WAKE COUNTY
WENDELL FALLS PUBLIC SAFETY CENTER
CONSTRUCTION PLAN

6021 TAYLOR ROAD
WENDELL, NC 27591

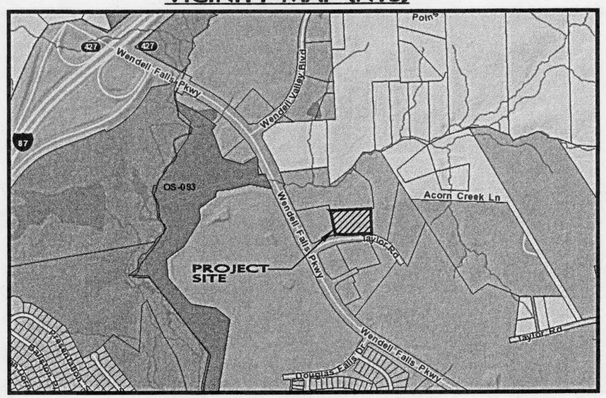
SITE DATA

PROJECT:	WENDELL FALLS PUBLIC SAFETY CENTER
OWNER:	WAKE COUNTY
CONTACT:	DAVID RUTHERFORD–SENIOR FACILITIES PROJECT MANAGER 336 FAYETTEVILLE STREET, SUITE 1100 RALEIGH, NC 27601 OFFICE: 919–856–6366
SITE DESIGNER:	CLH DESIGN, PA
SITE DESIGNER CONTACT:	ZAK PIERCE–LANDSCAPE ARCHITECT 400 REGENCY FOREST DRIVE, SUITE 120 CARY, NC 27518 PHONE: 919–319–6716 FAX: 919–319–7516
ARCHITECT:	ADW ARCHITECTS
ARCHITECT CONTACT:	MIKE ESPOSITO – ARCHITECT 2815 COLISEUM CENTRE DRIVE, SUITE 500 CHARLOTTE, NC 28217 PHONE: 704–749–5575 FAX: 704–379–1920
PROJECT ADDRESS:	6021 TAYLOR ROAD WENDELL, NC 27591
PLANNING JURISD:	TOWN OF WENDELL
PIN:	1763885333
ZONING:	PUD (ZONE 2)
BUILDING SETBACKS:	FRONT – 0' SIDE – 0' — PER WENDELL FALLS REVISED PUD REAR – 0'
SITE ACREAGE:	2.76 AC
WATERSHED:	NEUSE RIVER
STREAM BUFFERS:	NONE
F.I.R.M MAP #:	3720176300J (ZONE X: MINIMAL FLOOD RISK)
SITE IMPERVIOUS %:	45% IMPERVIOUS
EXISTING USE:	VACANT
PROPOSED USE:	CIVIC (PUBLIC SAFETY STATION)
EXISTING GFA:	0 SF
PROPOSED GFA:	16,659 SF
MAX. BLDG HEIGHT:	32'–0"
PARKING DATA	
STANDARD:	2 SPACES PER 1000 SF GFA
SPACES REQ'D:	33
SPACES PROVIDED:	42
HDCP REQ'D:	2
HDCP PROVIDED:	2
BIKE STANDARD:	1 SPACE PER 20 VEHICLE SPACES
SPACES REQ'D:	3 SPACES
SPACES PROVIDED:	4 SPACES (TWO RACKS)
PERMITTING JURISDICTIONS	
ZONING:	TOWN OF WENDELL
DRIVEWAY:	NCDOT
WATER/SEWER:	CITY OF RALEIGH
EROSION CONTROL:	NCDEQ

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Administrator

VICINITY MAP (NTS)



PROJECT TEAM

ARCHITECTURAL
ADW ARCHITECTS
2815 COLISEUM CENTRE DRIVE, STE 500
CHARLOTTE, NC 28217

CIVIL ENGINEERING AND LANDSCAPE ARCHITECTURE
CLH DESIGN, PA
400 REGENCY FOREST DR., STE. 120
CARY, NC 27518

INDEX OF DRAWINGS

CIVIL

C000 COVER SHEET
C100 SITE STAKING PLAN
C200 SITE EXISTING CONDITIONS/DEMO PLAN
C300 SITE GRADING PLAN
C400 EROSION CONTROL PLAN - INITIAL INSTALL
C401 EROSION CONTROL PLAN
C500 SITE UTILITY PLAN
C600 LANDSCAPE PLAN
C701 DETAILS
C702 DETAILS
C703 DETAILS
C704 DETAILS
C705 DETAILS
C706 DETAILS
C707 DETAILS
C708 DETAILS

ARCHITECTURAL

A200 ELEVATIONS

DUKE ENERGY

SITE LIGHTING PLAN - SHEET 1
SITE LIGHTING PLAN - SHEET 2

City of Raleigh
North Carolina

Certificate of Compliance
New Construction

November 19, 2018

CLH Design
Attn: Y'Hoshua Aal-Anubia
400 Regency Forest Dr Ste 120
Cary, NC 27518

Re: 6021 Taylor Rd
PIN: 1763885333
Service Request ID: 439885

Domestic Service containment backflow approved: Wilkins 375
Backflow location: Containment backflow to be installed within 50 linear piping feet as shown on submitted plans. Installation to be according to City of Raleigh's Appendix A: Guidelines and Requirements for the Cross Connection Program and NC Plumbing Code.

Fire Service containment backflow approved: Wilkins 375ADA
Backflow location: Containment backflow to be installed within 50 linear piping feet as shown on submitted plans. Installation to be according to City of Raleigh's Appendix A: Guidelines and Requirements for the Cross Connection Program and NC Plumbing and Fire Code.

All installed containment backflows must meet the definition of approved containment assembly as stated in the Appendix A: Guidelines and Requirements for the Cross Connection Program.

Sincerely,

Joanie S. Hartley
City of Raleigh-Public Utilities
Cross Connection Coordinator
cross.connection@raleighnc.gov
919-996-2747 Office

From: Calverley, Stephen <Stephen.Calverley@raleighnc.gov>
Sent: Wednesday, June 20, 2018 11:27 AM
To: Daniel Revilla <drevilla@optimapa.com>
Cc: Calverley, Stephen <Stephen.Calverley@raleighnc.gov>; FOG <FOG@raleighnc.gov>; Worthy, Christopher <Christopher.Worthy@raleighnc.gov>
Subject: 6021 Taylor Road, Wendell, NC 27591 Wendel Falls Fire Station - Grease Trap and Oil-Water Separator

Danny,

The city of Raleigh Public Utilities offers no objection to **Wendell Fire Station located at 6021 Taylor Rd Wendell NC 27591** operating with the proposed 1000 gallon oil water separator. The oil water separator must conform to S40 detail attached. The city of Raleigh Public Utilities offers no objection to **Wendell Fire Station located at 6021 Taylor Rd Wendell NC 27591** operating **without** the requirement of a grease interceptor for the kitchen. If the scope of the food service operation should change to include the installation of commercial fixtures then a grease interceptor may be required.

Thank you,

Stephen Calverley
City of Raleigh
Public Utilities
Utility Analyst
Fats, Oil and Grease Coordinator
919-609-3227 Mobile
919-996-2334 Office
Stephen.Calverley@raleighnc.gov

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Phone: (919)319-6716
Fax: (919)319-7516
LA: C-106, PE: C-1595

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE
12-20-18

WAKE COUNTY
NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

COVER

DATE	12.20.2018
PROJECT NO	16012
CLH PROJECT NO	16-125

REVISIONS

NO	DATE	DESCRIPTION:

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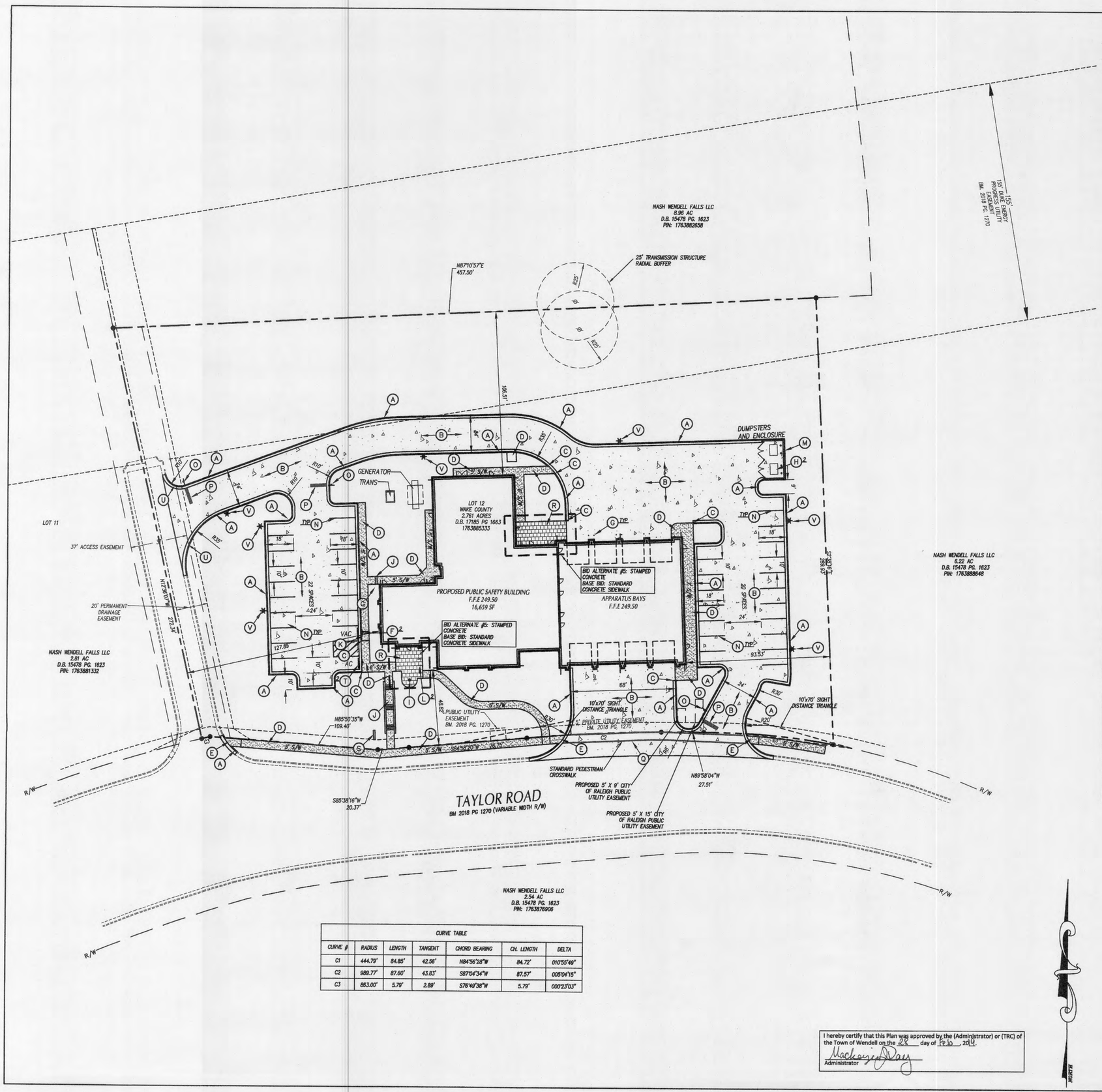
SEAL

C000

SHEET NUMBER



CURVE TABLE						
CURVE #	RADIUS	LENGTH	TANGENT	CHORD BEARING	CH. LENGTH	DELTA
C1	444.79'	84.85'	42.56'	N84°56'28"W	84.72'	010°55'49"
C2	989.77'	87.60'	43.83'	S87°04'34"W	87.57'	005°04'15"
C3	863.00'	5.79'	2.89'	S76°49'38"W	5.79'	000°23'03"

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb 2019.

Administrator

GENERAL NOTES- STAKING

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF WENDELL AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADIUS' ARE 4 FT UNLESS OTHERWISE SHOWN.
7. ALL PARKING SPACES SHALL BE 10' WIDE X 18 FT DEEP MIN.
8. (AC) DENOTES ACCESSIBLE PARKING SPACE.
9. (VAC) DENOTES VAN ACCESSIBLE PARKING SPACE.
10. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%
13. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) 24" CURB & GUTTER, SEE DETAIL SHEET C7.3.
- (B) CONCRETE PAVEMENT, SEE DETAIL SHEET C7.3.
- (C) STANDARD CURB & GUTTER TERMINUS, SEE DETAIL SHEET C7.3.
- (D) CONCRETE SIDEWALK, SEE DETAIL SHEET 7.3.
- (E) ACCESSIBLE CURB RAMP, SEE DETAIL SHEET C7.3.
- (F) ACCESSIBLE PARKING AND SIGNAGE, SEE DETAIL SHEET C7.3.
- (G) SEE ARCHITECTURAL PLANS FOR CANOPY, SCREEN AND STRUCTURAL WALLS, BUILDING COLUMNS, AND BOLLARDS.
- (H) DUMPSTER, PROVIDED BY OWNER.
- (I) FLAGPOLE, SEE ARCHITECTURAL SPECIFICATIONS FOR DETAILS.
- (J) CONCRETE STEPS WITH HANDRAILS AND CHEEK WALLS, SEE ARCH. DETAILS.
- (K) ACCESSIBLE PARKING CURB RAMP, SEE DETAIL SHEET C7.3.
- (L) BIKE RACKS, SEE DETAIL SHEET C7.3.
- (M) DUMPSTER ENCLOSURE, SEE ARCH. DETAILS.
- (N) PARKING SPACE MARKING, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (O) STOP SIGN, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (P) STOP BAR, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (Q) STANDARD CROSSWALK, SEE TRAFFIC CONTROL NOTES THIS SHEET.
- (R) STAMPED CONCRETE, SEE ARCH. SPECIFICATIONS. BID ALTERNATE #5, STANDARD CONCRETE SIDEWALK IS BASE BID.
- (S) FIRE STATION SIGN, SEE ARCH. DETAILS.
- (T) PRE-CAST CONCRETE WHEELSTOP, SEE DETAIL SHEET C703.
- (U) 10' TRANSITION FROM 30" TO 24" CURB AND GUTTER.
- (V) DUKE ENERGY LIGHT POLE, SEE ELECTRICAL PLANS.

TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

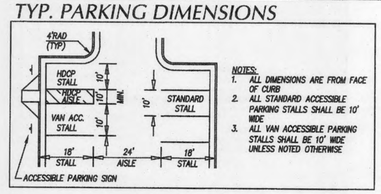
SIGN	MUTCD STD.	SIZE
STOP	R1-1	30"x30"

2. ALL SIGNS SHALL BE MOUNTED WITH 7-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 2-LB. GALV. STEEL U-CHANNEL POST SET IN 3-FT DEEP x 12-IN DIA. CONCRETE FOOTING.
3. ALL PAVMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACE	-	4-IN	WHT.
SOLID	1205.1	4-IN	WHT.
CROSSWALK	1205.07(STANDARD)	8-IN	WHT.
STOP BAR	-	24-IN	WHT.

4. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACES WHICH MAY BE THERMOPLASTIC OR ALKYD-RESIN TYPE PAINT PER TOWN OF WENDELL STANDARDS.
5. ALL SIGNAGE SHALL BE FIELD STAKED AND THE LOCATIONS APPROVED BY CLH DESIGN PRIOR TO SIGN INSTALLATION.
6. ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.

TYP. PARKING DIMENSIONS



GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)

1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS

PUBLIC SAFETY CENTER

WENDELL, NC

STAKING PLAN

DATE	12.20.2018
PROJECT NO	16012
CLH PROJECT NO	16-125

REVISIONS

NO	DATE	DESCRIPTION:

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SEAL

C100

SHEET NUMBER

LEGEND

STRUCTURES/UTILITIES TO BE REMOVED		STRUCTURES/UTILITIES TO REMAIN	
OVERHEAD ELECTRICAL	E	OVERHEAD ELECTRICAL	E
UNDERGROUND ELECTRICAL	UE	UNDERGROUND ELECTRICAL	UE
FIRE PROTECTION	FP	FIRE PROTECTION	FP
GAS	G	GAS	G
SANITARY SEWER	SS	SANITARY SEWER	SS
TELEPHONE	T	TELEPHONE	T
UNDERGROUND TELEPHONE	UT	UNDERGROUND TELEPHONE	UT
FIBER OPTIC	FO	FIBER OPTIC	FO
WATER	W	WATER	W
FORCE MAIN	FM	FORCE MAIN	FM
STORM DRAIN		STORM DRAIN	
INDIVIDUAL TREE TO BE REMOVED.		INDIVIDUAL TREE TO REMAIN.	
LIGHT POLE	LP	LIGHT POLE	LP
UTILITY POLE	PP	UTILITY POLE	PP
MANHOLE	MH	MANHOLE	MH
CLEAN OUT	CO	CLEAN OUT	CO
DROP INLET,CATCH BASIN	DI, CB	DROP INLET,CATCH BASIN	DI, CB
FIRE HYDRANT	FH	FIRE HYDRANT	FH
WATER VALVE	WV	WATER VALVE	WV
CONSTR./CLEARING LIMITS		PAVEMENT, S/W, C&G TO BE REMOVED.	
TREE PROTECTION FENCE			

GENERAL NOTES

1. ALL EXISTING STRUCTURES AND UTILITIES SHALL BE REMOVED AS NEEDED TO ALLOW NEW CONSTRUCTION. IN GENERAL, FEATURES INDICATED IN BOLD ON THIS PLAN SHALL BE REMOVED.
2. ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT FOR NEW PAVEMENT, SIDEWALK, OR CURB AND GUTTER, ETC. ANY EXISTING PAVEMENT, SIDEWALK, CURB AND GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH PRE-CONSTRUCTION CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS TO BE REMOVED).
3. ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
4. ALL WASTE MATERIAL GENERATED FROM DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS.
5. EXISTING SITE BOUNDARY AND TOPOGRAPHIC SURVEY INFORMATION WAS TAKEN FROM SURVEY BY MCKIM & CREED, PERFORMED 4-20-2018. THESE PLANS DO NOT ASSUME ANY LIABILITY FOR ANY EXISTING INFORMATION BOTH SHOWN AND NOT SHOWN ON THE SURVEY AND ANY CHANGES TO THE EXISTING CONDITIONS THAT MAY HAVE OCCURRED AFTER THE SURVEY WAS ISSUED. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. INSTALL TREE PROTECTION FENCING PRIOR TO BEGINNING CLEARING OPERATIONS. CLEAR AND GRUB ALL AREAS AS SHOWN AND REQUIRED TO PERMIT INSTALLATION OF NEW CONSTRUCTION PER SPECIFICATIONS AND DRAWINGS. EXISTING TREES, SHRUBS OR OTHER LANDSCAPE MATERIAL WHICH WILL CONFLICT WITH NEW CONSTRUCTION SHALL BE REMOVED (WHETHER OR NOT SHOWN ON THE DRAWINGS). ALL CONTRACTORS SHALL VISIT THE SITE AND OBSERVE EXISTING CONDITIONS PRIOR TO BIDDING.
7. TO MINIMIZE DAMAGE TO EXISTING TREES NEAR THE INTERIOR EDGE OF CLEARING LIMITS, THE CONTRACTOR SHALL CUT 2-FT DEEP TRENCHES ALONG THE LIMITS OF DISTURBANCE, SO AS TO CUT, RATHER THAN TEAR ROOTS.
8. PRIOR TO DEMOLISHING EXISTING STRUCTURES, MAKE AN INSPECTION FOR ANY HAZARDOUS MATERIALS. CONTACT ARCHITECT IMMEDIATELY IF ANY HAZARDOUS MATERIALS ARE DISCOVERED. CAP AND REMOVE UTILITY SERVICES, FUEL TANKS AND SEPTIC SYSTEMS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
9. VERIFY ALL ILLUSTRATED UNDERGROUND ELEMENTS/UTILITIES. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS/UTILITIES. NOTIFY THE ARCHITECT IMMEDIATELY IF UNKNOWN ELEMENTS/UTILITIES ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
10. CONTACT UTILITY LOCATING SERVICE AT LEAST 48-HRS PRIOR TO EXCAVATION.
11. PROTECT ALL ADJACENT PROPERTIES, THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, REPAIR IMMEDIATELY AS DIRECTED BY THE ARCHITECT.
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL TOWN OF WENDELL AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
13. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISH GRADE.
14. DEMOLITION AND PATCHING OF PAVEMENT, SIDEWALK, CURB AND GUTTER AND OTHER EXISTING PAVED SURFACES IN ADDITION TO THAT INDICATED ON THIS PLAN SHALL BE PERFORMED AS REQUIRED TO CONSTRUCT AND INSTALL NEW UTILITIES. ALL SUCH DEMOLITION AND PATCHING SHALL BE INCLUDED IN THE BASE BID SCOPE OF WORK. SEE SHEET 7.4 FOR PAVEMENT REPAIR DETAILS.
15. THIS SITE IS NOT LOCATED WITHIN SPECIAL FLOOD HAZARD AREAS AS DETERMINED BY FEMA AND DEPICTED ON F.I.R.M. MAP 3720176300J DATED 05/02/2006 AS BEING WITHIN ZONE "X-OTHER AREA".
16. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

(A) SAWCUT AND REMOVE EXISTING CURB AND GUTTER.

(B) CLEAR AND GRUB, STRIP TOPSOIL WITHIN CONSTRUCTION LIMITS.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Mackenzie Day
Administrator

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT FIRE RESCUE

WENDELL FALLS

PUBLIC SAFETY CENTER

WENDELL, NC

EXISTING COND. & DEMO PLAN

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:
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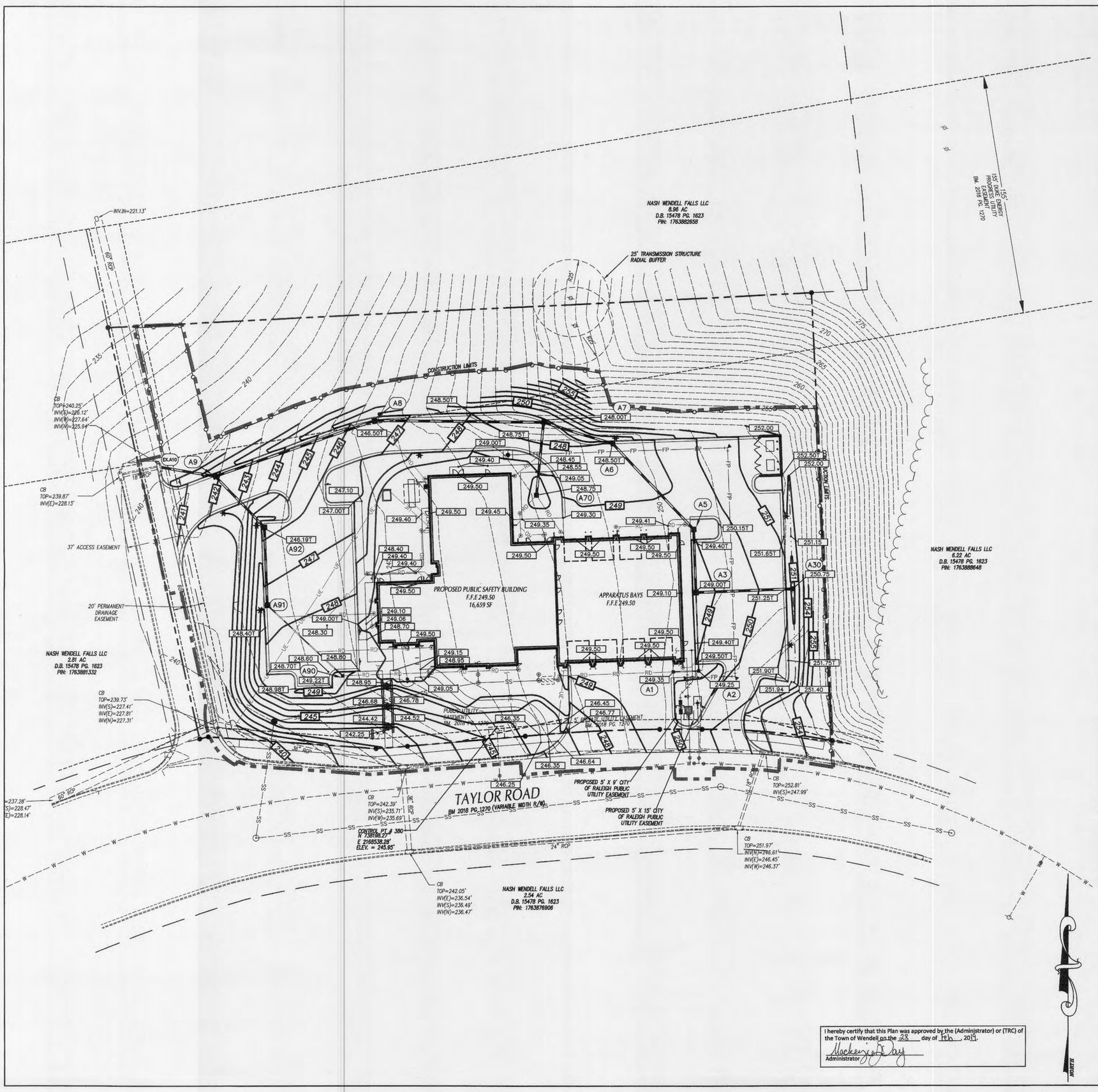
SEAL

C200

SHEET NUMBER



GENERAL NOTES- GRADING

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF WENDELL AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL SPOT ELEVATIONS INDICATED AT CURB AND GUTTER AND ARE DENOTED TO TOP OF CURB, UNLESS OTHERWISE SHOWN.
3. TOTAL DENUDED AREA = 2.5 AC
4. CONTRACTOR SHALL ADJUST ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISH GRADE.
5. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNERS INDEPENDENT TESTING LABORATORY. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)
6. ALL STORM DRAIN PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER STOPPAGE OF WORK EACH DAY. SEE DETAIL ON SHEET C702.
7. EXISTING VEGETATION WITHIN TREE PROTECTION AREAS SHALL REMAIN UNDISTURBED. UNLESS NOTED OTHERWISE.
8. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
9. THE GRADING CONTRACTOR SHALL COMPLY WITH ALL STATE CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF-SITE.
10. THE GRADING CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY STATE AUTHORITIES OR THE ARCHITECT.
11. THE GRADING CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL CLEARING AND GRADING WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
12. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
13. CONTRACTOR SHALL VERIFY ALL EXISTING ELEVATIONS WHERE NEW CONSTRUCTION JOIN OR CONNECT TO EXISTING PAVEMENT, CURB AND OTHER RIGID STRUCTURES. NOTIFY ARCHITECT IF DISCREPANCIES OCCUR.

GRADING LEGEND

- EXISTING CONTOURS
- FINAL CONTOURS
- 270.4' + — EXISTING SURVEY SPOT ELEVATION
- 270.50T — PROPOSED TOP OF CURB SPOT ELEVATION
- 270.50 — PROPOSED GROUND/PAVEMENT ELEVATION
- (A4) — STORM STRUCTURE NUMBER
- EXISTING STORM DRAIN PIPE
- PROPOSED STORM DRAIN PIPE
- FD — PROPOSED FOUNDATION DRAIN DISCHARGE LINE. SEE ARCH. PLANS FOR DRAIN PIPE LOCATIONS ALONG BUILDING WALLS.
- RD — PROPOSED ROOF DRAIN
- TREE PROTECTION FENCE

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO. UP STRM	DN STRM	PIPE SLOPE	PIPE DIA. (IN)	PIPE LENGTH (LF)	PIPE MATRL	UPPER INV. (FT)	LOWER INV. (FT)	UPSTREAM STRUCTURE DATA TOP ELEV. (FT) (1)	DEPTH (FT)	TYPE	NOTES
A1	A2	1.18%	8	17	PVC	244.75	244.55	249.35	4.60	FD	
A2	A3	0.88%	8	51	PVC	244.45	244.00	249.25	4.80	ID	
A3	A5	1.25%	15	40	RCP	243.90	243.40	249.00	5.10	CB	
A5	A6	0.99%	15	76	RCP	243.30	242.55	249.15	5.85	DI	4
A6	A7	0.96%	15	47	RCP	242.45	242.00	248.50	6.05	CB	
A7	A8	1.00%	18	110	RCP	241.90	240.80	248.00	6.10	CB	
A8	A9	2.95%	18	110	RCP	240.70	237.45	247.40	6.70	CB	
A9	EX A10	2.22%	18	36	RCP	237.35	236.55	242.30	4.95	CB	
A30	A3	1.11%	15	63	RCP	246.15	245.45	250.75	4.60	DI	
A70	A7	1.04%	10	48	PVC	244.15	243.65	248.75	4.60	DI	
A90	A91	1.04%	8	67	PVC	242.50	241.80	249.50	7.00	ID	
A91	A92	1.00%	15	50	RCP	240.30	239.80	247.90	7.60	CB	
A92	A9	1.09%	15	46	RCP	238.30	237.80	246.19	7.89	CB	

LEGEND	NOTES
CB CATCH BASIN DI DROP INLET FES FLARED END SECTION (CONC.) FD FLOOR DRAIN ID INLINE DRAIN RCP REINFORCED CONC. PIPE (CL. III) EX EXISTING (A2) STRUCTURE NUMBER	1. TOP ELEVATION IS TOP OF CURB FOR CATCH BASINS, TOP OF RIM FOR MANHOLES, TOP OF GRATE FOR DROP INLETS, AND FINISH GRADE FOR CLEANOUTS. 2. ALL FES INLETS & OUTLETS SHALL BE RCP. 3. ALL PIPE LENGTHS LISTED ARE HORIZONTAL LENGTHS BETWEEN CENTER OF GRATES, MANHOLES, OR TO THE END OF THE FES. 4. CONTRACTOR SHALL USE DOME GRATE INLET.

CONTRACTOR RESPONSIBILITY NOTES:

1. THE MAIN PROJECT BIDDING PACKAGE WILL INCLUDE LANDSCAPING AS AN ALLOWANCE. THE TOTAL PROJECT LANDSCAPE SHEETS HAVE BEEN INCLUDED FOR COORDINATION PURPOSES.
2. THE GENERAL CONTRACTOR TO INCLUDE ALL TEMPORARY SEEDING, NECESSARY GRADING, FINAL GRADING, TOPSOIL AMENDMENTS AND ADEQUATE TOPSOIL AS NEEDED FOR THE LANDSCAPE CONTRACTOR TO COMPLETE THE SCOPE OF LANDSCAPING WHEN AWARDED.
3. THE FOLLOWING SHEETS HAVE BEEN INCLUDED FOR REFERENCE ONLY: C600 AND C707.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FUTURE LANDSCAPE CONTRACTOR.
5. TOPSOIL SHALL BE ACCEPTED BY THE OWNER BEFORE THE LANDSCAPE CONTRACTOR BEGINS WORK. GENERAL CONTRACTOR SHALL CONTACT THE OWNER OR ARCHITECT FOR TOPSOIL INSPECTION.
6. ALL CONTRACTORS SHALL REFER TO THE EROSION CONTROL CONSTRUCTION SEQUENCE (THIS SHEET) AND ADDITIONAL INFORMATION ON SHEETS C400.

REGIONAL STORMWATER FACILITY

THIS SITE DRAINS TO REGIONAL BMP #20, WHICH CAN BE FOUND IN THE "WENDELL FALLS TAYLOR ROAD STORMWATER – BMP #20 PLANS & DETAILS" PLAN SET BY MCKIM & CREED IN THE PROJECT STORMWATER NARRATIVE PACKAGE. REFER TO "TAYLOR ROAD IMPERVIOUS MAP" EXHIBIT.

ESTIMATED IMPERVIOUS COVER: 1.59–AC

PROPOSED IMPERVIOUS COVER: 1.27–AC

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Administrator

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 CHARY R. PIERCE II 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT FIRE RESCUE

WENDELL FALLS

PUBLIC SAFETY CENTER

WENDELL, NC

GRADING PLAN

DATE 12.20.2
PROJECT NO 16
CLH PROJECT NO 16-
REVISIONS

NO	DATE	DESCRIPTION:

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SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN
OTHER COMPANY OR AGENCY WITHOUT THE CONSENT O
ARCHITECTS, PA.

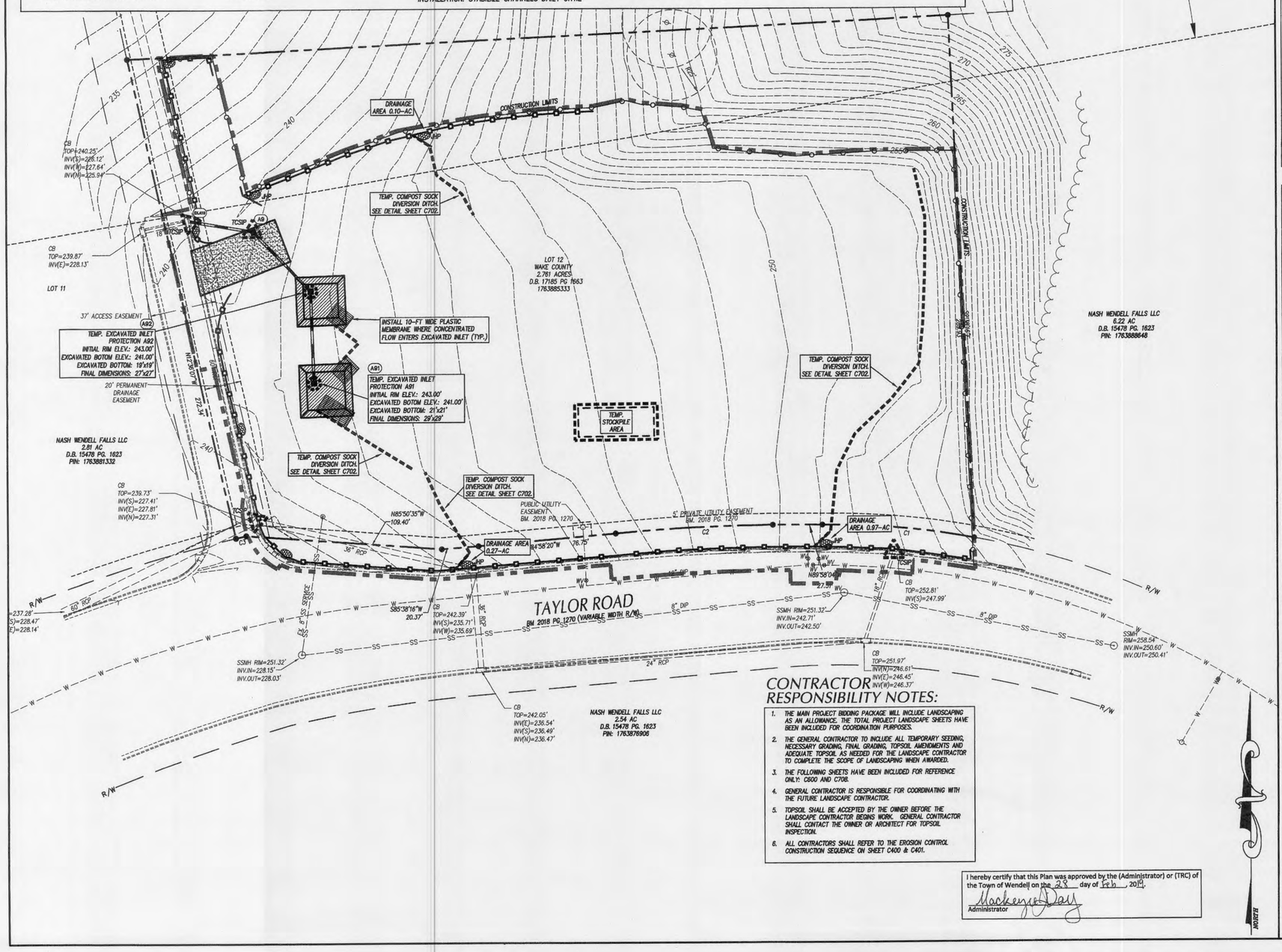
SEAL

C300

SHEET NUMBER

CONSTRUCTION SEQUENCE

1. INSTALL TREE PROTECTION FENCING.
2. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE.
3. CONTACT NC DEQ LQS RALEIGH OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
4. COORDINATE WITH NEWLAND COMMUNITIES, RESPONSIBLE PARTY FOR REGIONAL SQM/SEDIMENT BASIN, TO SCHEDULE PRE-CONSTRUCTION MEETING. CONTACT LEE BOWMAN, SENIOR PROJECT MANAGER AT 919-951-0712.
   - 4.1. NEWLAND COMMUNITIES SHALL MAINTAIN THE SEDIMENT BASIN UNTIL ALL CONSTRUCTION IN THE WENDELL FALLS - TAYLOR ROAD DEVELOPMENT IS FINISHED AND STABILIZED.
5. CONDUCT PRE-CONSTRUCTION CONFERENCE.
6. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&SC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED E&SC PLAN WITH APPROVAL CERTIFICATE/LETTER, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
7. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBANING ACTIVITIES.
8. INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, REINFORCED OUTLET PROTECTION, REINFORCED J-HOOKS, TEMPORARY COMPOST SOCKS DIVERSION DITCHES, AND TEMPORARY INLET PROTECTION DEVICES ON EXISTING INLETS.
9. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES AND TEMPORARY STOCKPILES.
10. INSTALL STORM PIPES EX.A10-A9, A9-A92, AND A92-A91. INSTALL TEMPORARY INLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
    - 10.1. INSTALL TEMPORARY EXCAVATED INLET PROTECTION ON INLETS A91 & A92 AS THEY ARE INSTALLED.
    - 10.2. INSTALL TEMPORARY COMPOST SOCK DIVERSION DITCHES TO DIRECT STORMWATER TO EXCAVATED INLETS.
11. CALL FOR INSPECTION OF INSTALLED DEVICES.
12. PERFORM DEMOLITION AND CLEARING OPERATIONS.
13. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN CONSTRUCTION LIMITS. INSTALL AND MAINTAIN ALL SILT FENCE/TEMPORARY COMPOST SOCK AROUND TEMPORARY STOCKPILES. ANY STOCKPILE MUST BE STABILIZED IF INACTIVE FOR MORE THAN SEVEN (7) CALENDAR DAYS.
14. BEGIN ROUGH GRADING OPERATIONS.
15. ESTABLISH STAGING AREA IN LOCATION SHOWN ON PLAN.
16. AT THE END OF EACH DAY, INSTALL AND ADJUST DIVERSION DITCHES AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
17. INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
18. INSTALL CHANNELS AND SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. PERMANENT CHANNEL SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDED, MULCHED/LINED AND ANCHORED UPON INSTALLATION. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
19. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
20. VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT.
21. INSTALL TEMPORARY SILT FENCE AT TOP OF SHOULDER/BERM OF PAVEMENT SAG LOCATIONS.
22. INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUN-OFF INTO INLETS.
23. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
24. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
25. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS.



CONTRACTOR RESPONSIBILITY NOTES:

1. THE MAIN PROJECT BIDDING PACKAGE WILL INCLUDE LANDSCAPING AS AN ALLOWANCE. THE TOTAL PROJECT LANDSCAPE SHEETS HAVE BEEN INCLUDED FOR COORDINATION PURPOSES.
2. THE GENERAL CONTRACTOR TO INCLUDE ALL TEMPORARY SEEDING, NECESSARY GRADING, FINAL GRADING, TOPSOIL AMENDMENTS AND ADEQUATE TOPSOIL AS NEEDED FOR THE LANDSCAPE CONTRACTOR TO COMPLETE THE SCOPE OF LANDSCAPING WHEN AWARDED.
3. THE FOLLOWING SHEETS HAVE BEEN INCLUDED FOR REFERENCE ONLY: C600 AND C708.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FUTURE LANDSCAPE CONTRACTOR.
5. TOPSOIL SHALL BE ACCEPTED BY THE OWNER BEFORE THE LANDSCAPE CONTRACTOR BEGINS WORK. GENERAL CONTRACTOR SHALL CONTACT THE OWNER OR ARCHITECT FOR TOPSOIL INSPECTION.
6. ALL CONTRACTORS SHALL REFER TO THE EROSION CONTROL CONSTRUCTION SEQUENCE ON SHEET C400 & C401.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.
Mackenzie Darr
Administrator

SELF-INSPECTION RULES

1. SELF-INSPECTION SHALL BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDENR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ONSITE.
3. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0131. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM https://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms. IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT NCDENR OFFICE AT 919-791-4200.
4. CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGE ON SITE.
5. CONTRACTOR SHALL KEEP A COPY OF APPROVED EROSION & SEDIMENT CONTROL PLANS, APPROVAL LETTER, 401/404 DOCUMENTS FROM DWR/USACOE, NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS ON SITE UNTIL THE PROJECT IS CLOSED BY NCDENR OFFICE. CONTRACTOR SHALL SUPPLY A TEMPORARY WASH STATION IF AREAS ALONG PUBLIC STREETS AND EXISTING SCHOOL ARE NOT KEPT CLEAN. CONTRACTOR MUST KEEP AREAS IN PUBLIC USE CLEAN OF SEDIMENT.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO FOLLOWING SCHEDULE:

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES).

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B(2) (b))

THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.

INSTALL TEMPORARY EXCELSION MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

MAT SLOPES IN SUMMER AND WINTER - GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OPTIMUM GERMINATION SEASONS, WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF ... AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 2.5 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (ABOVE) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (ABOVE) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

LEGEND

- TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C701
- TEMP. INLET PROTECTION DEVICE SEE DETAIL SHEET C702
- TEMP. COMP. SOCK INLET PROTECTION SEE DETAIL SHEET C701
- TEMP. SILT FENCE SEE DETAIL SHEET C701
- TEMP. REINFORCED SILT FENCE OUTLET SEE DETAIL SHEET C701
- TEMP. J-HOOK PROTECTION SEE DETAIL SHEET C701
- TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C702
- TEMP. EXCAVATED INLET PROTECTION SEE DETAIL SHEET C702
- EXISTING CONTOUR
- FINISHED CONTOUR
- TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
- TEMP. COMPOST SOCK CHECK DAM SEE DETAIL SHEET C701
- CHANNEL LINING SEE DETAIL SHEET C702
- TEMPORARY PLASTIC LINING SEE DETAIL SHEET C702
- TREE PROTECTION FENCE SEE DETAIL SHEET C701
- TEMP. COMPOST SOCK FENCE SEE DETAIL SHEET C701
- PROPOSED STORM SEWER PIPES
- EXISTING STORM SEWER PIPES
- CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.

GROUND COVER LEGEND

- DRAINAGE CHANNELS, STREAM BANKS OR OTHER CRITICAL AREA, END OF DAY STABILIZATION.
- 7 DAY STABILIZATION TIME FRAME.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE
12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

EROSION CONTROL PLAN

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:

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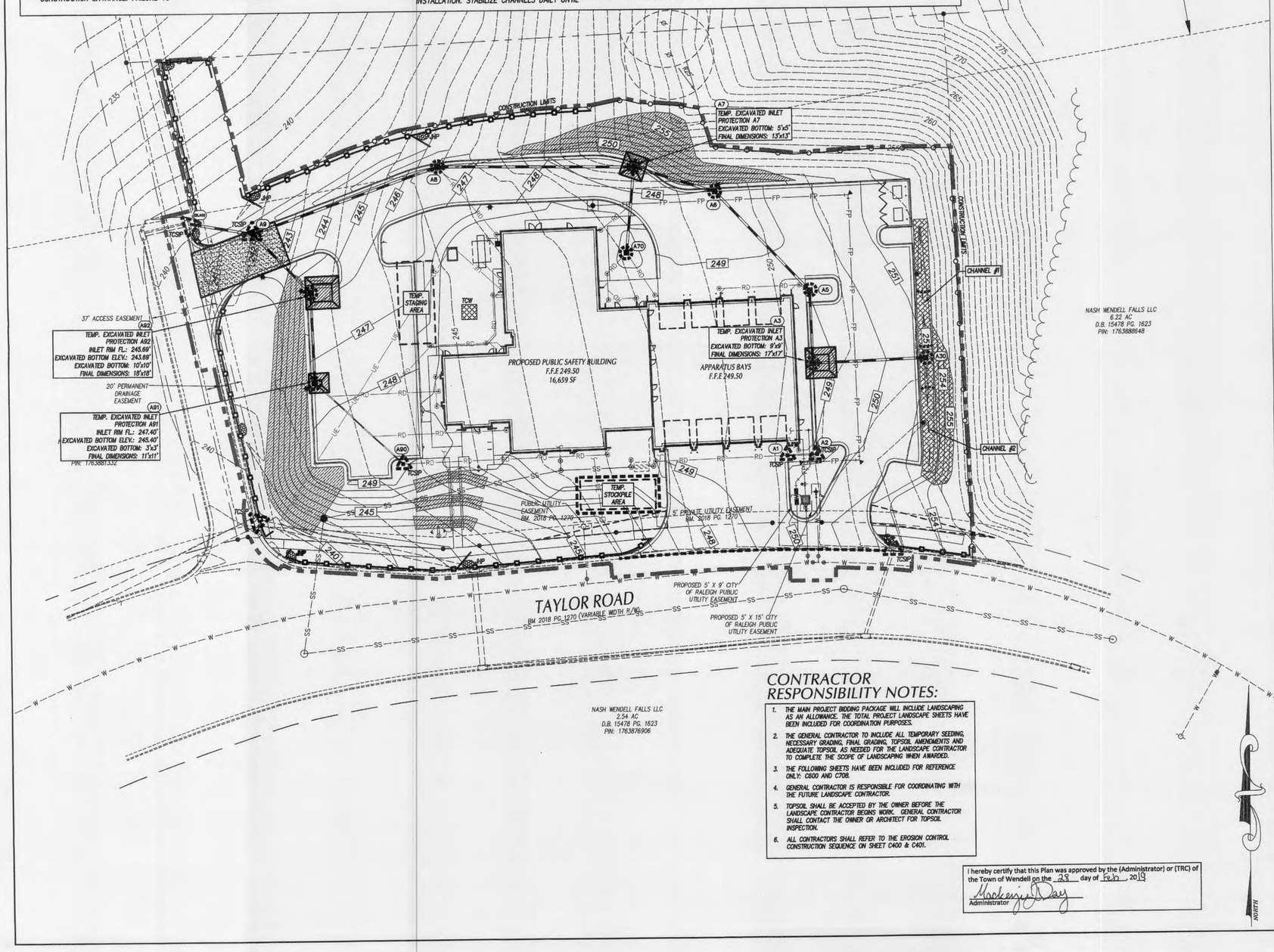
SEAL

C400

SHEET NUMBER

CONSTRUCTION SEQUENCE

1. INSTALL TREE PROTECTION FENCING.
2. OBTAIN APPROVED PLAN AND APPROVAL PLACARD. A COPY OF THE APPROVED PLAN MUST BE ON FILE AT THE JOB SITE.
3. CONTACT NC DEQ LQS RALEIGH OFFICE AT 919-791-4200 TO SCHEDULE PRE-CONSTRUCTION MEETING AT LEAST 72 HOURS PRIOR TO PROJECT ACTIVATION.
4. COORDINATE WITH NEWLAND COMMUNITIES, RESPONSIBLE PARTY FOR REGIONAL SCM/SEDIMENT BASIN, TO SCHEDULE PRE-CONSTRUCTION MEETING. CONTACT LEE BOWMAN, SENIOR PROJECT MANAGER AT 919-951-0712.
   - 4.1. NEWLAND COMMUNITIES SHALL MAINTAIN THE SEDIMENT BASIN UNTIL ALL CONSTRUCTION IN THE WENDELL FALLS - TAYLOR ROAD DEVELOPMENT IS FINISHED AND STABILIZED.
5. CONDUCT PRE-CONSTRUCTION CONFERENCE.
6. THE FOLLOWING MUST BE KEPT ON SITE UNTIL THE E&SC PLAN HAS BEEN CLOSED OUT BY LAND QUALITY: RAIN GAUGE, A COPY OF APPROVED E&SC PLAN WITH APPROVAL CERTIFICATE/LETTER, AND NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS OF SELF-INSPECTION RECORDS (SEE SELF-INSPECTION REQUIREMENTS BELOW). THESE ITEMS SHOULD BE LOCATED NEAR THE MAIN CONSTRUCTION ENTRANCE. FAILURE TO MAINTAIN THESE ON-SITE VIOLATES THE NPDES PERMIT.
7. CONTACT THE DEMLR RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING THE LAND-DISTURBANING ACTIVITIES.
8. INSTALL CONSTRUCTION ENTRANCES, PERIMETER SILT FENCES, REINFORCED OUTLET PROTECTION, REINFORCED J-HOOKS, TEMPORARY COMPOST SOCKS DIVERSION DITCHES, AND TEMPORARY INLET PROTECTION DEVICES ON EXISTING INLETS.
9. CLEAR AND GRUB AREAS ONLY AS REQUIRED FOR INSTALLATION OF INITIAL SEDIMENT CONTROL MEASURES AND TEMPORARY STOCKPILES.
10. INSTALL STORM PIPES EX.A10-A9, A9-A92, AND A92-A91. INSTALL TEMPORARY INLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
    - 10.1. INSTALL TEMPORARY EXCAVATED INLET PROTECTION ON INLETS A91 & A92 AS THEY ARE INSTALLED.
    - 10.2. INSTALL TEMPORARY COMPOST SOCK DIVERSION DITCHES TO DIRECT STORMWATER TO EXCAVATED INLETS.
11. CALL FOR INSPECTION OF INSTALLED DEVICES.
12. PERFORM DEMOLITION AND CLEARING OPERATIONS.
13. STRIP TOPSOIL, STOCKPILE TOPSOIL WITHIN CONSTRUCTION LIMITS. INSTALL AND MAINTAIN ALL SILT FENCE/TEMPORARY COMPOST SOCK AROUND TEMPORARY STOCKPILES. ANY STOCKPILE MUST BE STABILIZED IF INACTIVE FOR MORE THAN SEVEN (7) CALENDAR DAYS.
14. BEGIN ROUGH GRADING OPERATIONS.
15. ESTABLISH STAGING AREA IN LOCATION SHOWN ON PLAN.
16. AT THE END OF EACH DAY, INSTALL AND ADJUST DIVERSION DITCHES AT THE EDGE OF THE FILL SLOPES TO CONTINUE TO DIRECT RUN-OFF TO TEMPORARY BASINS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
17. INSTALL STORM DRAINAGE SYSTEM AS GRADING OPERATIONS PROGRESS. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED. PROTECT ALL OPEN STORM DRAIN LINES UNDER CONSTRUCTION WITH STONE FILTER AFTER STOPPAGE OF WORK EACH DAY.
18. INSTALL CHANNELS AND SLOPE PROTECTION BLANKETS AND TEMPORARILY SEED STEEP SLOPES AS THEY ARE ESTABLISHED AT FINISH GRADE. PERMANENT CHANNEL SHALL BE INSTALLED WITH TEMPORARY COMPOST SOCK CHECK DAMS. ALL CHANNELS SHALL BE SEEDED, MULCHED/LINED AND ANCHORED UPON INSTALLATION. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
19. RESPREAD TOPSOIL, INSTALL SLOPE PROTECTION BLANKETS AND VEGETATE STEEP SLOPES AS THE ARE ESTABLISHED. STABILIZE CHANNELS DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
20. VEGETATE (OR OTHERWISE STABILIZE WITH PAVEMENT, BUILDING PAD ETC.) IMMEDIATELY TO ALL DISTURBED AREAS AS SHOWN IN SLOPE AND STABILIZATION NOTES. MAINTAIN THROUGHOUT THE DURATION OF THE PROJECT.
21. INSTALL TEMPORARY SILT FENCE AT TOP OF SHOULDER/BERM OF PAVEMENT SAG LOCATIONS.
22. INSTALL SILT BAG INLET PROTECTION ONCE CURB & GUTTER IS INSTALLED. PROVIDE TEMPORARY SAND BAGS TO DIRECT RUN-OFF INTO INLETS.
23. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION.
24. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE TEMPORARY CONSTRUCTION ENTRANCES, CONTRACTOR STAGING AREA AND ANY REMAINING TEMPORARY MATERIAL STOCKPILES. SEED AND MULCH ALL DISTURBED AREAS. ALL DISTURBED AREAS ARE TO BE STABILIZED UNDER CONDITIONS OUTLINED IN THE CURRENT NPDES PERMIT.
25. CALL FOR INSPECTION OF STABILIZED SITE. IF APPROVED, REMOVE REMAINING TEMPORARY EROSION CONTROL MEASURES. SEED AND MULCH ANY REMAINING DISTURBED AREAS.



CONTRACTOR RESPONSIBILITY NOTES:

1. THE MAIN PROJECT BIDDING PACKAGE WILL INCLUDE LANDSCAPING AS AN ALLOWANCE. THE TOTAL PROJECT LANDSCAPE SHEETS HAVE BEEN INCLUDED FOR COORDINATION PURPOSES.
2. THE GENERAL CONTRACTOR TO INCLUDE ALL TEMPORARY SEEDING, NECESSARY GRADING, FINAL GRADING, TOPSOIL AMENDMENTS AND ADEQUATE TOPSOIL AS NEEDED FOR THE LANDSCAPE CONTRACTOR TO COMPLETE THE SCOPE OF LANDSCAPING WHEN AWARDED.
3. THE FOLLOWING SHEETS HAVE BEEN INCLUDED FOR REFERENCE ONLY: C600 AND C708.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FUTURE LANDSCAPE CONTRACTOR.
5. TOPSOIL SHALL BE ACCEPTED BY THE OWNER BEFORE THE LANDSCAPE CONTRACTOR BEGINS WORK. GENERAL CONTRACTOR SHALL CONTACT THE OWNER OR ARCHITECT FOR TOPSOIL INSPECTION.
6. ALL CONTRACTORS SHALL REFER TO THE EROSION CONTROL CONSTRUCTION SEQUENCE ON SHEET C400 & C401.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 23 day of Feb, 2019

Mackenzie Day
Administrator

SELF-INSPECTION RULES

1. SELF-INSPECTION SHALL BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
2. THE FINANCIALLY RESPONSIBLE PERSON AND/OR HIS AGENT WILL BE PERFORM SELF INSPECTIONS OF THE EROSION AND SEDIMENTATION CONTROL MEASURES USING NCDENR'S SELF INSPECTION REPORT (WORKSHEET) AND THIS WILL BE KEPT ONSITE.
3. NOTIFICATION OF LAND RESOURCES SEDIMENT AND EROSION CONTROL SELF-INSPECTION PROGRAM: THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS MUST BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED IN ACCORDANCE WITH NCGS 113A-54.1 AND 15A NCAC 4B.0133. THE SELF-INSPECTION REPORT FORM IS AVAILABLE AS AN EXCEL SPREADSHEET FROM http://deq.nc.gov/about/divisions/energy-mineral-land-resources/erosion-sediment-control/forms. IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT NCDENR OFFICE AT 919-791-4200.
4. CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGE ON SITE.
5. CONTRACTOR SHALL KEEP A COPY OF APPROVED EROSION & SEDIMENT CONTROL PLANS, APPROVAL LETTER, 401/404 DOCUMENTS FROM DWR/USACOE, NPDES PERMIT WITH A MINIMUM OF MOST RECENT 30 DAYS ON SITE UNTIL THE PROJECT IS CLOSED BY NCDENR OFFICE. CONTRACTOR SHALL SUPPLY A TEMPORARY WASH STATION IF AREAS ALONG PUBLIC STREETS AND EXISTING SCHOOL ARE NOT KEPT CLEAN. CONTRACTOR MUST KEEP AREAS IN PUBLIC USE CLEAN OF SEDIMENT.

SLOPE & SURFACE STABILIZATION

GROUND STABILIZATION SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO FOLLOWING SCHEDULE:

SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7-DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES).

EXTENSIONS OF TIME MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE-SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE (SECTION II.B(2) (b))

THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.

INSTALL TEMPORARY EXCELSIOR MATTING FOR STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER) AND AREAS OF CONCENTRATED FLOW (CHANNELS, DITCHES, SWALES, ETC.). UTILIZE TEMPORARY COCONUT MAT IN AREAS IDENTIFIED ON PLAN. REFER TO SPECIFICATION SECTION 312500 FOR MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.

MAT SLOPES IN SUMMER AND WINTER - GRADED SLOPES AND FILLS SHALL BE PROTECTED WITH A ROLLED EROSION CONTROL PRODUCT IF COMPLETED OUTSIDE OPTIMUM GERMINATION SEASONS, WHEN UNFAVORABLE WEATHER CONDITIONS PREVENT ESTABLISHMENT OF VEGETATIVE GROUND COVER.

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF _ AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES. CONTRACTOR SHALL PROVIDE WRITTEN DOCUMENTATION OF SEDIMENT & EROSION CONTROL PERMIT FOR ANY OFF-SITE SITES TO OWNER PRIOR TO RELOCATING ANY STOCKPILE MATERIALS.
3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ARCHITECT.
4. TOTAL DISTURBED AREA: 2.5 AC.
5. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY. SEE DETAIL SHEET C702.
6. ALL STORM DRAINAGE PIPES SHALL BE THOROUGHLY FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
7. THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE, FINE GRAINED MATERIAL SHALL BE STORED OUTSIDE OF THE LIMITS OF THE SITE PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
8. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES. STOCKPILES SHALL BE STABILIZED AS REQUIRED AS INDICATED IN THE SLOPE & SURFACE STABILIZATION NOTES ON THIS PLAN.
9. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO). THE FENCING SHALL BE REMOVED IMMEDIATELY PRIOR TO THE FINAL SITE INSPECTION FOR THE SITE.
10. TREE PROTECTION FENCING SHALL NOT BE MOVED AND THERE SHALL BE NO ENCROACHMENT INTO SUCH PROTECTED AREA(S) WITHOUT WRITTEN AUTHORIZATION OF THE COUNTY ZONING COMPLIANCE STAFF. ANY ACTIVITY (LANDSCAPING, FENCING, OR UTILITY INSTALLATION) SHOWN ON THE APPROVED PLANS IN A TREE PROTECTION AREA, SHALL ALSO NOT OCCUR WITHOUT WRITTEN AUTHORIZATION FROM THE COUNTY ZONING COMPLIANCE STAFF. ANY UNAUTHORIZED ENCROACHMENT OR DISTURBANCE WITHIN THE BOUNDARIES OF A TREE PROTECTION AREA SHALL AUTOMATICALLY RESULT IN FINES AND THE REPLACEMENT OF ANY DAMAGED VEGETATION IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
11. ROADSIDE DITCHES AND CHANNELS SHALL BE STABILIZED DAILY UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
12. INSTALL TEMPORARY MATTING TO TOP OF ALL SIDE SLOPES ON CHANNELS, DIVERSION DITCHES AND TEMPORARY SEDIMENT BASINS.
13. ANY DEWATERING OF SEDIMENT CONTAINMENT DEVICES FOR MAINTENANCE, REMOVAL OR CONVERSION PURPOSES IS TO BE DONE THROUGH A SILT BAG.
14. ANY DEWATERING OF STORM/UTILITY TRENCHES IS TO BE DONE THROUGH A SILT BAG.
15. GROUND COVER IS TO BE APPLIED PER CONDITIONS OF THE NPDES PERMIT OR AT THE END OF THE DAY IN CRITICAL AREAS.

MAINTENANCE PLAN

1. DURING ALL PHASES OF CONSTRUCTION, GROUNDCOVER ON EXPOSED SLOPES SHALL BE PROVIDED ACCORDING TO GROUND STABILIZATION TABLE (ABOVE) FOLLOWING COMPLETION OF ANY PHASE OF GRADING.
2. FINAL PERMANENT GROUNDCOVER FOR ALL DISTURBED AREAS SHALL BE PROVIDED ON ALL DISTURBED AREAS ACCORDING TO GROUND STABILIZATION TABLE (ABOVE) FOLLOWING COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
3. THE ABOVE REQUIREMENTS ARE THE MINIMUM NECESSARY TO MEET EROSION AND SEDIMENT CONTROL REGULATIONS. THE CONTRACT DOCUMENTS INCLUDE ADDITIONAL SEEDING AND STABILIZATION REQUIREMENTS AND SCHEDULES WHICH MAY EXCEED THOSE ABOVE.
4. SLOPE EROSION CONTROL MATTING SHALL BE INSTALLED FOR TEMPORARY STABILIZATION DURING THE ESTABLISHMENT OF VEGETATIVE COVER ON ALL STEEP SLOPES (6:1 OR STEEPER). REFER TO MATERIAL SPECIFICATIONS. INSTALL MATTING PER MANUFACTURER'S INSTRUCTIONS.
5. ALL OTHER SEEDED AREAS SHALL BE MULCHED WITH STRAW AND TACKED WITH ASPHALT.

LEGEND

- TEMP. GRAVEL CONSTR. ENTRANCE SEE DETAIL SHEET C701
- TEMP. INLET PROTECTION DEVICE SEE DETAIL SHEET C702
- TCSIP TEMP. COMP. SOCK INLET PROTECTION SEE DETAIL SHEET C701
- TEMP. SILT FENCE SEE DETAIL SHEET C701
- TEMP. REINFORCED SILT FENCE OUTLET SEE DETAIL SHEET C701
- JHP TEMP. J-HOOK PROTECTION SEE DETAIL SHEET C701
- TCW TEMP. CONCRETE WASHOUT AREA SEE DETAIL SHEET C702
- TEMP. EXCAVATED INLET PROTECTION SEE DETAIL SHEET C702
- EXISTING CONTOUR
- FINISHED CONTOUR
- TEMP. CONTOUR (TEMP. GRADES DURING CONSTR.)
- TEMP. COMPOST SOCK CHECK DAM SEE DETAIL SHEET C701
- CHANNEL LINING SEE DETAIL SHEET C702
- TEMPORARY PLASTIC LINING SEE DETAIL SHEET C702
- TREE PROTECTION FENCE SEE DETAIL SHEET C701
- TEMP. COMPOST SOCK FENCE SEE DETAIL SHEET C701
- PROPOSED STORM SEWER PIPES
- EXISTING STORM SEWER PIPES
- CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.

GROUND COVER LEGEND

- DRAINAGE CHANNELS, STREAM BANKS OR OTHER CRITICAL AREA, END OF DAY STABILIZATION.
- 7 DAY STABILIZATION TIME FRAME.

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 MARY R. PIERCE
12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

EROSION CONTROL PLAN

DATE	12.20.2018
PROJECT NO	16012
CLH PROJECT NO	16-125

REVISIONS

NO	DATE	DESCRIPTION:

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SEAL

C401

SHEET NUMBER

CITY OF RALEIGH STANDARD UTILITY NOTES

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).
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 OUTSIDE DIAMETER.
   - 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 DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
   - E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATERMAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 24" 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 & S-49).
   - F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. 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.
4. 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 ON ALL REUSE MAINS.
6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
7. 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 CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
8. INSTALL 4" PVC SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS SPACED EVERY 75 LINEAR FEET MAXIMUM.
9. 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 STEPHEN CALVERLEY AT (919) 996-2334 OR STEPHEN.CALVERLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
13. CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS 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 (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT. CONTACT JOANIE HARTLEY AT (919) 996-5923 OR JOANIE.HARTLEY@RALEIGHNC.GOV FOR MORE INFORMATION.
14. CONTRACTOR SHALL COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
15. ALL CONSTRUCTION TO COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
16. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL WATER, SEWER AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION. SEE SPECIFICATIONS FOR REQUIREMENTS.
17. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
18. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
19. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES.
20. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
21. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON PIPE WHEN COVER IS LESS THAN 24-IN.
22. ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON PIPE WHEN COVER IS LESS THAN 24-IN.
23. ALL FIRE HYDRANTS SHALL HAVE NATIONAL STANDARD THREADS AS REQUIRED BY THE CITY OF RALEIGH.
24. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.

UTILITY LEGEND

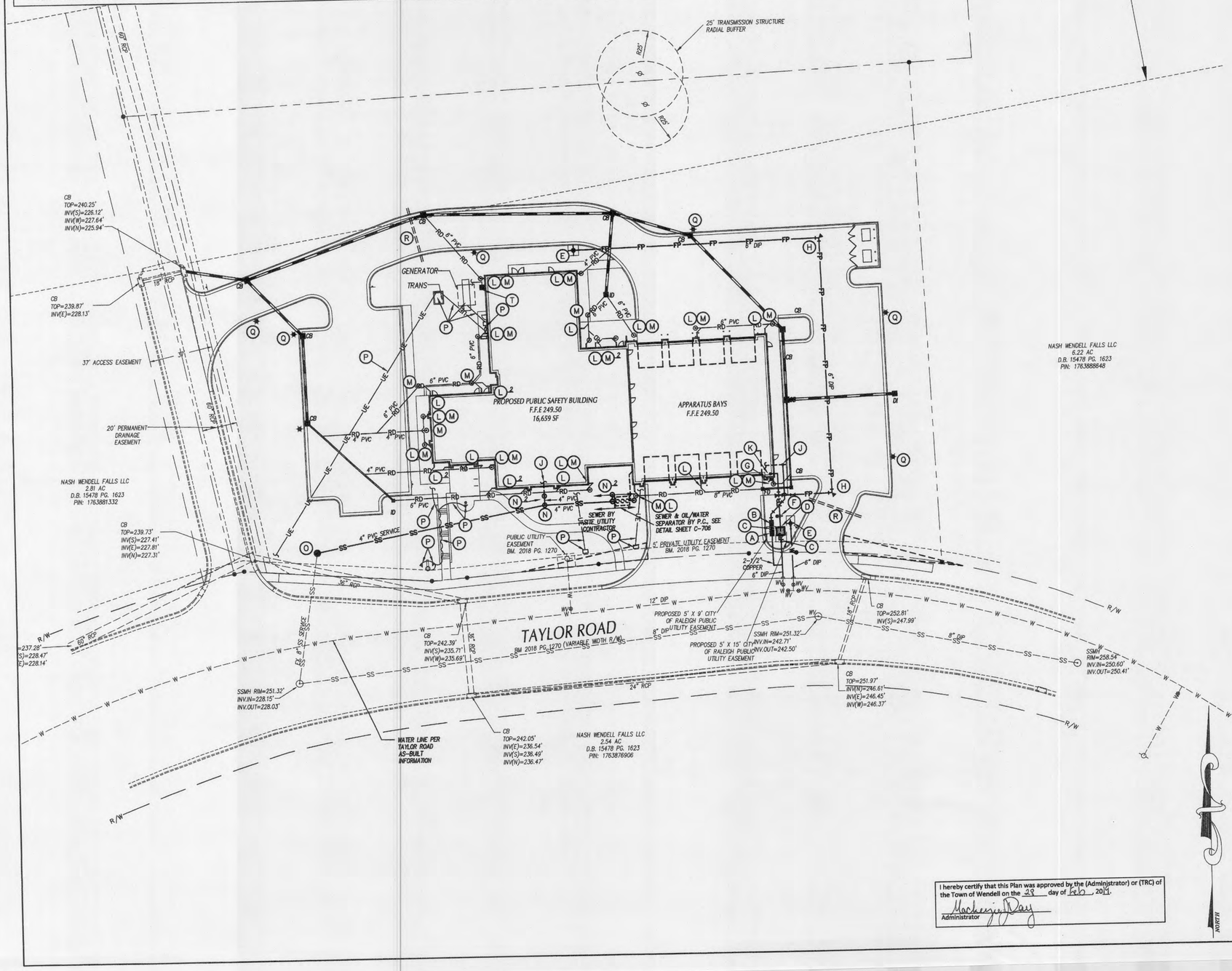
	EXISTING	PROPOSED
CHILLED WATER	-------CW-------	—CW—
ELECTRICAL (OVERHEAD)	------- E -------	—E—
ELECTRICAL (UNDERGROUND)	-------UE-------	—UE—
FOUNDATION DRAIN	-------FD-------	—FD—
GAS	------- G -------	—G—
SANITARY SEWER	-------SS-------	—SS—
TELEPHONE (OVERHEAD)	------- T -------	—T—
TELEPHONE (UNDERGROUND)	-------UT-------	—UT—
WATER	------- W -------	—W—
ROOF DRAIN	-------RD-------	—RD—
FIRE PROTECTION	-------FP-------	—FP—
STORM DRAIN	═══════	═══════
TREE PROTECTION FENCING, SEE EROSION CONTROL PLANS		
LIGHT POLE	LP	
UTILITY POLE	PP	
MANHOLE	MH	
CLEAN OUT	CO	
DROP INLET,CATCH BASIN	DI, CB	
FIRE HYDRANT	FH	
WATER VALVE	WV	
POST INDICATOR VALVE (PIV)		
FIRE DEPARTMENT CONNECTION (FDC)		
THRUST BLOCKING		
SANITARY SEWER STRUCTURE IDENTIFICATION		1

GENERAL NOTES-UTILITY

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL TOWN OF WENDELL, CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT AND NCDOT STANDARDS, SPECIFICATIONS AND DETAILS.
2. INSTALL WATERMAINS WITH A COVER OF NO LESS THAN 3-FT.
3. INSTALL SEWER MAINS WITH A COVER OF NO LESS THAN 3-FT TO FINISH GRADE IN NON-TRAFFIC AREAS, 4-FT TO FINISH GRADE IN TRAFFIC AREAS.
4. INSTALL ALL UTILITIES TO PROVIDE REQUIRED CLEARANCES AS INDICATED IN THE SPECIFICATIONS.
5. WATERLINES AND SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM HORIZONTAL CLEARANCE OF 10-FT.
6. SEWER MAINS SHALL BE INSTALLED WITH A MINIMUM VERTICAL CLEARANCE OF 24-IN TO STORM DRAINAGE PIPES.
7. COORDINATE AND SCHEDULE INSTALLATION OF ALL UTILITIES WITH OTHER PRIME CONTRACTORS, UTILITY COMPANIES AND OTHER TRADES INCLUDING BUT NOT LIMITED TO: NATURAL GAS, ELECTRICITY, TELEPHONE AND CATV.
8. VERIFY EXISTING CONDITIONS AND CONNECTIONS TO EXISTING UTILITIES PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT IF ANY DISCREPANCIES ARE DISCOVERED.
9. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
10. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE NCSBC AND OSHA REQUIREMENTS.
11. THE CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY AND STORM DRAINAGE IMPROVEMENTS FOLLOWING CONSTRUCTION.
12. CONTRACTOR SHALL PHASE DEMOLITION AND NEW CONSTRUCTION TO ENSURE UNINTERRUPTED ACCESS AND UTILITY SERVICE TO ADJACENT FACILITIES. COORDINATE SHORT-TERM, OFF-HOUR, TEMPORARY SHUT-DOWNS WITH THE OWNER.
13. SEE GENERAL NOTES ON EXISTING CONDITIONS AND DEMOLITION PLAN FOR REQUIREMENTS FOR REMOVAL AND PATCHING OF PAVEMENT FOR UTILITY INSTALLATION.
14. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
15. ALL SANITARY SEWER SERVICES SHALL BE 4" PVC (SCH 40) @1.04% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
16. ALL CONDENSATE LINES SHALL BE CONNECTED TO STORM DRAINAGE SYSTEM.
17. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCUREMENT OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.

KEY NOTES

- (A) 2" DOMESTIC WATER METER, SEE DETAIL SHEET C705 & C706.
- (B) WILKINS 375 2-IN REDUCED PRESSURE BACKFLOW ASSEMBLY (RPA). SEE SHEET C705.
- (C) GATE VALVE AND VALVE BOX, SEE DETAIL SHEET C705.
- (D) WILKINS 375ADA REDUCED PRESSURE ZONE DETECTOR ASSEMBLY (RPDA) WITHIN HEATED ENCLOSURE, SEE DETAIL SHEET C705. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
- (E) FIRE HYDRANT ASSEMBLY, SEE DETAIL SHEET C704.
- (F) POST INDICATOR VALVE W/ TAMPER SWITCH, SEE DETAIL SHEET C706 AND SPECS.
- (G) FIRE DEPARTMENT CONNECTION ON BUILDING, SEE FIRE PROTECTION PLANS.
- (H) THRUST BLOCKING, TYP, SEE DETAIL SHEET C704.
- (J) EXTEND UTILITY TO WITHIN 5'-0" OF BUILDING WALL OR AS INDICATED ON PLUMBING PLANS. REFER TO PLUMBING PLANS FOR LOCATION & INVERT.
- (K) EXTEND WATER MAIN TO 12-IN ABOVE FINISH FLOOR FOR FIRE PROTECTION/PLUMBING CONNECTION, SEE DETAIL SHEET C706. REFER TO TO FIRE PROTECTION/PLUMBING PLANS FOR EXACT LOCATION.
- (L) DOWN SPOUT CONNECTION.
- (M) ROOF DRAIN CLEANOUT, SEE DETAIL SHEET C707.
- (N) SANITARY SEWER CLEANOUT, TYP. SEE DETAIL SHEET C706.
- (O) PROPOSED SANITARY SEWER MANHOLE, TYP. SEE DETAIL SHEET C706.
- (P) UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, EQUIPMENT, UPLIGHTS ETC. SHOWN FOR COORDINATION PURPOSES, SEE ELECTRICAL PLANS.
- (Q) DUKE ENERGY LIGHT POLES, SEE DUKE ENERGY PLANS.
- (R) 2-CONDUITS, 24-INCH MINIMUM COVER, CAP 2'-0" OUTSIDE BACK OF CURB/EDGE OF PAVEMENT. CONTRACTOR SHALL COORDINATE SIZE, MATERIAL, AND FINAL LOCATIONS WITH UTILITY COMPANIES AND OTHER TRADES PER DUKE ENERGY'S STANDARDS AND GENERAL REQUIREMENTS.
- (S) TAPPING SLEEVE & VALVE, SEE SHEET C705.
- (T) GAS METER AND LINE, SEE MECHANICAL PLANS FOR ADDITIONAL INFORMATION.



I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 29 day of Feb, 2019.

Administrator

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA PROFESSIONAL SEAL 23953 ENGINEER KENNETH A. LORING
12/20/18

WAKE COUNTY NORTH CAROLINA

WENDELL FALLS PUBLIC SAFETY CENTER

WENDELL, NC

UTILITY PLAN

DATE	12.20.2018
PROJECT NO	16012
CLH PROJECT NO	16-125

REVISIONS

NO	DATE	DESCRIPTION:

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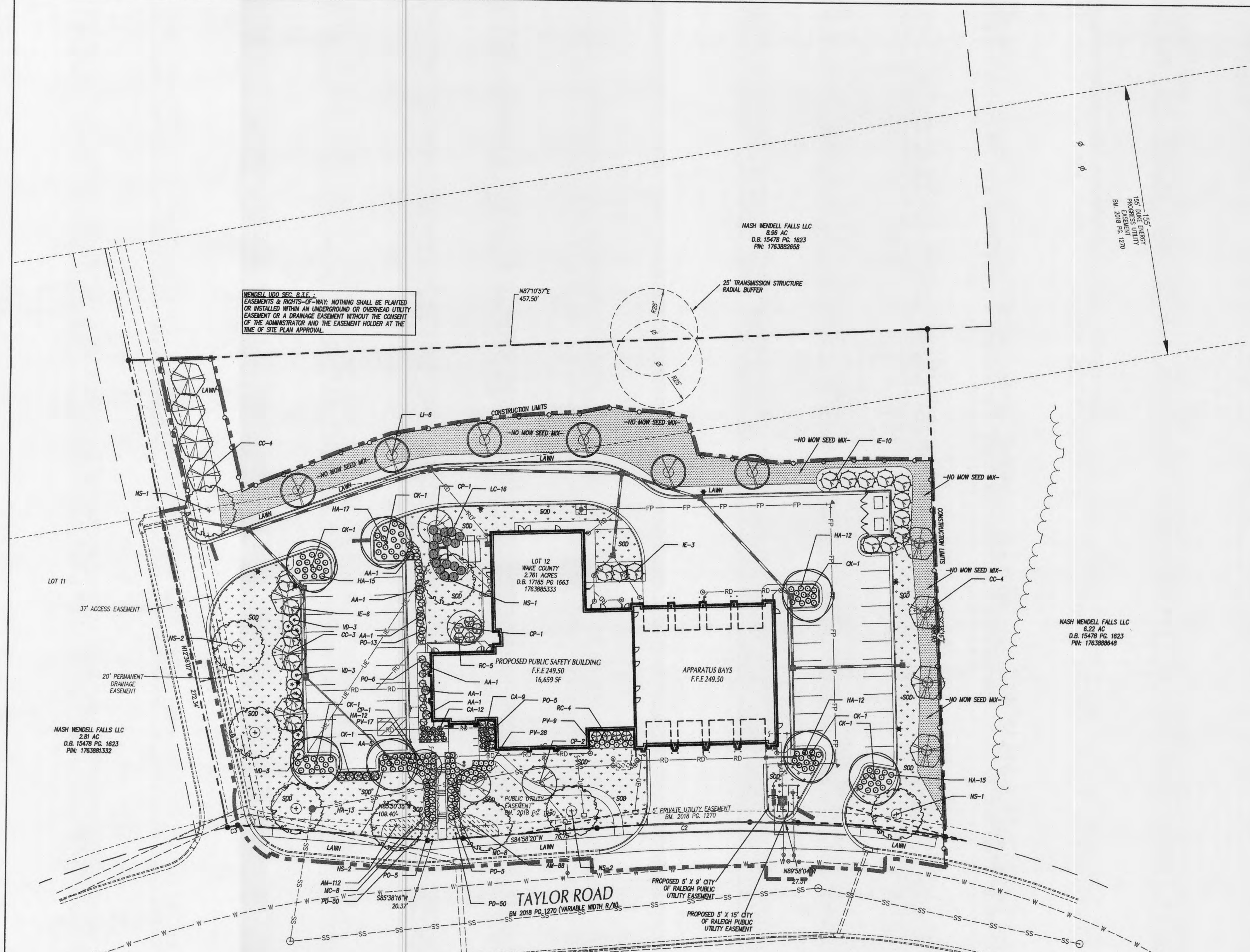
SEAL

C500

SHEET NUMBER



CONTRACTOR RESPONSIBILITY NOTES:

1. THE MAIN PROJECT BIDDING PACKAGE WILL INCLUDE LANDSCAPING AS AN ALLOWANCE. THE TOTAL PROJECT LANDSCAPE SHEETS HAVE BEEN INCLUDED FOR COORDINATION PURPOSES.
2. THE GENERAL CONTRACTOR TO INCLUDE ALL TEMPORARY SEEDING, NECESSARY GRADING, FINAL GRADING, TOPSOIL AMENDMENTS AND ADEQUATE TOPSOIL AS NEEDED FOR THE LANDSCAPE CONTRACTOR TO COMPLETE THE SCOPE OF LANDSCAPING WHEN AWARDED.
3. THE FOLLOWING SHEETS HAVE BEEN INCLUDED FOR REFERENCE ONLY: C600 AND C708.
4. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE FUTURE LANDSCAPE CONTRACTOR.
5. TOPSOIL SHALL BE ACCEPTED BY THE OWNER BEFORE THE LANDSCAPE CONTRACTOR BEGINS WORK. GENERAL CONTRACTOR SHALL CONTACT THE OWNER OR ARCHITECT FOR TOPSOIL INSPECTION.
6. ALL CONTRACTORS SHALL REFER TO THE EROSION CONTROL CONSTRUCTION SEQUENCE ON SHEET C300 AND ADDITIONAL INFORMATION ON SHEETS C 400.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Mackenzie Day
Administrator

GENERAL NOTES-LANDSCAPING

1. LOCATE ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PLANT MATERIAL. NOTIFY OWNER OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THOSE SHOWN ON THE PLAN.
2. VERIFICATION OF TOTAL QUANTITIES AS SHOWN ON THE PLANT LIST SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND THE TOTAL QUANTITIES SHALL BE AS SHOWN ON THE PLAN.
3. ALL PLANT MATERIAL SHALL CONFORM WITH THE STANDARDS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN AND THE WRITTEN SPECIFICATIONS.
4. ALL PLANT MATERIAL (SHRUBS/TREES) SHALL BE A MINIMUM DISTANCE OF 4 1/2 FEET FROM BACK OF CURB, EXCEPT ALONG ANY NEW WALLS ADJACENT TO PARKING WHERE CURB STOPS WILL BE USED. ALL PLANTING BEDS TO BE MULCHED WITH A MINIMUM OF 3" OF MULCH
5. ALL PLANT GROUPINGS SHALL BE MULCHED AS ONE BED. 3" OF DYED BROWN DOUBLE SHREDDED HARDWOOD MULCH SHALL BE USED AROUND ALL PLANTINGS WITH THE EXCEPTION OF BUFFER PLANTINGS.
6. APPLY PRE-EMERGENT HERBICIDE TO ALL NEW PLANTING BEDS AT MANUFACTURER'S RECOMMENDED RATE PRIOR TO INSTALLATION OF MULCH.
7. ESTABLISH POSITIVE DRAINAGE IN ALL PLANTING BEDS AND AWAY FROM BUILDINGS.
8. DO NOT INSTALL PLANT MATERIAL IN IMPERVIOUS SOILS, (i.e. HOLES WHICH , WHEN FILLED WITH WATER, DO NOT COMPLETELY DRAIN WITHIN TWO HOURS.) SEE SPECIFICATIONS FOR TOPSOIL REQUIREMENTS.
9. LAWN AREAS SHALL BE SEEDED WITH RIVIERA OR SUNSTAR BERMUDA GRASS 95% COVERAGE (BASED ON A PER SQUARE YARD SAMPLE) SHALL BE ATTAINED PRIOR TO FINAL INSPECTION. SEE DETAIL SHEET FOR RATES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
10. CONTACT THE LANDSCAPE ARCHITECT FOR INSPECTION 48 HOURS IN ADVANCE OF THE SCHEDULED SITE VISIT AND AT THE FOLLOWING INTERVALS:
    - 10.1. REVIEW OF GRADING PRIOR TO PLANT AND LAWN INSTALLATION
    - 10.2. REVIEW OF PLANT MATERIAL PRIOR TO INSTALLATION.
    - 10.3. ONE SUBSTANTIAL COMPLETION MEETING FOR PLANT INSTALLATION.
    - 10.4. ONE FINAL INSPECTION FOR ALL SEEDING/PLANTING OPERATIONS.
11. THE TREE PROTECTION FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
12. LANDSCAPE SUB-CONTRACTOR (UNDER GC CONTRACT) SHALL BE RESPONSIBLE FOR WATERING ALL PLANTS AND LAWN AREAS AT HIS COST FROM HIS OWN WATER SOURCE INCLUDING DURING PERIODS OF DROUGHT UNTIL THE PLANTS AND LAWN MEET FINAL COMPLETION. PLANT MATERIALS OR AREAS OF GRASS WHICH PERISH SHALL BE RE-ESTABLISHED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
13. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL EQUIPMENT & SUBCONTRACTORS AWAY FROM SEEDED AREAS. IF DAMAGE OCCURS, THROUGH NO FAULT OF THE OWNER, AREAS SHALL BE REGRADED AND RESEEDED IMMEDIATELY AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL WATER AND MAINTAIN THOSE AREAS UNTIL THEY ARE AT 95% COVERAGE AT FINAL COMPLETION.
14. SUBSTITUTIONS OF PLANT MATERIAL SHALL ONLY BE ACCEPTED 60 DAYS PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. SUBSTITUTION REQUESTS MUST BE IN WRITING AND WILL ONLY BE ACCEPTED FOR LACK OF AVAILABILITY REASONS WHICH CAN BE SUBSTANTIATED OR FOR SUPERIOR STOCK SUBSTITUTIONS.
15. LANDSCAPE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT TO REVIEW GRADING ONE WEEK PRIOR TO SEEDING, IF THE LANDSCAPE CONTRACTOR AND LANDSCAPE ARCHITECT FIND GRADING UNACCEPTABLE FOR FINAL SEEDING, LANDSCAPE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE GENERAL CONTRACTOR. LANDSCAPE CONTRACTOR SHALL NOT PROCEED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
16. IF CONFLICTS OCCUR BETWEEN WRITTEN SPECIFICATIONS AND THE DRAWINGS, THE WRITTEN SPECIFICATIONS SHALL PREVAIL.
17. GENERAL LAWN AREAS SHALL BE SEEDED WITH RIVIERA OR SUNSTAR BERMUDA. PLAYING FIELDS SHALL BE SODDED WITH TIFWAY-419 BERMUDA. SEE PLANTING PLAN FOR LIMITS.
18. ALL 3:1 SLOPES SHALL BE STABILIZED WITH 'NO-MOW' NATURALIZED SEED MIX AND EROSION CONTROL MATTING.
19. ALL FOUNDATION SHRUBS AND TREES TO BE PLANTED A MINIMUM OF 5-FT FROM BUILDING WALL. NOTIFY LANDSCAPE ARCHITECT FOR ANY DISCREPANCIES.
20. INSTALL PERMANENT SEEDING ALONG ALL ROADSIDE DITCHES AND CHANNELS WITHIN CONSTRUCTION LIMITS OF PROJECT. SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

LANDSCAPE CALCULATIONS

STREET TREE REQUIREMENTS

MINIMUM STANDARD: 1 CANOPY TREE PER 50 LINEAR FEET

TAYLOR ROAD: 251.49' (EXCLUDING 118.49' OF DRIVEWAY)
REQUIRED: 5 CANOPY TREES
PROVIDED: 5 CANOPY TREES

UNNAMED WESTERN DRIVE: 248.34' (EXCLUDING 24' OF DRIVEWAY)
REQUIRED: 5 CANOPY TREES
PROVIDED: 3 CANOPY TREES, 4 UNDERSTORY TREES*

*4 UNDERSTORY TREES ARE SUBSTITUTED FOR 2 CANOPY TREES DUE TO POWERLINE RESTRICTIONS.

PARKING LOT REQUIREMENTS

REQUIREMENT:
- -1 CANOPY TREE PER 12 PARKING SPACES : 44 SPACES = 4 TREES
- -4 SHRUBS PER 12 PARKING SPACES : 42 SPACES = 14 SHRUBS
- -NO PARKING SPACE SHALL BE MORE THAN 60 FEET FROM THE BASE OF A CANOPY TREE
- -PERIMETER YARD OF ALL PARKING AREAS VISIBLE FROM THE STREET SHALL HAVE A SEMI-OPAQUE SCREEN FROM THE GROUND TO AT LEAST A HEIGHT OF 3.5 FEET.

PROVIDED:
7 CANOPY TREES
96 SHRUBS

PLANT LIST

KEY	QTY	PLANT NAME	MIN. SIZE	REMARKS	NATIVE
CANOPY TREES					
CK	7	YELLOWWOOD Cladrastis kentuckea	2.5" CAL. 10' HT MIN.	STRAIGHT TRUNK FULL TO GROUND	YES
NS	9	BLACK GUM Nyssa sylvatica 'Wildfire'	2.5" CAL. 10' HT MIN.	B&B, STRAIGHT TRUNK FULL TO GROUND	YES
UNDERSTORY TREES					
CC	11	PURPLE SMOKE TREE Cotinus coggygria	1.5" CAL. MIN. 8' HT MIN.	FULL CROWN MATCHED SPECIMENS	NO
CP	5	REDBUD 'PURPLE PANSY' Cercis canadensis 'Purple Pansy'	1.5" CAL. MIN. 8' HT MIN.	FULL CROWN MATCHED SPECIMENS	YES
IE	19	EMILY BRUNER HOLLY Ilex 'Emily Bruner'	1.5" CAL. MIN. 8' HT MIN.	FULL CROWN MATCHED SPECIMENS	YES
LI	6	CRAPE MYRTLE Lagerstroemia indica "Catawba"	1.5" CAL. MIN. 8' HT MIN.	FULL CROWN, 3 TRUNKS MATCHED SPECIMENS	YES
SHRUBS					
AA	11	RED CHOKEBERRY Aronia arbutifolia	24"-30" HT. MIN. 3 GAL CONT.	FULL PLANTS MATCHING. 5' O.C.	YES
CA	21	NEW JERSEY TEA Ceanothus americanus	18"-24" HT. MIN. 1 GAL CONT.	FULL PLANTS MATCHING. 3' O.C.	YES
PO	35	NINEBARK Physocarpus opulifolius 'Diabolo'	24"-30" HT. MIN. 3 GAL CONT.	FULL PLANTS MATCHING. 3' O.C.	YES
LC	16	CHINESE FRINGE FLOWER Loropetalum chinense 'Crimson Fire'	24"-30" HT. MIN. 3 GAL CONT.	FULL PLANTS MATCHING. 5' O.C.	NO
RC	9	MOUNTAIN ROSEBAY Rhododendron catawbiense	24"-30" HT. MIN. 3 GAL CONT.	FULL PLANTS MATCHING. 6' O.C.	YES
VD	9	ARROWWOOD VIBURNUM Viburnum dentatum	24"-30" HT. MIN. 3 GAL CONT.	FULL PLANTS MATCHING. 6' O.C.	YES
GROUNDCOVERS, PERENNIALS, AND ORNAMENTAL GRASSES					
AM	200	RED YARROW Achillea millefolium 'Paprika'	1 GAL CONT.	FULL PLANTS 18" SPACING O.C.	YES
HA	96	ALBURY PURPLE ST. JOHN'S WORT Hypericum Androsaemum	3 GAL CONT.	FULL PLANTS 3' SPACING O.C.	YES
MC	16	PINK MUHLY GRASS Muhlenbergia capillaris	3 GAL CONT.	FULL PLANTS 3' SPACING O.C.	YES
PD	100	BLUE PHLOX Phlox divaricata	1 GAL CONT.	FULL PLANTS 18" SPACING O.C.	YES
PV	54	PRARIE FIRE SWITCHGRASS Panicum virgatum 'Prairie fire'	3 GAL CONT.	FULL PLANTS 3' SPACING O.C.	YES

*GRAPHIC SYMBOLS SUPERCEDE WRITTEN QUANTITIES WHERE DISCREPANCIES OCCUR.

BERMUDA TIFWAY 419 SOD   UPLAND NO-MOW SEED MIX

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS

PUBLIC SAFETY CENTER

WENDELL, NC

LANDSCAPE PLAN

DATE	12.20.2018
PROJECT NO	16012
CLH PROJECT NO	16-125
REVISIONS	

NO DATE DESCRIPTION:

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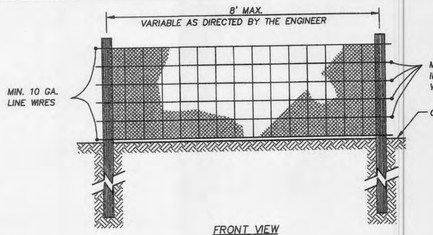
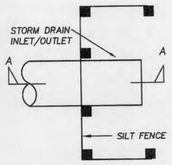
SEAL

C600

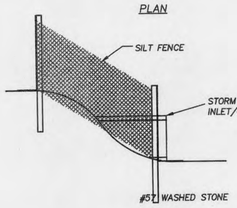
SHEET NUMBER



FRONT VIEW



PLAN



SIDE VIEW

SECTION A-A

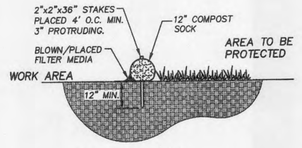
SILT FENCE AT PIPE INLET/OUTLET

INSTALLATION NOTE:
USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.

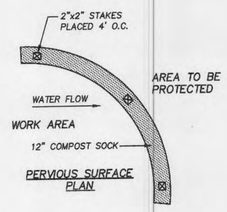
MAINTENANCE NOTES:

1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
3. REPAIR SILT FENCE FAILURES WITH NO. 57 WASHED STONE BERM.

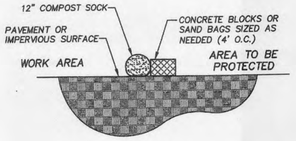
STANDARD TEMPORARY SILT FENCE N.T.S.



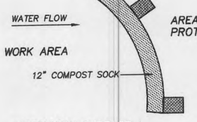
PERVIOUS SURFACE SECTION



PERVIOUS SURFACE PLAN



IMPERVIOUS SURFACE SECTION



IMPERVIOUS SURFACE PLAN

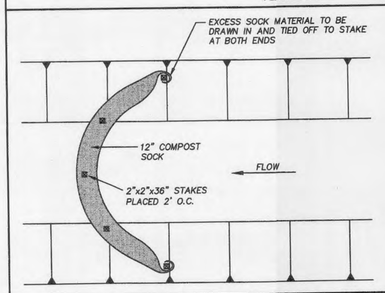
NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. COMPOST SOCKS SHALL BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER AFFECTED AREAS, PERPENDICULAR TO SHEET FLOW. COMPOST SOCKS ARE EFFECTIVE IN AREAS WHERE SEDIMENT ACCUMULATION OF LESS THAN SIX INCHES IS EXPECTED.
4. COMPOST SOCKS CAN BE APPLIED ON SLOPES UP TO A 2:1 GRADE WITH A MAXIMUM HEIGHT OF 10 FEET. COMPOST SOCK SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10 FEET IN HEIGHT.
5. 2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACES AT A MAXIMUM INTERVAL OF 4 FEET, OR A MAXIMUM INTERVAL OF 8 FEET IF THE SOCK IS PLACER IN A 4 INCH TRENCH. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
6. COMPOST SOCKS SHALL BE SLEEVED WHEN SECTIONS LONGER THAN 200-LF ARE REQUIRED. STAKES SHALL BE PLACED ON SLEEVED AREAS TO KEEP SECTIONS TOGETHER.
7. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
8. COMPOST SOCK SHOULD BE PLACED AT A 10 FOOT MINIMUM DISTANCE FROM THE TOE OF THE SLOPE TO ALLOW FOR A PROPER RUNOFF ACCUMULATION AND MAXIMUM SEDIMENT STORAGE. ON FLAT AREAS, COMPOST SOCK SHALL BE PLACED AT THE EDGE OF DISTURBED AREAS.
9. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK PERIMETER FENCE N.T.S.



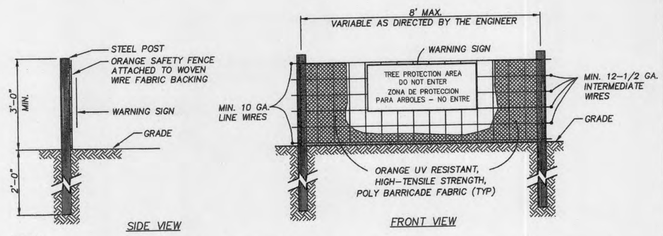
NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. COMPOST SOCK MAY BE USED AS CHECK DAMS IN DITCHES NOT EXCEEDING 3 FEET IN DEPTH.
4. PRIOR TO SOCK INSTALLATION, CLEAR ALL OBSTRUCTIONS INCLUDING ROCKS, CLODS, AND OTHER DEBRIS GREATER THAN ONE INCH THAT MAY INTERFERE WITH PROPER FUNCTION.
5. 2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACED AT A MAXIMUM INTERVAL OF 2 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
6. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.
7. CHECK DAM SHOULD BE USED IN AREAS THAT DRAIN 10 ACRES OR LESS.
8. CHECK DAM CAN BE DIRECT SEEDED AT THE TIME OF INSTALLATION.

MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK CHECK DAM N.T.S.

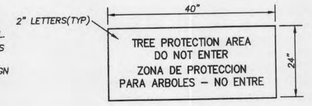


SIDE VIEW

FRONT VIEW

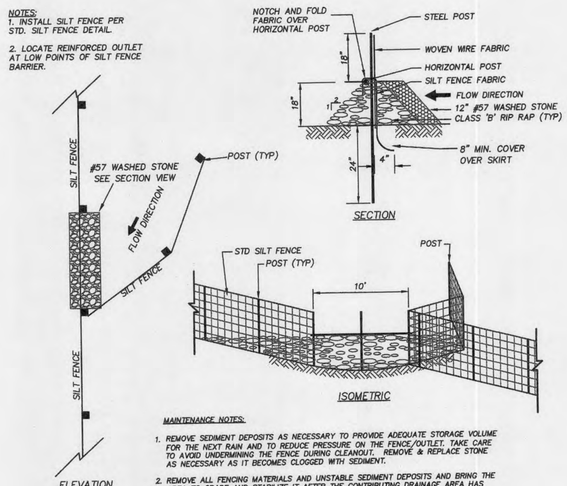
NOTES:

1. INSTALL TREE PROTECTION FENCING PRIOR TO PERFORMING ANY CLEARING OF THE SITE.
2. WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL.
3. LETTERS TO BE 3" HIGH MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
4. SIGNS SHALL BE PLACED AT 100' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 100' ON CENTER THEREAFTER.
5. FOR TREE PROTECTION AREAS LESS THAN 200' IN PERIMETER, PROVIDE NO LESS THAN ONE SIGN PER PROTECTION AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. MAINTAIN TREE PROTECTION FENCE THROUGHOUT DURATION OF PROJECT.



WARNING SIGN DETAIL

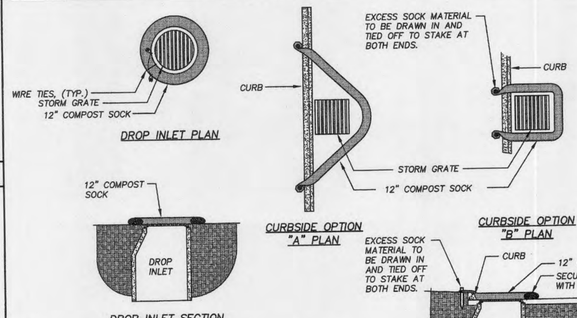
TEMPORARY TREE PROTECTION FENCE N.T.S.



MAINTENANCE NOTES:

1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

TEMPORARY REINFORCED SILT FENCE J-HOOK INSTALLATION N.T.S.



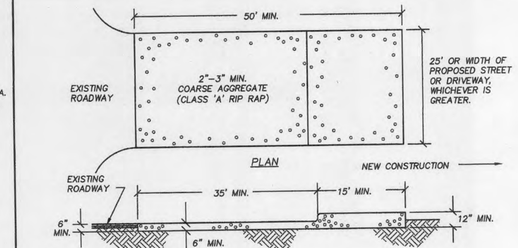
NOTES:

1. MATERIALS TO BE FILTREXX OR APPROVED EQUAL.
2. ALL MATERIAL AND INSTALLATION TO MEET STATE AND LOCAL SPECIFICATIONS.
3. 2"X2" OAK OR OTHER DURABLE HARDWOOD STAKES SHALL BE USED. STAKES SHALL BE PLACES AT A MAXIMUM INTERVAL OF 4 FEET. STAKES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 12 INCHES, WITH A MINIMUM OF 3 INCHES PROTRUDING ABOVE THE COMPOST SOCKS.
4. IN THE EVENT STAKING IS NOT POSSIBLE (I.E., WHEN SOCKS ARE USED ON PAVEMENT) HEAVY CONCRETE BLOCKS OR SAND BAGS SHALL BE USED BEHIND THE SOCK TO HOLD IT IN PLACE DURING RUNOFF EVENTS.
5. THE ENDS OF THE SOCKS SHOULD BE TURNED SLIGHTLY UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND THE END OF THE SOCKS.

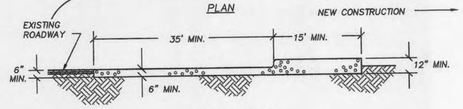
MAINTENANCE NOTES:

1. INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
2. SEDIMENT SHOULD BE REMOVED FROM BEHIND CHECK DAM ONCE THE ACCUMULATED HEIGHT HAS REACHED ½ THE HEIGHT OF THE CHECK DAM.
3. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
4. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
5. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
6. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY COMPOST SOCK INLET PROTECTION N.T.S.



PLAN



CROSS SECTION

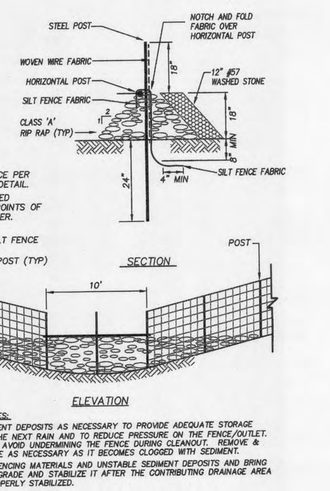
CONSTRUCTION NOTES:

1. ENTRANCE(S) SHALL BE LOCATED TO PROVIDE MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
2. TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS SHALL TO BE PROVIDED.
3. ENTRANCES MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY. CONTRACTOR SHALL MAINTAIN AS NECESSARY.
4. ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.
5. FREQUENT CHECKS OF THE ENTRANCE(S) AND TIMELY MAINTENANCE SHALL BE PROVIDED.
6. NOTES ARE APPLICABLE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED.

MAINTENANCE NOTES:

1. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVEENT MUD OR SEDIMENT FROM LEAVING THE SITE. MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE.
2. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLE ROADWAYS..

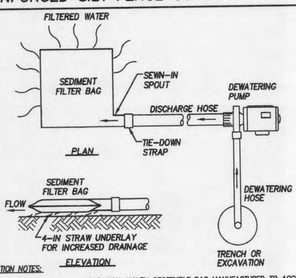
GRAVEL CONSTRUCTION ENTRANCE N.T.S.



MAINTENANCE NOTES:

1. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE/OUTLET. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE & REPLACE STONE AS NECESSARY AS IT BECOMES CLOGGED WITH SEDIMENT.
2. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

REINFORCED SILT FENCE OUTLET N.T.S.



CONSTRUCTION NOTES:

1. SILT BAG SHALL BE A PERMEABLE, NON-WOVEN GEOTEXTILE BAG MANUFACTURED TO ACCEPT AND FILTER PUMPED, SEDIMENT-LADEN WATER FROM DEWATERING ACTIVITIES.
2. SILT BAG SHALL BE SIZED AS APPROPRIATE FOR THE DEWATERING PUMP DISCHARGE RATE AND SHALL BE FITTED WITH A FILL SPOUT LARGE ENOUGH TO ACCOMMODATE THE DISCHARGE PIPING OF THE DEWATERING PUMP.
3. INSTALL SILT BAG ON AN UNDISTURBED OR FULLY STABILIZED SLOPE SO INCOMING WATER FLOWS DOWNHILL THROUGH THE BAG WITHOUT CAUSING EROSION.
4. REMOVE AND REPLACE SILT BAG WHEN DEWCE NO LONGER DRAINS EFFICIENTLY DUE TO ACCUMULATED SEDIMENT IN BAG.
5. EMPTY BAG WITHIN DISTURBED LIMITS OF THE SITE PROTECTED BY OTHER SEDIMENT CONTROL MEASURES OR DISPOSE OF OFF-SITE AT AN APPROPRIATELY PERMITTED LOCATION.

DEWATERING SEDIMENT FILTER BAG N.T.S.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Administrator

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 MCHARY R. PIERCE 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT FIRE RESCUE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

SITE DETAILS

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:
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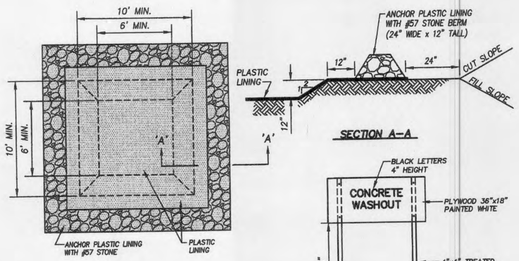
SEAL

C701

SHEET NUMBER



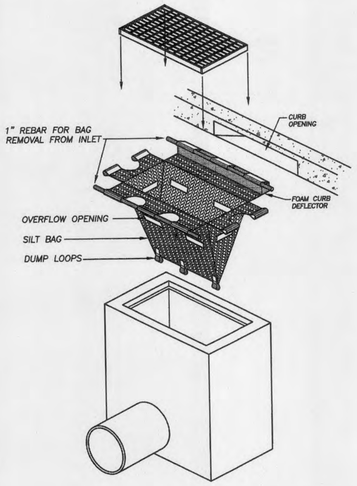
NOTES:

1. LOCATE WASH-OUT AREA IN LOCATIONS SHOWN ON CA.1 AND AT LEAST 50' FROM OPEN WATERS AND DRAINAGE INLETS.
2. LINE WASH OUT PIT WITH LINER OF 8-MIL LAMINATED PLASTIC GEOTEXTILE FABRIC (DURA-SKRIM 8BW OR APPROVED EQUAL).
3. PROPERLY DISPOSE OF DRIED CONCRETE AND RESTORE AREA TO FINAL GRADES AND SURFACES AT COMPLETION OF CONSTRUCTION.

MAINTENANCE NOTES:

1. INSPECT AREA REGULARLY AND MAKE REPAIRS PROMPTLY.
2. ENSURE CONCRETE IS BEING CAPTURED AND LINER REMAINS ANCHORED.
3. REMOVE DRIED CONCRETE AND RESTORE PIT BEFORE CAPACITY IS EXCEEDED.
4. REPLACE OR PATCH IMPERVIOUS LINER THAT BECOMES DAMAGED. RE-ANCHOR LINER AS NEEDED.

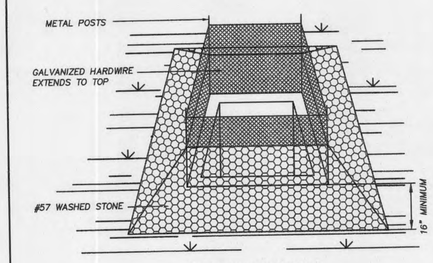
CONCRETE WASHOUT AREA N.T.S.



NOTES:

1. CONTRACTOR TO INSPECT SILT BAG EVERY TWO WEEKS OR AFTER EVERY SUBSTANTIAL RAIN EVENT.
2. CONTRACTOR TO REMOVE AND DISPOSE OF COLLECTED SILT AT AN ACCEPTABLE OFF SITE LOCATION.
3. COLLECTED SEDIMENT TO BE REMOVED ROUTINELY TO ENSURE FUNCTIONALITY OF SILT BAG.
4. DEVICE SHALL BE MANUFACTURED FROM WOVEN POLYPROPYLENE GEOTEXTILE TO FIT THE OPENING OF A CATCH BASIN OR DROP INLET TO FILTER SEDIMENT FROM RUNOFF ENTERING THE INLET. DEVICE SHALL BE PROVIDED WITH AN INTEGRAL CURB DEFLECTOR IF INSTALLED AT A CATCH BASIN WITH A VERTICAL OPENING ADJACENT TO A HORIZONTAL GRATE.
5. THE DEVICE SHALL BE A HIGH FLOW "SILTSACK" AS MANUFACTURED BY ACF ENVIRONMENTAL, INC. OR APPROVED EQUAL.
6. INSTALL DEVICE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND INSTALL A CURB DEFLECTOR IF APPROPRIATE.
7. INSPECT DEVICE AFTER EACH RAIN EVENT AND AT INTERVALS NOT EXCEEDING TWO WEEKS DURING CONSTRUCTION. REMOVE, EMPTY, CLEAN, AND REPLACE THE DEVICE AS NEEDED DURING CONSTRUCTION. EMPTY COLLECTED SEDIMENT IN APPROVED, PROTECTED LOCATION. REMOVE AND DISPOSE OF DEVICE FOLLOWING FULL AND PERMANENT STABILIZATION OF THE CONTRIBUTING DRAINAGE AREA.

SILT BAG INLET PROTECTION N.T.S.

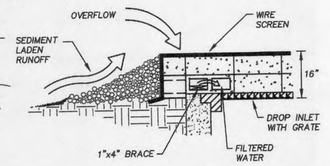


NOTES:

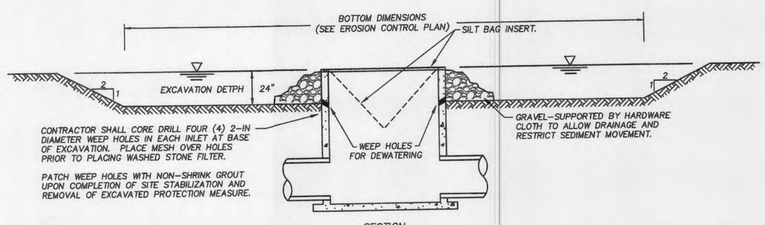
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERMITER OF THE INLET WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BLOCKS SHALL BE 12".
2. WIRE MESH OR HARDWARE CLOTH SHALL SUPPORTED BY HOGWIRE AND BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS, TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS.
3. #57 WASHED STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
4. PLACE 1"x4" BOARDS THROUGH THE HOLES OF CORNER BLOCKS.

MAINTENANCE NOTES:

1. INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL AND MAKE REPAIRS AS NEEDED.
2. REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.
3. REPLACE #57 WASHED STONE IF IT BECOMES CLOGGED WITH SEDIMENT AND DOES NOT DRAIN EFFICIENTLY.
4. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.



CATCH BASIN AND YARD INLET PROTECTION N.T.S.



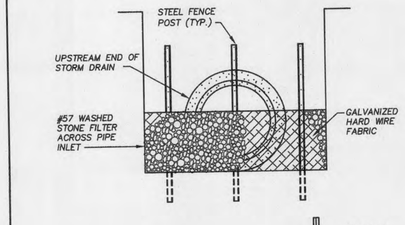
CONSTRUCTION NOTES:

1. PROVIDE WEEP HOLES IN SIDE OF INLET AT BOTTOM OF EXCAVATION FOR DEWATERING.
2. WIRE MESH OR HARDWARE CLOTH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE OF THE INLET, TO PREVENT STONE FROM BEING WASHED THROUGH THE WEEP HOLES.
3. #57 WASHED STONE SHALL BE PILED AGAINST THE WIRE.
4. MAINTAIN DEVICE AFTER EACH RAIN. REPLACE #57 WASHED STONE IF IT CLOGS WITH SEDIMENT.
5. CONTRACTOR TO PAINT CLEANOUT MARK ON STRUCTURE AT HALF CAPACITY ELEVATION. SILT IS TO BE REMOVED AND TRAP REPAIRED EACH TIME IT REACHES THIS MARK.
6. CLEAR THE AREA OF ALL DEBRIS THAT MIGHT HINDER EXCAVATION AND DISPOSAL OF SPOIL.
7. GRADE TEH APPROACH TO THE INLET UNIFORMLY.
8. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, SEAL WEEP HOLES, FILL THE BASIN WITH COMPACTED, DRY, SUITABLE SOIL TO FINAL GRADES AND APPLY FINAL SURFACING.

MAINTENANCE NOTES:

1. INSPECT, CLEAN, AND PROPERLY MAINTAIN THE EXCAVATED BASIN AFTER EVERY STORM UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
2. REMOVE SEDIMENT WHEN THE VOLUME OF THE BASIN HAS BEEN REDUCED BY ONE-HALF. DISPOSE OF REMOVED SEDIMENT PROPERLY AT AN OFFSITE LOCATION.
3. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA OR STOCKPILE AND STABILIZE IT APPROPRIATELY.
4. SHOULD MANUAL DEWATERING BECOME NECESSARY FOR MAINTENANCE OR FINAL REMOVAL, UTILIZE A MUD PUMP WITH FLOATING SUCTION INLET AND DISCHARGE FLOW ONLY THROUGH A PROPERLY INSTALLED SILT BAG. MONITOR PUMPING TO ENSURE FLOW CAPACITY OF SILT BAG IS NOT EXCEEDED.

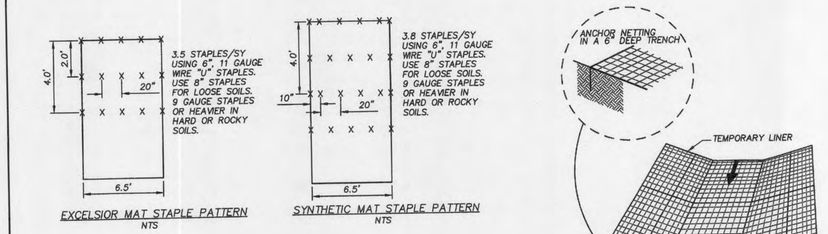
EXCAVATED INLET PROTECTION N.T.S.



NOTES:

1. ALL OPEN STORM DRAIN PIPES SHALL BE PROTECTED AFTER STOPPAGE OF WORK EACH DAY AS ILLUSTRATED.
2. ACCUMULATED SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF AND THE TRENCH BOTTOM REGRADED AND COMPACTED IN ACCORDANCE w/ SPECIFICATIONS PRIOR TO CONTINUANCE OF LAYING PIPE.

PROTECTION OF STORM DRAIN UNDER CONSTRUCTION

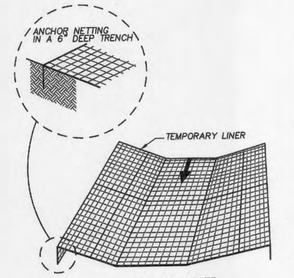


CONSTRUCTION NOTES:

1. SEE SPECIFICATIONS FOR TEMP. LINING, RIPRAP AND FILTER FABRIC REQUIREMENTS.
2. RIPRAP CHANNELS SHALL BE OVER-EXCAVATED RIPRAP TO BE PLACED FLUSH WITH PROPOSED CHANNEL GRADE.
3. PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
4. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
6. PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
7. FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
8. MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
9. THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

MAINTENANCE NOTES:

1. GRASSED-LINED CHANNELS TO BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL EVENT, DURING THE ESTABLISHMENT AND AFTER THE ESTABLISHMENT PERIOD.
2. REPAIRS ARE TO BE MADE IMMEDIATELY.
3. REMOVE SEDIMENT ACCUMULATIONS TO MAINTAIN DESIGNED CARRYING CAPACITY.
4. GRASS TO BE HEALTHY AND IN VIGOROUS CONDITIONS AT ALL TIMES.



CHANNEL SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RIPRAP DEPTH (IN)
1	2	3:1	2.53%	75LF	GRASS	EXCELSIOR	8	N/A
2	2	3:1	1.12%	60LF	GRASS	EXCELSIOR	8	N/A

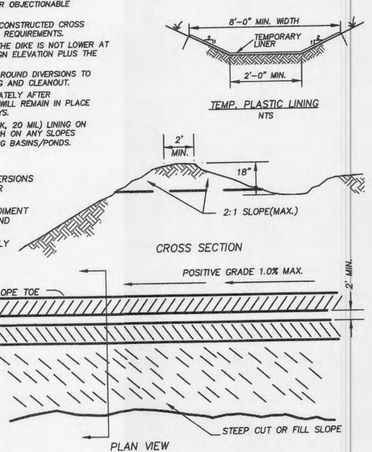
CHANNEL SECTIONS N.T.S.

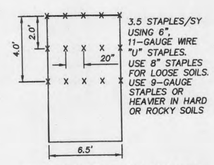
CONSTRUCTION SPECIFICATIONS:

1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIALS.
2. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3. ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4. PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.
5. VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.
6. APPLY SOLID PLASTIC (BLACK, 20 MIL) LINING ON SURFACE OF DIVERSION DITCH ON ANY SLOPES GREATER THAN 10% ENTERING BASINS/PONDS.

MAINTENANCE NOTES:

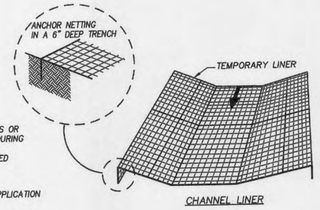
1. INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL.
2. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR DIVERSION DITCH.
3. INSPECT AND MAKE TIMELY REPAIRS AS NEEDED.





MATTING INSTALLATION NOTES:

1. INSTALL TEMPORARY CHANNEL MATTING IN ALL DIVERSION SWALES OR OTHER GRASSED AREAS OF CONCENTRATED STORMWATER FLOW DURING BOTH TEMPORARY AND PERMANENT GRASS ESTABLISHMENT. ALL TEMPORARY MATTING SHALL BE EXCELSIOR MATTING UNLESS NOTED OTHERWISE ON THE EROSION CONTROL PLAN.
2. SEE SPECIFICATIONS FOR TEMP. LINING REQUIREMENTS.
3. PREPARE SOIL BEFORE INSTALLING MATS OR NETS, INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED.
4. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE NET OR MAT IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
5. ROLL CENTER MAT OR NET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
6. PLACE MAT OR NET END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE.
7. FULL LENGTH EDGE OF MAT OR NET AT TOP SIDE SLOPES SHALL BE ANCHORED IN 6" DEEP TRENCH AFTER STAPLING.
8. MATS OR NETS SHALL BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED.
9. THE TERMINAL END OF THE MAT OR NET MUST BE ANCHORED IN A 6" DEEP TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



DIVERSION DITCH SCHEDULE

CHANNEL	BOTTOM WIDTH (FT)	SIDE SLOPE (H:V)	CHANNEL GRADE	CHANNEL LENGTH	PERM. LINING	TEMP. LINING	MIN. TOP WIDTH OF LINING (FT)	RIPRAP DEPTH (IN)
TDD1	2	2:1	2.15%	425LF	GRASS	EXCELSIOR	6	N/A

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Mackenzie Day
Administrator

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 1699 ZACHARY R. PIERCE 12-20-18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

SITE DETAILS

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:

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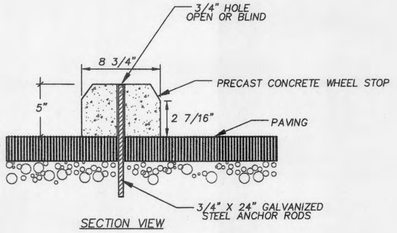
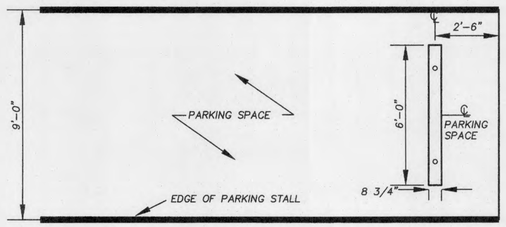
SEAL

C702

SHEET NUMBER

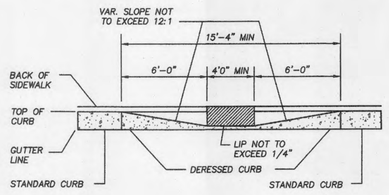


SECTION VIEW

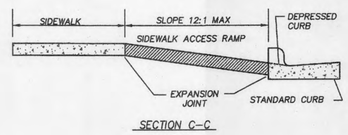


90° PARKING SPACE PLAN VIEW

PRE-CAST CONCRETE WHEELSTOP N.T.S.



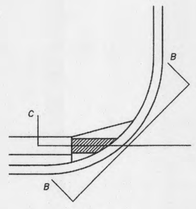
SECTION B-B



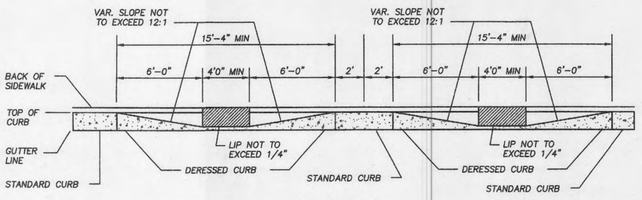
SECTION C-C

NOTES:

1. WALKING SURFACES SHALL BE SLIP RESISTANT. COLORS FOR THE RAMP SHALL BE DARK CHARCOAL GRAY FOR CONTRAST WITH LIGHT PATHWAY COLORS AND LIGHT CONCRETE GRAY FOR CONTRAST WITH DARK PATHWAY COLORS AND SHALL BE AN INTEGRAL PART OF THE CONSTRUCTION MATERIAL.
2. NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/1' (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
3. IN NO CASE SHALL THE WIDTH OF THE ACCESS RAMP BE LESS THAN 40" (3'-4") HOWEVER, RAMP WIDTH MAY EXCEED 40".
4. USE CLASS B (2,500-PSI) CONCRETE WITH SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH, NON-SKID TYPE SURFACE.
5. A 1/2" EXPANSION JOINT SHALL BE PLACED WHERE THE ACCESS RAMP JOINS THE CURB. REFER TO TYPICAL SIDEWALK DETAIL FOR JOINT REQUIREMENTS.

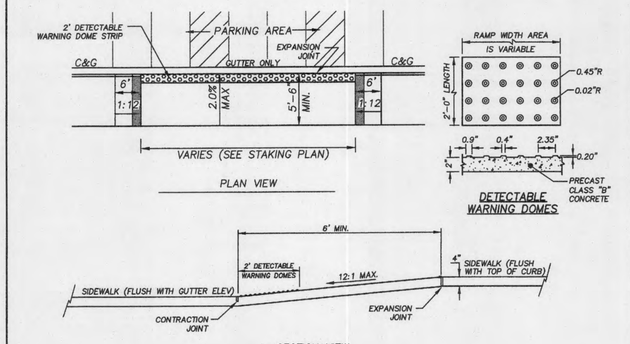


SINGLE RAMP



SECTION A-A

TYPICAL ACCESSIBLE CURB RAMP N.T.S.



PLAN VIEW

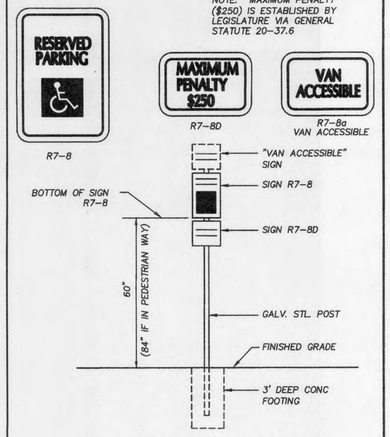
DETECTABLE WARNING DOMES

SECTION VIEW

NOTES:

1. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
2. REFER TO NCDOT STANDARD DETAIL 848005 FOR ADDITIONAL INFORMATION.
3. ALL CONCRETE SHALL BE 3,000 P.S.I. WITH FIBER REINFORCING.
4. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.

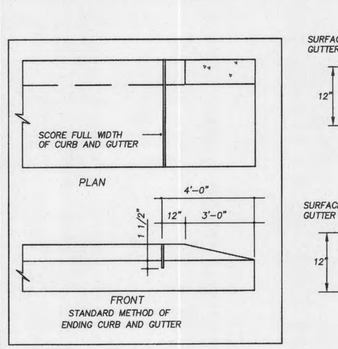
ACCESSIBLE PARKING CURB RAMPS N.T.S.

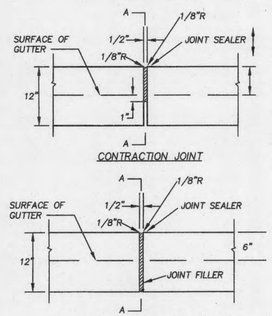


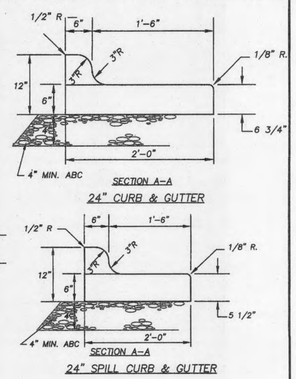
NOTE: MAXIMUM PENALTY ($250) IS ESTABLISHED BY LEGISLATURE VIA GENERAL STATUTE 20-37.6

ALL SIGNS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SPECIFICATIONS AND REQUIREMENTS

ACCESSIBLE PARKING SIGNAGE N.T.S.



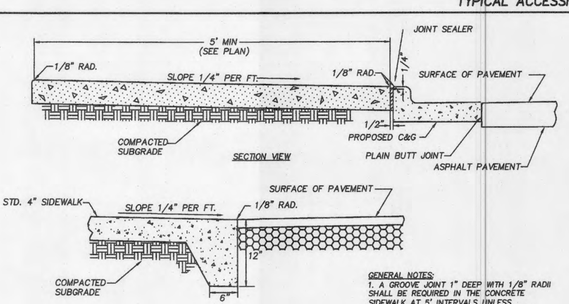




NOTES:

1. ALL CONCRETE SHALL BE 3,000 P.S.I.
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, SPACING MAY BE INCREASED TO 15' IF MACHINE IS USED.
3. CONTRACTION JOINTS SHALL BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' MAX INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.
5. ALL JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER.

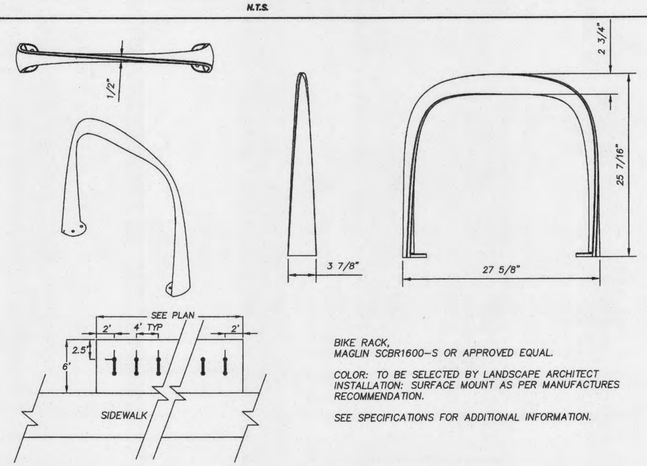
STANDARD CONCRETE CURB AND GUTTER N.T.S.



GENERAL NOTES:

1. A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE. SEE SPECS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
2. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS.
3. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
4. ALL CONCRETE SHALL BE 3,000 P.S.I. WITH FIBER REINFORCING.

CONCRETE SIDEWALK N.T.S.

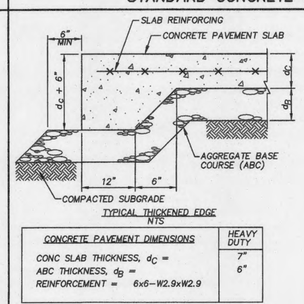


BIKE RACK,
MAGLIN SCBR1600-S OR APPROVED EQUAL.

COLOR: TO BE SELECTED BY LANDSCAPE ARCHITECT INSTALLATION: SURFACE MOUNT AS PER MANUFACTURES RECOMMENDATION.

SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

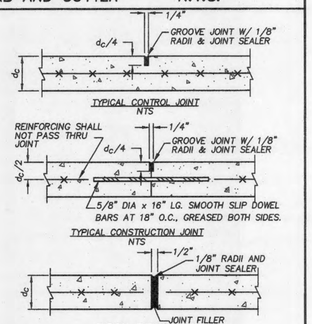
BIKE RACK N.T.S.



CONCRETE PAVEMENT DIMENSIONS	HEAVY DUTY
CONC SLAB THICKNESS, d_C =	7"
ABC THICKNESS, d_B =	6"
REINFORCEMENT =	6x6-W2.9xW2.9

NOTES:

1. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI (ASTM C39).
2. CONTRACTION JOINTS SHALL BE SPACED AT 15 FT O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.
3. EXPANSION JOINTS SHALL BE SPACED AT 50 FT O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.



CONCRETE PAVEMENT N.T.S.

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Mackenzie Day
Administrator

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environmentsforlife
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charlotte, north carolina 28217
t| 704 379 1919
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www.adwarchitects.com

NORTH CAROLINA
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ZACHARY R. PIERCE
12-20-18

WAKE COUNTY
NORTH CAROLINA

WENDELL HAZMAT FIRE RESCUE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

SITE DETAILS

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:

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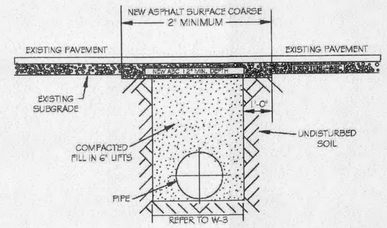
SEAL

C703

SHEET NUMBER

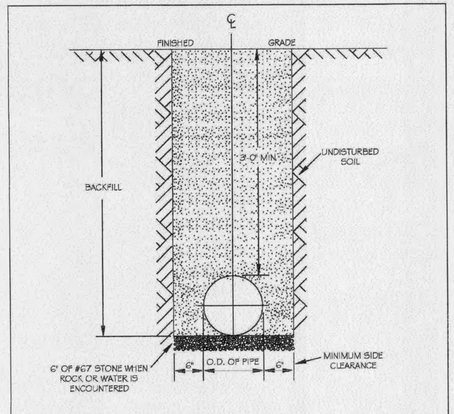


NOTES:

1. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAW CUT MACHINE.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
4. THE ENTIRE THICKNESS/ VERTICAL EDGE OF CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 2" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
7. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING, W-3, FOR ADDITIONAL DETAILS.
8. NO HAND PATCHING ALLOWED.
9. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD ASPHALT PAVEMENT PATCH DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-2	RRH	8-31-00	A.B.S.	4-12-04
	D.W.C.	11-1-99	J.P.S.	10-28-10

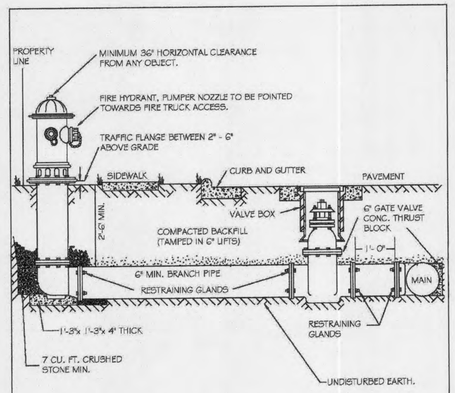


NOTES:

1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
5. ACHIEVE 95% COMPACTION IN BACKFILL.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RRH	3-31-00	J.P.S.	10-29-10



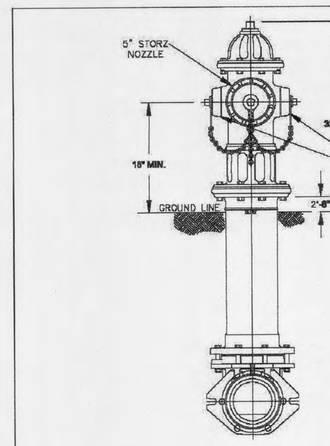
NOTES:

1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
3. 6" GATE VALVE SHALL BE AWWA C500-96 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE ⅜" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD FIRE HYDRANT INSTALLATION DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4	ABB	4-6-04	PAP	8/17/09
	DHL	2/14/08		

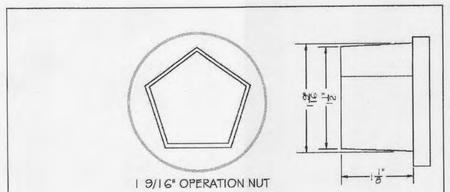


NOTES:

1. ALL PUBLIC FIRE HYDRANTS IN THE CITY OF RALEIGH AND THE MERGER TOWNS OF GARNER, ROLESVILLE, WAKE FOREST, KNIGHTDALE, WENDELL AND ZEBULON SHALL BE PAINTED CHROME YELLOW WITH HIGH REFLECTIVE ALUMINUM SILVER CAPS, BONNETS AND OPERATING NUTS.

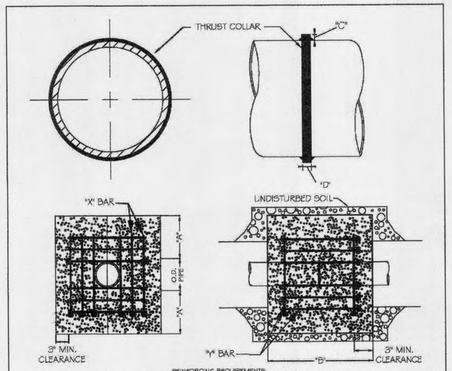
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
RALEIGH, GARNER, KNIGHTDALE, ROLESVILLE, WAKE FOREST, WENDELL & ZEBULON
STANDARD FIRE HYDRANT WITH 5" STORZ PUMPER NOZZLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-5	MAB	8-30-16		



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
HYDRANT OPERATING NUT AND 2 1/2" OUTLET THREADS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-6	RRH	3-31-00	DHL	2-18-08
	A.B.B.	4-13-04	J.P.S.	11-1-10



REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6" - 36"	#5	2'-2"+ O.D. PIPE	1.043 LBS/FT	1'-1"	1.1 LBS. EACH	X-24, Y-12
48" & greater	#6	3'-0"+ O.D. PIPE	1.502 LBS/FT	1'-3"	1.9 LBS. EACH	X-24, Y-12

THRUST COLLAR, AND THRUST SCHEDULE

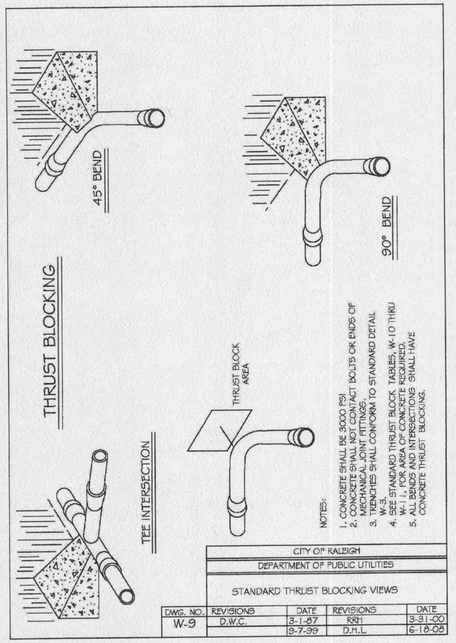
I.D. PIPE	"A"	"B"	"C"	"D"
6" - 16"	1'-4"	1'-7"	2"	3/8"
20" - 24"	1'-4"	1'-7"	3"	1/2"
30" - 36"	1'-4"	1'-7"	4"	5/8"
48" & greater	1'-8"	1'-9"	6"	7/8"

NOTES:

1. SEE STANDARD DETAIL W-9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON STANDARD DETAIL W-3.
5. BACKFILL TAMPED IN 6" LIFTS PER STANDARD DETAIL W-3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
THRUST BLOCKING DESIGN DATA FOR WATER MAINS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-7	RRH	2-21-00	J.P.S.	11-1-10
	D.M.L.	6-18-08		



NOTES:

1. CONCRETE SHALL BE 3000 PSI
2. MECHANICAL JOINT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS
3. TRENCHES SHALL CONFORM TO STANDARD DETAIL W-3
4. USE STANDARD THRUST BLOCK TABLES, W-10 THRU W-11, FOR AREA OF CONCRETE REQUIRED.
5. ALL BENDS AND INTERSECTIONS SHALL HAVE CONCRETE THRUST BLOCKING.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD THRUST BLOCKING VIEWS

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-9	D.W.C.	3-1-07	RRH	3-31-00
		9-7-99	D.M.L.	6-18-08

REACTION BEARING AREAS FOR HORIZONTAL WATER PIPE BENDS
BASED ON TEST PRESSURE OF 200 P.S.I.

ALL AREAS GIVEN IN SQUARE FEET.

SIZE AND DEGREE OF BEND	STATIC THRUST IN POUNDS	UNCONSOLIDATED DRY CLAY - 1000 LBS/FT²	SOFT CLAY - 2000 LBS/FT²	1000 LBS/FT² DRY COARSE SAND	2000 LBS/FT² ALWAYS DRY	SAND, COMPACT FIRM 3000 LBS/FT²	SAND, CLEAN DRY 4000 LBS/FT²	SOFT LOCK LBS/FT² QUICKSAND, VERY POOR	ROCK - POOR TO 10,000 LBS/FT²
6"									
11 1/4°	1,108	1	1	1	1	1	1	2	1
22 1/2°	2,207	1	2	2	1	1	1	3	1
45°	4,328	2	3	3	1	1	2	5	1
90°	7,996	2	4	5	1	1	2	8	1
PLUG	5,655	2	3	4	1	1	2	6	1
8"									
11 1/4°	1,970	1	1	2	1	1	1	2	1
22 1/2°	3,922	1	2	3	1	1	1	4	1
45°	7,694	2	4	5	1	1	2	8	1
90°	14,215	4	8	9	2	2	4	15	2
PLUG	10,053	3	5	6	2	2	3	10	1
12"									
11 1/4°	4,433	2	3	3	1	1	2	5	1
22 1/2°	8,826	3	5	6	2	2	3	9	1
45°	17,312	5	9	11	3	3	5	18	2
90°	31,983	8	16	19	4	4	8	32	4
PLUG	22,619	6	12	14	3	3	6	23	3
16"									
11 1/4°	7,881	2	4	5	1	1	2	8	1
22 1/2°	15,691	4	8	10	2	2	4	16	2
45°	30,779	8	16	19	4	4	8	31	4
90°	56,861	15	29	35	8	8	15	57	6
PLUG	40,213	10	21	25	5	5	10	41	5

REACTION BEARING AREAS ARE IN SQUARE FEET MEASURED IN A VERTICAL PLANE IN THE TRENCH SIDE AT AN ANGLE OF 90° TO THE THRUST VECTOR.

USE 6" - 90 BEND VALUE FOR HYDRANTS FOR ADDITIONAL SAFETY FACTOR.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
THRUST BLOCKING DESIGN QUANTITY TABLE

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-10	D.W.C.	6-23-99		

I hereby certify that this Plan was approved by the (Administrator) or (TRC) of the Town of Wendell on the 28 day of Feb, 2019.

Mackenzie Ray
Administrator

CITY OF RALEIGH STANDARD DETAIL N.T.S.

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charlotte, north carolina 28217
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NORTH CAROLINA PROFESSIONAL SEAL 23953 ENGINEER KENNETH A. LORING
12/20/18

WAKE COUNTY NORTH CAROLINA

WENDELL HAZMAT RESCUE FIRE

WENDELL FALLS
PUBLIC SAFETY CENTER

WENDELL, NC

SITE DETAILS

DATE 12.20.2018
PROJECT NO 16012
CLH PROJECT NO 16-125
REVISIONS

NO	DATE	DESCRIPTION:
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—
—	—	—

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SEAL

C704

SHEET NUMBER