

SITE VICINITY MAP
NOT TO SCALE

LEGEND

- HAB-1 HAND AUGER SOIL TEST BORING LOCATION (TYP.)

GENERAL NOTES - SITE PLAN:

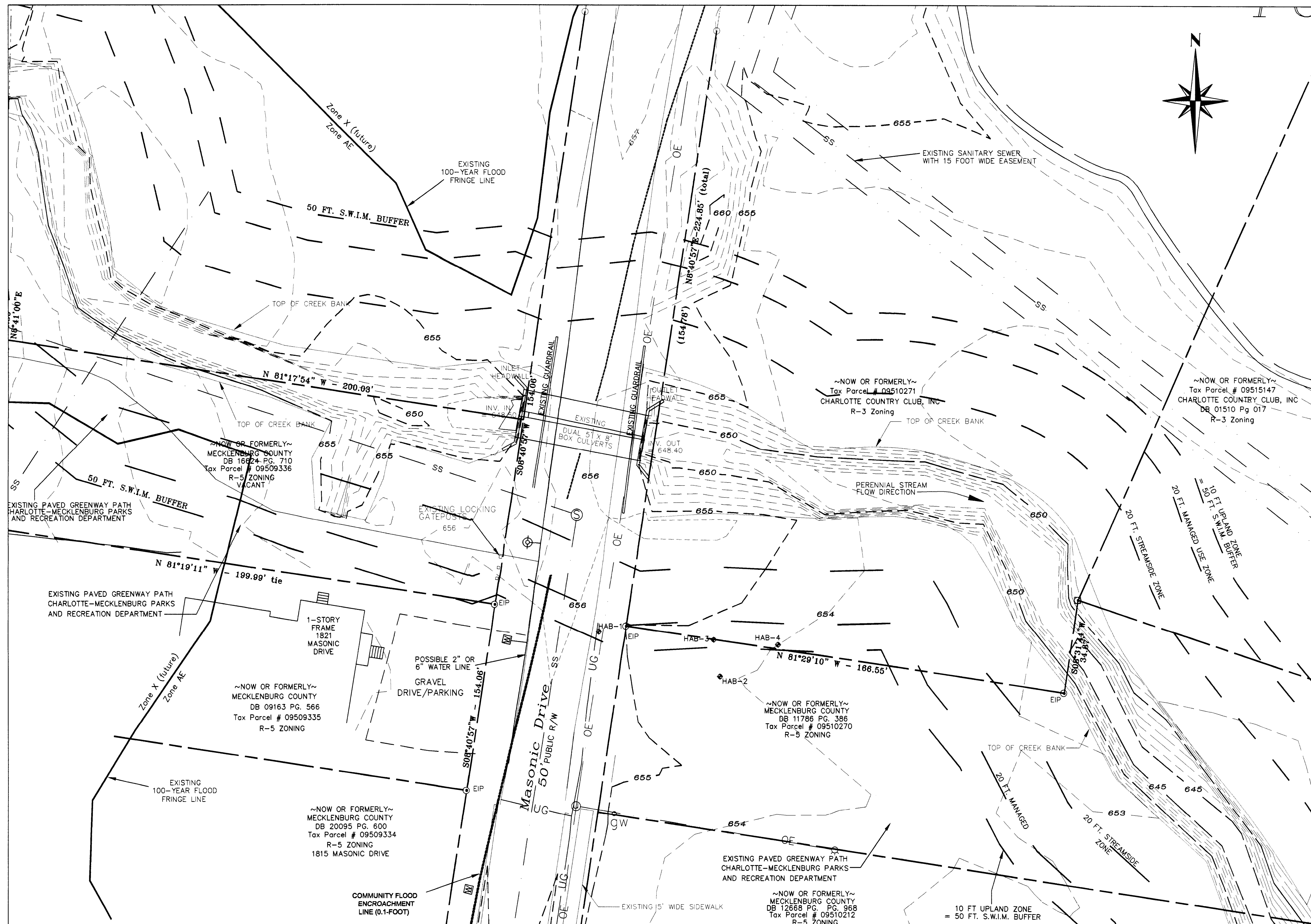
1. SITE TOPOGRAPHIC SURVEY DATA PROVIDED BY A.G. ZOUTEWELLE SURVEYORS
1418 E 5TH ST., CHARLOTTE NORTH CAROLINA 28204, (704) 372-9444.

SURVEYORS LEGEND

- a/c air conditioner
ch. catch basin/drop inlet
ch. chond
con. concrete
fire hydrant
gas meter
gas valve
guy wire anchor
IPF/S iron pipe found/set
IRF iron rebar/pin found
irrig. irrigation control valve
light pole
L.B. curve length & radius
MB.DB record map, deed references
PK/PKS PK Nail found/set
post indicator valve
sanitary sewer manhole
square feet (by coordinates)
storm drain manhole
TBM temporary bench mark
utility pole
water meter
water valve
overhead utility wires
UE underground electric
UG underground gasoline
W water line
X spot elevation

SURVEYORS NOTES

1. Source of title of this property is recorded in Deed Book 3070 Page 498.
Tax I.D. numbers of this property are: 095-093-37, -38, -39, -40, -41, -42, and -43.
See plats recorded in Map Book 39, Page 300, Map Book 45, Page 99 and Map Book 6, Page 583.
2. This survey does not reflect a complete title examination which may reveal restrictions, easements or other matters of title.
3. This property is zoned R-5 (Residential District) as per Mecklenburg County GIS.
This survey does not reflect a zoning analysis. The following are standard zoning setbacks for residential uses:
Min. Front setback - 20'
Min. Sideyard - 5'
Min. Rearyard - 35'
Min. Lot width - 50' (for Residential dwellings)
Min. Lot area - 6,000 s.f. (for Detached dwellings)
Max. Height - 40'
4. Additional buffers may be required for non-residential uses adjacent to residentially zoned or used land.
Development of this property is subject to the review and approval of the City of Charlotte.
5. This survey does not reflect complete utility locations. Contact The NC-ONE Call Utility
Locating Center at 1-800-682-4343 before any digging or excavation is begun.
6. Existing 100-year Base Flood Elevation for this property, per FIRM, is 658.3' (NAVD 1988).
Future (local) 100-year Base Flood Elevation is 665.1' (NAVD 1988).
Refer to Firm Panel 3719C 0189E dated 2-4-2004.
7. Flood Fringe and Flood Encroachment lines shown hereon are graphically scaled from Firm Map.
8. Flood Protection Elevation (Minimum Finish Floor) is 666.1' (NAVD 1988).
9. Portions of this property are located within SWM Buffer areas as per the Mecklenburg County GIS.
10. The stream along the southerly portion of the property is classified as a "Perennial Stream - Jurisdictional Waters of the U. S." along the southerly portion of the property is classified as a "Perennial Stream - Jurisdictional Waters of the U. S." There are no jurisdictional wetland areas outside of the stream bed and bank areas of said stream.
Wetland information per Carolina Wetland Services, 550 E. Westinghouse Blvd., Charlotte, N.C. 28273.
Phone: 704-527-1177; Fax: 704-527-1133; Contacts: Mr. Greg C. Antemann and Mr. Walt L. Jenkins.
11. Areas of property (by coordinates): Tract A: 146,860 s.f. (3.3719 acres) (this area includes the area to be recombined with Mecklenburg County Tax Parcel 09510270).
Masonic Drive (as proposed for abandonment): 35,790 s.f. (0.8126 acre).
Tract B: 135,210 s.f. (3.1040 acres).
12. This map reflects a recombination of parcels within the City of Charlotte which has a subdivision ordinance.

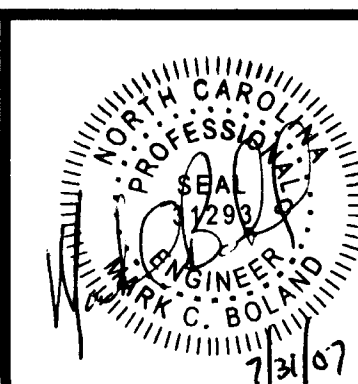


SITE PLAN - EXISTING CONDITIONS

1" = 20'

- ☐ BASED ON INFORMATION PROVIDED BY OTHERS
☒ BASED ON SITE TOPOGRAPHIC SURVEY
☐ PRELIMINARY
☒ FINAL DRAFT

REVISIONS		
REV.	DATE	COMMENTS
1	7/27/07	SECOND SUBMISSION



SHIELD
ENGINEERING, INC.

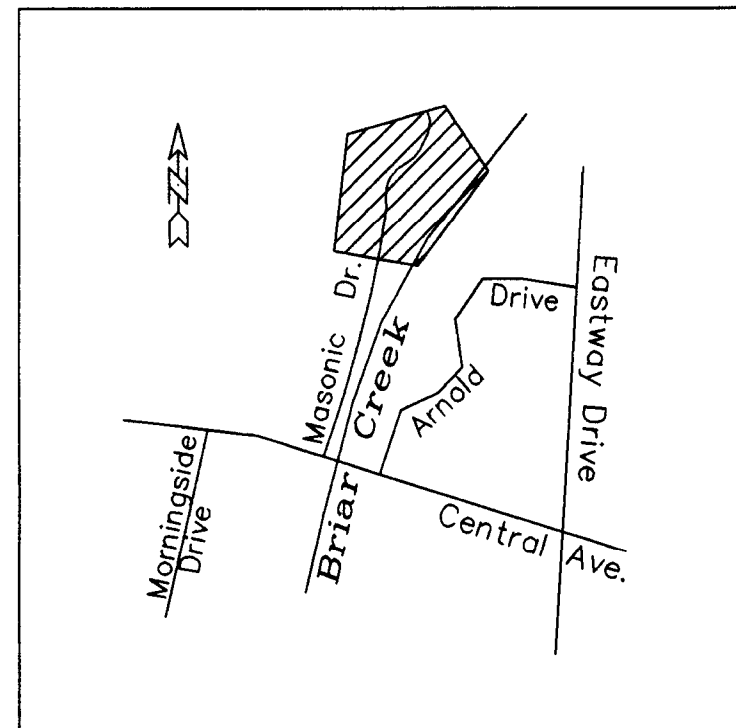
4301 TAGGART CREEK ROAD
CHARLOTTE, NC 28208
704-394-6913
704-394-6968 FAX
www.shieldengineering.com

PROJECT#: 1060169-01
DATE: JULY 27, 2007
PROJECT MGR: JHPjr
DESIGNED BY: JHPjr
DRAWN BY: RBS
SCALE: 1" = 20'

CHARLOTTE COUNTRY CLUB
MASONIC DRIVE ROAD CLOSURE
AND TRAFFIC TURNAROUND

SITE PLAN
EXISTING CONDITIONS

C-1



SITE VICINITY MAP
NOT TO SCALE

LEGEND

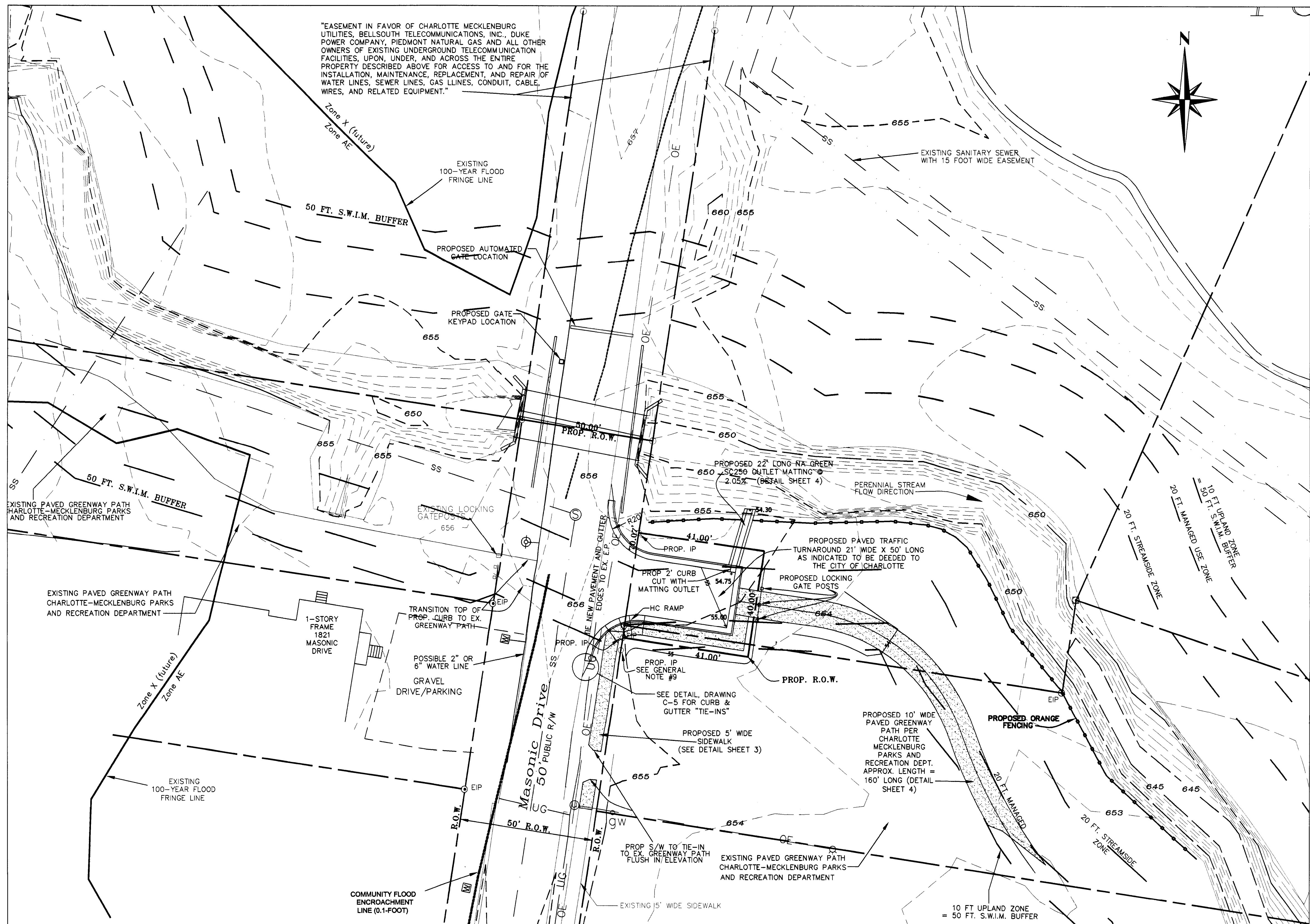
- HAB-1 HAND AUGER SOIL TEST BORING LOCATION (TYP.)
- EXISTING GREENWAY AND SIDEWALK
- PROPOSED GREENWAY AND TRAFFIC TURNAROUND
- TOP OF CREEK BANK
- PROPERTY BOUNDARY
- SILT FENCE
- ORANGE FABRIC FENCING

GENERAL NOTES

- Coordinate all curb and street grades in intersection with Inspector.
- All road improvements at Masonic Drive are to be coordinated with the City of Charlotte Engineering Department prior to construction.
- Approval of this plan is not an authorization to grade adjacent properties. When field conditions warrant off-site grading, permission must be obtained from the affected property owners.
- In order to ensure proper drainage, keep a minimum of 0.5% slope on the curb.
- Subsurface drainage facilities may be required in the street right-of-way if deemed necessary by the inspector.
- The Developer shall maintain each stream, creek, or backwash channel in an unobstructed state and shall remove from the channel and banks of the stream all debris, logs, timber, junk and other accumulations.
- Any construction or use within the areas delineated as Community Encroachment (0.1') Floodway Encroachment Area is subject to the restrictions imposed by the Floodway Regulations of the City of Charlotte and Mecklenburg County.
- Non-standard items (ie: pavers, irrigation systems, etc.) in the right-of-way require a Right-of-Way Encroachment Agreement with the (Charlotte Department of Transportation/North Carolina Department of Transportation) before installation.
- An Iron Pin or other acceptable permanent property corner shall be set where the outside boundary of the buffer intersects the Masonic Drive ROW.

CONSTRUCTION SEQUENCE

- Obtain Grading/Erosion Control plan approval from the City of Charlotte Engineering Department.
- Set up an on-site pre-construction conference with Erosion Control Inspector of the City of Charlotte Engineering Department to discuss erosion control measures. Failure to schedule such conference 48 hours prior to any land disturbing activity is a violation of Chapter 17 of the City Code and is subject to fine.
- Install silt fence, inlet protection, sediment traps, diversion ditches, tree protection, and other measures as shown on plans, clearing only as necessary to install these devices.
- Call for on-site inspection by Inspector.
- The Contractor shall diligently and continuously maintain all erosion control devices and structures throughout construction of this project.
- For phased erosion control plans, Contractor shall meet with Erosion Control Inspector prior to commencing with each phase of erosion control measures.
- Stabilize site as areas are brought to finished grade.
- Coordinate with Erosion Control Inspector prior to removal of erosion control measures.
- All erosion control measures shall be constructed in accordance with the N. C. Erosion and Sediment Control Planning and Design Manual, U. S. Dept. of Agriculture, City of Charlotte Erosion Control Ordinance, and the Charlotte-Mecklenburg Land Development Standards.

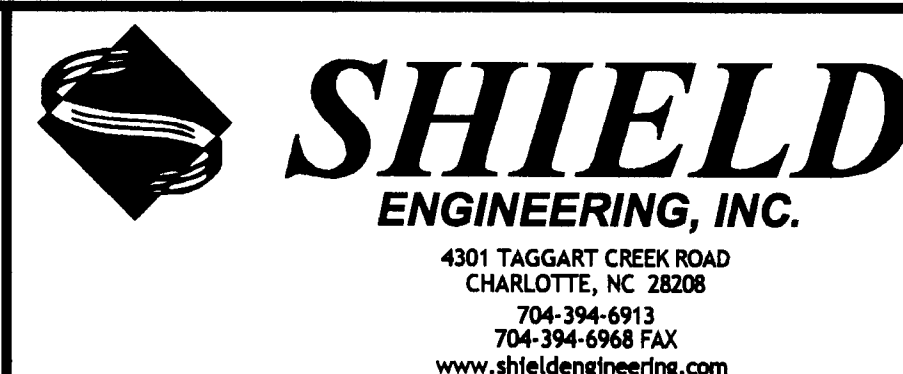
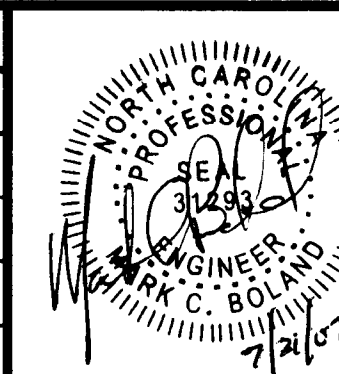


GRADING PLAN - PROPOSED CONDITIONS

1" = 20'

- ☐ BASED ON INFORMATION PROVIDED BY OTHERS
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- ☐ PRELIMINARY
- ☒ FINAL DRAFT

REVISIONS		
REV.	DATE	COMMENTS
1	7/27/07	SECOND SUBMISSION

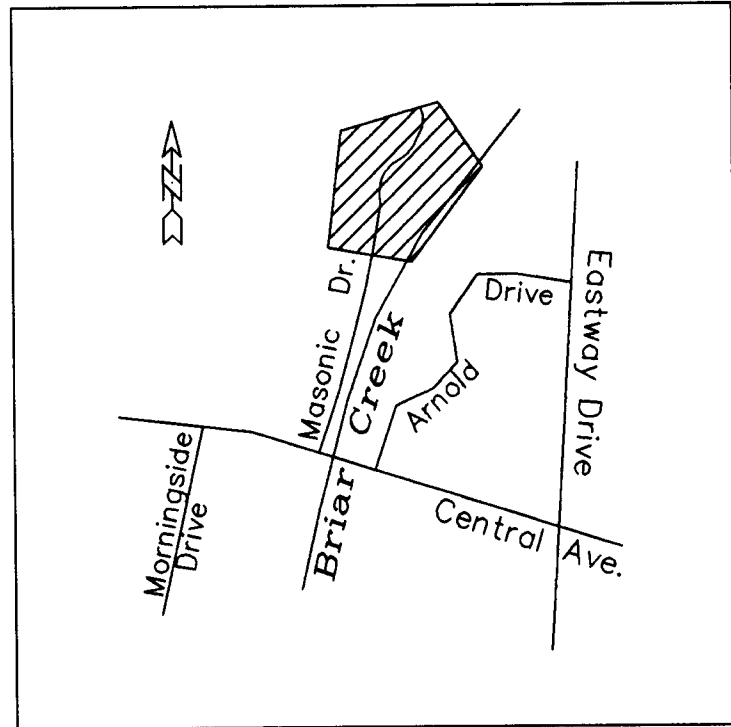


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DATE: JULY 27, 2007
PROJECT MGR: JHPJr
DESIGNED BY: JHPJr
DRAWN BY: RBS
SCALE: 1" = 20'

CHARLOTTE COUNTRY CLUB
MASONIC DRIVE ROAD CLOSURE
AND TRAFFIC TURNAROUND

GRADING PLAN
PROPOSED CONDITIONS

C-2



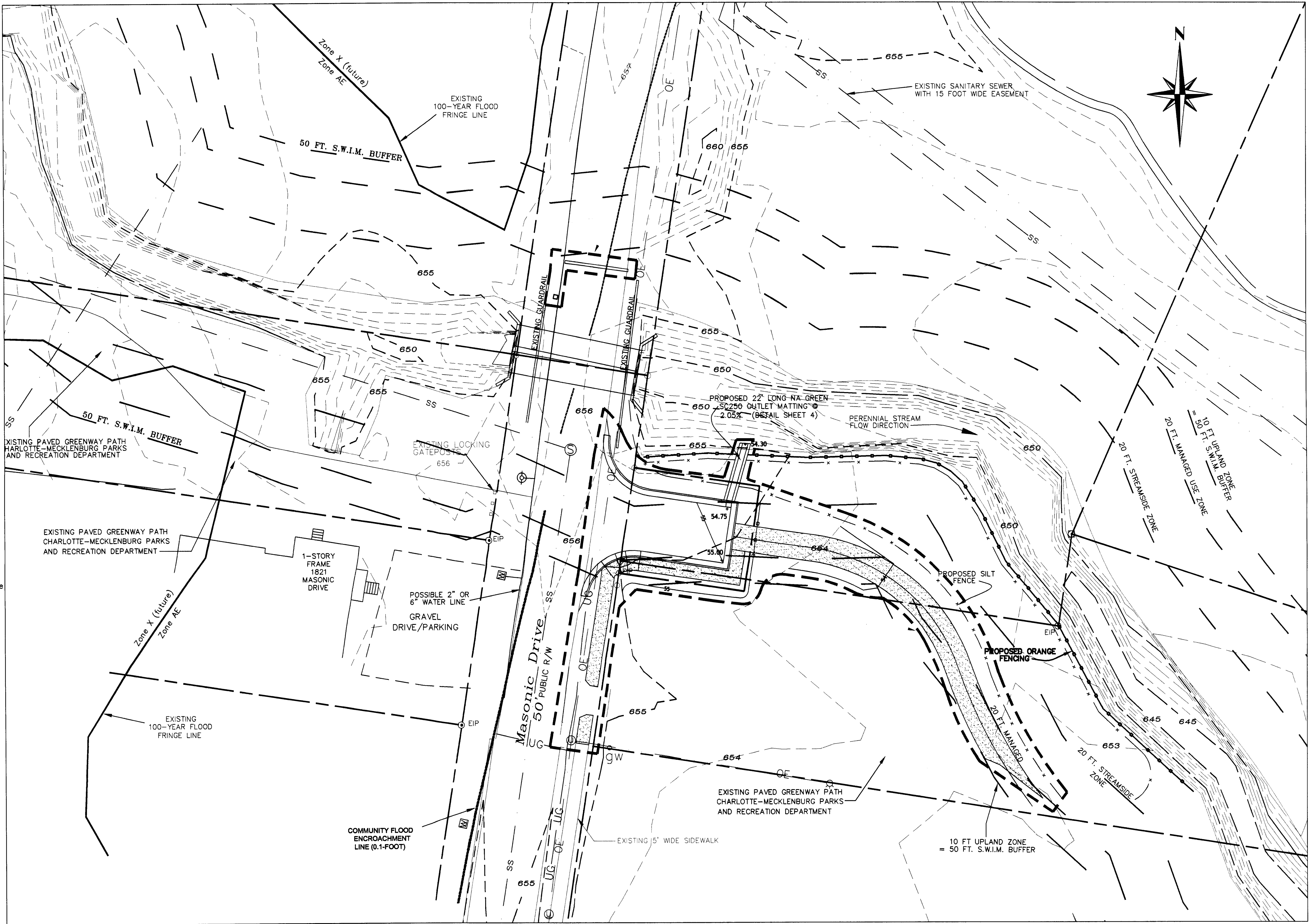
SITE VICINITY MAP
NOT TO SCALE

LEGEND

- HAB-1 HAND AUGER SOIL TEST BORING LOCATION (TYP.)
- EXISTING GREENWAY AND SIDEWALK
- PROPOSED GREENWAY AND TRAFFIC TURNAROUND
- TOP OF CREEK BANK
- PROPERTY BOUNDARY
- SILT FENCE
- LIMITS OF DISTURBANCE
- ORANGE FABRIC FENCING (See Note #8 Below)
- PROPOSED CLEARING LIMITS

EROSION CONTROL NOTES

- All "Std." numbers refer to the Charlotte Land Development Standards Manual.
- On-site burial pits require an on-site demolition landfill permit from the Zoning Administrator.
- Any grading beyond the denuded limits shown on the plan is a violation of the City/County Erosion control Ordinance and is subject to a fine.
- Grading more than one acre without an approved Erosion Control Plan is a violation of the City/County Erosion Control Ordinance and is subject to a fine.
- All areas must be seeded and mulched within 21 calendar days. Refer to Erosion Control Ordinance for additional requirements.
- Additional measures to control erosion and sediment may be required by a representative of the City Engineering Department.
- Slopes shall be graded no steeper than 2:1. Fill slopes greater than 10' require adequate terracing [CMLDS #30.16].
- High Visibility Orange Safety Fencing shall be used in areas around trees and other natural features on-site that need to be protected.
- Total Estimated Disturbed Acreage = 0.19 Ac.

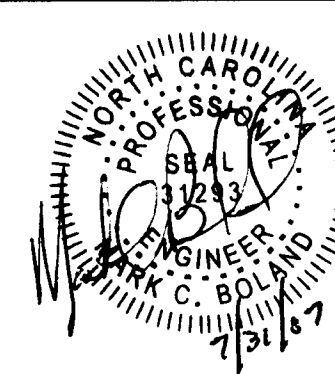


EROSION CONTROL PLAN

1" = 20'

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- ☐ PRELIMINARY
- ☒ FINAL DRAFT

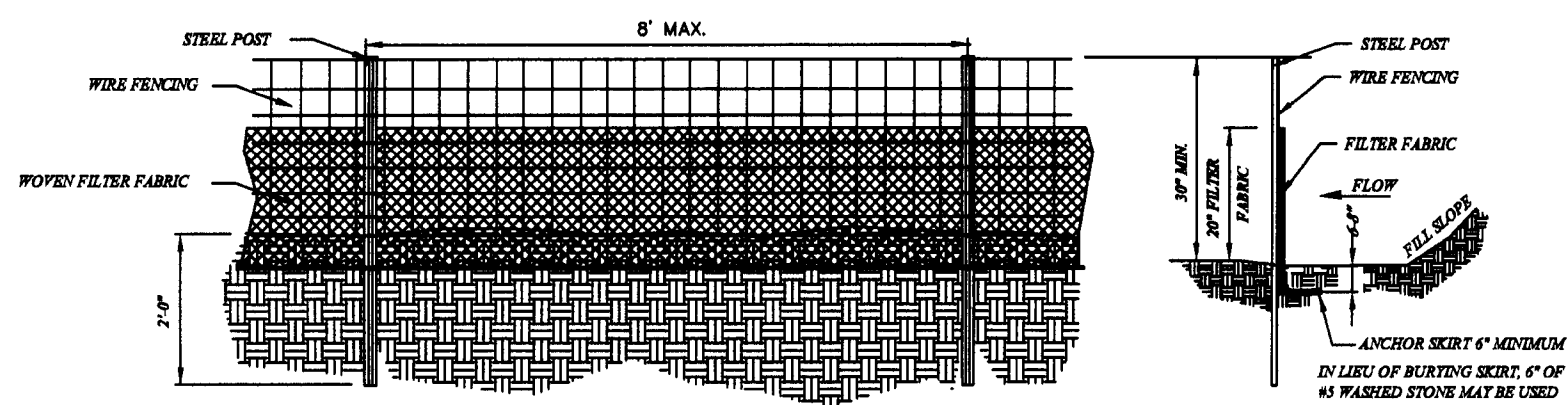
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CHARLOTTE COUNTRY CLUB MASONIC DRIVE ROAD CLOSURE AND TRAFFIC TURNAROUND	
SITE PLAN EROSION CONTROL MEASURES	C-3



GENERAL NOTES:

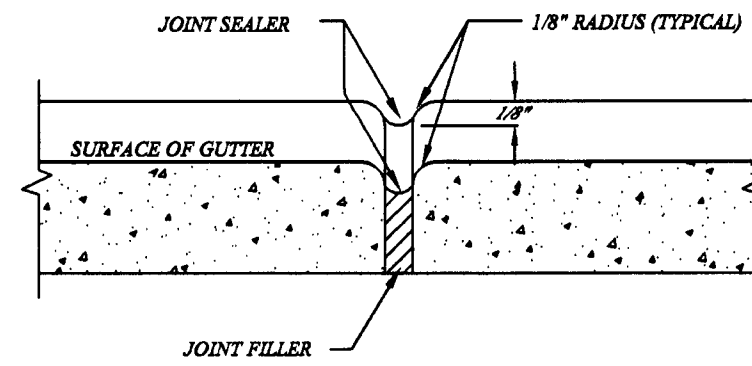
1. FILTER FABRIC FENCE SHALL BE A MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
2. WOVEN FILTER FABRIC BE USED WHERE SILT FENCE IS TO REMAIN FOR A PERIOD OF MORE THAN 30 DAYS.
3. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.
4. WIRE FENCING SHALL BE AT LEAST #10 GAGE WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
5. TURN SILT FENCE UP SLOPE AT ENDS.
6. WIRE MESH SHALL BE MIN. 13 GAGE WITH MAXIMUM 12" OPENINGS.
7. WIRE AND WASHED STONE WILL BE REQUIRED AND NOTED ON PLANS WHEN:
 - A. AT TOE OF SLOPES GREATER THAN 10 FEET VERTICAL (2:1 SLOPE)
 - B. AT DIVIDED LIMITS WHERE AN UNDISTURBED BUFFER IS 50 FEET OR LESS AWAY
8. ORANGE SAFETY FENCE IS REQUIRED AT BACK OF SILT FENCE WHEN GRADING IS ADJACENT TO SWIM BUFFERS, STREAMS OR WETLANDS (REFER TO SWIM BUFFER GUIDELINES). THE COLOR ORANGE IS RESERVED FOR VISUAL IDENTIFICATION OF ENVIRONMENTALLY SENSITIVE AREAS.
9. DRAINAGE AREA CAN NOT BE GREATER THAN 1/4 ACRE PER 100FT OF FENCE.
10. SLOPE LENGTHS CAN NOT EXCEED CRITERIA SHOWN IN TABLE 6.9.2A, NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.
11. DO NOT INSTALL SEDIMENT FENCE ACROSS STREAMS, DITCHES, WATERWAYS OR OTHER AREAS OF CONCENTRATED FLOW.

MAINTENANCE NOTES:

1. FILTER BARRIERS SHALL BE INSPECTED BY THE FINANCIALLY RESPONSIBLE PARTY OR HIS AGENT IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS NEEDED SHALL BE MADE IMMEDIATELY.
2. SHOULD THE FABRIC DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL IS NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED WHEN DEPOSITS REACH APPROX. HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS REMOVED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

HIGH HAZARD TEMPORARY SILT FENCE

NOT TO SCALE



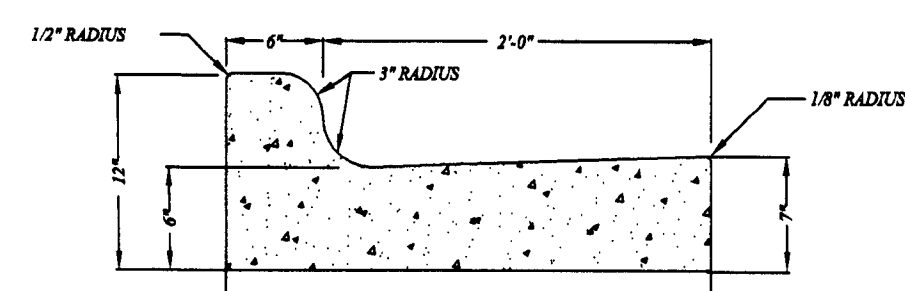
TRANSVERSE EXPANSION JOINT

NOTES:

1. CONTRACTION JOINTS SHALL BE SPACED AT 10-FOOT INTERVALS FOR VALLEY GUTTER. A 10-FOOT SPACING MAY BE USED WHEN A MACHINE IS USED. JOINT SPACING MAY BE ALTERED BY THE CITY ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY 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.
3. ALL EXPANSION JOINTS SHALL BE SPACED AT 90-FOOT INTERVALS AND ADJACENT TO ALL RIGID OBJECTS. JOINTS SHALL MATCH LOCATIONS WITH JOINTS IN ABUTTING SIDEWALK.
4. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 P.S.I. IN 28 DAYS.
5. CURB SHALL BE DEPRESSED AT INTERSECTIONS TO PROVIDE FOR FUTURE ACCESSIBLE RAMPS.
6. TOP 6" OF SUBGRADE BENEATH THE CURB AND GUTTER SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.

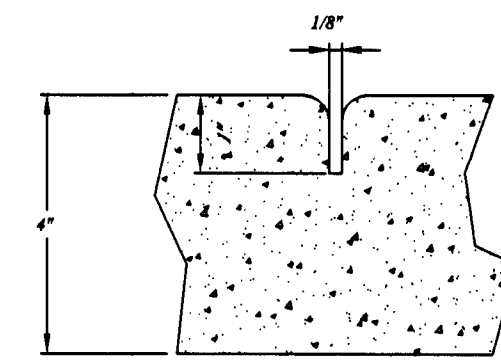
2'-6" STANDARD CURB AND GUTTER

NOT TO SCALE

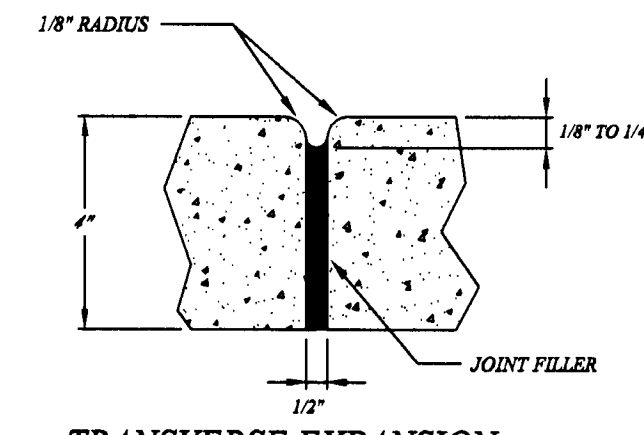


STANDARD 2'-6" CURB AND GUTTER

REF. 10.17A



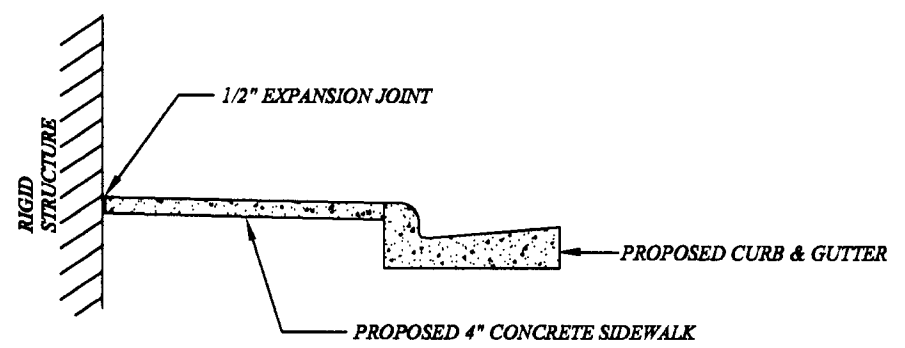
GROOVE JOINT IN SIDEWALK



TRANSVERSE EXPANSION JOINT IN SIDEWALK

GENERAL NOTES:

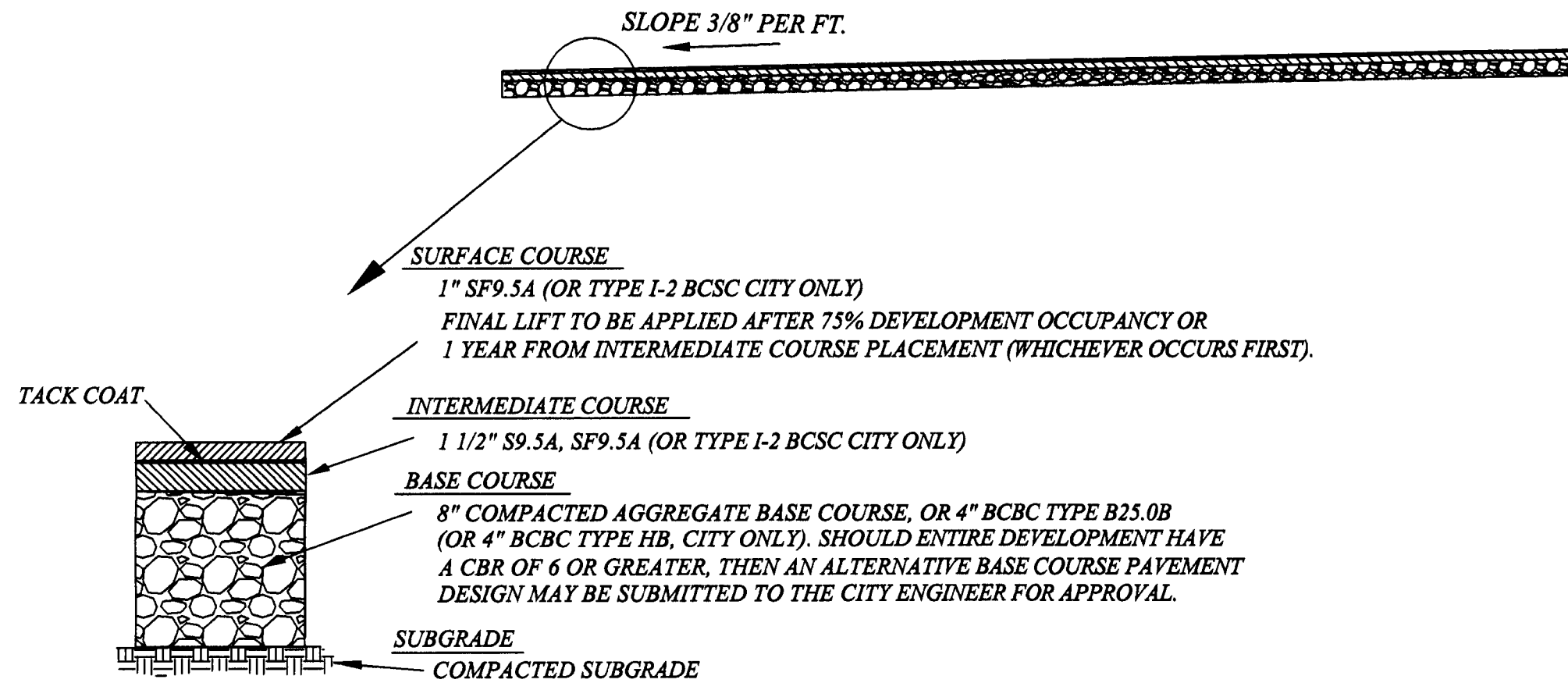
1. A GROOVE JOINT 1" DEEP WITH 1/8" RADII SHALL BE REQUIRED IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 45' INTERVALS NOT TO EXCEED 50' AND MATCHING EXPANSION CONSTRUCTION JOINT IN ADJACENT CURB. A SEALED 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.
2. SIDEWALK AT DRIVEWAY ENTRANCES TO BE 6" THICK.
3. WIDTH OF SIDEWALK ON THOROUGHFARE STREETS SHALL BE A MINIMUM OF 5'. WIDTH OF SIDEWALKS IN THE CENTRAL BUSINESS DISTRICT WILL BE DETERMINED BY THE CDOT.
4. WIDTH OF SIDEWALKS ON NON-THOROUGHFARE STREETS SHALL BE A MINIMUM OF 4'.
5. SIDEWALK TO BE POURED TO END OF RADIUS AT INTERSECTING STREETS.
6. CONCRETE COMPRESSIVE STRENGTH SHALL BE 3600 PSI. IN 28 DAYS.
7. ZONING CONDITIONS MAY REQUIRE ADDITIONAL WIDTH SIDEWALKS WHICH SHALL SUPERSEDE THESE STANDARD DIMENSIONS SHOWN.



DETAILS SHOWING EXPANSION JOINTS IN CONCRETE SIDEWALK

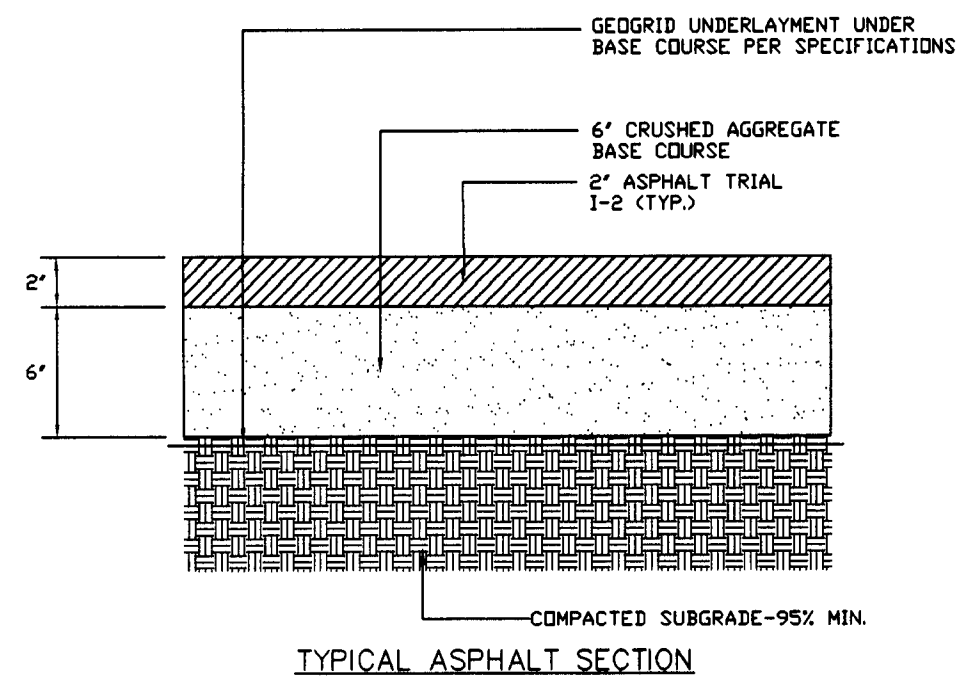
CONCRETE SIDEWALK

NOT TO SCALE

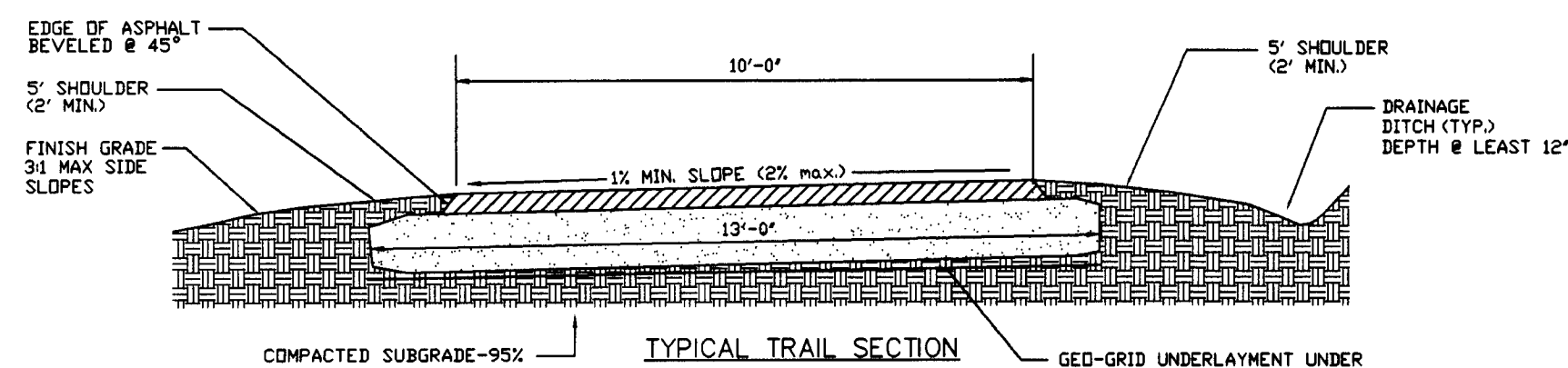


TRAFFIC TURN-AROUND PAVEMENT SECTION

NOT TO SCALE



TYPICAL ASPHALT SECTION



TYPICAL TRAIL SECTION

TYPICAL ASPHALT GREENWAY DETAILS

NOT TO SCALE

NOTE: TYPICAL ASPHALT GREENWAY DETAIL FROM MECKLENBURG COUNTY PARKS AND RECREATION DEPARTMENT.

GENTLE SLOPES

SEEDING MIXTURE	80 lbs/acre of tall fescue	100 lbs/acre tall fescue 30 lbs/acre Sericea lespedeza (unscarified after August 15) 10 lbs/acre Kobe lespedeza
SEEDING DATES	FALL: August 25 - October Late winter: February 15 - April 15 To extend spring seeding into June, add 15 lbs/acre hulled Bermudagrass Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective.	FALL: August 25 - October 15 Late winter: February 15 - April 15 To extend spring seeding into June, add 15 lbs/acre hulled Bermudagrass Overseeding of Kobe lespedeza over fall-seeded tall fescue is very effective.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10-10-10 fertilizer.	Apply lime and fertilizer per soil tests, or 4000 lbs/acre limestone and 1000 lbs/acre 10-10-10 fertilizer.

NOTE 1

Ground Cover-- Protective cover must be established on all disturbed areas within 21 calendar days after land disturbing activity is completed or has temporarily ceased.

NOTE 2

Graded slopes and fills-- Protective cover must be established on all graded slopes and fills within 21 calendar days after a phase of grading is completed or has temporarily ceased.

SEEDING SCHEDULE

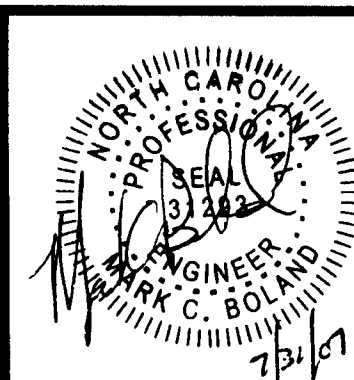
TEMPORARY SEEDING FOR WARM AND COOL SEASON EARLY SUMMER SEASON STEEP SLOPES

SEEDING MIXTURE	40 lbs/acre of German millet 80 lbs/acre of tall fescue	120 lbs/acre Rye (grain) 80 lbs/acre tall fescue
SEEDING DATES	May 1 - August 15 Refertilize if growth is not fully adequate. Apply 4000 lbs/acre straw or equivalent hydroseeding.	October 25 - December 30 Between December 30 - February 15, add 50 lbs/acre of annual Kobe lespedeza. Apply 4000 lbs/acre straw or equivalent hydroseeding.
SEEDING AMENDMENTS	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.	Apply lime and fertilizer per soil tests, or 2000 lbs/acre limestone and 750 lbs/acre 10-10-10 fertilizer.

SEEDING SCHEDULE (SEASONAL)

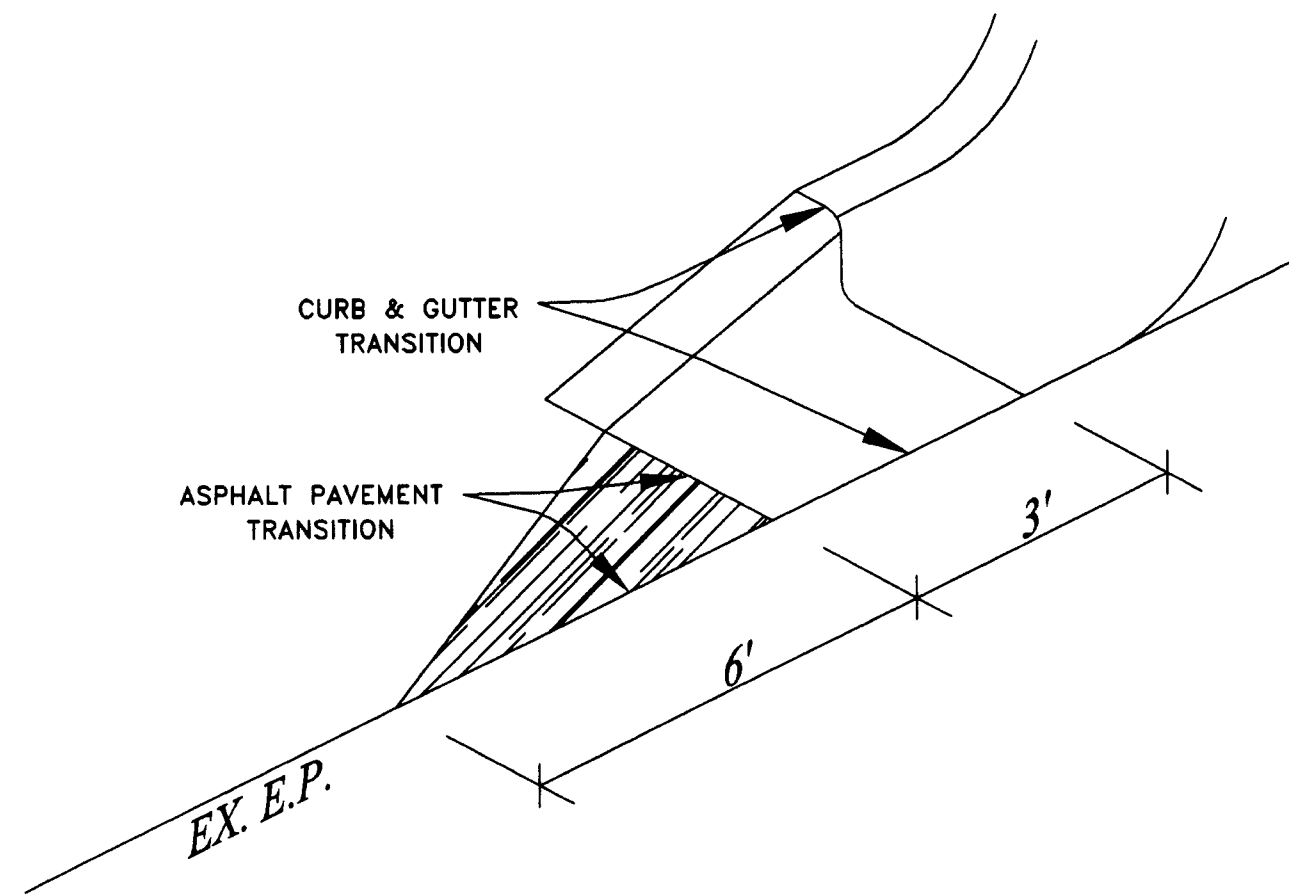
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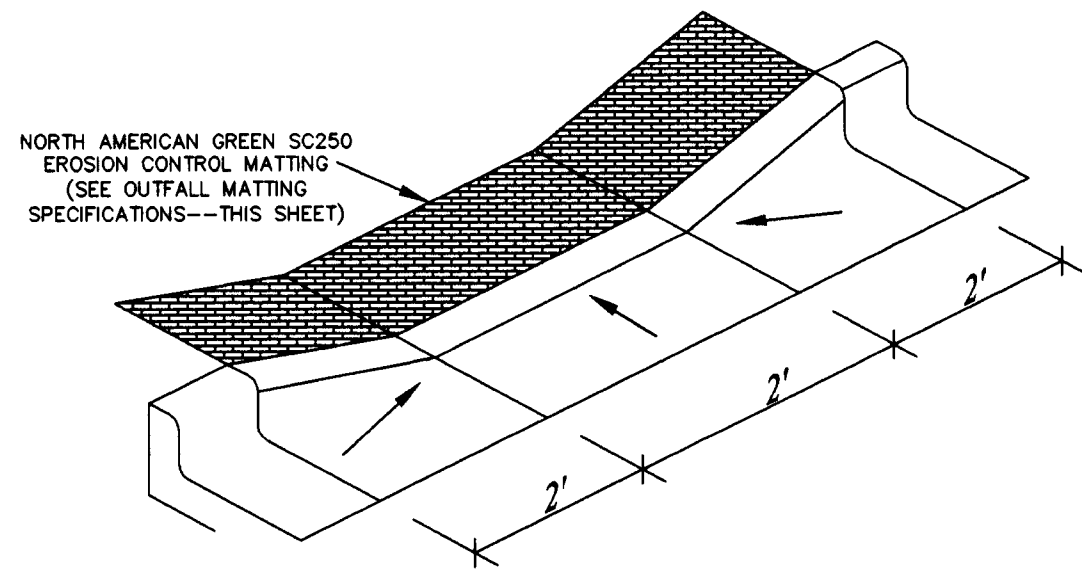


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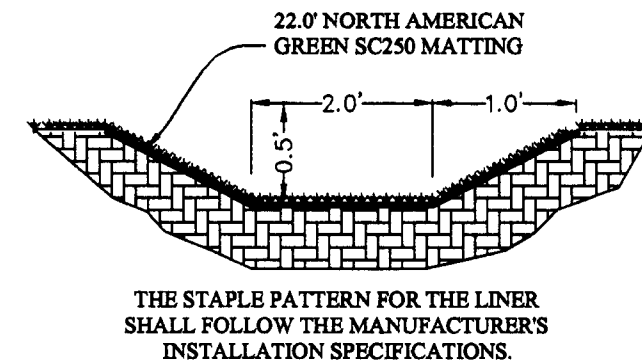
CHARLOTTE COUNTRY CLUB MASONIC DRIVE ROAD CLOSURE AND TRAFFIC TURNAROUND	
DETAILS	C-4



**CURB & GUTTER
TRANSITION (TYP.)**
NOT TO SCALE



STANDARD CURB CUT (TYP.)
NOT TO SCALE



**OUTLET CHANNEL
BELOW CURB CUT**
NOT TO SCALE



PERFORMANCE SPECIFICATION

SC250

The composite turf reinforcement mat (C-TRM) shall be a machine-produced mat of 70% straw/30% coconut fiber matrix incorporated into a permanent three-dimensional turf reinforcement matting.

The matrix shall be evenly distributed across the entire width of the matting and stitch bonded between heavy duty UV stabilized top and bottom nets with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings and an ultra heavy duty UV stabilized, dramatically corrugated (crimped) intermediate netting with 0.50 x 0.50 inch (1.27 x 1.27 cm) openings. The middle corrugated netting shall form prominent closely spaced ridges across the entire width of the mat. The three nettings shall be stitched together on 1.50 inch (3.81 cm) centers with UV stabilized polypropylene thread to form a permanent three-dimensional turf reinforcement matting.

Slope Design - Unvegetated Cover Factors			
Slope Length (L)	Slope Gradient (S)		
	≤ 3:1	3:1-2:1	≥ 2:1
≤ 20 ft (6 m)	0.0010	0.0209	0.0507
20 - 50 ft	0.0081	0.0266	0.0574
≥ 50 ft (15.2 m)	0.0455	0.0555	0.081

Channel Design Data			
Roughness Coefficients - Unvegetated		Maximum Permissible Shear Stress*	
Flow Depth	Manning 'n'	Short Duration	Long Duration
≤ 0.50 ft (0.15 m)	0.040	Phase 1 UNVEGETATED 3.0 lbs/ft ² (144 Pa)	2.5 lbs/ft ² (120 Pa)
0.50 - 2.00 ft	0.040-0.012	Phase 2 PARTIALLY VEGETATED 8.0 lbs/ft ² (384 Pa)	8.0 lbs/ft ² (384 Pa)
≥ 2.00 ft (0.60 m)	0.011	Phase 3 FULLY VEGETATED 10.0 lbs/ft ² (480 Pa)	8.0 lbs/ft ² (384 Pa)

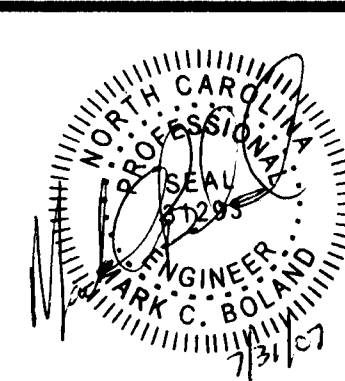
Approximate Permissible Flow Velocity	
Unvegetated = 9.5 ft/s (2.9 m/s)	
Vegetated = 15 ft/s (4.6 m/s)	

Values are approximate, precise values obtained from ECMDSS.*
*Performance values obtained through third party testing at the Texas Transportation Institute, Colorado State University, and/or Utah State University based on soil loss failure criteria not exceeding 0.50 inches (1.27 cm).

OUTFALL MATTING SPECIFICATIONS

- ☐ BASED ON INFORMATION PROVIDED BY OTHERS
- ☒ BASED ON SITE TOPOGRAPHIC SURVEY
- ☐ PRELIMINARY
- ☒ FINAL DRAFT

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DETAILS	C-5