

TOISNOT PARK ENTRANCE IMPROVEMENTS

for

CITY OF WILSON Wilson County, North Carolina March 2020



MAYOR:

CARLTON L. STEVENS

COUNCIL MEMBERS:

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DEREK D. CREECH
DONALD I. EVANS
WILLIAM THOMAS "TOM" FYLE
JAMES M. JOHNSON, III
LOGAN T. LILES
GILLETTIA M. MORGAN

CITY MANAGER:

GRANT W. GOINGS

DEPUTY CITY MANAGER:

HARRY TYSON

CITY CLERK:

TONYA A. WEST

CITY ENGINEER:

W. T. (BILL) BASS IV, P.E.

CHIEF PLANNING AND DEVELOPMENT
OFFICER:

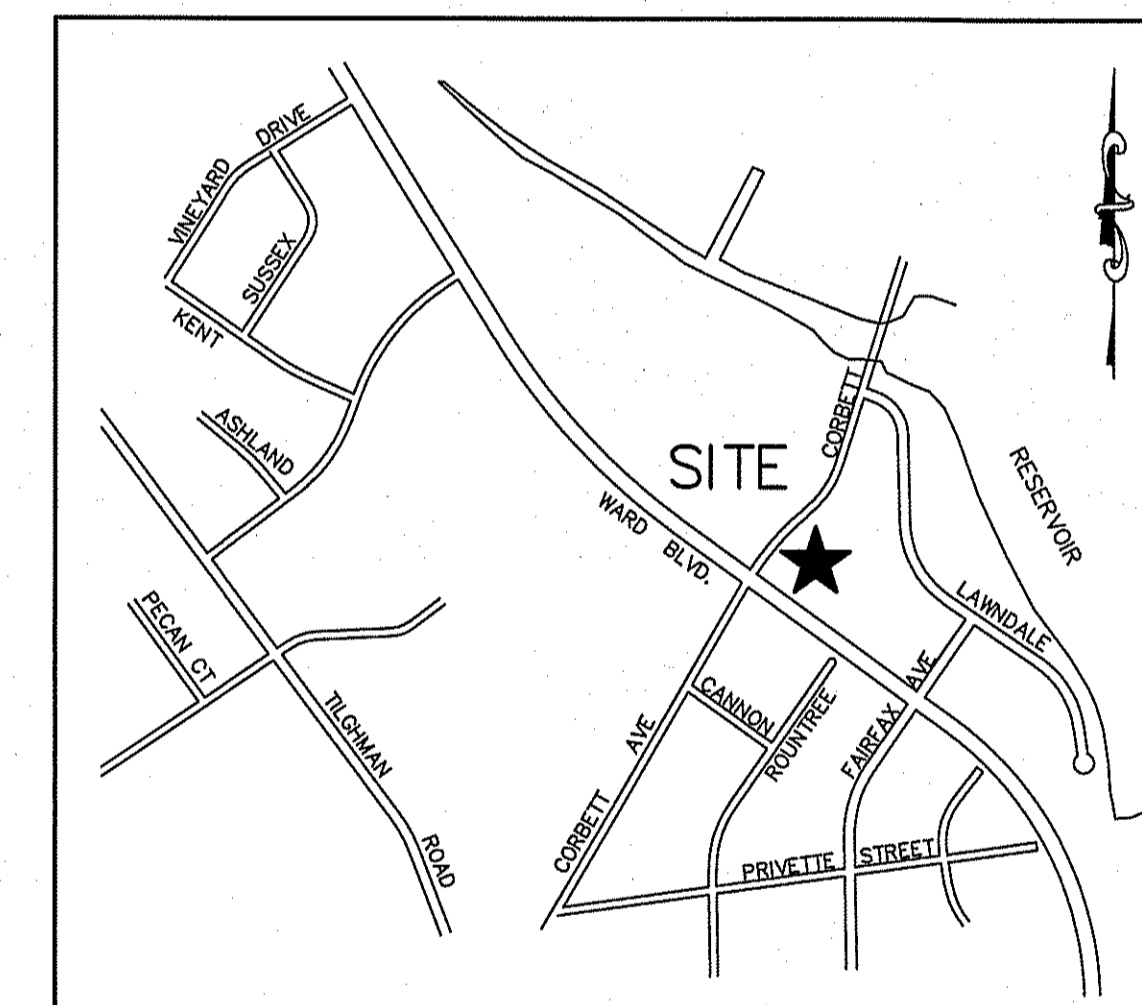
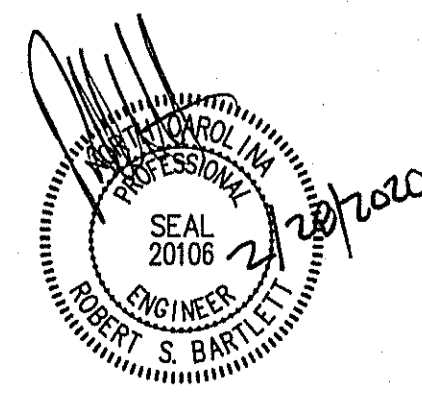
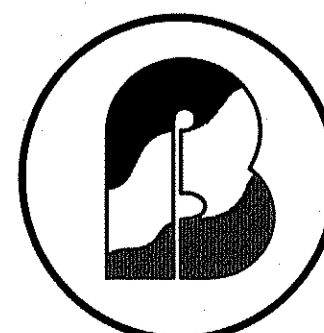
RODGER LENTZ

PARKS AND RECREATION:

DAVID LEE

PREPARED BY:

BARTLETT ENGINEERING & SURVEYING, PC
1906 NASH STREET NORTH
WILSON, NORTH CAROLINA 27893-1726



LOCATION MAP
NO SCALE

SHEET INDEX

CV	COVER SHEET
CP1	GRADING, DRAINAGE, AND SEDIMENTATION & EROSION CONTROL
DT1	DETAILS



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COVER SHEET

TOISNOT PARK ENTRANCE IMPROVEMENTS
WILSON, NORTH CAROLINA

DATE: MARCH 2020
SURVEY BY: DAS/JEB
DRAWN BY: LR
CLIENT CODE: WC
PROJECT: 19-480
CADFILE: 19480SET
SCALE:

REVISIONS

SHEET

CV

STORM DRAIN SCHEDULE (10-YEAR STORM)

FROM	TO	PIPE RUN	INLET AREA (SF)	INLET AREA (ACRES)	INLET TIME (MIN)	PIPE TIME (MIN)	IC CONC (MIN)	I INTENSITY (IN/HR)	C RUNOFF COEFF	Q10 DSCHRG (CFS)	Q10 TOTAL DSCHRG (CFS)	SLOPE (FT/FT)	Dtheo (INCHES)	SIZE (INCHES)	Vfull (FT/SEC)	Qfull (CFS)	LENGTH (FT)	SEGMENT TIME (MIN)	UPPER INVERT	LOWER INVERT
EX CB	D#18									6.87	6.87	0.0001	36.0	36	0.9	6.7	17.6	0.3	97.81	97.81
D#18	D#17	Q	1112	0.03	5.0	0.0	5.0	7.55	0.30	6.73	0.0022	20.2	36	4.4	31.3	84.0	0.3	97.81	97.63	
D#17	FES B	P	5554	0.13	5.0	0.0	5.0	7.55	0.70	0.67	7.40	0.0023	20.8	36	4.5	32.0	186.0	0.7	97.63	97.20

DISSIPATOR PAD/OUTLET PROTECTION SCHEDULE

LOCATION	Qmax CFS	Qfull CFS	Vfull FPS	Vmax FPS	PIPE DIA' INCHES	ZONE	M	NUMBER OF PIPES	APRON LENGTH' (La)	APRON WIDTH' FEET	CLASS	STONE DEPTH' INCHES	D50 STONE SIZE
PIPE P	34.50	31.98	4.52	5.17	36	2	6	1	18	12	B	22	9

PIPE TABLE

UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE	SIZE	LENGTH	SLOPE	MATERIAL	UPPER INVERT	LOWER INVERT
D#18	D#17	Q	36	84.0	0.0022	HDPE	97.81	97.63
D#17	FES B	P	36	186.0	0.0023	HDPE	97.63	97.20

STORM STRUCTURE TABLE

STRUCTURE	DESCRIPTION	TOP ELEV.	INVERT IN	INVERT OUT
D#18	DROP INLET	104.50	97.81	97.81
D#17	DROP INLET	102.75	97.63	97.63

SITE NOTES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR TOWN RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

CONTRACTOR TO COORDINATE INSTALLATION OF CONDUITS FOR PHONES & LIGHTING.

UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM CLEARING AND GRUBBING SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.

CONTRACTOR RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS/ CONDITIONS OF ALL ENCROACHMENTS & PERMITS INCLUDING PROVIDING BONDS/INSURANCE IF REQUIRED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATING REQUIRED INSPECTIONS.

CALL ONE CALL CENTER AT 1-800-632-4949 OR 811 FOR LOCATIONS OF EXISTING UTILITIES THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.

EXCAVATION AND GRADING PLAN NOTES:

ALL AREAS NOT COVERED BY BUILDING OR PAVING TO BE GRASSED, LANDSCAPED OR LEFT NATURAL AS INDICATED.

CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.

BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT AND MARK ITEMS ESTABLISHED BY THE SITE PLAN. CONTROL POINTS SHALL BE PRESERVED AT ALL TIMES DURING THE COURSE OF THE PROJECT. LACK OF THE PROPER WORKING POINTS AND GRADE STAKES MAY REQUIRE CESSATION OF OPERATIONS UNTIL SUCH POINTS AND GRADES HAVE BEEN REPLACED TO THE OWNERS SATISFACTION.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL FILL:

SEE SPECIFICATIONS FOR STRUCTURAL FILL INFORMATION.

OFFSITE BORROW / TRENCH BORROW:

OFFSITE BORROW MATERIAL PLACED ON SITE SHOULD BE LOW PLASTICITY (PI LESS THAN 25 AND LL LESS THAN 50) AND SHALL BE FREE OF ORGANIC MATERIAL OR DEBRIS. PLACE FILL IN 6" TO 10" LOOSE LIFTS AND COMPACT TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY, ASTM D998. THE MOISTURE CONTENT OF THE SOIL SHOULD BE MAINTAINED WITHIN ± 3 PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT DETERMINED BY THE SAME TEST. OFF-SITE BORROW MATERIAL TO BE OBTAINED FROM A PERMITTED SOURCE.

ADA AND LEGAL DISCLAIMER:

THIS DOCUMENT IS NOT REPRESENTED TO COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE ADA OR OTHER LAWS. ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE LEGAL COMPLIANCE.

GAS NOTE:

THERE SHOULD BE A MINIMUM OF 3 FT OF SUITABLE FILL BETWEEN THE EXISTING MAIN AND ANY ROCK, CONCRETE OR ASPHALT INSTALLED.

CONTRACTOR SHALL COMPLY WITH ALL STANDARD AND SPECIAL PROVISIONS OF NCDOT ENCROACHMENT #E042-098-19-00034.

- LEGEND**
- ◇ EXISTING HYDRANT
 - ⊗ EXISTING WATER VALVE
 - ⊕ EXISTING UTILITY POLE
 - ⊖ EXISTING GUY WIRE
 - ⊙ EXISTING TELEPHONE PEDESTAL
 - ⊚ EXISTING CATCH BASIN
 - ⊛ EXISTING DROP INLET
 - ⊜ EXISTING SIGN

LINE LEGEND & ABBREVIATIONS

- C&G EXISTING CONCRETE CURB AND GUTTER
- EOP EXISTING EDGE OF PAVEMENT
- R/W EXISTING RIGHT OF WAY LINE
- OHE EXISTING OVERHEAD ELECTRIC (APPROX. LOCATION)
- W EXISTING WATER LINE (APPROX. LOCATION)
- SD EXISTING STORM DRAIN LINE (APPROX. LOCATION)
- - - EXISTING RIGHT-OF-WAY LINE

- EROSION CONTROL LEGEND**
- ELEV - - - EXISTING CONTOUR
 - ELEV ——— PROPOSED CONTOUR
 - - - - - LIMITS OF DISTURBANCE
 - SF - SF - SILT FENCE
 - DROP INLET PROTECTION
 - ▨ TEMPORARY DIVERSION W/ TEMP. LINER (TO BE STABILIZED W/IN 7 DAYS)
 - ⊗ SILT FENCE OUTLET
 - ⊙ OUTLET PROTECTION
 - ▨ TEMPORARY CONSTRUCTION ENTRANCE

STANDARD NOTES

WETLANDS, IF ANY, HAVE NOT BEEN DELINEATED ON THIS PROPERTY. THIS PROPERTY IS LOCATED IN A FLOOD HAZARD AREA, PANEL NO. 3720372200K DATED 4/16/2013. THIS PROPERTY IS LOCATED IN THE WS-3-C PROTECTED WATERSHED AREA.

ALL DISTANCES ARE HORIZONTAL UNLESS NOTED OTHERWISE. 10'x70' SIGHT DISTANCE TRIANGLES ARE FROM RIGHT-OF-WAY. NO CEMETERIES FOUND ON THE PROPERTY. AREAS COMPUTED BY COORDINATE CALCULATIONS. NO GRID MONUMENT FOUND WITHIN 2000'. ALL DISTANCES SHOWN ARE HORIZONTAL UNLESS NOTED OTHERWISE. ALL RIGHTS-OF-WAY ARE PUBLIC UNLESS NOTED OTHERWISE. THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS, RESTRICTIVE COVENANTS AND ORDINANCES. ALL PROPOSED SPOT ELEVATIONS ARE ASPHALT / STONE GRADE, OR AS NOTED. ALL TRAFFIC CONTROL DEVICES, PAVEMENT MARKINGS, SIGNS AND SIGNALS SHALL BE DESIGNED, INSTALLED AND MAINTAINED IN CONFORMANCE WITH THE STANDARDS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY R/W. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

THE UTILITY LOCATIONS SHOWN ON THIS MAP ARE APPROXIMATE ONLY, AND ARE NOT RELIABLE FOR CONSTRUCTION PURPOSES FOR ACTUAL FIELD LOCATIONS. CALL 1-800-632-4949 OR 811 THREE WORKING DAYS MINIMUM PRIOR TO EXCAVATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF RELOCATION OF ANY UTILITY POLES. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING/RELOCATING OF ANY OTHER UTILITIES AS REQUIRED (INCLUDING BUT NOT LIMITED TO MANHOLE TOPS, VALVE BOXES, ETC.)

A FLOODPLAIN DEVELOPMENT PERMIT WILL BE REQUIRED FOR ALL WORK.

CONSTRUCTION SEQUENCE:

1. LAND DISTURBANCE IS LESS THAN 1 ACRE. NO SEDIMENTATION AND EROSION CONTROL PERMIT IS REQUIRED.
2. INSTALL SILT FENCE AND SILT FENCE OUTLETS ACCORDING TO PLANS.
3. BEGIN CONSTRUCTION OF STORM DRAINAGE SYSTEM. INSTALL TEMPORARY CONSTRUCTION ENTRANCE IMMEDIATELY AFTER PIPE AT ENTRANCE IS INSTALLED. INSTALL SILT FENCE OVER AND AROUND PIPE OUTLETS AND NECESSARY PIPE OUTLET PROTECTION.
4. UNTIL BOXES ARE BUILT, INSTALL AND MAINTAIN PIPE INLET PROTECTION FOR STORM DRAIN UNDER CONSTRUCTION DEVICE AT END OF DAY OR ONSET OF RAIN.
5. INSTALL DROP INLET PROTECTION THEN BEGIN GRADING AND GROUND STABILIZATION.
6. THE CONTRACTOR SHALL CONDUCT SELF-INSPECTIONS OF EROSION AND SEDIMENTATION CONTROL MEASURES.
7. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN AND BE PROPERLY MAINTAINED UNTIL A VIGOROUS STAND OF PERMANENT VEGETATION IS ESTABLISHED.
8. PERMANENT GROUND COVER SHALL BE ESTABLISHED IN 15 WORKING DAYS OR 90 CALENDAR DAYS, WHICHEVER IS SHORTER.
9. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS STABILIZED, REMOVE TEMPORARY MEASURES.
10. STREET IN FRONT OF THE PROJECT SITE SHALL BE KEPT CLEAR AT ALL TIMES.

MAINTENANCE:

1. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED AT LEAST ONCE EVERY WEEK AND AFTER EVERY RUN-OFF PRODUCING RAINFALL.
2. SEDIMENT SHALL BE REMOVED AND DEVICES REPAIRED AND/OR REPLACED AS NECESSARY.

EXISTING CONDITIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL EXISTING JOB CONDITIONS. ANY ADVERSE CONDITIONS AFFECTING WORK SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR POSSIBLE CLARIFICATION OR RECONCILIATION.

CONSTRUCTION SAFETY:

THESE DRAWINGS DO NOT CONTAIN THE REQUIREMENTS FOR JOB SAFETY. ALL PROVISIONS FOR SAFETY SHALL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.

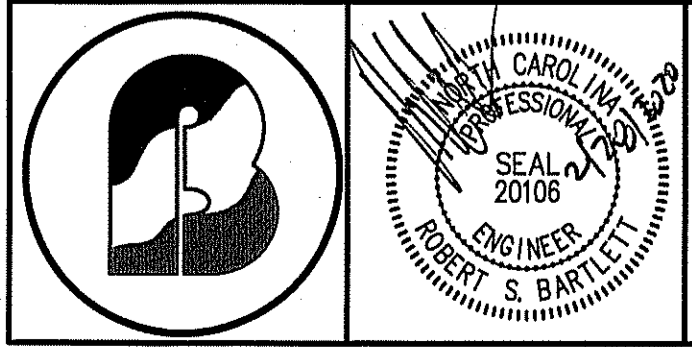
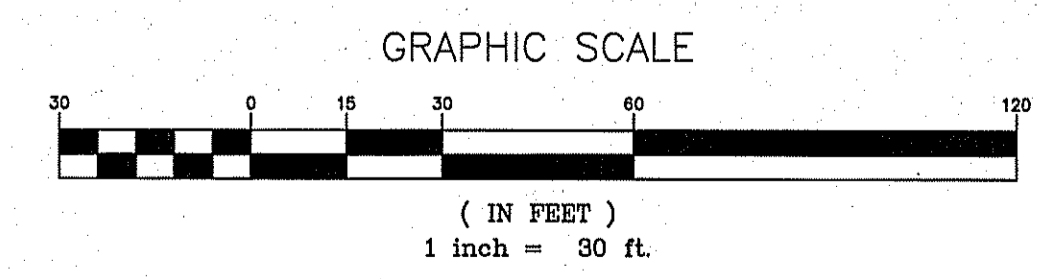
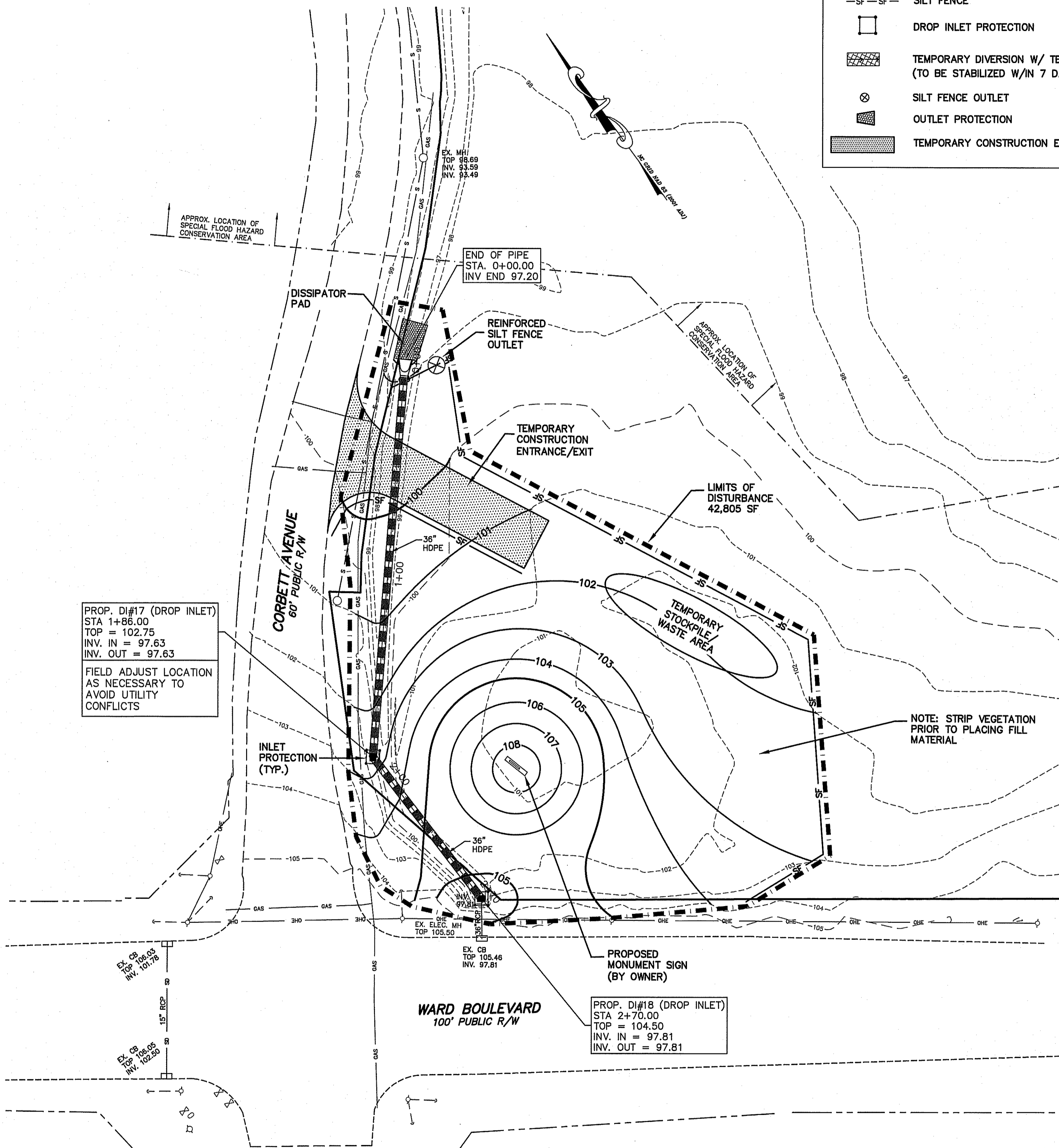
GENERAL NOTES:

WORK WITHIN THE NCDOT RIGHT-OF-WAY SHALL CONFORM TO NCDOT STANDARDS AND SPECIFICATIONS. CALL ONE CALL CENTER AT 1-800-632-4949 FOR LOCATIONS OF EXISTING UTILITIES PRIOR TO EXCAVATION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK ZONE TRAFFIC CONTROL IN OR ADJACENT TO NCDOT OR CITY RIGHT-OF-WAY. ALL METHODS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.

DEMOLITION NOTES:

1. UNUSABLE EXCAVATED MATERIALS AND ALL WASTE RESULTING FROM DEMOLITION SHALL BE DISPOSED OF AT AN APPROVED PERMITTED OFF-SITE LOCATION BY CONTRACTOR.
2. CONTRACTOR SHALL NOTIFY AND COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE BEFORE DISTURBING, ALTERING, REMOVING, RELOCATING, ADJUSTING OR CONNECTING TO SAID FACILITIES. CONTRACTOR SHALL RAISE OR LOWER TOPS OF EXISTING MANHOLES AS REQUIRED TO MATCH FINISHED GRADES.
3. COORDINATE WITH THE LOCAL UTILITY PROVIDER FOR REMOVAL/RELOCATION OF EXISTING ELECTRICAL TRANSFORMERS AND/OR LIGHT POLES.
4. SIDEWALK AND CURB & GUTTER TO BE REMOVED TO NEAREST JOINT OR SAW-CUT IN A MANNER SUCH THAT NO JOINT IS LESS THAN 5 FEET.
5. ANY EXISTING CURB & GUTTER OR ASPHALT DAMAGED DURING CONSTRUCTION WILL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.



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GRADING, DRAINAGE AND
SEDIMENTATION &
EROSION CONTROL

TOISNOT PARK
— ENTRANCE IMPROVEMENTS —

DATE: MARCH 2020	PROJECT: 19-480
SCALE(HORIZ): 1"=30'	CLIENT CODE: WC
SCALE(VERT): N/A	CADFILE: 19480SE1
REVISIONS:	FIELD BOOK: 348
	DRAWN BY: CEP/LR
	SURVEY BY: DB, JB

CITY OF WILSON	WILSON COUNTY
NORTH CAROLINA	ZONE: RMX/OS
PIN #	SHEET CP1

SEEDBED PREPARATION:

CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3" DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
RIP ENTIRE AREA 6" DEEP.
REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
APPLY AGRICULTURAL LIME AND FERTILIZER UNIFORMLY AND MIX WITH SOIL.
CONTINUE TILLAGE UNTIL A WELL PULVERIZED, REASONABLY UNIFORM SEEDBED IS PREPARED 4" TO 6" DEEP.
SPREAD SEED ON FRESHLY PREPARED SEEDBED AND COVER LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACKER AFTER SEEDING.
MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.

HYDROSEEDING

SURFACE ROUGHENING IS PARTICULARLY IMPORTANT WHEN HYDROSEEDING, AS A ROUGHENED SLOPE WILL PROVIDE SOME NATURAL COVERAGE FOR LIME, FERTILIZER, AND SEED. THE SURFACE SHOULD NOT BE COMPACTED OR SMOOTH. THE SEEDBED PREPARATION IS NOT NECESSARY FOR HYDROSEEDING OPERATIONS. LARGE CLOUDS, STONES, AND IRREGULARITIES PROVIDE CAVITIES IN WHICH SEEDS CAN LODGE.

RATE OF WOOD FIBER (CELLULOSE) APPLICATION SHOULD BE AT LEAST 2,000 LB/ACRE.

APPLY LEGUME INOCULANTS AT FOUR TIMES THE RECOMMENDED RATE WHEN ADDING INOCULANT TO A HYDROSEEDER SLURRY.

IF A MACHINERY BREAKDOWN OF 1/2 TO 2 HOURS OCCURS, ADD 50% MORE SEED TO THE TASK, BASED ON THE PROPORTION OF THE SLURRY REMAINING. THIS SHOULD COMPENSATE FOR DAMAGE TO SEED. BEYOND 2 HOURS, FULL RATE OF NEW SEED MAY BE NECESSARY.

LIME IS NOT NORMALLY APPLIED WITH A HYDRAULIC SEEDER BECAUSE IT IS ABRASIVE. IT CAN BE BLOWN ONTO STEEP SLOPES IN DRY FORM.

CRIMPING STRAW MULCH

CRIMPING CAN BE APPLIED TO AREAS ADJACENT TO ANY SECTION OF THE ROADWAY WHERE TRAFFIC IS TO BE MAINTAINED OR ALLOWED DURING CONSTRUCTION. IN AREAS WITHIN SIX FEET OF THE EDGE OF PAVEMENT, STRAW IS TO BE APPLIED AND THEN CRIMPED. AFTER THE CRIMPING OPERATION IS COMPLETE, AN ADDITIONAL APPLICATION OF STRAW SHALL BE APPLIED AND IMMEDIATELY TAGGED WITH A SUFFICIENT AMOUNT OF UNDILUTED EMULSIFIED ASPHALT.

STRAW MULCH SHALL BE OF SUFFICIENT LENGTH AND QUALITY TO WITHSTAND THE CRIMPING OPERATION. CRIMPING EQUIPMENT INCLUDING POWER SOURCE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER PROVIDING THAT MAXIMUM SPACING OF CRIMPER BLADES SHALL NOT EXCEED 8".

SEEDING SCHEDULE:

SEEDING MIXTURE SPECIES	WINTER/EARLY SPRING		SUMMER		FALL	
	RATE(LB/ACRE)		RATE(LB/ACRE)		RATE(LB/ACRE)	
GERMAN MILLET	40		40		120	
RYE (GRAIN)	120				60	
PARTRIDGE PEA	60					
SEEDING DATES	12/1-4/15		4/15-8/15		8/15-12/30	
SOIL AMENDMENTS						
LIMESTONE	2000 LB/ACRE		2000 LB/ACRE		2000 LB/ACRE	
FERTILIZER(10-10-10)	750 LB/ACRE		750 LB/ACRE		1000 LB/ACRE	
STRAW MULCH	4000 LB/ACRE		4000 LB/ACRE		4000 LB/ACRE	
EMULSIFIED ASPHALT TACK	435 GALLON/ACRE		435 GALLON/ACRE		435 GALLON/ACRE	
PERMANENT SEEDING						
SEEDING MIXTURE SPECIES	WINTER/EARLY SPRING		SUMMER		FALL	
PARTRIDGE PEA	200		400		200	
INDIAN GRASS	10		10		10	
GERMAN MILLET	15					
SEEDING DATES	2/1-4/15		5/1-8/15		8/25-10/1	
SOIL AMENDMENTS						
LIMESTONE	3000-5000 LBS/ACRE		3000-5000 LBS/ACRE		3000-5000 LBS/ACRE	
FERTILIZER(10-10-10)	1000 LB/ACRE		1000 LB/ACRE		1000 LB/ACRE	
STRAW MULCH	4000 LB/ACRE		4000 LB/ACRE		4000 LB/ACRE	
EMULSIFIED ASPHALT TACK	435 GALLON/ACRE		435 GALLON/ACRE		435 GALLON/ACRE	

HYDROSEEDING

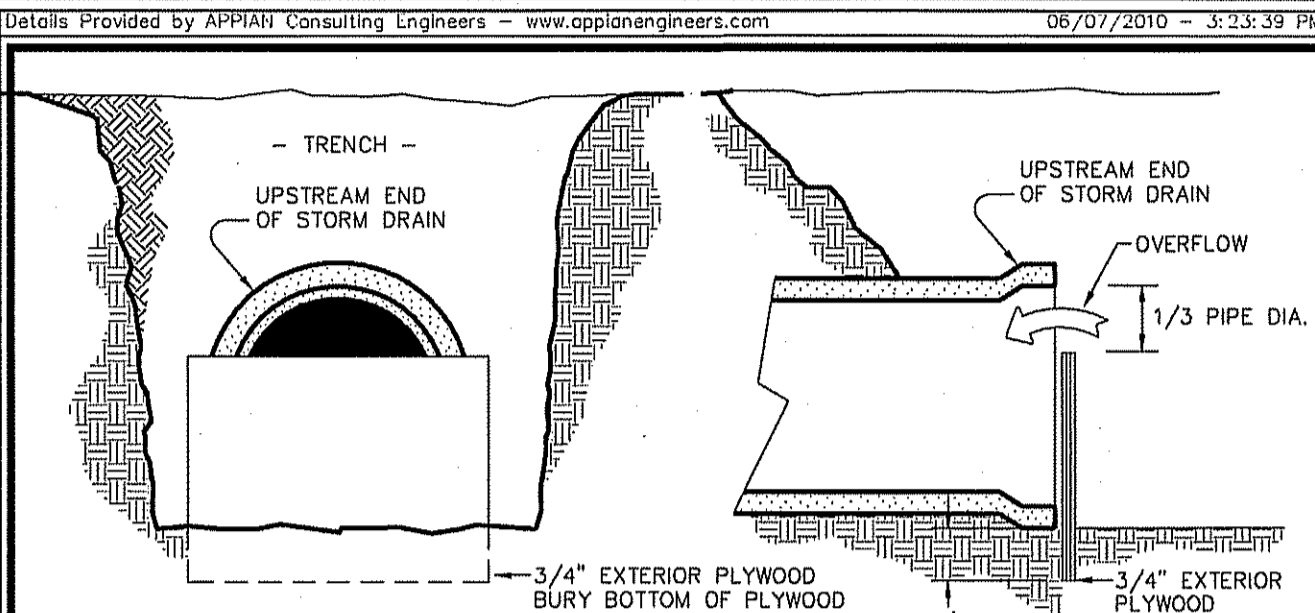
MATERIAL	QUANTITY
SEED	200 LB/ACRE
FERTILIZER	500 LB/ACRE
STRAW MULCH	2000 LB/ACRE
TACKIFIER	100 LB/ACRE

MAINTENANCE:

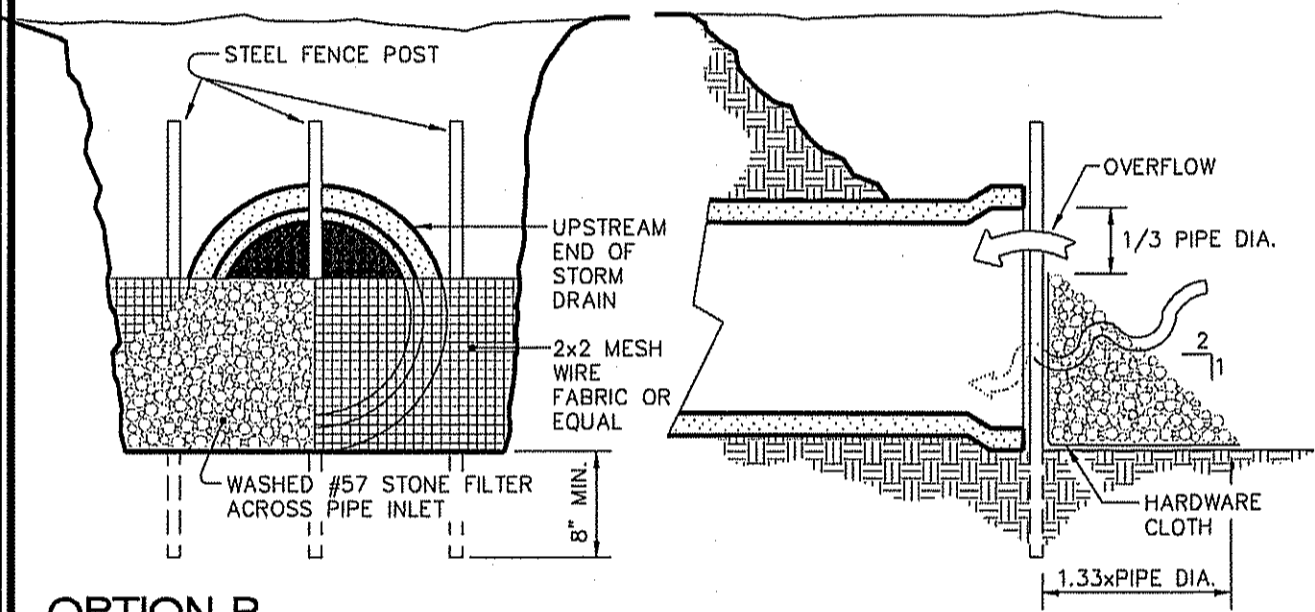
SOME RECOMMENDED GRASS SPECIES MAY REQUIRE TWO YEARS FOR ESTABLISHMENT, DEPENDING ON SITE CONDITIONS. INSPECT SEEDING AREA FOR FAILURE AND MAKE NECESSARY REPAIRS, SOIL AMENDMENTS, AND RESEEDINGS. IF NEEDED, EXISTING SPECIES HAVE OVERTAKEN THE AREA AFTER THE FIRST GROWING SEASON, THE INVADING SPECIES MUST BE ERADICATED TO ALLOW NATIVE SPECIES TO GROW. NATIVE VEGETATIONS ARE DIFFICULT TO MANAGE AND TAKE LONGER TO ESTABLISH. MONITOR THE SITE UNTIL LONG TERM STABILITY HAS BEEN ESTABLISHED.

WFOES Stormwater Discharge Permit for Construction Activities (NCDOT) NCDNR/Division of Energy, Mineral and Land Resources

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAMES (Effective Aug. 1, 2011)	
	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter ditches, swales, ditches, 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' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeter and HQW Zones.



OPTION A
ILLUSTRATION OF PLYWOOD INLET PROTECTION FOR STORM DRAIN UNDER CONSTRUCTION.
NOT TO SCALE REV. 9-1-92



OPTION B
ILLUSTRATION OF STONE FILTER INLET PROTECTION FOR STORM DRAIN UNDER CONSTRUCTION.

Public Service Department
1800 Herring Avenue, / P.O. Box 10
Wilson, North Carolina 27894

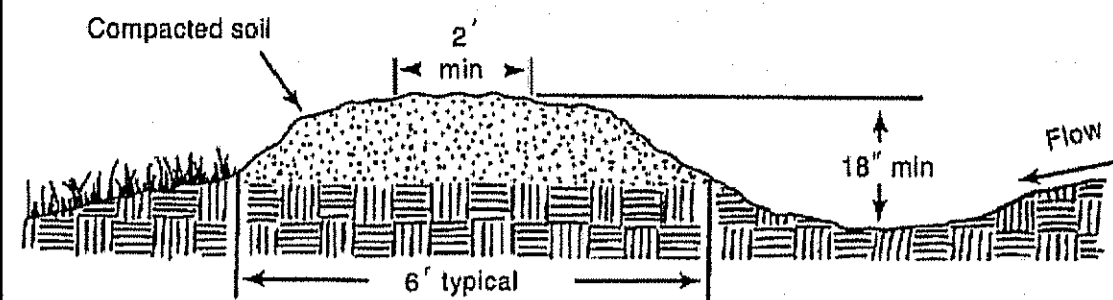
CITY OF WILSON, N.C.

USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY

SCALE: Not To Scale
REVISION DATE: June, 2010
SHEET # 1 of 1

DETAIL # 355.01

MAINTENANCE:
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.



CONSTRUCTION SPECIFICATION:

1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
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 DIKE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

MAINTENANCE:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

TEMPORARY DIVERSIONS
NO SCALE

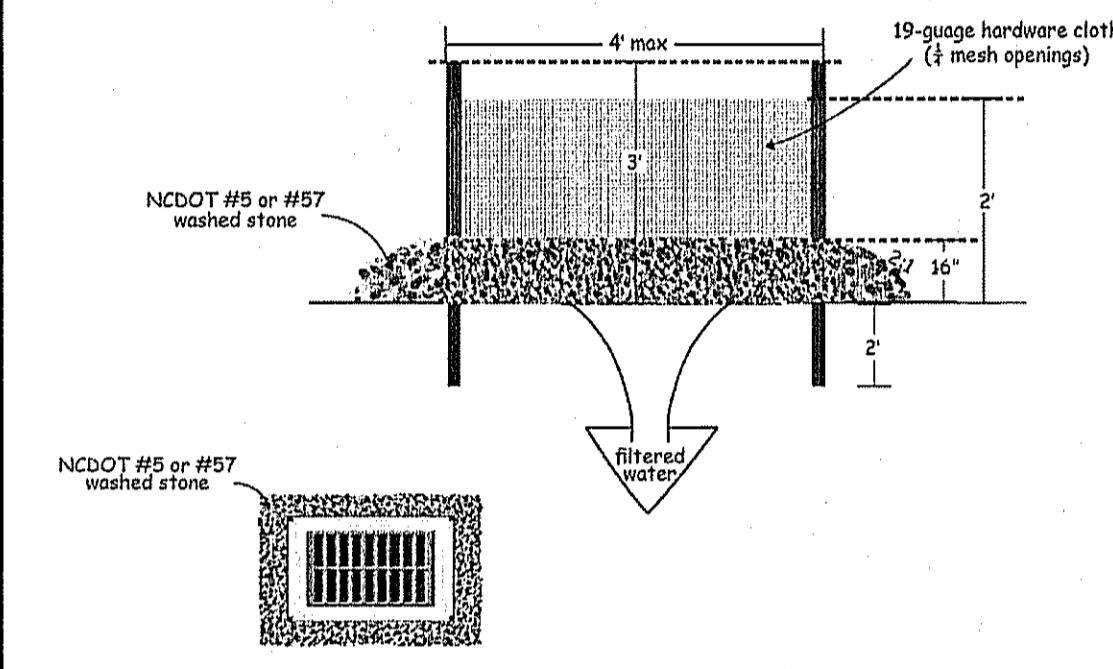


Figure 6.51a Hardware cloth and gravel inlet protection

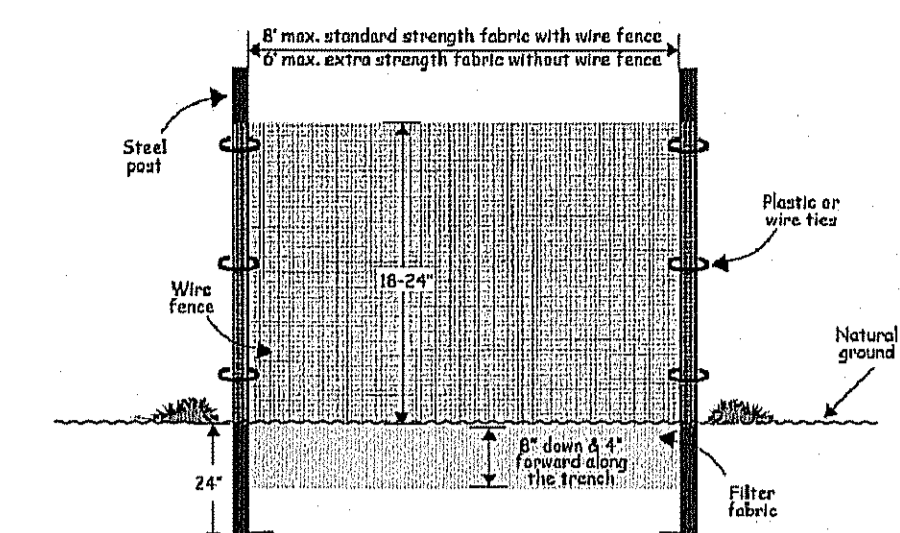
CONSTRUCTION SPECIFICATION:

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POST INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE AND BOTTOM. PLACING A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
4. PLACE A CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 18 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

MAINTENANCE:

INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

TEMPORARY DIVERSIONS
NO SCALE



SILT FENCE DETAIL
NO SCALE

INSTALLATION SPECIFICATIONS

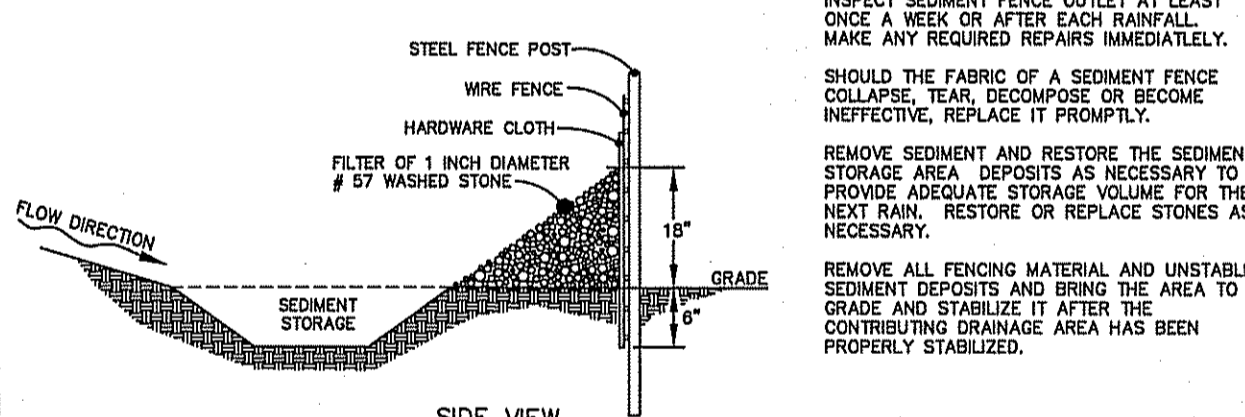
1. THE BASE OF BOTH END POSTS SHOULD BE AT LEAST ONE FOOT HIGHER THAN THE MIDDLE OF THE FENCE. CHECK WITH A LEVEL IF NECESSARY.
2. INSTALL POSTS 4 FEET APART IN CRITICAL AREAS AND 6 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 2 FEET DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENSURING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FENCE.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FABRIC. ATTACH EACH TIE DIAGONALLY AT 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. ALSO, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24 INCHES OF A 36 INCH FABRIC IS ALLOWED ABOVE THE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION.
9. COMPACTION IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF 4 TRIPS.

MAINTENANCE

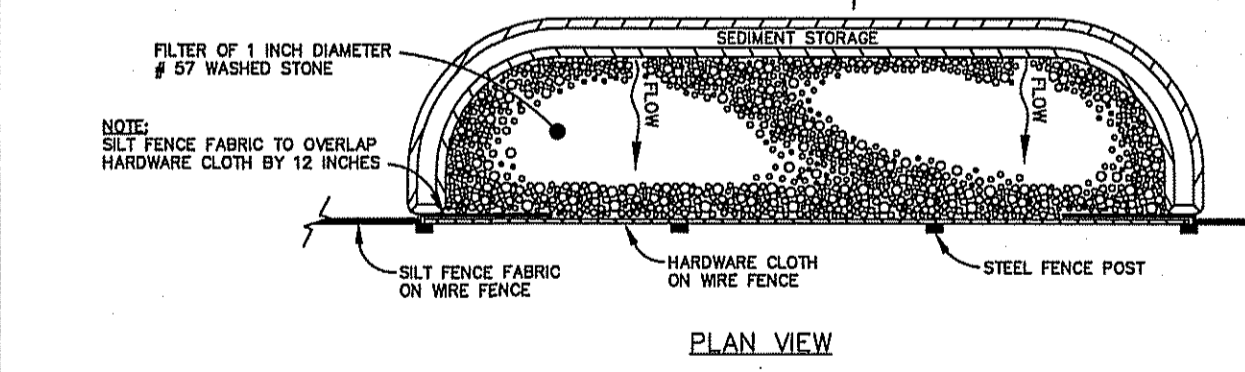
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE PROMPTLY.

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.

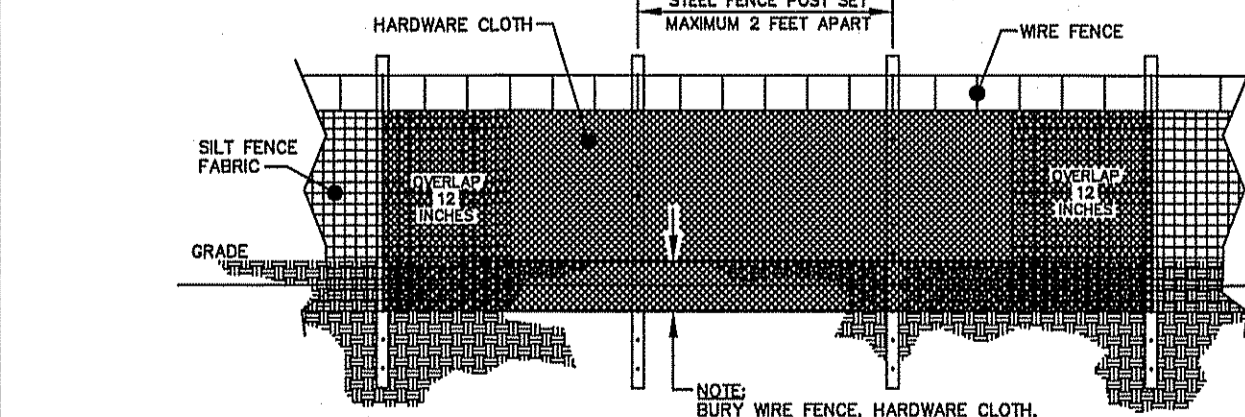
REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



SIDE VIEW

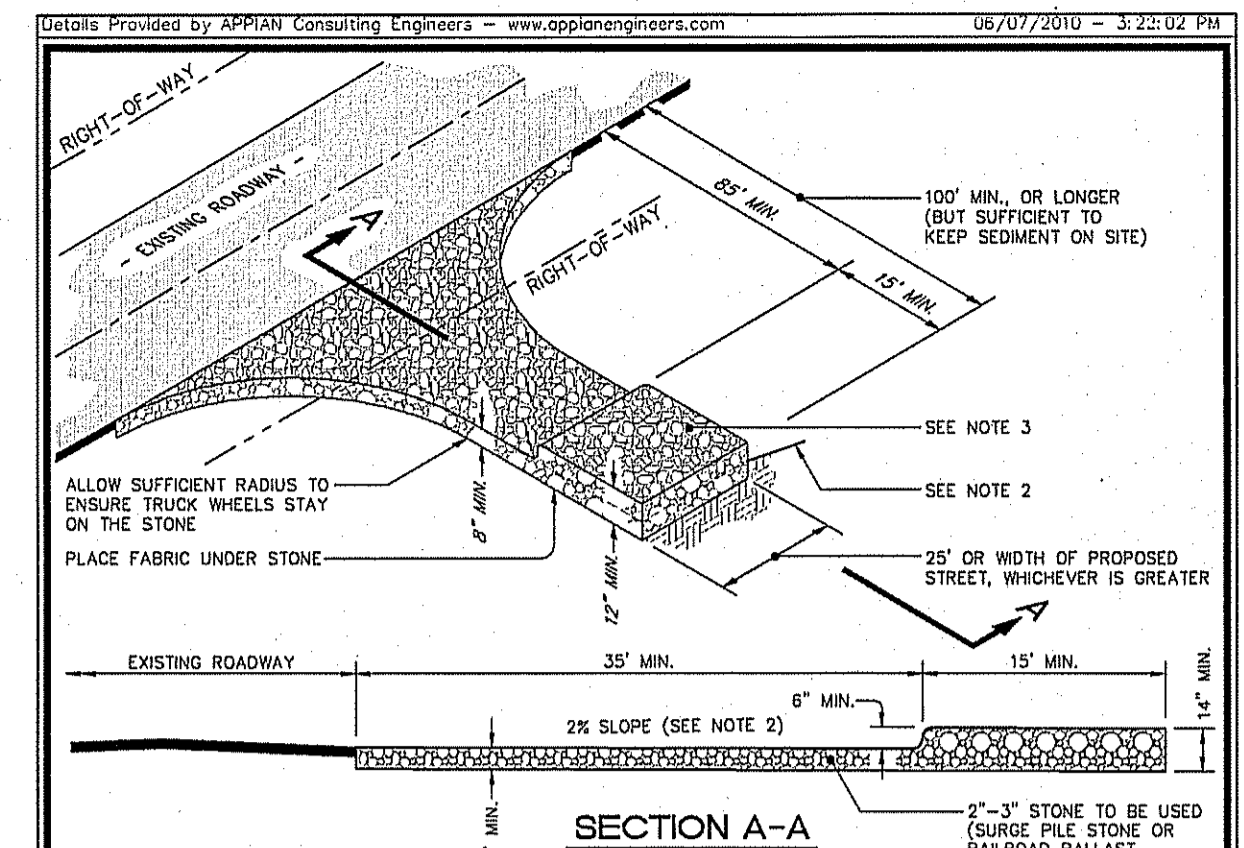


PLAN VIEW



FRONT VIEW

STANDARD SILT FENCE OUTLET
NO SCALE



CONSTRUCTION SPECIFICATIONS:

1. Clear the entrance/exit area of all vegetation, roots, and other objectionable material.
2. Grade the road foundation so that the entrance/exit will have a cross slope.
3. Stone size - Use MSHA size No. 2 (2 1/2" to 1") or AASHTO designation M43, size No. 2 (2 1/2" to 1 1/2"), or No. 4 (Railroad Ballast).
4. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the site onto the public right-of-way. This may require periodic top dressing with additional stone as conditions demand repair and/or cleanout of any measures used to trap sediment. Should mud be tracked or washed onto road, it must be removed immediately.
5. If construction on the site is such that the mud is not removed by the vehicle traveling over the stone, then the tires of the vehicle must be washed before entering the existing roadway. When necessary, wheels shall be cleaned to remove sediment prior to entrance onto public right-of-way. When washing is required, it shall be done on an area stabilized with crush stone which drains to an approved sediment trap or sediment basin. All sediment shall be prevented from entering any storm drain, ditch, or watercourse through use of sand bags, gravel, boards, or other approved methods.
6. Install silt fence or tree protection fence to ensure construction entrance is used.

Public Service Department
1800 Herring Avenue, / P.O. Box 10
Wilson, North Carolina 27894

CITY OF WILSON, N.C.

USE WITH THE CITY OF WILSON STANDARD SPECIFICATIONS ONLY

SCALE: Not To Scale
REVISION DATE: June, 2010
SHEET # 1 of 1

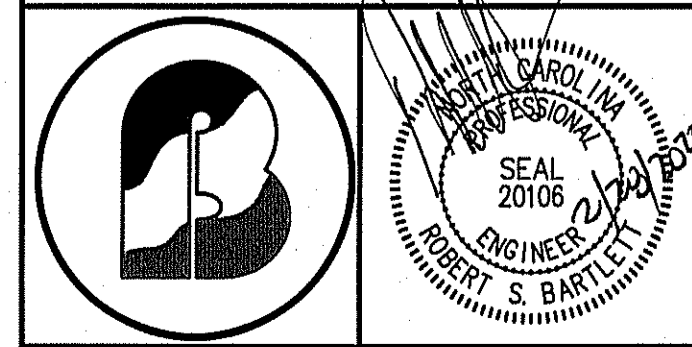
DETAIL # 356.01

STABILIZED CONSTRUCTION ENTRANCE DETAIL

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
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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.



BARTLETT
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FAX: (252) 399-0804
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DETAILS

TOISNOT PARK
- ENTRANCE IMPROVEMENTS -

DATE: MARCH 2020	PROJECT: 19-480
SCALE(HORZ): N/A	CLIENT CODE: WC
SCALE(VERT): N/A	CADFILE: 19480SE1
REVISIONS:	FIELD BOOK: 348
	DRAWN BY: LR
	SURVEY BY: DB, JB

CITY OF WILSON	WILSON COUNTY
NORTH CAROLINA	ZONE: RMX/OS
PIN #	SHEET DT1