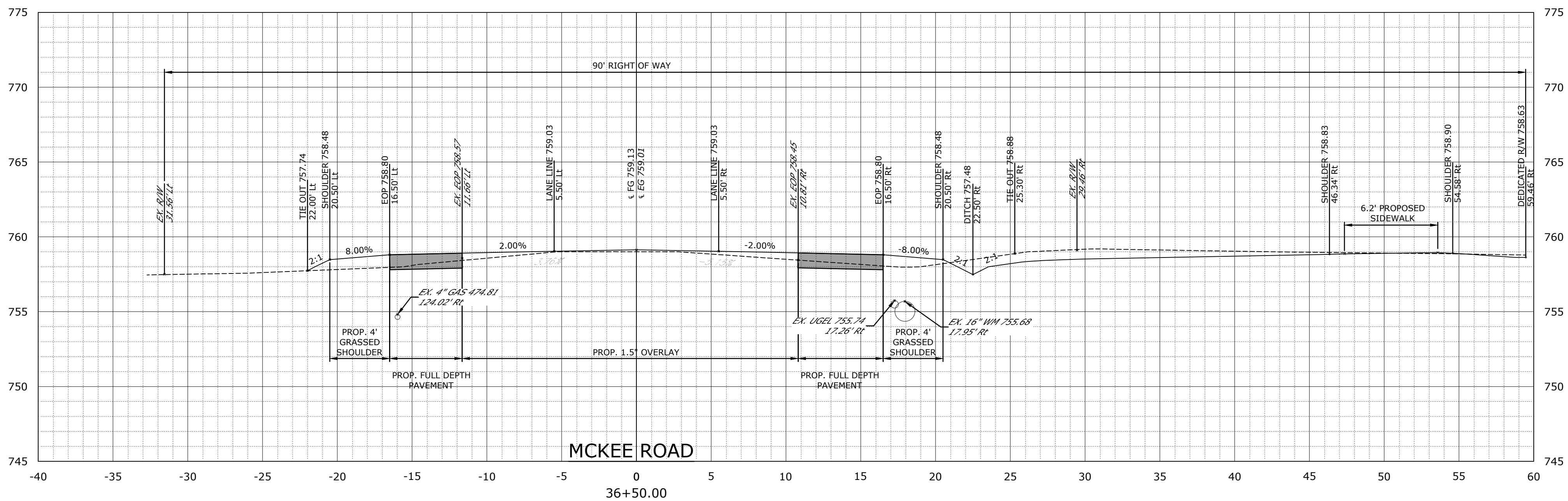
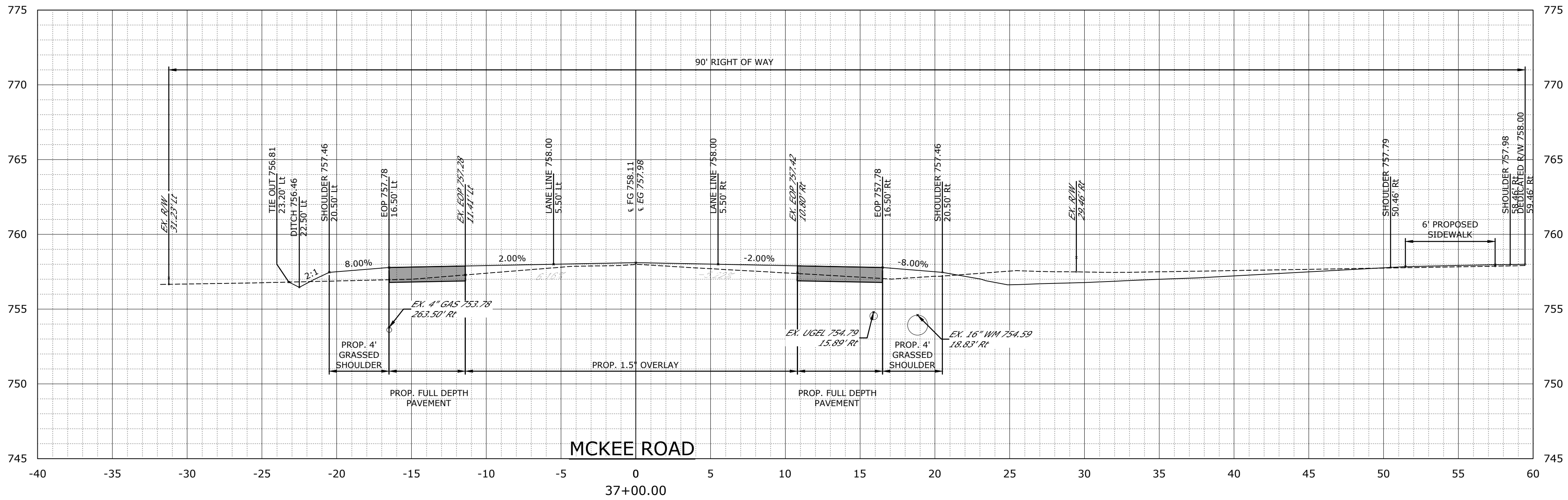
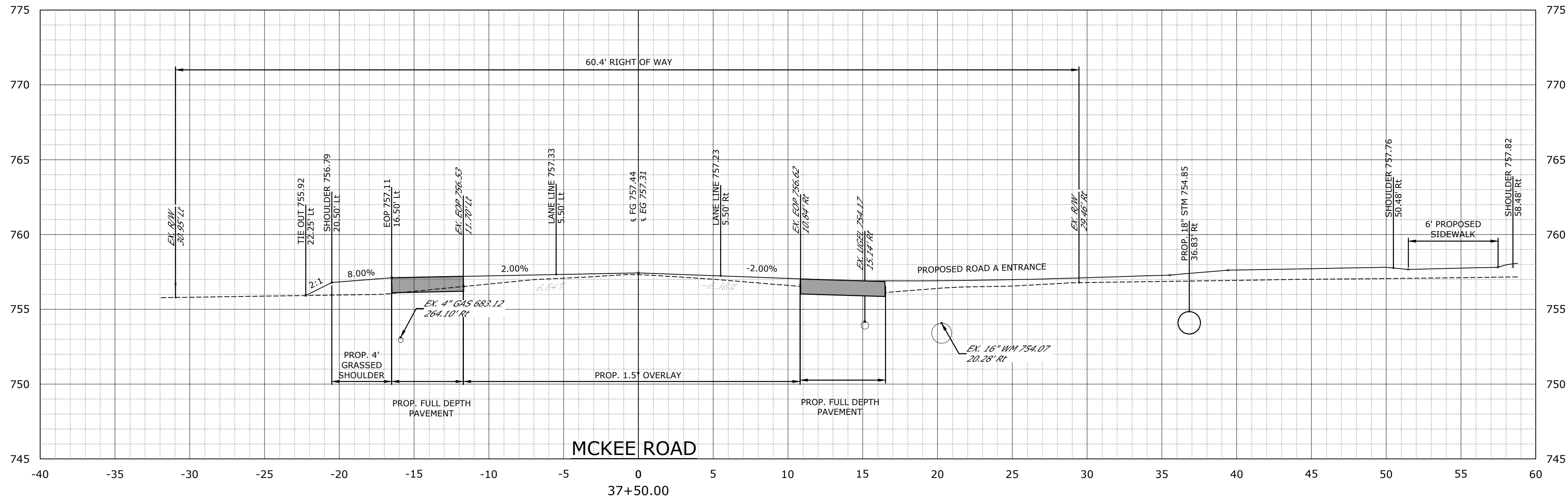


ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

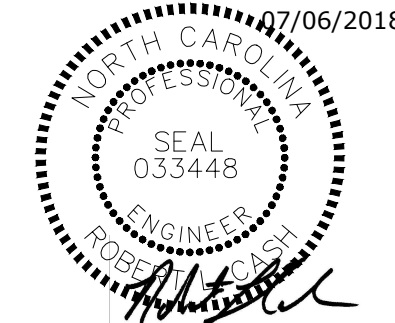
SHEET TITLE
MCKEE ROAD CROSS SECTIONS
SHEET NUMBER

C-710

Plot Stamp: 7/12/2018 2:22:08 PM - Shane Finn
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-706 MCKEE ROAD CROSS SECTIONS.dwg, Tab: C-711 MCKEE ROAD CROSS SECTIONS



#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

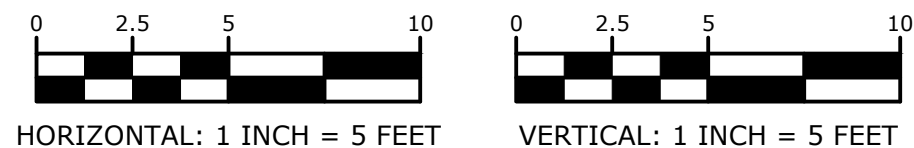
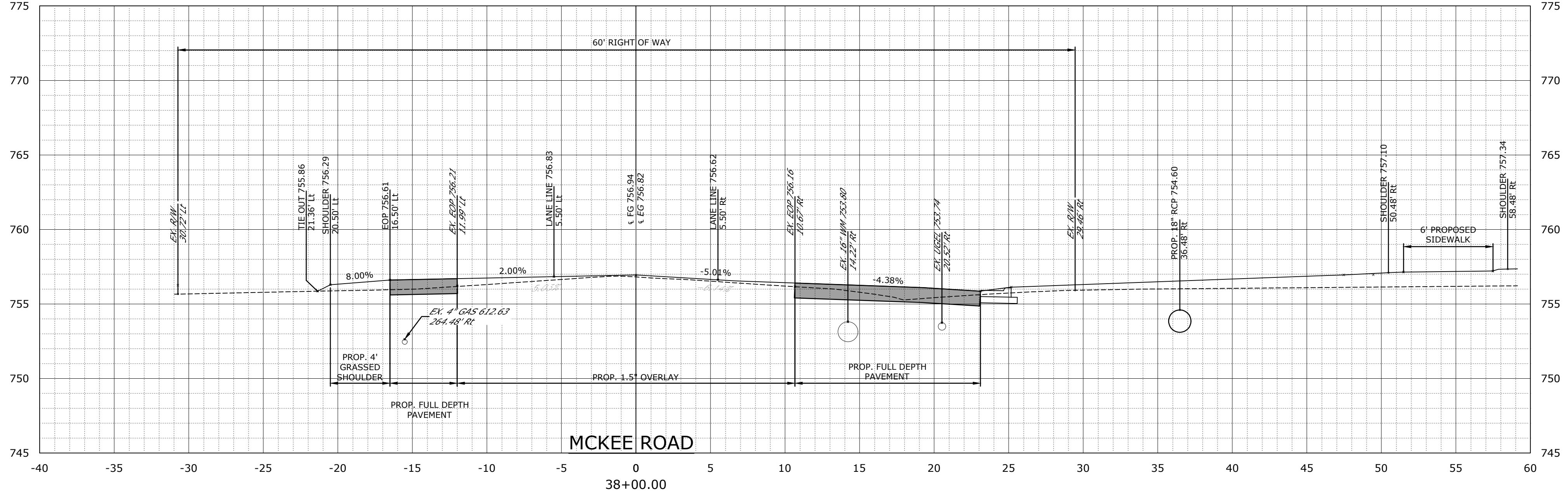
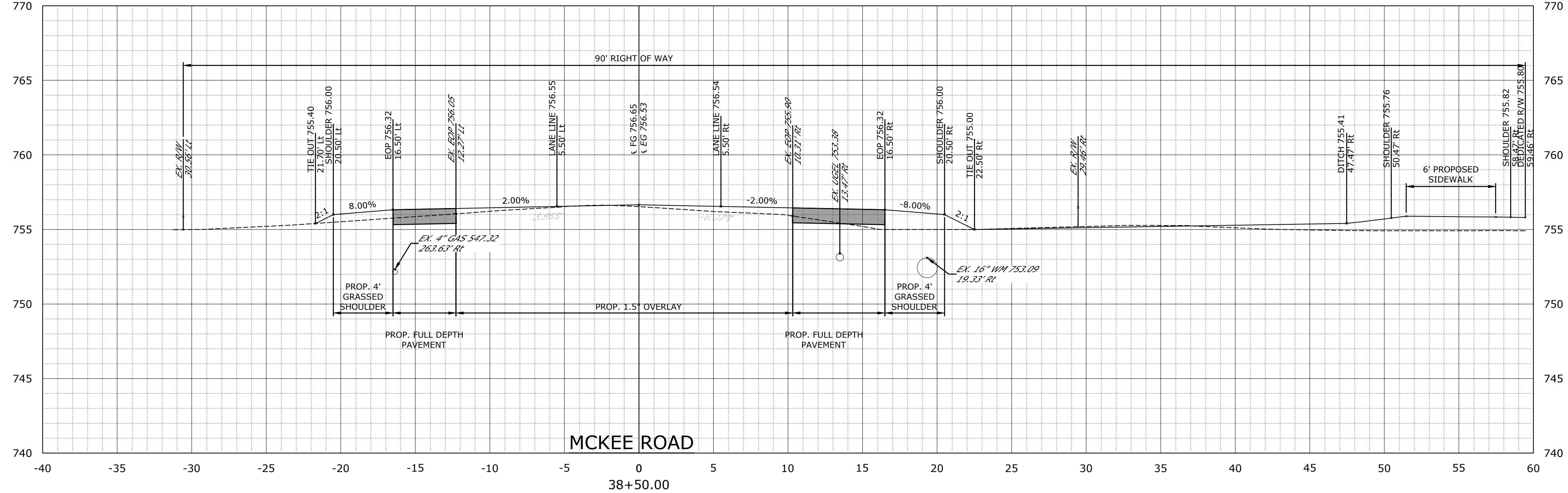
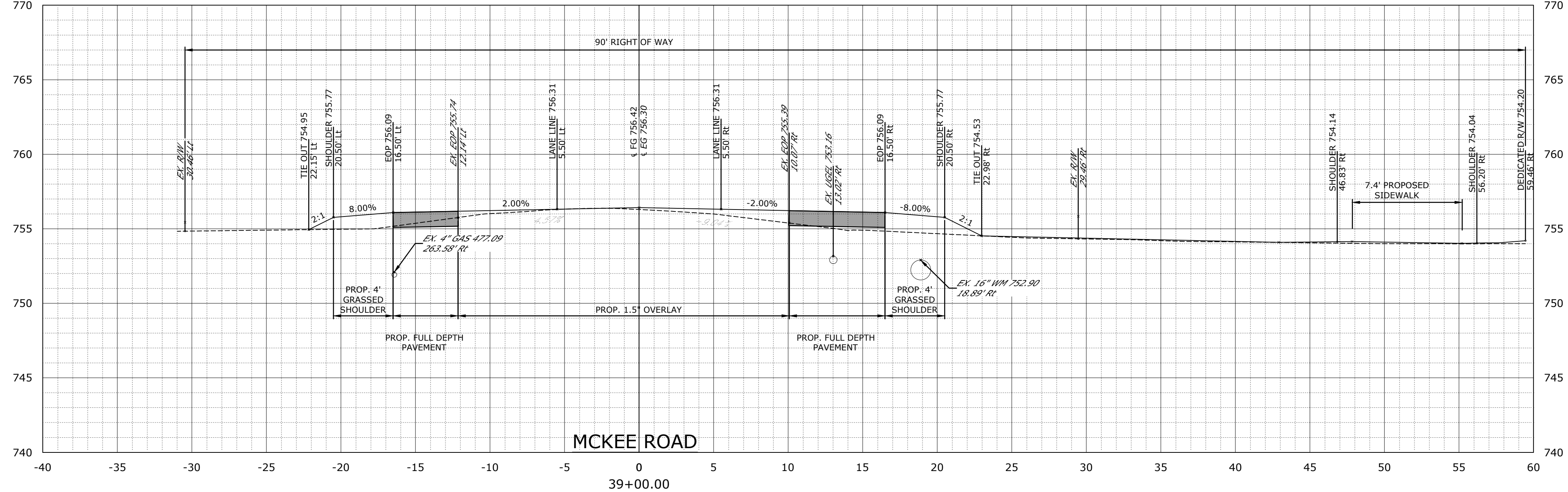


ROBERT L. CASH, P.E.
NC LICENSE No. 033448

DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE
MCKEE ROAD CROSS SECTIONS
SHEET NUMBER

Plot Stamp: 7/12/2018 2:22:29 PM - Shane Finn
File: W:\Cambridge Properties\McKee Road Subd

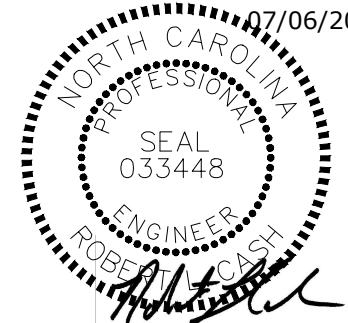


CHARLOTTE
9800 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927-9700 www.cardno.com



MCKEE ROAD CROSS SECTIONS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



ROBERT L. CASH, P.E.
NC LICENSE No. 033448

DATE | 07/06/2018

DRAWN | MAH

DESIGNED | ANE

CHECKED | RLC

PROJECT # | CAMB17001

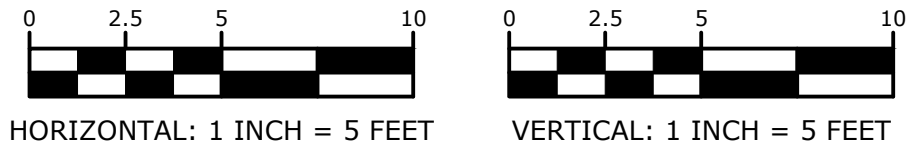
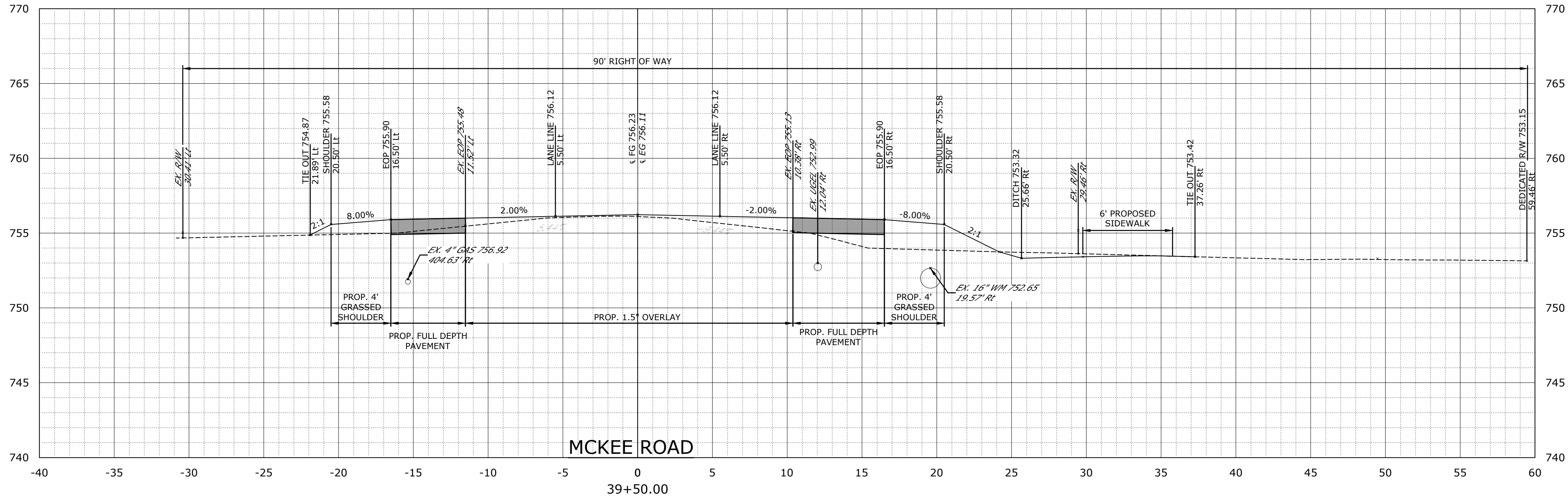
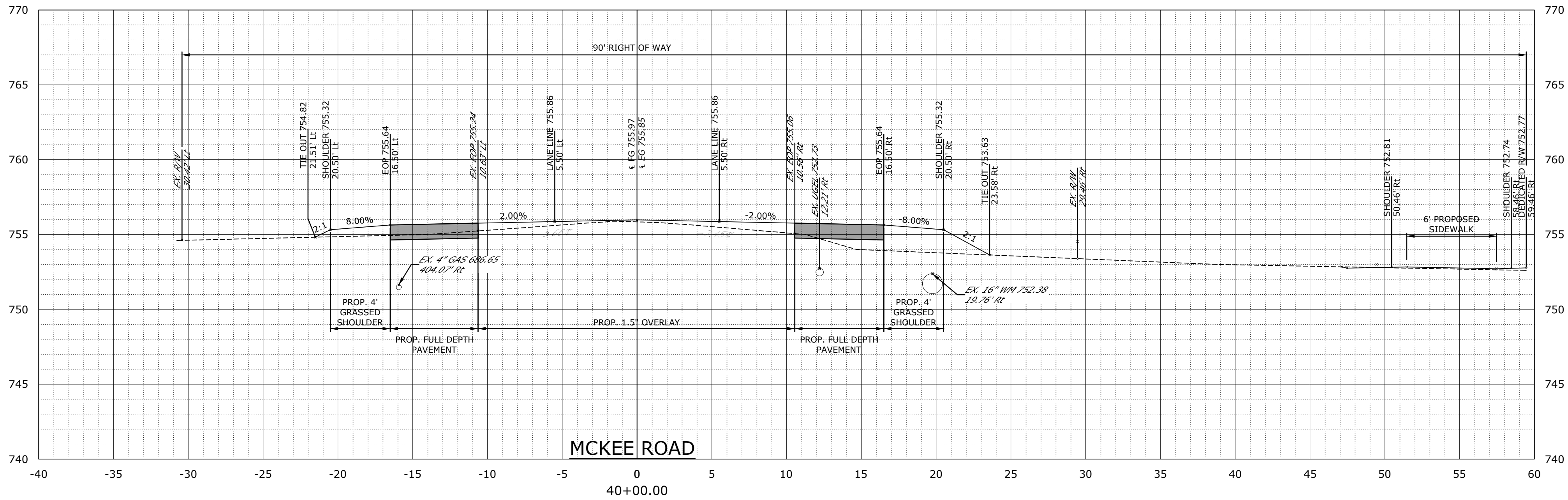
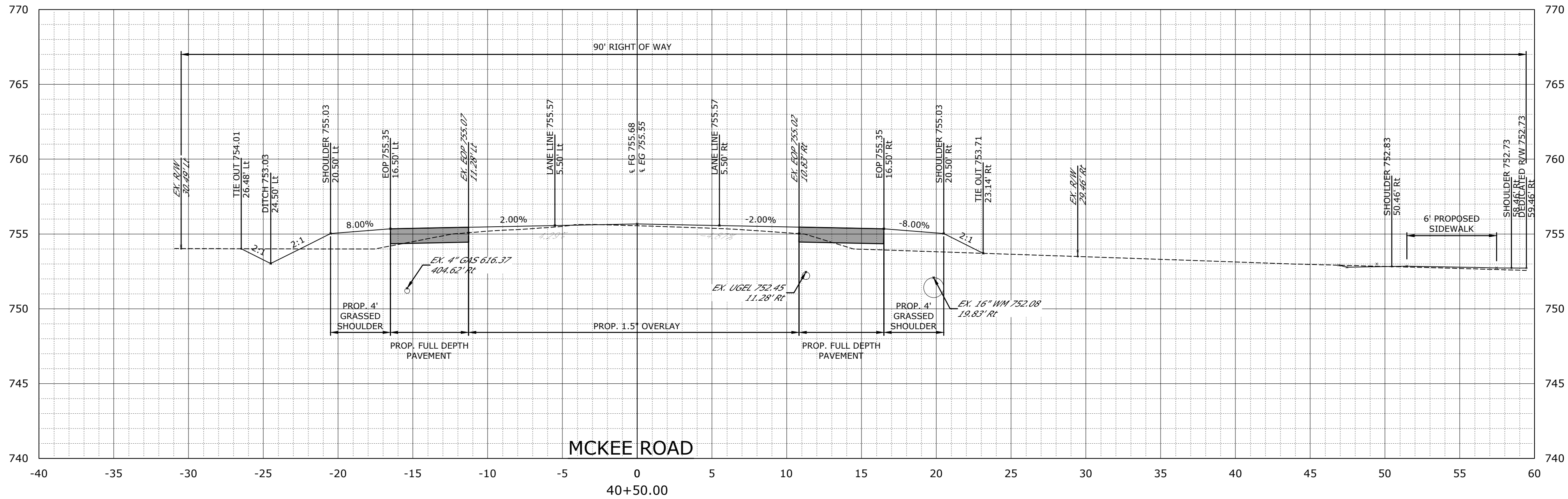
SHEET TITLE

MCKEE ROAD CROSS SECTIONS

SHEET NUMBER

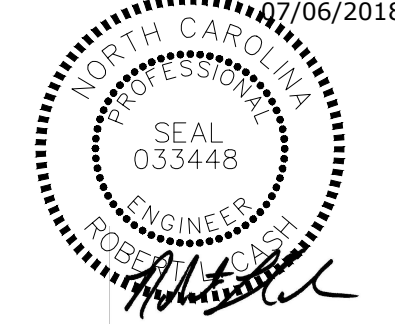
C-712

Plot Stamp: 7/12/2018 2:22:53 PM - Shane Finn
File: W:\Cambridge Properties\McKee Road Subdivision\Civil\DWG\04_Sheets\C-706 MCKEE ROAD CROSS SECTIONS.dwg, Tab: C-713 MCKEE ROAD CROSS SECTIONS



MCKEE ROAD CROSS SECTIONS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

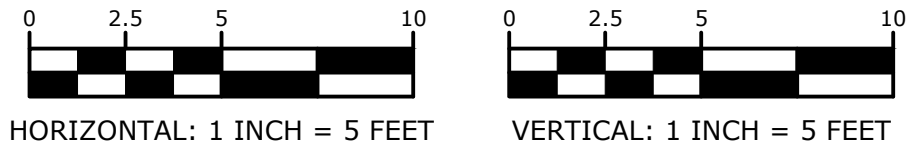
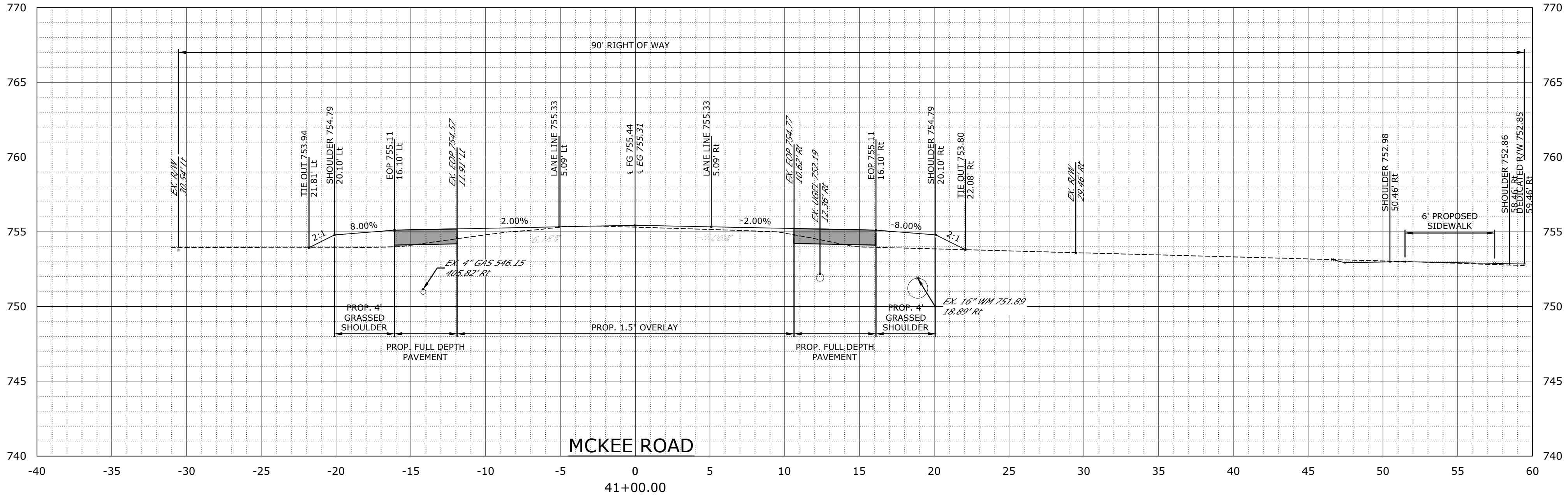
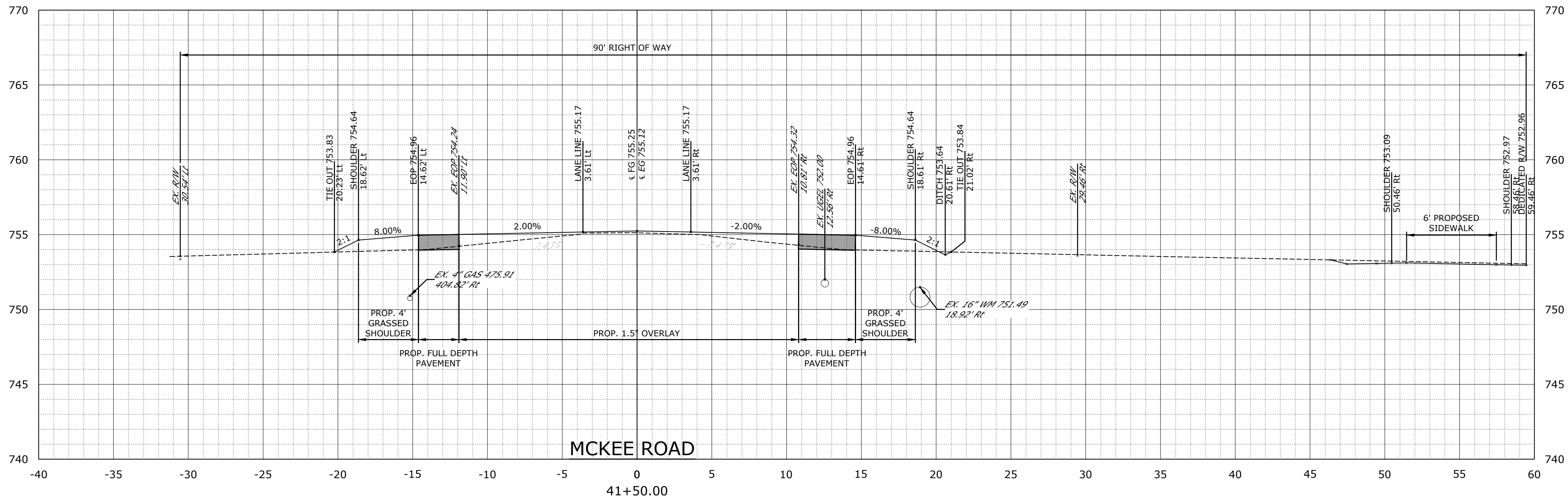
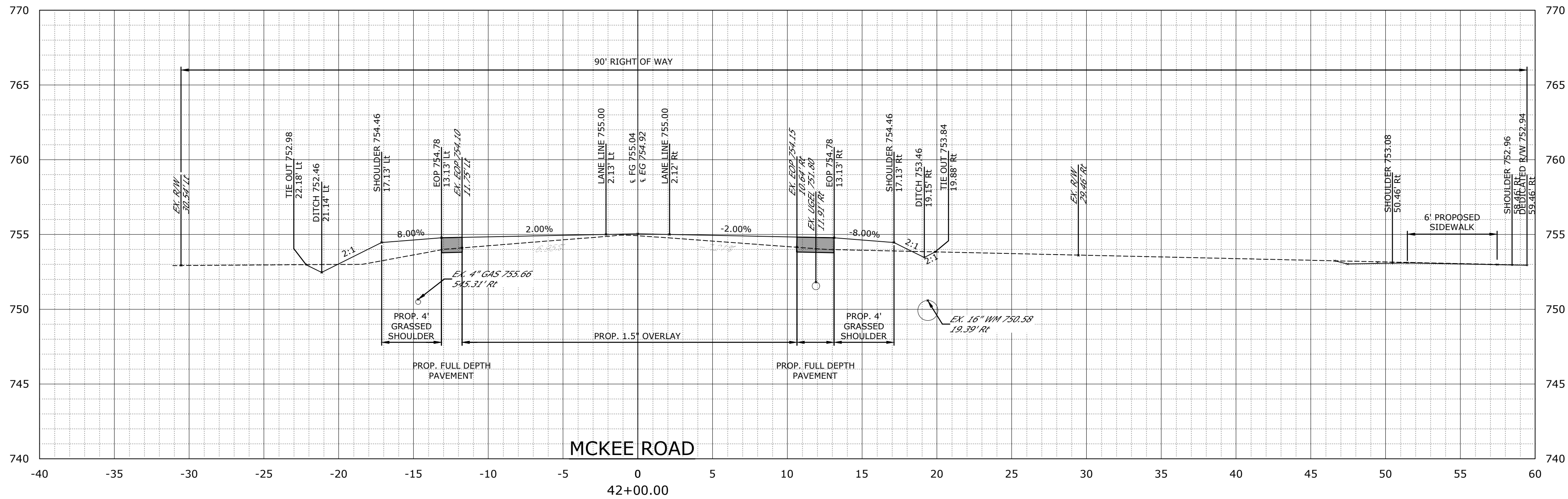
#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



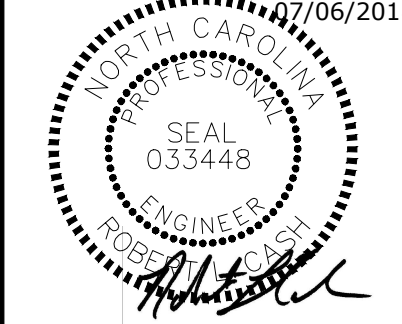
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE
MCKEE ROAD CROSS SECTIONS
SHEET NUMBER

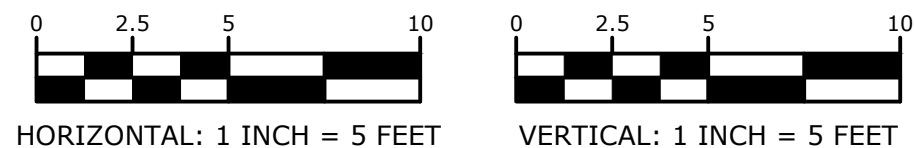
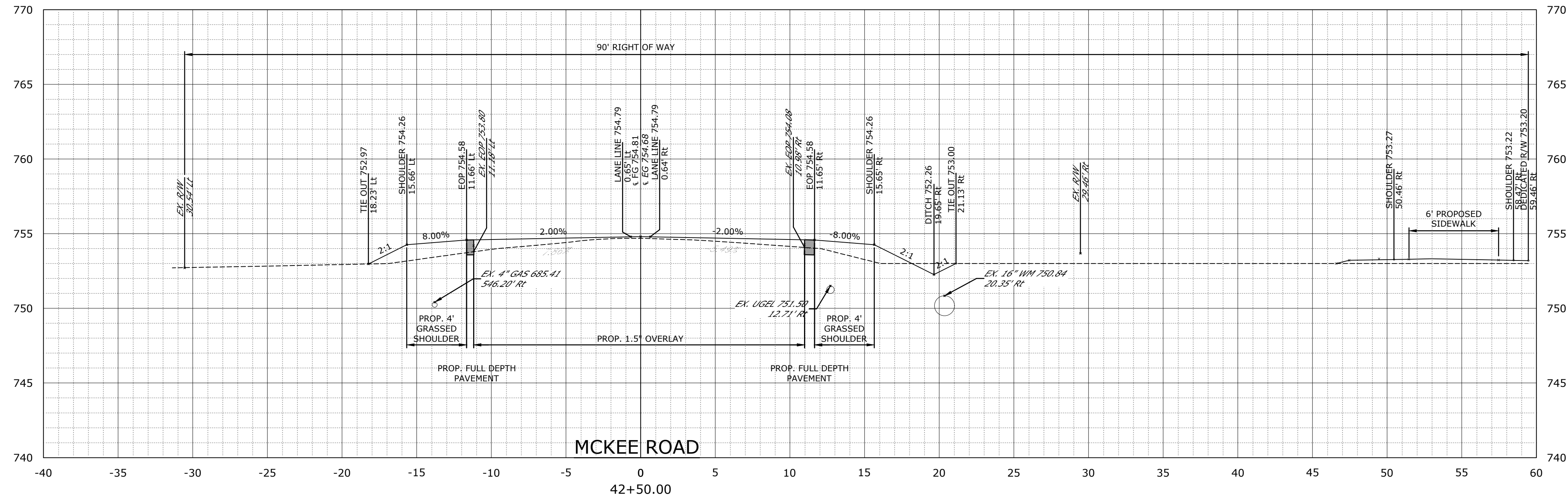
C-713

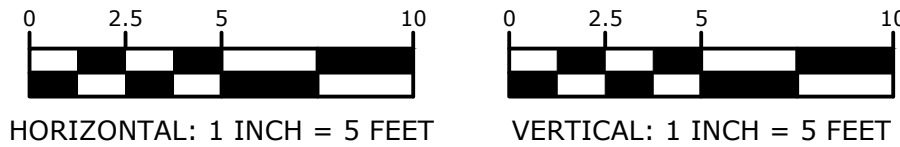
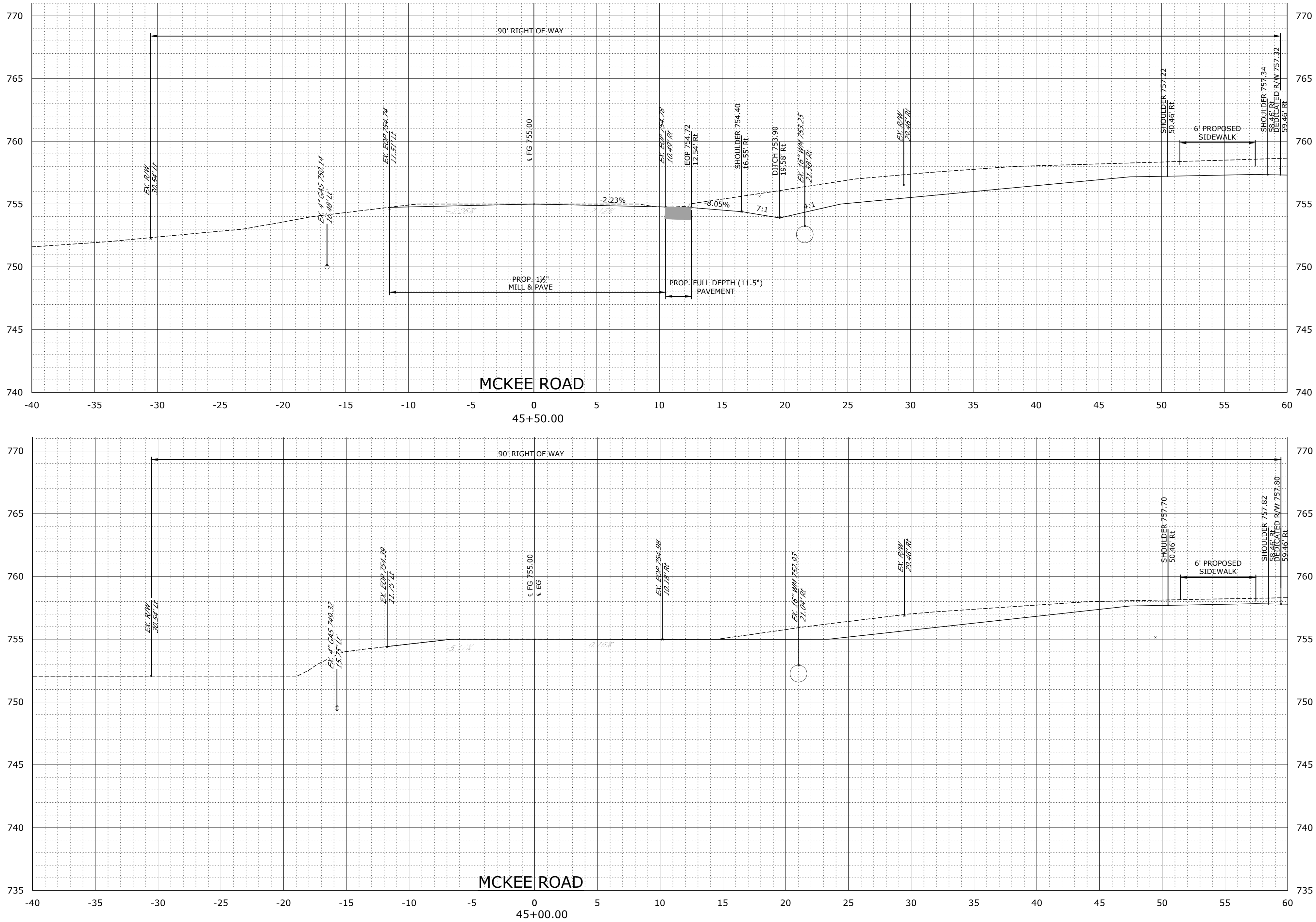


#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	



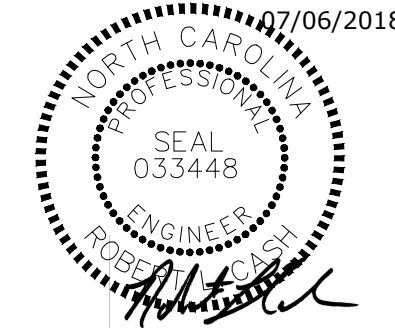
ROBERT L. CASH, P.E.	07/06/2018
NC LICENSE No. 033448	
DATE	07/06/2018
DRAWN	MAH
DESIGNED	ANB
CHECKED	RLC
PROJECT #	CAMB17001





MCKEE ROAD CROSS SECTIONS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION	BY
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE	
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE	
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE	

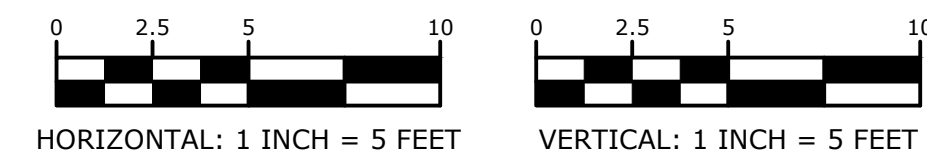
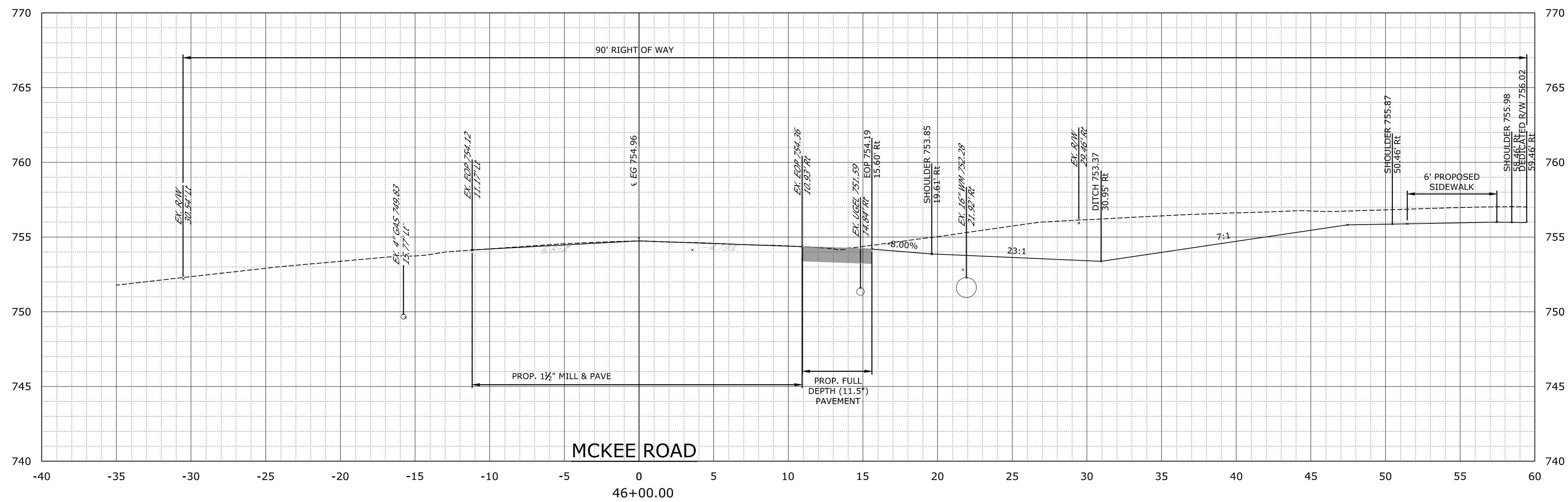
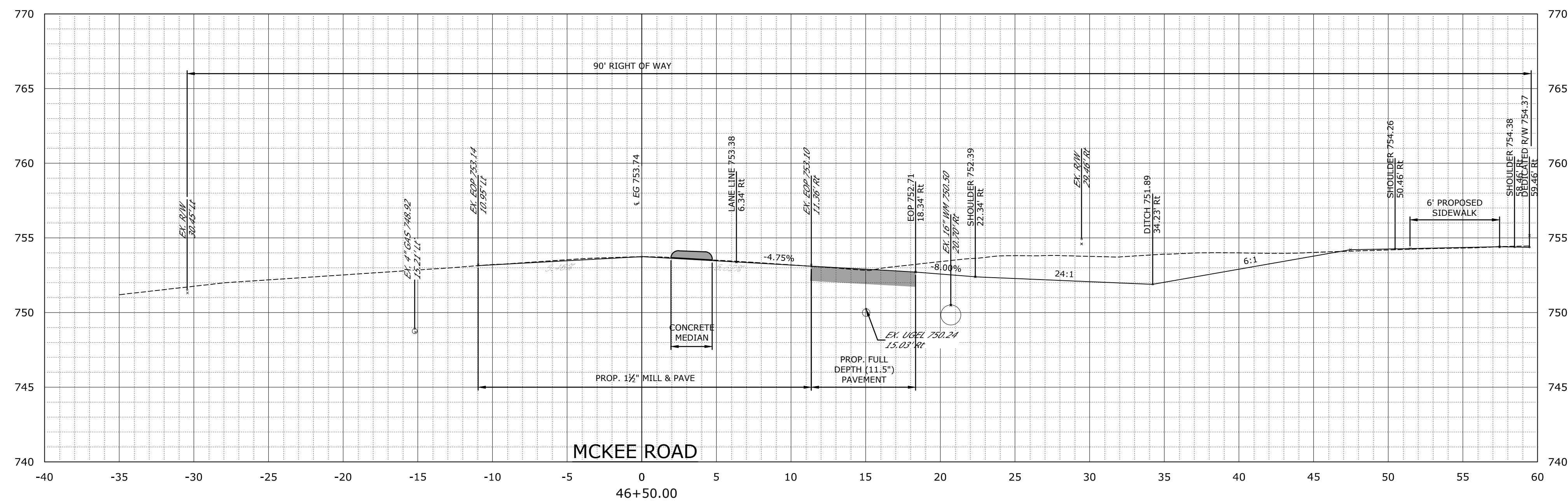
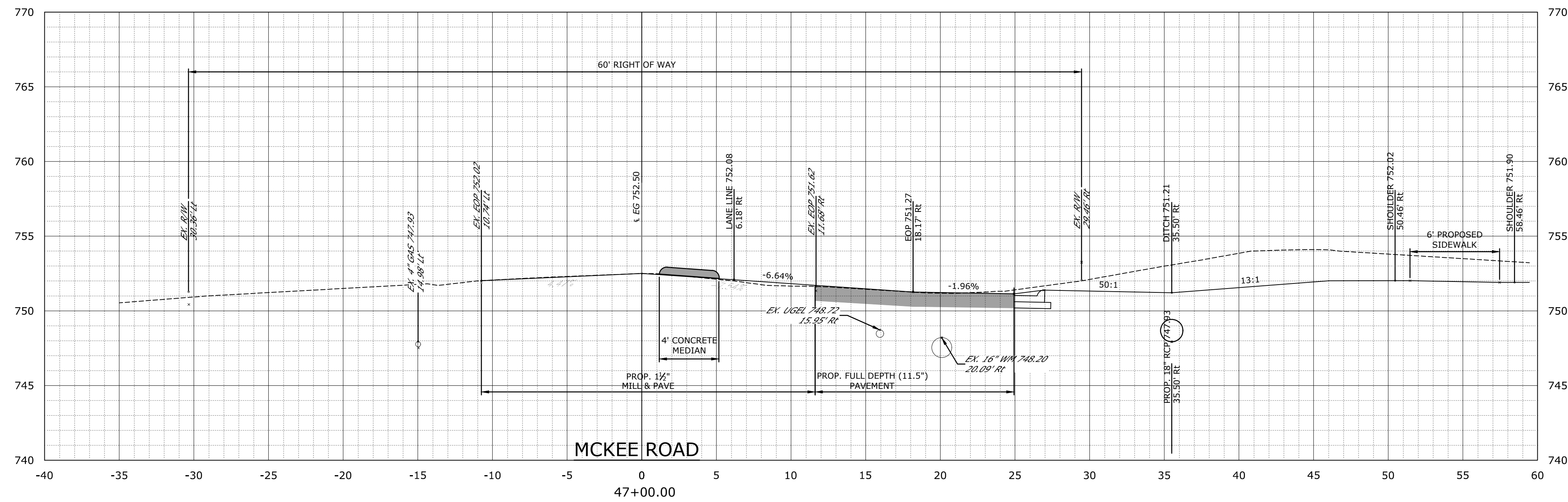


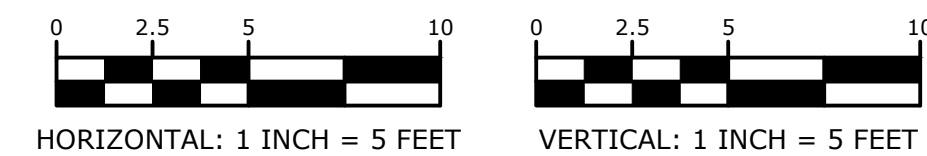
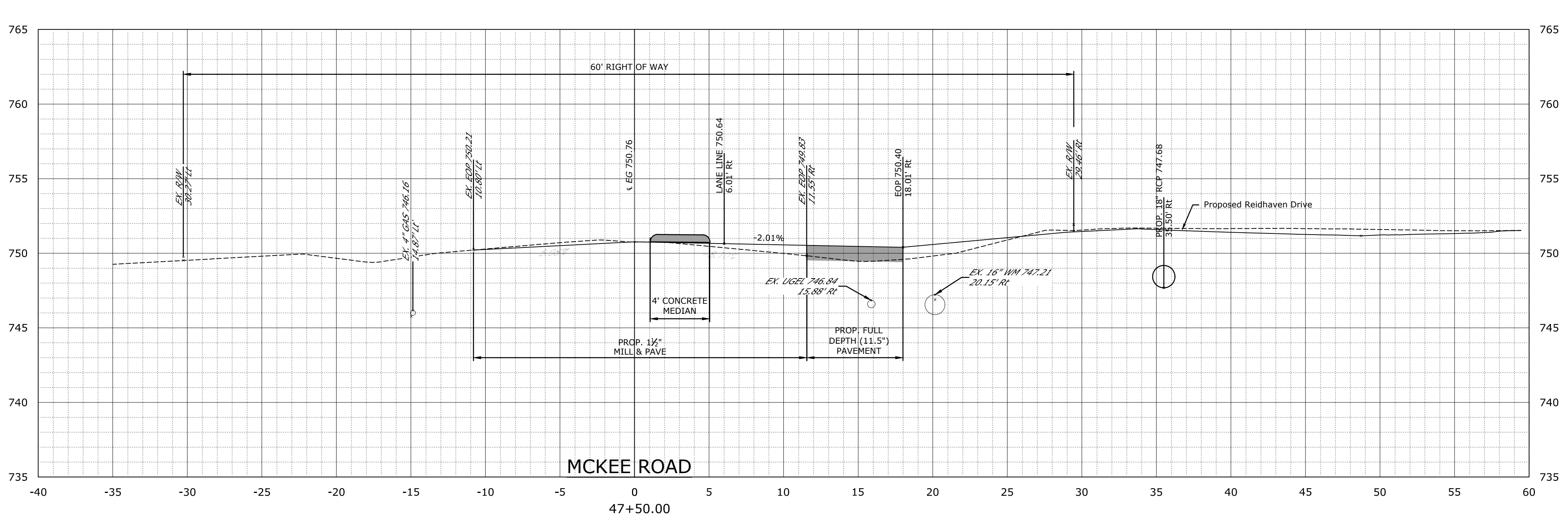
ROBERT L. CASH, P.E.
NC LICENSE No. 033448
DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

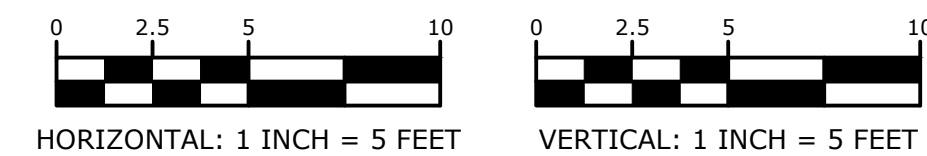
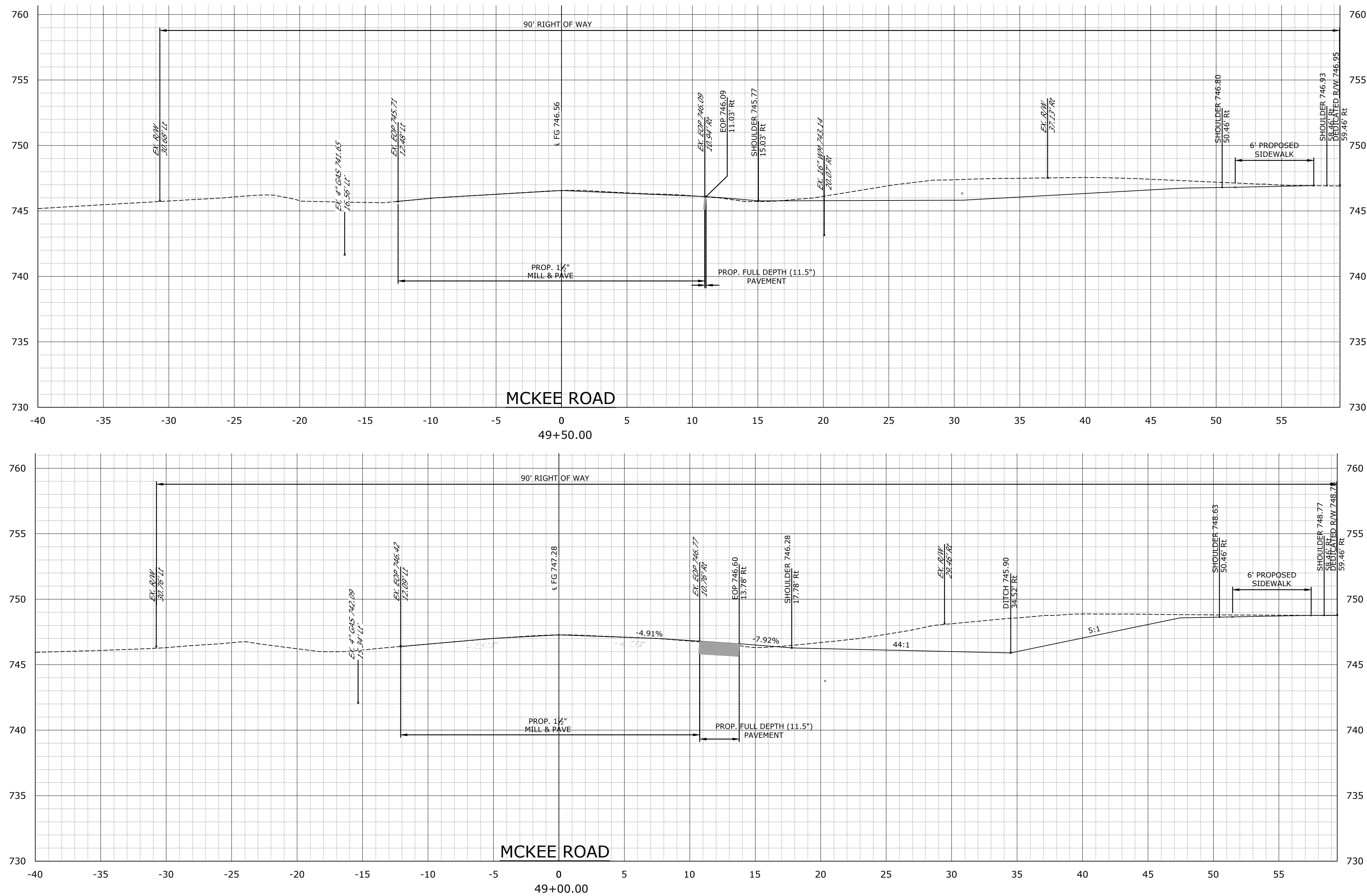
SHEET TITLE
MCKEE ROAD CROSS SECTIONS
SHEET NUMBER

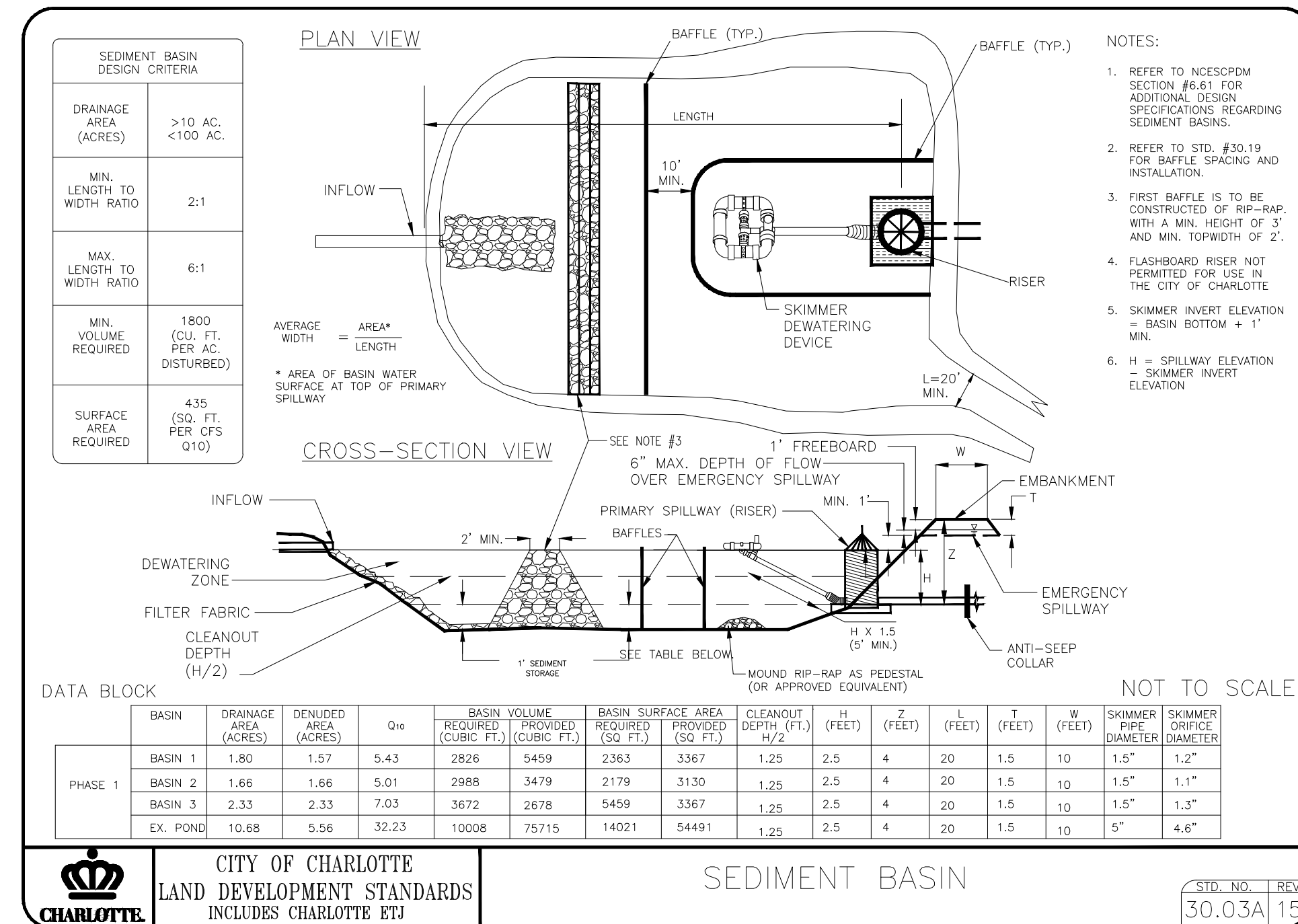
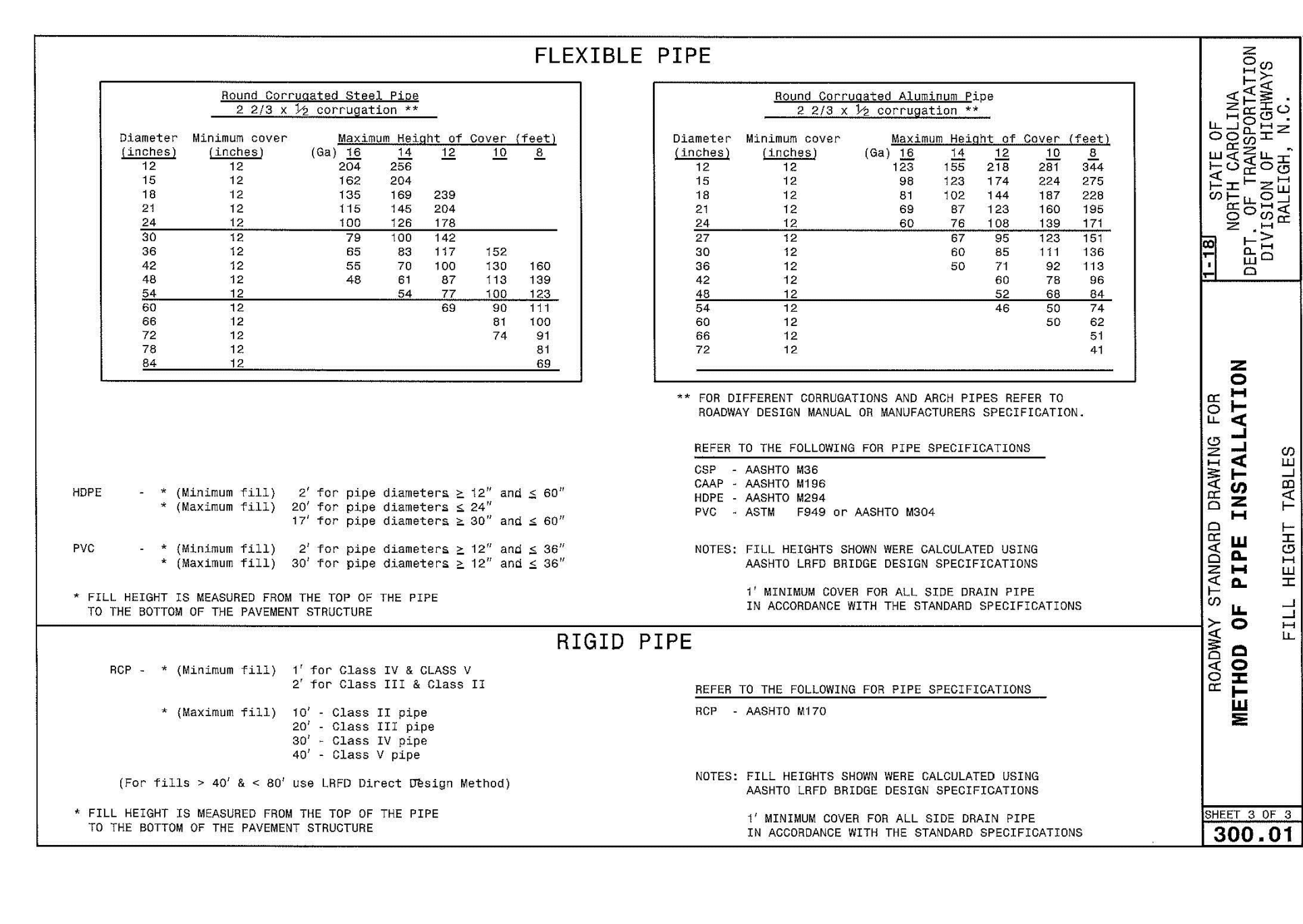
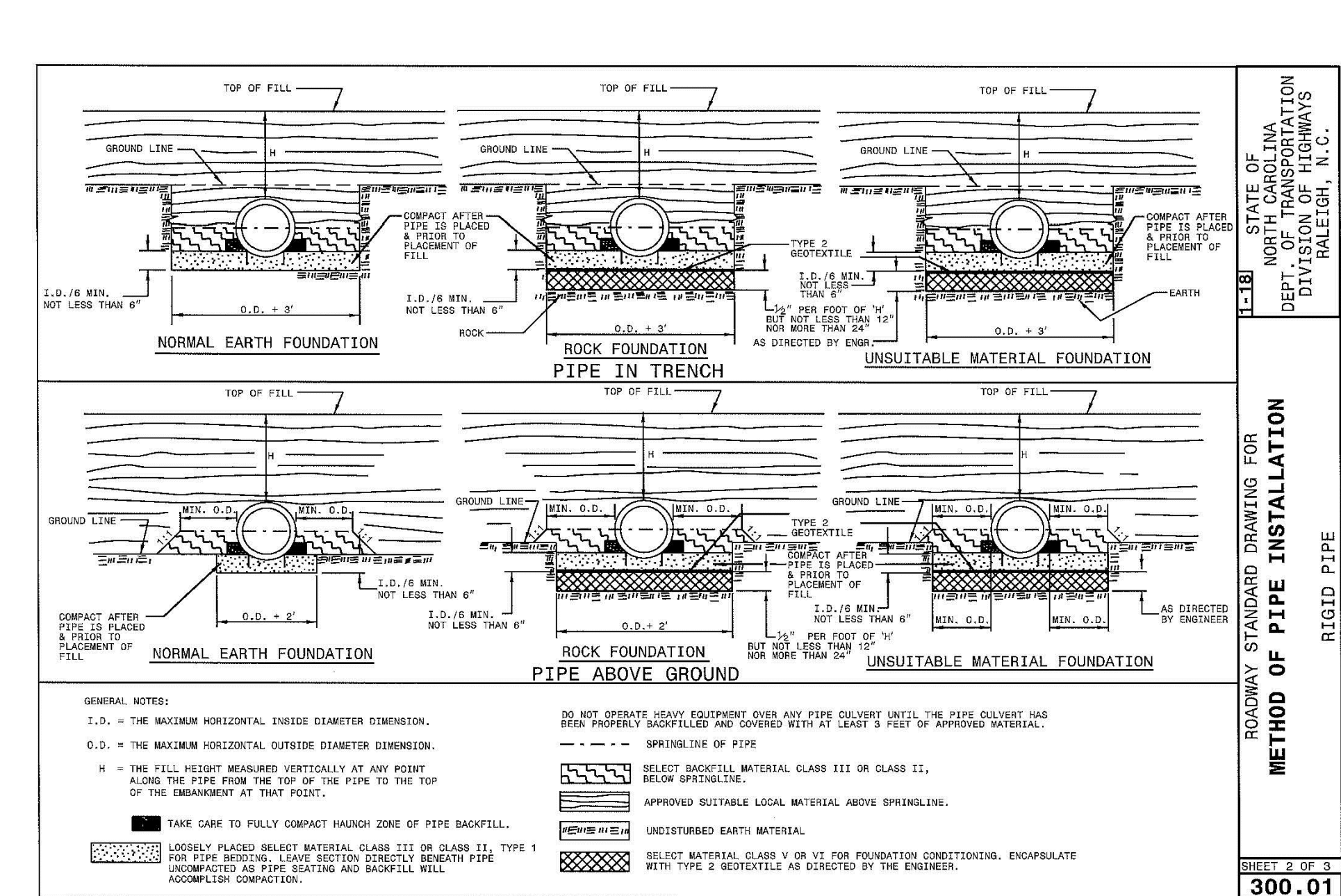
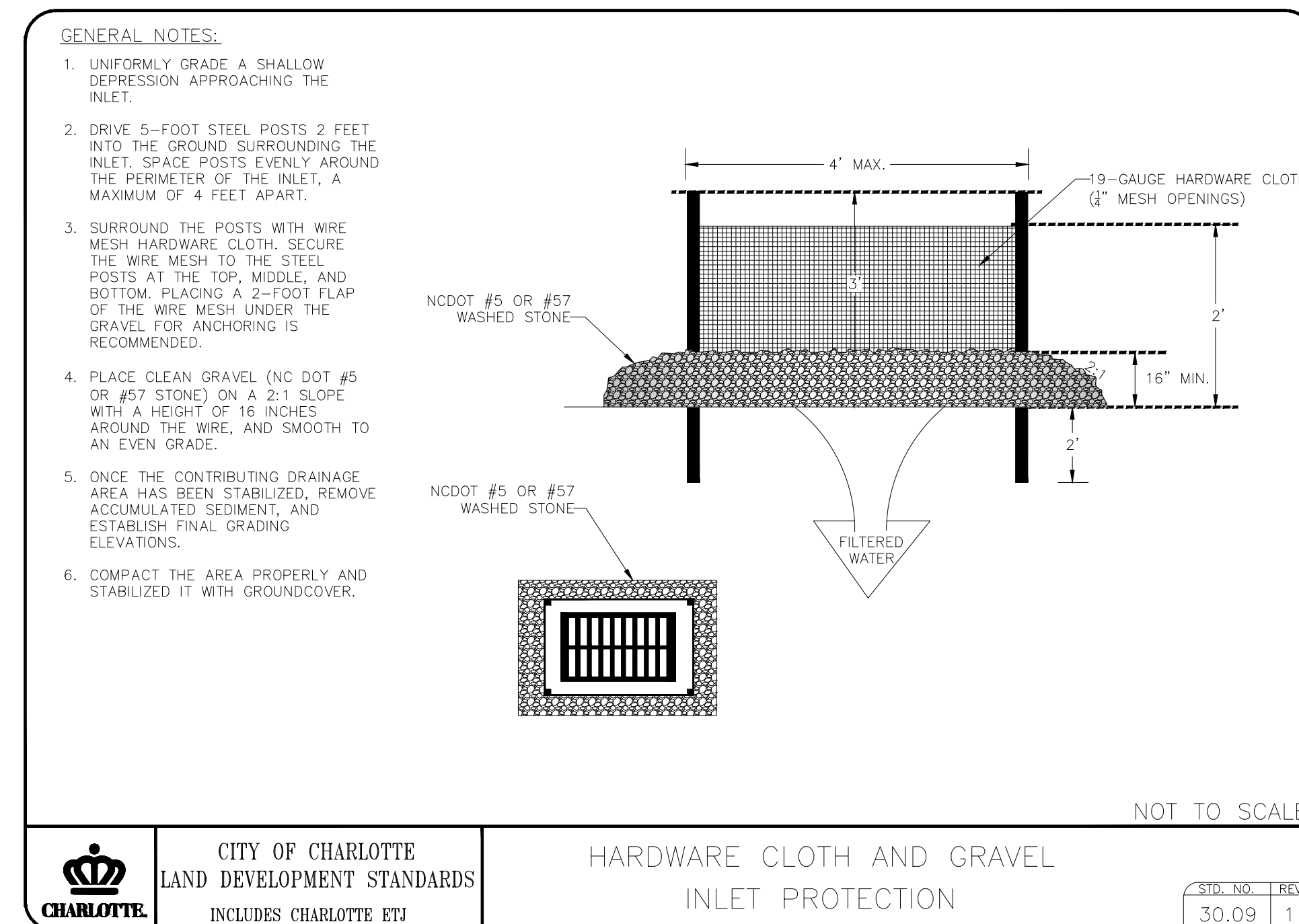
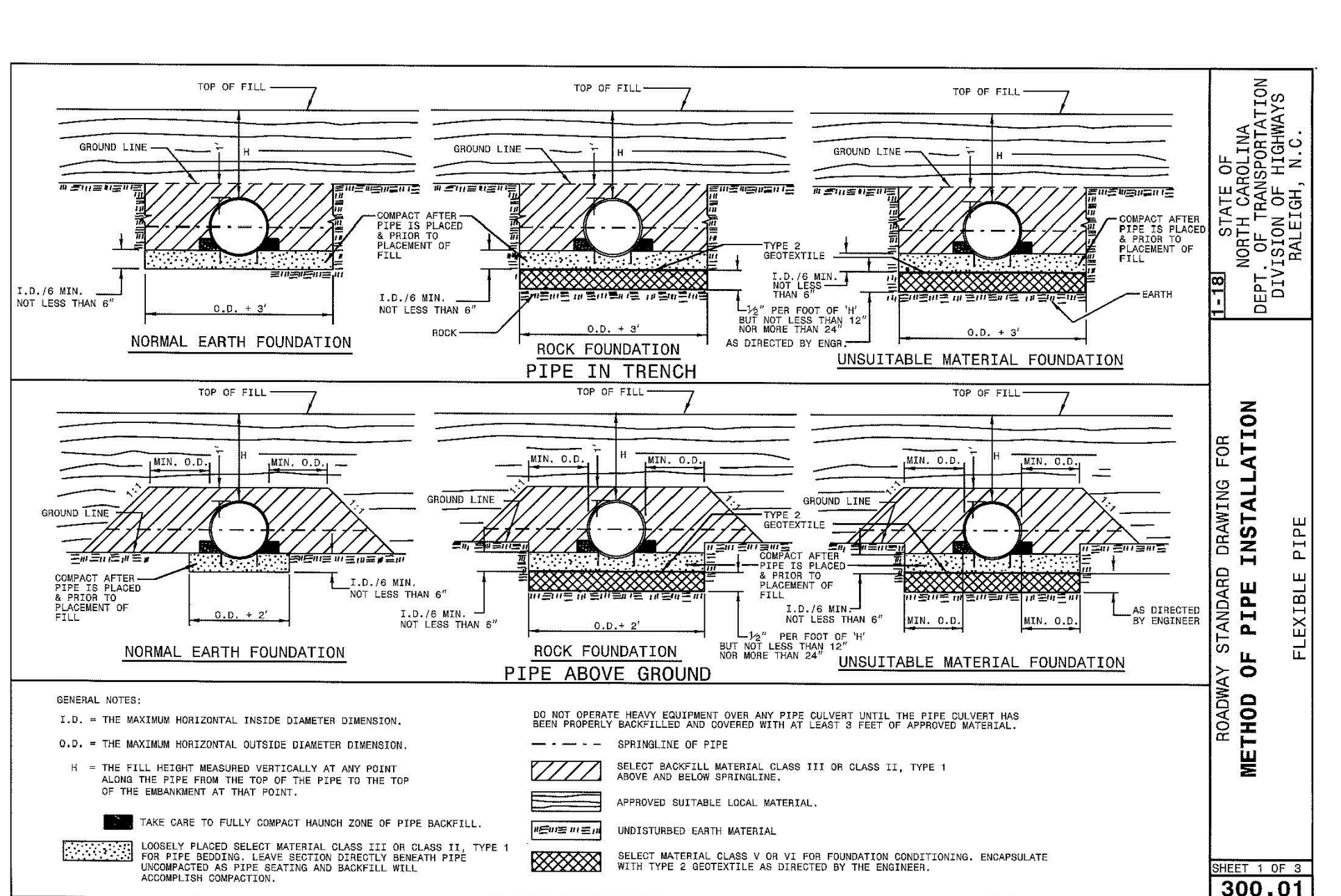
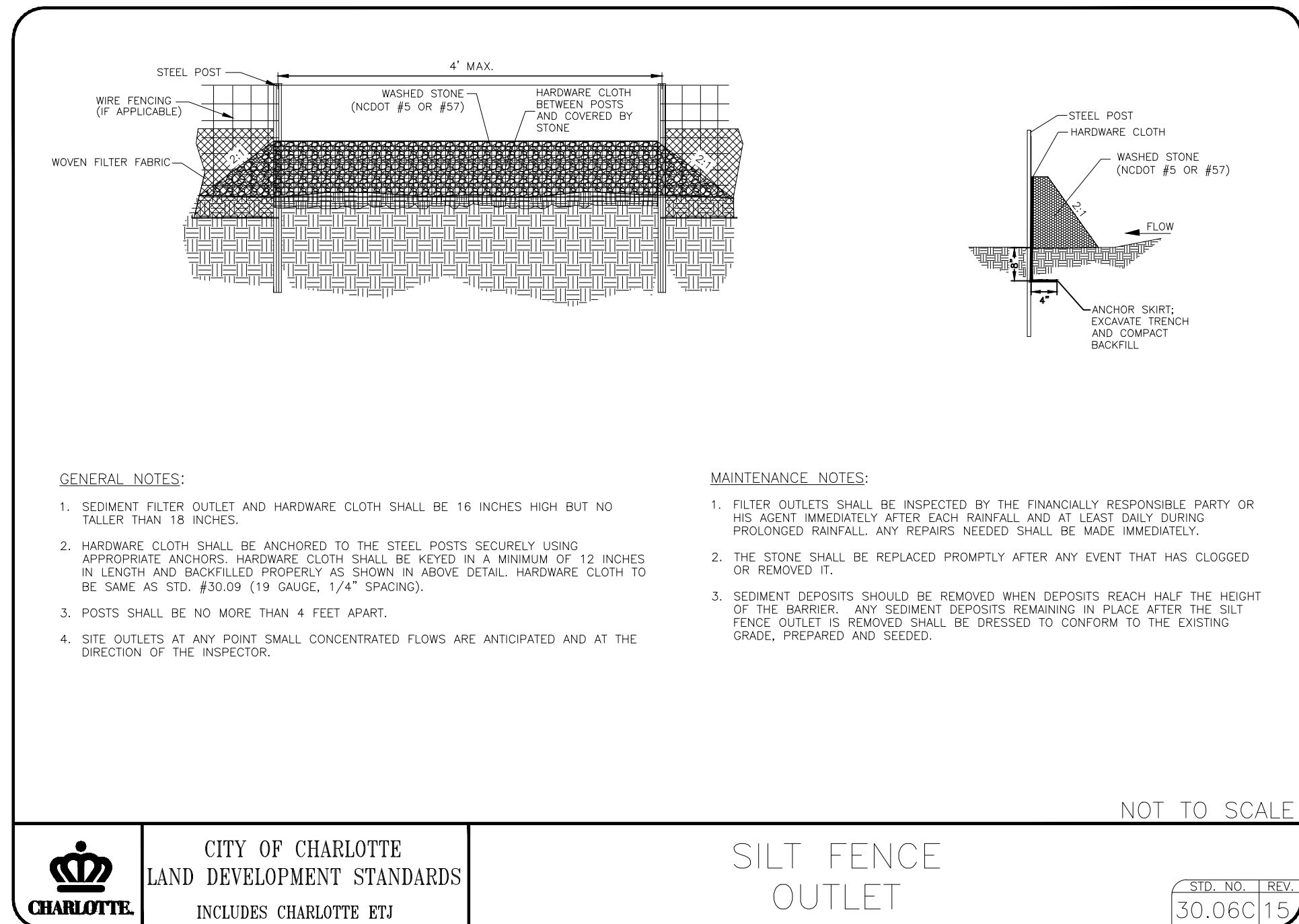
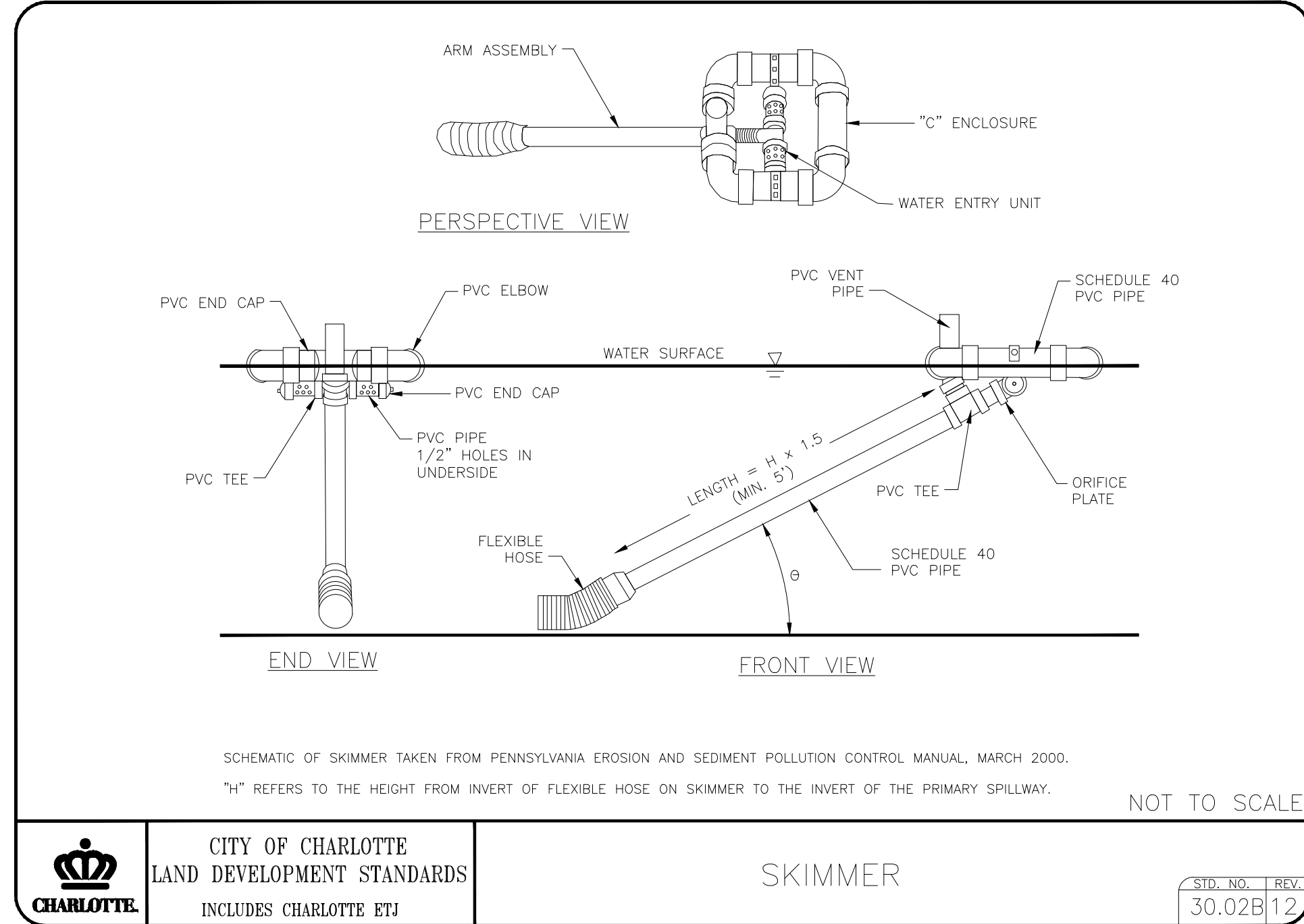
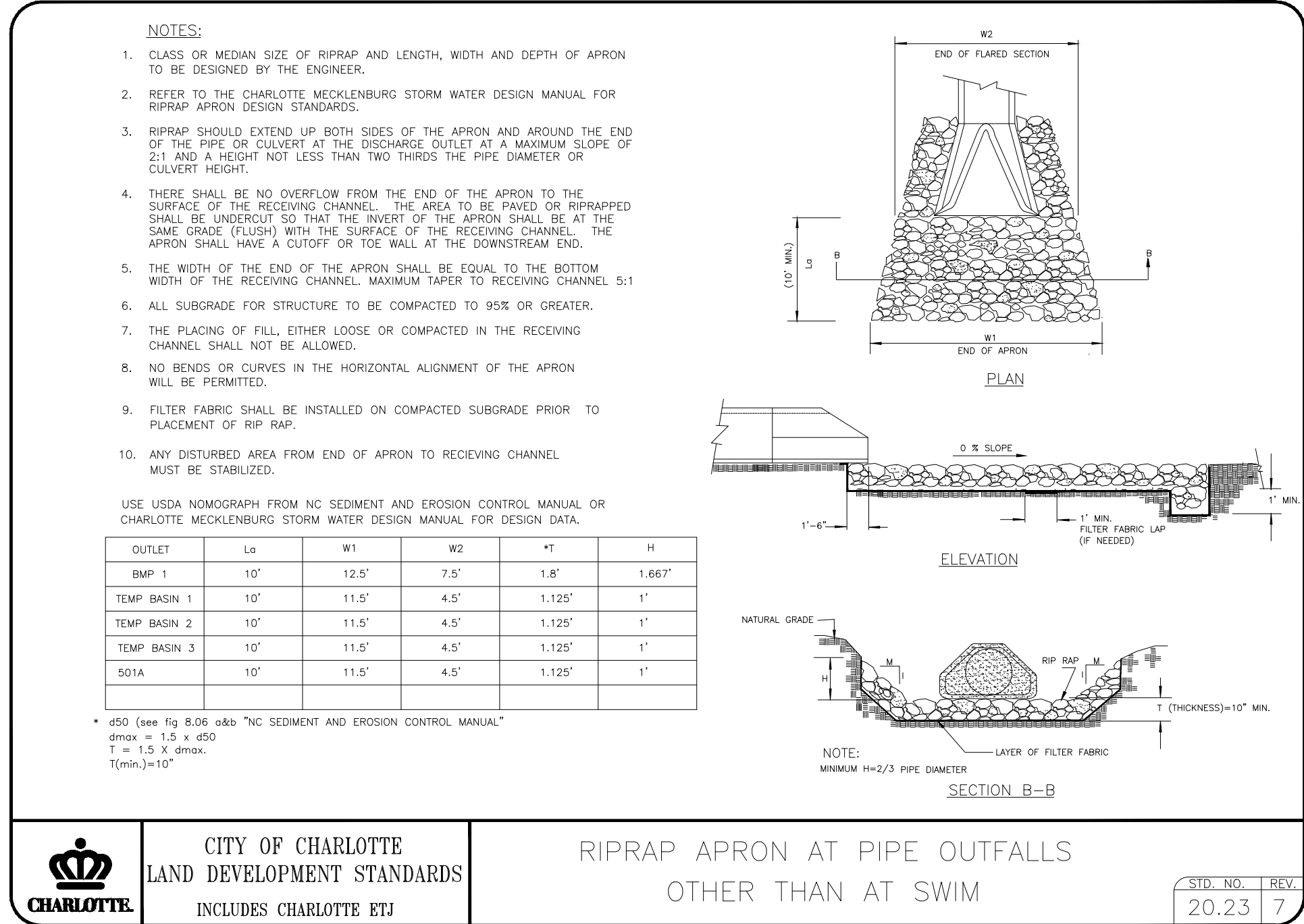
C-716











Cardno

CHARLOTTE
9800 SOUTHERN PINE BLVD., SUITE 1
CHARLOTTE, NORTH CAROLINA 28273
TEL: (704) 927-9700 www.cardno.com

CAMBRIDGE PROPERTIES

EROSION CONTROL DETAILS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

BY: [Signature]
DATE: 07/06/2018
DESCRIPTION: [Signature]
DATE: 07/06/2018
DRAWN: MAH
DESIGNED: ANB
CHECKED: RLC
PROJECT #: CAMB17001

SHEET TITLE
EROSION CONTROL DETAILS
SHEET NUMBER
C-900

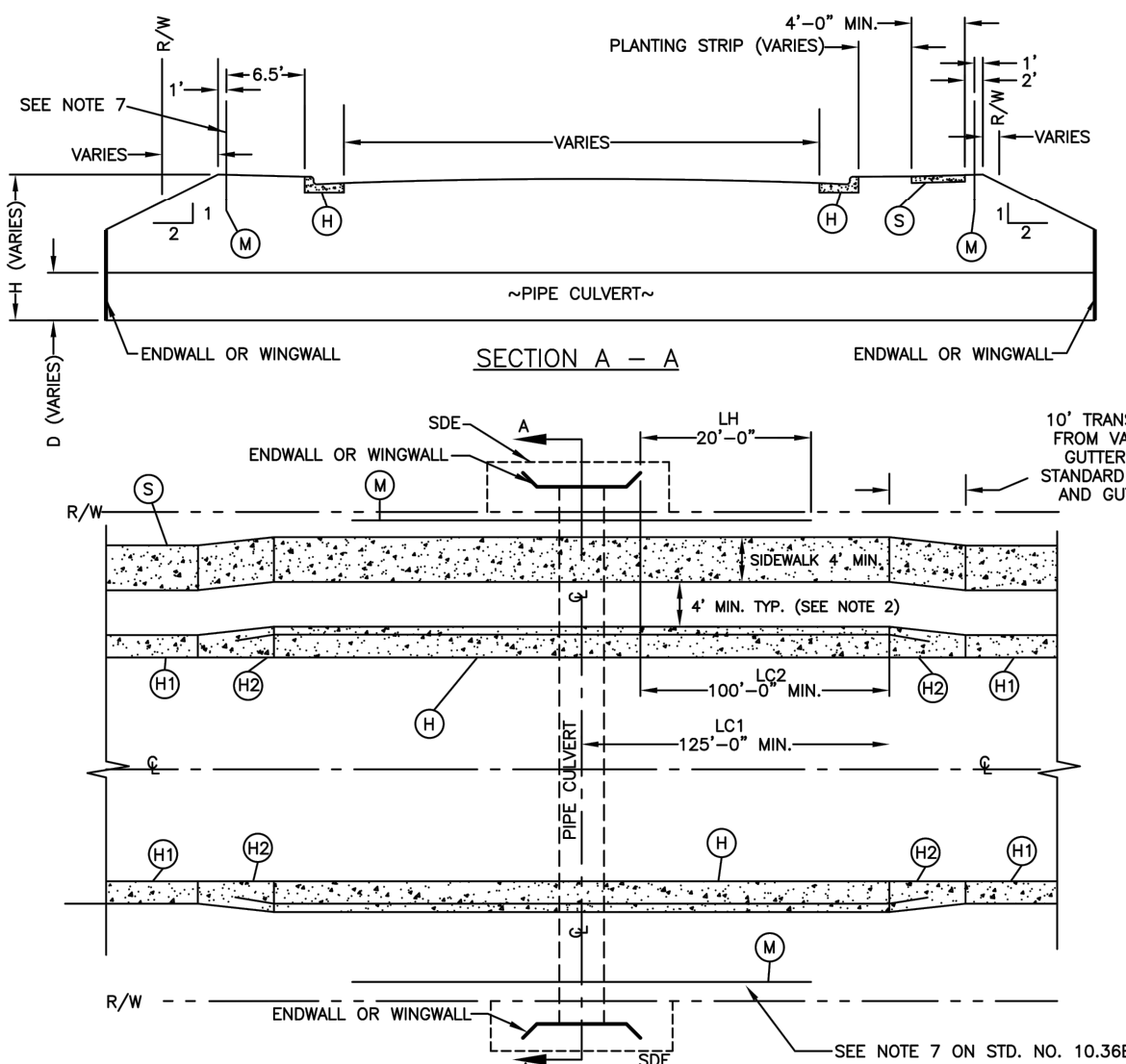
- (H) 2'-6" or 2'-0" STANDARD CURB AND GUTTER, STD. PER 10.17A
- (M) SAFETY RAIL, STD. 50.04A & 50.04B
- (S) 4'-0" (MIN.) SIDEWALK, STD. 10.22
- (H1) 2'-0" VALLEY GUTTER, STD. 10.17B
- (H2) CURB TRANSITION STANDARD CURB AND GUTTER TO 2'-0" VALLEY GUTTER, STD. 10.19

LH = DISTANCE FROM END OF WINGWALL TO END OF SAFETY RAIL

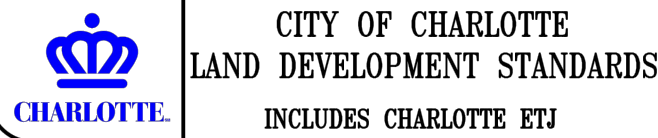
LC1 = DISTANCE FROM $\frac{1}{2}$ OF CULVERT TO END OF 2'-6" CURB AND GUTTER GUTTER.

LC2 = DISTANCE FROM END OF WINGWALL TO END OF 2'-6" CURB AND GUTTER.

- NOTES:
1. SEE STD. NO. 10.36B FOR GENERAL NOTES AND CLEAR ZONE DISTANCES.
2. AN ALTERNATIVE FOR STREETS WITH WIDER PLANTING STRIPS AND SIDEWALKS: IN LIEU OF A PLANTING STRIP ALONG THE CULVERT CROSSING, PROVIDE A MINIMUM 8-FOOT WIDE SIDEWALK LOCATED AT THE BACK OF CURB, FOR LENGTH "LC1" ON EITHER SIDE OF THE CULVERT CENTERLINE.

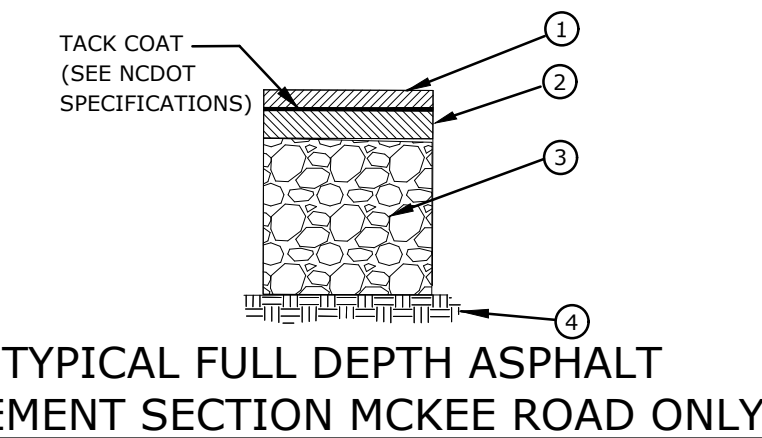
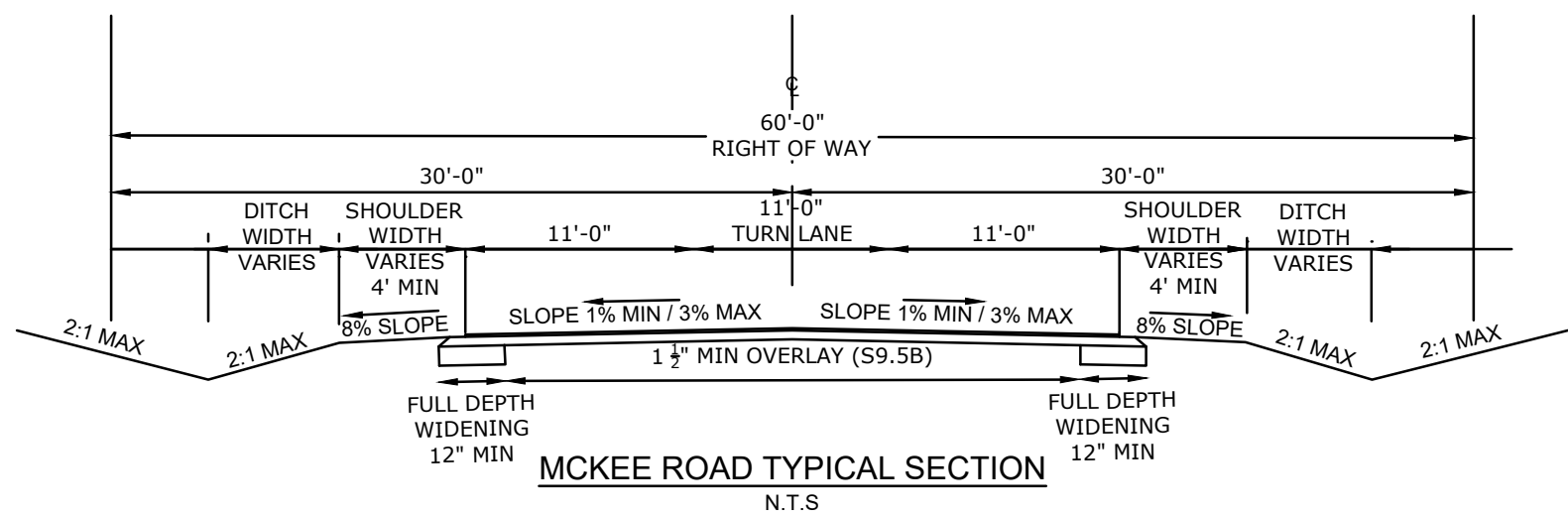


NOT TO SCALE



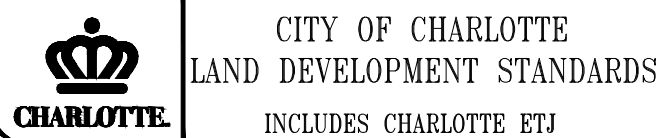
CULVERT CROSSINGS ON RESIDENTIAL AND COMMERCIAL STREETS

STD. NO. 10.36A
REV. 11



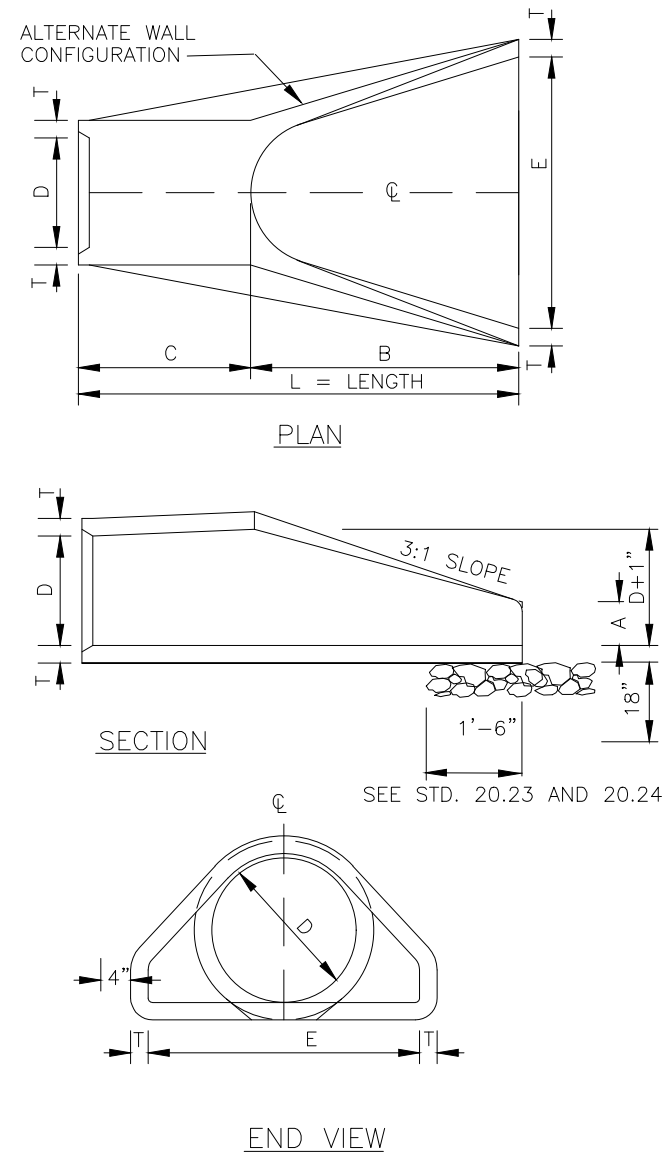
- ① SURFACE COURSE
3'-0" 59.5C IN 1.50" TWO LIFTS
- ② INTERMEDIATE COURSE
4" 119.0C IN ONE LIFT
- ③ BASE COURSE
8" 825.0C IN TWO 4.0" LIFTS
- ④ SUBGRADE
100% COMPACTED SUBGRADE (SEE NCDOT REQUIREMENTS)
ALL CURB AND GUTTER MUST BE SET ON 6" OF ASPHALT BASE COURSE

NOT TO SCALE



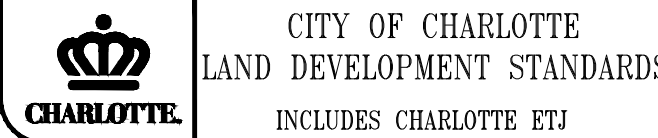
MINIMUM DRAINAGE EASEMENT REQUIREMENTS FOR STORM DRAIN PIPES AND OPEN CHANNELS

STD. NO. 20.30
REV.



- GENERAL NOTES:
1. SEE FORMER NCDOT STANDARD 310.01 FOR DETAILS.
2. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER ASHTO M170, TABLE 2, WALL B.
3. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.
4. PROVIDE TONGUE OR SPIGOT JOINT AT INLET END SECTION.
5. PROVIDE GROOVE OR BELL JOINT AT OUTLET END SECTION.
6. THE DIMENSIONS FOR END SECTIONS SHALL SUBSTANTIALLY AGREE WITH THE TABLE. MINOR VARIATIONS WILL BE PERMITTED BASED ON THE MANUFACTURER'S STANDARD FORMS AND TEMPLATES.
7. NOT TO BE USED IN NCDOT MAINTAINED RIGHT OF WAY.

NOT TO SCALE



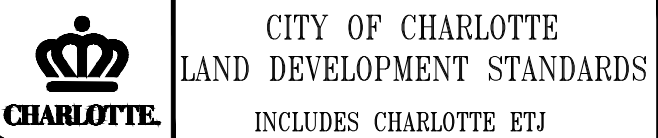
FLARED END SECTION 12" THRU 72" PIPE

STD. NO. 20.22
REV. 1

GENERAL NOTES:

1. ALL CORNERS TO BE CHAMFERED 1" IF CONCRETE.
2. THE CONTRACTOR WILL BE REQUIRED TO PLACE 2-#6 BARS "Y" IN THE TOP OF ALL ENDWALL FOR PIPE CULVERTS 42" AND OVER WITH A MINIMUM 3" COVER AND A LENGTH OF 6" LESS THAN ENDWALL.
3. FORMS ARE TO BE USED FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
4. WALL THICKNESS (T) SHOWN IS NOT TO BE INTERPRETED TO MEAN THE THICKNESS ACCEPTABLE, BUT IS USED ONLY IN COMPUTING ENDWALL QUANTITIES.
5. IF CONTRACTOR ELECTS TO USE CONSTRUCTION JOINT AT BOTTOM OF PIPE, AND POURS BASE SEPARATELY, THE TOP OF BASE SHALL BE LEFT ROUGH.
6. ALL CONCRETE TO BE 3600 P.S.I. COMPRESSIVE STRENGTH.

NOT TO SCALE

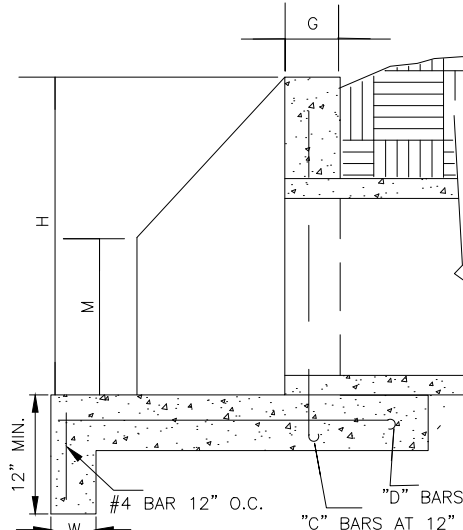


CONCRETE WINGWALL WITH SPLASH PAD

STD. NO. 20.17B
REV.

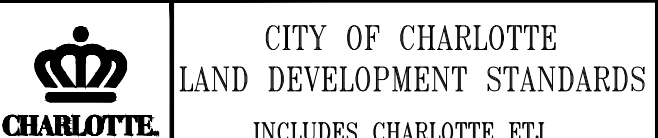
CONCRETE PIPE		DIMENSIONS												
WALL THK.	OUT DIA.	IN DIA.	H	A	B	C	E	F	G	W	K	M		
2 1/4"	19 1/2"	15"	27 1/2"	20"	24"	8"	7 1/2"	4"	4"	8"	17"	10"		
2 1/2"	23"	18 3/4"	31"	20"	24"	8"	9"	4"	4"	8"	17"	12"		
3"	30"	24"	38"	20"	30"	8"	12"	4"	4"	8"	21"	15"		
3 1/2"	37"	30"	45"	20"	44"	12"	15"	6"	8"	8"	31"	18"		
4"	44"	36"	52"	32"	44"	12"	18"	6"	8"	8"	31"	22"		
4 1/2"	51"	42"	59"	32"	48"	12"	21"	6"	8"	8"	34"	26"		
5"	58"	48"	66"	32"	48"	12"	24"	6"	8"	8"	34"	29"		
5 1/2"	65"	54"	73"	32"	54"	12"	27"	6"	8"	8"	38"	33"		
6"	72"	60"	80"	36"	60"	12"	30"	8"	12"	12"	48"	36"		
6 1/2"	79"	66"	87"	36"	72"	12"	33"	8"	12"	12"	51"	40"		
7"	86"	72"	94"	36"	78"	12"	36"	8"	12"	12"	56"	43"		

REINFORCING					
DIA.	"C" BAR		"D" BAR		
	NO.	LG.	NO.	LG.	
15"	4	2'-0"	4	1'-11"	
18"	4	2'-3"	4	2'-2"	
24"	4	2'-9"	4	2'-8"	
30"	4	3'-3"	4	3'-2"	
36"	4	3'-9"	4	3'-8"	
42"	4	4'-3"	4	4'-2"	
48"	4	4'-9"	4	4'-8"	
54"	4	5'-3"	4	5'-2"	
60"	4	5'-9"	4	5'-8"	
66"	4	6'-3"	4	6'-2"	
72"	4	6'-9"	4	6'-8"	



SIDE VIEW

NOT TO SCALE

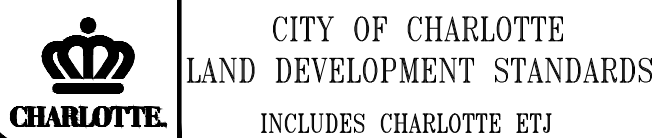


CONCRETE WINGWALL WITH SPLASH PAD

STD. NO. 20.17A
REV. 8

DWG.	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
840.31	CONCRETE JUNCTION BOX (WITH OPTIONAL MANHOLE) 12" THRU 66" PIPE	NOTE 1: OPTIONAL MANHOLE IS REQUIRED
840.32	BRICK JUNCTION BOX 12" THRU 66" PIPE	NOTE 1: OPTIONAL MANHOLE IS REQUIRED
840.34	TRAFFIC BEARING JUNCTION BOX FOR USE WITH PIPES 42" AND UNDER	NOTE 1: OPTIONAL MANHOLE IS REQUIRED; AS MEASURED FROM BOTTOM OF TOP SLAB --> FOR JUNCTION BOX HEIGHT 0'-4"8" USE 8" THICK WALL, FROM 4'8" HEIGHT TO 10' HEIGHT, USE 12" THICK WALL. IF PROPOSED STRUCTURE EXCEEDS 12'-0" HEIGHT A SPECIAL DESIGN WILL BE REQUIRED
840.35	TRAFFIC BEARING DROP INLET FOR CAST IRON DOUBLE FRAME AND GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.36	TRAFFIC BEARING DROP INLET FOR STEEL (840.37) DOUBLE FRAME AND GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.37	STEEL GRATE AND FRAME	NOT FOR USE IN PEDESTRIAN AREAS
840.41	SPRING BOX CONCRETE OR BRICK	WAFFLE WALL IS NOT PERMITTED IN ROADWAY, PLANTING STRIPS, OR MEDIANS. ALL OPENINGS SHALL BE PRE-CAST
840.45	PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)	
840.46	TRAFFIC BEARING PRECAST DRAINAGE STRUCTURE	
840.51	BRICK MANHOLE 12" 36" PIPE	
840.52	PRECAST MANHOLE 4", 5" AND 6" DIAMETER 12" THRU 42" PIPE	
840.53	PRECAST MANHOLE WITH MASONRY BASE 12" THRU 42" PIPE	
840.54	MANHOLE FRAME AND COVER	
840.60	DRAINAGE STRUCTURE STEPS	
840.71	CONCRETE PAVED DITCHES	
840.72	PIPE COLLAR	
850.01	CONCRETE PAVED DITCHES	
852.04	METHODS FOR PLACEMENT OF DROP INLETS IN BRASSED MEDIAN (USING 1'-6" CURB AND GUTTER)	
852.05	MEDIAN CURB FOR CATCH BASIN (FOR USE WITH 1'-6" CURB AND GUTTER)	
852.06	METHOD OF PLACEMENT OF DROP INLETS IN CONCRETE ISLANDS	
876.01	RIP RAP IN CHANNELS	
876.03	DRAINAGE DITCHES WITH CLASS "A" RIP RAP	
876.04	DRAINAGE DITCHES WITH CLASS "B" RIP RAP	
310.01	1998 DRAWINGS CONCRETE FLARED END SECTION	

NOTE 1: FOR ALL STRUCTURES -- NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE CITY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL CITY AND ETJ PROJECTS.

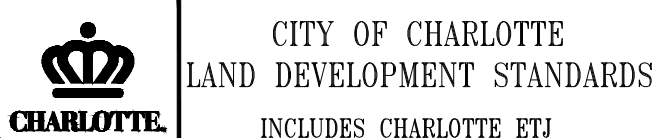


NCDOT STANDARDS APPROVED FOR USE IN THE CITY OF CHARLOTTE AND CHARLOTTE ETJ

STD. NO. 20.00C
REV. 10

DWG.	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
838.45	NOTES FOR REINFORCED CONCRETE ENDWALL STANDARD DRAWINGS	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.51	REINFORCED BRICK ENDWALL FOR SINGLE 54" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.52	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 54" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.57	REINFORCED BRICK ENDWALL FOR SINGLE 60" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.58	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 60" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.63	REINFORCED BRICK ENDWALL FOR SINGLE 66" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.64	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 66" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.69	REINFORCED BRICK ENDWALL FOR SINGLE 72" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.70	REINFORCED BRICK ENDWALL FOR DOUBLE & TRIPLE 72" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.75	NOTES FOR REINFORCED BRICK ENDWALL STANDARD DRAWINGS 838.51 THRU 838.70	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.80	PRECAST CONCRETE ENDWALL FOR SINGLE 12" THRU 72" PIPE 90° SKEW	
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES	
840.01	BRICK CATCH BASIN 15" THRU 54" PIPE	
840.02	CONCRETE CATCH BASIN 12" THRU 54" PIPE	
840.03	FRAME GRATE BASIN 12" THRU 54" PIPE	TYPE F AND G GRATES ARE OPTIONAL WITHIN THE CITY LIMITS.
840.04	CONCRETE OPEN THROAT CATCH BASIN 12" THRU 48" PIPE	NOTE 1: OPENINGS PERMITTED IN 4 SIDES OUTSIDE OF STREET R/W MANHOLE RING AND COVER REQUIRED IN TOP SLAB SEE CLDS 20.05 A&B
840.05	BRICK OPEN THROAT CATCH BASIN 15" THRU 48" PIPE	NOTE 1: OPENINGS PERMITTED IN 4 SIDES OUTSIDE OF STREET R/W MANHOLE RING AND COVER REQUIRED IN TOP SLAB SEE CLDS 20.05 A&B
840.14	CONCRETE DROP INLET 12" THRU 30" PIPE	NOTE 1
840.15	BRICK DROP INLET 12" THRU 30" PIPE	NOTE 1
840.16	DROP INLET FRAME AND GRATE FOR USE WITH DWGS. 840.14 & 840.15	NOTE 1
840.17	CONCRETE GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	NOTE 1
840.18	CONCRETE GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	NOTE 1
840.19	CONCRETE GRATED DROP INLET TYPE "D" 12" THRU 36" PIPE	NOTE 1
840.20	FRAMES AND WIDE SLOT FLAT GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.22	FRAMES AND WIDE SLOT SAG GRATES	NOT FOR USE IN PEDESTRIAN AREAS
840.24	FRAMES AND NARROW SLOT SAG GRATES	
840.25	ANCHORAGE FOR FRAMES BRICK OR CONCRETE	
840.26	BRICK GRATED DROP INLET TYPE "A" 12" THRU 72" PIPE	
840.27	BRICK GRATED DROP INLET TYPE "B" 12" THRU 36" PIPE	
840.28	BRICK GRATED DROP INLET TYPE "D" 12" THRU 36" PIPE	
840.29	FRAMES AND NARROW SLOT FLAT GRATES	
840.30	DRIVEWAY DROP INLET	

NOTE 1: FOR ALL STRUCTURES -- NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE CITY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL CITY AND ETJ PROJECTS.

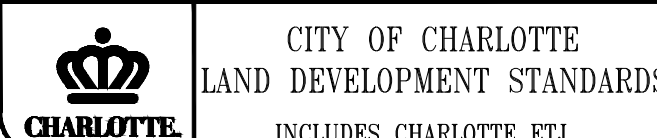


NCDOT STANDARDS APPROVED FOR USE IN THE CITY OF CHARLOTTE AND CHARLOTTE ETJ

STD. NO. 20.00B
REV. 5

DWG.	SHEET TITLE	SPECIAL REQUIREMENTS AND NOTES
310.02	METHOD OF PIPE INSTALLATION	
310.03	CROSS PIPE END SECTION--PRECAST CONCRETE FOR 15" TO 24" PIPE	REQUIRED IN RIGHT OF WAY WITHIN THE ETJ
310.10	DRIVEWAY PIPE CONSTRUCTION USING NO SPECIAL END SECTIONS	REQUIRED IN RIGHT OF WAY WITHIN THE ETJ
815.03	PIPE UNDERDRAN AND BLIND DRAIN	ONLY AT LOCATIONS APPROVED BY THE CITY ENGINEER
815.03	GEOCOMPOSITE SHOULDER DRAIN	
838.01	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
838.02	15" THRU 48" PIPE 90° SKEW	NOTE 1
838.04	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
838.05	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE	NOTE 1
838.06	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 17"x13" THRU 71"x47"	NOTE 1
838.07	71"x47" ARCH PIPE	NOTE 1
838.07	CONCRETE ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
838.08	40"x31" THRU 66"x51" PIPE ARCH 90° SKEW	NOTE 1
838.08	CONCRETE "L" ENDWALL FOR SINGLE PIPE CULVERTS 40"x32"	NOTE 1
838.10	CONCRETE ENDWALL FOR OUTFALL 4'-6" OR 8" PIPE	NOTE 1
838.11	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS	NOTE 1
838.14	15" THRU 48" 90° SKEW	NOTE 1
838.14	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 17"x31"	NOTE 1
838.15	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 15" THRU 48" PIPE	NOTE 1
838.16	BRICK "L" ENDWALL FOR SINGLE PIPE CULVERTS 17"x13" THRU	NOTE 1
838.17	71"x47" PIPE ARCH	NOTE 1
838.17	BRICK ENDWALL FOR SINGLE AND DOUBLE PIPE CULVERTS 40"x31"	NOTE 1
838.18	THRU 66"x51" PIPE ARCH 90° SKEW	NOTE 1
838.18	BRICK ENDWALL FOR SINGLE PIPE CULVERTS 40"x31" THRU	NOTE 1
838.20	66"x51" PIPE ARCH 90° SKEW	NOTE 1
838.20	BRICK ENDWALL FOR OUTFALL 4", 6" AND 8" PIPE	NOTE 1
838.21	REINFORCED CONCRETE ENDWALL FOR SINGLE 54" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.22	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 54" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.27	REINFORCED CONCRETE ENDWALL FOR SINGLE 60" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.28	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 60" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.33	REINFORCED CONCRETE ENDWALL FOR SINGLE 66" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.34	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 66" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.39	REINFORCED CONCRETE ENDWALL FOR SINGLE 72" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD
838.40	REINFORCED CONCRETE ENDWALL FOR DOUBLE & TRIPLE 72" PIPE 90° SKEW	NOTE 1 SEE CLDS 20.17 FOR SPLASH PAD

NOTE 1: FOR ALL STRUCTURES -- NCDOT REQUIRES CLASS B CONCRETE (2500PSI). THE CITY REQUIRES 3600 PSI CONCRETE STRENGTH @ 28 DAYS. 3600 PSI CONCRETE SHALL BE USED IN ALL CITY AND ETJ PROJECTS.

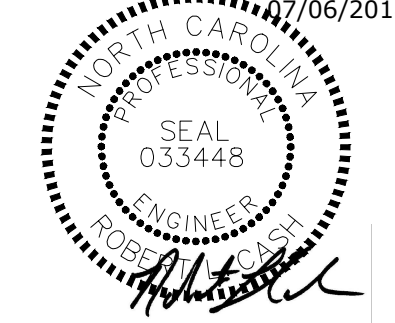


NCDOT STANDARDS APPROVED FOR USE IN THE CITY OF CHARLOTTE AND CHARLOTTE ETJ

STD. NO. 20.00A
REV. 11

SITE DETAILS
THE POND AT MCKEE GLEN
CAMBRIDGE PROPERTIES
CITY OF CHARLOTTE, NORTH CAROLINA

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE

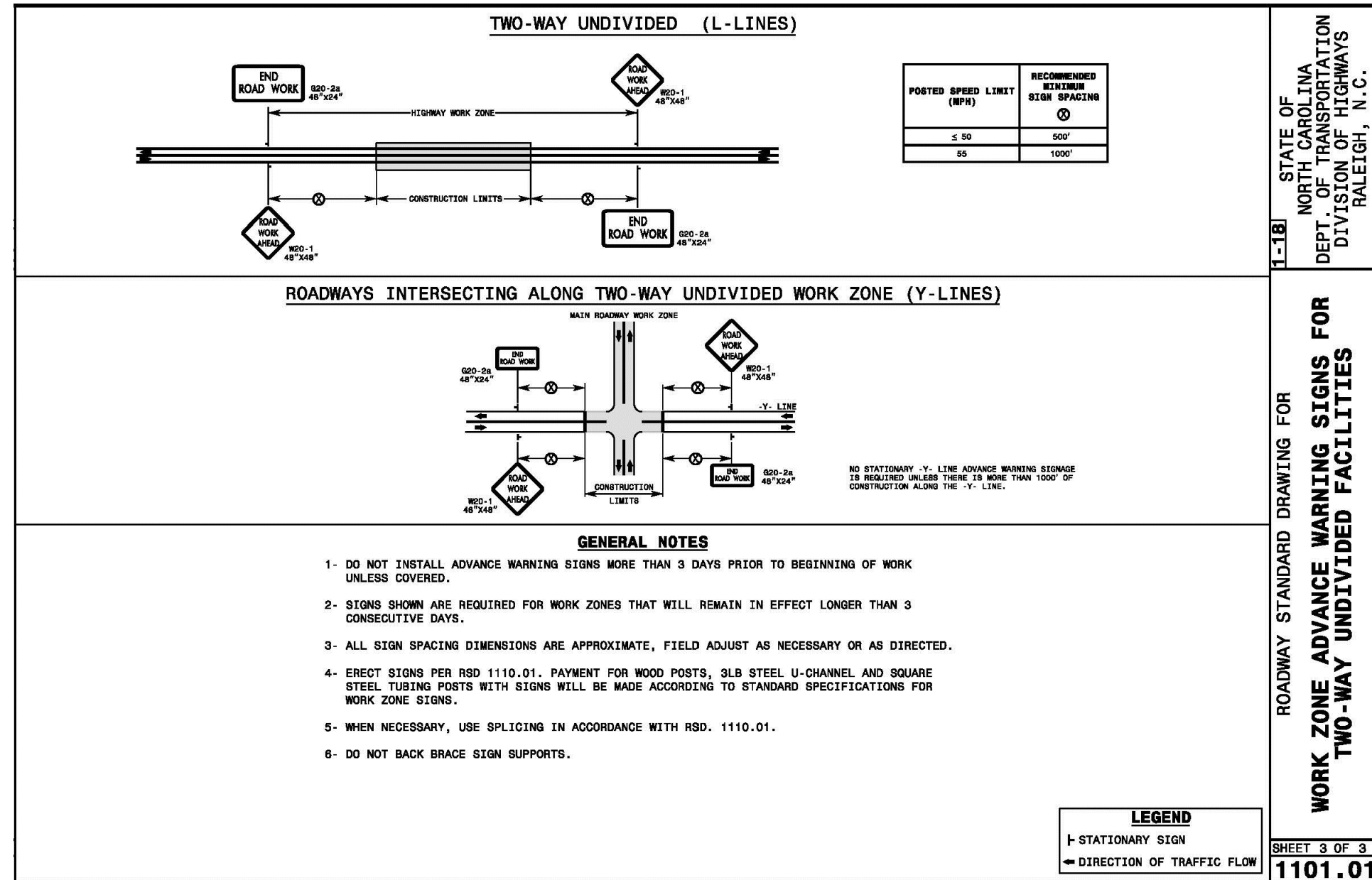


ROBERT L. CASH, P.E.
NC LICENSE NO. 033448

DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

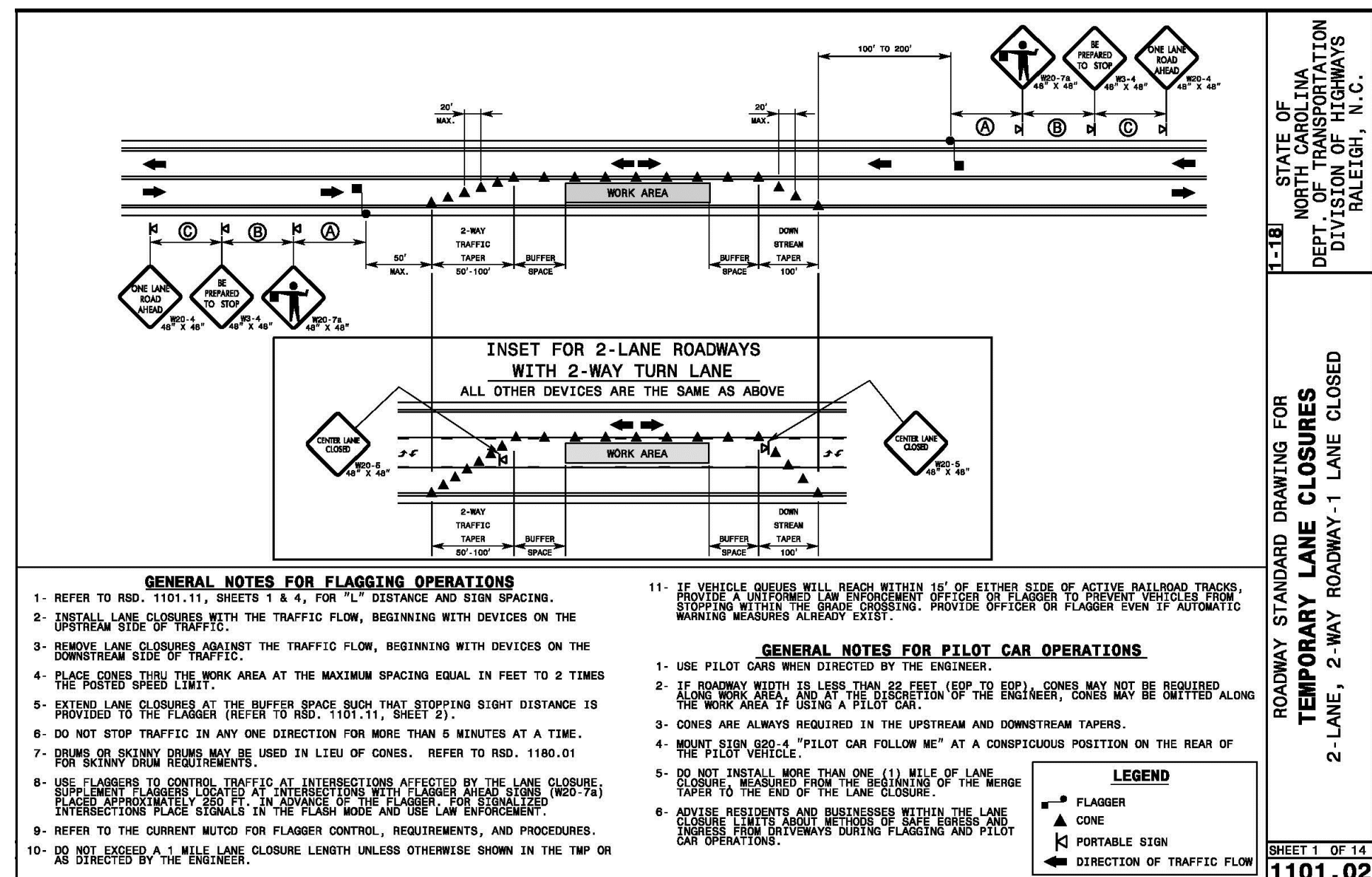
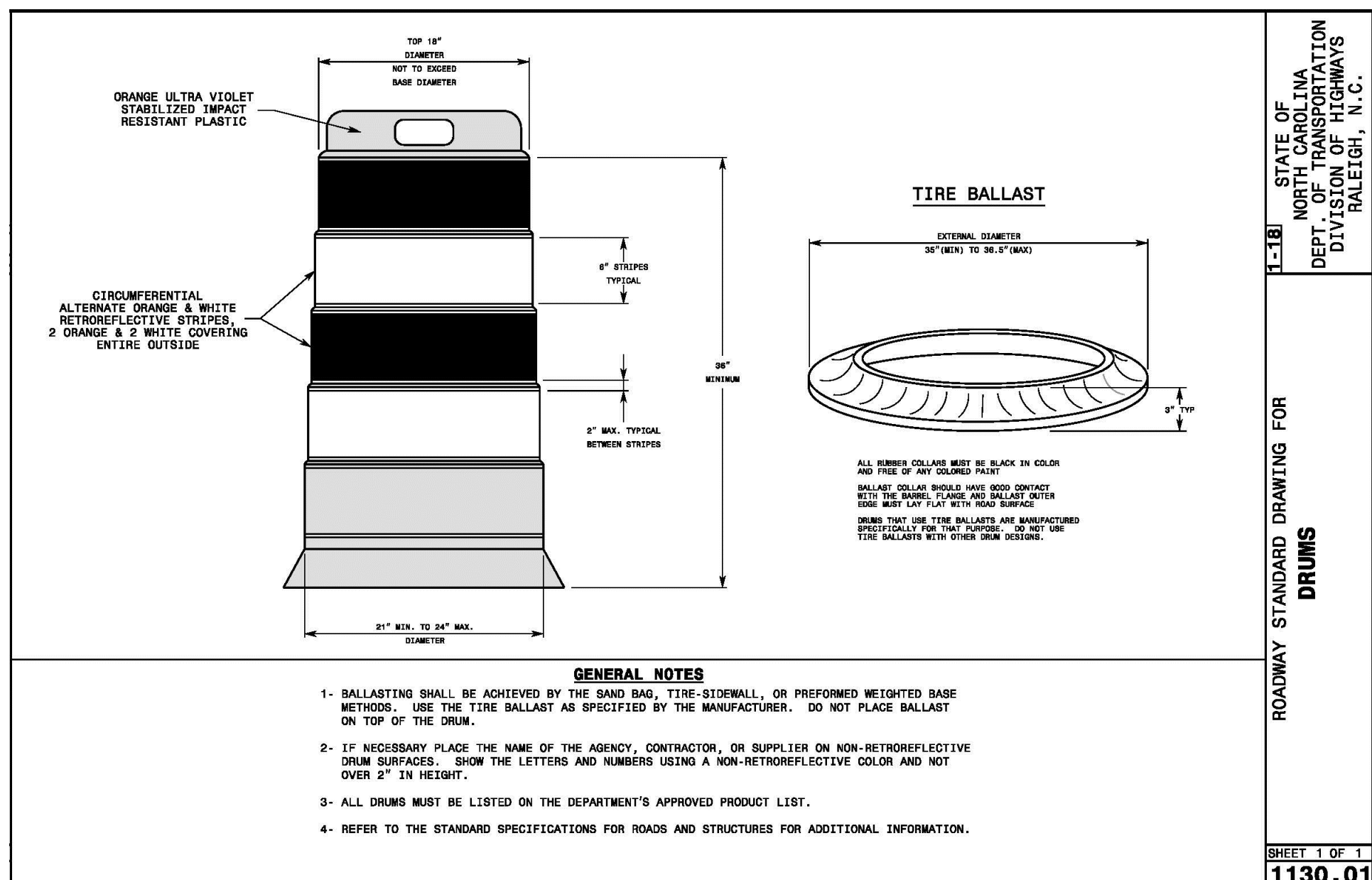
SITE DETAILS
SHEET NUMBER

C-904

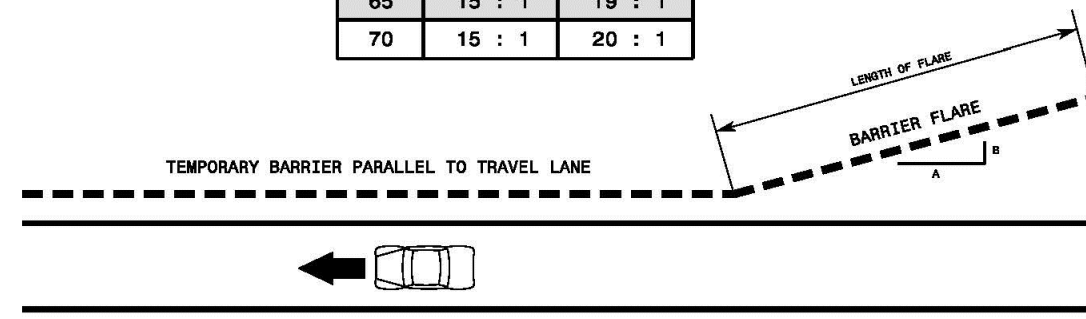


DESIGN SPEED (MPH)	MINIMUM STAGT DISTANCE		MINIMUM LONGITUDINAL BUFFER SPACE (FEET)
	STOPPING STAGT DISTANCE (FEET)	PARING STAGT DISTANCE (FEET)	
30	200	1090	85
35	250	1280	120
40	305	1470	155
45	360	1625	195
50	425	1835	240
55	485	1985	290
60	570	2135	345
65	645	2335	405
70	735	2440	470
75	820	2590	540
80	910	2685	615

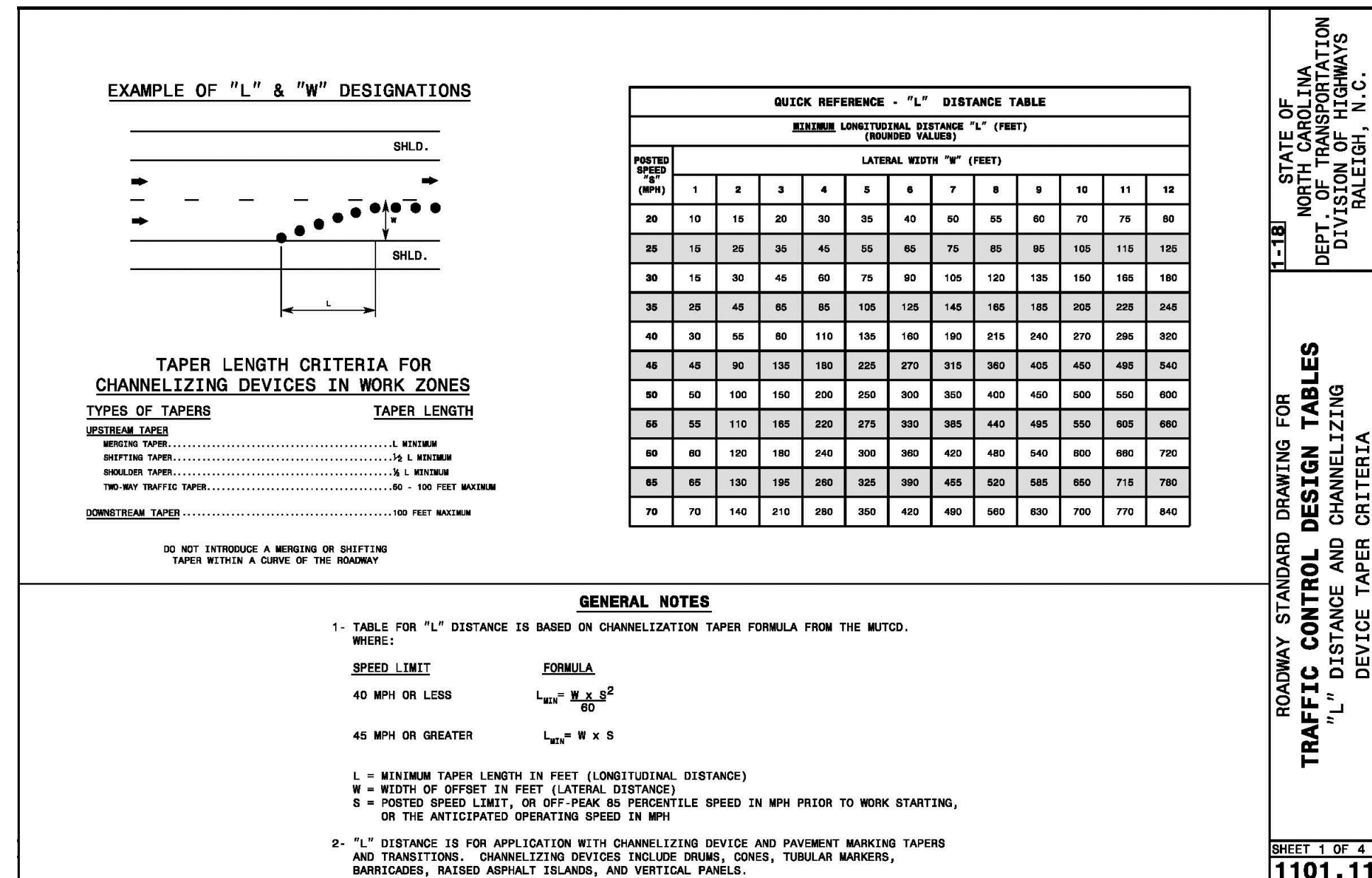
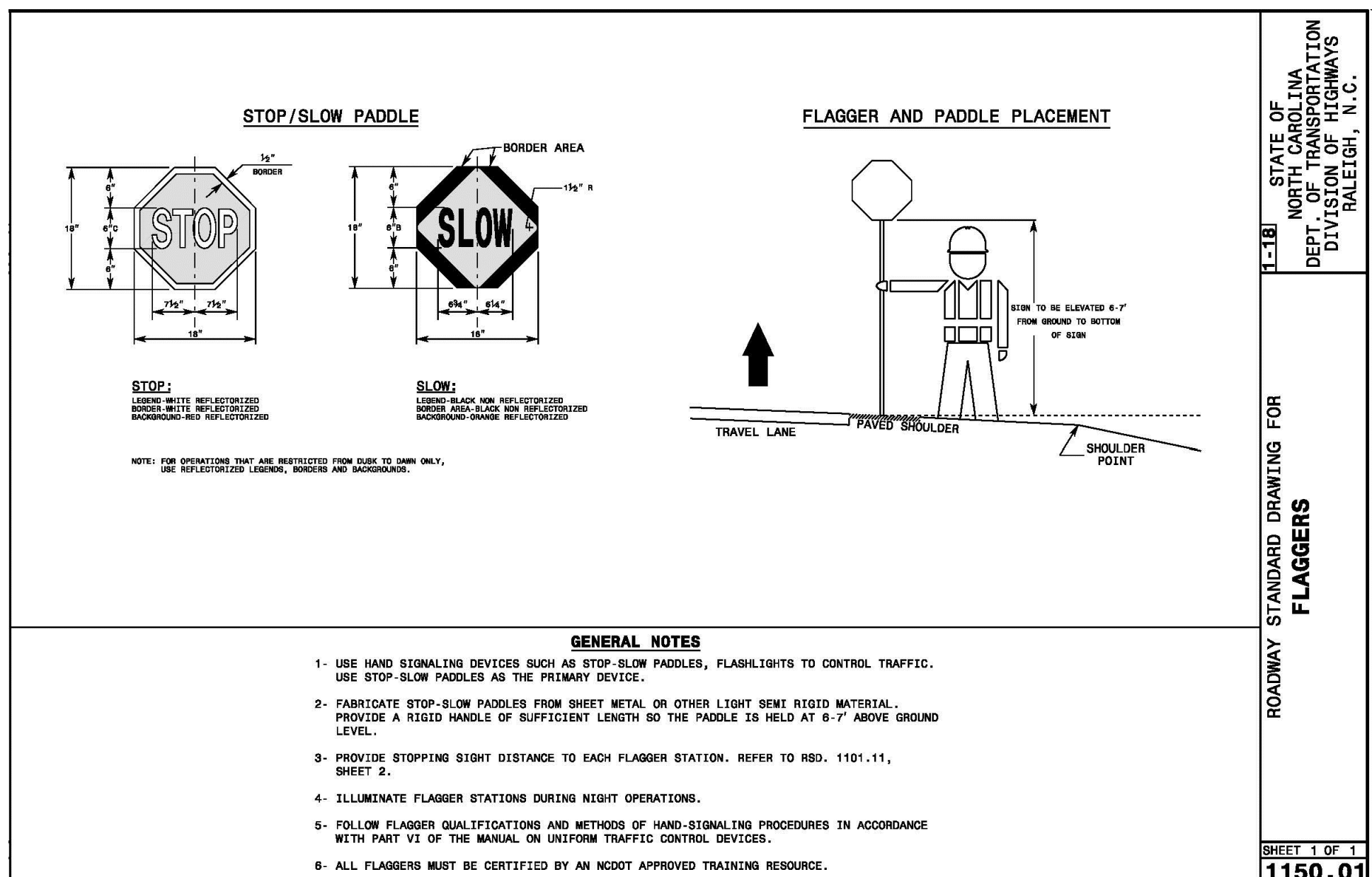
- [illegible]



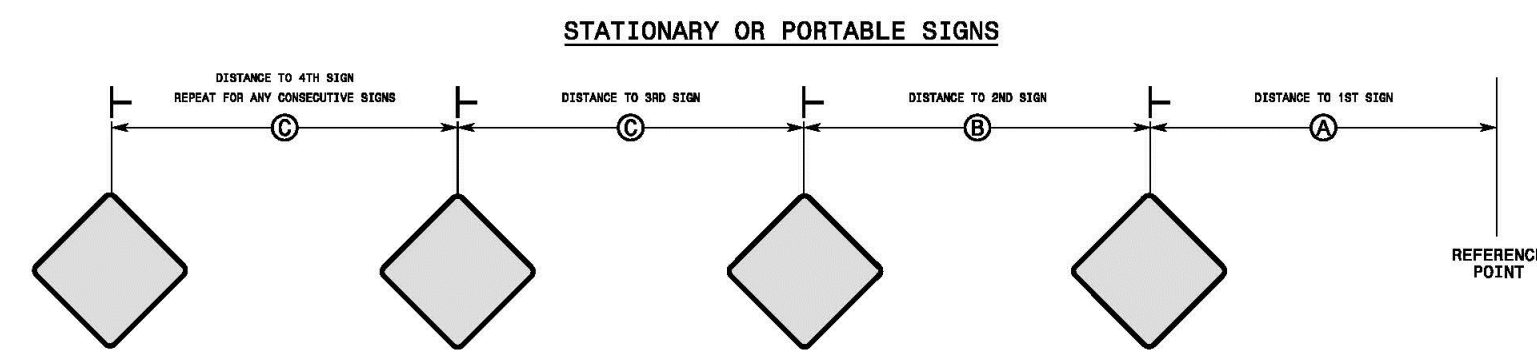
TEMPORARY BARRIER FLARE RATES		
POSTED SPEED LIMIT (MPH)	UNANCHORED (A:B)	ANCHORED (A:B)
≤ 30	7 : 1	8 : 1
35	8 : 1	9 : 1
40	8 : 1	10 : 1
45	10 : 1	12 : 1
50	11 : 1	14 : 1
55	12 : 1	16 : 1
60	14 : 1	18 : 1
65	15 : 1	19 : 1
70	15 : 1	20 : 1



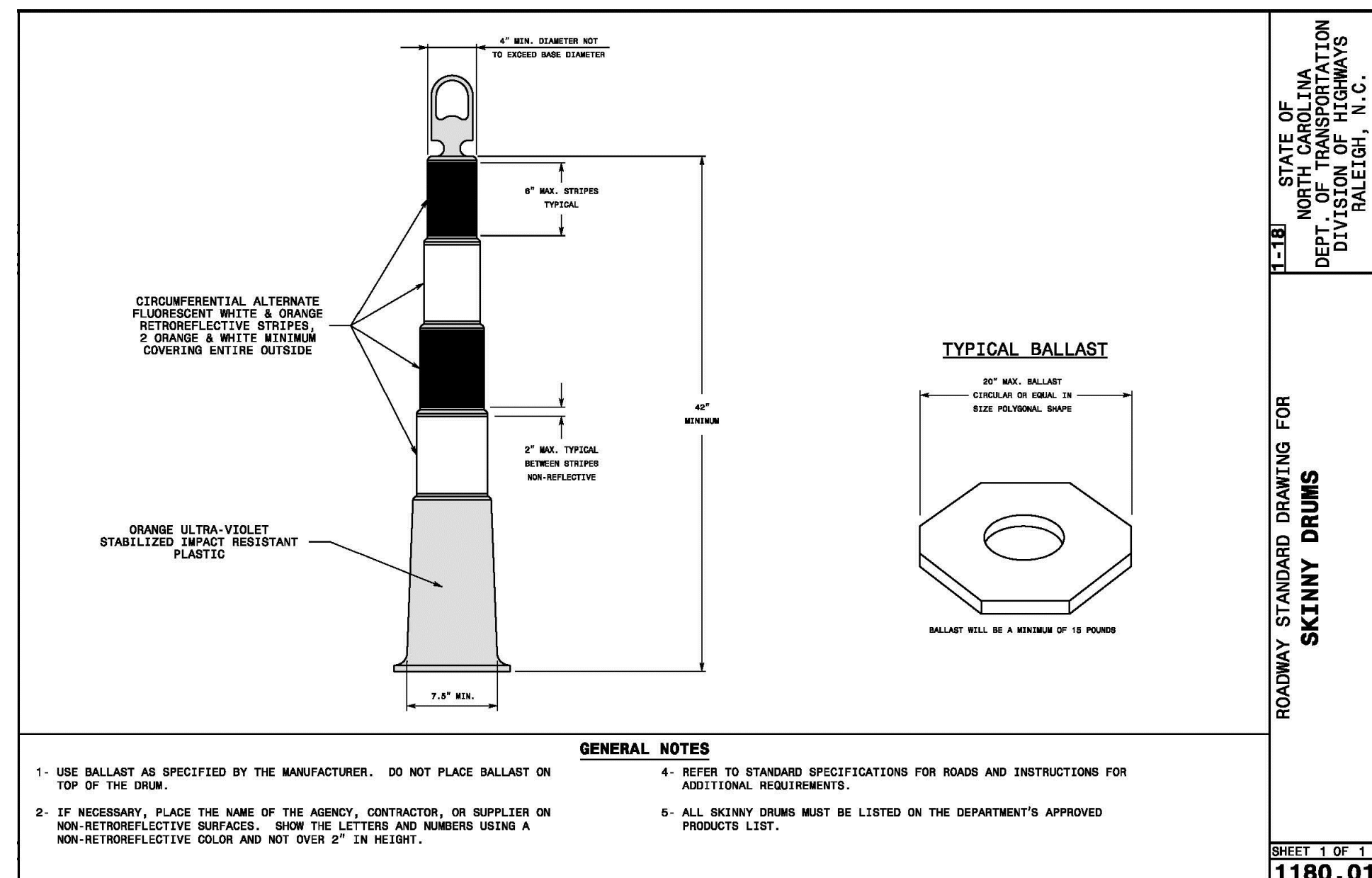
- GENERAL NOTES**
- 1- REFER TO THE 2011 ROADSIDE DESIGN GUIDE OR THE LATEST EDITION.
 - 2- A BARRIER IS CONSIDERED FLARED WHEN IT IS NOT PARALLEL TO THE EDGE OF THE TRAVELWAY

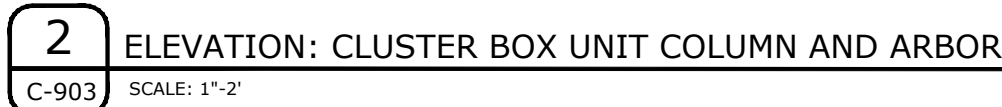


ADVANCE WARNING SIGN SPACING CHART			
POSTED SPEED LIMIT (MPH)	RECOMMENDED DISTANCE BETWEEN SIGNS (FEET):		
	(A)	(B)	(C)
≤ 35	200	200	200
40-50	350	350	350
55	500	500	500
CONTROLLED ACCESS ROADS (≥ 55)	1000	1500	2700



- GENERAL NOTES**
- 1- REFER TO 2009 MUTCD OR THE LATEST EDITION.
 - 2- USE THIS STANDARD DRAWING IN CONJUNCTION WITH OTHER TRAFFIC CONTROL ROADWAY STANDARD DRAWINGS. SIGN DIMENSIONS DISTANCES A, B, C, ARE SPECIFIED.
 - 3- APPLY THE ADVANCE WARNING SIGN SPACING CHART WHERE A SERIES OF 2 OR MORE SIGNS ARE USED. ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE. FIELD ADJUST AS VARIOUS CONDITIONS OCCUR, SUCH AS LIMITED SIGHT DISTANCE, OBSTRUCTION INTERFERENCES, ETC.





CHARLOTTE URBAN FORESTRY -
TREE PLANTING AND
PRESERVATION REQUIREMENTS
(UPDATED 10/10/16)

PLANT MATERIAL

- MINIMUM TREE SIZE AT PLANTING IS 2" CALIPER AND 8' TALL FOR SINGLE-STEM TREES. ALL MULTI-STEM PLANTS MUST BE TREE FORM, MAXIMUM 3 TO 5 TRUNKS, AND MINIMUM 10' TALL. WHERE 3" SINGLE-STEM CALIPER TREES ARE SPECIFIED/REQUIRED THE MINIMUM HEIGHT SHALL BE 10' TALL. IF MULTI-STEM TREES ARE SPECIFIED THEN THEY SHALL BE A MINIMUM OF 12' TALL.
- ALL NEW TREES MUST HAVE STRAIGHT TRUNKS WITH STRONG CENTRAL LEADERS INTACT TO THE TOP OF THE CROWN UNLESS MULTI-STEM TREES ARE SPECIFIED. ALL REQUIRED TREES SHALL BE TYPICAL OF THEIR SPECIES AND VARIETY, HAVE NORMAL GROWTH HABITS, HAVE WELL-DEVELOPED BRANCHES, BE VIGOROUS AND HAVE FIBROUS ROOT SYSTEMS. TREES WITH MAJOR GIRDLING ROOTS WILL NOT BE ACCEPTED. TREES WITH CO-DOMINANT BRANCHING WILL NOT BE ACCEPTED. TREES THAT HAVE BEEN SHEARED, TOPPED OR CUT BACK TO MULTIPLY THE BRANCHING STRUCTURE WILL NOT BE ACCEPTED. TREES SHALL BE FREE OF ABRASIONS, DAMAGE, DISEASE, PESTS AND CRACKS. ALL PRUNING CUTS GREATER THAN 1/2" INCH DIAMETER SHALL HAVE CALLUS TISSUE FORMED PRIOR TO PLANTING. NO PRUNING CUT ON THE TRUNK SHALL BE MORE THAN ONE-HALF THE DIAMETER OF THE CENTRAL LEADER AT THE HEIGHT WHERE THE CUT WAS MADE. ROOT FLARES SHALL BE LOCATED AT GRADE. TREES WITH MORE THAN 2" OF SOIL COVERING THE ROOT BALL/FLARE FROM WILL NOT BE ACCEPTED (CLDS.40.09).
- SIZE OF REQUIRED PLANTS, SPREAD OF ROOTS AND SIZE OF BALLS SHALL BE IN ACCORDANCE WITH ANSI Z60.1 (LATEST EDITION) AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION, EXCEPT WHERE SPECIFIED/AUTHORIZED BY URBAN FORESTRY.
- ALL REQUIRED TREES OF A PARTICULAR SPECIES AND VARIETY SHALL BE UNIFORM IN SIZE AND CONFIGURATION.
- PERIMETER TREES IN URBAN ZONES SHALL BE 3" IN CALIPER AND BE FREE OF BRANCHES UP TO 6' FROM THE TOP OF ROOT CROWN (BALL).
- A MINIMUM OF 50% OF NEW TREES MUST BE NATIVE SPECIES, AND SITES WITH MORE THAN 20 TREES REQUIRED WILL HAVE TO INSTALL MULTIPLE (3 OR MORE) SPECIES PURSUANT TO THE TREE ORDINANCE GUIDELINES.
- 75% OF REQUIRED TREES MUST BE LARGE MATURE SPECIES EXCEPT IN SITUATIONS WITH OVERHEAD POWER LINE CONFLICTS.

PLANTING REQUIREMENTS

- SEE CLDS 40.01 & 40.09 (ON PLAN) FOR DETAILED TREE PLANTING REQUIREMENTS.
- PLASTIC HOSE PARTS WILL NOT BE ACCEPTED FOR TREE STAKING. SEE CLDS 40.01 FOR APPROVED STAKING METHOD/MATERIALS.
- ALL STRAPPING, AND TOP 1/3 OF WIRE BASKET AND BURLAP MUST BE CUT AWAY AND REMOVED FROM ROOT BALL WHEN PLANTING.
- FOR NEW PLANTING AREAS, REMOVE ALL PAVEMENT, GRAVEL SUB-BASE AND CONSTRUCTION DEBRIS; REMOVE COMPACTED SOIL AND ADD 18" NEW TOPSOIL, OR TILL AND AMEND THE TOP 18" OF EXISTING SOIL TO MEET TOPSOIL/PLANTING MIX STANDARDS FOR TREES (WITHIN ENTIRE MINIMUM AREA OF 274 SQUARE FEET).
- TREES PLANTED ON PUBLIC PROPERTY WILL NEED APPROVAL FROM THE CITY ARBORIST AND/OR NCDOT.
- REVIEW SOIL REQUIREMENTS IN THE TREE ORDINANCE GUIDELINES AT: [HTTP://CHARLOTTENC.GOV/LD](http://charlottenc.gov/ld) THEN CLICK TREES.
- UTILITY ISSUES
- IF ANY UTILITY IS BEING INSTALLED IN OR NEAR ANY REQUIRED TREE(S) OR TREE SAVE AREA(S), CALL URBAN FORESTRY SPECIALIST TO RESOLVE PRIOR TO UTILITY INSTALLATION.
- LARGE MATURING TREES MAY NOT BE PLANTED WITHIN 25' OF OVERHEAD POWER DISTRIBUTION OR TRANSMISSION LINES.
- IF TREES CONFLICT WITH ANY UTILITIES OR SIGNS; CALL URBAN FORESTER TO RESOLVE BEFORE PLANTING.
- ADJUST TREE PLANTING LOCATIONS TO AVOID EXISTING UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES.
- NO LIGHT POLES, UTILITIES OR TRANSFORMERS CAN BE INSTALLED IN TREE ISLANDS.
- COMMERCIAL SCALE LIGHTING (> 15' IN HEIGHT) MUST BE A MINIMUM DISTANCE OF 30' FROM A TREE. PEDESTRIAN SCALE LIGHTING (< 15' IN HEIGHT) MUST BE A MINIMUM DISTANCE OF 15' FROM A TREE. SHOW SITE LIGHTING ON LANDSCAPE PLAN.

TREE SAVE AND PRESERVATION

- TREE PROTECTION MUST BE INSTALLED AND VERIFIED BY URBAN FORESTRY PRIOR TO STARTING ANY CONSTRUCTION ACTIVITY.
- SHOW TREE PROTECTION AND TREES SAVE AREAS ON EROSION CONTROL, GRADING AND LANDSCAPE PLAN SHEETS.
- COMMERCIAL TREE SAVE AREAS MUST BE RECORDED ON A FINAL PLAT WITH THE NECKLEBURG COUNTY REGISTER OF DEEDS BEFORE URBAN FORESTRY HOLDS CAN BE RELEASED. A 10' NO BUILD ZONE AROUND TREE SAVE AREAS MUST BE REFERENCED ON THE PLAT.
- TREE SAVE AREAS SHALL BE FREE OF INVASIVE PLANT SPECIES. IF AN AREA PROPOSED FOR TREE SAVE CONTAINS INVASIVE PLANT SPECIES AT TIME OF PROPOSAL, SUCH INVASIVE PLANT SPECIES SHALL BE REMOVED PRIOR TO FINAL CO.
- THE AREA OF ANY EASEMENTS (WATER, SEWER, UTILITY, ETC.) CAN NOT BE COUNTED TOWARD THE TREE SAVE REQUIREMENT.
- ANY ALTERATIONS TO TREE SAVE AREAS MUST BE ACCOMPLISHED WITHOUT MECHANIZED EQUIPMENT.
- NO STRUCTURE WILL BE ALLOWED WITHIN 10' OF TREE SAVE AREAS UNLESS APPROVED BY URBAN FORESTRY.
- ALL TREES ON PUBLIC PROPERTY ARE PROTECTED AND REMOVAL MUST BE PERMITTED BY THE CITY ARBORIST (704)336-4262.
- CONTACT URBAN FORESTRY SPECIALIST PRIOR TO ANY CRANE SET-UP, MACHINERY OPERATION OR TEMPORARY BUILDING ERECTION THAT MAY IMPACT CHARLOTTE TREE ORDINANCE PROTECTED TREES OR TREE SAVE AREAS, INCLUDING TREES LOCATED IN STREET RIGHT OF WAY. IMPACTS MAY INCLUDE BUT ARE NOT LIMITED TO: ENCROACHING WITHIN TREE DRIP-LINES, EXCAVATION, SOIL COMPACTION, TREE TRIMMING, ERECTING AND DISMANTLING OF CONSTRUCTION CRANES.
- SUBMIT REQUIRED CO/HOLD RELEASE FORM AT [HTTP://CHARLOTTENC.GOV/LD](http://charlottenc.gov/ld) FOR AN INSPECTION OF TREE PROTECTION/PLANTING AREAS, A MINIMUM OF 5 DAYS BEFORE THE CO/HOLD RELEASE IS NEEDED.
- VISIT CITY OF CHARLOTTE'S LAND DEVELOPMENT WEBSITE FOR ADDITIONAL INFORMATION AND URBAN FORESTRY REQUIREMENTS: [HTTP://CHARLOTTENC.GOV/LD](http://charlottenc.gov/ld) THEN CLICK TREES.

GENERAL

PERIMETER TREE REQUIREMENTS

SHOW LINEAR FEET OF ROAD FRONTAGE ALONG PUBLIC MAINTAINED RIGHT-OF-WAY, INCLUDING DRIVEWAYS. CALCULATE ONE LARGE MATURING TREE EVERY 40 LINEAR FEET OR FRACTION THEREOF, OR IF OVERHEAD POWER IS PRESENT, ONE SMALL MATURING TREES EVERY 30 FEET OR FRACTION THEREOF.

- STREET: MCKEE ROAD / 905 LFT = 23 TREES REQUIRED (MCKEE ROAD 1542 LFT - DUKE TRANSMISSION LINE EASEMENT 379 LFT - INTERSECTION OF BLUE POND ROAD 120 LFT - INTERSECTION OF REIDHAVEN 120 LFT = 905 LFT.) 12 TREES PROVIDED + EXISTING TREES TO SATISFY STREET TREE REQUIREMENTS
- STREET: HAMSTEAD POND LANE / 607 LFT = 30 TREES REQUIRED (HAMSTEAD POND LANE 727 LFT - INTERSECTION OF REIDHAVEN 120 LFT) = 607 LFT 30 TREES PROVIDED
- STREET: BLUE POND ROAD / 325 LFT = 16 TREES REQUIRED/ 16 TREES PROVIDED
- STREET: REIDHAVEN STREET / 1203 LFT = 60 TREES REQUIRED (REIDHAVEN ST. 1822 LFT - INTERSECTION OF HAMSTEAD POND LANE 120 LFT - DUKE TRANSMISSION LINE EASEMENT 379 LFT - INTERSECTION OF BLUE POND ROAD 120 LFT) = 1203 LFT 61 TREES PROVIDED.

IF OVERHEAD DISTRIBUTION POWER LINES EXIST, ONLY SMALL MATURING TREES ARE ALLOWED WITHIN 25FT. OF LINES.

TREE SAVE AREA (TSA) REQUIREMENTS

A MINIMUM 15 PERCENT OF THE OVERALL COMMERCIAL SITE MUST BE PRESERVED AS TREE SAVE AREA (UNLESS THE SITE FALLS UNDER ONE OF THE EXCEPTIONS).

SITE ZONING: R-5 (CD); WEDGE, CORRIDOR (TRANSIT), CENTER: N/A WEDGE N/A

CALCULATIONS:

TOTAL SITE AREA (ENTIRE SITE) =	25.50	AC.
EXISTING DUKE R/W:	5.79	AC.
EXISTING POND:	0.97	AC.
DEDICATED MCKEE ROAD R/W:	1.05	AC.
DEDICATED ROAD R/W:	3.54	AC.
DEDICATED UTILITY EASEMENTS (SUE AND SANITARY):	0.63	AC.
SITE DEVELOPMENT AREA =	13.52	AC.
TREE SAVE AREA REQUIRED: (15% OF SITE DEVELOPMENT AREA)	2.03	AC.
TOTAL TREE SAVE AREA PROVIDED = (94,609 SQ.FT.)	2.18	AC.
TREE SAVE AREA (UNDISTURBED)= (65,638 SQ.FT.)	1.50	AC.
TREE SAVE AREA (REPLANTED)= (28,971 SQ.FT.)	.67	AC.
NEW TREES TO BE PLANTED TO MEET TSA REQUIREMENTS: (.67 ACRES X 150% = 1.005 ACRES)	18	TREES

PERCENTAGE TREE SAVE AREA = 17.0%

COMMON OPEN SPACE REQUIRED:	2.60	AC.
COMMON OPEN SPACE PROVIDED: (168,350 SQ. FT.)	3.86	AC.
COMMON OPEN SPACE WITHIN UTILITY EASEMENTS AND R/W: (290,697 * .25 = 72,674 SQ. FT.)	1.67	AC.
TOTAL COMMON OPEN SPACE PROVIDED:	5.53	AC.

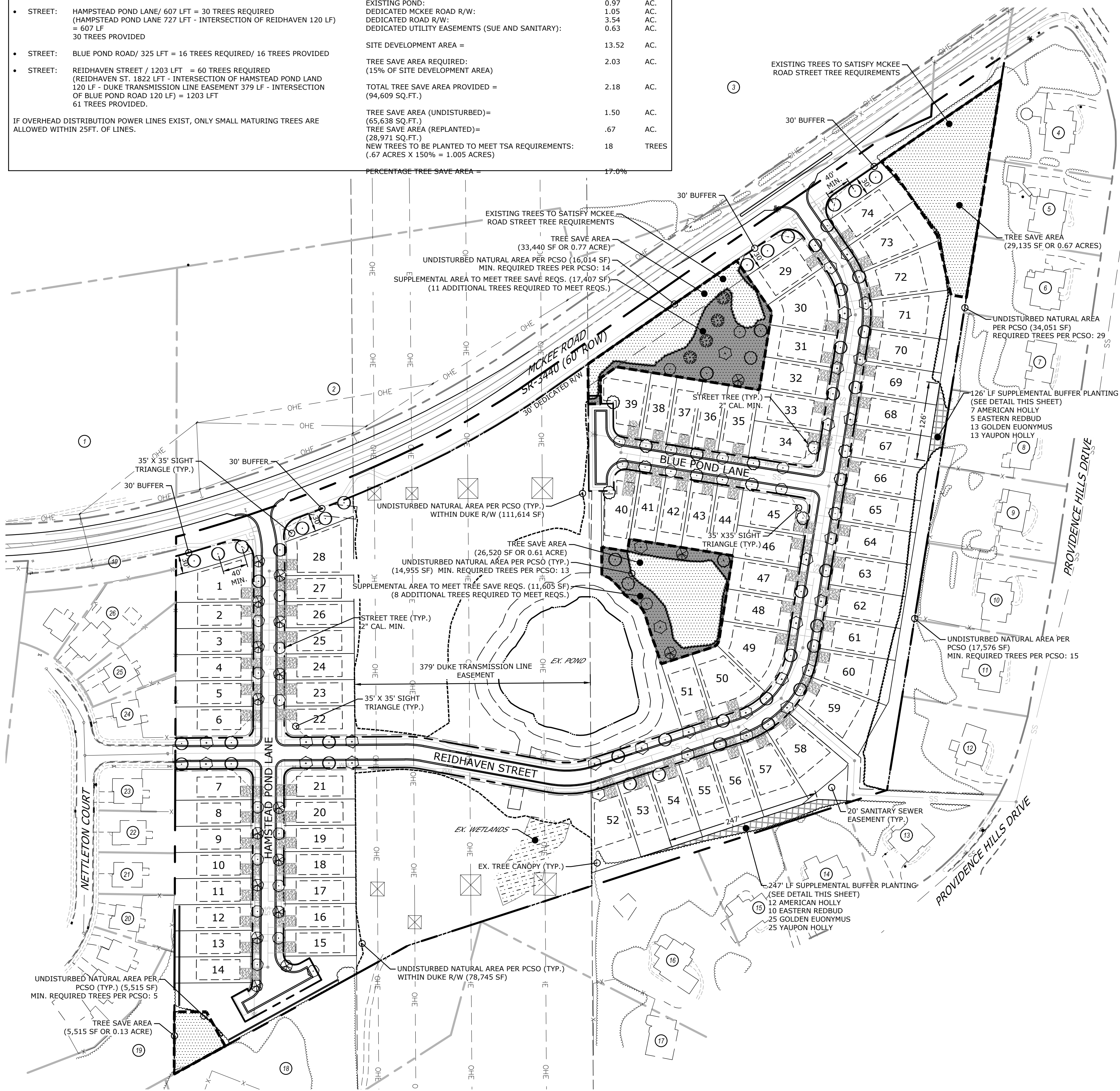
PCSO NATURAL AREA REQUIRED:	4.46	AC.
UNDISTURBED NATURAL AREA (TREED): (2.18 AC. X 100%=)	2.18	AC.
UNDISTURBED NATURAL AREA (DUKE R/W): (3.57 AC. X 25%=)	0.89	AC.
NATURAL AREAS WITH STREET R/W: (1.66 AC. X 25%=)	0.42	AC.
NATURAL AREAS WITHIN UTILITY ESMTS.: (1.97 AC. X 25%=)	0.49	AC.
NATURAL AREAS: (1.24 AC. X 100%)	1.24	AC.
TOTAL PCSO NATURAL AREA PROVIDED:	5.22	AC.

LEGEND

- RIGHT-OF-WAY (ROW)
- PROPERTY LINE
- SETBACK
- PARCEL LINE
- EDGE OF PAVEMENT
- FENCE
- LANDSCAPE BUFFER
- EXISTING TREE CANOPY LINE
- SUPPLEMENTAL BUFFER PLANTING
- TREE SAVE AREA (2.88 ACRES)
- SUPPLEMENTAL TREE SAVE AREA
- UNDISTURBED NATURAL AREA PER PCSO (6.39 ACRES - 25.05%)

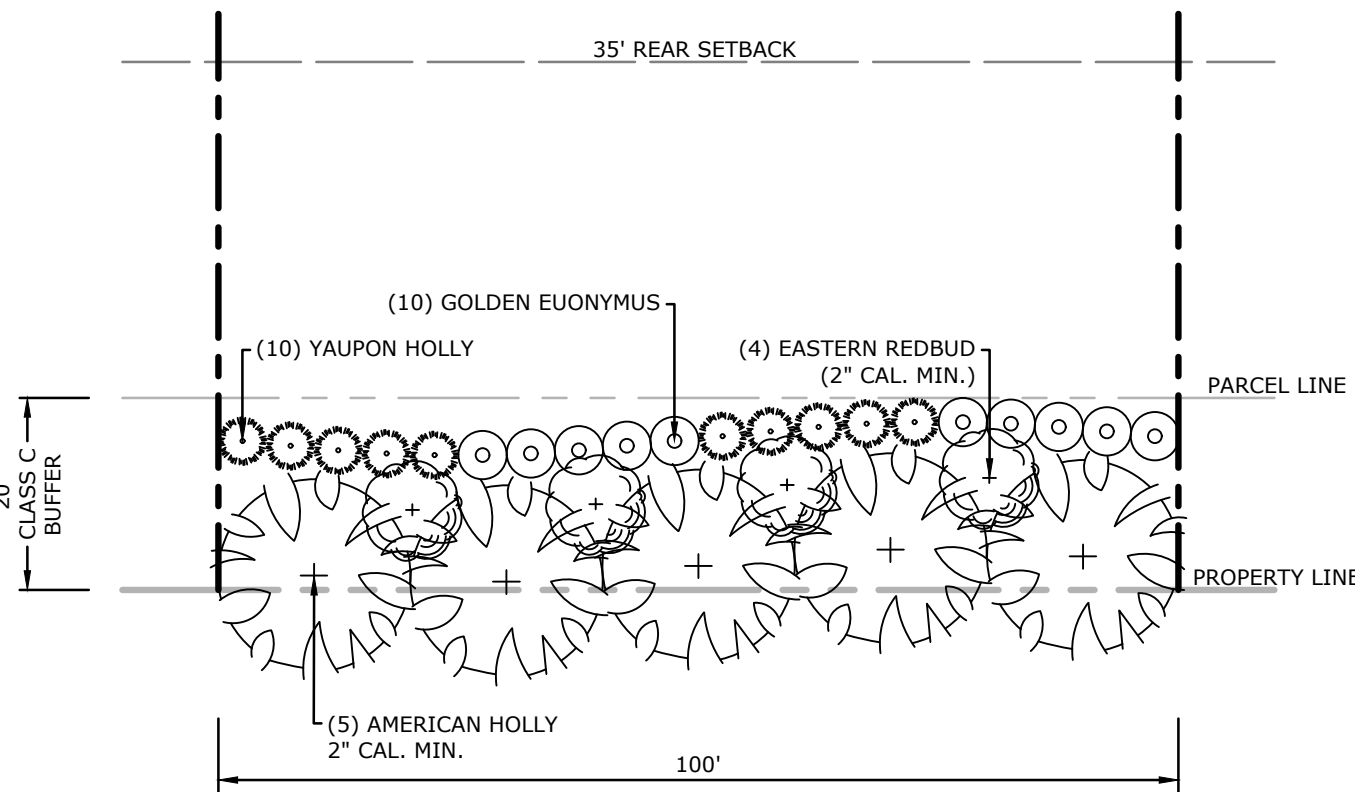
LANDSCAPE GENERAL NOTES:

- PLEASE CALL (704) 517-5664 FOR AN INSPECTION OF TREE PROTECTION AND/OR TREE PLANTING AREAS. 1 TO 2 DAYS BEFORE THE TEMPORARY OR FINAL CERTIFICATE OF OCCUPANCY IS NEEDED.
- ALL TREES ON PUBLIC PROPERTY ARE PROTECTED BY ORDINANCE AND REMOVAL MUST BE APPROVED BY THE CITY ARBORIST (704) 336-4262.
- ADJUST TREE PLANTING LOCATIONS TO AVOID UNDERGROUND UTILITIES. PLANT 15' FROM ALL UNDERGROUND UTILITIES (SEWER AND STORM DRAINAGE, GAS, WATER, PHONE, AND ELECTRICAL LINES.)
- ATTENTION LANDSCAPER: NOTIFY URBAN FORESTER OF ANY SIGN, POWER LINE, OR OTHER CONFLICTS BEFORE PLANTING NEW TREES.
- IN ORDER TO PLANT VEGETATION, INCLUDING TREES, SHRUBS AND UNDERBRUSH, WITHIN THE EXISTING OR PROPOSED NCDOT RIGHT-OF-WAY, AN APPROVED NCDOT PLANTING PERMIT IS REQUIRED. THIS PERMIT IS ISSUED BY THE NCDOT ROADSIDE ENVIRONMENTAL UNIT.
- THE APPROVED NCDOT DRIVEWAY PERMIT DOES NOT COVER ANY PLANTING WITHIN STATE RIGHT OF WAY. A NCDOT PLANTING PERMIT IS A SEPARATE PERMITTING PROCESS AND WILL NEED TO BE APPLIED FOR AN OBTAINED PRIOR TO ANY PLANTING WITHIN THE NCDOT RIGHT-OF-WAY.
- A COPY OF THE APPROVED NCDOT PLANTING PERMIT MUST BE PROVIDED PRIOR TO ISSUANCE OF ANY COs, BOND RELEASE, AND STREET ACCEPTANCE.



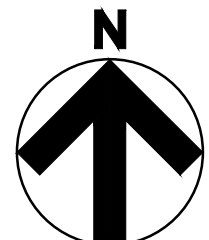
APPROVED

By Miriam Cattabriga at 2:49 pm, Jul 12, 2018



SUPPLEMENTAL BUFFER PLANTING

PER 100' LINEAR FEET
SCALE 1"=20'

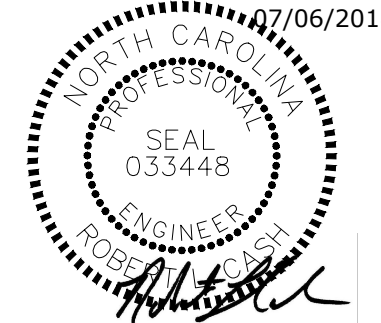


PLANT SCHEDULE

QUANTITY	COMMON NAME	BOTANICAL NAME	CALIPER / CONTAINER	SIZE	TYPE	SPACING
24	AUTUMN SPLENDOR MAPLE	ACER SACCHARUM 'AUTUMN SPLENDOR'	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
16	HERITAGE RIVER BIRCH®	BETULA NIGRA 'CULLY'	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
15	EASTERN REDBUD	CERCIS CANADENSIS	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
23	AMERICAN HOLLY	ILEX OPACA	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
45	WILLOW OAK	QUERCUS PHELLOS	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
31	SHUMARD RED OAK	QUERCUS SHUMARDII	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
18	LACEDARK ELM	ULMUS PARVIFOLIA 'ALLEE'	2" CAL.	12'-14" HT. MIN.	B&B	AS SHOWN
38	GOLDEN EUONYMUS	EUONYMUS JAPONICUS 'AURORE-MARGINATUS'	3 GAL. MIN.	18" HT. MIN.	CONTAINER	5'-0" O.C.
38	YAUPOH HOLLY	ILEX VOMITORIA	3 GAL. MIN.	18" HT. MIN.	CONTAINER	5'-0" O.C.

*SUBSTITUTIONS SHALL BE PERMITTED ONLY WITH NOTIFICATION AND WRITTEN APPROVAL FROM THE CITY OF CHARLOTTE URBAN FORESTER DEPARTMENT. LANDSCAPE CONTRACTOR OR GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL FROM THE TOWN PLANNING & ZONING DEPARTMENT. SUBSTITUTED MATERIAL SHALL BE EQUIVALENT OR GREATER IN SIZE THAN THE SPECIFIED PLANT. SUBSTITUTED PLANTS SHALL HAVE THE SAME ESSENTIAL CHARACTERISTICS AND GROWTH HABIT OF THE SPECIFIED PLANT. SUBSTITUTED SHRUBS AND TREES SHALL BE FROM THE APPROVED PLANT SPECIES LIST IN THE "APPROVED PLANT SPECIES" MATRIX IN THE CHARLOTTE LAND DEVELOPMENT STANDARDS MANUAL.

#	DATE	DESCRIPTION
1	04/27/18	1ST COMMENTS CITY OF CHARLOTTE
2	06/08/18	2ND COMMENTS CITY OF CHARLOTTE
3	07/03/18	3RD COMMENTS CITY OF CHARLOTTE



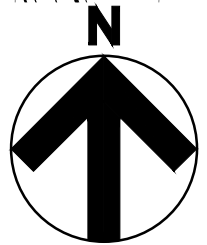
ROBERT L. CASH, P.E.
NC LICENSE No. 033448

DATE | 07/06/2018
DRAWN | MAH
DESIGNED | ANB
CHECKED | RLC
PROJECT # | CAMB17001

SHEET TITLE

LANDSCAPE PLAN
SHEET NUMBER

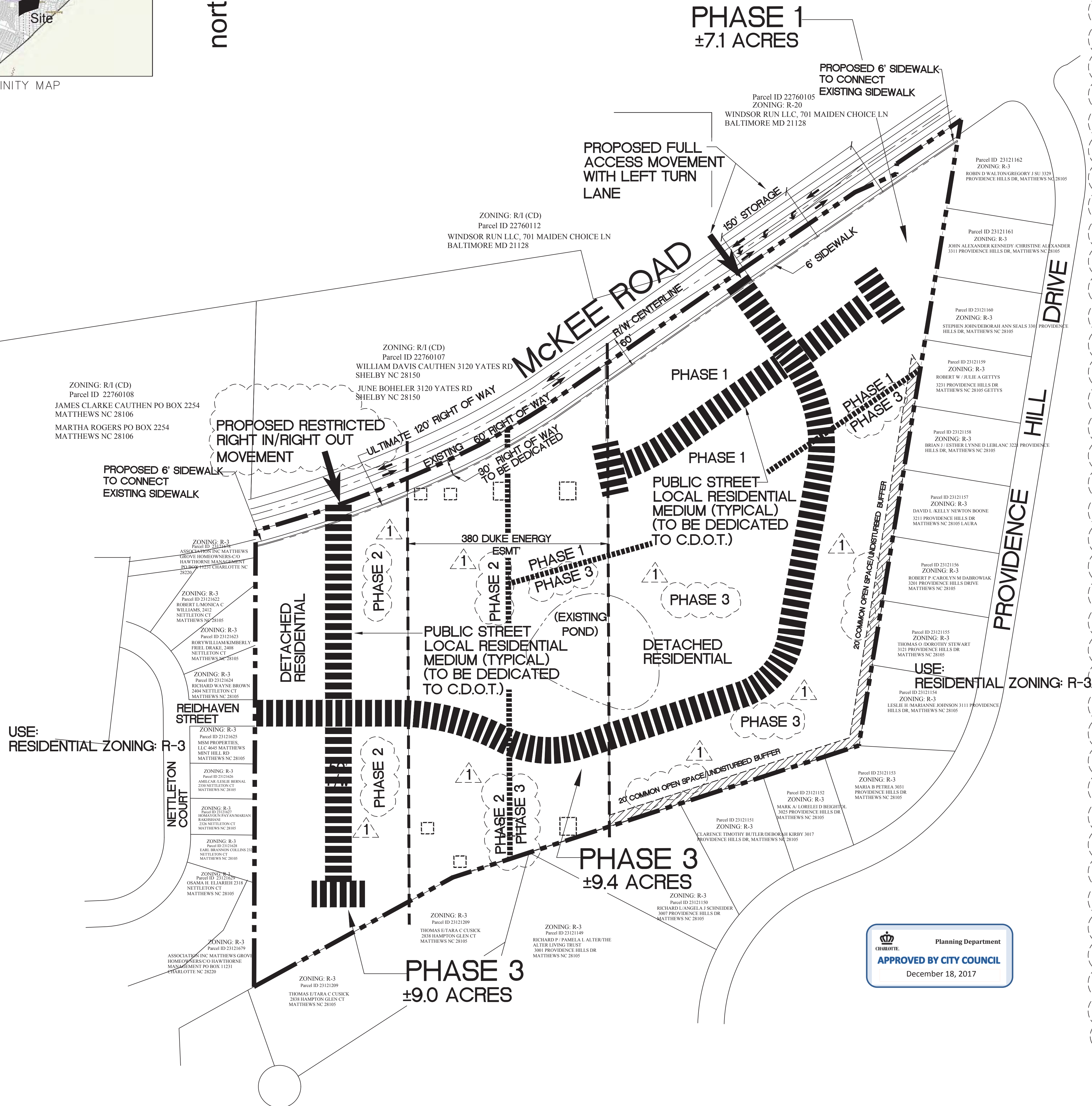
L-100



GROUND COVERS	QTY	CODE	BOTANICAL NAME	COMMON NAME	CONT	SIZE	TYPE
	651	ACOC	ACORUS CALAMUS	SWEET FLAG	2" CAL.	12"-14' HT. MIN.	B&B
	401	BIAR	BIDENS ARISTOSA	TICKSEED SUNFLOWER	2" CAL.	12"-14' HT. MIN.	B&B
	271	EUPE	EUPATORIUM PERFOLIATUM	BONESET	2" CAL.	12"-14' HT. MIN.	B&B
	550	HIMO	HIBISCUS MOSCHEUTOS	MARSH MALLOW	2" CAL.	12"-14' HT. MIN.	B&B
	1302	NULU	NUPHAR LUTEUM	SPATTERDOCK	2" CAL.	12"-14' HT. MIN.	B&B
	620	PELV	PELTANDRA VIRGINICA	ARROW ARUM	2" CAL.	12"-14' HT. MIN.	B&B
	430	SALA	SAGITTARIA LATIFOLIA	DUCK POTATO	2" CAL.	12"-14' HT. MIN.	B&B
	703	SACE	SAURURUS CERNUUS	LIZARD'S TAIL	3 GAL. MIN.	18" HT. MIN.	B&B
	1039	SCVA	SCIRPUS VALIDUS	GREAT BULRUSH	3 GAL. MIN.	18" HT. MIN.	B&B

TREES	QTY	CODE	BOTANICAL NAME	COMMON NAME	CALIPER	SIZE	TYPE
	4	ACSL	ACER SACCHARUM 'LEGACY'	LEGACY SUGAR MAPLE	2" CAL.	12'-14' HT. MIN.	B&B
	3	BEHE	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	2" CAL.	12'-14' HT. MIN.	B&B
	2	LITU	LIRIODENDRON TULIPIFERA 'EMERALD CITY' TM	EMERALD CITY TULIP TREE	2" CAL.	12'-14' HT. MIN.	B&B
	2	PITA	PINUS TAEDA	LOBLOLLY PINE	2" CAL.	12'-14' HT. MIN.	B&B
	4	QUNI	QUERCUS NIGRA	WATER OAK	2" CAL.	12'-14' HT. MIN.	B&B
SHRUBS	QTY	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	SIZE	TYPE
	17	AEPA	AESCULUS PAVIA	RED BUCKEYE	2" CAL.	12'-14' HT. MIN.	B&B
	17	CAAM	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	2" CAL.	12'-14' HT. MIN.	B&B
	17	ILVE	ILEX VERTICILLATA	GOLDEN ENOYUMUS	3 GAL. MIN.	18" HT. MIN.	B&B
	18	LIBE	LINDERA BENZOIN	YAUPON HOLLY	3 GAL. MIN.	18" HT. MIN.	B&B
	17	VAAR	VACCINIUM ARBOREUM	YAUPON HOLLY	3 GAL. MIN.	18" HT. MIN.	B&B

3



- McKee Road Single Family Development Standards

- Development Data Table:

 - a. Gross Site Area: 25.5 AC; Existing Duke Power Easement Area: 7.2 AC; Site Development Area: 18.3 AC
 - b. Tax Parcel: 23121168
 - c. Existing Zoning: R-3
 - d. Proposed Zoning: R-5 (CD)
 1. Lot Standards shall meet R-5 standards. Petitioner elects to use Cluster Development as outlined in Section 9.205 of the Ordinance to achieve R-5 Cluster Lot Standards except as provided for below and as depicted on the Schematic Site Plan.
 2. Min. Rear yard:
 - a. 35 FT measured from the internal boundary of 20 FT Common Open Space/Undisturbed Buffer where shown, for Lots abutting parcels along Providence Hills Drive as depicted on the Schematic Site Plan
 - b. 35 FT for Lots abutting parcels along Nettleton Ct. measured from the property line.
 - c. 20 FT for Interior Lots
 - e. Maximum Number of SF Residential Lots: 80; Overall Site Density: 3.13 DU/ AC
 - f. Open Space Area: Minimum of 10% of Gross Site Area
 - g. Tree Save Area: Minimum of 15% of Site Development Area or 2.75 AC (Site Development Area: 18.3 AC * 15% = 2.75 AC)

2. General Provisions:

 - a. Development of the Site will be controlled by the standards depicted on this Technical Data Sheet and by the standards of the Charlotte Zoning Ordinance. The development depicted on this Sheet is intended to reflect the arrangement of proposed uses on the Site, but the exact configuration, placement, and size of individual Site elements may be altered or modified within the limits prescribed by the Zoning Ordinance during the design development and construction phases as allowed under the provisions of Section 6.2 of the Zoning Ordinance.
 - b. The Petitioner acknowledges that other standard development requirements imposed by other city ordinances, such as those that regulate streets, sidewalks, trees, and site development, may apply to the development of this Site. These are not zoning regulations, are not administered by the Zoning Administrator, and are not separate zoning conditions imposed by this Technical Data Sheet. Unless specifically noted in the conditions for this Technical Data Sheet, these other standard development requirements will be applied to the development of this Site as defined by those other City ordinances.
 - c. Throughout this Rezoning Petition, the terms "Owner", "Owners", "Petitioner" or "Petitioners", shall, with respect to the Site, be deemed to include the heirs, devisees, personal representatives, successors in interest and assignees of the owner or owners of the Site who may be involved in the development from time to time

3. Purpose:

 - a. The purpose of this Rezoning Petition is to allow for the development of a single family residential community comprised of up to 80 detached single family dwelling units. To achieve this purpose, the Rezoning Petition is to change the Site from R-3 to the R-5 (CD) District.
 - b. A Schematic Site Plan (RZ-2) is included only to depict a potential plan for developing the Site with up to 80 single family homes with minimum lot widths of 40'.

4. Permitted Use:

Uses allowed on the Site included in this Rezoning Petition will be detached single family dwelling units and related accessory uses as are permitted in the R-5 District. Petitioner may include potential accessory amenities such as, but not limited to, a gazebo, dock, fire pit and exercise trails as generally depicted on the Schematic Site plan.

5. Transportation:

 - a. Petitioner agrees to dedicate fee simple conveyances of all rights-of-way for internal streets to the City. The internal Public Streets shall be local residential medium with a 50 FT ROW dedication and a 3 FT sidewalk easement on both sides of the ROW. Petitioner shall construct such internal Public Street improvements as generally depicted on the Technical Data Sheet.
 - b. Petitioner shall allow for a minimum of 20 FT from the back of sidewalk to the face of garage where parking is allowed on a driveway pad.
 - c. Petitioner agrees to dedicate fee simple conveyance of additional Right-of Way along the Site frontage with McKee Road of 60 FT from the center line of McKee Road.
 - d. Petitioner shall install a 6 FT sidewalk along the Site frontage on McKee Road connecting to existing sidewalks at the Eastern and Western edges of the Site. The sidewalk will be located 52 FT from the center line of McKee Road.
 - e. Petitioner shall install a West bound left turn lane with 150 FT of storage from McKee Road at the Eastern entrance to the Site. Petitioner will discuss need for an additional West bound left turn lane at the Western entrance with CDOT as part of its driveway and encroachment application process.
 - f. Petitioner shall dedicate through fee simple conveyance all rights of way for internal streets to CDOT as each Phase is developed prior to issuance of the first Certificate of Occupancy within such Phase area on the Site. All transportation improvements shall be approved and constructed for each Phase (3) as shown on the Site plan prior to issuance of the first Certificate of Occupancy within such Phase area on the Site.

6. Architectural standards:

 - a. The development of the Site will be governed by the District Regulations of the Zoning Ordinance for the R-5 District and (s) by the conditions included as part of this Technical Data Sheet and as generally depicted on the Schematic Site Plan.
 - b. No vinyl siding will be used for siding materials; however, vinyl may be used for soffit and trim including window and door trim.

7. Streetscape and Landscaping:

The Petitioner reserves the right to install entrance features at the two (2) proposed driveway connections to McKee Road, subject to all sight distance restrictions.

8. Features:

 - a. The location, size and type of storm water management systems are subject to review and approval as part of the full development plan submittal and are not implicitly approved with this Rezoning Petition. Adjustments may be necessary in order to accommodate actual storm water treatment requirements and natural discharge points.
 - b. Site development shall comply with City of Charlotte Tree Ordinance.
 - c. For adjoining parcels receiving storm water discharge from proposed BMP's on the Site, the Petitioner shall analyze adequacy of the existing Stormwater conveyance on the adjoining parcels. If the existing Stormwater conveyance on the adjoining parcels is found to be inadequate, the Petitioner shall make a good faith effort with the property owner(s) to improve the Stormwater conveyance or otherwise mitigate the Stormwater discharge into the adjoining parcels.
 - d. A 20 FT Undisturbed Buffer will be maintained within Common Open Space (COS) in the area depicted on the Technical Data Sheet. This Undisturbed Buffer is not included in the Lots and will be established as Common Open Space as part of the subdivision plat. Minimal grubbing, cleaning and clearing of dead trees is allowed. Clearing for utility easements that cross the Undisturbed Buffer in the Common Open Space is allowed.
 - e. All Lots that adjoin the Providence Hills subdivision along the Eastern edge of the Site shall have a minimum 35 FT Rear Yard Setback measured, where applicable, from the internal COS boundary (i.e., 55FT from the adjoining property line). All Lots that adjoin the Matthews Grove subdivision along the western edge of the Site shall have a minimum 35 FT Rear Yard Setback measured from the adjoining property line.

9. Fire Protection:

No on-street parking on roads less than 26 FT clear width.

FOR PUBLIC HEARING
REZONING PETITION: #2017-104

**CAMBRIDGE
PROPERTIES**

704/333-2393
cambridgeprop.com

831 East Morehead Street • Suite 245
Charlotte, North Carolina 28202

McKEE ROAD PROPERTY
CITY OF CHARLOTTE, NC

TECHNICAL DATA SHEET

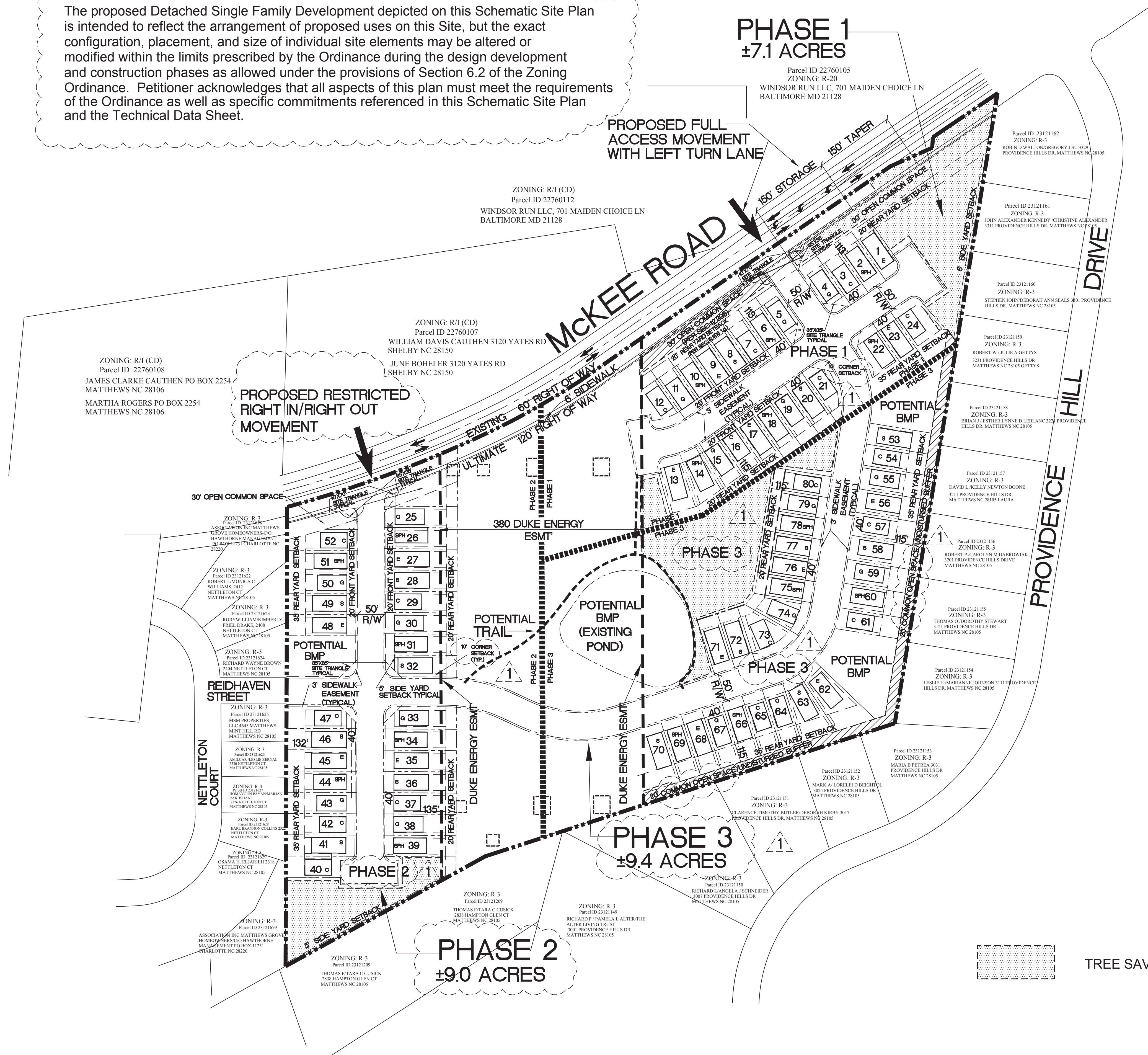
[illegible]



VICINITY MAP

SCHEMATIC SITE PLAN QUALIFICATIONS:

The proposed Detached Single Family Development depicted on this Schematic Site Plan is intended to reflect the arrangement of proposed uses on this Site, but the exact configuration, placement, and size of individual site elements may be altered or modified within the limits prescribed by the Ordinance during the design development and construction phases as allowed under the provisions of Section 6.2 of the Zoning Ordinance. Petitioner acknowledges that all aspects of this plan must meet the requirements of the Ordinance as well as specific commitments referenced in this Schematic Site Plan and the Technical Data Sheet.



TREE SAVE AREA = 2.97 Ac.



704/333-2393
cambridgeprop.com
831 East Morehead Street • Suite 245
Charlotte, North Carolina 28202

McKEE ROAD PROPERTY
CITY OF CHARLOTTE, NC

SCHEMATIC SITE PLAN

REVISIONS

#	DATE	ITEM
1	10/16/2014	Staff Comments

DATE
8/31/17

SCALE
1"=100'

DRAWN BY
D.T.

CHECKED BY
CPI

SHEET #
RZ-2

FOR PUBLIC HEARING
REZONING PETITION: #2017-104