

	REQUIRED	PROPOSED
MIN. LOT AREA:	17,000 SF	126,176 SF
MIN. LOT FRONTAGE	64 FT	>64 FT
MIN. LOT WIDTH	80 FT	>80 FT
MAX. BUILDING HEIGHT	29 FT (PRIMARY) 40 FT (SECONDARY)	<29 FT (PRIMARY) <36 FT (EXISTING)
MAX. FLOOR AREA RATIO	EXISTING	EXISTING
MAX. LOT COVERAGE	(0.7)(138,794)=97,156 SF	28,234 SF (22.38% IMPERVIOUS)
BUILDING SETBACK		
MIN. FRONT STREET YARD SETBACK	28 FT	41.69 FT (MIN. EXIST.)
MIN. SIDE YARD SETBACK	14 FT	N/A
MIN. SOLAR (NORTHERN REAR) YARD SETBACK	17 FT	93.1 FT (EXIST.)
BUFFER YARD SETBACK		
MIN. FRONT YARD SETBACK	N/A	N/A
MIN. SIDE YARD SETBACK	20 FT	20 FT
MIN. REAR YARD SETBACK	N/A	N/A
VEHICLE PARKING		
VEHICLE PARKING	36 (EXISTING)	36 (EXISTING)
BICYCLE PARKING		
BICYCLE PARKING	8	8
TOTAL IMPERVIOUS AREA (OF GLA)		
IMPERVIOUS AREA INCREASE	97,156 SF MAX./25,850 SF (EXISTING)	28,234 SF (20.34%)
TOTAL LAND DISTURBANCE AREA		7,721 SF (5.61% PROPOSED) 20,144 SF (15.97% TOTAL)
SLOPE CATEGORY		
	DELINEATED AREAS	DISTURBED AREAS
0% TO 10%	66,800 SF (52.9%)	3,962 SF (3.13%)
10.01% TO 15%	38,014 SF (30.2%)	1,631 SF (1.27%)
15.01% TO 25%	12,403 SF (9.8%)	1,533 SF (1.19%)
25.01% & GREATER	8,959 SF (7.1%)	595 SF (0.46%)
GROSS LAND AREA (GLA)	126,176 sf x 1.10 = 138,794 sf	

ST. THOMAS MORE - SOUTH CAMPUS - PHASE I

ADMINISTRATIVE ZONING COMPLIANCE PERMIT PLANS

REDEVELOPMENT OF SOUTH CAMPUS

632 LAUREL HILL ROAD, CHAPEL HILL, N.C.
CHAPEL HILL, ORANGE COUNTY, NORTH CAROLINA

2018-07-31

REVISED: 2018-12-17

PREPARED FOR:

OWNER/DEVELOPER

THE CATHOLIC COMMUNITY OF ST. THOMAS MORE

940 CARMICHAEL STREET
CHAPEL HILL, NC 27514

SHEET LIST TABLE				
SHEET	PAGE	DESCRIPTION	DATE SUBMITTED	DATE REVISED
CS0001	1	COVER SHEET	7/31/2018	11/9/2018
CS0002	2	GENERAL NOTES AND LEGEND	7/31/2018	11/9/2018
CS0201	3	EXISTING CONDITIONS	7/31/2018	11/9/2018
CS0202	4	SLOPE ANALYSIS MAP	7/31/2018	11/9/2018
CS0501	5	DEMOLITION PLAN	7/31/2018	11/9/2018
CS1001	6	SITE PLAN	7/31/2018	11/9/2018
CS1501	7	GRADING & DRAINAGE PLAN	7/31/2018	11/9/2018
CS2001	8	LANDSCAPE PLAN	7/31/2018	11/9/2018
CS6002	9	SITE DETAILS	7/31/2018	11/9/2018
CS6061	10	LANDSCAPE DETAILS		11/9/2018
CS8001	11	EROSION CONTROL PLAN	7/31/2018	11/9/2018
CS8501	12	EROSION & SEDIMENT CONTROL DETAILS	7/31/2018	11/9/2018



Zoning Approved Plan Set
12 pages
01/11/2019
Michael Sudol



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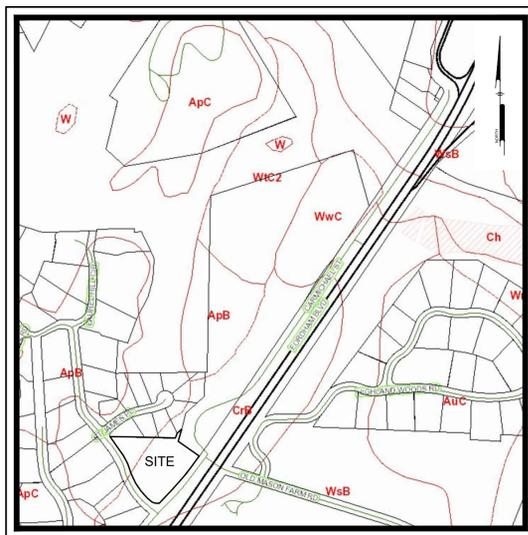
ST. THOMAS MORE - SOUTH CAMPUS - PHASE I
632 LAUREL HILL ROAD
CHAPEL HILL, NC 27514
COVER SHEET
THE CATHOLIC COMMUNITY OF ST. THOMAS MORE
940 CARMICHAEL STREET
CHAPEL HILL, NC 27514

NO.	DATE	REVISIONS	BY
3	12/17/2018	Revised Per Chapel Hill Comments Dated 12/11/18	CJJ
2	11/09/2018	Revised Per Chapel Hill Comments	CJJ
1	10/12/2018	Revised Per Chapel Hill Comments	CJJ

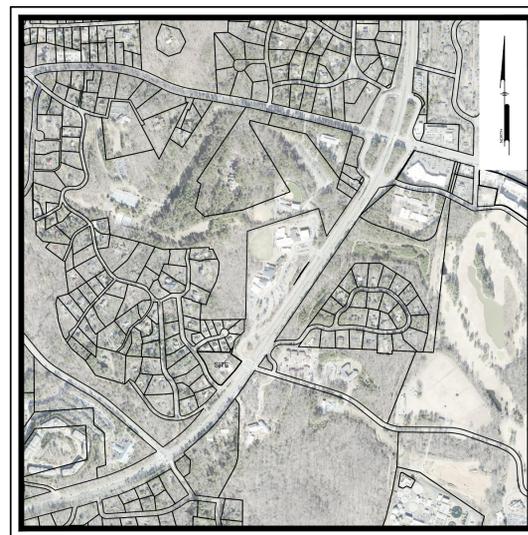
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PROJECT	TMCC1701
DATE	2018-07-31
DRAWING SCALE	AS SHOWN
DRAWN BY	CJJ
APPROVED BY	PCB

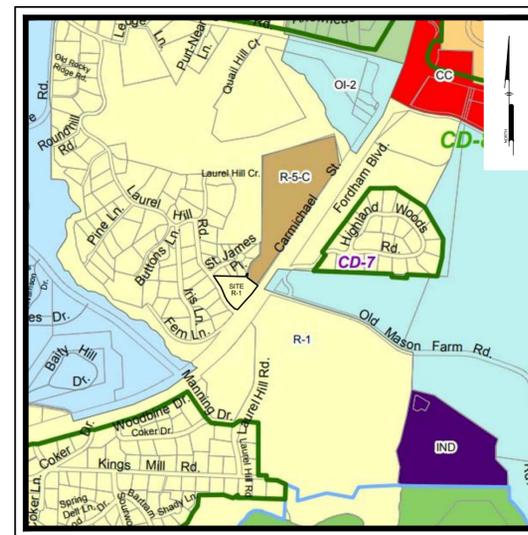
CS0001
SHEET 1 OF 12



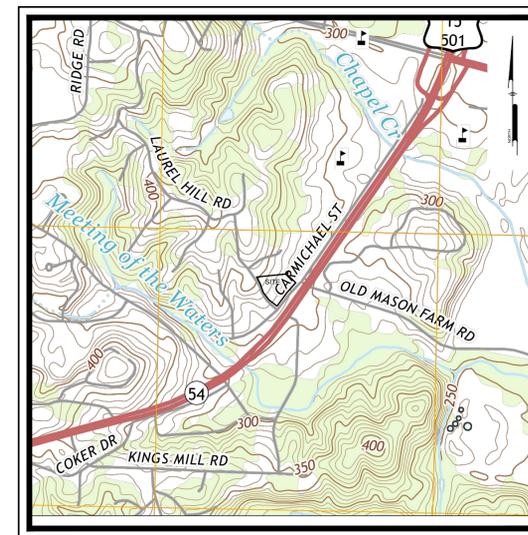
SOILS MAP
Scale: 1" = 500'



LOCATION MAP
Scale: 1" = 1000'



ZONING MAP
Scale: 1" = 1,000'



USGS MAP
Scale: 1" = 1,000'

PREPARED BY:
PENNONI ASSOCIATES INC.



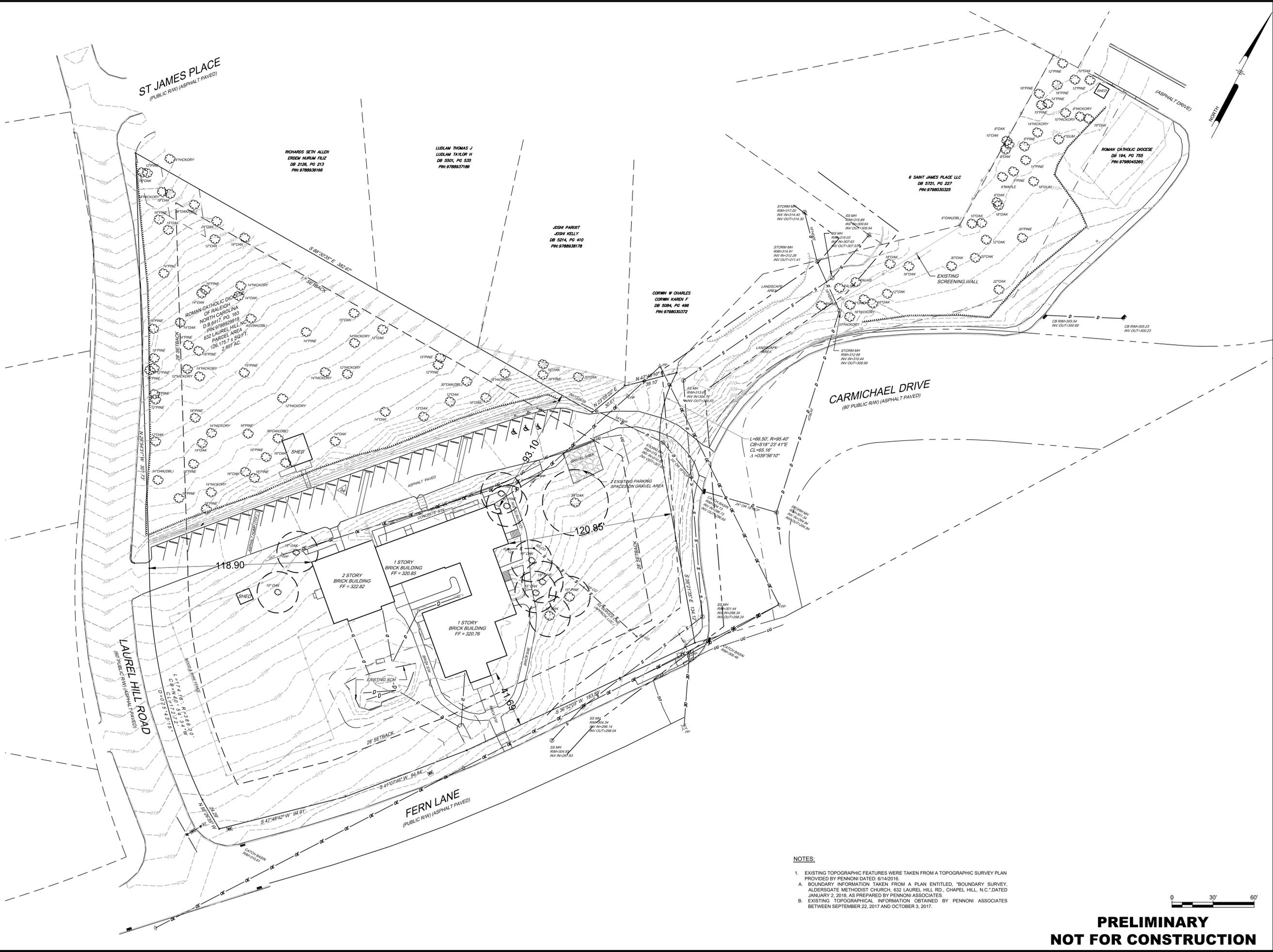
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F 919.493.6548

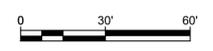


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 PLOTTED: 10/17/2018 11:12 PM BY: C.J.J. JMW
 PLOT STYLE: Pennoni.rct
 PROJECT STATUS: REDEVELOPMENT OF UNITED METHODIST CHURCH SITE



- NOTES:**
- EXISTING TOPOGRAPHIC FEATURES WERE TAKEN FROM A TOPOGRAPHIC SURVEY PLAN PROVIDED BY PENNONI DATED: 6/14/2016.
 - BOUNDARY INFORMATION TAKEN FROM A PLAN ENTITLED, "BOUNDARY SURVEY, ALDERSGATE METHODIST CHURCH, 632 LAUREL HILL RD., CHAPEL HILL, N.C.", DATED JANUARY 2, 2016, AS PREPARED BY PENNONI ASSOCIATES.
 - EXISTING TOPOGRAPHICAL INFORMATION OBTAINED BY PENNONI ASSOCIATES BETWEEN SEPTEMBER 22, 2017 AND OCTOBER 3, 2017.



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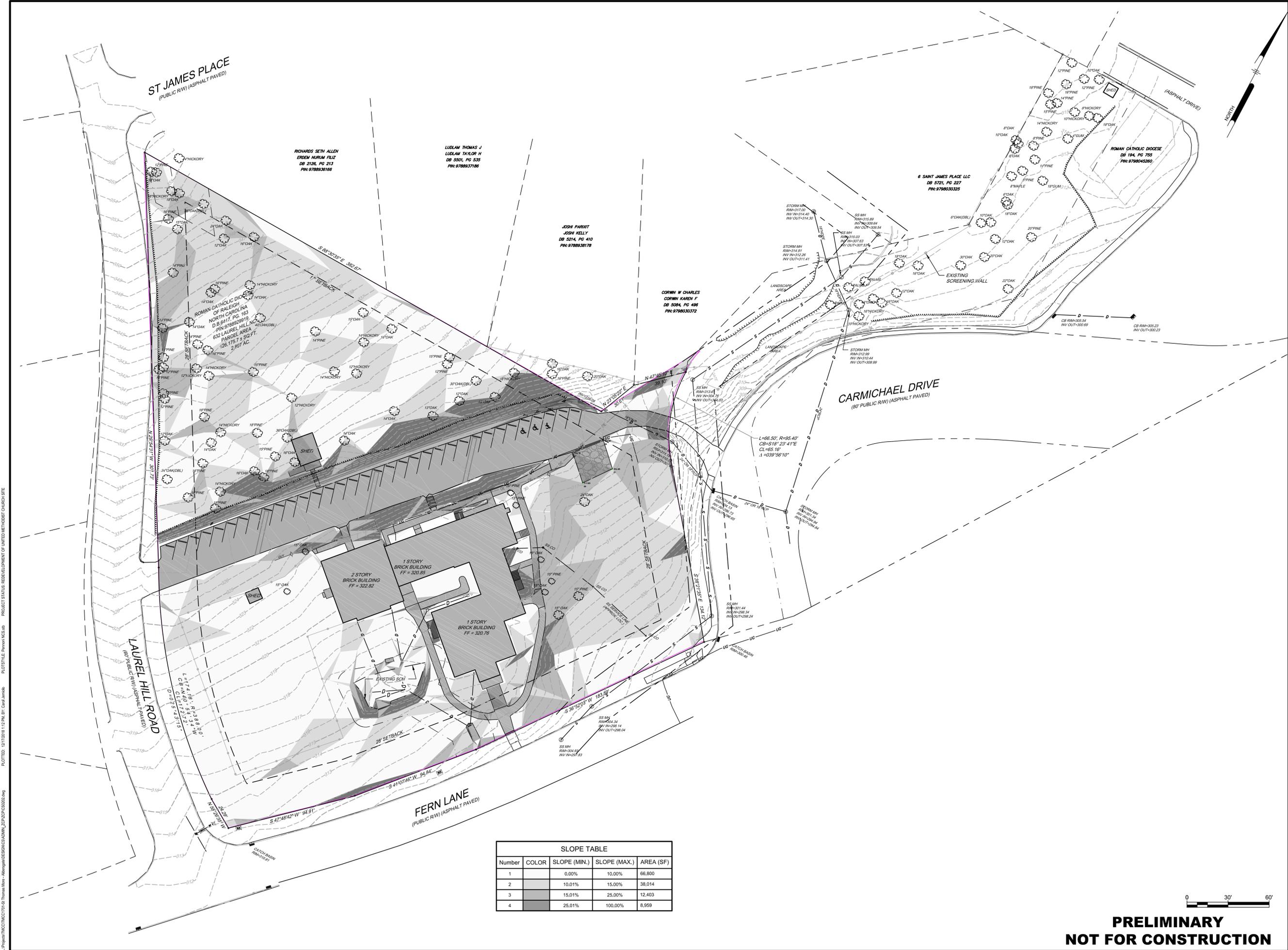
EXISTING CONDITIONS PLAN

THE CATHOLIC COMMUNITY OF ST. THOMAS MORE
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DATE	NO.	REVISIONS	BY
12/17/2018	3	Revised Per Chapel Hill Comments Dated 12/11/18	CJJ
11/02/2018	2	Revised Per Chapel Hill Comments	CJJ
10/12/2018	1	Revised Per Chapel Hill Comments	CJJ

PROJECT	TMCC1701
DATE	2018-07-31
DRAWING SCALE	1"=30'
DRAWN BY	CJJ
APPROVED BY	PCB
CS0201	
SHEET 3 OF 12	

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SLOPE TABLE				
Number	COLOR	SLOPE (MIN.)	SLOPE (MAX.)	AREA (SF)
1		0.00%	10.00%	66,800
2		10.01%	15.00%	38,014
3		15.01%	25.00%	12,403
4		25.01%	100.00%	8,959



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SLOPE ANALYSIS PLAN

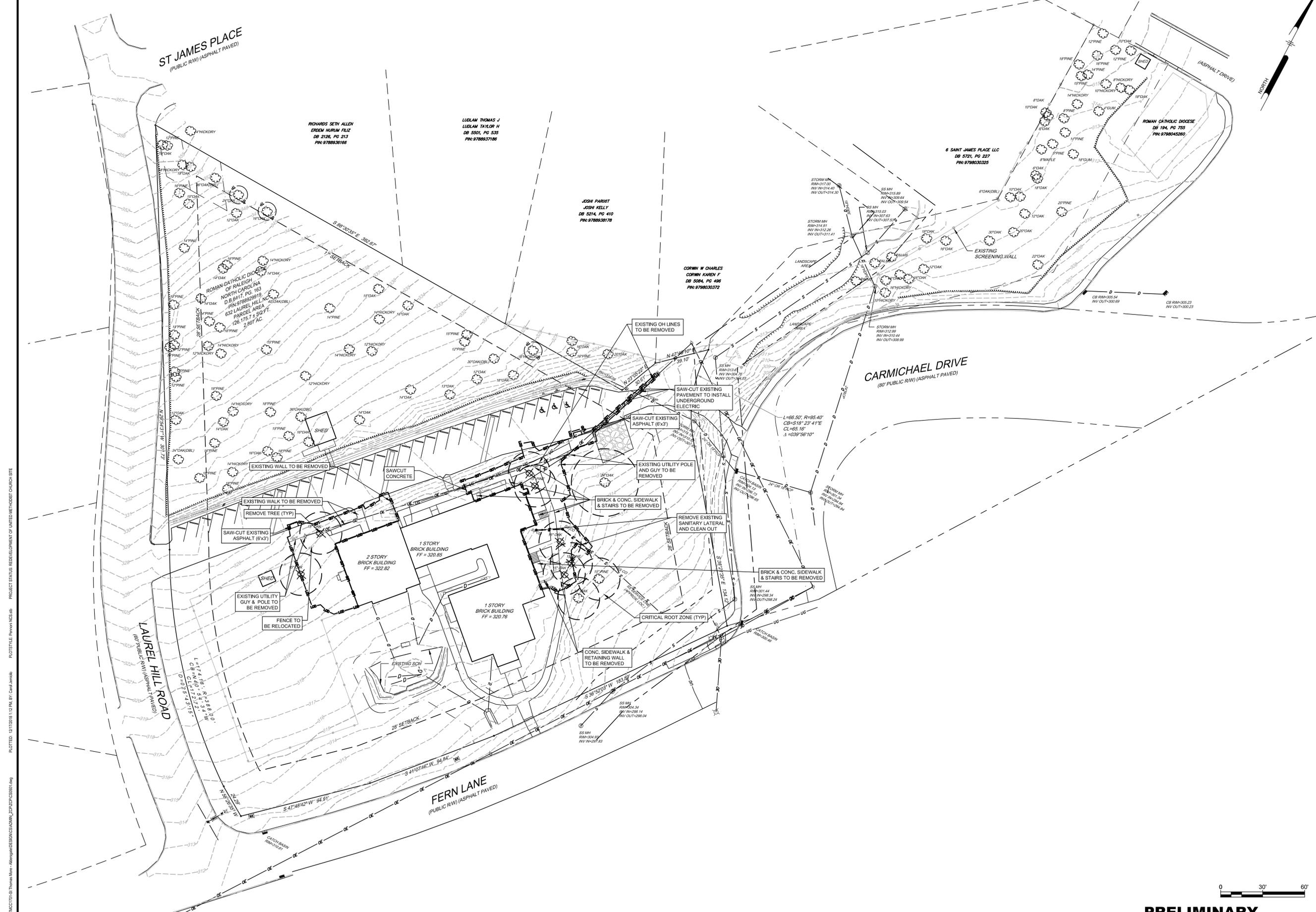
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DATE	NO.	REVISIONS	BY
10/17/2018	1	Revised Per Chapel Hill Comments	CJJ
11/02/2018	2	Revised Per Chapel Hill Comments	CJJ
12/17/2018	3	Revised Per Chapel Hill Comments Dated 12/11/18	CJJ

PROJECT: **TMCC1701**
DATE: 2018-07-31
DRAWING SCALE: 1"=30'
DRAWN BY: DMC
APPROVED BY: PCB

CS0202
SHEET 4 OF 12

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 PLOTTED: 10/17/2018 1:12 PM BY: CjJ
 PLOT FILE: Pennon\TMCC1701.dwg
 PROJECT STATUS: REDEVELOPMENT OF UNITED METHODIST CHURCH SITE

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 PROFESSIONAL ENGINEER
 PETER C. SEIB
 033040
 10/14/18

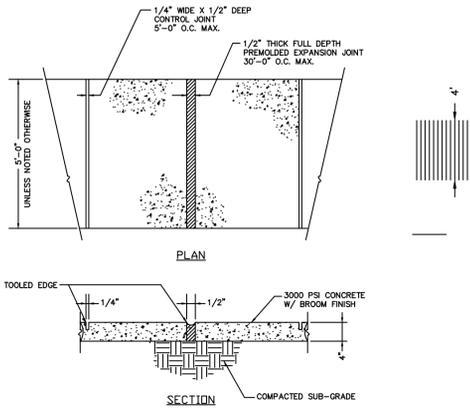
ST. THOMAS MORE - SOUTH CAMPUS - PHASE I
 632 LAUREL HILL ROAD
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DEMOLITION PLAN
 THE CATHOLIC COMMUNITY OF ST. THOMAS MORE
 940 CARMICHAEL STREET
 CHAPEL HILL, NC 27514

NO.	DATE	REVISIONS	BY
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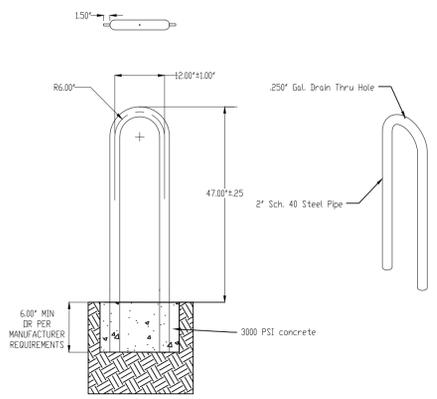
PROJECT	TMCC1701
DATE	2018-07-31
DRAWING SCALE	1"=30'
DRAWN BY	CJJ
APPROVED BY	PCB

CS0501
 SHEET 5 OF 12

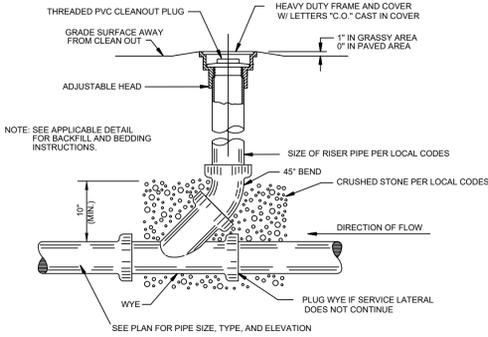


NOTE: SIDEWALKS SHALL INCREASE TO 6" THROUGH DRIVEWAYS. SEAL EXPANSION JOINTS PER NCDOT SPECS.

SIDEWALK DETAIL

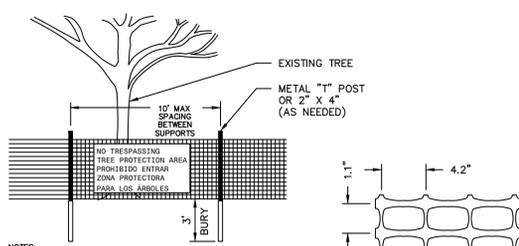


INVERTED 'U' BIKE RACK



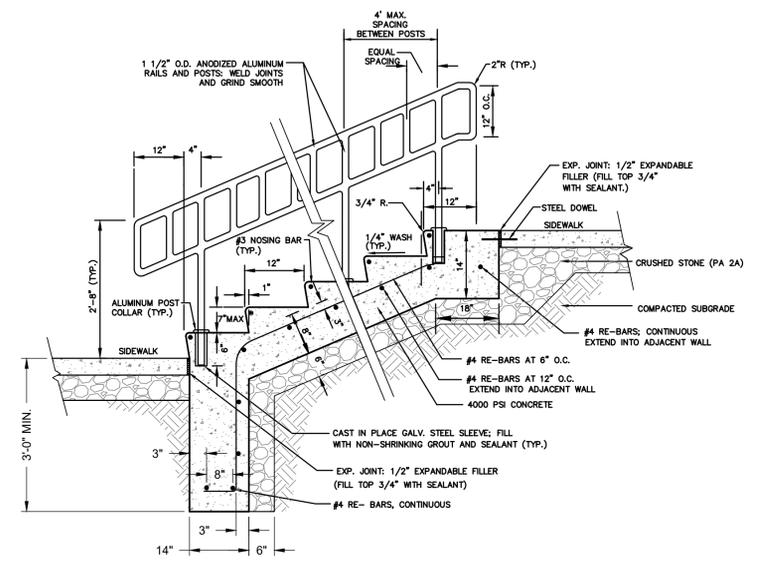
SANITARY SEWER CLEANOUT DETAIL

N.T.S.



TREE PROTECTION FENCE

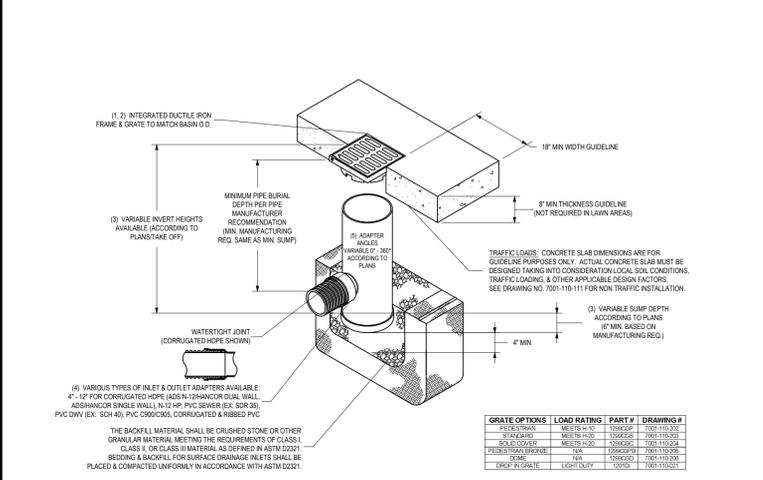
NOT TO SCALE



NOTE: SUBMIT SHOP DRAWINGS FOR STEPS AND RAILING

CONCRETE STEPS WITH RAILING

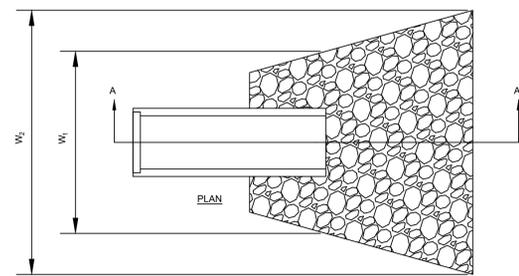
N.T.S.



NYLOPLAST BASIN INSTALLATION DETAIL

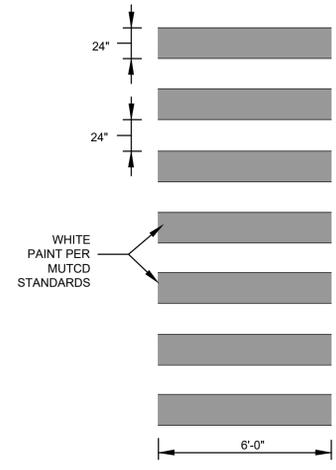
Not to Scale

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
FELERMAN	WEIGHT H-20	108652P	7001-10-200
STANDARD	WEIGHT H-20	108652S	7001-10-200
SOLID COVER	WEIGHT H-20	108652C	7001-10-200
PERFORATED BRIDGE	N/A	108652B	7001-10-200
IRONE	N/A	108652D	7001-10-200
DROP PLUG/GRATE	LIGHT DUTY	108652E	7001-10-200



OUTLET NO.	OUTLET PIPE		RIP-RAP		APRON	
	PIPE DIA. (IN)	PIPE SLOPE (F/FT)	STONE DIAMETER (IN)	THICK. d (IN)	INITIAL WIDTH W ₁ (FT)	TERMINAL WIDTH W ₂ (FT)
FES 1	8	0.005	4	8	2	2

RIP RAP OUTLET DETAIL



CROSSWALK DETAIL

N.T.S.

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PROFESSIONAL ENGINEER

PETER C. BENTLEY

033040

12/17/18

ST. THOMAS MORE - SOUTH CAMPUS - PHASE I

632 LAUREL HILL ROAD
CHAPEL HILL, NC 27514

SITE DETAILS

THE CATHOLIC COMMUNITY OF ST. THOMAS MORE

940 CARMICHAEL STREET
CHAPEL HILL, NC 27514

NO.	DATE	REVISIONS	BY
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PROJECT: **TMCC1701**

DATE: **2018-07-31**

DRAWING SCALE: **NTS**

DRAWN BY: **CJJ**

APPROVED BY: **PCB**

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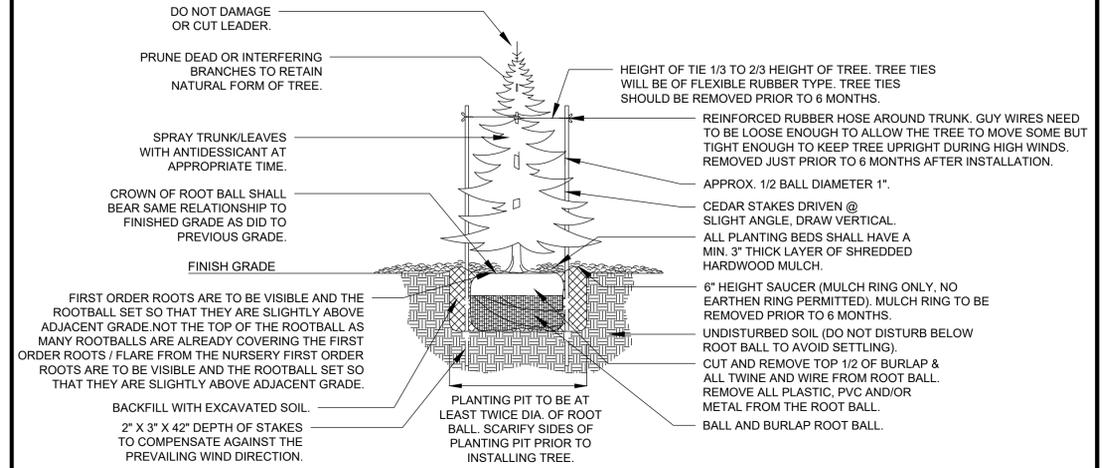
SHEET **9** OF **12**

LANDSCAPING SPECIFICATIONS

1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, ETC NECESSARY TO COMPLETE ALL PLANTING AS SHOWN ON THIS DRAWING, AS SPECIFIED HEREIN AND/OR AS REQUIRED BY JOB CONDITIONS. THE WORK IN GENERAL INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING: (1) PROVIDING ALL PLANT MATERIAL AS INDICATED, (2) EXCAVATION OF TREE PITS, (3) TOPSOIL BACKFILL FOR TREE PITS, (4) FERTILIZING, GUYING, WRAPPING, (5) MAINTENANCE AND GUARANTEE, (6) ALL OTHER ITEMS NECESSARY TO MAKE WORK COMPLETE.
2. TOPSOIL SHALL BE SUPPLIED BY THE CONTRACTOR IN NECESSARY QUANTITY. THE CONTRACTOR MAY USE TOPSOIL AFTER SECURING SOIL TEST AND APPLYING RECOMMENDED TREATMENT THEREOF. TOPSOIL SHALL BE FRIABLE, FERTILE, FINE LOAM OF NATURAL CHARACTERISTICS TYPICAL OF TOPSOIL OF LOCALITY, FREE OF NOXIOUS WEEDS, STONES LARGER THAN TWO INCHES, AND ALL OTHER DELETERIOUS MATERIAL.
3. FERTILIZER SHALL BE OF 5-10-10 FORMULAE, OF A RECOGNIZED MANUFACTURER OF COMMERCIAL FERTILIZER, AND SHALL CONFORM TO THE APPLICABLE STATE AND LOCAL FERTILIZER LAWS. IT SHALL BE UNIFORM IN COMPOSITION, DRY AND FREE FLOWING, SHALL NOT BE STORED IN DIRECT CONTACT WITH THE GROUND AND SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL, OPENED CONTAINERS, BEARING THE MANUFACTURER'S GUARANTEE ANALYSIS. AZALEA - CAMELLIA FERTILIZER SHALL BE "AZALEA AND CAMELLIA SPECIAL" OF A RECOGNIZED MANUFACTURER.
4. PEAT MOSS SHALL BE BROWN; ACID REACTION ABOUT 5.5 TO 7 PH; LOW IN CONTENT OF WOODY MATERIAL AND FREE OF MATERIAL MATTER HARMFUL TO PLANT LIFE; WATER ABSORBING CAPACITY; 100 TO 200 PERCENT; MOISTURE CONTENT 30 PERCENT NATURAL SHREDDED OR GRANULATED.
5. THE CONTRACTOR SHALL MAKE, AT HIS EXPENSE, WHATEVER ARRANGEMENTS MAY BE NECESSARY TO ENSURE AN ADEQUATE SUPPLY OF WATER TO MEET THE NEEDS OF THIS CONTRACT. HE SHALL ALSO FURNISH ALL NECESSARY HOSE, EQUIPMENT ATTACHMENTS AND ACCESSORIES FOR THE ADEQUATE IRRIGATION OF LAWNS AND PLANTED AREAS AS MAY BE REQUIRED.
6. MULCH SHALL BE CLEAN COARSE PINE BARK MULCH OF APPROVED KIND AS GENERALLY AVAILABLE AT LOCAL MARKETS, APPLIED 3 INCHES IN DEPTH OVER ALL BEDS, SHRUBS, AND TREE PLANTINGS, EXCEPT THAT, WHERE SLOPES INDICATE LIKELIHOOD OF WASH, CLEAN BALED WHEAT STRAW SHALL BE USED. AT DRAINAGE DISPERSION POINTS OR ALONG NATURAL WATER WAYS WHERE CONCENTRATIONS OF SURFACE WATER EMPTY FROM CULVERT OR PAVED DITCH, SOIL SAVER OR OTHER HEAVY JUTE MESH SHALL BE INSTALLED IN APPROVED MANNER AND TO SUCH EXTENT AS WILL PREVENT EROSION.
7. THE NAMES OF PLANTS REQUIRED UNDER THIS CONTRACT CONFORM TO THOSE GIVEN IN STANDARDIZED PLANT NAMES, 1942 EDITION, PREPARED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT INCLUDED THEREIN CONFORM GENERALLY WITH NAMES ACCEPTED IN THE NURSERY TRADE. PLANTS SHALL HAVE A HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES AND SHALL BE SOUND, HEALTHY, VIGOROUS, WITH WELL DEVELOPED ROOT SYSTEMS AND FREE FROM INSECT PESTS, PLANT DISEASES, AND INJURIES. ALL PLANTS SHALL EQUAL OR EXCEED THE MEASUREMENTS SPECIFIED IN THE PLANT LIST, WHICH ARE MINIMUM ACCEPTABLE SIZES. TREES SHALL HAVE SINGLE TRUNKS EXCEPT AS NOTED. ALL SHRUBS SHALL BE HEALTHY, VIGOROUS, AND OF GOOD COLOR. ANY NECESSARY PRUNING SHALL BE DONE AT TIME OF PLANTING. HOWEVER, NO PLANT SUPPLIED UNDER THIS CONTRACT SHALL BE PRUNED BACK TO SUCH EXTENT THAT IT NO LONGER MEETS SPECIFICATIONS. REQUIREMENTS FOR THE MEASUREMENTS, GRADING, QUALITY BALLING AND BURLAPPING OF PLANTS IN THE PLANT LIST GENERALLY FOLLOW THE CODE OF STANDARDS CURRENTLY RECOMMENDED BY THE AMERICAN STANDARD FOR NURSERY STOCK. SUBSTITUTIONS WILL BE PERMITTED ONLY UPON SUBMISSION OF PROOF THAT ANY PLANT IS NOT OBTAINABLE AND AUTHORIZATION BY THE OWNER OF A CHANGE ORDER PROVIDING FOR USE OF THE NEAREST EQUIVALENT OBTAINABLE SIZE OR VARIETY OF PLANT HAVING THE SAME ESSENTIAL CHARACTERISTICS WITH AN EQUITABLE ADJUSTMENT OF CONTRACT PRICE.
8. BALLED AND BURLAPPED PLANTS ("B&B") SHALL BE DUG WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. BALLS SHALL BE FIRMLY WRAPPED WITH BURLAP OR SIMILAR MATERIAL AND BOUND WITH TWINE OR CORD.
9. THE CONTRACTOR SHALL BE NOTIFIED BY THE OWNER, WHEN OTHER DIVISIONS OF THE WORK HAVE PROGRESSED SUFFICIENTLY TO COMMENCE WORK OF PLANTING OPERATION. THEREAFTER, PLANTING OPERATIONS SHALL BE CONDUCTED UNDER FAVORABLE WEATHER CONDITIONS DURING THE NEXT SEASON OR SEASONS WHICH ARE NORMAL FOR SUCH WORK. REMOVAL OF ROCK OR OTHER UNDERGROUND OBSTRUCTIONS, RELOCATION OR CONSTRUCTION, AND PROVISION OF DRAINAGE FOR PLANTING AREAS SHALL BE DONE ONLY AS DIRECTED BY THE OWNER.
10. NEW PLANTING SHALL BE LOCATED WHERE SHOWN ON THE PLAN EXCEPT WHERE OBSTRUCTIONS BELOW GROUND ARE ENCOUNTERED OR WHERE CHANGES HAVE BEEN MADE ONLY AFTER APPROVAL BY THE OWNER. REASONABLE CARE SHALL BE EXERCISED TO HAVE PLANTING PITS DUG AND SOIL PREPARED PRIOR TO MOVING PLANTS TO THEIR RESPECTIVE LOCATIONS TO ENSURE THAT THEY WILL NOT BE UNNECESSARILY EXPOSED TO DRYING ELEMENTS OR TO PHYSICAL DAMAGE. DIAMETER OF PITS FOR TREES AND B&B SHRUBS AND VINES SHALL BE AT LEAST TWO FEET GREATER THAN THE DIAMETER OF THE BALL OR SPREAD OR ROOTS.
11. SOIL USED IN PLANTING SHALL BE TOPSOIL OR SUITABLE EXISTING SOIL EITHER OR WHICH SHALL BE THOROUGHLY MIXED WITH ONE PART OF PEAT AND ONE PART OF MANURE TO FIVE PARTS OF SOIL. VERY POOR SOIL, GRAVE, HARD-PAN, OR OTHER SOIL INJURIOUS TO PLANTS SHALL NOT BE USED. EXCEPT FOR ERICACEOUS PLANTS, VERY ACID OR SOUR SOIL (HAVING A PH OF LESS THAN 6) SHALL BE THOROUGHLY MIXED WITH SUFFICIENT LIMETO PRODUCE A SLIGHTLY ACID REACTION (A PH OF 6 TO 6.5). SOIL USED IN PLANTING SHALL BE THOROUGHLY SIZED WITH 5 POUNDS OF 5-10-10 FORMULAE COMMERCIAL FERTILIZER PER CUBIC YARD. FOR CAMELLIA PLANTINGS, SUBSTITUTE AZALEA-CAMELLIA FERTILIZER IN LIEU OF 5-10-10 COMMERCIAL FERTILIZER.
12. ALL PLANTS SHALL BE PLANTED UPRIGHT AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO ADJACENT STRUCTURES. NO BURLAP SHALL BE PULLED OUT FROM UNDER BALLS. ROOTS SHALL BE SPREAD IN THEIR NORMAL POSITION. ALL BROKEN OR FRAYED ROOTS SHALL BE CUT OFF CLEANLY. TREES SHALL BE SUPPORTED IMMEDIATELY AFTER PLANTING. ALL TREES SHALL BE STAKED. WIRES SHALL BE ENCASED IN HOSE TO PREVENT DIRECT CONTACT WITH BARK OF THE TREE SHALL BE PLACED AROUND THE TRUNK IN SINGLE LOOP. WIRES SHALL BE TIGHTENED AND KEPT TAUT.
13. SHRUB PITS SHALL BE CARRIED TO A DEPTH OF 15-18 INCHES. BACKFILL SHALL BE TOPSOIL MIXED WITH FERTILIZER (5-10-10) AT THE RATE OF 1 LB. PER TWO FEET OF SHRUB HEIGHT EXCEPT THAT 8-8-8 AZALEA-CAMELLIA FERTILIZER SHALL BE USED ON ALL BROADLEAF EVERGREENS. GROUND COVER SHALL BE PLANTED IN BEDS HAVING A MINIMUM DEPTH OF 6 INCHES. THE PREPARED SOIL USED SHALL BE THOROUGHLY MIXED WITH ONE-THIRD PEAT, WITH 40 LBS. OF FERTILIZER (5-10-10) PER 1,000 SQUARE FEET OF BED, AND LIGHTLY COMPACTED. PLANTS SHALL BE EVENLY SPACED AND SET TO FINISHED GRADE LEVEL, AFTER SETTLEMENT. ALL PLANTS SHALL BE MULCHED WITH 3-INCH LAYER OF PINE BARK MULCH WITHIN TWO DAYS AFTER PLANTING. THIS MULCH SHALL ENTIRELY COVER THE AREA OF THE PLANTING PIT, BED, OR SAUCER AROUND EACH PLANT. AT THE TIME OF PLANTING EACH PLANT AND THE SOIL AROUND IT SHALL BE THOROUGHLY SATURATED WITH WATER AND AS MANY TIMES LATER AS SEASONABLE CONDITIONS REQUIRE, UNTIL ACCEPTANCE OF THE WORK.
14. CARE SHOULD BE EXERCISED WHEN WATERING TO AVOID FLOODING OF PLANTS AND BEDS, DISPLACEMENT OF MULCH MATERIAL AND EROSION OF SOIL. AVOID USE OF HIGH PRESSURE HOSES. AFTER ALL OTHER WORK IS COMPLETED, BARK MULCH SHALL BE SPREAD TO A DEPTH OF 3 INCHES MINIMUM AROUND ALL PLANTING BEDS.
15. MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING. NEW PLANTING SHALL BE PROTECTED AS MAINTAINED FOR A PERIOD OF TEN (10) WEEKS AFTER FINAL ACCEPTANCE OF THE WORK BY THE OWNER. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, MULCHING, REMOVAL OF DEAD MATERIALS, RESETTling PLANTS TO PROPER GRADES OR UPRIGHT POSITION, RESTORATION OF PLANTING SAUCER, AND OTHER NECESSARY OPERATIONS. PROPER PROTECTION TO EXISTING LAWN AREAS SHALL BE PROVIDED AND ANY DAMAGE RESULTING FROM PLANTING OPERATIONS SHALL BE REPAIRED PROMPTLY. ADEQUATE PROTECTION FOR LAWN AREAS AGAINST TRESPASSING DURING PLANTING OPERATIONS AND AGAINST DAMAGE OF ANY KIND SHALL BE PROVIDED. NOTHING IN THESE SPECIFICATIONS IS INTENDED TO RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO REPAIR EXISTING LAWN AREAS DAMAGED BY WORKMEN ENGAGED IN THE COMPLETION OF THIS PROJECT.
16. INSPECTION OF THE WORK TO DETERMINE COMPLETION OF THE CONTRACT EXCLUSIVE OF THE POSSIBLE REPLACEMENT OF PLANTINGS, WILL BE MADE BY THE ENGINEER'S LANDSCAPE DESIGNER AT THE CONCLUSION OF THE INSTALLATION PERIOD UPON WRITTEN NOTICE REQUESTING SUCH INSPECTION. REQUEST SHALL BE SUBMITTED BY CONTRACTOR AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED DATE FOR INSPECTION. AFTER INSPECTION, THE CONTRACTOR WILL BE NOTIFIED IN WRITING BY THE OWNER OF ACCEPTANCE OF THE WORK, EXCLUSIVE OF THE POSSIBLE REPLACEMENT OF PLANTS CONTRACTOR WILL BE NOTIFIED OF THE REQUIREMENTS NECESSARY FOR COMPLETION OF THE WORK.
17. NURSERY STOCK SHALL BE FULLY GUARANTEED FOR ONE FULL YEAR. ALL PLANTS THAT FAIL TO MAKE NEW GROWTH FROM A DORMANT CONDITION OR THAT DIE DURING THE FIRST YEAR AFTER PLANTING SHALL BE REPLACED. ALL REPLACEMENTS SHALL CONFORM WITH THE ORIGINAL SPECIFICATIONS AS TO SIZE AND TYPE. ALL GUARANTEES ARE PREDICATED ON THE ASSURANCE THAT THE OWNER HAS PROPERLY CARED FOR ALL PLANTS AFTER THE CONTRACTOR HAS BEEN RELEASED FROM HIS MAINTENANCE OBLIGATIONS. IN THE EVENT THAT A DIFFERENCE OF OPINION SHALL ARISE OVER THE REPLACEMENT OF ANY PLANT, THE DECISION OF THE ENGINEER'S LANDSCAPE DESIGNER SHALL BE FINAL. ALL COSTS OF REPLACEMENTS SHALL BE BORNE BY THE CONTRACTOR.

LANDSCAPE BUFFER PLANTING NOTES

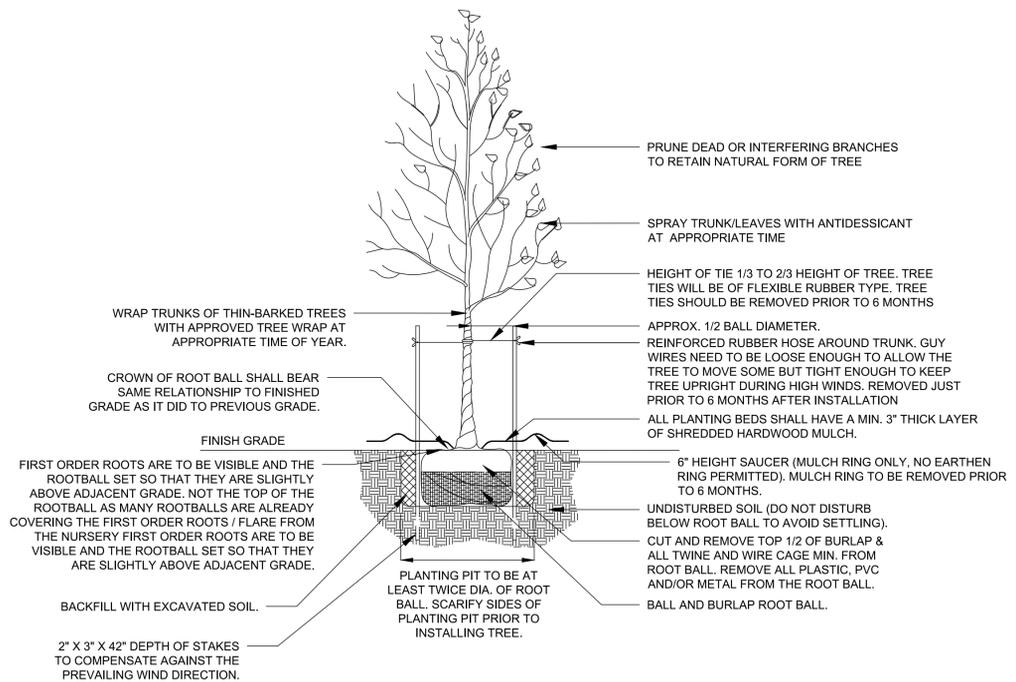
1. NO MACHINERY SHALL BE USED DURING THE INSTALLATION OF BUFFER PLANTINGS. PLANTING HOLES ARE TO BE EXCAVATED WITH HAND TOOLS.
2. LANDSCAPE MATERIALS SHALL BE TRANSPORTED USING HAND TRUCKS AND WHEELBARROWS.
3. ALL EXCAVATED SOIL SHALL BE PLACED ON TOP OF A TARP AND RE-INSTALLED WITHIN EXCAVATED HOLE.
4. LANDSCAPE MATERIAL (TREES, SHRUBS, MULCH) SHALL BE TRANSPORTED WITHIN THE BUFFER AREA TO THE MAXIMUM EXTENT PRACTICABLE. TRANSPORT OF MATERIALS THROUGH THE WOODS SHALL BE AVOIDED.
5. IF PLANTING MATERIALS ARE TO BE STORED ON-SITE, THIS SHALL OCCUR WITHIN THE EXISTING ASPHALT PARKING AREA.
6. MULCH SHALL BE PLACED AROUND ALL TREES AND SHRUBS PLANTED BY THE END OF THE WORK DAY THAT THEY ARE PLANTED.



NOTE: PROVIDE A 5'-0\"/>

TYPICAL EVERGREEN TREE PLANTING

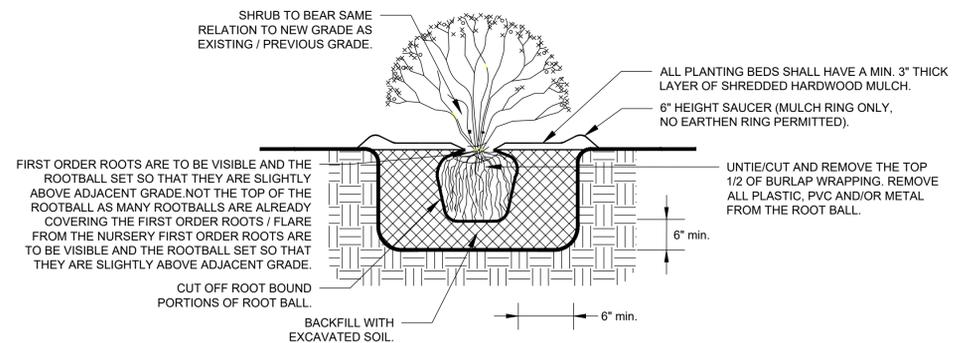
SOURCE: PENNONI
N.T.S.



NOTE: PROVIDE A 5'-0\"/>

TYPICAL DECIDUOUS TREE PLANTING DETAIL

SOURCE: PENNONI
N.T.S.



SHRUB PLANTING - BALL AND BURLAP DETAIL

SOURCE: PENNONI
N.T.S.



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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

ST. THOMAS MORE - SOUTH CAMPUS - PHASE I
 632 LAUREL HILL ROAD
 CHAPEL HILL, NC 27514

LANDSCAPE DETAILS

THE CATHOLIC COMMUNITY OF ST. THOMAS MORE
 940 CARMICHAEL STREET
 CHAPEL HILL, NC 27514

NO.	DATE	REVISIONS
3	12/17/2018	Revised Per Chapel Hill Comments Dated 12/11/18
2	11/09/2018	Revised Per Chapel Hill Comments
1	10/12/2018	Revised Per Chapel Hill Comments

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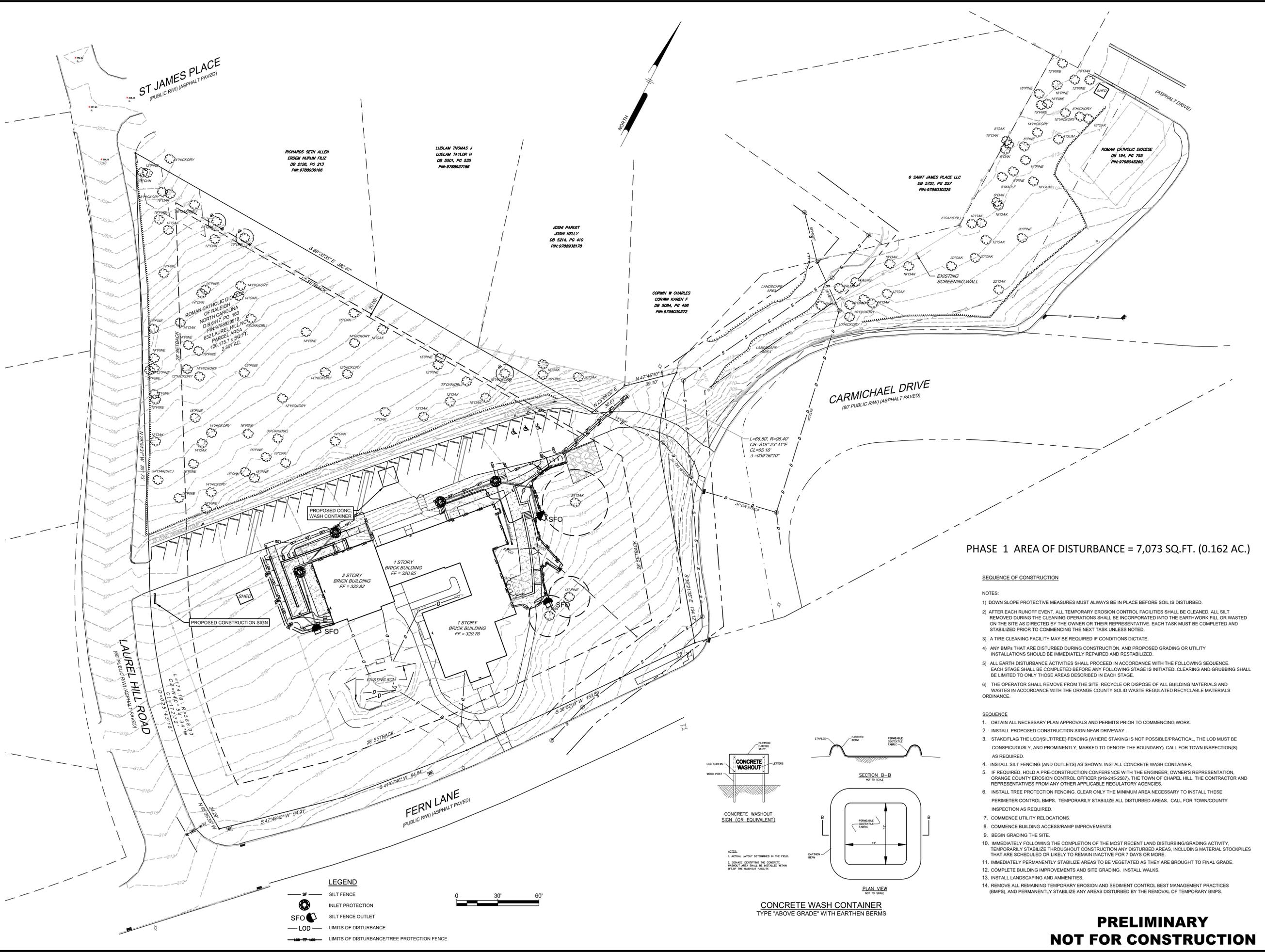
PROJECT	TMCC1701
DATE	2018-07-31
DRAWING SCALE	NTS
DRAWN BY	CJJ
APPROVED BY	PCB

CS6061

SHEET 10 OF 12

L:\P\sh\TMCC1701\05 Thomas More - Main\penn\050626\TMCC1701_SCP_S06061.dwg
 RUSTULE Pennoni\USLS
 PROJECT STATUS: REDEVELOPMENT OF UNITED NETWORK CENTER SITE
 ROTTED: 12/17/2018 1:10 PM BY: Carl Jankus

L:\Projects\TMCC1701\11.dwg, 11.dwg, BY: Carl Jankovics, PLOTTED: 12/17/2018 11:49 AM, PROJECT STATUS: REDEVELOPMENT OF UNITED METHODIST CHURCH SITE



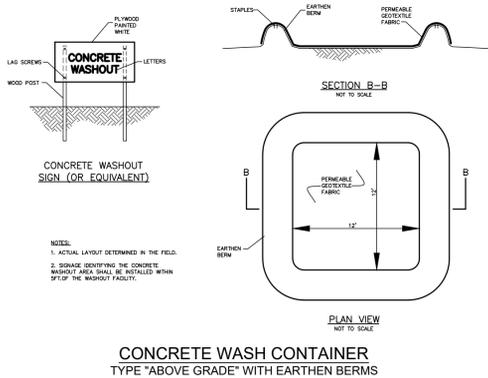
PHASE 1 AREA OF DISTURBANCE = 7,073 SQ.FT. (0.162 AC.)

SEQUENCE OF CONSTRUCTION

- NOTES:
- 1) DOWN SLOPE PROTECTIVE MEASURES MUST ALWAYS BE IN PLACE BEFORE SOIL IS DISTURBED.
 - 2) AFTER EACH RUNOFF EVENT, ALL TEMPORARY EROSION CONTROL FACILITIES SHALL BE CLEANED. ALL SILT REMOVED DURING THE CLEANING OPERATIONS SHALL BE INCORPORATED INTO THE EARTHWORK FILL OR WASTED ON THE SITE AS DIRECTED BY THE OWNER OR THEIR REPRESENTATIVE. EACH TASK MUST BE COMPLETED AND STABILIZED PRIOR TO COMMENCING THE NEXT TASK UNLESS NOTED.
 - 3) A TIRE CLEANING FACILITY MAY BE REQUIRED IF CONDITIONS DICTATE.
 - 4) ANY BMPs THAT ARE DISTURBED DURING CONSTRUCTION, AND PROPOSED GRADING OR UTILITY INSTALLATIONS SHOULD BE IMMEDIATELY REPAIRED AND RESTABILIZED.
 - 5) ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING SEQUENCE. EACH STAGE SHALL BE COMPLETED BEFORE ANY FOLLOWING STAGE IS INITIATED. CLEARING AND GRUBBING SHALL BE LIMITED TO ONLY THOSE AREAS DESCRIBED IN EACH STAGE.
 - 6) THE OPERATOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ALL BUILDING MATERIALS AND WASTES IN ACCORDANCE WITH THE ORANGE COUNTY SOLID WASTE REGULATED RECYCLABLE MATERIALS ORDINANCE.

SEQUENCE

1. OBTAIN ALL NECESSARY PLAN APPROVALS AND PERMITS PRIOR TO COMMENCING WORK.
2. INSTALL PROPOSED CONSTRUCTION SIGN NEAR DRIVEWAY.
3. STAKE/FLAG THE LOD(SILT/TREE) FENCING (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY, AND PROMINENTLY, MARKED TO DENOTE THE BOUNDARY). CALL FOR TOWN INSPECTION(S) AS REQUIRED.
4. INSTALL SILT FENCING (AND OUTLETS) AS SHOWN. INSTALL CONCRETE WASH CONTAINER.
5. IF REQUIRED, HOLD A PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, OWNERS REPRESENTATION, ORANGE COUNTY EROSION CONTROL OFFICER (919-345-2857), THE TOWN OF CHAPEL HILL, THE CONTRACTOR AND REPRESENTATIVES FROM ANY OTHER APPLICABLE REGULATORY AGENCIES.
6. INSTALL TREE PROTECTION FENCING. CLEAR ONLY THE MINIMUM AREA NECESSARY TO INSTALL THESE PERIMETER CONTROL BMPs. TEMPORARILY STABILIZE ALL DISTURBED AREAS. CALL FOR TOWN/COUNTY INSPECTION AS REQUIRED.
7. COMMENCE UTILITY RELOCATIONS.
8. COMMENCE BUILDING ACCESS/RAMP IMPROVEMENTS.
9. BEGIN GRADING THE SITE.
10. IMMEDIATELY FOLLOWING THE COMPLETION OF THE MOST RECENT LAND DISTURBING/GRADING ACTIVITY, TEMPORARILY STABILIZE THROUGHOUT CONSTRUCTION ANY DISTURBED AREAS, INCLUDING MATERIAL STOCKPILES THAT ARE SCHEDULED OR LIKELY TO REMAIN INACTIVE FOR 7 DAYS OR MORE.
11. IMMEDIATELY PERMANENTLY STABILIZE AREAS TO BE VEGETATED AS THEY ARE BROUGHT TO FINAL GRADE.
12. COMPLETE BUILDING IMPROVEMENTS AND SITE GRADING. INSTALL WALKS.
13. INSTALL LANDSCAPING AND AMENITIES.
14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs), AND PERMANENTLY STABILIZE ANY AREAS DISTURBED BY THE REMOVAL OF TEMPORARY BMPs.



LEGEND

- SILT FENCE
- INLET PROTECTION
- SILT FENCE OUTLET
- LIMITS OF DISTURBANCE
- LIMITS OF DISTURBANCE/TREE PROTECTION FENCE

Scale: 0 30' 60'

**PRELIMINARY
NOT FOR CONSTRUCTION**

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK

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632 LAUREL HILL ROAD
CHAPEL HILL, NC 27514

EROSION AND SEDIMENTATION CONTROL PLAN

THE CATHOLIC COMMUNITY OF ST. THOMAS MORE
940 CARMICHAEL STREET
CHAPEL HILL, NC 27514

NO.	DATE	REVISIONS	BY
3	12/17/2018	Revised Per Chapel Hill Comments Dated 12/11/18	CJJ
2	11/02/2018	Revised Per Chapel Hill Comments	CJJ
1	10/12/2018	Revised Per Chapel Hill Comments	CJJ

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PROJECT: **TMCC1701**
DATE: 2018-07-31
DRAWING SCALE: 1"=30'
DRAWN BY: CJJ
APPROVED BY: PCB

CS8001
SHEET 11 OF 12

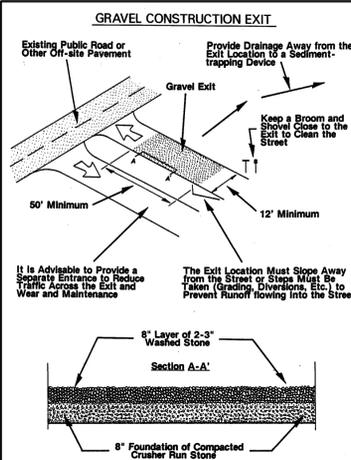


Figure 2: Illustration of a Gravel Construction Exit.

GRAVEL CONSTRUCTION EXIT

INSTALLATION

- REFER TO PLANS FOR LOCATION AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND PHOTOGRAPHS OF PROPERLY INSTALLED EXITS AS AN AID TO INSTALLATION.
- IF THE CONSTRUCTION EXIT IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND, TAKING INTO CONSIDERATION:
 - THE CONSTRUCTION EXIT MUST BE IN PLACE DURING ALL PHASES OF CONSTRUCTION; IF THE LOCATION IS TO BE GRADED, THE EXIT MUST BE INSTALLED FOR THE INITIAL WORK, REMOVED TO ALLOW GRADING IF THE LOCATION, AND REPLACED IMMEDIATELY AFTER GRADING SO THAT IT IS IN PLACE AND FUNCTIONING AT ALL TIMES.
 - IF THE SITE WILL HAVE A LARGE NUMBER OF VEHICLES USING THE EXIT, IT IS ADVISABLE TO HAVE A DIVIDED ENTRANCE THAT DIRECTS TRAFFIC THROUGH A SEPARATE TRAVELWAY PARALLEL TO THE GRAVEL CONSTRUCTION EXIT IN ORDER TO REDUCE THE NUMBER OF TRIPS OVER THE STONE, INCREASING THE LIFE OF THE GRAVEL AND REDUCING MAINTENANCE. REFER TO THE ILLUSTRATION FOR DETAILS.
 - RUNOFF AND SEDIMENT FROM THE SITE MUST BE DIRECTED AWAY FROM THE EXIT SO THAT IT DOES NOT FLOW FROM THE EXIT TO THE EXISTING DRIVEWAY, SIDEWALK, OR OTHER OFF-SITE AREA; CHOOSE A LOCATION FOR THE EXIT THAT WILL MAKE IT EASY TO CONVERT THE RUNOFF TO SEDIMENT-TRAPPING DEVICES.
 - IF THE GRAVEL CONSTRUCTION EXIT DOES NOT FUNCTION TO KEEP MUD AND DUST ON-SITE, THEN AN SOIL OR DEBRIS TRAP SHOULD BE INSTALLED AT THE END OF THE EXIT TO REMOVE TRAPPED MUD AND DUST.
 - IF THE PERSON RESPONSIBLE FOR THE DISTURBANCE FAILS TO TAKE NECESSARY PRECAUTIONS TO PREVENT THE EXIT FROM BEING CLOGGED, CLEAN THE LOCATION OF THE SITE AND THE GRADING PERMIT SHOULD BE REVOKED AND A STOP WORK ORDER ISSUED.
- CLEAR THE LOCATION OF THE EXIT, REMOVING STUMPS, ROOTS, AND OTHER VEGETATION IN ORDER TO PROVIDE A FIRM FOUNDATION SO THAT THE STONE IS NOT PRESSED INTO SOFT GROUND. CLEAR ENOUGH WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY WHAT IS NECESSARY FOR THE EXIT. DO NOT CLEAR AREAS UNTIL THE REQUIRED EROSION CONTROL DEVICES ARE IN PLACE.
- A SQUARE-SHED SHOVEL AND BRUSH WITH STIFF BRISTLES MUST BE PROVIDED AT THE EXIT FOR REMOVING MUD THAT MAY BE TRACKED INTO THE STREET.

USE

- AS VEHICLES LEAVING THE SITE DRIVE ACROSS THE WASHED STONE THE ABRASIVE ACTION OF THE WASHED STONE SHOULD REMOVE SEDIMENT FROM THE TIRES AND LEAVE A SURFACE TO USE A SHOVEL TO REMOVE MUD TRAPPED BETWEEN TIRE TREADS.
- ANY SOIL TRACKED FROM THE SITE MUST BE REMOVED IMMEDIATELY. A SHOVEL AND BRUSH MUST BE USED TO REMOVE AS MUCH SOIL AS POSSIBLE BEFORE WASHING THE PAVEMENT.

MAINTENANCE

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIMES.

- WHEN THE STONE IN THE EXIT BECOMES CONTAMINATED WITH SOIL AND THE FUNCTION IS REDUCED, THE STONE SHOULD BE REPLACED INTO THE STREET, A 4-INCH LAYER OF CLEAN STONE MUST BE ADDED.
- DIVERSIONS USED TO DIRECT RUNOFF AWAY FROM THE EXIT TO SEDIMENT-TRAPPING DEVICES MUST BE MAINTAINED ACCORDING TO SPECIFICATIONS FOR THOSE DEVICES.
- THE GRAVEL CONSTRUCTION EXIT MUST BE MAINTAINED SO THAT MUD AND DUST ARE KEPT ON-SITE. PROBLEMS MUST BE ANTICIPATED AND PREVENTIVE MAINTENANCE MUST BE PERFORMED.

REMOVAL

- WHEN THE GRAVEL CONSTRUCTION EXIT IS NO LONGER NEEDED, WHEN THE TRAVELWAY HAS BEEN STABILIZED AND THE PAVED SURFACE TRAPPING SOIL AND DEBRIS INTO THE STREET HAS BEEN REMOVED, THE GRAVEL CONSTRUCTION EXIT MAY BE REMOVED.
- THE STONE AND ANY SEDIMENT SHOULD BE REMOVED AND PROPERLY DISPOSED OF WHERE THEY WILL NOT CREATE AN EROSION HAZARD.

VEGETATION

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE REPEATED.
- USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON.

ALL SEASONS:

LIME: 90 POUNDS PER 1000 SQUARE FEET (2 TONS PER ACRE).
 FERTILIZER: 10-10-10: 14 POUNDS PER 1000 SQUARE FEET (700 POUNDS PER ACRE).
 STRAW MULCH: 80 POUNDS PER 1000 SQUARE FEET (1.5 TO 2 TONS PER ACRE); USE ENOUGH STRAW TO COVER 75% OF THE GROUND.

MARCH - MAY

RYE GRASS: 3 POUNDS PER 1000 SQUARE FEET (150 POUNDS PER ACRE).
 OR SPRING OATS: 3 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE).

MAY - AUGUST

MILLET: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE).
 OR SORGHUM HYBRIDS: 1 POUND PER 1000 SQUARE FEET (40 POUNDS PER ACRE).

NOVEMBER 15 - FEBRUARY

OATS: BEFORE OCTOBER 11: 2.5 POUNDS PER 1000 SQUARE FEET (125 POUNDS PER ACRE).
 OR WHEAT: AFTER OCTOBER 11: 3 POUNDS PER 1000 SQUARE FEET (180 POUNDS PER ACRE).

VEGETATION IS NOT AN APPROPRIATE STABILIZATION DURING THESE SEASONS. USE ANOTHER TYPE OF TEMPORARY GROUND COVER, SUCH AS MULCHING.

3. SEEDING PREPARATION: REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL IMPEDIMENT SEEDING AND MAINTENANCE. THE SHOOTS AND APPLICABLE SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEED BED; APPLY LIME AND FERTILIZER, THEN RAKE THE SOIL TO MIX WITH RECEIVING THE SEED.

4. SEEDING: APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACKER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.

5. MULCHING: THE AREA SEEDING MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TRACKING IT WITH APPROVAL OR COVERING IT WITH NETTING.

MAINTENANCE

AREAS MUST BE RESEED AND MULCHED WHERE THE VEGETATION FAILS TO ESTABLISH ITSELF IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TRACKING IT WITH APPROVAL OR COVERING IT WITH NETTING.

INSTRUCTIONS FOR PERMANENT STABILIZATION USING VEGETATION

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY BE ABLE TO OFFER ASSISTANCE.
- IF THE DISTURBANCE IS NOT PROPERLY STABILIZED THE FIRST TIME SO THAT EROSION IS RESTRAINED, THE SEEDING WILL HAVE TO BE REPEATED.
- USE THE APPLICATION RATES FOR LIME, FERTILIZER, SEED, MULCH, ETC. SPECIFIED IN THE PLAN, OR USE THE RATES BELOW FOR THE APPROPRIATE SEASON. IF SEEDING IS TO BE DONE IN A SEASON NOT LISTED BELOW, USE VEGETATION COMPATIBLE WITH THAT SEASON OR ANOTHER METHOD OF PERMANENT STABILIZATION.
- TALL PLOTS:**
 SEEDING DATES: FEBRUARY 15 - MAY, OR AUGUST 15 - OCTOBER 15
 LIME: 150 POUNDS PER 1000 SQUARE FEET (3 TONS PER ACRE)
 FERTILIZER: 10-10-10: 23 POUNDS PER 1000 SQUARE FEET (100 POUNDS PER ACRE). A SPLIT APPLICATION OF 500 POUNDS PER ACRE OF FERTILIZER IS ALLOWED. MULCH IS NOT ALLOWED IN SPRING OR FALL. IS PREFERABLE, ADD 500 POUNDS PER ACRE SUPER PHOSPHATE WHERE THE SUBSOIL IS EXPOSED.
 SEED: 1.5 POUNDS PER 1000 SQUARE FEET (60 POUNDS PER ACRE)
 MULCH: 80 POUNDS OF STRAW MULCH PER 1000 SQUARE FEET (APPROXIMATELY 4 INCHES DEEP).
 TEMPORARY COVER: 0.5 POUNDS OF GRASS OR SHOWSTOP MILLET PER 1000 SQUARE FEET (20 POUNDS PER ACRE).
- SEEDING PREPARATION:** REMOVE ROCKS, STUMPS, ROOTS, ETC. SINCE THEY WILL INFERRE WITH SEEDING AND MAINTENANCE. THE SHOOTS, CONTACTED SURFACE OF CUT AND FILL SLOPES IS NOT A GOOD SEED BED; APPLY LIME AND FERTILIZER, THEN RAKE THE SOIL 4 TO 6 INCHES TO MIX THE MATERIALS INTO THE SOIL, AND TO LOOSEN AND REMOVE IT TO RECEIVE THE SEED.
- SEEDING:** APPLY SEED AT THE RECOMMENDED RATE, AND GO OVER THE SURFACE WITH A CULTIPACKER WHERE POSSIBLE TO BRING THE SEED INTO CONTACT WITH THE SOIL.
- MULCHING:** THE AREA SEEDING MUST BE MULCHED TO PROTECT THE BARE SOIL UNTIL THE VEGETATION IS ESTABLISHED AND TO RETAIN MOISTURE TO PROMOTE SEED GERMINATION AND PLANT GROWTH. APPLY ENOUGH MULCH TO COVER 75% OF THE SOIL SURFACE. TO KEEP IT IN PLACE AND PREVENT WIND OR WATER FROM DISLODGING IT, THE MULCH SHOULD BE HELD IN PLACE BY TRACKING IT WITH APPROVAL OR COVERING IT WITH A STRAIGHT-SET DISK, OR COVERING IT WITH NETTING.

MAINTENANCE

ANY PLACES WHERE THE VEGETATION FAILS TO ESTABLISH ITSELF OR IS DAMAGED BY RUNOFF OR CONSTRUCTION ACTIVITY MUST BE RESEED. WHERE THE VEGETATION FAILS TO RESTRAIN EROSION, OTHER EROSION CONTROL MEASURES MUST BE INSTALLED.

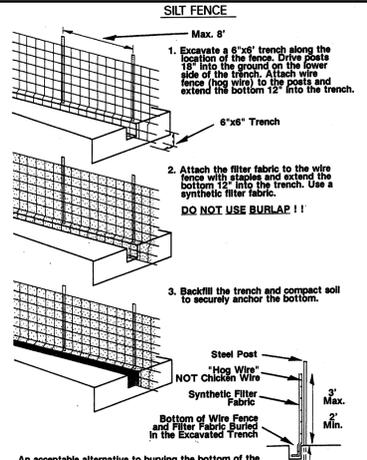


Figure 3: Illustration of Silt Fence Installation.

SILT FENCE

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED SILT FENCES AS AN AID TO INSTALLATION.
- IF THE SILT FENCE IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND TAKING INTO CONSIDERATION:
 - A SILT BARRIER (PRE-FABRICATED SILT FENCE) CANNOT BE SUBSTITUTED. THE SILT FENCE MUST BE CONSTRUCTED AS DESCRIBED IN THESE INSTRUCTIONS.
 - ALLOW SUFFICIENT SPACE FOR MAINTENANCE, GRADING, FILLING, AND OTHER CONSTRUCTION ACTIVITY BETWEEN SILT FENCES AND TO THE CONSTRUCTION SITE. IF NECESSARY, HAVE SLOPE STAIRS, BUILDING CORNERS, STORM DRAINS, AND OTHER STRUCTURES TO BE INSTALLED. KNOW WHERE THE TOE OF FILL SLOPES WILL EXTEND SO THAT SUFFICIENT ROOM IS LEFT BETWEEN THE TOE AND SILT FENCE FOR MAINTENANCE, REPAIR, AND REMOVAL.
 - ALLOW AT LEAST:
 - 15 FEET BETWEEN THE FENCE AND SINGLE-STORY BUILDINGS.
 - 15 FEET BETWEEN THE FENCE AND MULTIPLE-STORY BUILDINGS.
 - 10 FEET BETWEEN THE FENCE AND THE TOE OF FILL SLOPES.
 - WHERE POSSIBLE, INSTALL THE SILT FENCE ON THE CONTOUR SO THAT RUNOFF GOES THROUGH THE SILT FENCE AND DOES NOT FLOW ALONG THE SILT FENCE AND POOL AT THE LOWEST POINT. WHERE SPOILING DOES OCCUR, SILT FENCE OUTLETS MAY BE NECESSARY TO PREVENT COLLAPSE.
 - CLEAR THE LOCATION OF THE SILT FENCE, CLEARING ONLY WHAT IS NEEDED TO PROVIDE ACCESS TO THE FENCE AND EQUIPMENT FOR INSTALLATION. IT IS PERMISSIBLE TO PLACE THE SILT FENCE IN THE EDGE OF EXISTING TRENCHES TO PROTECT THE FENCE FROM COLLAPSE. IT IS TAKEN TO PROTECT THESE TRENCHES DURING INSTALLATION. MAINTENANCE AND REMOVAL OF THE SILT FENCE IS EASIER AFTER CONSTRUCTION. DO NOT ATTACH THE FILTER FABRIC TO THE TREES, AS IT MAY BE BURNING THE TREE IMPOSSIBLE.
 - EXCAVATE A 6 X 6-INCH TRENCH ALONG THE LOCATION OF THE FENCE. USING A "DITCH WITCH" IS HELPFUL.
 - ALONG THE LOWER SIDE OF THE TRENCH, PLACE STEEL FENCE POSTS NO MORE THAN 6 FEET APART AND DRIVE THEM 18 INCHES INTO THE GROUND.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPSIDE SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LANGRIS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH AND THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET IN THE TRENCH AND COMPACT THE FILL.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE BARRIER.
 - FOR A SILT FENCE:
 - JUST BELOW THE GAP IN THE FENCE, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION BY OUTFLOW FROM THE OUTLET; PLACE 6 INCHES OF THE UPPER EDGE IN THE TRENCH. STAKE THE REMAINING EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE ADDITIONAL STEEL FENCE POSTS FOR STRENGTH. THE POSTS MUST BE A MAXIMUM OF 2 FEET APART AND DRIVE INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPSIDE SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LANGRIS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH, THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET, AND THE WIRE FENCE IN THE TRENCH AND COMPACT THE FILL.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE SILT FENCE.

MAINTENANCE

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIMES.

- INSPECT THE SILT FENCE OUTLET:
 - DURING CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE BARRIER, FENCE, OR OUTLET; IF DAMAGED, MAKE REPAIRS. TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE OUTLET, BLOCKING OUTFLOW; IF IT HAS, REMOVE THE MATERIAL, REPAIR THE DAMAGE, AND MOVE THE FENCE OR FILL SO THAT IT DOES NOT HAPPEN AGAIN.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE OUTLET HAS CAUSED DAMAGE BY UNDERMINING THE FENCE OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE OUTLET; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE FILTER FABRIC. PLACE THE SEDIMENT IN A DISPOSAL AREA, OR RISE IT WITH DRY SOIL ON THE SITE IF APPROPRIATE.
- REPAIR ANY BREAKS OR ROTTEN PLACES IN THE FILTER FABRIC.
- IF THE FENCE IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING RESISTS, ALWAYS RESTORE THE SILT FENCE TO ITS ORIGINAL DESIGN CONFIGURATION.

REMOVAL

- WHEN GRADING IN THE DRAINAGE AREA ABOVE THE SILT FENCE HAS BEEN COMPLETED AND THE DISTURBED AREA SUFFICIENTLY STABILIZED TO RESTRAIN EROSION, THE SILT FENCE AND ANY OUTLETS MUST BE REMOVED.
- REMOVE ANY ACCUMULATED SEDIMENT AND DISPOSE OF IT PROPERLY.
- REMOVE POSTS, FENCE, FABRIC, AND WASHED STONE; DISPOSE OF THEM PROPERLY.
- GRADE THE LOCATION AS NECESSARY.
- STABILIZE THE DISTURBED AREA WHERE THE OUTLET WAS LOCATED.

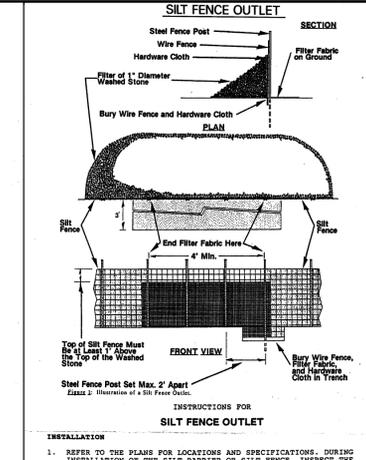


Figure 4: Illustration of Silt Fence Outlet Installation.

SILT FENCE OUTLET

INSTALLATION

- REFER TO PLANS FOR LOCATION AND SPECIFICATIONS. DURING INSTALLATION OF THE SILT BARRIER OR SILT FENCE, INSPECT THE OUTLET TO DETERMINE IF OUTLETS ARE NEEDED ACCORDING TO THE CRITERIA SET FORTH IN THE SPECIFICATIONS FOR THE BARRIER AND FENCE. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED DIVERSIONS AS AN AID TO INSTALLATION.
- IF THE SILT FENCE OUTLET IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE EXACT LOCATION OF THE OUTLET BEFORE COMPLETING INSTALLATION OF THE SILT BARRIER OR SILT FENCE, TAKING INTO CONSIDERATION:
 - INSTALL THE OUTLET AT THE LOWEST POINT(S) IN THE BARRIER OR FENCE WHERE WATER WILL FLOW.
 - INSTALL THE OUTLET WHERE IT IS ACCESSIBLE FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
 - ALLOW AT LEAST:
 - 15 FEET BETWEEN THE BARRIER OR FENCE AND SINGLE-STORY BUILDINGS.
 - 25 FEET FOR FORK LIFTS BETWEEN THE BARRIER OR FENCE AND MULTIPLE-STORY BUILDINGS.
 - 10 FEET BETWEEN THE BARRIER OR FENCE AND THE TOE OF FILL SLOPES.
 - PLACE THE OUTLET SO THAT WATER FLOWING THROUGH IT WILL NOT CREATE AN EROSION HAZARD BELOW AND UP STEEP SLOPES BELOW THE OUTLET AND AREAS WITHOUT PROTECTIVE VEGETATION. USE SLOPE STAIRS IF NECESSARY.
 - DETERMINE THE LOCATION OF THE OUTLET; FOR A SILT BARRIER, WHEN THE TRENCH IS DUG TO BURY THE BOTTOM OF THE FABRIC BECAUSE THE BARRIER WILL BE CLOTTED AT THE OUTLET FOR A SILT FENCE, THE WIRE FENCE IS IN PLACE BECAUSE THE FILTER FABRIC WILL BE CLOTTED AT THE OUTLET.
- REFER TO THE ILLUSTRATIONS OF THE OUTLET IN THE PLAN.
- CLEAR STUMPS AND ROOTS FROM THE LOCATION OF THE OUTLET. CLEAR ADEQUATE ACCESS FOR THE EQUIPMENT NEEDED FOR INSTALLATION, MAINTENANCE, AND REMOVAL.
- FOR A SILT BARRIER:
 - JUST BELOW THE GAP IN THE FENCE, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION BY OUTFLOW FROM THE OUTLET; PLACE 6 INCHES OF THE UPPER EDGE IN THE TRENCH. STAKE THE REMAINING EDGES OF THE FABRIC TO HOLD IT IN PLACE.
 - ALONG THE GAP WHERE THE OUTLET WILL GO, PLACE ADDITIONAL STEEL FENCE POSTS FOR STRENGTH. THE POSTS MUST BE A MAXIMUM OF 2 FEET APART AND DRIVE INTO SOLID GROUND AT LEAST 18 INCHES.
 - PLACE HARDWARE CLOTH (WELDED GALVANIZED SCREEN WITH SQUARE 1/4 - 1/2-INCH HOLES) ON THE UPSIDE SIDE OF THE POSTS TO HOLD THE WASHED STONE IN PLACE. PUT 6 INCHES OF THE BOTTOM OF THE CLOTH IN THE TRENCH AND FASTEN IT TO THE POSTS WITH LANGRIS OF WIRE.
 - BURY THE BOTTOM OF THE HARDWARE CLOTH AND THE UPPER EDGE OF THE FILTER FABRIC BELOW THE OUTLET IN THE TRENCH AND COMPACT THE FILL.
 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE BARRIER.
- FOR A SILT FENCE:
 - JUST BELOW THE GAP IN THE FENCE, PLACE A LAYER OF FILTER FABRIC ON THE GROUND TO PROTECT THE SOIL FROM EROSION BY OUTFLOW FROM THE OUTLET; PLACE 6 INCHES OF THE UPPER EDGE IN THE TRENCH. STAKE THE REMAINING EDGES OF THE FABRIC TO HOLD IT IN PLACE.
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 - PLACE A FILTER OF 1-INCH DIAMETER WASHED STONE ON THE UPSIDE SIDE OF THE OUTLET. FILL THE STONE UP TO THE TOP OF THE HARDWARE CLOTH AND OVER THE JOINT BETWEEN THE OUTLET AND THE SILT FENCE.

MAINTENANCE

MATERIALS, EQUIPMENT, AND PERSONNEL MUST BE AVAILABLE FOR MAINTENANCE AT ALL TIMES.

- INSPECT THE SILT FENCE OUTLET:
 - DURING CONSTRUCTION: TO DETERMINE IF MACHINERY, FALLING TREES, ETC. HAVE DAMAGED THE BARRIER, FENCE, OR OUTLET; IF DAMAGED, MAKE REPAIRS. TO SEE THAT FILL MATERIAL HAS NOT ACCUMULATED AGAINST THE OUTLET, BLOCKING OUTFLOW; IF IT HAS, REMOVE THE MATERIAL, REPAIR THE DAMAGE, AND MOVE THE FENCE OR FILL SO THAT IT DOES NOT HAPPEN AGAIN.
 - AFTER EACH RAINFALL: TO DETERMINE IF RUNOFF FLOWING THROUGH THE OUTLET HAS CAUSED DAMAGE BY UNDERMINING THE FENCE OR OUTLET, OR IF ACCUMULATED WATER HAS COLLAPSED THE OUTLET; IF IT HAS, MAKE REPAIRS OR INSTALL A SEDIMENT TRAP IF NECESSARY TO PREVENT FUTURE FAILURES.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF ONE-HALF THE HEIGHT OF THE FILTER FABRIC. PLACE THE SEDIMENT IN A DISPOSAL AREA, OR RISE IT WITH DRY SOIL ON THE SITE IF APPROPRIATE.
- REPAIR ANY BREAKS OR ROTTEN PLACES IN THE FILTER FABRIC.
- IF THE FENCE IS SAGGING BETWEEN POSTS, INSTALL ADDITIONAL POSTS.
- WHEN RAINING RESISTS, ALWAYS RESTORE THE SILT FENCE TO ITS ORIGINAL DESIGN CONFIGURATION.

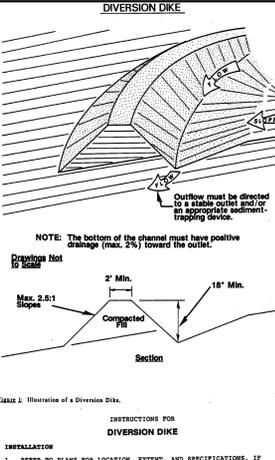


Figure 5: Illustration of a Diversion Dike.

DIVERSION DIKE

INSTALLATION

- REFER TO PLANS FOR LOCATION, EXTENT, AND SPECIFICATIONS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, OR METHODS OF INSTALLATION, CONTACT THE ENGINEER, ARCHITECT, OR RESPONSIBLE PERSONNEL ON THE SITE FOR ASSISTANCE. EROSION CONTROL PERSONNEL HAVE COPIES OF INSTRUCTIONS AND MAY HAVE PHOTOGRAPHS OF PROPERLY INSTALLED DIVERSIONS AS AN AID TO INSTALLATION.
- IF THE DIVERSION DIKE IS NOT INSTALLED CORRECTLY THE FIRST TIME, IT WILL HAVE TO BE REBUILT.
- DETERMINE THE LOCATION ON THE GROUND TAKING INTO CONSIDERATION:
 - CONSIDER THE LOCATION OF THE SEDIMENT-TRAPPING DEVICES (SEDIMENT TRAP OR POOL, WHEN LOCATING AND BUILDING THE DIVERSION. THE DIVERSION MUST BE LOCATED UPSTREAM OF THE SEDIMENT-TRAPPING DEVICES. THE HAZARD GRADE IS 19".
 - THE DIVERSION MUST HAVE POSITIVE DRAINAGE TO THE SEDIMENT-TRAPPING DEVICES.
 - ALLOW SUFFICIENT SPACE FOR MAINTENANCE AND REMOVAL BETWEEN THE TOE OF THE FILL SLOPE AND THE DIVERSION. IF NECESSARY, HAVE SLOPE STAIRS, BUILDING CORNERS, STORM DRAINS, AND OTHER STRUCTURES TO BE INSTALLED. KNOW WHERE THE TOE OF FILL SLOPES WILL EXTEND SO THAT SUFFICIENT ROOM IS LEFT BETWEEN THE TOE AND DIVERSION FOR MAINTENANCE, REPAIR, AND REMOVAL.
 - ALLOW AT LEAST:
 - 15 FEET BETWEEN THE BARRIER OR FENCE AND SINGLE-STORY BUILDINGS.
 - 25 FEET FOR FORK LIFTS BETWEEN THE BARRIER OR FENCE AND MULTIPLE-STORY BUILDINGS.
 - 10 FEET BETWEEN THE BARRIER OR FENCE AND THE TOE OF FILL SLOPES.
 - GRADE THE CHANNEL AND HOLD THE BACK OF THE DIKE TO BE HIGHER THAN A 1% SLOPE. THE COMPLETED DIVERSION MUST BE AT LEAST 18 INCHES DEEP, MEASURED FROM THE BOTTOM OF THE CHANNEL TO THE TOP OF THE DIKE.
 - CHECK THE BOTTOM OF THE CHANNEL TO INSURE POSITIVE DRAINAGE IN THE DESIRED DIRECTION.
 - REMOVE ROOTS, STUMPS, AND OTHER DEBRIS AND DISPOSE OF THEM PROPERLY. DO NOT USE DEBRIS TO BUILD THE DIKE.
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 - GRADE THE CHANNEL AND HOLD THE BACK OF THE DIKE TO BE HIGHER THAN A 1% SLOPE. THE COMPLETED DIVERSION MUST BE AT LEAST 18 INCHES DEEP, MEASURED FROM THE BOTTOM OF THE CHANNEL TO THE TOP OF THE DIKE.
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