

- GENERAL NOTES**
- ALL WORK AND MATERIALS FOR STREET MODIFICATIONS SHALL CONFORM TO THE LATEST EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
  - ALL ASPHALT CUTS SHALL BE MADE WITH A SAW.
  - WHEN PLACING ASPHALT AGAINST EXISTING SURFACES, A STRAIGHT EDGE SHALL BE USED TO PREVENT HUMPING AT THE LOCATION.
  - ALL CONCRETE SHALL BE MADE OF TYPE-1 CEMENT WITH 4-5% AIR ENTRAINMENT AND ACHIEVE A 28-DAY STRENGTH OF 3,600 PSI.
  - ALL NEW CONCRETE SHALL BE CURED WITH 100% RESIN BASE, WHITE PIGMENTED CURING COMPOUND WHICH MEETS ASTM C-309. APPLY AT A UNIFORM RATE OF 1 GALLON OVER 400 SQ. FT. WITH IN 24-HOURS OF INITIAL PLACEMENT.
  - NEW CURBS SHALL BE BACK FILLED WITH IN 48-HOURS.
  - ALL EXCESS CONCRETE ON FRONT EDGE (LIP) OF GUTTER SHALL BE REMOVED FOR A CLEAN EDGE.
  - SUB-GRADE FOR NEW PAVEMENT, CURBS, AND CONCRETE PADS SHALL BE COMPACTED TO 100% OF THE MAXIMUM DENSITY OBTAINABLE BY THE STANDARD PROCTOR TEST TO A DEPTH OF 6". SUB-GRADE BELOW 6" IN DEPTH SHALL BE COMPACTED TO 95% MAXIMUM DENSITY BY THE STANDARD PROCTOR TEST.
  - CONCRETE OR ASPHALT SHALL NOT BE PLACED IN COLD WEATHER CONDITIONS UNTIL THE AIR TEMPERATURE IS 35°F AND RISING BY 10 A.M. CONCRETE OR PAVING OPERATIONS SHALL BE DISCONTINUED WHEN THE AIR TEMPERATURE IS 40°F AND FALLING. THE CONTRACTOR SHALL PROTECT FRESHLY PLACED CONCRETE WITH SECTION 420 OF NCDOT STANDARD SPECS. WHEN THE AIR TEMPERATURE IS 35°F AND THE CONCRETE HAS NOT REACHED 72-HOURS OF AGE.
  - SIDEWALKS AND OTHER CONCRETE WALKS SHALL BE CONSTRUCTED OF NOT LESS THAN 3,600 PSI CONCRETE AND SHALL BE NOT LESS THAN 4" THICK ON AN ADEQUATELY GRADED BASE. SUB-GRADE SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY BY THE STANDARD PROCTOR TEST.
  - ALL DIMENSIONS ARE TO THE FACE OF CURB (FOC) OR EDGE OF PAVEMENT (EOP) UNLESS SPECIFIED OTHERWISE.
  - ALL TRAFFIC SIGNS, STRIPE PAINTING, ETC. SHALL CONFORM TO THE PRINCIPLES SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
  - ALL CONSTRUCTION SHALL CONFORM TO THE CHARLOTTE/MECKLENBURG LAND DEVELOPMENT DETAILS AND SPECIFICATIONS.
  - ALL CURB CUTS SHALL BE MADE WITH A SAW AND ALL ELEVATIONS SHALL BE VERIFIED AND MATCHED.
  - NEW DRIVEWAYS SHALL BE PERMITTED BY CITY OF CHARLOTTE ENGINEERING.
  - STONE BASE SHALL BE PRIMED IF PAVING IS NOT COMPLETED IN SEVEN DAYS FOLLOWING STONE BASE APPROVAL.
  - A CANVAS COVER OR OTHER SUITABLE COVER SHALL BE REQUIRED FOR TRANSPORTING PLANT MIX ASPHALT DURING COOL WEATHER WHEN ANY OF THE FOLLOWING CONDITIONS ARE PRESENT:
    - AIR TEMPERATURE IS BELOW 60°F.
    - LENGTH OF HAUL FROM PLANT TO JOB IS GREATER THAN 5 MILES.
    - OTHER OCCASIONS AT THE ENGINEER'S DISCRETION WHEN A COMBINATION OF FACTORS INDICATE THAT MATERIAL SHOULD BE COVERED IN ORDER TO ASSURE PROPER PLACEMENT TEMPERATURE.
  - NON-STANDARD ITEMS (i.e. PAVERS, IRRIGATION SYSTEMS, ETC.) IN THE RIGHT-OF-WAY REQUIRE A RIGHT-OF-WAY ENCROACHMENT AGREEMENT WITH CHARLOTTE DEPARTMENT OF TRANSPORTATION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING NCDOT UTILITY ENCROACHMENT PERMITS FOR INSTALLATION OF WATER, SEWER, GAS, ETC. TAPS. CONTRACTOR SHALL BEAR ALL COSTS FOR DESIGN, FEES, ETC. IN OBTAINING REQUIRED ENCROACHMENT PERMITS.
  - SITE PLUMBING CONTRACTOR SHALL BE LICENSED IN THE STATE OF NORTH CAROLINA TO PERFORM WORK OF THE SIZE AND SCOPE INDICATED. THE CONTRACTOR SHALL PAY ALL LICENSE AND TAP FEES ASSOCIATED WITH HIS WORK AND SHALL GUARANTEE HIS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE-YEAR FROM FINAL ACCEPTANCE BY THE OWNER. THE WATER HEATER TANK SHALL CARRY A FIVE-YEAR WARRANTY ON THE HEATER TANK.
  - ENTIRE PLUMBING INSTALLATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH STATE AND LOCAL PLUMBING CODES.
  - THE SANITARY SEWER PIPING SHALL BE PVC TYPE DWV WITH CEMENTED JOINTS.
  - WATER PIPING OUTSIDE OF BUILDING SHALL BE TYPE "M" SOFT DRAWN COPPER TUBING. FITTINGS SHALL BE WROUGHT COPPER WITH SOLDERED JOINTS MADE WITH 95-5 TIN-ANTIMONY SOLDER. ANY PIPING ABOVE GRADE SHALL BE INSULATED WITH 1½" OF FOAMED PLASTIC INSULATION.
  - EACH CMUD-REQUIRED BPA IS REQUIRED TO BE TESTED BY A CMUD-APPROVED CERTIFIED TESTER PRIOR TO PLACING WATER SYSTEM IN SERVICE.
  - THERE SHALL BE NO TAPS, PIPING BRANCHES, UNAPPROVED BYPASS PIPING, HYDRANTS, FIRE DEPT. CONNECTION PORTS, OR OTHER WATER-USING APPURTENANCES CONNECTED TO THE SUPPLY LINE BETWEEN ANY METER AND ITS CMUD-REQUIRED BACKFLOW PREVENTER.
  - POST ASSIGNED BUILDING PERMIT NUMBER AND ADDRESS ON THE BUILDING.
  - ALL UTILITIES ARE TO BE UNDERGROUND.
  - ALL SIGNS SHALL BE APPROVED AND PERMITTED SEPARATELY.
  - CONTACT THE UTILITY COMPANY TO RELOCATE ANY EXISTING UTILITY POLES. ALL EXISTING FACILITIES WHICH CONFLICT WITH THE IMPROVEMENTS UNDER THE SCOPE OF THIS PROJECT MUST BE RELOCATED AT THE EXPENSE OF THE APPLICANT.
  - ALL DEVELOPMENT CREATING A TOTAL OF 20,000 SQUARE FEET OF IMPERVIOUS AREA SINCE SEPTEMBER 1978 WILL REQUIRE STORM DRAINAGE DETENTION.

- KEY LEGEND**
- PROPOSED CONCRETE SIDEWALK (ON GRADE) - SEE DETAIL 1, SHT. C-5
  - PROPOSED HEAVY-DUTY ASPHALT PAVEMENT CAPABLE OF SUPPORTING AN 80,000 LB LOADING - SEE DETAIL 2, SHT. C-5
  - HANDICAP ACCESSIBLE PARKING SPACE & SIGNAGE - SEE DETAIL 3, SHT. C-5
  - EXISTING 2" REDUCED PRESSURE PRINCIPLE BACK FLOW PREVENTER (WATTS MODEL #009M201RP) LOCATED IN INSULATED ENCLOSURE WITH DRAIN PORT
  - OMITTED
  - 2" DOMESTIC WATER SUPPLY LINE
  - 4" BRASS CLEAN OUT WITH 16" SQ. x 4" THICK CONC. PAD - SEE PLUMBING PLANS (MAX. 100-FT. O.C.)
  - 4" PVC SANITARY SEWER @ 2.0% SLOPE
  - DUKE POWER TO INSTALL NEW POWER POLE W/ POLE MOUNTED TRANSFORMER
  - BUILDING ELECTRICAL SUPPLY - SEE ELECTRICAL DWG'S.
  - PRECAST CONCRETE WHEEL STOP (12 REQUIRED) - SEE DETAIL 4, SHT. C-5
  - SEGMENTAL BLOCK RETAINING WALL - TO BE DESIGNED AND SUPPLIED BY CONTRACTOR (FINAL COLOR SELECTION BY ARCH/OWNER)
  - MONUMENT STAIRS W/ HANDRAILS - SEE ARCH. DWG'S. FOR MORE INFORMATION
  - 2" GAS SUPPLY (VERIFY SIZE W/ MECH. DWG'S.) - COORDINATE W/ LOCAL AUTHORITY FOR ROUTING, CONNECTION, ETC.

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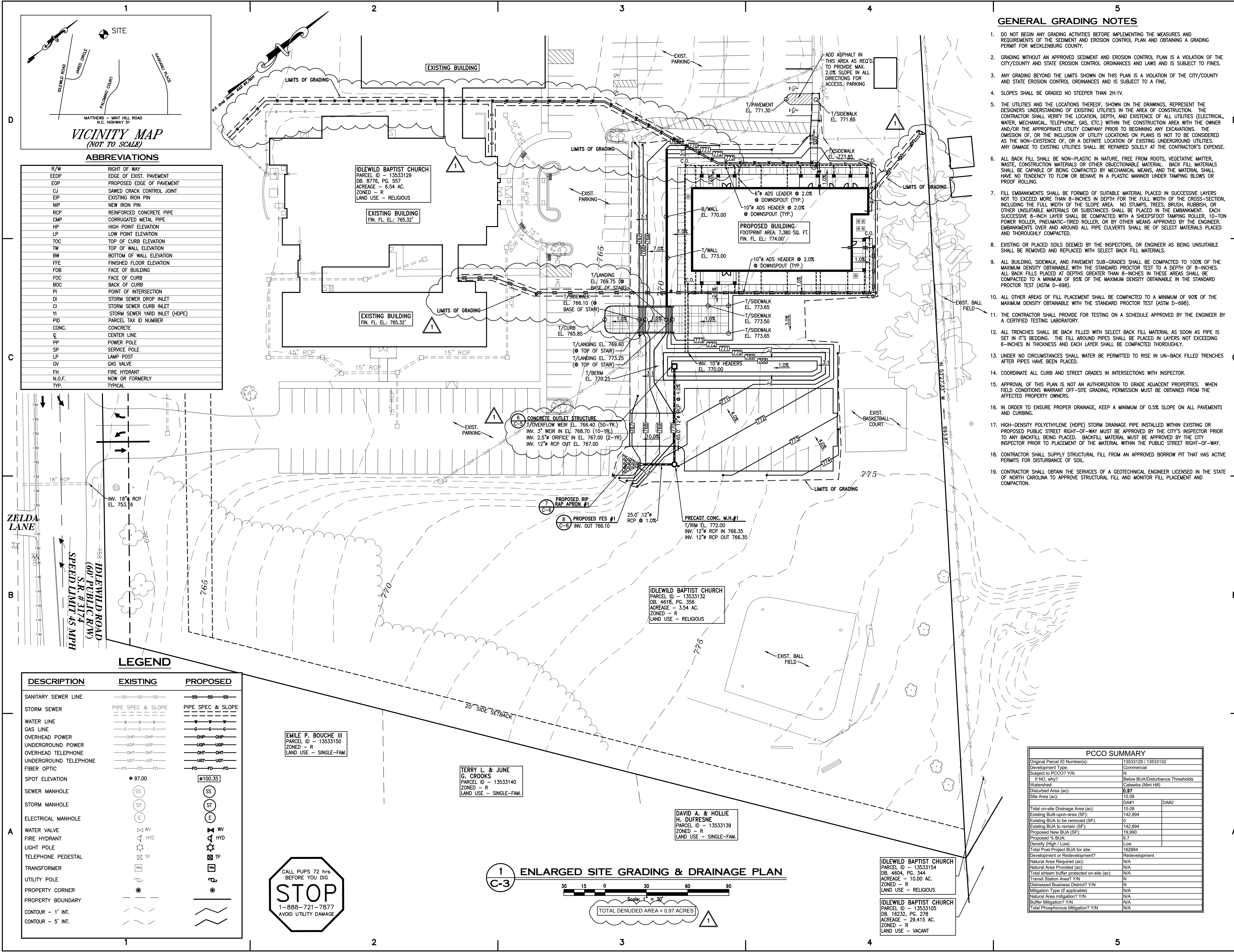
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ISSUE: CONSTRUCTION  
 PROJECT NO: S13064  
 CAD DWG FILE: S13064-C-2.dwg  
 DRAWN BY: TMB  
 CHECKED BY: TMB

**SHEET TITLE**  
**ENLARGED SITE LAYOUT, PAVING & UTILITIES PLAN**

**C-2**





GENERAL GRADING NOTES

- DO NOT BEGIN ANY GRADING ACTIVITIES BEFORE IMPLEMENTING THE MEASURES AND REQUIREMENTS OF THE SEDIMENT AND EROSION CONTROL PLAN AND OBTAINING A GRADING PERMIT FOR MECKLENBURG COUNTY.
- GRADING WITHOUT AN APPROVED SEDIMENT AND EROSION CONTROL PLAN IS A VIOLATION OF THE CITY/COUNTY AND STATE EROSION CONTROL ORDINANCES AND LAWS AND IS SUBJECT TO FINES.
- ANY GRADING BEYOND THE LIMITS SHOWN ON THIS PLAN IS A VIOLATION OF THE CITY/COUNTY AND STATE EROSION CONTROL ORDINANCES AND IS SUBJECT TO A FINE.
- SLOPES SHALL BE GRADED NO STEEPER THAN 2H:1V.
- THE UTILITIES AND THE LOCATIONS THEREOF, SHOWN ON THE DRAWINGS, REPRESENT THE DESIGNER'S UNDERSTANDING OF EXISTING UTILITIES IN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND EXISTENCE OF ALL UTILITIES (ELECTRIC, WATER, MECHANICAL, TELEPHONE, GAS, ETC.) WITHIN THE CONSTRUCTION AREA WITH THE OWNER AND/OR THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING ANY EXCAVATIONS. THE OMISSION OF, OR THE INCLUSION OF UTILITY LOCATIONS ON PLANS IS NOT TO BE CONSIDERED AS THE NON-EXISTENCE OF, OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED SOLELY AT THE CONTRACTOR'S EXPENSE.
- ALL BACK FILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATIVE MATTER, WASTE, CONSTRUCTION MATERIALS OR OTHER OBJECTIONABLE MATERIAL. BACK FILL MATERIALS SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS, AND THE MATERIAL SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER TAMPING BLOWS OR POWER ROLLING.
- FILL EMBANKMENTS SHALL BE FORMED OF SUITABLE MATERIAL PLACED IN SUCCESSIVE LAYERS NOT TO EXCEED MORE THAN 8-INCHES IN DEPTH FOR THE FULL WIDTH OF THE CROSS-SECTION, INCLUDING THE FULL WIDTH OF THE SLOPE AREA. NO STUMPS, TREES, BRUSH, RUBBISH, OR OTHER UNSUITABLE MATERIALS OR SUBSTANCES SHALL BE PLACED IN THE EMBANKMENT. EACH SUCCESSIVE 8-INCH LAYER SHALL BE COMPACTED WITH A SHEEPSFOOT TAMPING ROLLER, 10-TON POWER ROLLER, PNEUMATIC-TIRED ROLLER, OR BY OTHER MEANS APPROVED BY THE ENGINEER. EMBANKMENTS OVER AND AROUND ALL PIPE CULVERTS SHALL BE OF SELECT MATERIALS PLACED AND THOROUGHLY COMPACTED.
- EXISTING OR PLACED SOILS DEEMED BY THE INSPECTORS, OR ENGINEER AS BEING UNSUITABLE SHALL BE REMOVED AND REPLACED WITH SELECT BACK FILL MATERIALS.
- ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 100% OF THE MAXIMUM DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST TO A DEPTH OF 8-INCHES. ALL BACK FILLS PLACED AT DEPTHS GREATER THAN 8-INCHES IN THESE AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DENSITY OBTAINABLE IN THE STANDARD PROCTOR TEST (ASTM D-698).
- ALL OTHER AREAS OF FILL PLACEMENT SHALL BE COMPACTED TO A MINIMUM OF 90% OF THE MAXIMUM DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST (ASTM D-698).
- THE CONTRACTOR SHALL PROVIDE FOR TESTING ON A SCHEDULE APPROVED BY THE ENGINEER BY A CERTIFIED TESTING LABORATORY.
- ALL TRENCHES SHALL BE BACK FILLED WITH SELECT BACK FILL MATERIAL AS SOON AS PIPE IS SET IN IT'S BEDDING. THE FILL AROUND PIPES SHALL BE PLACED IN LAYERS NOT EXCEEDING 6-INCHES IN THICKNESS AND EACH LAYER SHALL BE COMPACTED THOROUGHLY.
- UNDER NO CIRCUMSTANCES SHALL WATER BE PERMITTED TO RISE IN UN-BACK FILLED TRENCHES AFTER PIPES HAVE BEEN PLACED.
- COORDINATE ALL CURB AND STREET GRADES IN INTERSECTIONS WITH INSPECTOR.
- 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 ALL PAVEMENTS AND CURBING.
- HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINAGE PIPE INSTALLED WITHIN EXISTING OR PROPOSED PUBLIC STREET RIGHT-OF-WAY MUST BE APPROVED BY THE CITY'S INSPECTOR PRIOR TO ANY BACKFILL BEING DEPOSITED. BACKFILL MATERIAL MUST BE APPROVED BY THE CITY INSPECTOR PRIOR TO PLACEMENT OF THE MATERIAL WITHIN THE PUBLIC STREET RIGHT-OF-WAY.
- CONTRACTOR SHALL SUPPLY STRUCTURAL FILL FROM AN APPROVED BORROW PIT THAT HAS ACTIVE PERMITS FOR DISTURBANCE OF SOIL.
- CONTRACTOR SHALL OBTAIN THE SERVICES OF A GEOTECHNICAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA TO APPROVE STRUCTURAL FILL AND MONITOR FILL PLACEMENT AND COMPACTION.

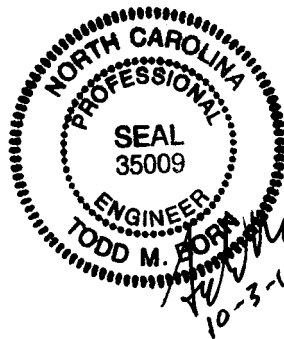
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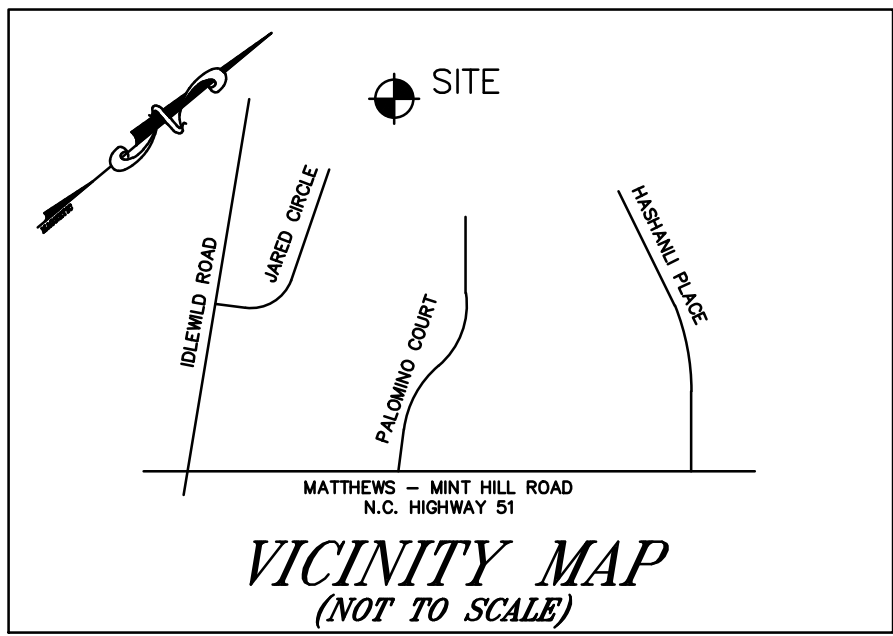
PCCO SUMMARY			
Original Parcel ID Number(s):	13533129 / 13533132		
Development Type:	Commercial		
Subject to PCCO? Y/N	N		
If NO, why?	Below BUA Disturbance Thresholds		
Watershed:	Catawba (Mint Hill)		
Disturbed Area (ac):	0.97		
Site Area (ac):	10.08		
Total on-site Drainage Area (ac):	DA#1	DA#2	
Existing Built-upon-area (SF):	142,894		
Existing BUA to be removed (SF):	0		
Existing BUA to remain (SF):	142,894		
Proposed New BUA (SF):	19,990		
Proposed % BUA:	6.7		
Density (High / Low):	Low		
Total Post-Project BUA for site:	162,884		
Development or Redevelopment?	N/A		
Natural Area Required (ac):	N/A		
Natural Area Provided (ac):	N/A		
Total stream buffer protected on-site (ac):	N/A		
Transit Station Area? Y/N	N		
Distressed Business District? Y/N	N		
Mitigation Type (if applicable)	N/A		
Natural Area mitigation? Y/N	N/A		
Buffer Mitigation? Y/N	N/A		
Total Phosphorous Mitigation? Y/N	N/A		

SHEET TITLE

ENLARGED SITE  
GRADING &  
DRAINAGE PLAN

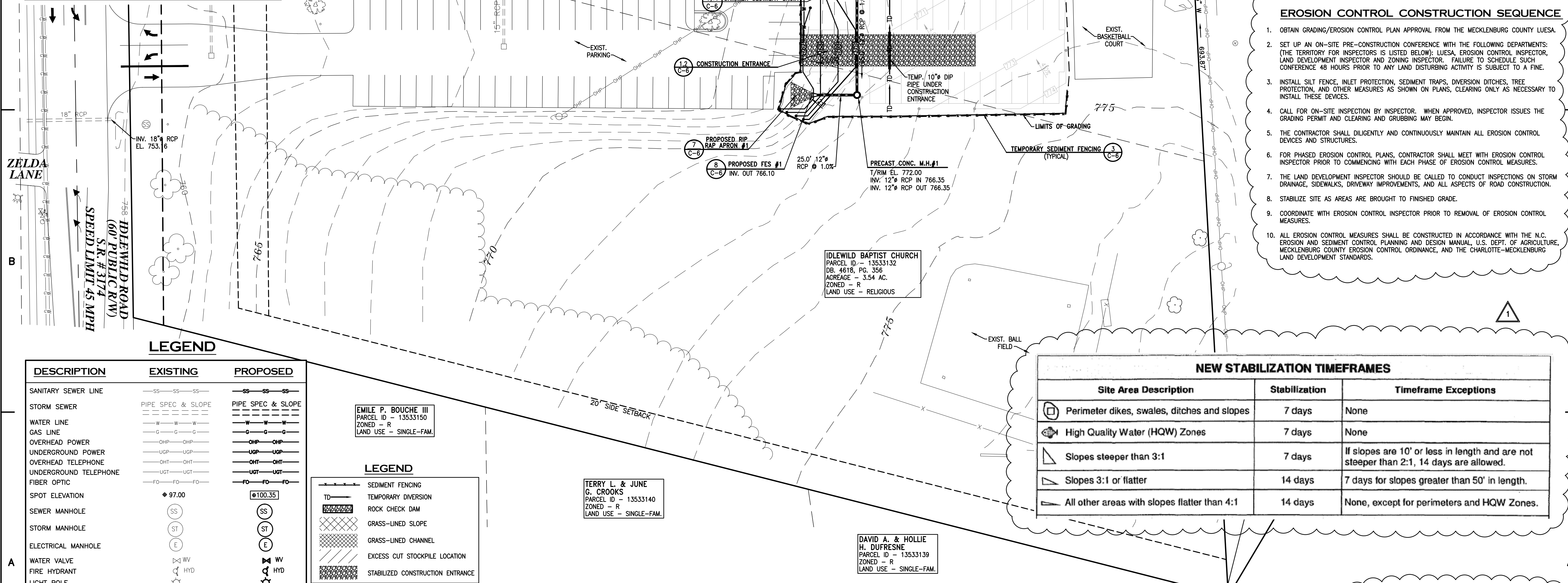
C-3





ABBREVIATIONS

R/W	RIGHT OF WAY
EEOP	EDGE OF EXIST. PAVEMENT
EOP	PROPOSED EDGE OF PAVEMENT
CJ	SAWED CRACK CONTROL JOINT
EIP	EXISTING IRON PIN
NIP	NEW IRON PIN
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
HP	HIGH POINT ELEVATION
LP	LOW POINT ELEVATION
TOC	TOP OF CURB ELEVATION
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
FFE	FINISHED FLOOR ELEVATION
FOB	FACE OF BUILDING
FOC	FACE OF CURB
BOC	BACK OF CURB
PI	POINT OF INTERSECTION
DI	STORM SEWER DROP INLET
CI	STORM SEWER CURB INLET
YI	STORM SEWER YARD INLET (HOPE)
PID	PARCEL TAX ID NUMBER
CONC.	CONCRETE
C	CENTER LINE
PP	POWER POLE
SP	SERVICE POLE
LP	LAMP POST
GV	GAS VALVE
FH	FIRE HYDRANT
N.O.F.	NOW OR FORMERLY
TYP.	TYPICAL

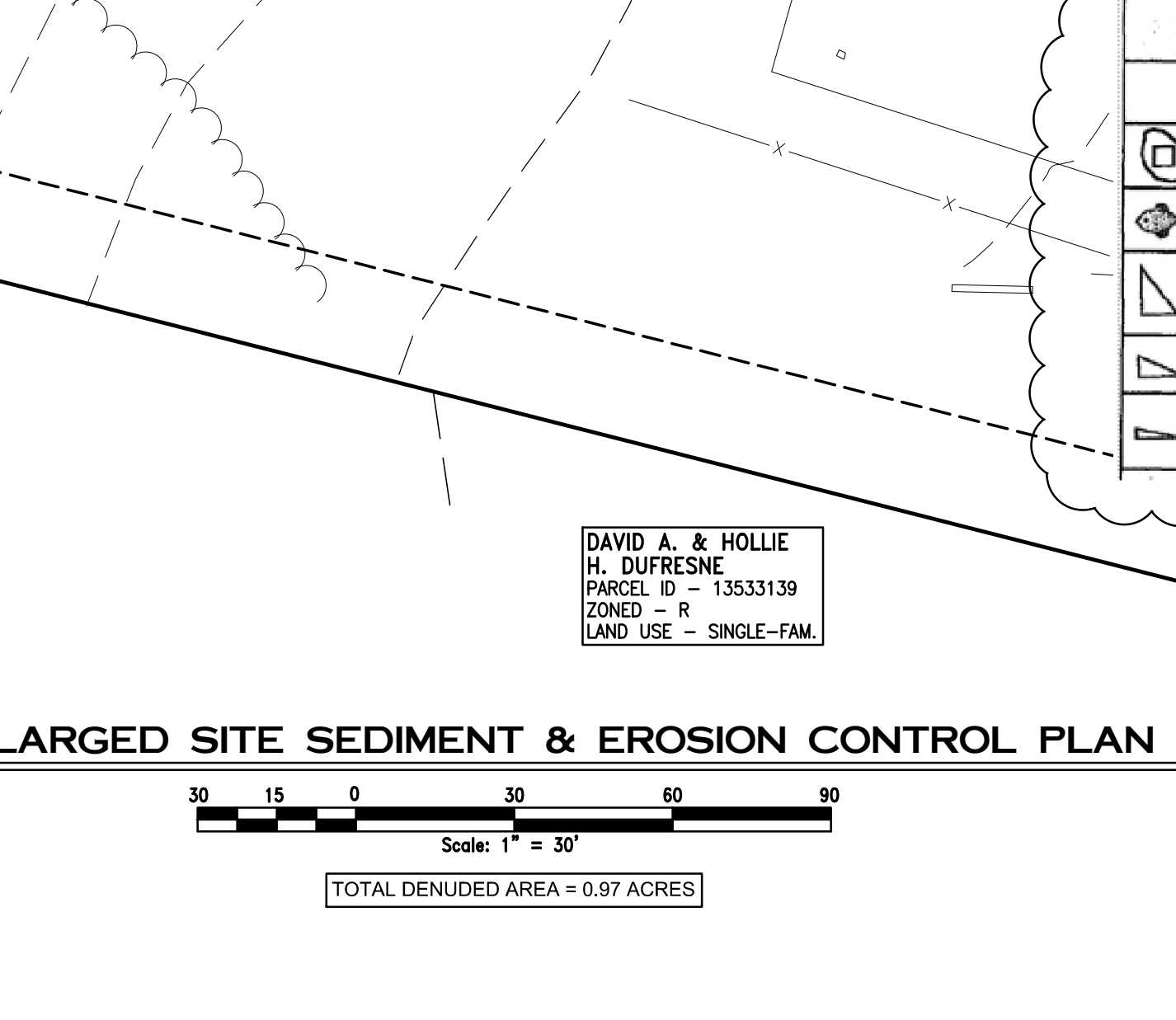
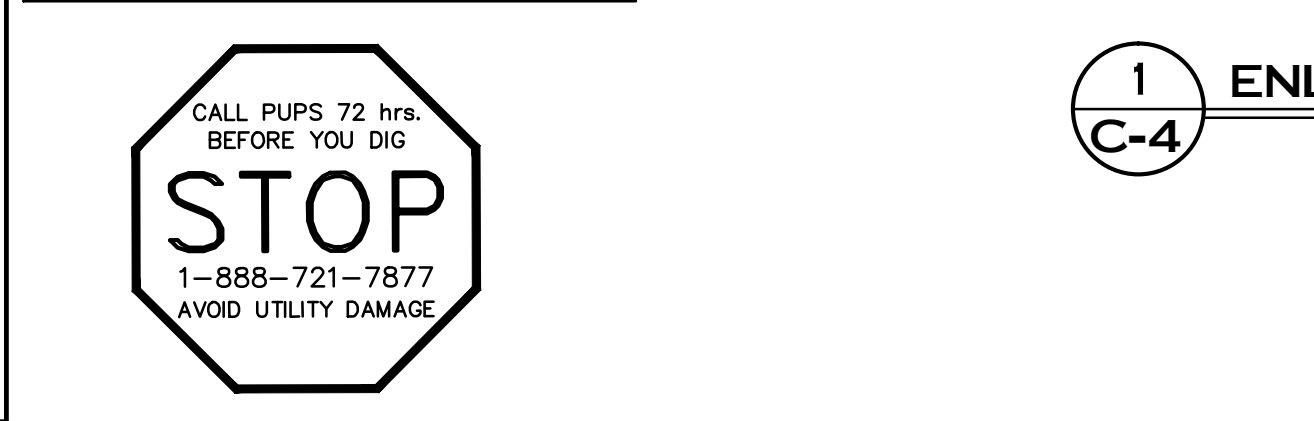


LEGEND

DESCRIPTION	EXISTING	PROPOSED
SANITARY SEWER LINE	SS	SS
STORM SEWER	SS	SS
WATER LINE	W	W
GAS LINE	G	G
OVERHEAD POWER	OHP	OHP
UNDERGROUND POWER	UGP	UGP
OVERHEAD TELEPHONE	OHT	OHT
UNDERGROUND TELEPHONE	UGT	UGT
FIBER OPTIC	FO	FO
SPOT ELEVATION	97.00	100.35
SEWER MANHOLE	SS	SS
STORM MANHOLE	ST	ST
ELECTRICAL MANHOLE	E	E
WATER VALVE	WV	WV
FIRE HYDRANT	HYD	HYD
LIGHT POLE	LP	LP
TELEPHONE PEDESTAL	TP	TP
TRANSFORMER	TR	TR
UTILITY POLE	UP	UP
PROPERTY CORNER	PC	PC
PROPERTY BOUNDARY	PB	PB
CONTOUR - 1' INT.		
CONTOUR - 5' INT.		

LEGEND

TD	SEDIMENT FENCING
TD	TEMPORARY DIVERSION
TD	ROCK CHECK DAM
TD	GRASS-LINED SLOPE
TD	GRASS-LINED CHANNEL
TD	EXCESS CUT STOCKPILE LOCATION
TD	STABILIZED CONSTRUCTION ENTRANCE



NEW STABILIZATION TIMEFRAMES

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales, ditches and slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

INSPECTOR NAMES & CONTACT

EROSION CONTROL & WATER QUALITY INSPECTOR: JASON KLINGER - MINT HILL (980) 721-3567
LAND DEVELOPMENT INSPECTOR: MITCH COMBS - MATTHEWS, MINT HILL, PINEVILLE (980) 722-8468
ZONING INSPECTOR: DAVID BARLEY - MATTHEWS, MINT HILL, PINEVILLE (704) 507-3380

- GENERAL EROSION CONTROL NOTES
- ALL "STD." NUMBERS REFER TO THE MECKLENBURG COUNTY LAND DEVELOPMENT STANDARDS MANUAL (MCLDS) AND/OR THE TOWN OF PINEVILLE'S ENGINEERING STANDARDS AND PROCEDURES.
  - 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 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 COUNTY EROSION CONTROL ORDINANCE AND IS SUBJECT TO A FINE.
  - ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE STABILIZED WITHIN 7 DAYS. ALL OTHER DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS. SEE STABILIZATION TIMEFRAMES SCHEDULE THIS DRAWING FOR MORE INFORMATION.
  - ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY A REPRESENTATIVE OF THE COUNTY.
  - A GRADING PLAN MUST BE SUBMITTED FOR ANY LOT GRADING EXCEEDING ONE ACRE THAT WAS NOT PREVIOUSLY APPROVED.
  - TEMPORARY DRIVEWAY PERMIT FOR CONSTRUCTION ENTRANCES IN NCDOT RIGHT OF WAY MUST BE PRESENTED AT PRE-CONSTRUCTION MEETING.
  - ALL EMBANKMENTS MUST BE CONSTRUCTED PER SECTION 4.0.6 EMBANKMENT REQUIREMENTS IN THE BMP DESIGN MANUAL.
  - SLOPES SHALL BE GRADED NO STEEPER THAN 2:1. SLOPES GREATER THAN 10 FEET REQUIRE ADEQUATE TERRACING (MCLDS # 30.16). SOILS ENGINEER TO VERIFY STABILITY OF SLOPES GREATER THAN 2:1.
  - SOIL COMPACTION TESTS ARE REQUIRED ON ANY BERM  $\geq 5'$  IN HEIGHT FROM THE NATURAL GRADE. SOIL COMPACTION MUST BE AT 95% OF THE STANDARD PROCTOR AND CERTIFIED BY A LICENSED SOIL ENGINEER.
  - THE DEVELOPER ENGAGED IN OR CONDUCTING THE LAND-DISTURBING ACTIVITY SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES AND FACILITIES DURING THE DEVELOPMENT OF A SITE, AS REQUIRED BY THE APPROVED PLAN.
  - ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
  - THE DEVELOPER SHALL MAINTAIN EACH STREAM, CREEK, OR BROOKWASH CHANNEL IN AN UNOBSTRUCTED STATE AND SHALL REMOVE FROM THE CHANNEL AND BANKS OF THE STREAM ALL DEBRIS, LOGS, TIMBER, JUNK, AND OTHER ACCUMULATIONS.
  - THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY NEAR CONSTRUCTION AREAS. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
  - ALL LAND-DISTURBING ACTIVITIES, INCLUDING THOSE THAT DISTURB LESS THAN AN ACRE, SHALL PROVIDE ADEQUATE EROSION CONTROL MEASURES, STRUCTURES, OR DEVICES IN ACCORDANCE WITH THE MECKLENBURG COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.

- EROSION CONTROL CONSTRUCTION SEQUENCE
- OBTAIN GRADING/EROSION CONTROL PLAN APPROVAL FROM THE MECKLENBURG COUNTY LUESA.
  - SET UP AN ON-SITE PRE-CONSTRUCTION CONFERENCE WITH THE FOLLOWING DEPARTMENTS: (THE TERRITORY FOR INSPECTORS IS LISTED BELOW); LUESA, EROSION CONTROL INSPECTOR, LAND DEVELOPMENT INSPECTOR AND ZONING INSPECTOR. FAILURE TO SCHEDULE SUCH CONFERENCE 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITY IS SUBJECT TO A 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. WHEN APPROVED, INSPECTOR ISSUES THE GRADING PERMIT AND CLEARING AND GRUBBING MAY BEGIN.
  - THE CONTRACTOR SHALL DILIGENTLY AND CONTINUOUSLY MAINTAIN ALL EROSION CONTROL DEVICES AND STRUCTURES.
  - FOR PHASED EROSION CONTROL PLANS, CONTRACTOR SHALL MEET WITH EROSION CONTROL INSPECTOR PRIOR TO COMMENCING WITH EACH PHASE OF EROSION CONTROL MEASURES.
  - THE LAND DEVELOPMENT INSPECTOR SHOULD BE CALLED TO CONDUCT INSPECTIONS ON STORM DRAINAGE, SIDEWALKS, DRIVEWAY IMPROVEMENTS, AND ALL ASPECTS OF ROAD CONSTRUCTION.
  - 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, MECKLENBURG COUNTY EROSION CONTROL ORDINANCE, AND THE CHARLOTTE-MECKLENBURG LAND DEVELOPMENT STANDARDS.

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10-3-13

CHRISTIAN ACTIVITY CENTER  
IDLEWILD BAPTIST CHURCH  
12701 IDLEWILD ROAD  
MINT HILL, NC

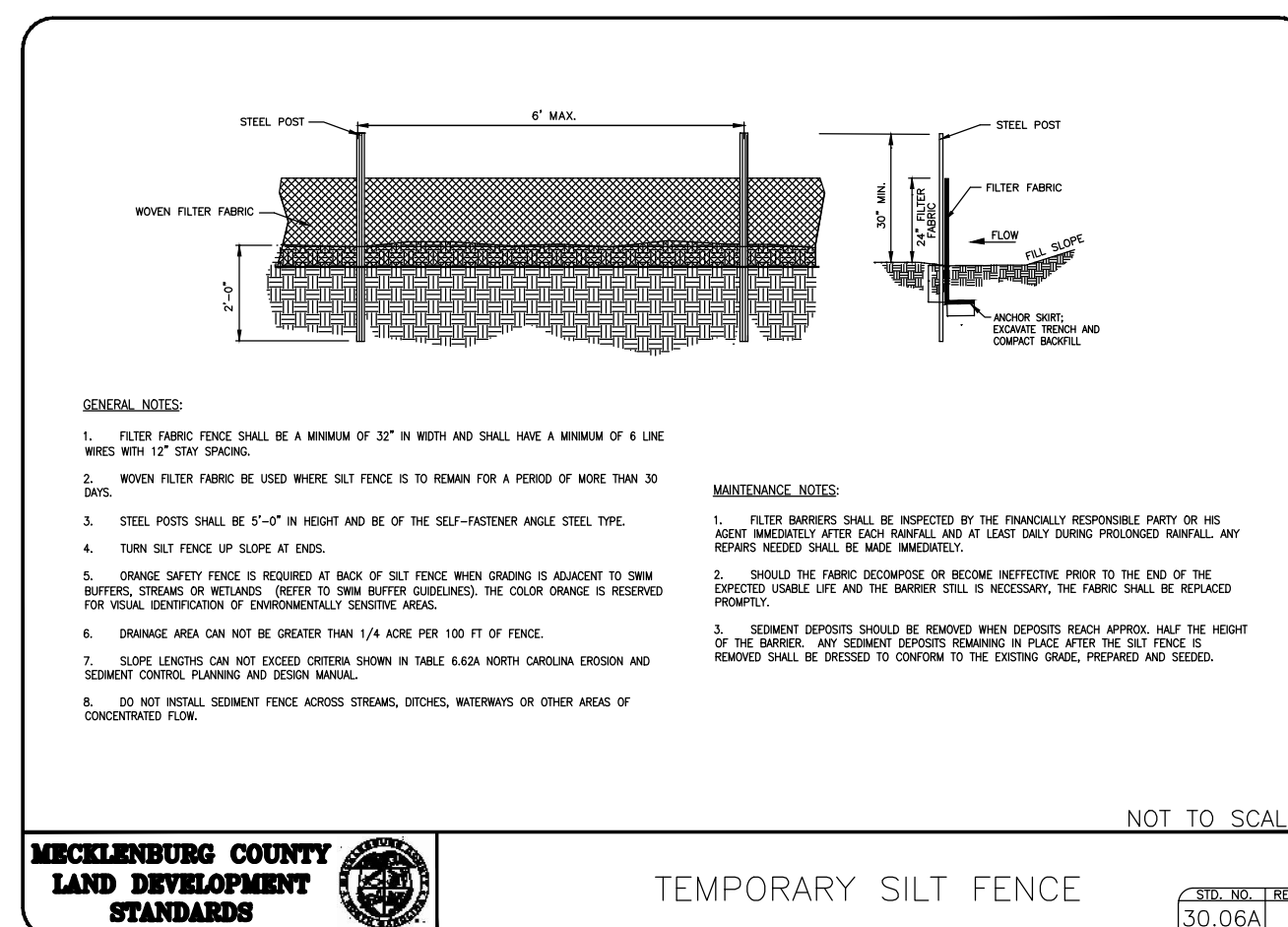
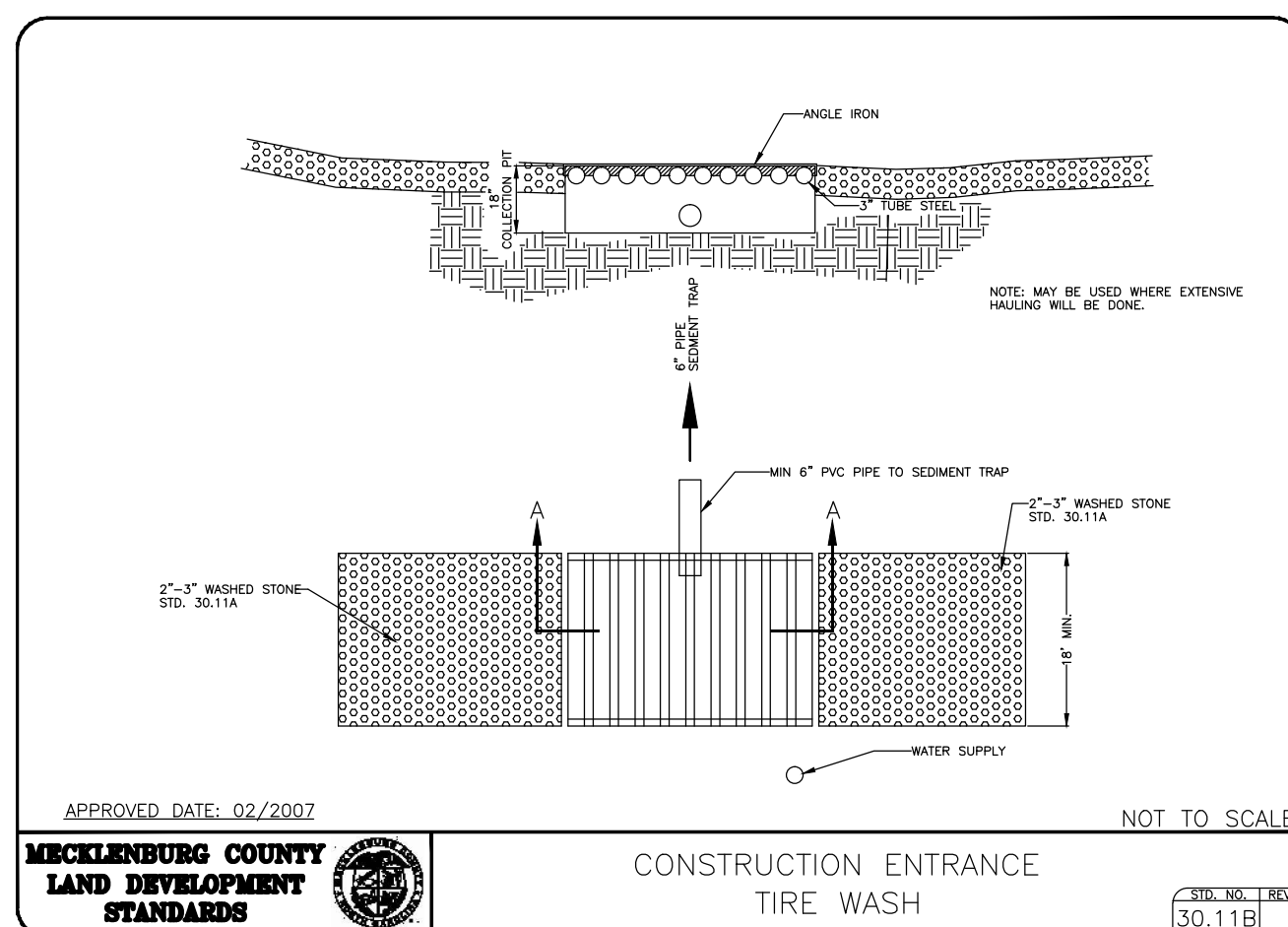
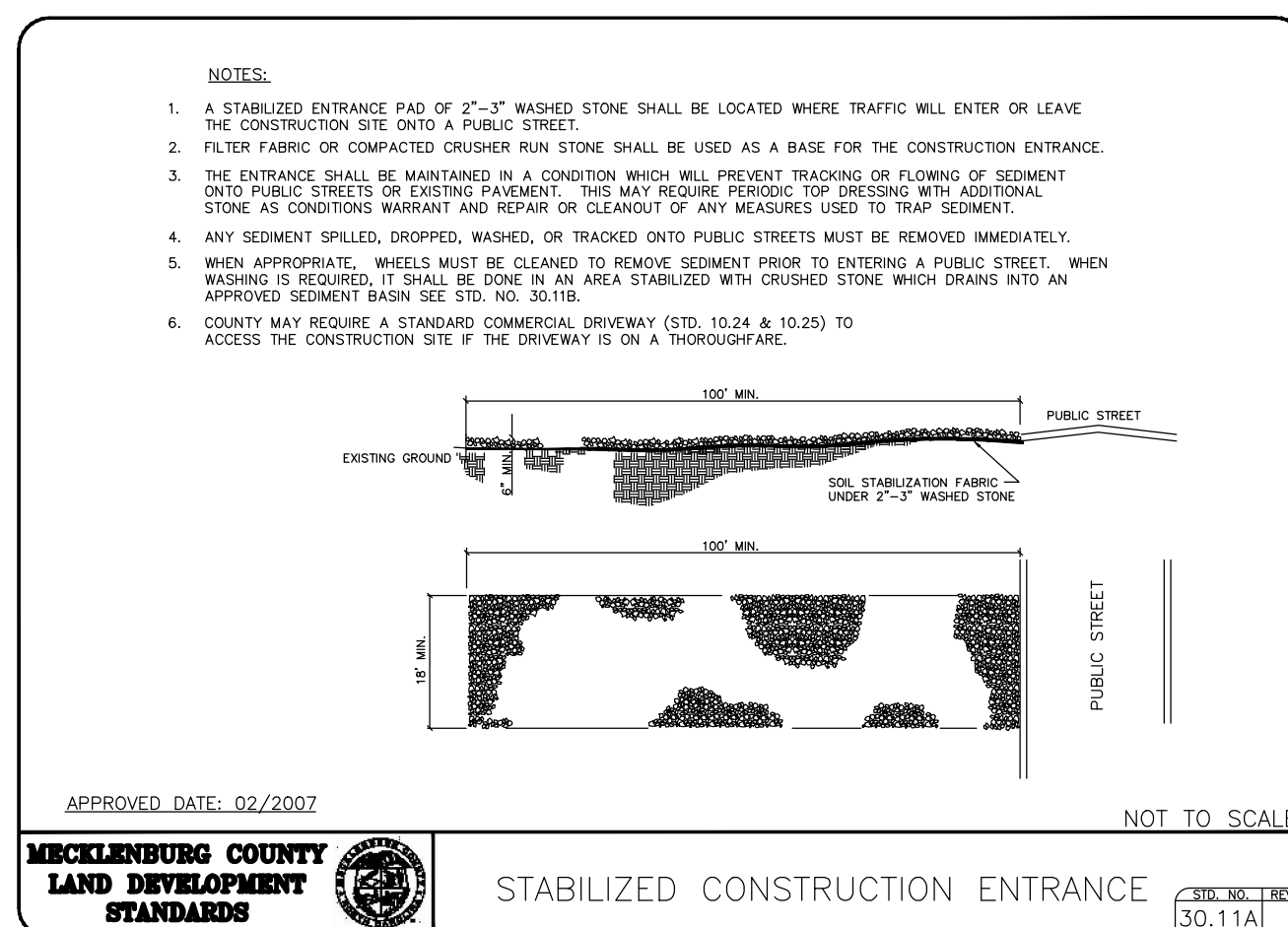
SURVEYED BY:  
S. M. SANDY SURVEYING  
1833 WESLEY CHAPEL ROAD  
INDIAN TRAIL, NC 28079  
PHONE. (704) 289 - 8040

1	10/3/13	REVIEW COMMENTS
MARK	DATE	DESCRIPTION
ISSUE: CONSTRUCTION		
PROJECT NO: S13064		
CAD DWG FILE: S13064-C-4.dwg		
DRAWN BY: TMB		
CHECKED BY: TMB		

SHEET TITLE  
ENLARGED SITE  
SEDIMENT &  
EROSION CONTROL  
PLAN  
C-4







GENTLE SLOPES		STEEP 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 Koba 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	FALL: August 25 - October 15 Late Winter: February 15 - April 15 To extend spring seeding into June, add 15 lbs./acre hulled Bermudagrass
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.


**NOTES:**

1. SOIL STABILIZATION SHOULD BE PERFORMED ON ANY AREA OF A SITE WHERE LAND-DESTRUCTIVE ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING CRITERIA:  
a. NO FERTILIZER DATES, BANDING DRIVES, FOWERED SITES AND/OR SLIPPER STRESSORS HAVE A HORIZONTAL DISTANCE OF 100 FEET OR MORE FROM THE ACTIVELY RESTORED AREA.  
b. SOIL IS NOT PRACTICABLE BUT IN ANY EVENT WITHIN 1 CALENDAR YEAR FROM THE LAST LAND-DESTRUCTIVE ACTIVITY.
2. ALL OTHER CRITERIA MUST BE MET TO PROVIDE TEMPORARY OR PERMANENT STABILIZATION WITH GRASSING AND/OR SOILS AS PRACTICABLE BUT IN ANY EVENT WITHIN 1 CALENDAR YEAR FROM THE LAST LAND-DESTRUCTIVE ACTIVITY.

APPROVED DATE: 02/20/2017

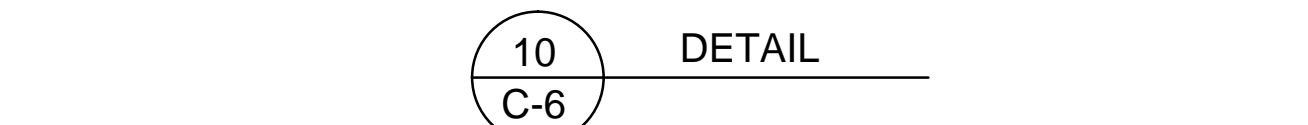
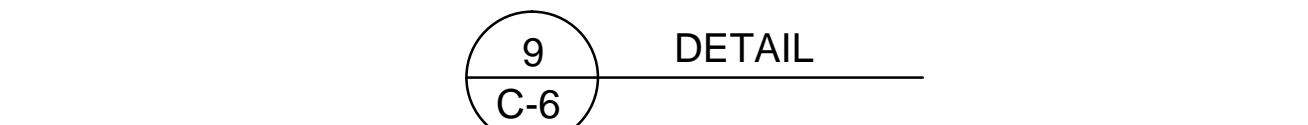
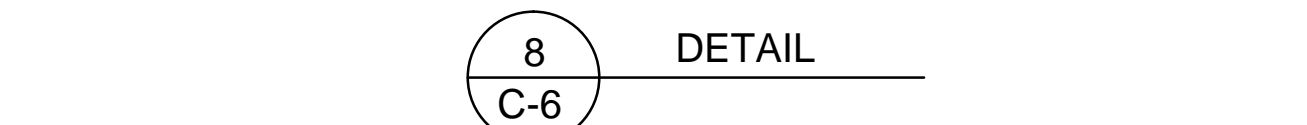
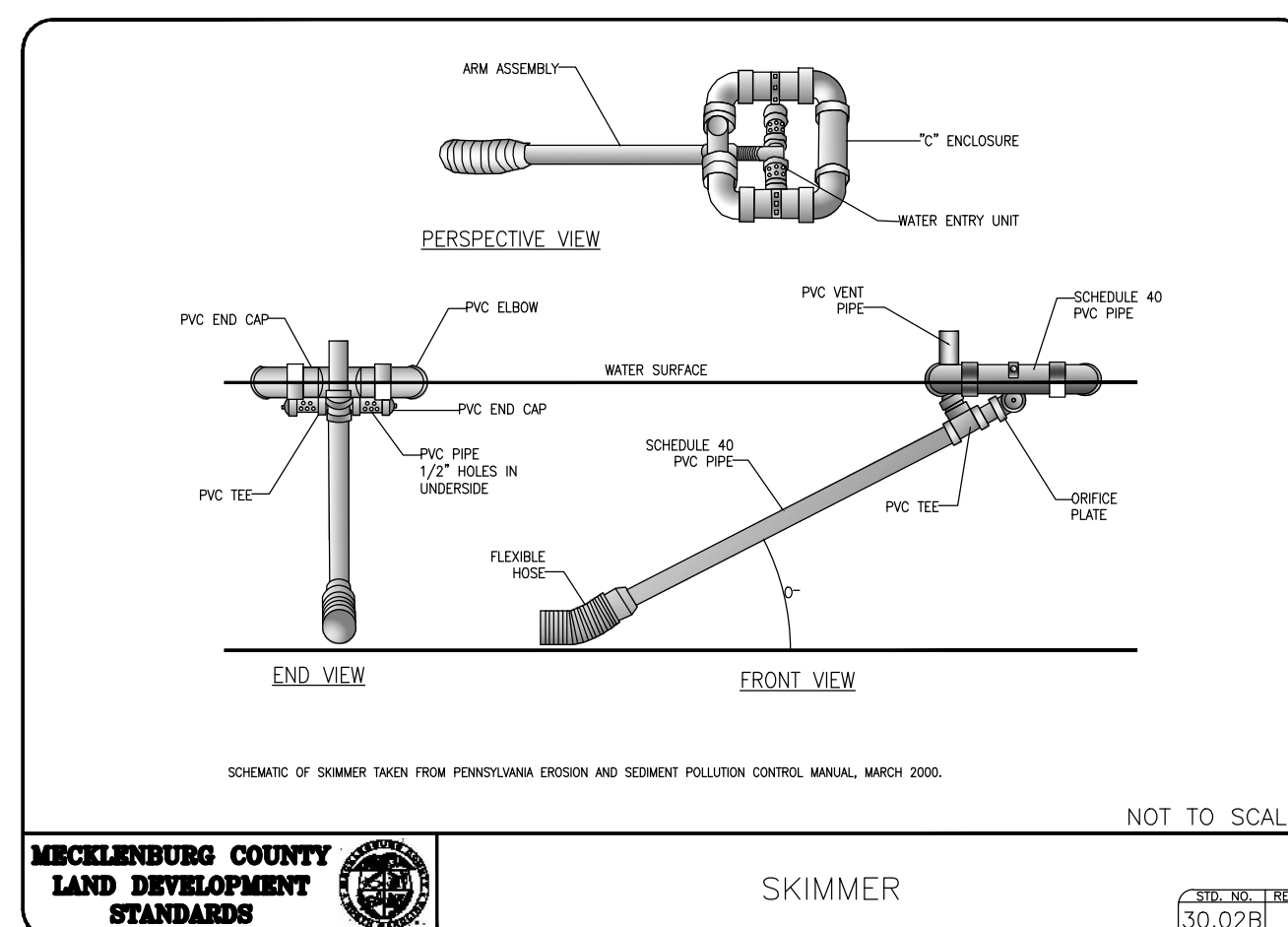
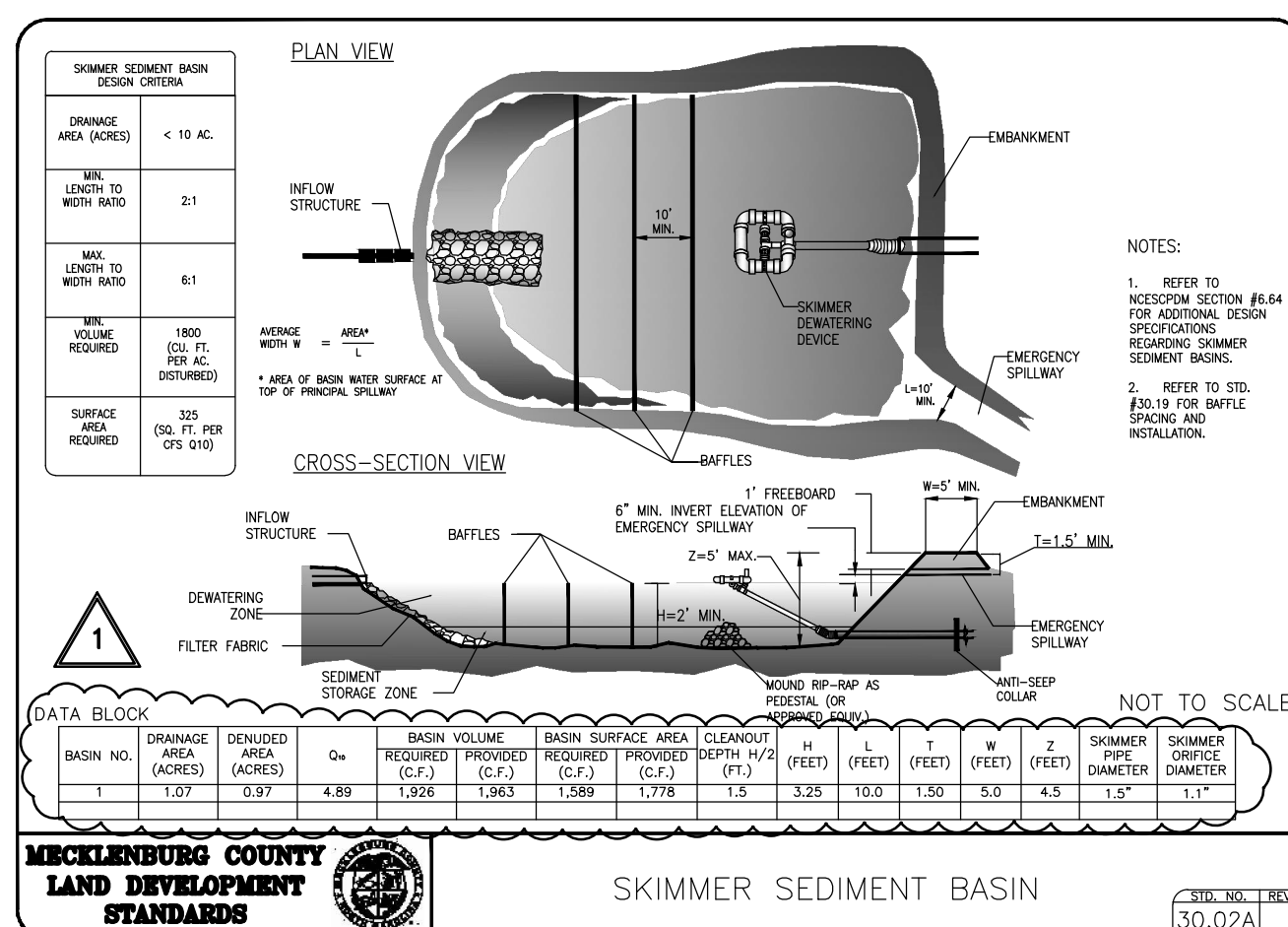
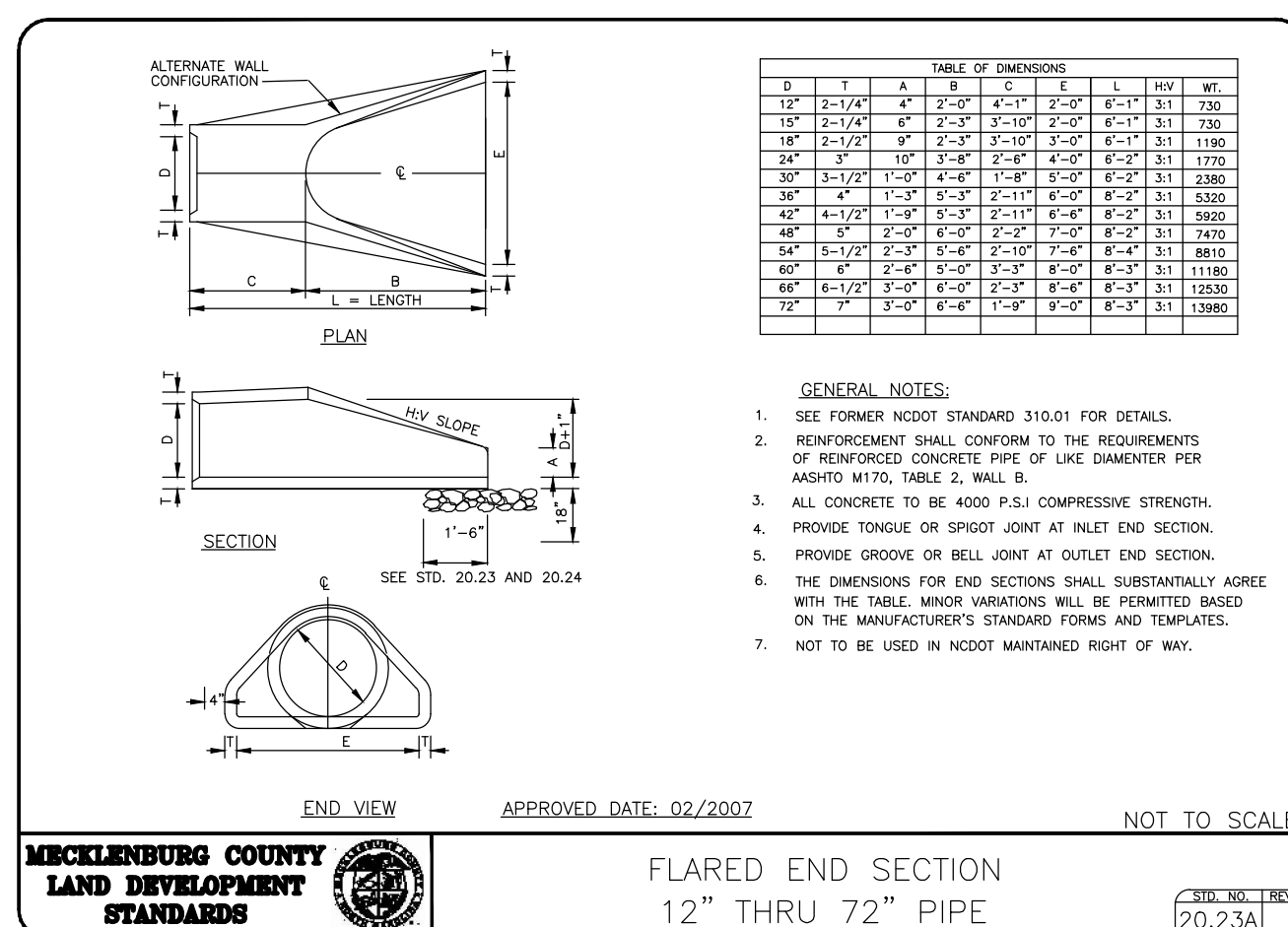
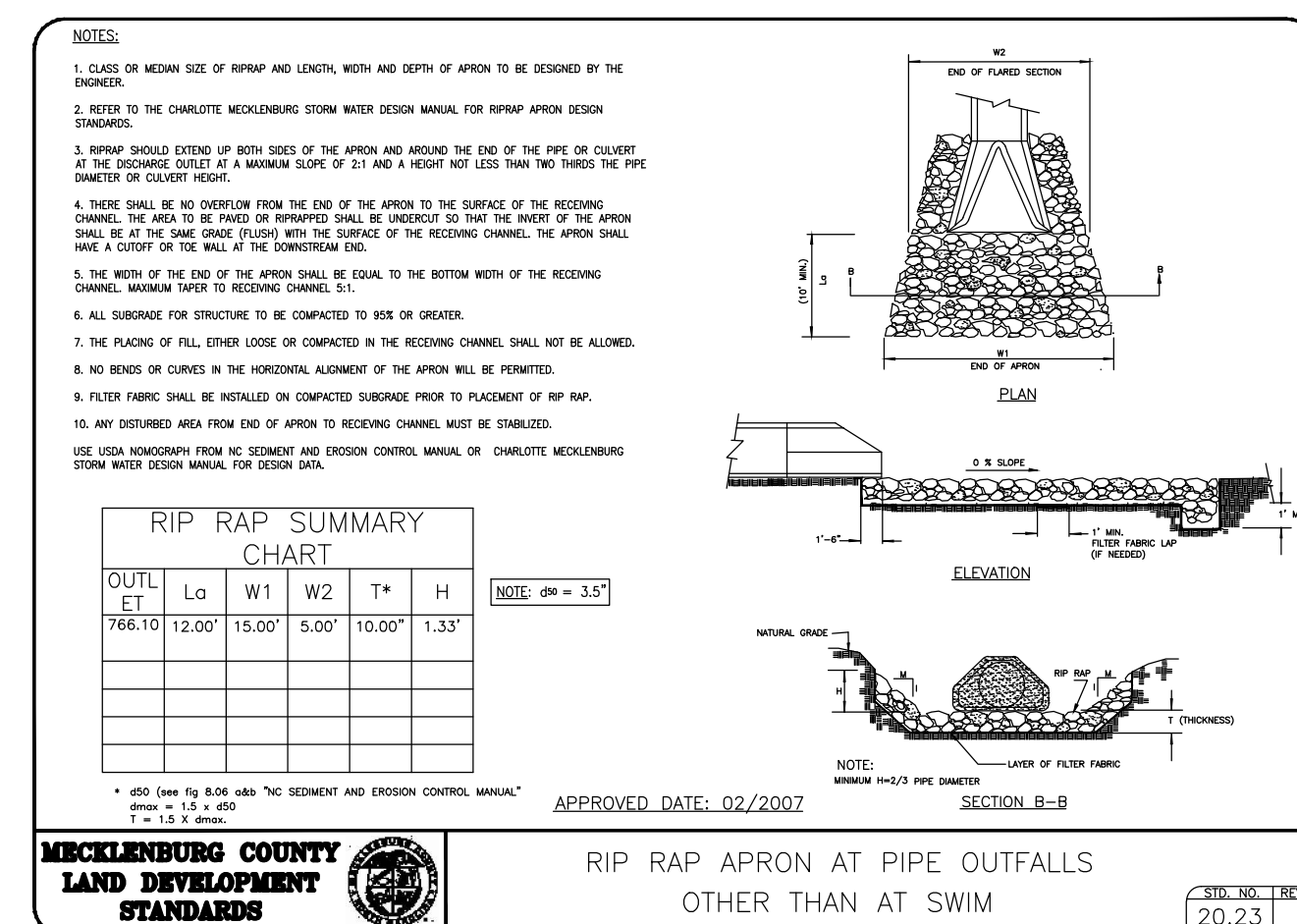
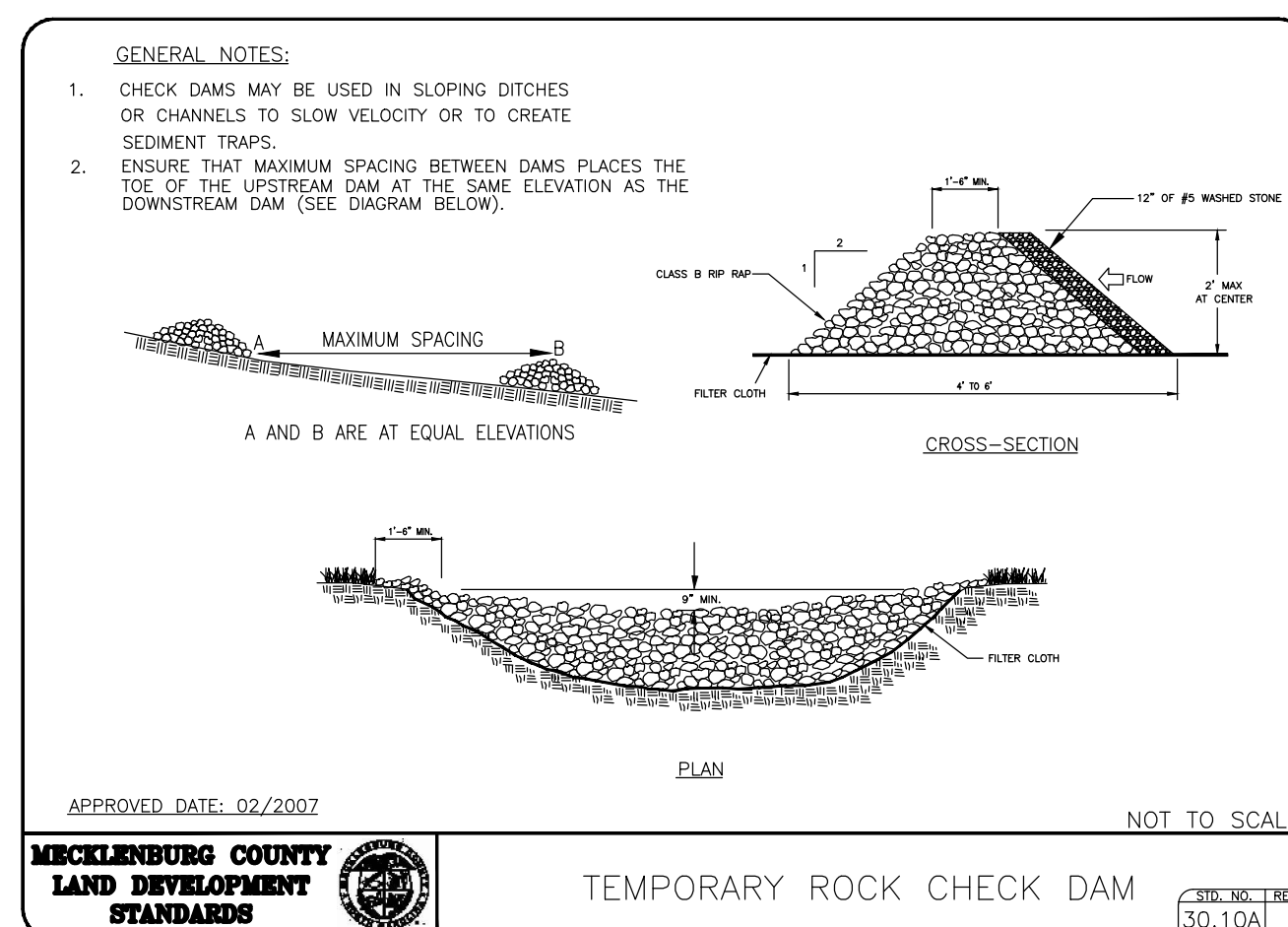
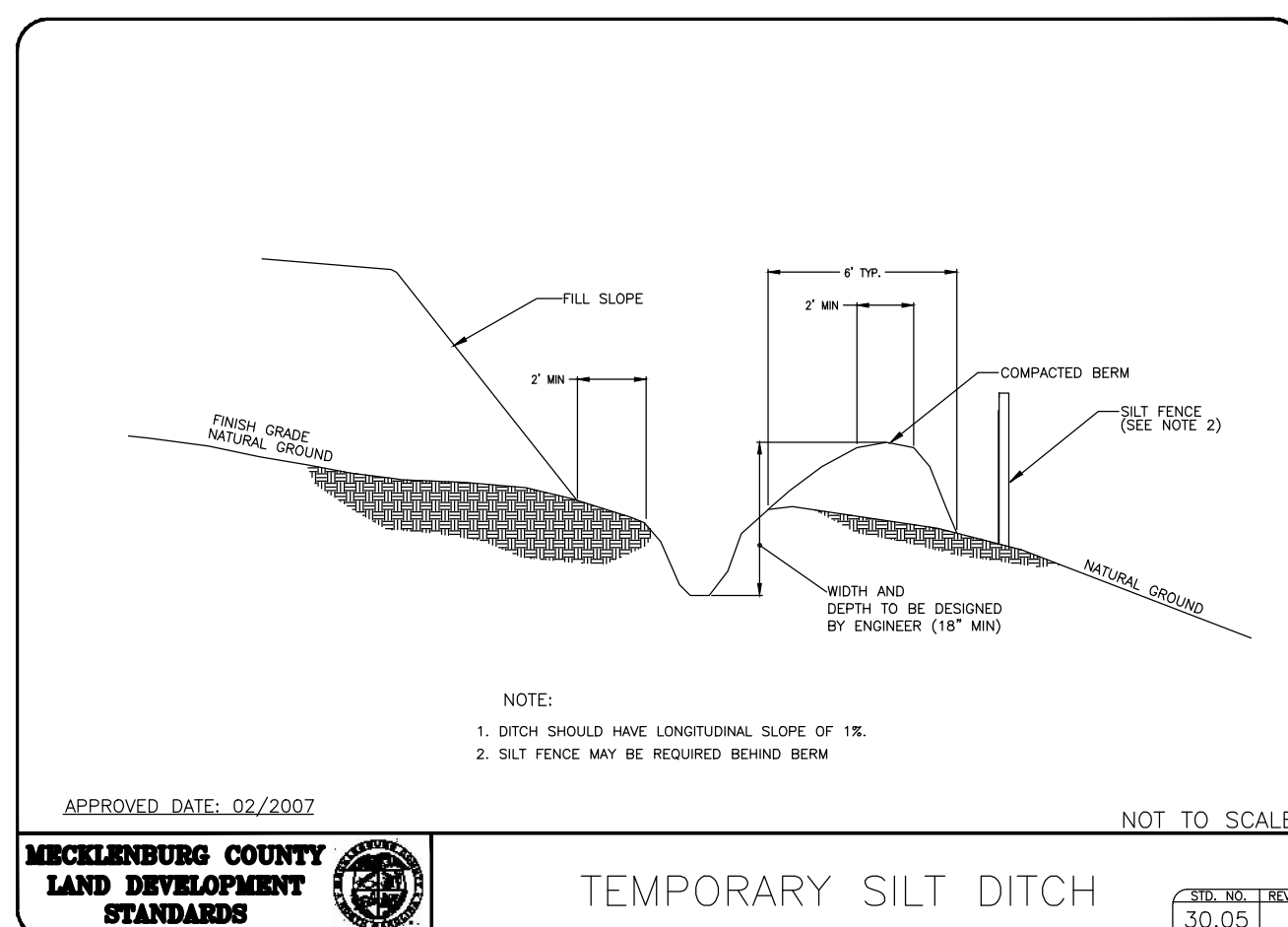
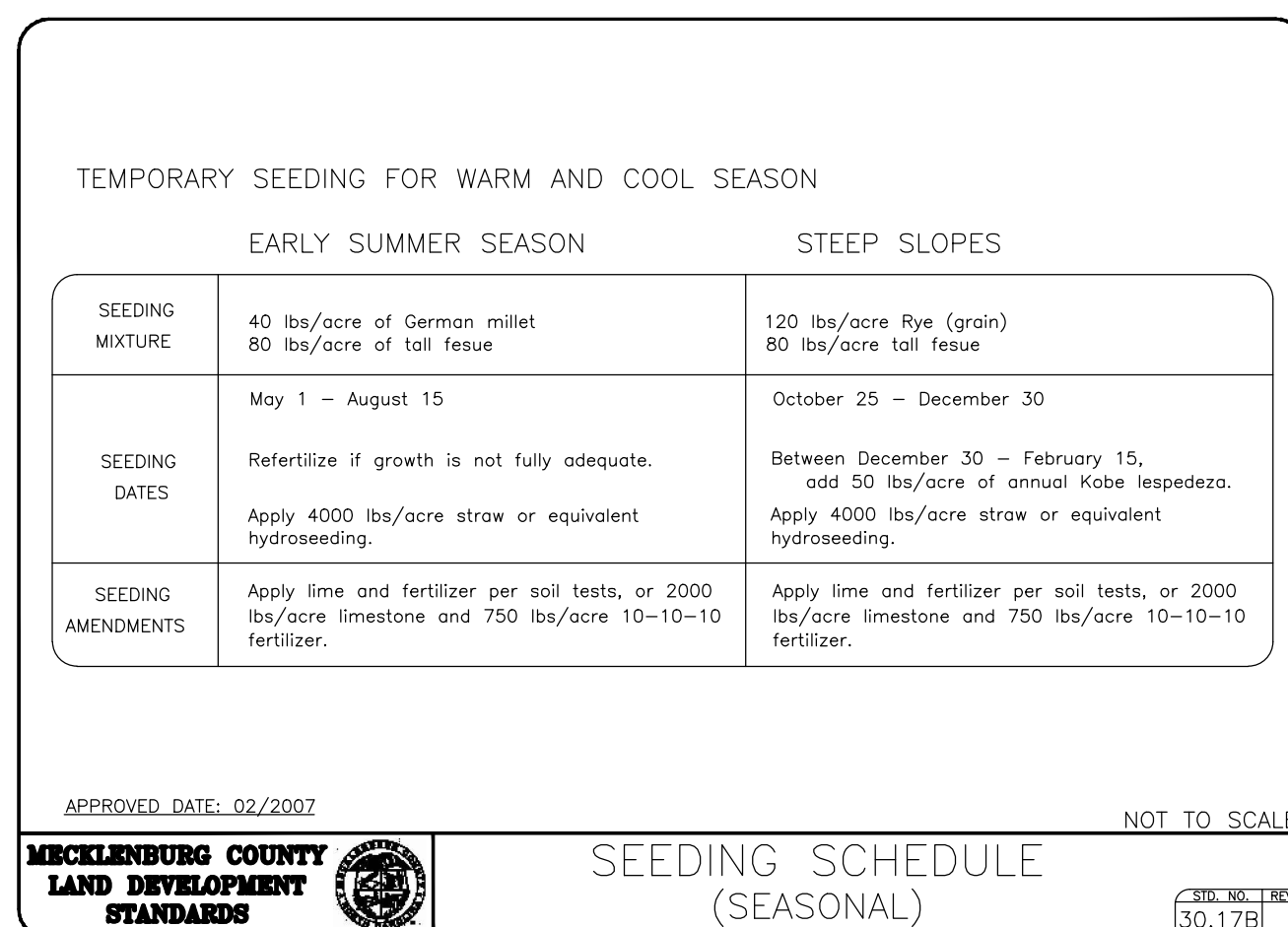
**MICHIGAN DEPT. OF  
LAND DEVELOPMENT**

**STANDARDS**



**SEEDING SCHEDULE**

300.17A



## UPDATED DETAILS



1

dh&a

ARCHITECTURE, PA

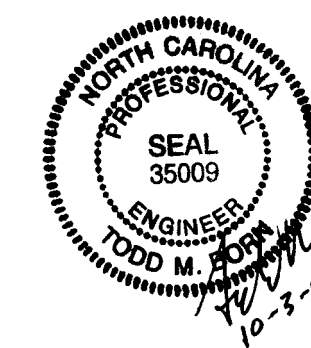
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CONSULTANTS

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S&S Project # : S1306



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SHEET TITLE

# EROSION CONTROL DETAILS SHEET 1 OF 1

# C-6