

CITY OF CONCORD
CONCORD, NORTH CAROLINA

B.O.C. SOLID WASTE
DEBRIS SITE
PROJECT # :2010-027

CONSTRUCTION SEQUENCE

- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
- CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION.
- CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
- CONTRACTOR SHALL MAINTAIN TRAFFIC AND SAFETY CONTROL MEASURES AT ALL TIMES ON THE PROJECT. (SEE TRAFFIC CONTROL.)
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES (IF ANY) AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS.
- SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS AND BEFORE STARTING WORK.
- CONTRACTOR SHALL CLEAR RIGHT-OF-WAY IF NECESSARY.
- STOCKPILE RIP-RAP ON SITE AND INSTALL ALL OTHER EROSION CONTROL MEASURES WHERE THE WORK IS OCCURRING. THE CONTRACTOR SHALL NOT INSTALL EROSION CONTROL MEASURES IN AREAS WHERE THE WORK WILL NOT OCCUR FOR SOME TIME. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY/PROJECT ENGINEER OR UPON RECOMMENDATION OF NC DENR PERSONNEL AS CONDITIONS WARRANT.
- IN AREAS WHERE IT IS NOT FEASIBLE TO INSTALL EROSION CONTROL DEVICES, ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED BY THE CONTRACTOR WITHIN THREE DAYS OF INITIAL DISTURBANCE. TEMPORARY SEEDING SHALL BE REQUIRED ON ALL OTHER AREAS TO BE DISTURBED FOR A PERIOD OF 10 DAYS OR LONGER.
- CONTRACTOR SHALL COORDINATE ALL BLOW-OFFS AND TESTING WITH THE CITY ENGINEERING DEPARTMENT'S CONSTRUCTION ADMINISTRATOR AT LEAST 24 HOURS IN ADVANCE OF SUCH WORK. NOTIFY THE RESPONSE AREA FIRE DEPARTMENT IF EXISTING SYSTEM VALVES NEED TO BE SHUT OFF IN THE COURSE OF THE WORK.
- UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NC DENR-DLR, ALL EROSION CONTROL DEVICES EXCEPT FOR CREEK/STREAM BANK STABILIZATION SHALL BE REMOVED AND DISPOSED OF IN AN ACCEPTABLE MANNER. EACH SECTION SHALL BE SEEDED AT EARLIEST POSSIBLE DATE AFTER INSTALLATION OF PIPE, STRUCTURE, OR ACCESS.
- ONCE GROUND COVER IS FIRMLY ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NC DENR-DLR.
- CONTRACTOR SHALL REFERENCE SPECIAL CONDITIONS FOR JOB SEQUENCE AND OTHER DIRECTIONS, IF ANY. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITY WITH THE CITY ENGINEERING DEPARTMENT.

GENERAL NOTES

- ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP IS TO BE IN ACCORDANCE WITH AND SUBJECT TO THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATIONS, THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND NCDOT STANDARD SPECIFICATIONS, AND THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS. IN THE EVENT OF CONFLICT BETWEEN THE WATER AND SEWER AUTHORITY OF CABARRUS COUNTY'S STANDARD SPECIFICATION, THE CITY OF CONCORD'S ORDINANCES, POLICIES, AND STANDARD SPECIFICATIONS, AND NCDOT STANDARD SPECIFICATIONS, OR THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.
- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE LATEST STANDARDS OF THE N.C. SEDIMENTATION POLLUTION CONTROL ACT AND APPLICABLE LOCAL AND FEDERAL REQUIREMENTS.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ADMINISTRATOR OF THE CITY OF CONCORD ENGINEERING DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK.
- INDIVIDUAL WATER, GAS, SEWER, TELEPHONE, AND CABLE SERVICES MAY OR MAY NOT BE SHOWN ON THE PLANS. CONTRACTOR TO CONTACT APPROPRIATE AGENCY FOR FIELD LOCATIONS.
- CITY OF CONCORD ELECTRIC, WATER, AND SEWER DEPARTMENT PERSONNEL WILL ASSIST THE CONTRACTOR IN LOCATING ALL CITY OF CONCORD UTILITY SERVICES AND LINES.
- IF MAILBOX PULL-OFF AREAS ARE DISTURBED, CRUSHED STONE STABILIZER SHALL BE PLACED WITH SUFFICIENT LENGTH TO ACCOMMODATE VEHICULAR TRAFFIC. THESE AREAS SHALL BE MAINTAINED FOR THE ONE-YEAR WARRANTY PERIOD. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE COST OF LAYING PIPE.
- THIS PROJECT SUBJECT/NOT SUBJECT TO 100 YEAR FLOOD PER FIRM MAP 37105539004, NOVEMBER 5, 2008.
- FIRE HYDRANT EXTENSIONS, IF NEEDED, SHALL BE INCLUDED IN THE COST OF THE HYDRANT INSTALLATION.
- GATE OR BUTTERFLY VALVES, BLOW-OFFS, AND FIRE HYDRANTS MAY BE FIELD ADJUSTED 50 FEET IN EITHER DIRECTION WITH THE PERMISSION OF THE ENGINEERING AND WATER RESOURCES DEPARTMENTS.

RIGHT-OF-WAY NOTES

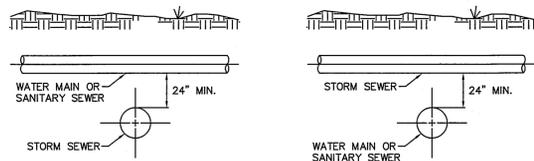
- RIGHT-OF-WAY LINES AND PROPERTY LINES ARE SHOWN ON THE DESIGN DRAWINGS AND ARE FOR REFERENCE ONLY. FOR EXACT LOCATIONS REFER TO THE SURVEY PLATS BY THE CITY OF CONCORD'S CONSULTING REGISTERED LAND SURVEYOR OR BY THE CITY SURVEYOR.
- REFER TO STANDARDS AND SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION FOR FURTHER DETAILS CONCERNING THE RIGHT-OF-WAY.

TRAFFIC CONTROL

- THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR WORK ZONE TRAFFIC SAFETY AND CONTROL.
- ALL WORK ZONE TRAFFIC CONTROL DEVICES AND OPERATIONS USED ON STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY OR INCIDENT MANAGEMENT SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD).
- ALL TRAFFIC/SAFETY CONTROL DEVICES SHALL BE IN GOOD REPAIR AND SHALL BE POSITIONED AT ALL TIMES IN THE APPROPRIATE LOCATIONS FOR THE WORK OPERATION. THE CONTRACTOR SHALL CAREFULLY MONITOR SITE CONDITIONS SUCH AS LIGHT, WEATHER, TRAFFIC VOLUME, ETC. TO ENSURE THAT ALL TRAFFIC/SAFETY CONTROL MEASURES ARE OPERATING EFFECTIVELY.
- THE CONTRACTOR SHALL PREPARE A PROPOSAL ON THE TRAFFIC CONTROL OPERATIONS AND PRESENT THEM TO THE CITY OF CONCORD'S ENGINEERING DEPARTMENT CONSTRUCTION ADMINISTRATOR (PHILIP KINGSLAND) @ 920-5404 AT LEAST 48 HOURS BEFORE BEGINNING WORK.

UTILITY NOTE

THERE WILL BE A MINIMUM 10-FOOT HORIZONTAL SEPARATION BETWEEN THE SEWER LINE AND THE WATER MAIN. WHEN THE 10-FOOT MINIMUM HORIZONTAL SEPARATION CANNOT BE MAINTAINED, AND WHEN THE WATER MAIN IS ABOVE THE SEWER, BUT WITH LESS THAN 24 INCHES OF CLEARANCE, OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER MAIN AND THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE, MEASURED AT RIGHT ANGLES TO THE SEWER, OF 10 FEET ON EACH SIDE OF THE CROSSING. (SEE DETAIL BELOW)



PROJECT CONSIST OF CLEARING AND GRADING APPROX. 2.9 ACRES FOR A YARD WASTE TRANSFER SITE FOR THE CITY OF CONCORD. WORK TO INCLUDE CLEARING, GRADING, EROSION CONTROL MEASURES INSTALLATION, DRIVEWAY CONSTRUCTION, LOADING RAMP CONSTRUCTION AND CONCRETE DRIVEWAY APRON.

THE EFFECTIVE AREA OF GROUND DISTURBANCE IS 2.8± ACRES. THE WORK IS TO PROCEED IN SUCH A MANNER AS TO LIMIT THE AMOUNT OF GROUND DISTURBANCE BY HAVING ONLY ONE SECTION OF THE DITCH OPEN AT A TIME THEREBY REDUCING THE POTENTIAL FOR LARGE QUANTITIES OF SEDIMENT TO BE TRANSPORTED OFF SITE. SEEDING OF DENUDEED AREAS SHALL BE DONE AS SOON AS POSSIBLE, BUT IN NO CASE LONGER THAN 10 DAYS AND IN ACCORDANCE WITH THE SPECIFICATIONS GIVEN IN THE PLANS. REMOVAL OF ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL ONLY BE DONE AFTER APPROVAL HAS BEEN COORDINATED WITH NC DENR - DIVISION OF LAND RESOURCES AND THE CITY OF CONCORD.

LOCATION AND PROTECTION OF ALL UTILITIES IN THE WORK AREA SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IN THE EVENT OF AN UNFORESEEN CONFLICT, THE CONTRACTOR SHALL NOTIFY THE CITY OF CONCORD ENGINEERING DEPARTMENT IMMEDIATELY.

ALL TRAFFIC CONTROL AND SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH THE LATEST REVISION OF PART IV OF THE M.U.T.C.D., NCDOT, AND ALL OTHER STATE AND FEDERAL REGULATIONS. COMPLETION AND ACCEPTANCE OF THE WORK IS ANTICIPATED TO BE FALL OF 2013.



VICINITY MAP
SCALE: N.T.S.

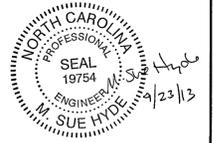
NARRATIVE DESCRIPTION

LEGEND

- PROPOSED SEWER LINE, MANHOLE & CLEAN-OUT
- PROPOSED WATER LINE
- PROPOSED FIRE HYDRANT
- PROPOSED WATER VALVE
- PROPOSED BLOW-OFF
- SEDIMENT FENCING
- DA-GLO ORANGE PERSONNEL FENCING
- PROPOSED ENCASEMENT
- EXISTING SEWER AND MANHOLE
- EXISTING SEWER FORCE MAIN
- EXISTING WATER LINE
- EXISTING GAS LINE
- EXISTING TELEPHONE (OVERHEAD OR UNDERGROUND)
- EXISTING ELECTRIC (OVERHEAD OR UNDERGROUND)
- PROPERTY LINE AND IRON PIN
- TEMPORARY CONSTRUCTION EASEMENT
- RIGHT OF WAY/PERMANENT EASEMENT
- WATERWAY/DITCH LINE
- EXISTING BARBED WIRE FENCE
- EXISTING WOVEN WIRE FENCE
- EXISTING CHAIN LINK FENCE
- TREE/WOODS LINE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING WATER METER
- EXISTING WELL
- EXISTING TELEPHONE/POWER RISER
- EXISTING LIGHT POLE
- EXISTING POWER POLE/GUY WIRE
- EXISTING STREET OR LOCATION SIGN
- EXISTING CONCRETE R/W MONUMENT
- BENCHMARK/TEMPORARY BENCHMARK
- EXISTING RCP OR CMP
- EXISTING MAILBOX



PREPARED BY
ENGINEERING DEPARTMENT
CITY OF CONCORD
P.O. BOX 308
CONCORD N.C. 28026
(704) 920-5425



Engineer's Seal

Surveyor's Seal

DRAWING INDEX

- SHEET 1 PROJECT NARRATIVE, NOTES, LEGEND, SITE MAP
- SHEET 2 DESIGN - GRADING & EROSION CONTROL
- SHEET 3-4 DESIGN - PLAN/PROFILE
- SHEET 5 DETAILS - LOADING RAMP
- SHEET 6 DETAILS - EROSION CONTROL

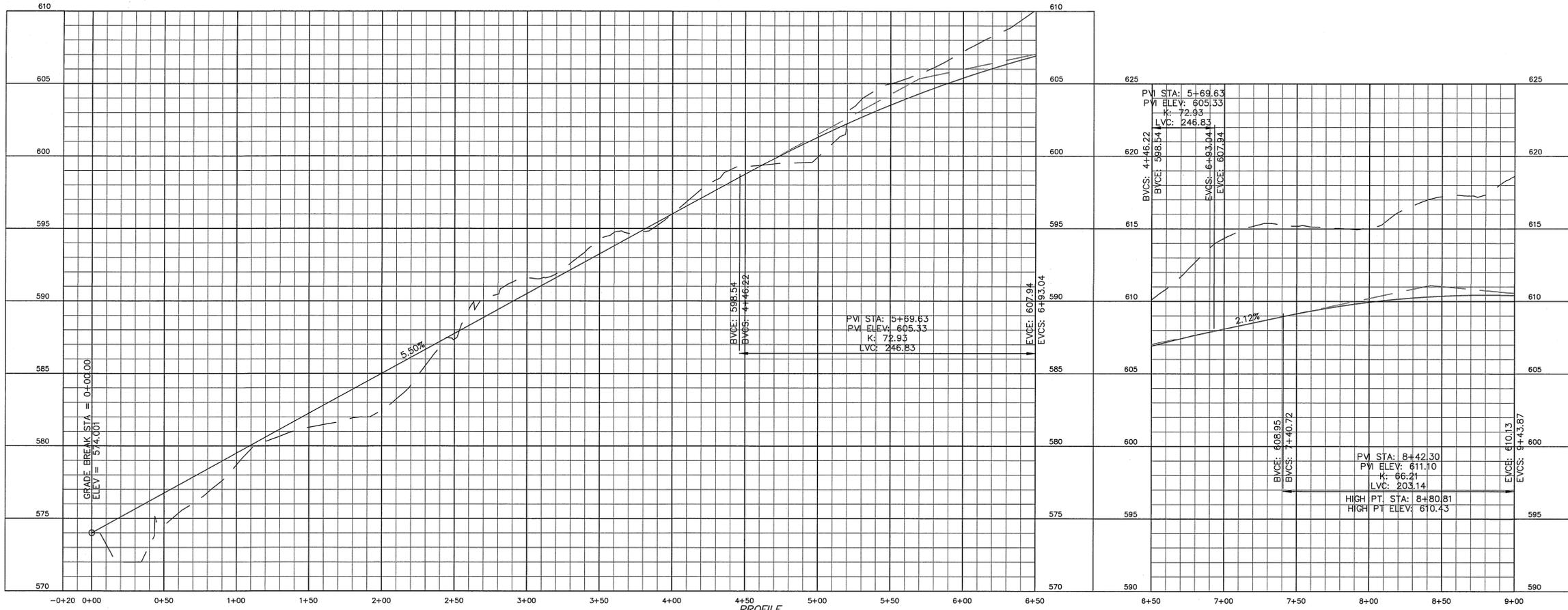
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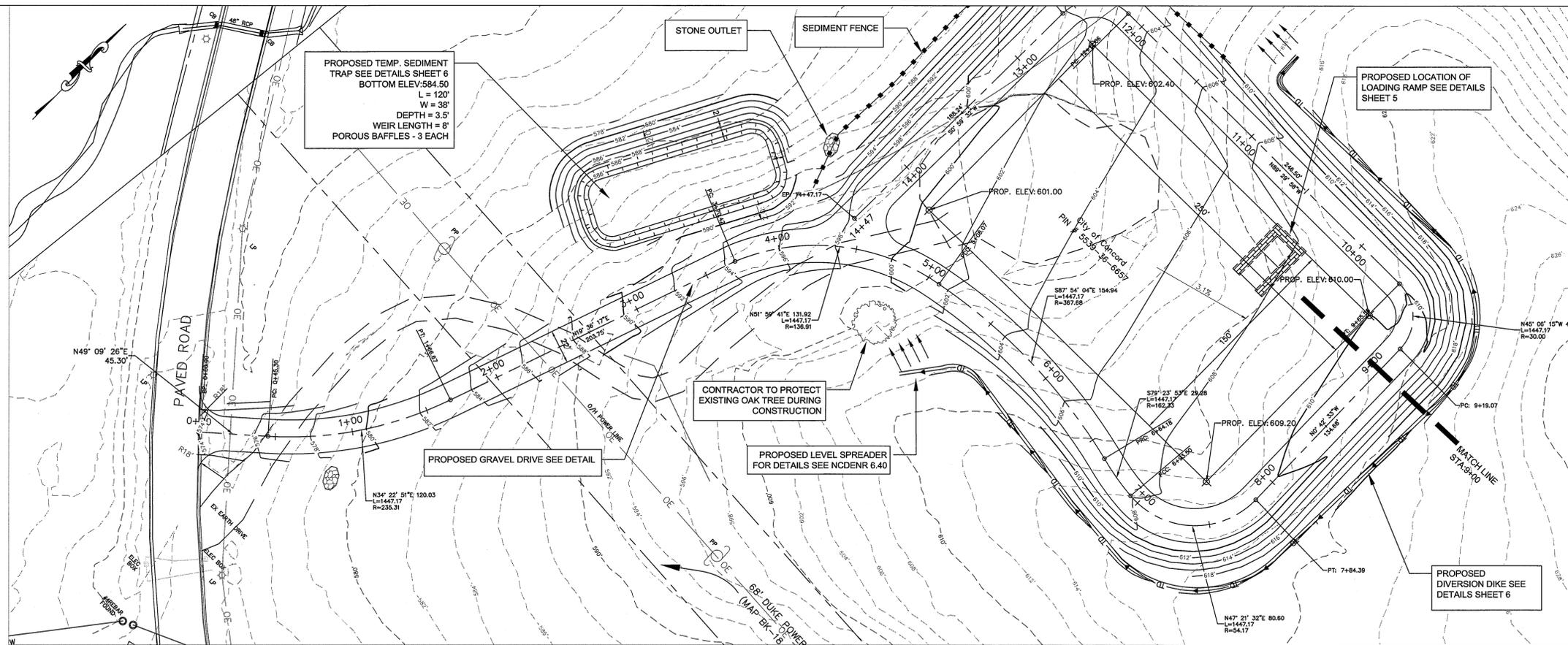
Engineer's Seal

Surveyor's Seal

**B.O.C. SOLID WASTE DEBRIS SITE
PLAN & PROFILE
PROJECT # : 2010-027**



PROFILE
SCALE: HORZ: 1" = 40'
VERT: 1" = 4'



PLAN
SCALE: 1" = 40'

PROTECTION OF EXISTING UTILITIES
THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCY FOR THE EXACT FIELD LOCATIONS OF ALL WATER, SEWER, ELECTRIC, TELEPHONE, TELEVISION AND ANY OTHER UNDERGROUND AND OVERHEAD UTILITY BEFORE STARTING CONSTRUCTION. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE CONTRACT DRAWINGS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF WORK.

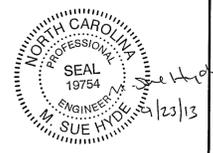
THE FOLLOWING LISTING OF UTILITY COMPANIES (WHICH MAY OR MAY NOT BE COMPLETED) MAY HAVE EXISTING UNDERGROUND OR OVERHEAD UTILITIES IN THE CONTRACT VICINITY:

COMPANY NAME	OFFICE/AREA	PHONE NUMBER
AT&T	N/A	1-800-333-8888
Amtrak	N/A	1-800-533-3333
Coburn County Emergency Mgmt	704.920.2143	704.920.3000
Carolina Water - Utilities Inc. (Zemose Area)	704.525.7992	704.525.7999
City of Concord Electric Systems	704.920.5555	704.920.5555
City of Concord Emergency Mgmt	704.920.5525	704.920.5555
Colonial Pipeline Company	704.992.8810	704.920.8839
CSX Railroads	N/A	1-800-232-6144
Duke Energy	1-800-769-3766	1-800-769-3766
NC Dept. of Transportation	704.882.0104	704.986.3700
NC One Call Center Area Rep.	1-336-855-5760	1-800-632-8469
Norfolk Southern Railway	N/A	1-800-453-2338
North Carolina Railroad Company	919.354.7607	N/A
Piedmont Natural Gas (aka NCGN)	704.364.3120	1-800-752-7884
Plantation Pipeline	N/A	1-800-510-6278
PNIC Energy Concord	704.723.4310	1-877-776-5277
Sprint	N/A	1-888-733-8839
Time Warner Cable Concord	N/A	1-800-769-2956
Union Power	N/A	1-800-932-4848
USENET Locator Concord	704.364.8333	1-800-632-8469
Water & Sewer Authority of Cabarrus Co.	704.786.1763	704.786.4164
WasteManagement	704.722.5000	1-800-869-5669

NOTE: SOME OF THE ABOVE COMPANIES DO NOT SUBSCRIBE TO CAROLINA ONE CALL (FORMERLY ALLOD)
NORTH CAROLINA ONE CALL 1-800-632-4949

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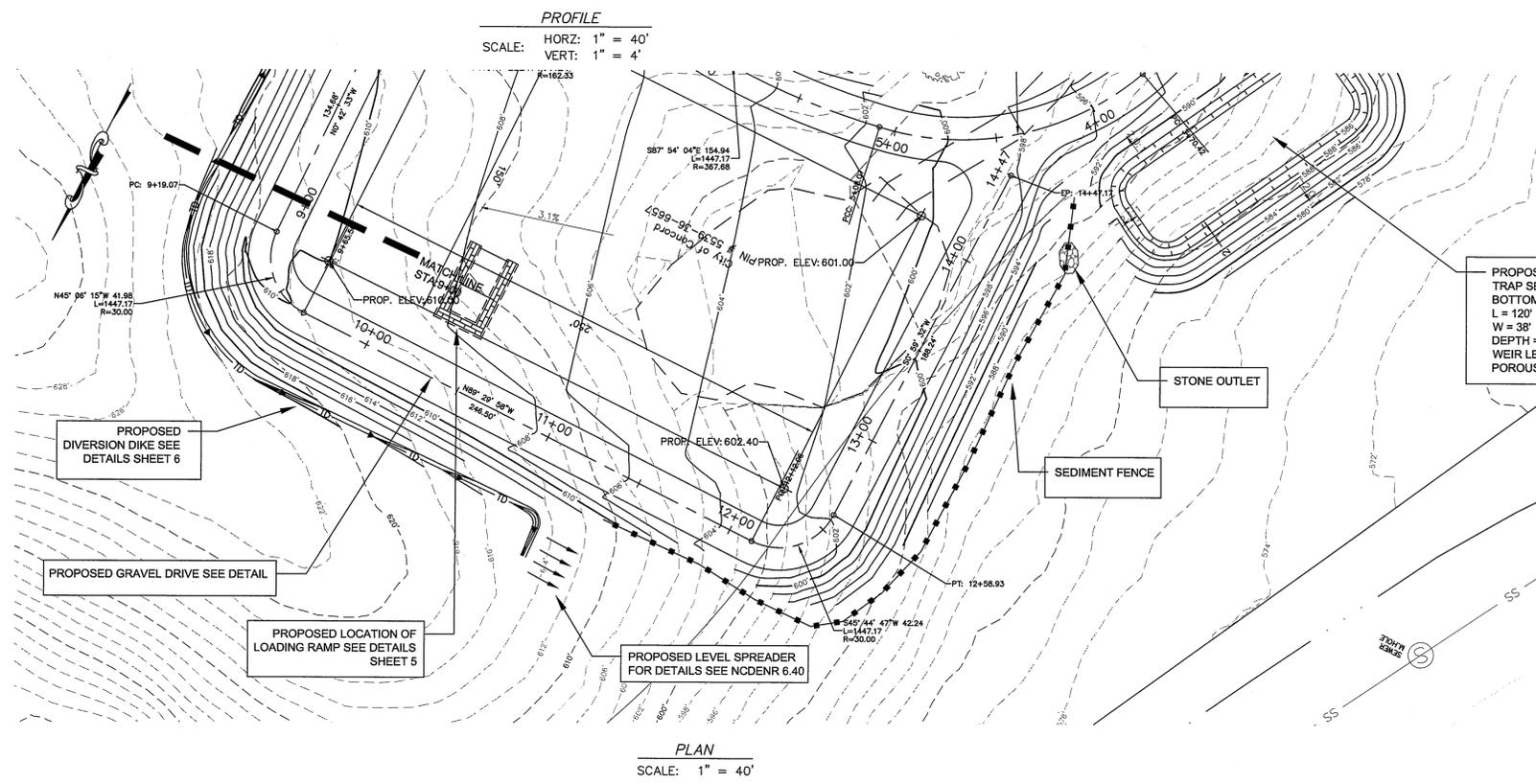
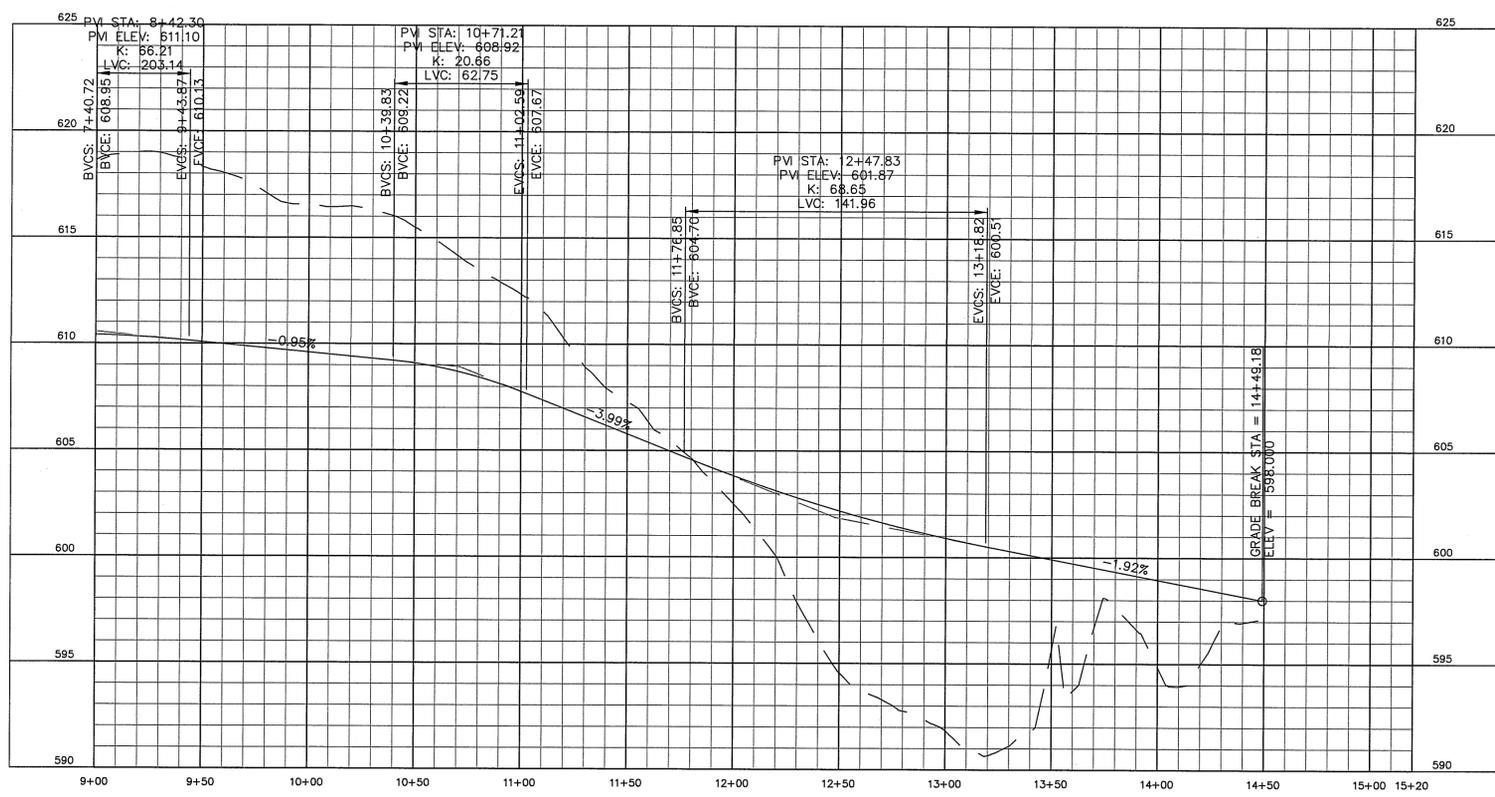
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PROJECT NUMBER: 2010-026
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Engineer's Seal

Surveyor's Seal

**B.O.C. SOLID WASTE DEBRIS SITE
ROAD & STORM PIPE
PLAN & PROFILE
PROJECT # : 2010-027**



PROTECTION OF EXISTING UTILITIES
THE CONTRACTOR SHALL CONTACT THE APPROPRIATE AGENCY FOR THE EXACT FIELD LOCATIONS OF ALL WATER, SEWER, ELECTRIC, TELEPHONE, AND ANY OTHER UNDERGROUND AND OVERHEAD UTILITY BEFORE STARTING CONSTRUCTION. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE CONTRACT DRAWINGS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF WORK.

THE FOLLOWING LISTING OF UTILITY COMPANIES (WHICH MAY OR MAY NOT BE COMPLETE) MAY HAVE EXISTING UNDERGROUND OR OVERHEAD UTILITIES IN THE CONTRACT VICINITY.

COMPANY NAME	OFFICE/ADDRESS	PHONE NUMBER	HOURS OF EMERGENCY SERVICE
Antrak	N/A	1-800-333-0888	
AT&T	1-878-827-5333	1-800-333-1133	
Coburn County Emergency Mgmt	704-920-2143	704-920-3900	
Carolina Water - Utilities Inc. (Zemosa Acres)	704-525-7990	704-525-7990	
City of Concord Electric Systems	704-920-5315	704-920-3900	
City of Concord Emergency Mgmt	704-920-3528	704-920-3555	
Colonial Pipeline Company	704-392-8610	704-392-8610	
CSX Railroad	N/A	1-800-332-8144	
Duke Energy	1-800-769-3765	1-800-769-3766	
NC Dept. of Transportation	704-982-0104	704-986-3700	Steele Co Comm
NC One Call Center Area Rep.	1-336-855-5780	1-800-632-4949	
Norfolk Southern Railway	N/A	1-800-451-2390	
North Carolina Railroad Company	919-554-7601	N/A	
Piedmont Natural Gas (No NONG)	704-364-3100	1-800-752-7564	
Plantation Pipeline	N/A	1-800-518-5678	
PNC Energy Concord	704-723-4310	1-877-778-2423	
Sprint Emborg	N/A	1-888-723-8830	
Time Warner Cable Concord	704-378-2856	704-778-2626	Optima 5, 2, 1
Union Power	N/A	1-800-723-6889	
Utiliquest Locator Concord	704-884-8333	1-800-632-4949	NC One Call
Water & Sewer Authority of Cabarrus Co.	704-785-1733	704-786-4164	800-886-8868
Whispernet	704-722-2000	1-800-886-8868	

NOTE: SOME OF THE ABOVE COMPANIES DO NOT SUBSCRIBE TO CAROLINA ONE CALL (FORMERLY ULOCO)
NORTH CAROLINA ONE CALL 1-800-632-4949

REV. #	DATE	DESCRIPTION	BY
1	XX/XX/XX	(REVISION TEXT TEMP. ON NO-PLOT LAYER)	XXX

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