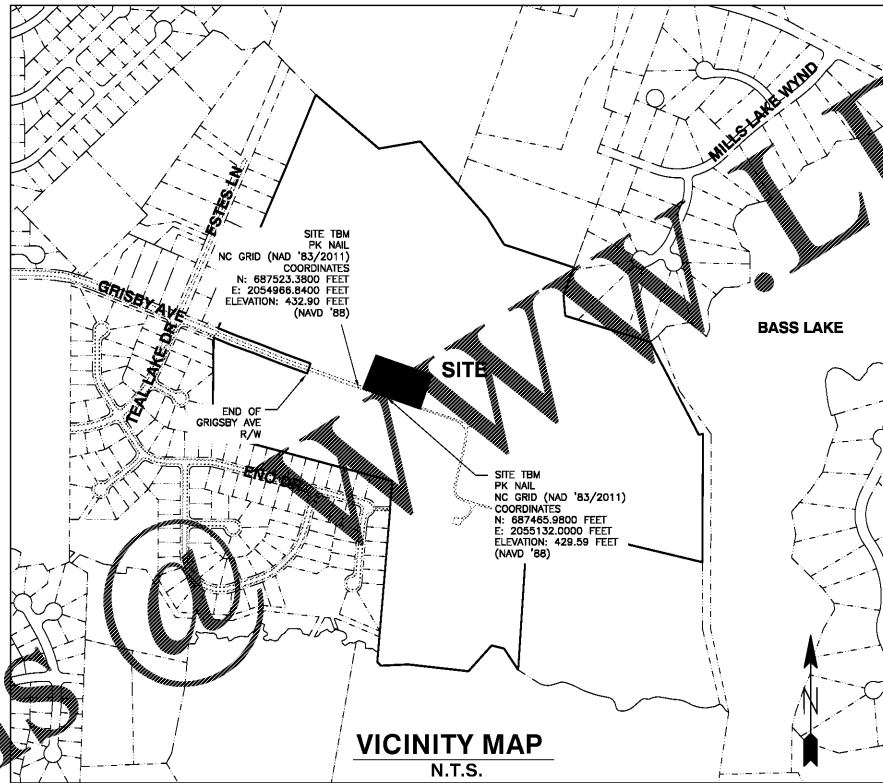


SYMBOLS AND ABBREVIATIONS

ABC	AGGREGATE BASE COURSE	□	EXISTING CURB INLET
ALUM	ALUMINUM	□	EXISTING GRAVE INLET/YARD INLET
AST2	ALUMINIZED STEEL - TYPE 2	□	EXISTING FLARED END SECTION
B-B	BACK TO BACK	⊕	EXISTING FIRE HYDRANT
BOA	BLOW-OFF ASSEMBLY	⊕	EXISTING BLOW-OFF ASSEMBLY
CAG	CURB AND GUTTER	⊕	EXISTING GATE VALVE
CFS	CUBIC FEET PER SECOND	⊕	EXISTING REDUCER
CI	CURB INLET	⊕	EXISTING WATER METER
CL	CENTER LINE	⊕	EXISTING SAN SEWER MANHOLE
CMF	CORRUGATED METAL PIPE	⊕	EXISTING CLEAN OUT
CO	CLEAN OUT	⊕	EXISTING POWER POLE
COM	COMMUNICATION	⊕	EXISTING TELEPHONE PEDESTAL
CONC	CONCRETE	⊕	EXISTING AREA LIGHT
DDV	DOUBLE CHECK VALVE	⊕	EXISTING SIGN
DDCV	DOUBLE DETECTOR CHECK VALVE	⊕	NEW CURB INLET
DI	DROP INLET	⊕	NEW GRATE INLET/YARD INLET
DIP	DUCTILE IRON PIPE	⊕	NEW FLARED END SECTION
EASC	EASEMENT	⊕	NEW FIRE HYDRANT
ELEC	ELECTRIC	⊕	NEW BLOW-OFF ASSEMBLY
EX	EXISTING	⊕	NEW GATE VALVE
FES	FLARED END SECTION	⊕	NEW REDUCER
FH	FIRE HYDRANT	⊕	NEW WATER METER
FM	FORCE MAIN	⊕	NEW TEE
FT	FEET	⊕	NEW PLUG
FT/SEC	FEET PER SEC	⊕	NEW MANHOLE
GA/V	GALVANIZED	⊕	NEW CLEAN OUT
GV	GATE VALVE	⊕	NEW SIGN
HDPE	HIGH DENSITY POLYETHYLENE	⊕	IRON PIPE
L	LENGTH	⊕	BENCHMARK
LF	LINEAR FEET	⊕	TEMP SILT FENCE
MH	MANHOLE	⊕	TEMP TREE PROTECTION FENCE
PAVE	PAVEMENT	⊕	TEMP COMB. SILT/TREE PROT. FENCE
PE	FINISHED PAD ELEVATION	⊕	TEMP DIVERSION DITCH
PP	POWER POLE	⊕	TEMP DIVERSION DITCH
PVC	POLYVINYL CHLORIDE	⊕	TEMP DIVERSION DITCH
R	RADIUS	⊕	TEMP DIVERSION DITCH
R/W	RIGHT-OF-WAY	⊕	TEMP DIVERSION DITCH
RED	REDUCER	⊕	TEMP DIVERSION DITCH
RCP	REINFORCED CONCRETE PIPE	⊕	TEMP DIVERSION DITCH
RPZ	REDUCED PRESSURE ZONE	⊕	TEMP DIVERSION DITCH
SS	SANITARY SEWER	⊕	TEMP DIVERSION DITCH
STA	STATION	⊕	TEMP DIVERSION DITCH
TD	TEMPORARY DIVERSION DITCH	⊕	TEMP DIVERSION DITCH
TLF	TELEPHONE	⊕	TEMP DIVERSION DITCH
TSE	TEMPORARY SEDIMENT BASIN	⊕	TEMP DIVERSION DITCH
UG	UNDERGROUND	⊕	TEMP DIVERSION DITCH
WCR	WHEELCHAIR RAMP	⊕	TEMP DIVERSION DITCH
W/L	WATER LINE	⊕	TEMP DIVERSION DITCH
WM	WATER METER	⊕	TEMP DIVERSION DITCH
YI	YARD INLET	⊕	TEMP DIVERSION DITCH

SUGG FARM PICNIC SHELTER

TOWN OF HOLLY SPRINGS, WAKE COUNTY, NORTH CAROLINA
DEVELOPMENT PLANS
 TOWN OF HOLLY SPRINGS PROJECT NO. XX-XX-XX



SITE DATA

PROJECT NAME:	SUGG FARM PICNIC SHELTER
PIN:	0658-57-4561
ADDRESS:	2401 GRIGSBY AVENUE HOLLY SPRINGS, NORTH CAROLINA
PUBLIC WATER LINE:	0
PUBLIC SEWER LINE:	0
RECLAIMED WATER LINES:	0
NEW STREETS:	0
FIRE LANE:	0
WATER TAPS:	1
SEWER TAPS (EX CLEANOUTS):	2
SEWER FLOW:	133,344 GPD
WATERSHED/BASIN:	NEUSE RIVER BASIN

I CERTIFY THAT THESE PLANS WERE PREPARED AND THAT THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING PLANS; THE LATEST EDITION OF ENGINEERING DESIGN AND CONSTRUCTION STANDARDS OF THE TOWN OF HOLLY SPRINGS AND OTHER APPLICABLE TOWN ORDINANCES AND POLICIES. THE ENGINEER WHOSE SEAL AND SIGNATURE APPEAR BELOW CERTIFIES THAT THE TOWN OF HOLLY SPRINGS ENGINEERING DESIGN AND CONSTRUCTION STANDARDS HAVE BEEN THOROUGHLY REVIEWED FOR APPLICABILITY TO THIS PARTICULAR PROJECT. ANY PROPOSED EXCEPTIONS OR DEVIATIONS FROM THE STANDARDS ARE LISTED SPECIFICALLY ON SHEET XX-XX-XX OF THESE DRAWINGS. FURTHERMORE, THESE PLANS WERE PREPARED IN CONFORMANCE WITH THE APPROVED PRELIMINARY PLAN FOR THIS PROJECT.

CONSTRUCTION NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPALITY STANDARDS, SPECIFICATIONS, AND DETAILS. WORK IN THIS PROJECT SHALL ALSO CONFORM TO THESE PLANS, THE LATEST EDITIONS OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS, THE ROAD AND BRIDGE STANDARDS, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS, THE FINAL GEOTECHNICAL REPORT, AND GENERAL DESIGN STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION.
- THE LOCATION AND SIZE OF EXISTING UTILITIES AS SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING AND PROTECTING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. AT LEAST 48 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL CONTACT THE NORTH CAROLINA ONE-CALL UTILITIES LOCATION SERVICE (1-800-368-8449) FOR PROPER IDENTIFICATION OF EXISTING UTILITIES WITHIN THE SITE.
- THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL REPAIR, AT HIS OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
- TRAFFIC CONTROL ON PUBLIC STREETS SHALL BE IN CONFORMANCE WITH THE TRAFFIC CONTROL PLAN, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND AS FURTHER DIRECTED BY CITY AND STATE INSPECTORS.
- ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE BY THE CONTRACTOR AFTER HIS DISCOVERY OF SUCH INCONSISTENCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ARRANGE THE MEETING WITH THE CITY ENGINEERING DIVISION.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL REQUIRED PERMITS AND APPROVALS PRIOR TO COMMENCING CONSTRUCTION.
- ALL AREAS SHALL BE GRADDED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SLOPE FENCES (OR OTHER METHODS APPROVED BY THE ENGINEER AND APPLICABLE MUNICIPALITY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION CONTROL, SEDIMENTATION, AND SILTATION DRAINAGES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
- THE CONTRACTOR SHALL CLEAR AND GRUB THE SITE AND PLACE, COMPACT, AND MOISTURE CONDITION ALL FILL TO MEET THE PROJECT GEOTECHNICAL ENGINEER'S SPECIFICATIONS. THE FILL MATERIAL TO BE USED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT.
- MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD AS SET OUT IN ASTM STANDARD D998. STONE BACKFILL SHALL BE COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR TEST AS SET OUT IN ASTM STANDARD D1557. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY.
- PROPOSED CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. PROPOSED SPOT ELEVATIONS AND ROADWAY PROFILES/SUPERELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
- THE CONTRACTOR SHALL REVIEW, VERIFY AND COORDINATE ALL DIMENSIONS SHOWN ON PLANS, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND GRATE INLETS AND ALL UTILITIES CROSSING THE STORM SEWER PRIOR TO STARTING PROJECT.
- ALL CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.
- ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA REQUIREMENTS AND THE NORTH CAROLINA STATE BUILDING CODE, VOL. 1-C ACCESSIBILITY CODE.
- OWNER SHALL PROVIDE FENCING AND OTHER SAFETY MEASURES NECESSARY IN AND AROUND ANY PROPOSED STORMWATER MANAGEMENT MEASURES (PONDS, WETLANDS, ETC.) OBTAINING PROPER PERMITS SHALL BE THE RESPONSIBILITY OF THE OWNER.
- RETAINING WALLS EXCEEDING 30 INCHES IN HEIGHT SHALL INCLUDE FALL PROTECTION IN THE FORM OF A HANDRAIL OR FENCING ON THE HIGH SIDE OF THE RETAINING WALL.
- PROPER COMPACTION OF ALL FILL SOILS PLACED ON SITE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COMPACTION SHALL BE ADEQUATE TO SUPPORT THE PROPOSED USE OF AREAS IN WHICH FILL SOILS ARE PLACED. THE CONTRACTOR SHALL HIRE A GEOTECHNICAL ENGINEER TO TEST AND VERIFY THAT COMPACTION IS ADEQUATE FOR THE PROPOSED USE OF IN THE AREA OF FILL PLACEMENT.
- ALL ASPECTS OF THIS PROJECT SHALL BE IN FULL COMPLIANCE WITH CURRENT ADA STANDARDS. IF THE CONTRACTOR NOTES ANY ASPECTS OF THE PROJECT WHICH ARE NOT IN COMPLIANCE, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY FURTHER WORK BEING PERFORMED. ANY WORK PERFORMED AFTER THE CONTRACTOR NOTES SUCH A NON COMPLIANCE IS SUBJECT TO REMOVAL AND REPAIR AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR OR OWNER SHALL EMPLOY A GEOTECHNICAL ENGINEER TO TEST ALL EMBANKMENTS AND FILL PLACEMENT FOR PROPER COMPACTION. PROPER COMPACTION SHALL BE PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS OR THESE PLANS, WHICHEVER IS MORE STRINGENT. EMBANKMENTS FOR PONDS SHALL BE PLACED IN 6 INCH LOOSE LAYERS AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D998. THE CONTRACTOR SHALL TAKE PHOTOGRAPHS OF THE OUTLET STRUCTURE AT ALL AT ALL PHASES OF INSTALLATION AND SHALL RETAIN WITH GEOTECHNICAL TESTING DATA. THE CONTRACTOR SHALL ALSO RETAIN ALL SHIPPING RECORDS AND SPECIFICATIONS FOR THE OUTLET STRUCTURE MATERIALS AND STRUCTURES. ALL OF THE ABOVE DATA MAY BE REQUIRED AS PART OF THE MUNICIPALITY AS-BUILT PROCESS AND SHALL BE MADE AVAILABLE TO THE ENGINEER UPON REQUEST. THE CONTRACTOR AND OWNER SHALL HAVE DOCUMENTATION OF THESE TESTS AVAILABLE UPON REQUEST.
- RETAINING WALLS SHOWN HEREIN SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER WITH EXPERIENCE DESIGNING RETAINING WALLS. AT LEAST 14 DAYS PRIOR TO BEGINNING CONSTRUCTION OF RETAINING WALLS, THE CONTRACTOR SHALL CONTACT THE OWNER'S GEOTECHNICAL ENGINEER TO SCHEDULE AND COORDINATE ALL APPROPRIATE INSPECTIONS, TESTING, AND VERIFICATION NECESSARY DURING RETAINING WALL CONSTRUCTION. THE GEOTECHNICAL ENGINEER SHALL PROVIDE CONTINUOUS INSPECTION, TESTING AND VERIFICATION FOR THE DURATION OF RETAINING WALL CONSTRUCTION. PROPER SCHEDULING, EXECUTION, AND RECORD KEEPING FOR ALL REQUIRED INSPECTIONS, TESTING, AND VERIFICATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH RECORDS SHALL BE RETAINED AND SHALL BE PROVIDED TO THE OWNER AND BASS, NIXON & KENNEDY, INC. ALL MONITORING, TESTING, AND VERIFICATION SHALL CONFORM TO THE MOST RECENT VERSION OF THE NC BUILDING CODE CHAPTER 18, SECTION 1806 OR THE WALL DESIGN ENGINEER'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.



SHEET INDEX

COVER	
C1.0	EXISTING CONDITIONS & DEMOLITION PLAN
C1.1	SITE PLAN
C3.1	UTILITY, GRADING AND DRAINAGE PLAN
C3.2	STAGE ONE EROSION CONTROL PLAN
C5.1	DETAILS
L1.1	LANDSCAPE PLAN
TC1.0	TREE CANOPY CALCULATION PRE-CONSTRUCTION
TC1.1	TREE CANOPY CALCULATION POST-CONSTRUCTION
A.2	ELEVATIONS

OWNER:
 TOWN OF HOLLY SPRINGS
 128 S. MAIN ST.
 HOLLY SPRINGS, NC 27540

CONTACT: KIMBERLY A. KEYES
 PHONE: (919) 557-2929
 EMAIL:
 kimberly.keyes@hollyspringsnc.us

**WEEKS
TURNER
ARCHITECTURE**

WEEKS TURNER ARCHITECTURE, PA
 3305-109 Durham Drive
 Raleigh, North Carolina 27603
 919.779.9797
 www.weeksturner.com

BNK
 BASS, NIXON & KENNEDY, INC.
 CONSULTING ENGINEERS
 8510 CHAPEL HILL ROAD, SUITE 250
 RALEIGH, NORTH CAROLINA 27607
 TEL: (919) 851-4422 or (800) 354-1979
 FAX: (919) 851-9958
 CERT NUMBERS: NCBELS (C-0110)
 NCBOLA (C-0287)

PROJECT TITLE
**SUGG FARM
PICNIC SHELTER**
 2401 GRIGSBY AVE.
 HOLLY SPRINGS, NORTH CAROLINA

PROJECT NO.
1732
 DRAWING TITLE

SHEET

PLOT DATE 12/11/18
 REVISION 02/15/19

This original sheet is 24" x 36", other dimensions indicate it has been altered.
 All information on this sheet is the property of Weeks Turner Architecture and may not be duplicated in whole or in part without written authorization from Weeks Turner Architecture. 2018 ©