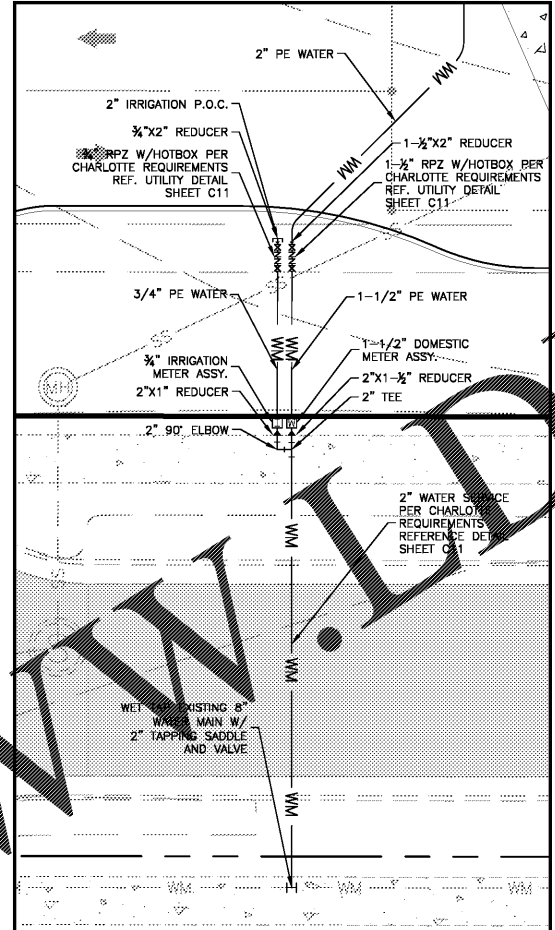
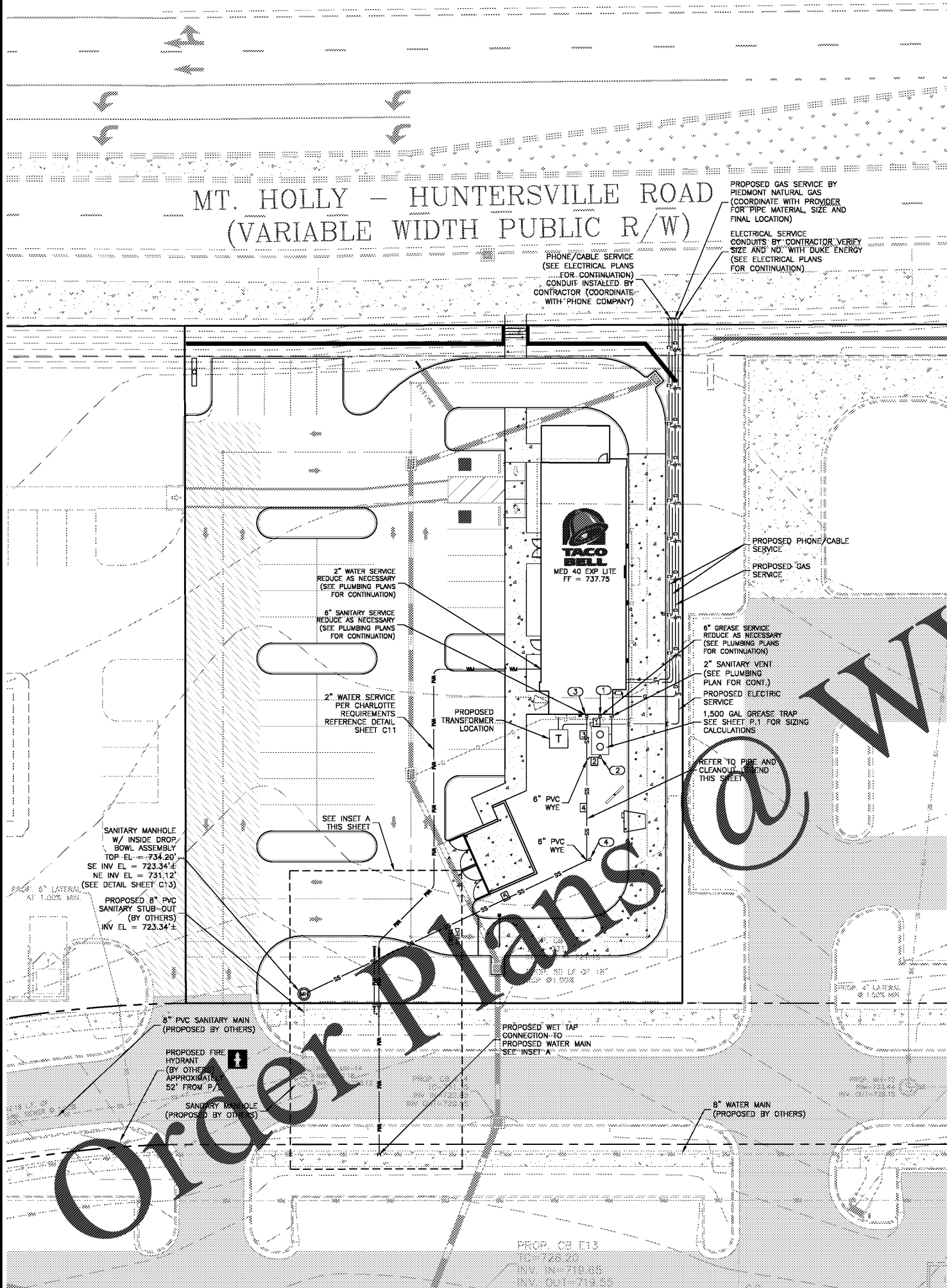
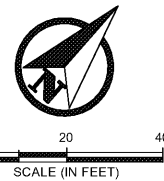
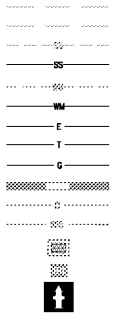


MT. HOLLY - HUNTERSVILLE ROAD  
(VARIABLE WIDTH PUBLIC R/W)



INSET "A"  
WATER CONNECTION  
DETAIL  
SCALE 1"=10'

LEGEND



LANDSCAPE BUFFER LINE  
BUILDING SETBACK LINE  
PROPOSED SANITARY PIPE (BY OTHERS)  
PROPOSED SANITARY PIPE  
PROPOSED WATER PIPE (BY OTHERS)  
PROPOSED WATER PIPE  
PROPOSED ELECTRIC LINE  
PROPOSED PHONE LINE  
PROPOSED GAS LINE  
PROPOSED STORM PIPE  
PROPOSED DRAIN PIPE  
PROPOSED CONTOUR (BY OTHERS)  
PROPOSED STORM INLET  
PROPOSED STORM INLET (BY OTHERS)  
PROPOSED FIRE HYDRANT (BY OTHERS)

SANITARY CLEANOUT LEGEND:

- ① INVERT = 725.05
- ② INVERT = 724.76
- ③ INVERT = 724.90
- ④ INVERT = 724.38
- ⑤ INVERT\* = 723.34±

\*FIELD VERIFY INVERT PRIOR  
CONSTRUCTION. NOTIFY ENGINEER  
OF RECORD OF ANY DEVIATION  
FROM PLANS.

SANITARY PIPE LEGEND:

- ① 4' LF 6" PVC @ 1.0%
- ② 5' LF 6" PVC @ 1.0%
- ③ 15' LF 6" PVC @ 1.0%
- ④ 37' LF 6" PVC @ 1.0%
- ⑤ 104' LF 6" PVC @ 1.0%

UTILITY PROVIDERS

**WATER**  
CHARLOTTE WATER  
CONTACT: CATHERINE PAIGE  
5100 BROOKSHIRE BLVD.  
CHARLOTTE, NC 28216  
PHONE: (704) 432-4114  
EMAIL: CPAIGE@CI.CHARLOTTE.NC.US

**GAS**  
PIEDMONT NATURAL GAS  
CONTACT: GREGORY COPE  
4301 YANCY ROAD  
CHARLOTTE, NC 28217  
PHONE: (704) 587-6958  
EMAIL: GREGORY.COPE@PIEDMONTNG.COM

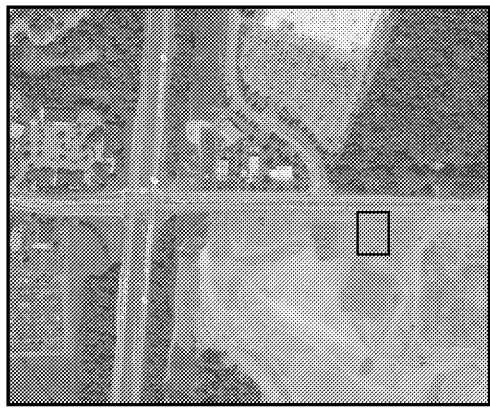
**POWER**  
DUKE ENERGY  
CONTACT: HARDEN FULTZ  
6325 WILKINSON BLVD.  
CHARLOTTE, NC 28214  
PHONE: 1-800-454-3853

**SEWER**  
CHARLOTTE WATER  
CONTACT: CATHERINE PAIGE  
5100 BROOKSHIRE BLVD.  
CHARLOTTE, NC 28216  
PHONE: (704) 432-4114  
EMAIL: CPAIGE@CI.CHARLOTTE.NC.US

**PHONE**  
AT&T  
CONTACT: JASON WOOD  
3RD FLOOR, 4100 SOUTHSTREAM BLVD  
CHARLOTTE, NC 28217  
PHONE: (704) 478-7938  
EMAIL: JW7634@ATT.COM

UTILITY NOTES:

1. ALL UTILITY WORK SHALL CONFORM TO CHARLOTTE WATER UTILITY STANDARDS. THE MOST CURRENT STANDARDS AND SPECIFICATIONS IN FORCE AT THE TIME OF CONSTRUCTION SHALL BE USED.
2. ALL VALVES, SERVICES, HYDRANTS, FITTINGS, ETC., ARE NOT DRAWN TO SCALE BUT ARE SHOWN FOR SCHEMATIC PURPOSES ONLY.
3. ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RE-GRADED AND SODDED TO PRE-CONSTRUCTION CONDITIONS.
4. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND MAKE ADJUSTMENTS, AS REQUIRED.
5. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR 14 DAYS PRIOR TO ADVANCE OF ANY EXCAVATION INVOLVING THEIR UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
6. LANDSCAPE AREAS SHALL BE IRRIGATED, DESIGNED BY OTHERS.
7. ALL PVC WATER LINES SHALL BE BLUE IN COLOR.
8. ANY PIPE, PIPE FITTING, SOLDER AND/OR FLUX UTILIZED SHALL BE LEAD FREE. SOLDER AND FLUX SHALL NOT CONTAIN MORE THAN 0.2 PERCENT LEAD, AND PIPES AND PIPE FITTINGS SHALL NOT CONTAIN MORE THAN 8.0 PERCENT LEAD.
9. RELATION OF WATER MAINS TO SEWERS
  - (A) LATERAL SEPARATION OF SEWERS AND WATER MAINS. WATER MAINS SHALL BE LAID AT LEAST 10 FEET LATERALLY FROM EXISTING OR PROPOSED SEWERS, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT A 10 FOOT LATERAL SEPARATION--IN WHICH CASE:
    - (1) THE WATER MAINS SHALL BE IN A TRENCH WITH THE ELEVATION OF THE BOTTOM OF THE WATER MAIN AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER; OR
    - (2) WHEN THE ABOVE CONDITIONS ARE NOT MET, THE SEWER MAIN AND WATER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS MEETING WATER MAIN STANDARDS.
  - (B) CROSSING WATER MAIN OVER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS OVER A SEWER, THE WATER MAIN SHALL BE LAID AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER, UNLESS LOCAL CONDITIONS OR BARRIERS PREVENT AN 18 INCH VERTICAL SEPARATION--IN WHICH CASE BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPES AND WITH JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING.
  - (C) CROSSING A WATER MAIN UNDER A SEWER. WHENEVER IT IS NECESSARY FOR A WATER MAIN TO CROSS UNDER A SEWER, BOTH THE WATER MAIN AND THE SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE, AND WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. A SECTION OF WATER MAIN PIPE SHALL BE CENTERED AT THE POINT OF CROSSING.
10. DISINFECTION OF NEW SYSTEMS
  - (A) ALL INTERIOR SURFACES OF NEW POTABLE WATER SUPPLY SYSTEMS, INCLUDING WELLS, FILTERS, STORAGE TANKS AND DISTRIBUTION LINES SHALL BE THOROUGHLY DISINFECTED BY MEANS OF HYPOCHLORITE OR CHLORINE SOLUTIONS, AFTER WHICH BACTERIOLOGICAL TEST SAMPLES SHALL BE COLLECTED.
  - (B) AFTER DISINFECTION THE WATER SUPPLY SHALL NOT BE PLACED INTO SERVICE UNTIL BACTERIOLOGICAL TEST RESULTS OF REPRESENTATIVE WATER SAMPLES ANALYZED IN AN APPROVED LABORATORY ARE FOUND TO BE SATISFACTORY.
11. DISINFECTION OF STORAGE TANKS AND DISTRIBUTION SYSTEMS
  - (A) WATER DISTRIBUTION SYSTEMS, INCLUDING STORAGE TANKS AND WATER MAINS, AFTER FLUSHING TO REMOVE SEDIMENT AND OTHER FOREIGN MATTER, AND AFTER TESTING FOR LEAKS, SHALL BE DISINFECTED BY THE ADDITION AND THOROUGH DISPERSION OF A CHLORINE SOLUTION IN CONCENTRATIONS SUFFICIENT TO PRODUCE A CHLORINE RESIDUAL OF AT LEAST 50 MILLIGRAMS PER LITER (OR PPM) IN THE WATER THROUGHOUT THE DISTRIBUTION SYSTEM, INCLUDING ALL WATER MAINS AND STORAGE TANKS.
  - (B) THE CHLORINE SOLUTION SHALL REMAIN IN CONTACT WITH INTERIOR SURFACES OF THE WATER SYSTEM FOR A PERIOD OF 24 HOURS. THEN THE WATER SYSTEM SHALL BE FLUSHED WITH FRESH WATER FROM AN APPROVED WATER SOURCE UNTIL THE CHLORINE SOLUTION IS DISPELLED.
  - (C) REPRESENTATIVE SAMPLES OF THE WATER SHALL THEN BE COLLECTED. IF BACTERIOLOGICAL TESTS OF THE SAMPLES INDICATE THAT THE WATER QUALITY IS SATISFACTORY, THE WATER MAINS AND STORAGE TANKS MAY BE PLACED IN SERVICE.
  - (D) IN UNUSUAL SITUATIONS WHERE LARGE VOLUME TANKS ARE INVOLVED AND WHERE THERE IS NOT SUFFICIENT WATER AVAILABLE TO FILL THE TANK OR THERE IS NOT AVAILABLE A SUITABLE DRAINAGE AREA FOR THE CHLORINATED WATER, AN ALTERNATE DISINFECTION PROCEDURE FOR TANKS MAY BE PROPOSED. SUCH PROPOSAL MUST BE SUBMITTED IN WRITING COMPLETELY DESCRIBING THE PROPOSED DISINFECTION PROCEDURE AND SUBSTANTIATING THE NEED FOR AN ALTERNATE PROCEDURE IN THE PARTICULAR CIRCUMSTANCE. SUCH ALTERNATE PROCEDURE MUST BE APPROVED BEFORE BEING IMPLEMENTED. THE CONCLUSION OF THE DEPARTMENT SHALL BE FINAL.
12. THE DRINKING WATER PIPING AND APPURTENANCES MUST COMPLY WITH STANDARDS, REGULATIONS, OR REQUIREMENTS OF THE AMERICAN WATER WORKS ASSOCIATION STANDARDS.
13. THE DRINKING WATER PIPING AND APPURTENANCES MUST COMPLY WITH STANDARDS, REGULATIONS, OR REQUIREMENTS OF THE NSF INTERNATIONAL STANDARDS.
14. CONDUIT LOCATION, SIZE, NUMBER, ETC. SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR TO COORDINATE WITH ELECTRIC AND PHONE COMPANIES FOR SERVICE AND CONDUIT LOCATIONS, TYPES, ETC.
15. CONTRACTOR SHALL COORDINATE WITH GAS COMPANY FOR NATURAL GAS SERVICE LOCATION, SIZE, AND REQUIREMENTS.
16. REFERENCE RIVERBEND OVERALL ENGINEERING PLANS FOR SITE BENCHMARK INFORMATION.



LOCATION  
MAP  
SCALE 1"=500'

This item has been digitally signed and sealed by Craig L. Cornelison, PE on 02/23/2018.  
Printed copies of this document are not considered signed and signature must be verified on any electronic copies.



**CORNELISON ENGINEERING & DESIGN, INC.**  
**CED**

SEAL  
037118  
ENGINEER  
CRAIG L. CORNELISON  
NO. C-3783

SEAL  
037118  
ENGINEER  
CRAIG L. CORNELISON  
NO. C-3783

CONTRACT DATE:  
BUILDING TYPE: MED 54  
PLAN NUMBER:  
SITE NUMBER: 311687  
STORE NUMBER: 436563

TACO BELL  
3923 SHAKEDOWN STREET  
CHARLOTTE, NC 28216

**LIVE MAS**  
MEDIUM 54

UTILITY  
PLAN

C06

PLOT DATE: 2-09-18