# HARRIS CREEK INTERCEPTOR IMPROVENTS

ROLESVILLE, NORTH CAROLINA

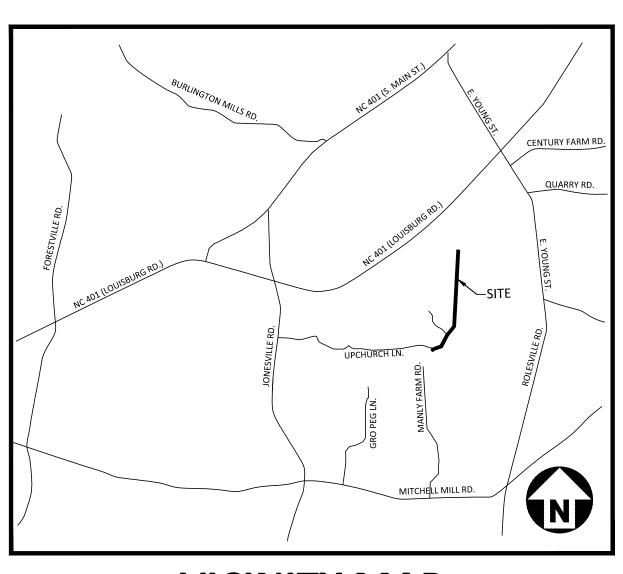
# **CONSTRUCTION DRAWINGS**

PROJECT NUMBER: AWH-21002 DATE: NOVEMBER 9, 2021

**SURVEY BY:** BATEMAN CIVIL SURVEY COMPANY 2424 RELIANCE AVENUE, APEX, NC 27539 TOPOGRAPHIC DECEMBER 22, 2019 ALTA SURVEY DECEMBER 12, 2019 STEVEN P CARSON, PLS NC LICENSE # 4752 919-577-1081

#### PUBLIC UTILITY IMPROVEMENT QUANTITIES OF SEWER MAIN & MANHOLES

SIZE	LENGTH
18" PVC (LF)	418 LF
24" PVC (LF)	3,469 LF
NUMBER OF MANHOLES = 13	•



**VICINITY MAP** 



PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 34+00.00 THRU STA. 43+00.00 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 43+00.00 THRU STA. 52+00.00 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 52+00.00 THRU STA. 61+00.00 PLAN AND PROFILE - HARRIS CREEK INTERCEPTOR STA. 61+00.00 THRU STA. 64+00.00

C8.02 EROSION CONTROL DETAILS

Water and Sewer Permits (If applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public 

SITE PERMITTING APPROVAL

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_\_\_\_\_\_

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_\_\_\_\_

CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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

City of Raleigh Review Officer

Durham, NC 27713 phone 919. 361. 5000 fax 919. 361. 2269

2905 Meridian Parkway

www.mcadamsco.com

license number: C-0293, C-187

CONTACT

MIKE SANCHEZ sanchez@mcadamsco.com PHONE: 919. 361. 5000

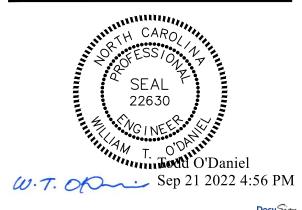
CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 **CONTACT: BOB MISHLER** 



**PROJECT DIRECTORY** 

CD 22-03



### **REVISIONS**

NO. DATE

1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS

2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS 3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS

> CONSTRUCTION **DRAWINGS FOR:**

HARRIS CREEK INTERCEPTOR **IMPROVEMENTS** ROLESVILLE, NORTH CAROLINA PROJECT NUMBER: AWH-21002

#### CITY OF RALEIGH PUBLIC UTILITIES STANDARD UTILITY NOTES (AS APPLICABLE)

- 1. ALL MATERIALS & CONSTRUCTION METHODS SHALL BE IN ACCORDANCE WITH CITY OF RALEIGH DESIGN STANDARDS, DETAILS & SPECIFICATIONS (REFERENCE: CORPUD HANDBOOK, CURRENT EDITION)
- 2. UTILITY SEPARATION REQUIREMENTS:
- a. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED. FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- b. WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO
- c. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATERMAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- d. 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS
- e. MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (PER CORPUD DETAILS W-41 &
- f. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION
- ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24 HOUR ADVANCE NOTICE TO THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT.
- 5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN
- INSTALL 3/4" COPPER WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH

INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.

- CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
- PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
- 10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
- 11. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION
- 12. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY AT
- (919) 996-2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION. 13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS 17. PROVIDE INLET PROTECTION AROUND ALL SITE STORM INLETS. PROTECT OPEN PIPES UNDER CONSTRUCTION LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL MEET AMERICAN SOCIETY OF SANITARY ENGINEERING (ASSE) STANDARDS OR BE ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVAL LIST. THE DEVICES SHALL BE INSTALLED AND TESTED

THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT

#### **NOTES:**

DEEDS OF EASEMENT FOR SANITARY SEWER PURPOSES TO CITY OF RALEIGH RECORDED IN BOOK 12249, PAGE 864 AND BOOK 12466, PAGE 1149 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2006, PAGES 2216 AND 2217, WAKE COUNTY REGISTRY.

(919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

(DEED OF EASEMENT SUPERSEDED BY BM 2008 PG 480 & 481

RIGHT OF WAY AND UTILITY EASEMENTS RECORDED IN BOOK 13736. PAGES 1287 AND 1294 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2009, PAGE 1091, WAKE COUNTY REGISTRY.

(AS SHOWN ON SURVEY)

DEEDS OF EASEMENT FOR SANITARY SEWER PURPOSES TO CITY OF RALEIGH RECORDED IN BOOK 12249, PAGE 860 AND BOOK 12466, PAGE 1171 AND AS SHOWN ON RECORDED PLAT IN BOOK OF MAPS 2006, PAGES 2216 AND 2217, WAKE COUNTY REGISTRY.

### **BY-PASS PUMPING NOTES:**

- 1. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO PROPERTY OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING CITY OF RALEIGH UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
- 2. A BYPASS PLAN SEALED BY A NC PROFESSIONAL ENGINEER MUST BE SUBMITTED TO CITY OF RALEIGH PUBLIC UTILITIES PRIOR TO PUMPING OPERATIONS TO COORDINATE WITH ENGINEERING STAFF, PUMPS SHOULD BE SIZED TO HANDLE THE PEAK FLOW(2.5 TIMES THE AVERAGE DAILY FLOW) FOR THE LINE OR AREA OF WORK. THE CONTRACTOR SHALL SECURE THE PUMPS FROM A PUMP SUPPLIER ACCORDING TO THE PROVIDED FLOW INFORMATION, PUMPING OPERATIONS MUST BE MONITORED 24 HOURS A DAY FOR EACH OF THE PUMPING OPERATION BY QUALIFIED PERSONNEL IN ORDER TO RESPONSE TO PROBLEMS OR FAILURES. 100% REDUNDANCY IS REQUIRED FOR PUMPING OPERATIONS. IN ADDITION, BACK UP PUMPS ARE TO BE CONNECTED TO THE BYPASS FORCE MAIN TO FACILITATE IMMEDIATE USE UPON FAILURE OF THE PRIMARY PUMPS.

### TRAFFIC CONTROL

- 1. UPCHURCH LANE AND ANY CONNECTING DRIVEWAYS SHALL REMAIN OPEN AND AVAILABLE TO LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION OF SANITARY SEWER REPLACEMENT.
- 2. ALL EXISTING DRIVES, ROADS, SIDEWALKS, PAVED AREAS IMPACTED BY CONSTRUCTION OPERATIONS, SHALL BE REPLACED TO EXISTING CONDITION OR BETTER.

#### **EROSION CONTROL NOTES**

- 1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF ROLESVILLE, CITY OF RALEIGH AND WAKE COUNTY STANDARDS, SPECIFICATIONS AND DETAILS AS APPLICABLE.
- 2. GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE WAKE COUNTY SOIL AND EROSION CONTROL STANDARDS AND SPECIFICATIONS.
- GRADING AND EROSION CONTROL METHODS SHALL ADHERE TO THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES DIVISION OF WATER QUALITY (DWQ) STANDARDS AND SPECIFICATIONS. WHERE DIFFERENT FROM WAKE COUNTY STANDARDS. THE MORE STRINGENT METHOD SHALL BE APPLIED.
- FAILURE TO FOLLOW THE APPROVED PLAN SEQUENCE AND DETAILS COULD SUBJECT THE CONTRACTOR TO FINES AND PENALTIES ISSUED BY EITHER THE COUNTY EROSION CONTROL DEPARTMENT OR THE DWQ.
- CONTRACTOR SHALL SEED AND STABILIZE ALL STEEP SLOPES (GREATER THAN 2H:1V) WITHIN 7 DAYS, 10 DAYS FOR MODERATE SLOPES (3H:1V OR GREATER) AND WITHIN 14 CALENDAR DAYS EVERYWHERE ELSE (STATE LAW
- 6. FOR ANY LAND-DISTURBING ACTIVITY WHERE GRADING ACTIVITIES HAVE BEEN COMPLETED, TEMPORARY OR PERMANENT GROUND COVER SUFFICIENT TO RESTRAIN EROSION SHALL BE PROVIDED AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER COMPLETING THE WORK. STABILIZATION IS THE BEST FORM OF EROSION CONTROL. TEMPORARY SEEDING IS NECESSARY TO ACHIEVE EROSION CONTROL ON LARGE DENUDED AREAS AND ESPECIALLY WHEN SPECIFICALLY REQUIRED AS PART OF THE CONSTRUCTION SEQUENCE
- NO DEBRIS SHALL BE TRACKED ONTO PUBLIC RIGHT OF WAY. IF THE SITUATION OCCURS WHERE MUD, ROCK AND DEBRIS IS TRACKED ONTO PAVEMENT, THE CONTRACTOR SHALL CLEAN THE PAVEMENT AND INSTALL ADDITIONAL MEASURES TO PREVENT THE FUTURE OCCURRENCE.
- 8. THE EROSION CONTROL INSPECTOR MAY REQUIRE ADDITIONAL FIELD MEASURES AS NECESSARY TO PROVIDE ADEQUATE PROTECTION FROM RECEIVING WATER COURSES
- 9. EROSION AND SEDIMENT CONTROL DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY GRADING ON SITE. THE CONTRACTOR SHALL CALL FOR AN INSPECTION BY WAKE COUNTY SEDIMENTATION AND EROSION CONTROL (SEC) ONCE INITIAL MEASURES ARE IN PLACE. (SEE CONSTRUCTION SEQUENCE)
- 10. CONTRACTOR SHALL INSPECT ALL SEDIMENT /EROSION CONTROL DEVICES AFTER EACH STORM EVENT. EACH DEVICE IS TO BE MAINTAINED OR REPLACED IF SEDIMENT ACCUMULATION HAS REACHED ONE HALF THE CAPACITY OF THE DEVICE.
- 11. A COPY OF THE APPROVED EROSION CONTROL PLAN MUST BE ON FILE AT THE JOB SITE AT ALL TIMES.
- 12. CONSTRUCTION, MAINTENANCE, AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GRADING CONTRACTOR UNLESS OTHERWISE NOTED.
- REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS

  13. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN ON THE PLAN IS A VIOLATION OF THE CITY/COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE
  - 14. ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE CITY/COUNTY ENGINEERING DEPARTMENT AND ARE THE RESPONSIBILITY OF THE CONTRACTOR
  - 15. PROTECTION OF EXISTING VEGETATION: AT THE START OF GRADING INVOLVING THE STRIPPING OF TOPSOIL OR LOWERING OF EXISTING GRADE AROUND A TREE, A CLEAN, SHARP, VERTICAL CUT SHALL BE MADE AT THE EDGE OF THE TREE SAVE AREA AT THE SAME TIME AS OTHER EROSION CONTROL MEASURES ARE INSTALLED. THE TREE PROTECTION FENCING SHALL BE INSTALLED ON THE SIDE OF THE CUT FARTHEST AWAY FROM THE TREE TRUNK AND SHALL REMAIN IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE TREES IS COMPLETE. NO STORAGE OF MATERIALS, FILL, OR EQUIPMENT AND NO TRESPASSING SHALL BE ALLOWED WITHIN THE BOUNDARY OF THE PROTECTED AREA AND SHALL BE POSTED ON THE PROTECTION FENCE. A PROTECTION FENCE CONSTRUCTED OF MATERIAL RESISTANT TO DEGRADATION BY SUN. WIND. AND MOISTURE FOR THE DURATION OF THE CONSTRUCTION, SHALL BE INSTALLED AT THE SAME TIME AS THE EROSION CONTROL MEASURES AND SHALL BE IN PLACE UNTIL ALL CONSTRUCTION IN THE VICINITY OF THE
  - 16. A CONSTRUCTION SEQUENCE HAS BEEN PROVIDED. INSTALLATION OF ALL PROPOSED SEDIMENTATION & EROSION CONTROL MEASURES IN THE SEQUENCE(S) PROVIDED AND MAINTENANCE OF THOSE DEVICES IS REQUIRED. THE CONTRACTOR MAY BE ALLOWED. WITH PRIOR APPROVAL FROM THE OWNER. TO COORDINATE CHANGES TO THE PLAN WITH THE ON-SITE SEDIMENTATION & EROSION CONTROL INSPECTOR AND THE
  - WITH EITHER PLYWOOD OR WITH MESH AND GRAVEL WEIRS. RUNOFF SHALL NOT BE ALLOWED IN ANY OPEN
- (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR 18. CONTRACTOR WILL FIELD LOCATE SILT FENCE OUTLETS AT LOW POINTS IN SILT FENCE AS REQUIRED TO PROVIDE
  - 19. TEMPORARY DIVERSIONS SHALL BE MAINTAINED DAILY BY CONTRACTOR SO THAT THEY ARE FUNCTIONAL AT THE END OF EACH WORKDAY AND WHEN STOPPING WORK FOR RAIN
  - 20. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
  - 21. DISTURBANCE OUTSIDE OF THE SITE PROPERTY LIMITS OR PUBLIC RIGHT-OF-WAY SHALL ONLY BE AS ALLOWED BY SIGNED GRADING AGREEMENTS AND/OR EASEMENTS BETWEEN THE DEVELOPER AND THE OFFSITE
  - 22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN SAFE OPEN ACCESS TO ALL PROPERTIES ALONG ADJACENT PROPERTIES DURING CONSTRUCTION PERIOD FOR IMPROVEMENTS
  - 23. SANITARY SEWER STRUCTURE LOCATIONS AND PIPE SIZES SUBJECT TO FINAL CONSTRUCTION DRAWING

### **CONSTRUCTION SEQUENCE:**

- 1. OBTAIN GRADING PERMIT FROM THE WAKE COUNTY ENVIRONMENTAL SERVICES DEPARTMENT.
- 2. CALL ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907) TO SCHEDULE A PRE-CONSTRUCTION MEETING. NOTIFY OWNER AND ENGINEER WHEN PRECON IS SCHEDULED SO THEY MAY ALSO ATTEND.
- (NCG010000) TO WAKE COUNTY INSPECTIONS THROUGHOUT THE PROJECT. INSTALL THE FOLLOWING EROSION AND SEDIMENTATION CONTROL DEVICES PER THE APPROVED PLAN IN THE

3. CONTRACTOR WILL BE REQUIRED TO SUBMIT SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY

- b. SILT FENCING SURROUNDING SITE WITH SILT FENCE OUTLETS. c. INLET PROTECTION FOR EXISTING INLETS WITHIN ROADWAYS
- 5. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
- 6. CLEAR AND GRUB AREA FOR FUTURE CONSTRUCTION. CONTRACTOR TO COORDINATE WITH DEVELOPER TO
- 7. CALL WAKE COUNTY ENVIRONMENTAL SERVICES FOR INSPECTION.
- 8. MAINTAIN DEVICES AS NEEDED IN ACCORDANCE WITH THE NOTES ON THIS SHEET.
- 9. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
- RAINFALL EVENT. GRADING ACTIVITY SHALL BE PROHIBITED IN THE AREAS OF THE SEDIMENT CONTROL DEVICES UNTIL THE AREAS UPSTREAM OF THESE DEVICES HAVE BEEN STABILIZED AND APPROVED.

10. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES ONCE PER WEEK AND AFTER EVERY

- 11. BEGIN CONSTRUCTION OF SANITARY SEWER INTERCEPTOR. AS AREAS AREA COMPLETED, STABILIZE SITE WITH
- 12. SUBMIT DOCUMENTATION REQUIRED UNDER THE SITE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY (NCG010000) TO WAKE COUNTY THROUGHOUT THE PROJECT.
- 13. ALL OFF-SITE STREETS SHALL BE KEPT CLEAN AS NOTED IN EROSION CONTROL NOTES DURING HAUL OFF OF EXCAVATED MATERIAL
- 14. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN 14 DAYS OF INACTIVITY.
- 15. PRIOR TO THE REMOVAL, OF ANY EROSION CONTROL DEVICES, THE CONTRACTOR IS TO CONTACT THE WAKE COUNTY ENVIRONMENTAL CONSULTANT JEEVAN NEUPANE, PE (919-819-8907).

### **EROSION CONTROL MAINTENANCE PLAN**

- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CHECKED BY THE SITE CONTRACTOR FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL MEASURES AS
- 2. THE SEDIMENT BASINS SHALL BE INSPECTED REGULARLY DURING LAND DISTURBING ACTIVITIES AND AFTER EACH RUNOFF-PRODUCING RAINFALL. SEDIMENT SHALL BE REMOVED AND THE BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF EACH BASIN. PORTIONS OF THE BASIN'S GRAVEL FACING THAT ARE CONTAMINATED BY SEDIMENT SHALL BE REPLACED WITH FRESH GRAVEL DURING EACH SEDIMENT REMOVAL EPISODE.
- 3. SEDIMENT FENCES SHALL BE INSPECTED AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE IMMEDIATELY, SEDIMENT DEPOSITS SHALL BE REMOVED AS NEEDED TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAINFALL EVENT, AND TO REDUCE PRESSURE ON THE FENCE. FENCING MATERIALS AND SEDIMENT DEPOSITS SHALL BE REMOVED, AND THE AREA BROUGHT TO GRADE FOLLOWING STABILIZATION OF UPGRADIENT DISTURBED AREAS.
- 4. DIVERSION DITCHES MUST REMAIN IN PLACE UNTIL PROJECT IS STABILIZED. PERMISSION SHALL BE GIVEN BY THE EROSION CONTROL INSPECTOR FOR REMOVAL UPON COMPLETION OF PERMANENT UPSTREAM

### STOCKPILE NOTES

- A. STOCKPILE FOOTPRINTS SHALL BE SETBACK A MINIMUM OF 25' FROM ADJACENT PROPERTY LINES.
- B. STOCKPILE HEIGHT SHALL NOT EXCEED 35 FEET.
- C. STOCKPILE SLOPES SHALL BE 2:1 OR FLATTER.
- D. OFF-SITE SPOIL OR BORROW AREAS MUST BE IN COMPLIANCE WITH WAKE COUNTY UDO AND STATE REGULATIONS. ALL SPOIL AREAS OVER AN ACRE ARE REQUIRED TO HAVE AN APPROVED SEDIMENT CONTROL PLAN, DEVELOPER/CONTRACTOR SHALL NOTIFY WAKE COUNTY OF ANY OFFSITE DISPOSAL OF SOIL, PRIOR TO DISPOSAL. FILL OF FEMA FLOODWAYS AND NON-ENCROACHMENT AREAS ARE PROHIBITED EXCEPT AS OTHERWISE PROVIDED BY SUBSECTION 14-19-2 OF THE WAKE COUNTY UNIFIED DEVELOPMENT ORDINANCE (CERTIFICATIONS AND PERMITS REQUIRED).
- E. SEEDING OR COVERING STOCKPILES WITH TARPS OR MULCH IS REQUIRED AND WILL REDUCE EROSION PROBLEMS. TARPS SHOULD BE KEYED IN AT THE TOP OF THE SLOPE TO KEEP WATER FROM RUNNING UNDERNEATH THE PLASTIC
- F. IF A STOCKPILE IS TO REMAIN FOR FUTURE USE AFTER THE PROJECT IS COMPLETE (BUILDERS, ETC.), THE FINANCIAL RESPONSIBLE PARTY MUST NOTIFY WAKE COUNTY OF A NEW RESPONSIBLE PARTY FOR THAT
- G. THE USE OF STAGED SEEDING AND MULCHING ON A CONTINUAL BASIS WHILE THE STOCKPILE IS IN USE IS
- H. ESTABLISH AND MAINTAIN A VEGETATIVE BUFFER AT THE TOE OF THE SLOPE (WHERE PRACTICAL).
- I. STOCKPILE MUST HAVE SILT FENCE WRAPPED AROUND THE LOW SIDE(S) AND A SILT FENCE OUTLET AT ALL

#### SEEDING AND MULCHING

SEEDING AND MULCHING SHALL BE CARRIED OUT IMMEDIATELY BEHIND CONSTRUCTION IN ACCORDANCE WITH FOLLOWING **SPECIFICATIONS** 

SEEDING SPECIFICATIONS			
SHO	SHOULDER, SIDE DITCHES, SLOPES (MAX 3:1)		
SEEDING PERIOD	TYPE	APPLICATION RATE	
SEEDING FERNOB		PER ACRE	PER 1000 SF
AUGUST 15 - NOVEMBER 1	TALL FESCUE	300#	7#
NOVEMBER 1 - MARCH 1	TALL FESCUE AND	300#	7#
NOVEWIDER 1 - WARCH 1	ABRUZZI RYE	25#	0.6#
MARCH 1 - APRIL 15	TALL FESCUE	300#	7#
APRIL 15 - JUNE 30	HULLED COMMON BERMUDAGRASS	25#	0.6#
	TALL FESCUE AND	120#	2.8#
JULY 1 - AUGUST 15	*BROWNTOP MILLET	35#	0.8#
	*OR SORHGUM-SUDAN HYBRIDS	30#	0.7#

SEEDING SPECIFICATIONS				
	SLOPES (3:1 TO 2:1)			
SEEDING PERIOD	G PERIOD TYPE		APPLICATION RATE	
SEEDING 1 EMOD		PER ACRE	PER 1000 SF	
MARCH 1 - JUNE 1 SERICEA LESPEDEZA (SCARIFIED)		50#	1.2#	
WINTER T SOILE T	AND			
MARCH 1 - APRIL 15	ADD TALL FESCUE	120#	2.8#	
MARCH 1 - JUNE 30	OR ADD WEEPING LOVE GRASS	10#	0.2#	
MARCH 1 - JUNE 30	OR ADD HULLED COMMON BERMUDAGRASS	25#	0.6#	
	*TALL FESCUE AND	120#	2.8#	
JUNE 1 - SEPTEMBER 1	*OR BROWNTOP MILLET	35#	0.8#	
	*OR SORGHUM-SUDAN HYBRIDS	30#	0.7#	
SEPTEMBER 1 - MARCH 1	SERICEA LESPEDEZA (UNHULLED, UNSCARIFIED)	70#	1.6#	
SEFTEINIDER I - INIANCH I	AND TALL FESCUE	120#	2.8#	
NOVEMBER 1 - MARCH 1	ADD ABRUZZI RYE	25#	0.6#	

TO GROW TO MORE THAN 12 INCHES HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.

CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT OR NORTH CAROLINA DIVISION OF SOIL AND WATER CONSERVATION FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE THAT DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE.

### SEEDBED PREPARATION

- 1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- 2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
- 3. REMOVE ALL LOOSE ROCK, ROOTS AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLE SMOOTH AND UNIFORM.
- 4. APPLY AGRICULTURAL LIME, FERTILIZER AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- 5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLE UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- 6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
- 7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.

8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND

- SHOULD BE OVER 60 PERCENT DAMAGED, RE-ESTABLISH FOLLOWING ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
- 9. CONSULT WAKE SOIL AND WATER CONSERVATION DISTRICT ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER
- \* APPLY: AGRICULTURAL LIMESTONE FERTILIZER SUPERPHOSPHATE MULCH ANCHOR

Know what's below.

Call before you dig.

- 2 TONS/ACRE (3/TONS/ACRES IN CLAY SOILS) 1000 LB/ACRE -10-10-10 - 500 LB/ACRE - 20 PERCENT ANALYSIS - 2 TONS/ACRE - SMALL GRAIN STRAW - ASPHALT EMULSION @ 300 GALS/ACRE

DISTURBED AREA = 3.98 AC.

ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST VERSION OF THE TOWN OF ROLESVILLE AND WAKE COUNTY SPECIFICATIONS AND DETAILS.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

#### SITE PERMITTING APPROVAL Water and Sewer Permits (If applicable)

The City of Raleigh consents to the connection and extension of the City's Public Sewer System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_\_\_\_\_\_\_ S-4979

The City of Raleigh consents to the connection and extension of the City's Public Water System as shown on this plan. The material and Construction methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_

The City of Raleigh consents to the connection to its public sewer system and extension of the private sewer collection system as shown on this plan. The material and constructions methods used for this project shall conform to the standards and specifications of the City's Public Utilities Handbook. City of Raleigh Public Utilities Department Permit # \_\_\_\_\_

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City of Raleigh Development Approval

City of Raleigh Review Officer

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

The John R. McAdams Company

2905 Meridian Parkway Durham, NC 27713 phone 919. 361. 5000

fax 919. 361. 2269

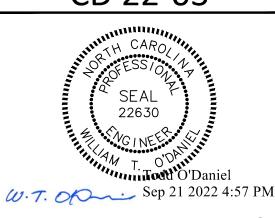
license number: C-0293, C-187

www.mcadamsco.com

#### CLIENT

ASHTON RALEIGH RESIDENTIAL, LLC 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 **CONTACT: BOB MISHLER** 

CD 22-03



### **REVISIONS**

1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS

2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS 3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS

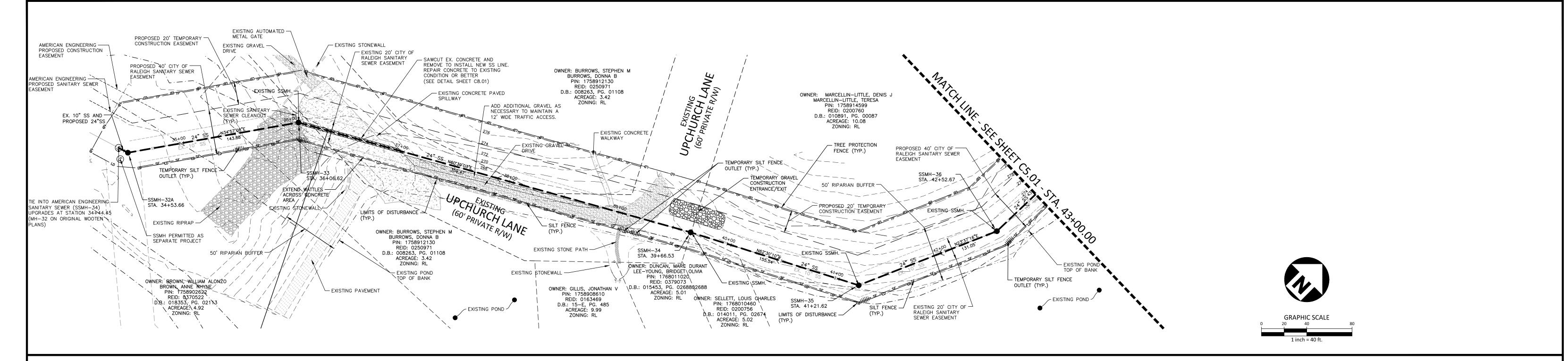
### PLAN INFORMATION

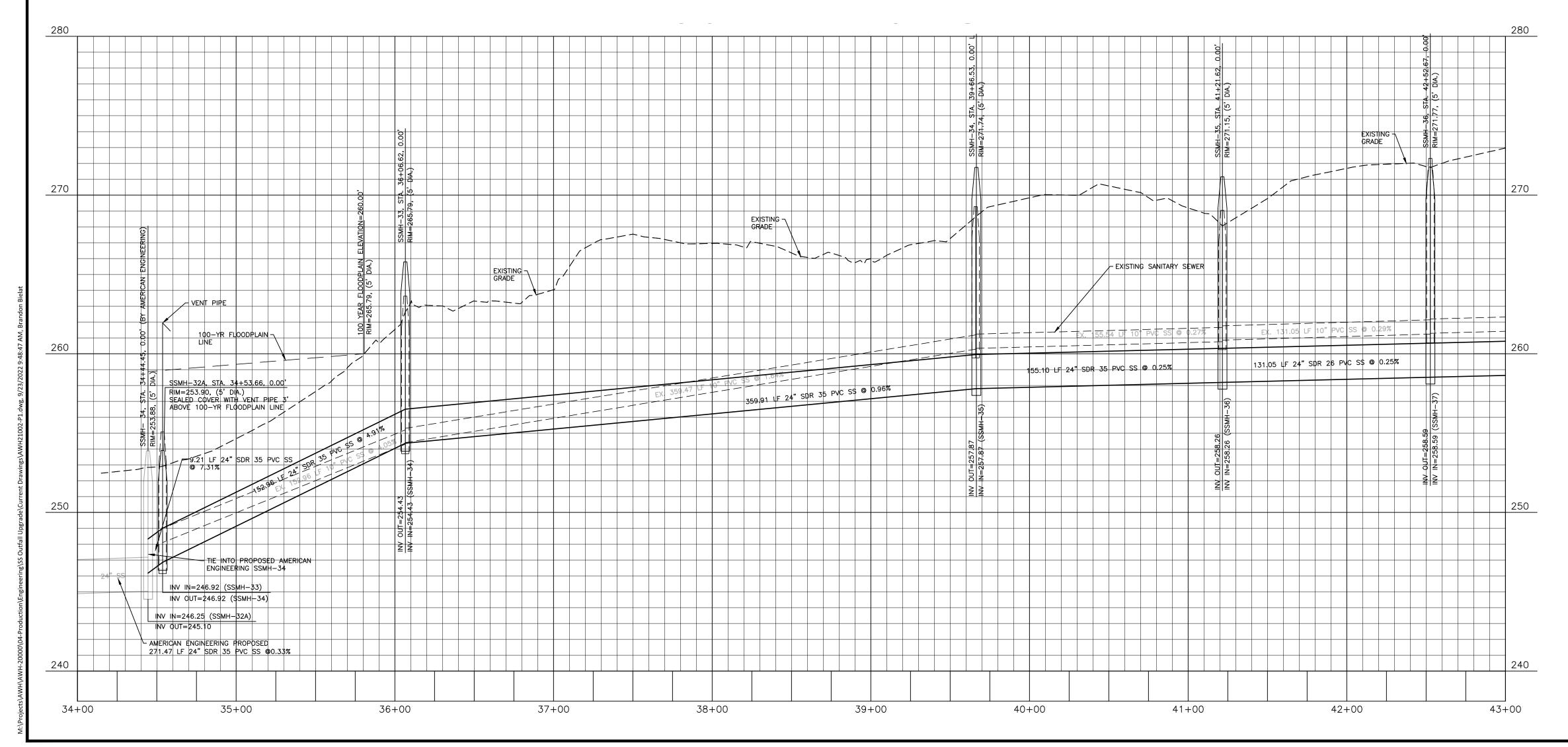
PROJECT NO. AWH-21002 FILENAME AWH21002-N1 CHECKED BY

DRAWN BY SCALE N.T.S. 11. 09. 2021

**SHEET** 

**PROJECT NOTES** 





BYPASS	ABLE		
SUCTION	DISCHARGE	QPEAK	
MANHOLE	MANHOLE	(GPM)	
MH37	MH36	177.97	
MH36	MH35	177.97	
MH35	MH34	177.97	
MH34	MH33	177.97	
MH33	MH34	177.97	

### SITE PERMITTING APPROVAL

### Water and Sewer Permits (If applicable)

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City of Raleigh Public Utilities Department Permit # \_\_\_\_\_\_

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City of Raleigh Development Approval \_\_\_\_\_

City of Raleigh Review Officer
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

www.mcadamsco.com

### CLIENT

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### REVISIONS

- 1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS
- 2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS
  3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS
- SEAL 22630

  Todd O'Daniel Sep 23 2022 10:53 AM

### HARRIS CREEK INTERCEPTOR IMPROVEMENTS

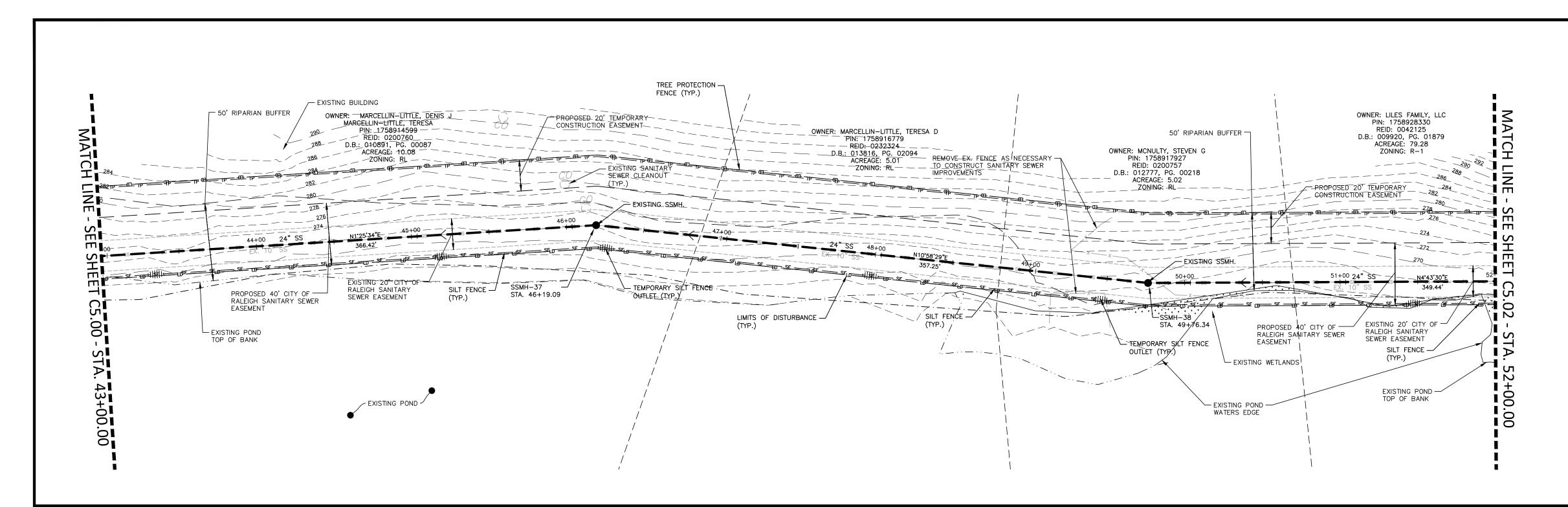
CONSTRUCTION DRAWINGS
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

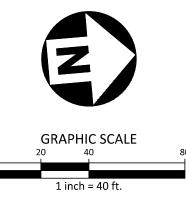
# PLAN INFORMATION PROJECT NO. AWH21002

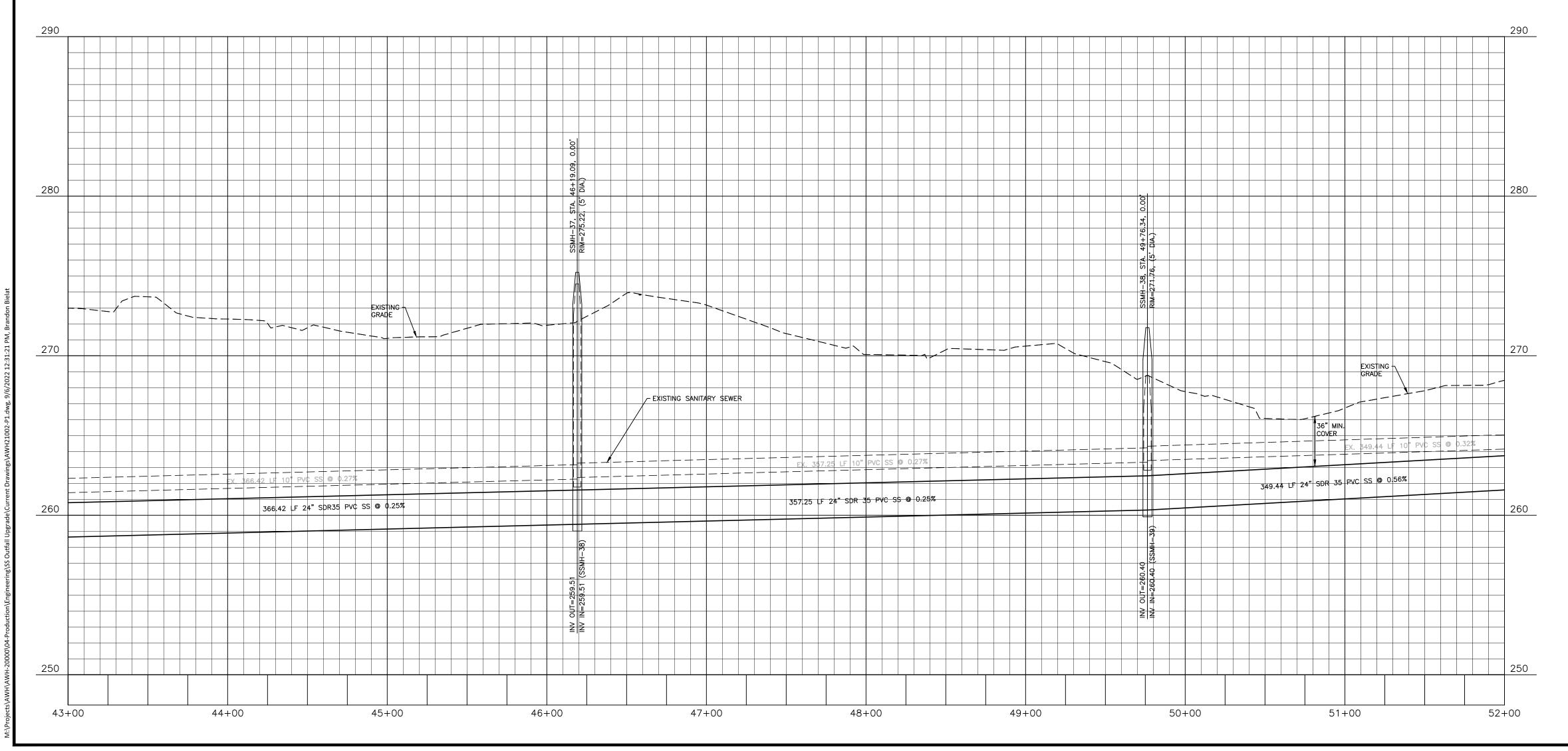
PROJECT NO. AWH21002
FILENAME AWH21002-P1
CHECKED BY WTO
DRAWN BY BB
SCALE 1"=40'/1"=4'
DATE 11. 09. 2021

PLAN AND PROFILE
HARRIS CREEK INTERCEPTOR
STA. 34+00 THRU STA. 43+00

C5.00







BYPASS	ABLE	
SUCTION	DISCHARGE	QPEAK
MANHOLE	MANHOLE	(GPM)
MH39	MH38	177.97
MH38	MH37	177.97
MH37	MH36	177.97

### SITE PERMITTING APPROVAL

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City of Raleigh Public Utilities Department Permit #\_\_\_\_\_\_

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City of Raleigh Development Approval

City of Raleigh Review Officer

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

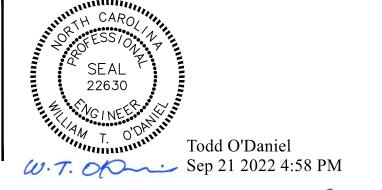
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### CLIENT

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  3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS



## HARRIS CREEK INTERCEPTOR IMPROVEMENTS

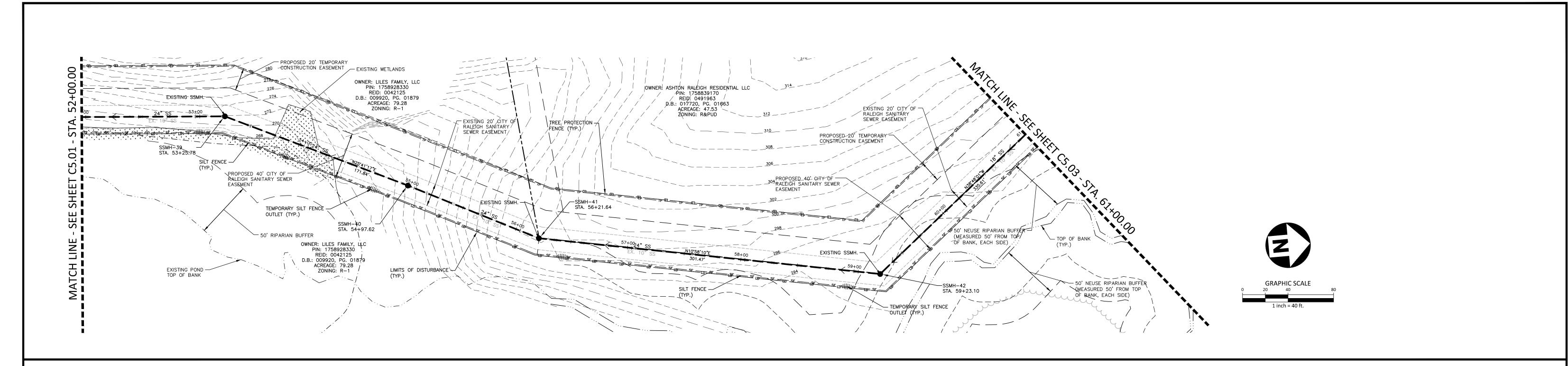
CONSTRUCTION DRAWINGS
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

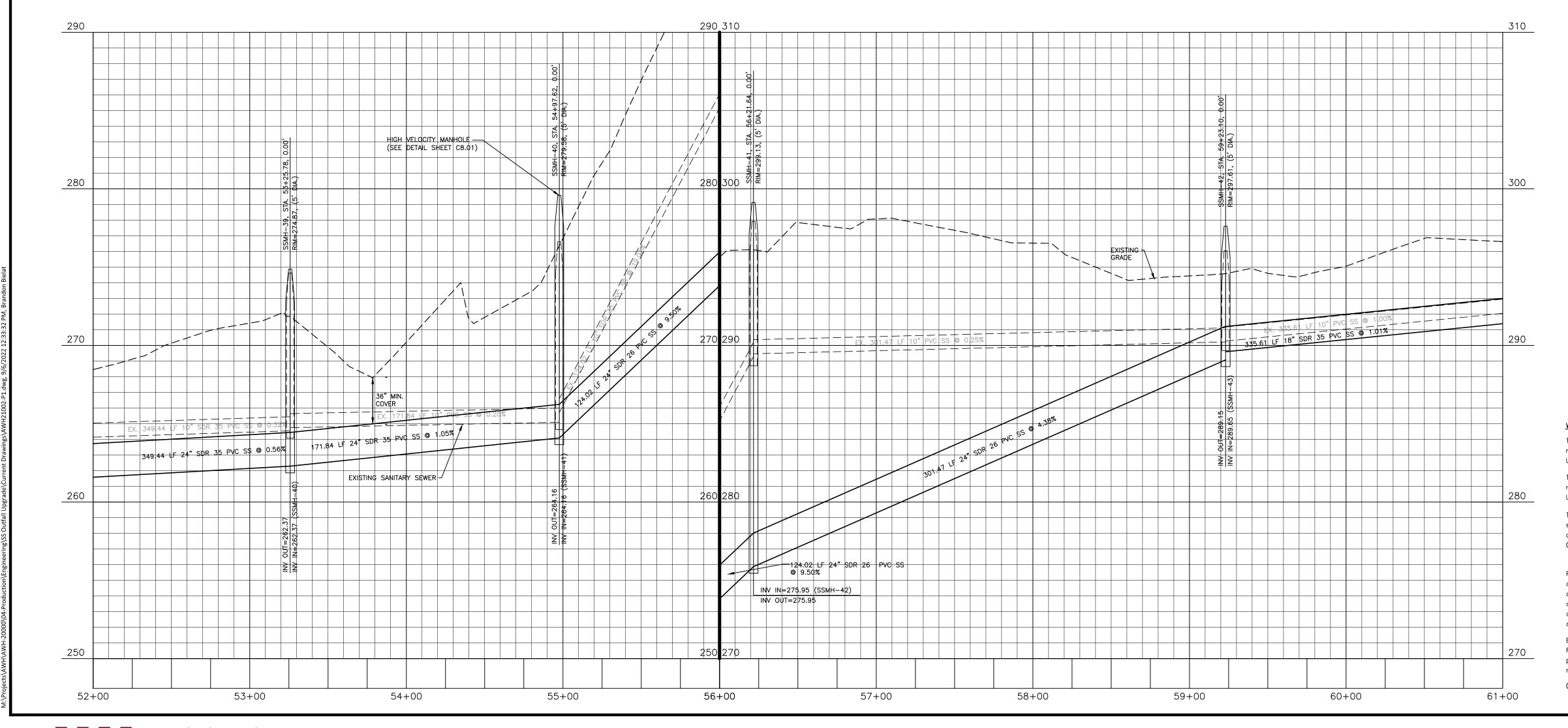
### PLAN INFORMATION PROJECT NO. AWH21002

PROJECT NO. AWH21002
FILENAME AWH21002-P1
CHECKED BY WTO
DRAWN BY BB
SCALE 1"=40'/1"=4'
DATE 11. 09. 2021

PLAN AND PROFILE
HARRIS CREEK INTERCEPTOR
STA. 43+00 THRU STA. 52+00

C5.01





BYPASS	ABLE	
SUCTION	DISCHARGE	QPEAK
MANHOLE	MANHOLE	(GPM)
MH43	MH42	177.97
MH42	MH41	177.97
MH41	MH40	177.97
MH40	MH39	177.97
MH39	MH38	177.97
		•

### SITE PERMITTING APPROVAL

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City of Raleigh Development Approval

City of Raleigh Review Officer
FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

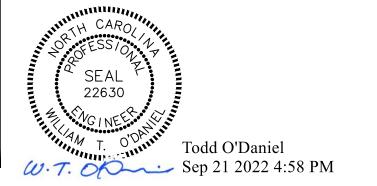
www.mcadamsco.com

### CLIENT

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### **REVISIONS**

- 1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS
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### HARRIS CREEK INTERCEPTOR IMPROVEMENTS

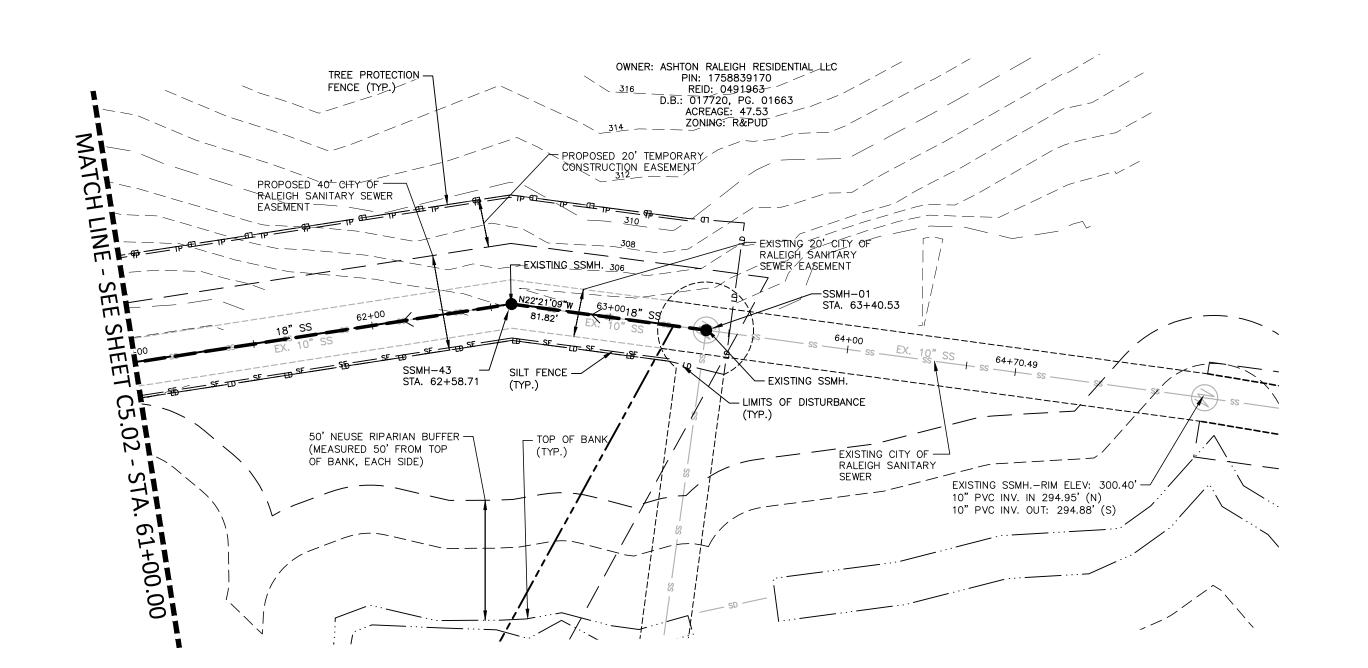
CONSTRUCTION DRAWINGS
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP,
WAKE COUNTY, NORTH CAROLINA

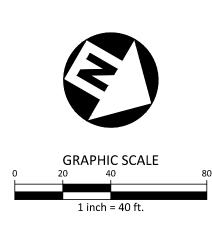
### PLAN INFORMATION PROJECT NO. AWH21002

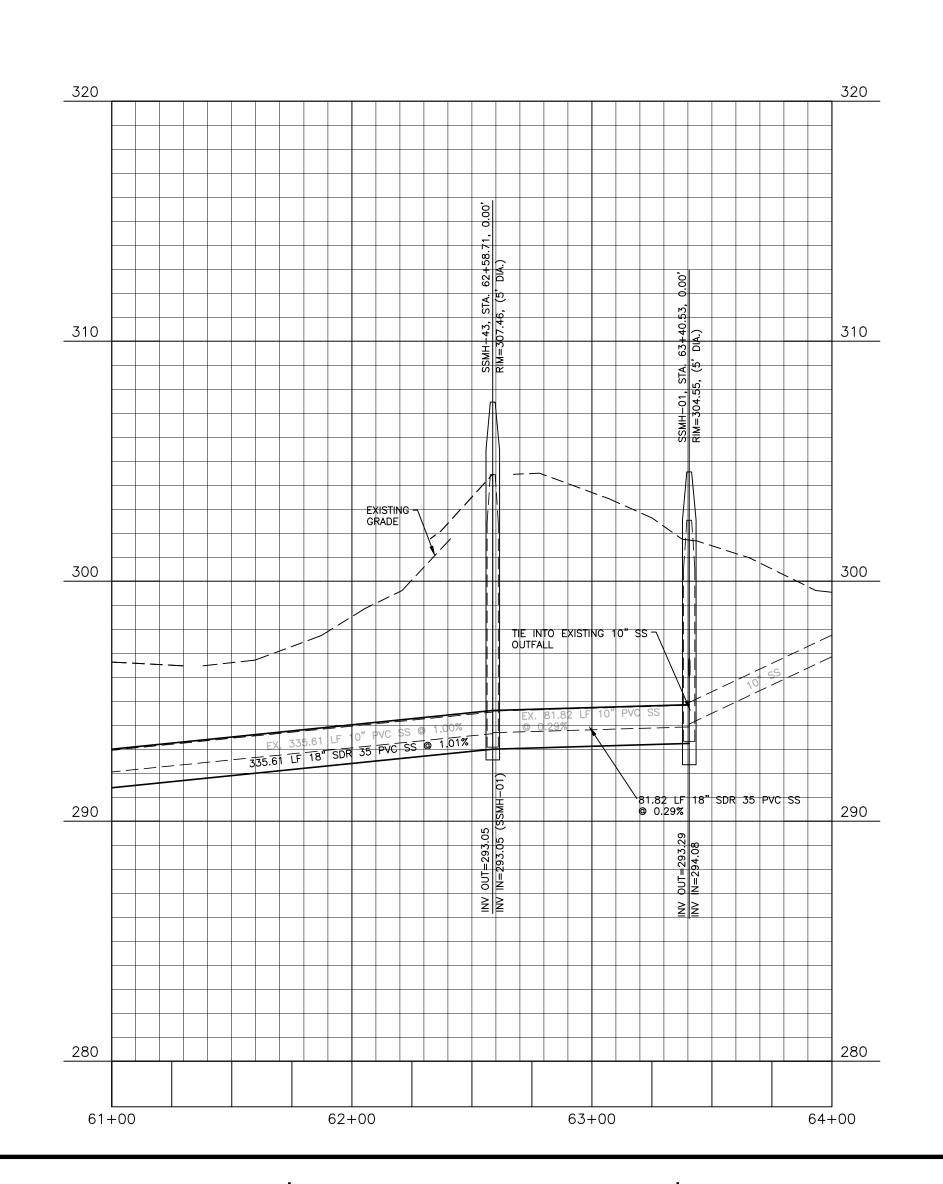
PROJECT NO. AWH21002
FILENAME AWH21002-P1
CHECKED BY WTO
DRAWN BY BB
SCALE 1"=40'/1"=4'
DATE 11. 09. 2021

PLAN AND PROFILE
HARRIS CREEK INTERCEPTOR
STA. 52+00 THRU STA. 61+00

C5.02







BYPASS PUMPING TABLE		
SUCTION	QPEAK	
MANHOLE	MANHOLE	(GPM)
MH01	MH43	177.97
MH43	MH42	177.97

### SITE PERMITTING APPROVAL

Water and Sewer Permits (If applicable)

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

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City of Raleigh Development Approval City of Raleigh Review Officer

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



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phone 919. 361. 5000 fax 919. 361. 2269 license number: C-0293, C-187

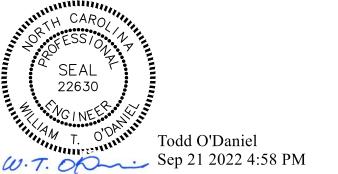
www.mcadamsco.com

### **CLIENT**

ASHTON RALEIGH RESIDENTIAL, LLC. 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 CONTACT: BOB MISHLER

### **REVISIONS**

- 1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS
- 2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS 3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS



# HARRIS CREEK INTERCEPTOR IMPROVEMENTS PLAN INFORMATION PROJECT NO. AWH21002

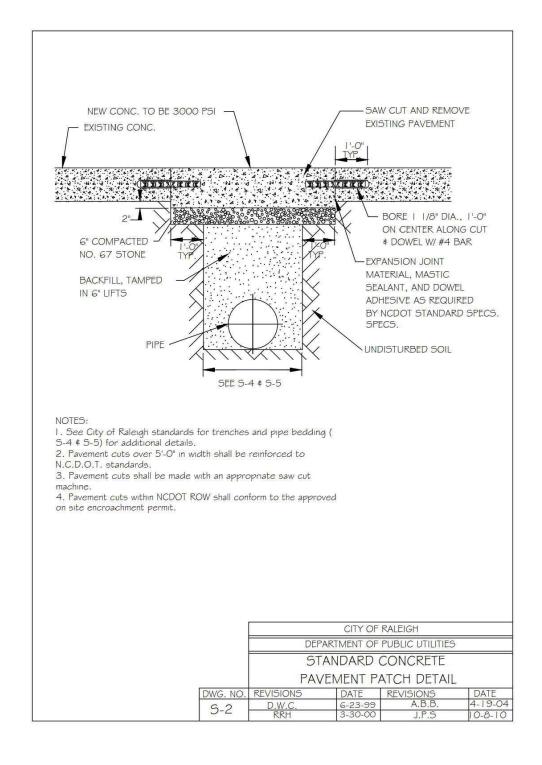
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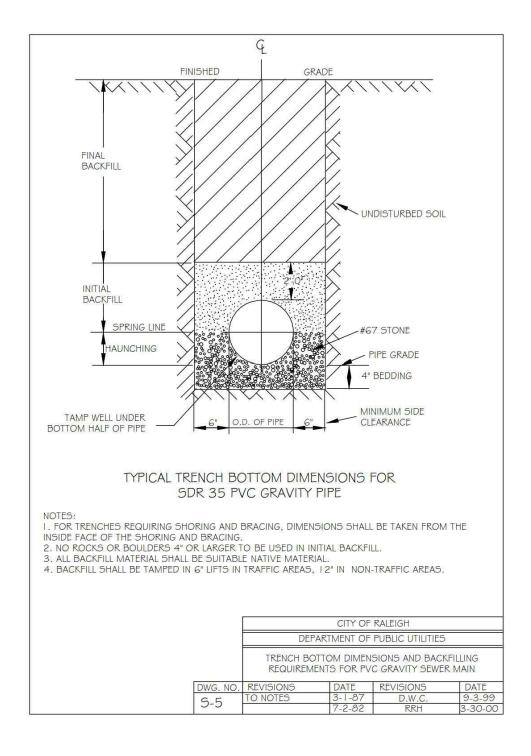
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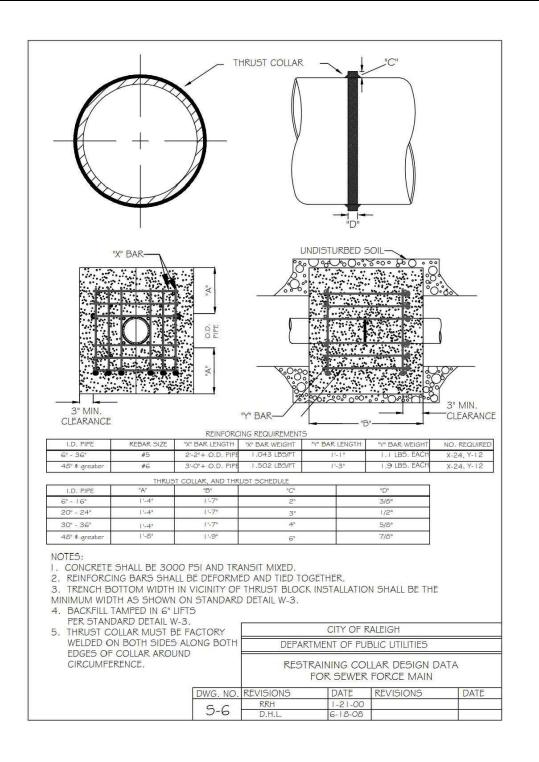
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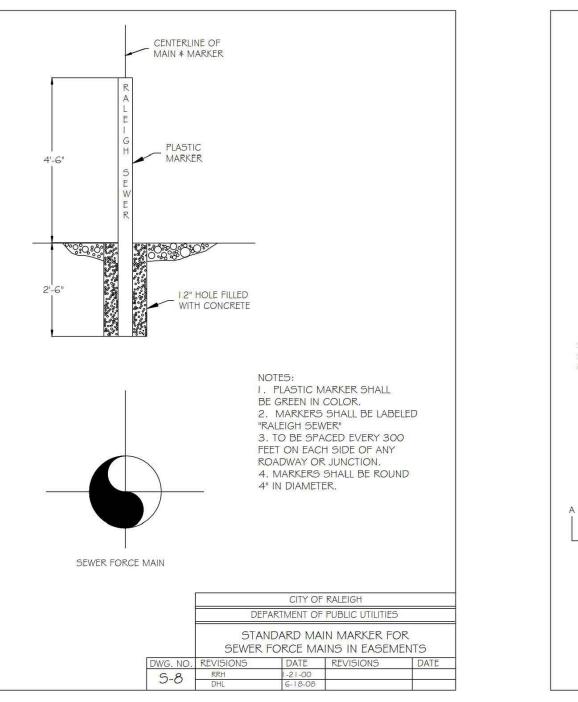
11. 09. 2021

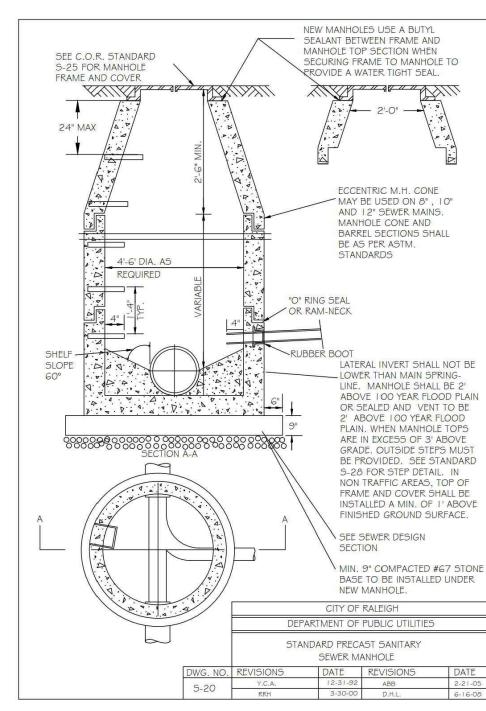
**PLAN AND PROFILE** HARRIS CREEK INTERCEPTOR STA. 61+00 THRU STA. 64+00

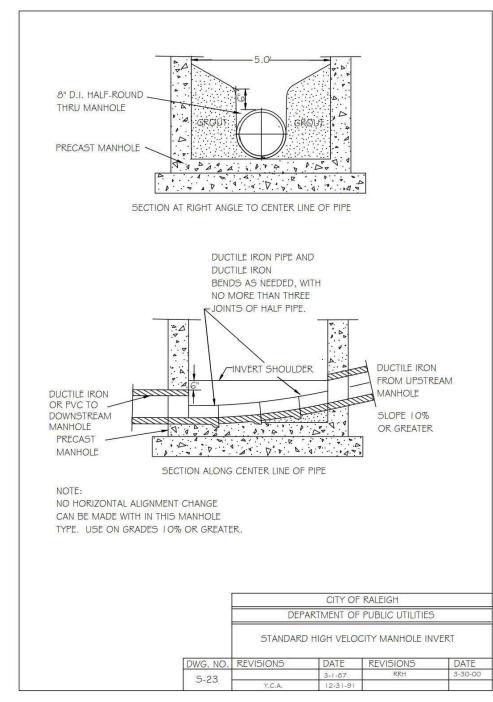


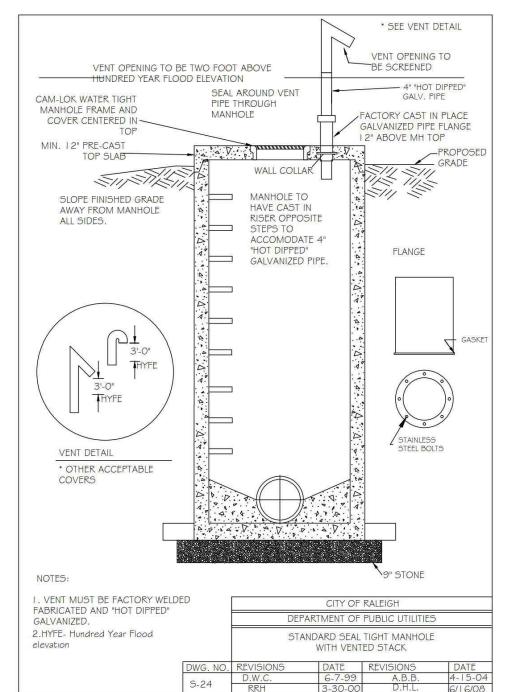


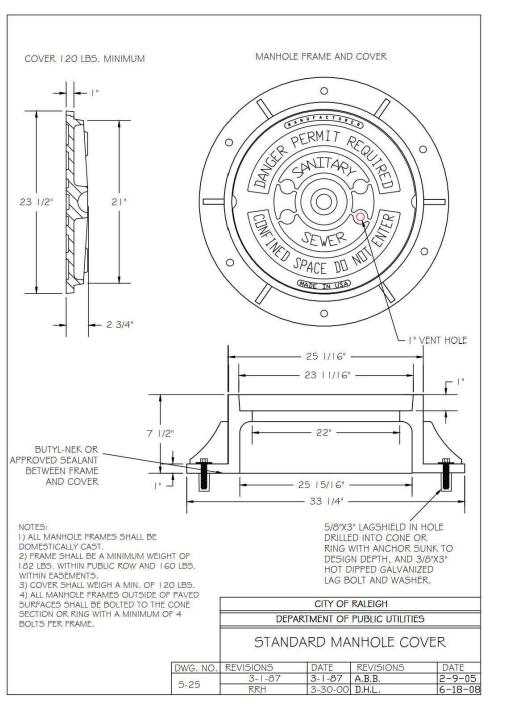


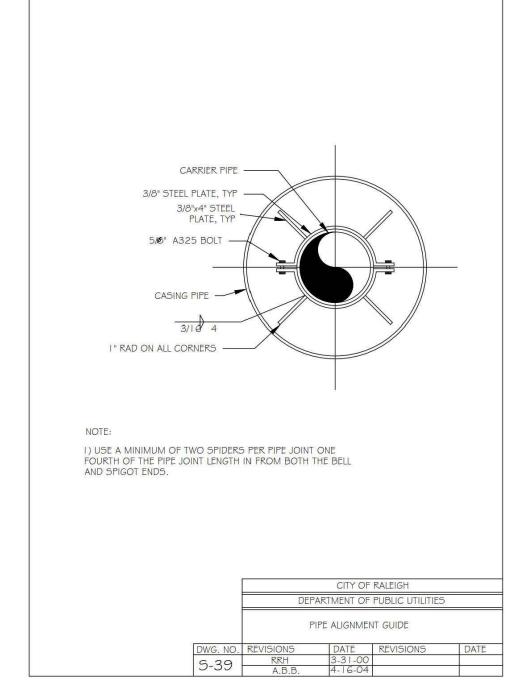


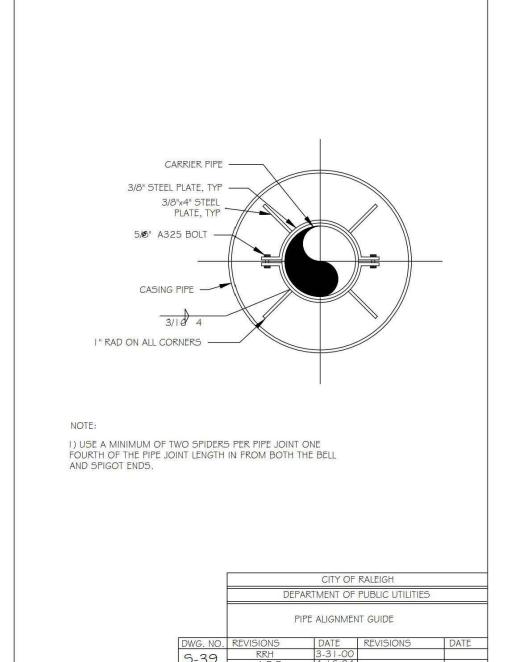


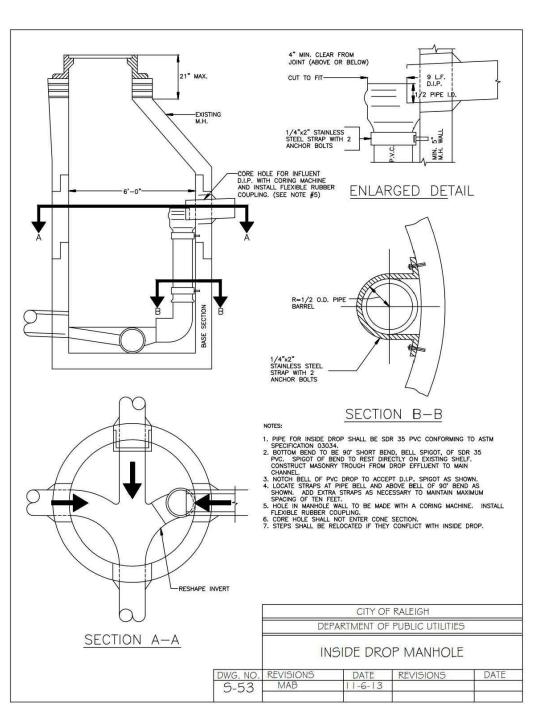


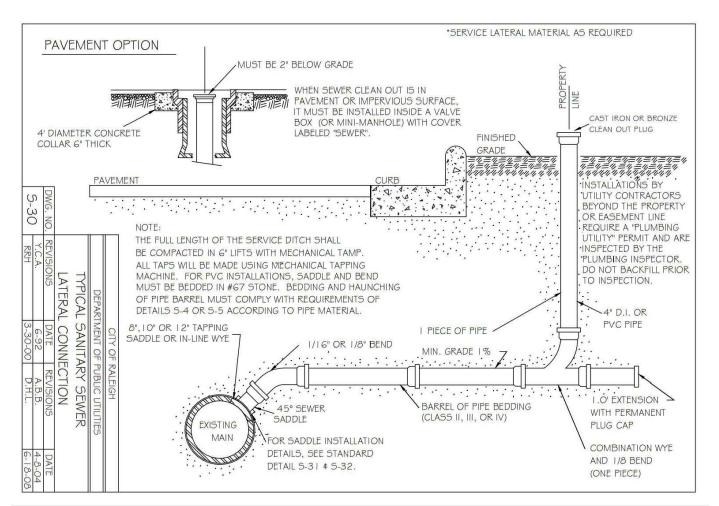


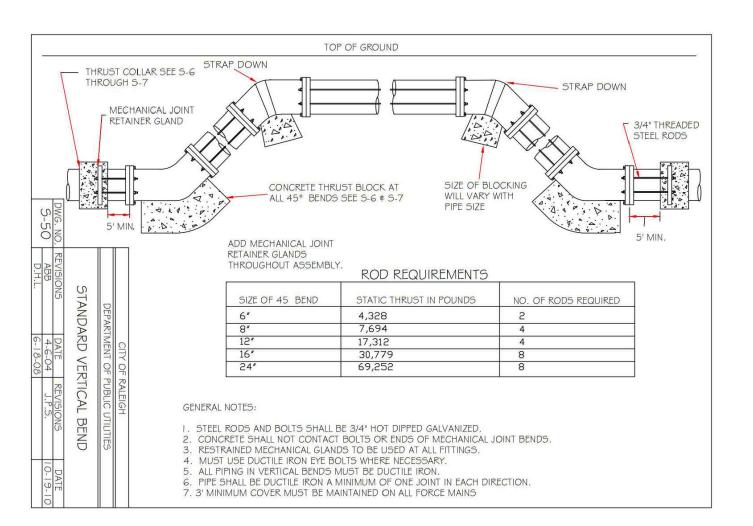












### SITE PERMITTING APPROVAL

### Water and Sewer Permits (If applicable)

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City of Raleigh Development Approval

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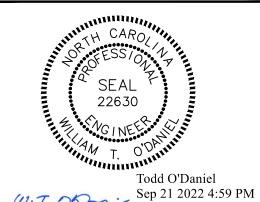
#### CLIENT

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ASHTON WOODS,

ш

CD 22-03



W.T. Opini

### **REVISIONS**

NO. DATE

1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS 2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS

3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS

### PLAN INFORMATION

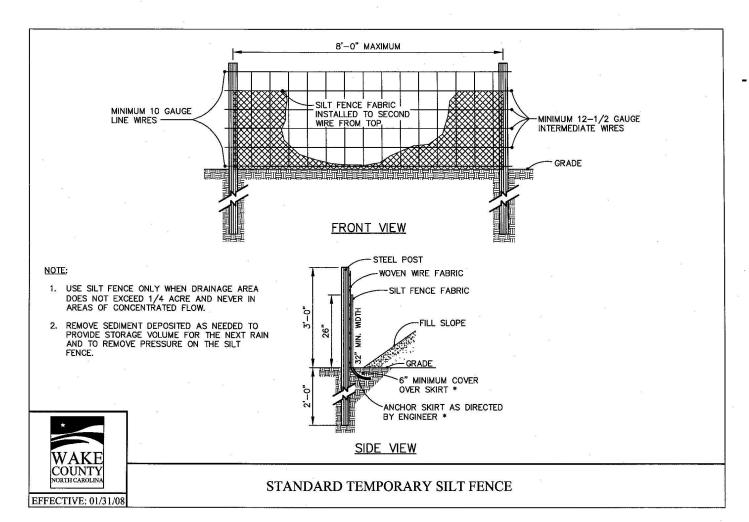
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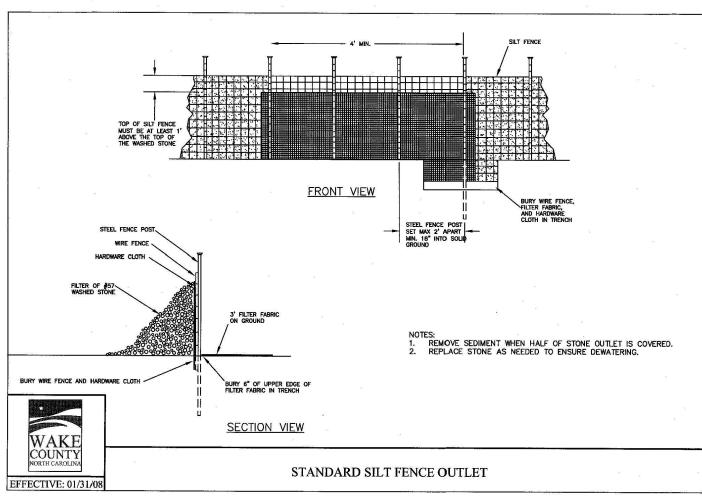
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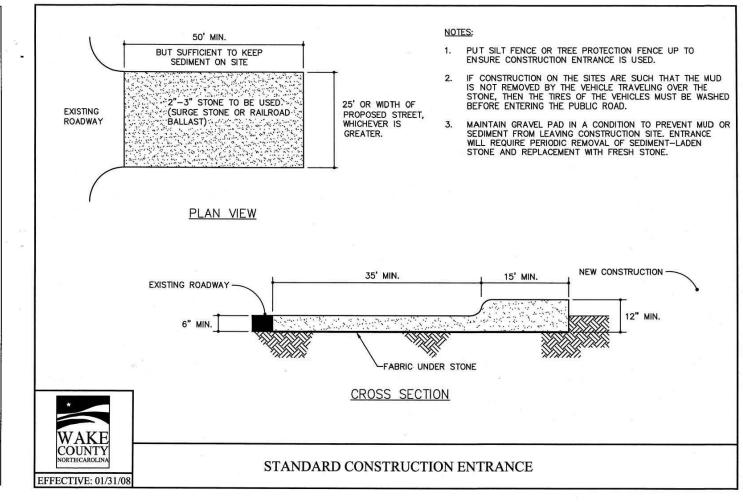
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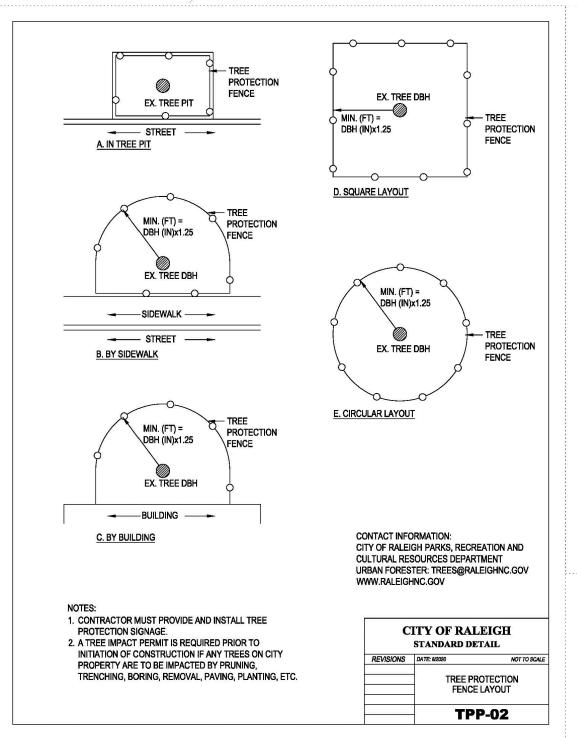
SHEET

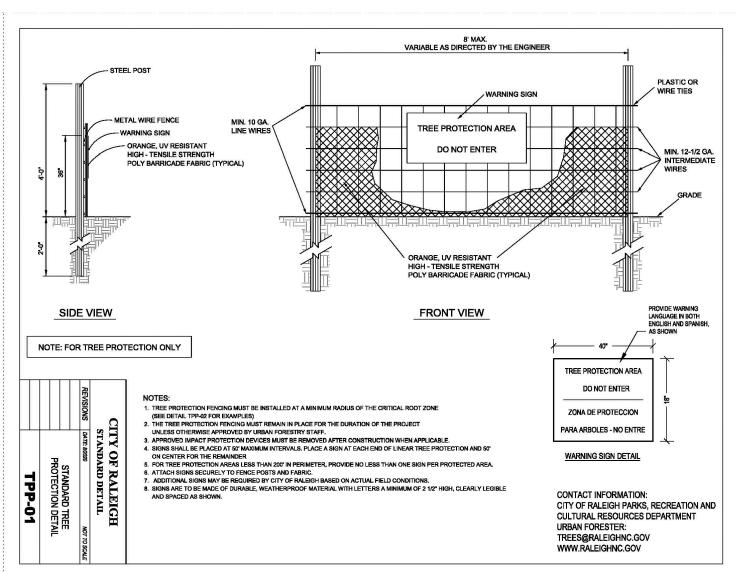
**SANITARY SEWER DETAILS** 











# SITE PERMITTING APPROVAL

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CITY OF RALEIGH - PLANS AUTHORIZED FOR CONSTRUCTION

Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All Construction must be in accordance with all Local, State, and Federal Rules and Regulations.

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

City of Raleigh Development Approval

City of Raleigh Review Officer

# McAdams

The John R. McAdams Company, Inc. 2905 Meridian Parkway Durham, NC 27713

phone 919. 361. 5000

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fax 919. 361. 2269 license number: C-0293, C-187

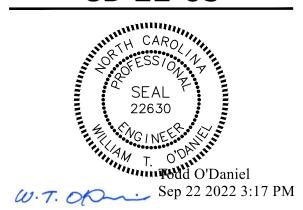
#### **CLIENT**

ASHTON RALEIGH RESIDENTIAL, LLC. 5711 SIX FORKS ROAD, SUITE 300 RALEIGH, NORTH CAROLINA 27609 PHONE: 919. 232. 3695 CONTACT: BOB MISHLER

ASHTON WOODS

ARRIS CREEK INTERCEPT IMPROVEMENTS
TOWN OF ROLESVILLE, WAKE FOREST TOWNSHIP

CD 22-03



- 0:

### **REVISIONS**

NO. DATE

1 03. 03. 2022 RESPOND TO MUNICIPAL COMMENTS

3 09. 07. 2022 RESPOND TO 3RD MUNICIPAL COMMENTS

2 07. 25. 2022 RESPOND TO 2ND MUNICIPAL COMMENTS

### PLAN INFORMATION

PROJECT NO. AWH-21002 FILENAME AWH21002-D1

CHECKED BY
DRAWN BY

SCALE N.T.S.
DATE 11. 09. 2021

SHEET

EROSION CONTROL DETAILS