

VICINITY MAP
NTS

DRAWING INDEX:


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D2 - CONSTRUCTION DETAILS
D3 - CONSTRUCTION DETAILS

LEGEND

| | NEW | EXISTING |
|---------------------------------|-----|----------|
| DRAINAGE STRUCTURE | | |
| SANITARY SEWER MANHOLE | | |
| SANITARY SEWER CLEANOUT | | |
| WATER VALVE | | |
| FIRE HYDRANT | | |
| OVERHEAD UTILITY LINE | | |
| UNDERGROUND ELECTRIC LINE | | |
| UNDERGROUND TELECOM/DATA LINE | | |
| FIBER OPTIC CABLE | | |
| GAS LINE | | |
| STORM DRAINAGE PIPE | | |
| SANITARY SEWER LINE | | |
| WATER LINE | | |
| SURFACE ELEVATION CONTOUR | | |
| SURFACE SPOT ELEVATION | | |
| CLEARING LIMIT/TREE LINE | | |
| ELECTRICAL TRANSFORMER PAD | | |
| TREE PROTECTION FENCE | | |
| WIRE & GRAVEL INLET PROTECTION | | |
| BLOCK & GRAVEL INLET PROTECTION | | |
| STANDARD SILT FENCE | | |
| TEMPORARY DIVERSION DITCH (TDD) | | |
| SOIL LIMIT AND SOIL DESIGNATION | | |

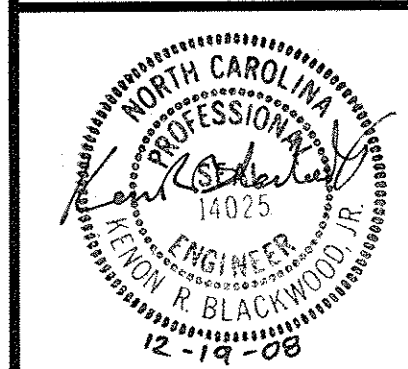
SITE DATA:

| | |
|---------------------------------------|---|
| OWNER: | REDD DOG, LLC 12171 US HWY 15-501 NORTH CHAPEL HILL, NC 27516 |
| APPLICANT: | COLE PARK VETERINARY HOSPITAL 11500 US HWY 15-501 NORTH CHAPEL HILL, NC 27517 (919) 929-3352 PHONE |
| PARCEL ID: | 2683 & 2684 |
| PIN: | 977601466305 & 977601466532 |
| PARCEL ACREAGE: | 1.83 ACRES |
| EXISTING ZONING: | RA-90 |
| PROPOSED ZONING: | COMMUNITY BUSINESS (CB) |
| BUILDING AREA: | 8,400 SF |
| IMPERVIOUS SURFACE ALLOWED: | 0.66 ACRES (36%) |
| EX. IMPERVIOUS SURFACE TO BE REMOVED: | 0.11 ACRES (6.0%) |
| NEW IMPERVIOUS SURFACE SHOWN: | 0.57 ACRES (31.1%) |
| NET NEW IMPERVIOUS SURFACE: | 0.46 ACRES (25.1%) |
| REQUIRED PARKING: | 21 SPACES (7 SP/PRACTIONER) |
| PARKING PROVIDED: | 28 SPACES |
| WATERSHED: | WS-IV (PA) |



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CHATHAM COUNTY, NORTH CAROLINA

COVER SHEET

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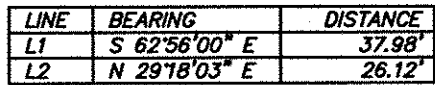
| | |
|-------------------|-----------------|
| DATE: | DECEMBER 12, 20 |
| HORIZONTAL SCALE: | N |
| VERTICAL SCALE: | N |
| PROJECT MANAGER: | MA |
| DRAWN BY: | M |
| PROJECT NO: | 150 |
| DRAWING NAME: | 15016-COVER.DWG |

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SHEET NO.

C1

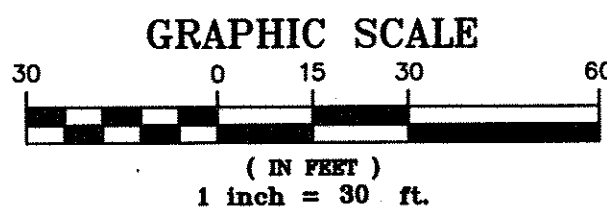


| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L1 | S 62°56'00" E | 37.98' |
| L2 | N 29°18'03" E | 26.12' |

DEMOLITION NOTES

- 1 REMOVE STRUCTURE, INCLUDING FOUNDATIONS, CONCRETE SLABS, UTILITY SERVICES, DECKING, AWNINGS, ETC. AND ALL CONTENTS. FOLLOW CHATHAM COUNTY REGULATIONS AND REQUIREMENTS FOR REMOVAL, TRANSPORT, RECYCLING AND DISPOSAL. OBTAIN ALL PERMITS AS NEEDED.
- 2 CONTRACTOR TO HAVE ASBESTOS-CONTAINING MATERIALS IN EXISTING STRUCTURES IDENTIFIED AND LEGALLY REMOVED. OBTAIN NECESSARY PERMITS AND REMOVE AND DISPOSE OF THESE MATERIALS IN ACCORDANCE WITH STATE AND COUNTY REGULATIONS.
- 3 FILL AND ABANDON EXISTING WELL PER REQUIREMENTS OF THE CHATHAM COUNTY HEALTH DEPARTMENT. PROVIDE WELL ABANDONMENT DOCUMENTATION TO THE HEALTH DEPARTMENT AS REQUIRED WITH COPY TO OWNER. LOCATION SHOWN IS APPROXIMATE.
- 4 FILL OUT AND REMOVE EXISTING SEPTIC TANK PER REQUIREMENTS OF THE CHATHAM COUNTY HEALTH DEPARTMENT. PROVIDE TANK REMOVAL DOCUMENTATION TO HEALTH DEPARTMENT AS REQUIRED, WITH COPY TO OWNER. LOCATION SHOWN IS APPROXIMATE.
- 5 REMOVE CONCRETE CURB CUT AND GRAVEL DRIVE.
- 6 REMOVE UTILITY POLE AND OVERHEAD UTILITY LINES. COORDINATE WITH UTILITY PROVIDER AS NEEDED.
- 7 ABANDON EXISTING SEPTIC FIELD PIPING IN PLACE..
- 8 REMOVE EXISTING FENCE.
- 9 GRIND AWAY SECTION OF YELLOW DOUBLE LINE FOR NEW ENTRANCE. SEE SHEET C3 FOR DRIVEWAY LOCATION.
- 10 EXISTING PROPERTY LINE TO BE REMOVED AND PARCELS RECOMBINED TO FORM ONE PARCEL.
- 11 REMOVE EXISTING MAIL BOXES.

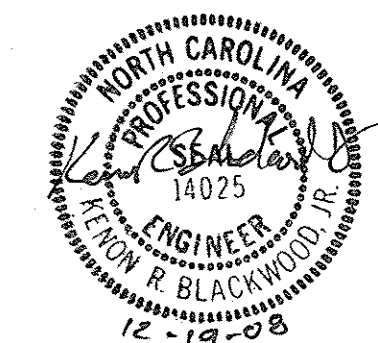
1. EXISTING CONDITIONS INFORMATION SHOWN TAKEN FROM FIELD SURVEY ENTITLED BOUNDARY AND TOPOGRAPHIC SURVEY PREPARED FOR COLE PARK VETERINARY HOSPITAL BY RILEY SURVEYING, P.A. DATED AUGUST 11, 2008.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF DEMOLITION AND/OR CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO REMAIN DURING ALL DEMOLITION AND CONSTRUCTION ACTIVITIES.
4. ALL CLEARING, GRUBBING AND UNSUITABLE FILL MATERIAL SHALL BE HAULED OFFSITE AND DISPOSED OF LEGALLY.
5. ALL PAVEMENT, CURB, UTILITY PIPE, AND STRUCTURES TO BE REMOVED SHALL BE HAULED OFFSITE AND DISPOSED OF LEGALLY.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK W/IN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE N.C. SUPPLEMENT TO THE MUTCD, AND LOCAL CITY INSPECTORS DIRECTION.
7. INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS IS BASED ON INFORMATION READILY AVAILABLE TO THE ENGINEER. THE ENGINEER HAS NOT CONDUCTED AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THEREFORE MAKES NO WARRANTY TO THE CONTRACTOR OR ANY OTHER PARTY REGARDING THEM. THE CONTRACTOR IS ADVISED THAT THIS INFORMATION MAY NOT BE COMPLETE, AND THAT EXISTING UNDERGROUND FACILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED ON THE DRAWINGS. THE CONTRACTOR IS ALSO ADVISED THAT IF DIFFERING CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND THEY MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.



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CHATHAM COUNTY, NORTH CAROLINA

**EXISTING CONDITIONS
& DEMOLITION PLAN**

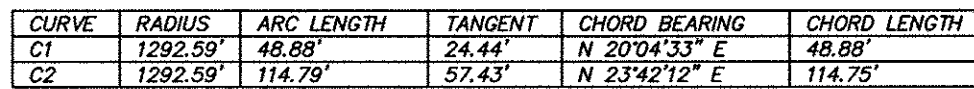
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|--|------|-------------|
| DATE: _____ DECEMBER 12, 2008 HORIZONTAL SCALE: _____ 1"=30' VERTICAL SCALE: _____ N.A. PROJECT MANAGER: _____ MAF DRAWN BY: _____ RAM PROJECT NO: _____ 15016 DRAWING NAME: _____ 15016.DWG | | |

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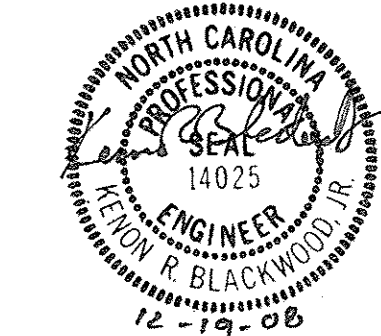
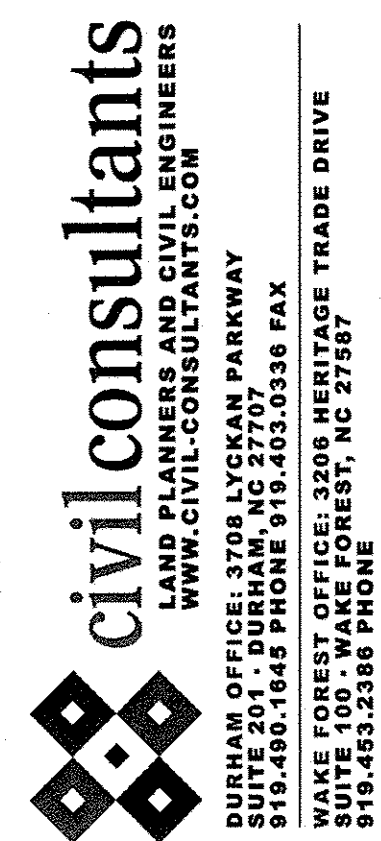
SHEET NO.

C2



GENERAL SITE NOTES:

1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE SPECIFIED.
2. ALL RADII ARE 5.0' UNLESS OTHERWISE SPECIFIED.
3. ALL NEW STD. PARKING SPACES SHALL BE 9' x 19' UNLESS OTHERWISE SPECIFIED.
4. ALL HANDICAP ACCESSIBLE PARKING SPACES SHALL HAVE AN R7-8 AND R7-84 SIGN. ALL SIGNS FOR VAN ACCESSIBLE SPACES SHALL INCLUDE A "VAN ACCESSIBLE" ATTACHED SIGN.
5. CONTRACTOR SHALL TAKE CARE TO MAKE SMOOTH, FLOWING TRANSITION @ NEW AND EX. ASPHALT TIES.
6. ALL NEW PAVEMENT SHALL BE STANDARD PAVED UNLESS OTHERWISE SPECIFIED.
7. ALL NEW CURB & GUTTER ON SITE SHALL BE 24" CURB & GUTTER UNLESS OTHERWISE SPECIFIED.
8. ALL NEW CURB & GUTTER W/IN STREET R/W SHALL BE 30" CURB & GUTTER UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL MEASURES FOR ALL WORK W/IN PUBLIC R/W PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE N.C. SUPPLEMENT TO THE MUTCD, AND LOCAL NODOT INSPECTORS DIRECTION.
10. ALL STRIPING AND PAVEMENT MARKINGS SHALL BE MADE WITH PAINT CONFORMING TO NODOT "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", 1995 ed., AND SHALL HAVE A MINIMUM DRY FILM THICKNESS OF 10 MILS. ALL STRIPING SHALL BE WHITE UNLESS OTHERWISE SPECIFIED. ALL PARKING SPACE STRIPING SHALL BE A MINIMUM 4' WIDE STRIPES.
11. BUILDING INFORMATION SHOWN HEREON IS TAKEN FROM DESIGN PROVIDED BY THE ARCHITECT. BUILDING LINES SHOWN GENERALLY REPRESENT THE EXTERIOR FACE OF THE BUILDING. CONTRACTOR SHALL REFER TO THE ARCHITECT'S PLANS FOR ACTUAL BUILDING DIMENSIONS, WINDOW AND DOOR LOCATIONS, COLUMN AND FOOTING LOCATIONS, WALL THICKNESSES, OVERHANGS, AND ROOF LINES. CONTRACTOR SHALL REFER TO THE PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ALL UTILITY TIE IN LOCATIONS AND CONFIRM THAT THE LOCATIONS MATCH THOSE LOCATIONS SHOWN ON THE CIVIL PLANS.



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SITE AND PAVING
PLAN

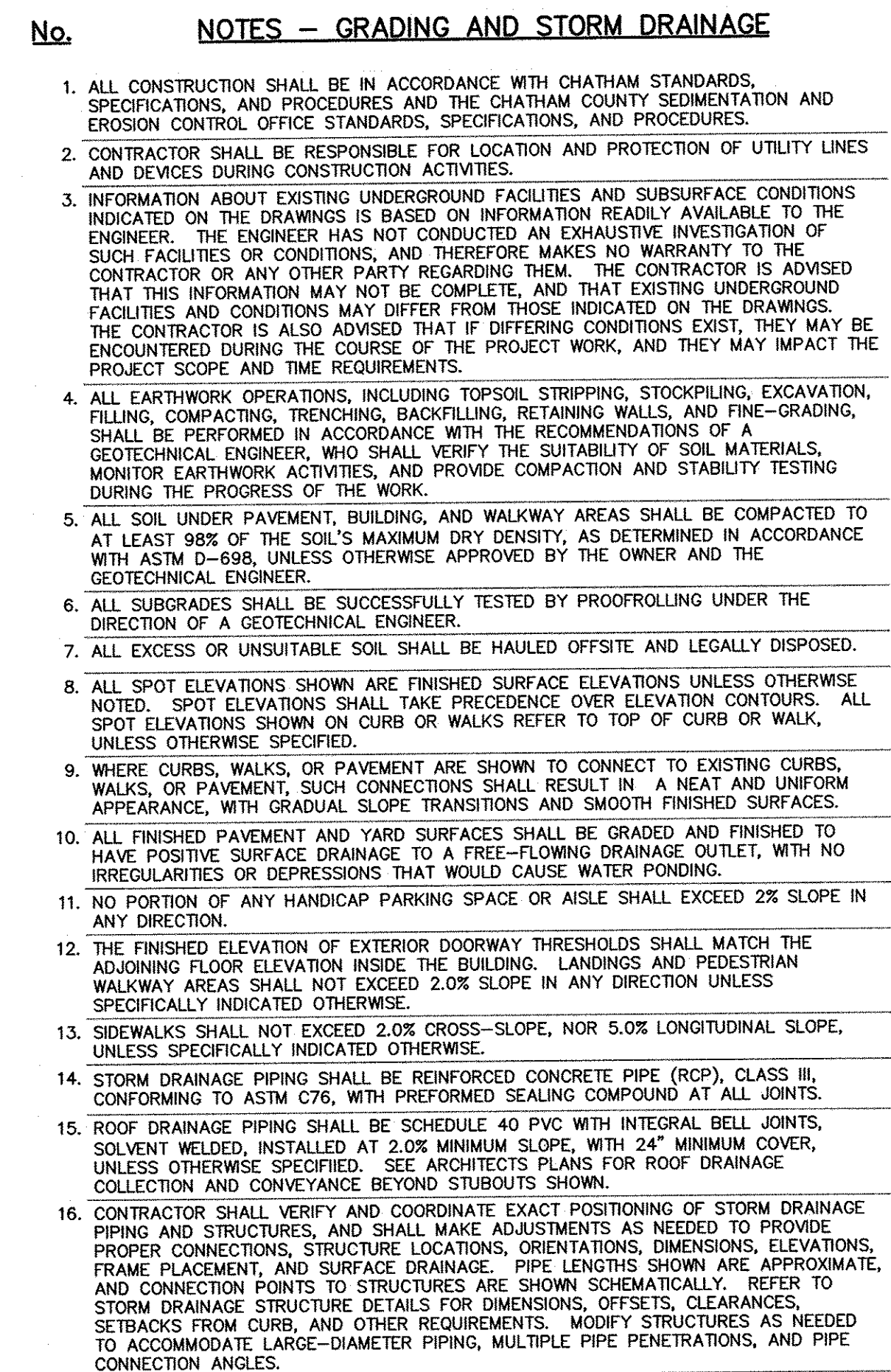
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| | VERTICAL SCALE: | N |
| | PROJECT MANAGER: | M |
| | DRAWN BY: | R |
| | PROJECT NO: | 15016.DW |
| | DRAWING NAME: | 15016.DWG |

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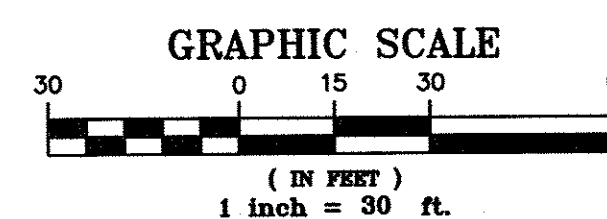
C3



| KEY | NOTES |
|-----|--|
| 1 | RIP RAP APRONS AT ROOF DRAIN OUTLET SHALL BE CLASS A EROSION CONTROL STONE, 4" LONG, 5" WIDE WITH A DEPTH OF 6". |
| 2 | RIP RAP APRON AT FLUME OUTLET SHALL BE CLASS B EROSION CONTROL STONE, 13" LONG, 14" WIDE WITH A DEPTH OF 18". |

| STORM DRAINAGE STRUCTURE SCHEDULE | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|------------------|-----------------|----------------|-----------------|----------------|------------|-----------|-----------------|------------|-----------------|---------------|-------------|-----------|--------|-------|
| STRUCTURE DATA | | | | | | | | PIPE DATA | | | | | APRON DATA | | | |
| Structure Number | Structure Type | Rvn/OC Elevation | Invert In North | Invert In East | Invert In South | Invert In West | Invert Out | To | Pipe Length Out | Pipe Slope | Design Diameter | Pipe Material | Stone Class | Thickness | Length | Width |
| # | | elev | elev | elev | elev | elev | elev | | ft | % | in | | in | in | ft | ft |
| A01 | FES | - | - | - | - | - | 567.60 | - | - | - | - | RCP | B | 18 | 9 | 11 |
| A02 | NCDOT STD 840.05 | 572.00 | - | - | - | 568.20 | 568.00 | A01 | 40.0 | 1.00% | 18 | RCP | B | - | - | - |
| A03 | NCDOT STD 840.15 | 573.00 | - | - | - | - | 569.00 | A02 | 77.0 | 1.04% | 18 | RCP | B | - | - | - |
| B01 | FES | - | - | - | - | - | 570.00 | - | - | - | - | RCP | B | 18 | 8 | 9 |
| B02 | NCDOT STD 840.15 | 573.00 | - | - | - | - | 570.80 | B01 | 180.0 | 2.00% | 15 | RCP | - | - | - | - |
| C01 | OPEN PIPE END | - | - | - | - | - | 580.00 | - | - | - | - | RCP | B | 18 | 8 | 9 |
| C07 | OPEN PIPE END | - | - | - | - | 581.00 | - | C01 | 64.0 | 1.56% | 15 | RCP | - | - | - | - |

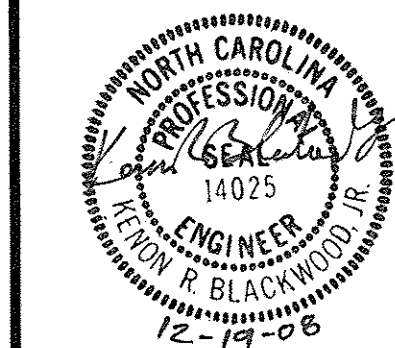
FOR CURB INLETS, ELEVATION SHOWN AS RM/TOC IS FOR TOP BACK OF CURB.
FOR CATCH BASINS, ELEVATION SHOWN AS RM/TOC IS FOR TOP OF GRATE.
FOR JUNCTION BOXES, ELEVATION SHOWN AS RM/TOC IS FOR TOP OF LID.
FOR YARD INLETS, ELEVATION SHOWN AS RM/TOC IS FOR FLOW LINE.
PIPE LENGTHS SHOWN ARE APPROXIMATE. LENGTHS ARE MEASURED FROM THE CENTER OF DRAINAGE STRUCTURES; AND, WHERE APPLICABLE, INCLUDE THE TOTAL LENGTH OF THE FLARED END SECTION.



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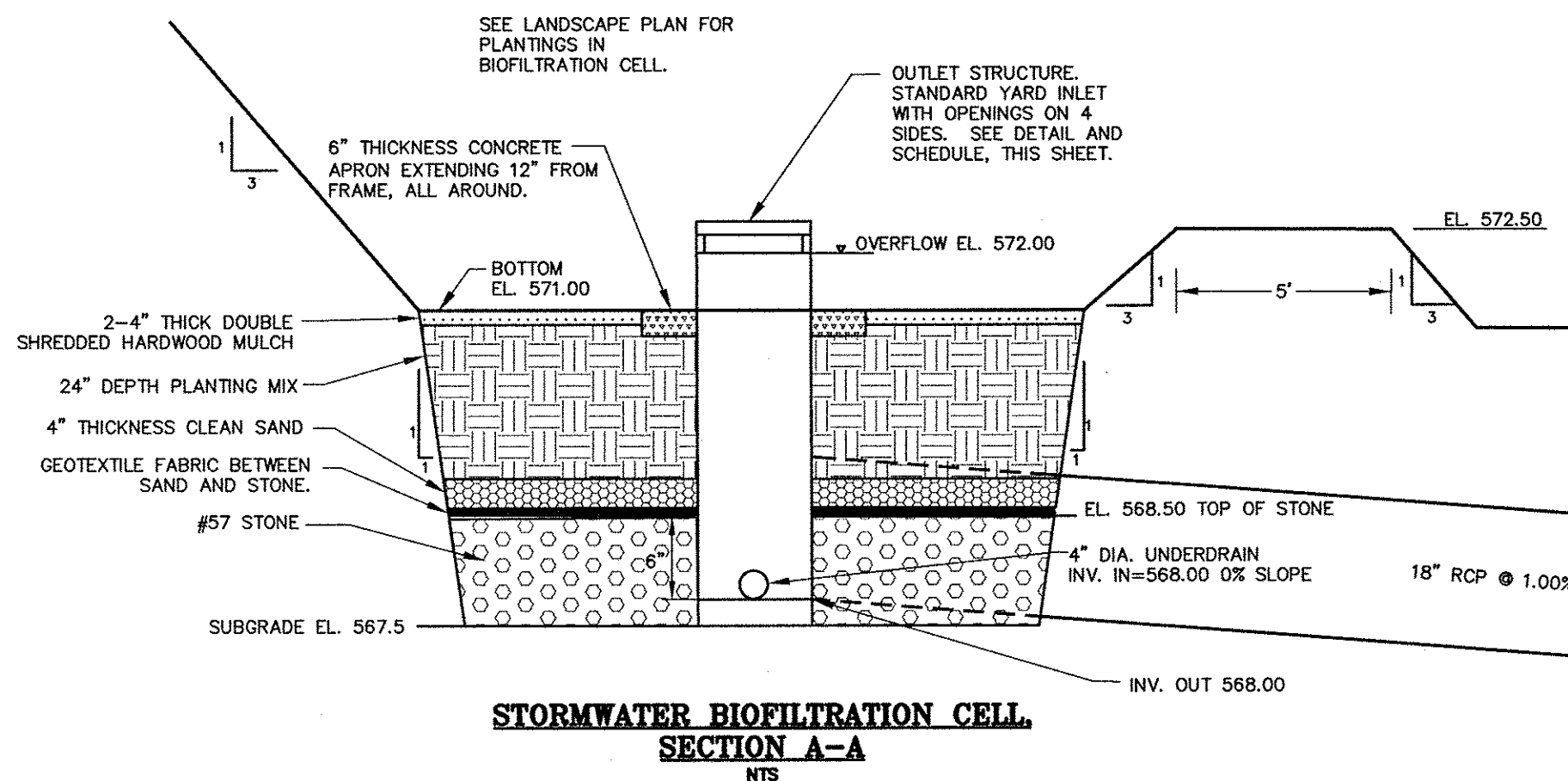
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CHATHAM COUNTY, NORTH CAROLINA
GRADING & STORM DRAINAGE
PLAN

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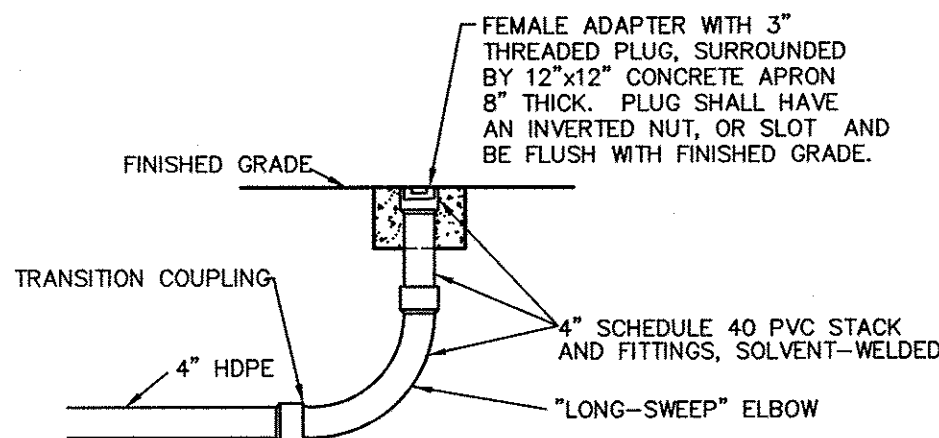
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SHEET NO.
C4

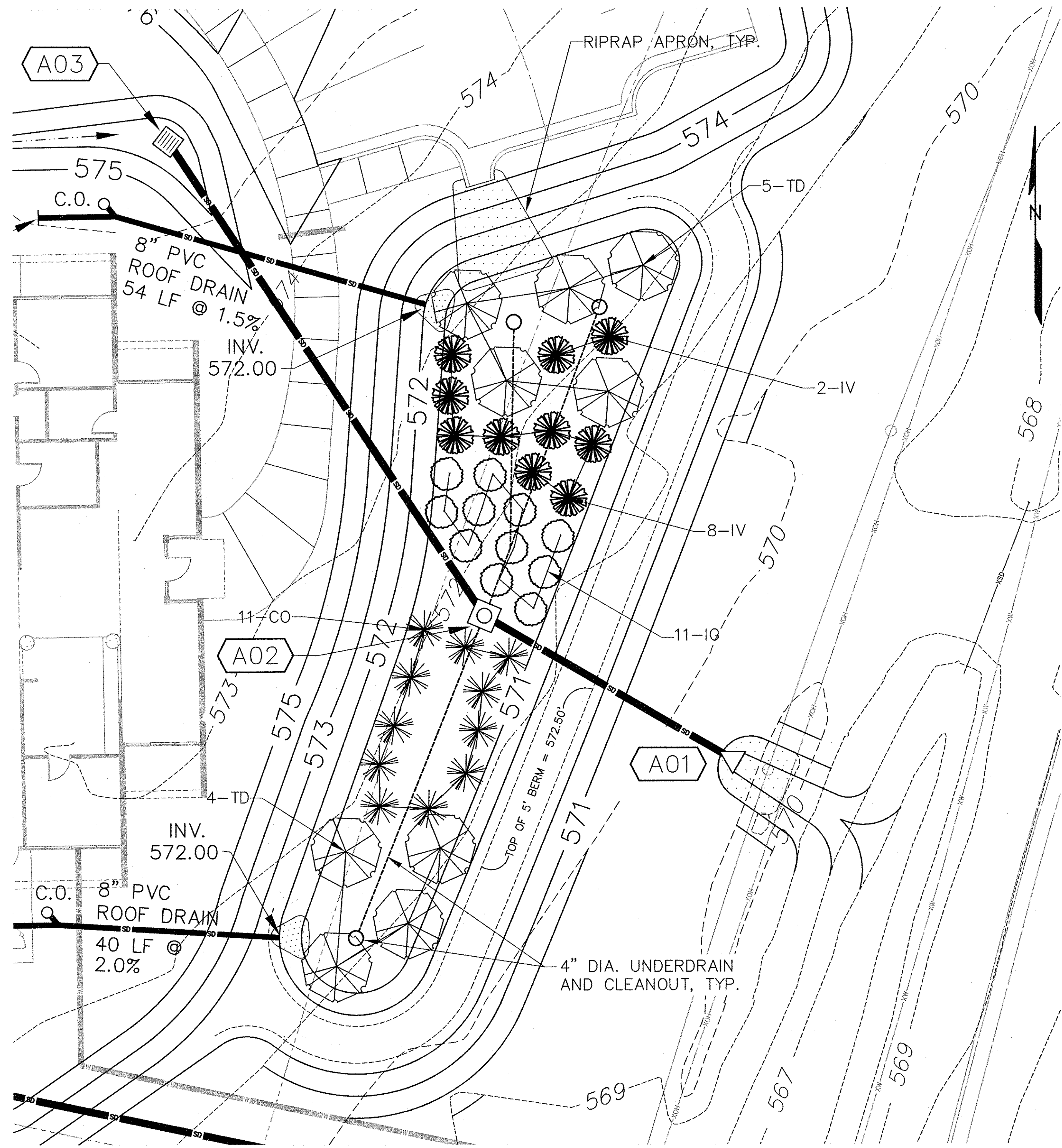


BIOFILTRATION CELL SPECIFICATIONS

- GRADING** - CLEARING, STRIPPING, EXCAVATION, FILLING, TRENCHING, BACKFILLING, COMPACTION, AND FINE-GRADING WORK SHALL BE IN ACCORDANCE WITH APPLICABLE SECTIONS OF PROJECT SPECIFICATIONS.
- PLANTING MIX FOR BIOFILTER** - UNIFORM SOIL MIXTURE FREE OF STUMPS, STONES, OR LARGE ROOTS, CONTAINING THE FOLLOWING TYPES AND RATIOS (BY WEIGHT) OF COMPONENTS:
85% SAND (USDA SOIL TEXTURAL CLASSIFICATION)
10% FINE SOIL MATERIAL (SILT OR CLAY)
5% PEAT MOSS
- SAND** - CLEAN AASHTO M-6 OR ASTM C-33 CONCRETE SAND, 0.02" TO 0.04".
- UNDERDRAIN GRAVEL** - CLEAN, HARD, ANGULAR GRAVEL CONFORMING TO NCDOT DESIGNATION # 57.
- GEOFILTER FABRIC** - NON-WOVEN, NEEDLE-PUNCHED GEOTEXTILE WITH 135 LBS. PUNCTURE STRENGTH (ASTM D-4833); 220 LBS. TENSILE STRENGTH (ASTM D-4632); AND APPARENT OPENING SIZE OF U.S. STD. #60 SIEVE (ASTM D-4751).
- UNDERDRAIN PIPING** - NOMINAL 4" DIAMETER CORRUGATED HIGH-DENSITY POLYETHYLENE SINGLE-WALL PIPE AND FITTINGS CONFORMING TO AASHTO-M 252, WITH 3/8" DIAMETER PERFORATIONS SPACED EQUALLY AROUND THE FULL PIPE PERIMETER. CLEANOUT PIPE AND FITTINGS SHALL BE SOLVENT-WELDED SCHEDULE 40 PVC PER THE DETAIL SHOWN.

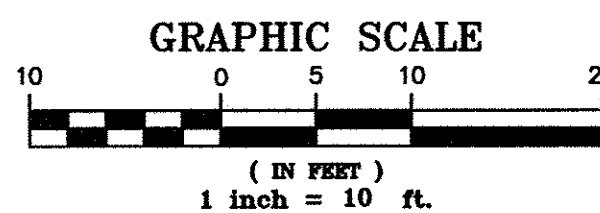


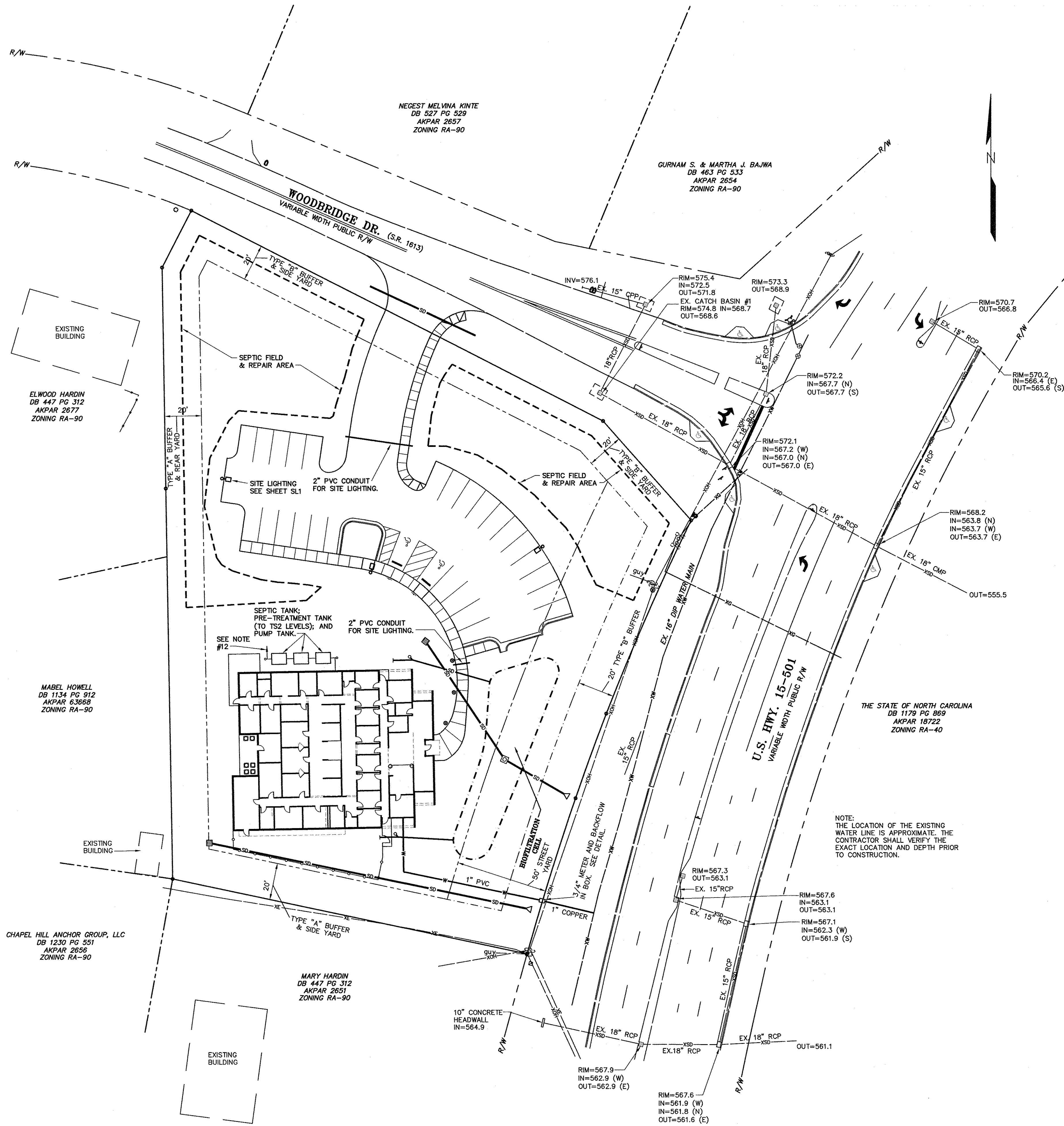
CLEANOUT DETAIL AT UNDERDRAIN



PLANT LIST

| KEY | COMMON NAME | BOTANICAL NAME | CAL | HGT | ROOT | REMARKS | QTY |
|------------------|---------------------|---------------------------------|-----|------|-------|---------|-----|
| CANOPY TREES | | | | | | | |
| TD | BALD CYPRESS | TAXODIUM DISTICHUM | 2.0 | - | B&B | MATCHED | 9 |
| EVERGREEN SHRUBS | | | | | | | |
| CO | BUTTON BUSH | CEPHALANTHUS OCCIDENTALIS | - | 5gal | CONT. | | 11 |
| IG | INKBERRY HOLLY | ILEX GLABRA | - | 3gal | CONT. | | 11 |
| IV | VIRGINIA SWEETSPIRE | ITEA VIRGINICA 'HENRY'S GARNET' | - | 3gal | CONT. | | 10 |

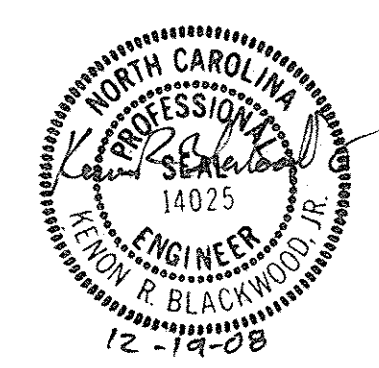




UTILITY NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO REMAIN DURING ALL CONSTRUCTION ACTIVITIES.
3. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF CHATHAM COUNTY CONSTRUCTION STANDARDS, SPECIFICATIONS, AND PROCEDURES.
4. ALL WATER MAINS SHALL MAINTAIN A MIN. COVER OF 36".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH UTILITY SERVICE PROVIDERS AND ARCHITECT TO PROVIDE BUILDING UTILITY SERVICE DEMANDS AT LOCATIONS AS REQUIRED.
6. PLUMBER SHALL BE RESPONSIBLE FOR MAKING ALL WATER AND SEWER CONNECTIONS TO LINES STUBBED TO WITHIN 5' OF THE BUILDING BY THE UTILITY CONTRACTOR.
7. INFORMATION ABOUT EXISTING UNDERGROUND FACILITIES AND SUBSURFACE CONDITIONS INDICATED ON THE DRAWINGS IS BASED ON INFORMATION READILY AVAILABLE TO THE ENGINEER. THE ENGINEER HAS NOT CONDUCTED AN EXHAUSTIVE INVESTIGATION OF SUCH FACILITIES OR CONDITIONS, AND THEREFORE MAKES NO WARRANTY TO THE CONTRACTOR OR ANY OTHER PARTY REGARDING THEM. THE CONTRACTOR IS ADVISED THAT THIS INFORMATION MAY NOT BE COMPLETE, AND THAT EXISTING UNDERGROUND FACILITIES AND CONDITIONS MAY DIFFER FROM THOSE INDICATED ON THE DRAWINGS. THE CONTRACTOR IS ALSO ADVISED THAT IF DIFFERING CONDITIONS EXIST, THEY MAY BE ENCOUNTERED DURING THE COURSE OF THE PROJECT WORK, AND THEY MAY IMPACT THE PROJECT SCOPE AND TIME REQUIREMENTS.
8. CONTACT THE ENGINEER 24 HOURS PRIOR TO BEGINNING WATER MAIN TAPS. THE ENGINEER MUST OBSERVE THE TAP AND BE PRESENT TO OBSERVE PIPE LAYING AND BACKFILLING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING SUCCESSFUL TESTING UPON COMPLETION OF THE WATER MAIN AND PRIOR TO OPERATION.
9. THE DISTRIBUTION BOX LOCATION, PRIMARY FIELD AND NITRIFICATION LINE SHALL BE FIELD LOCATED WITH THE CHATHAM COUNTY HEALTH DEPARTMENT. CONSTRUCTION SHALL BE INITIATED ONLY UPON ISSUANCE OF AN AUTHORIZATION TO CONSTRUCT BY THE CHATHAM COUNTY HEALTH DEPARTMENT.

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COLE PARK VETERINARY HOSPITAL
 CHATHAM COUNTY, NORTH CAROLINA
UTILITY PLAN

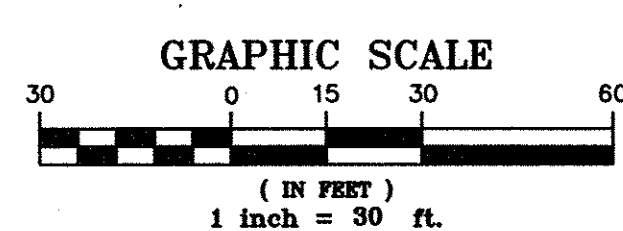
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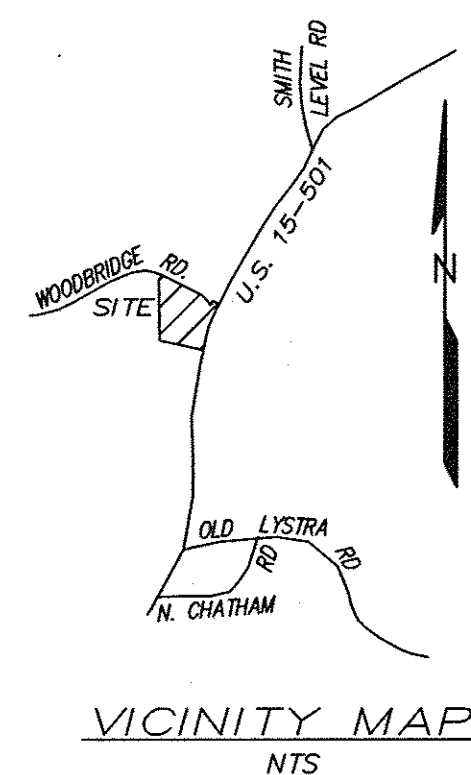
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|-------------------|-------------------|
| DATE: | DECEMBER 12, 2008 |
| HORIZONTAL SCALE: | 1"=30' |
| VERTICAL SCALE: | N/A |
| PROJECT MANAGER: | MAF |
| DRAWN BY: | RAM |
| PROJECT NO: | 15016 |
| DRAWING NAME: | 15016.DWG |

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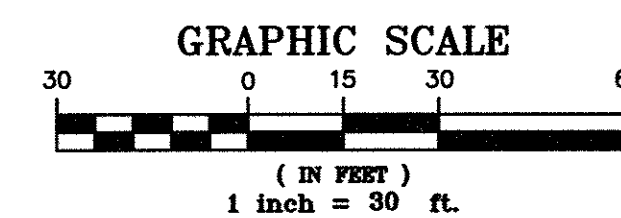
C6





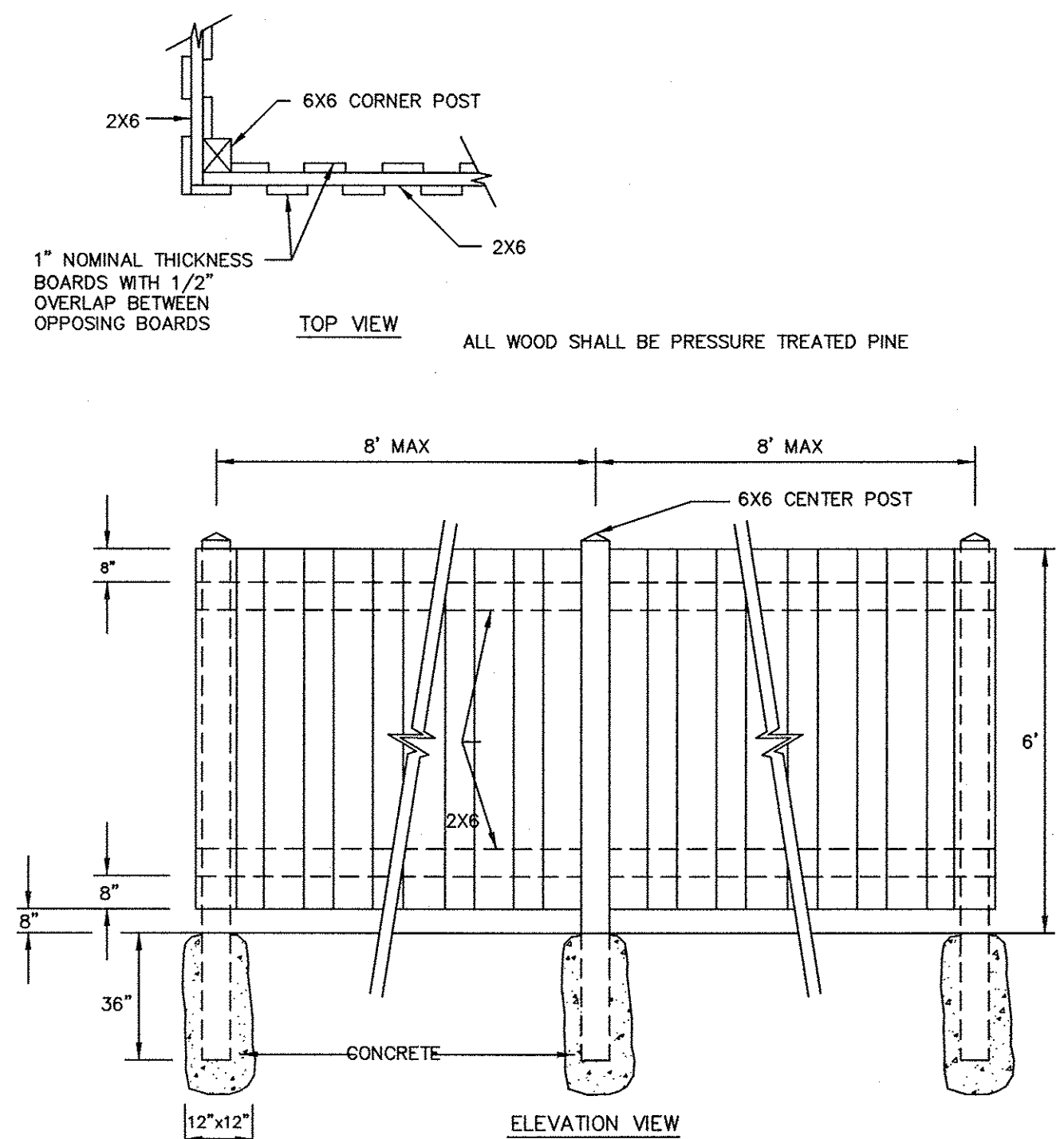
GRAPHIC SCALE

(IN FEET)
1 inch = 30 ft.

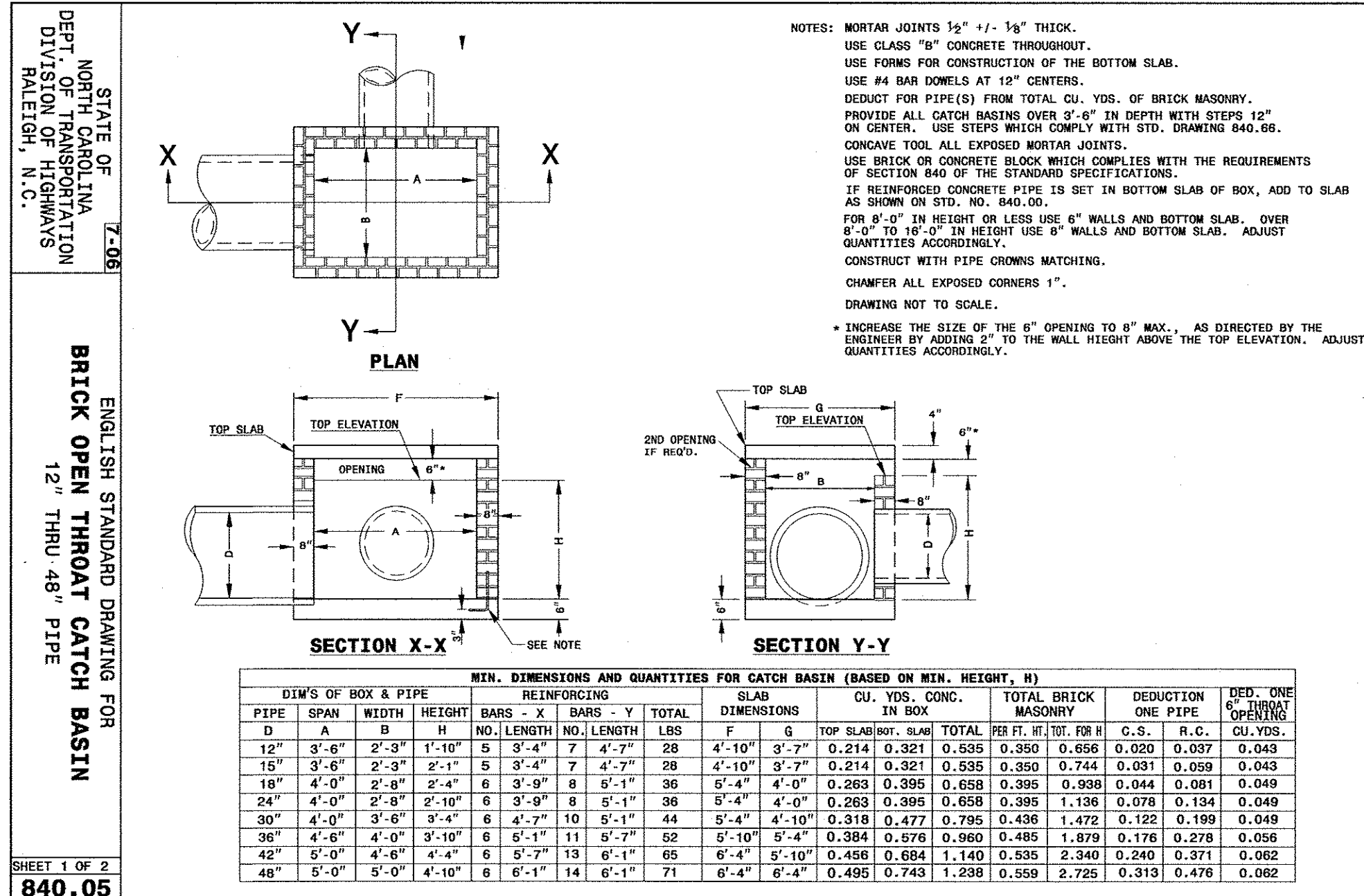
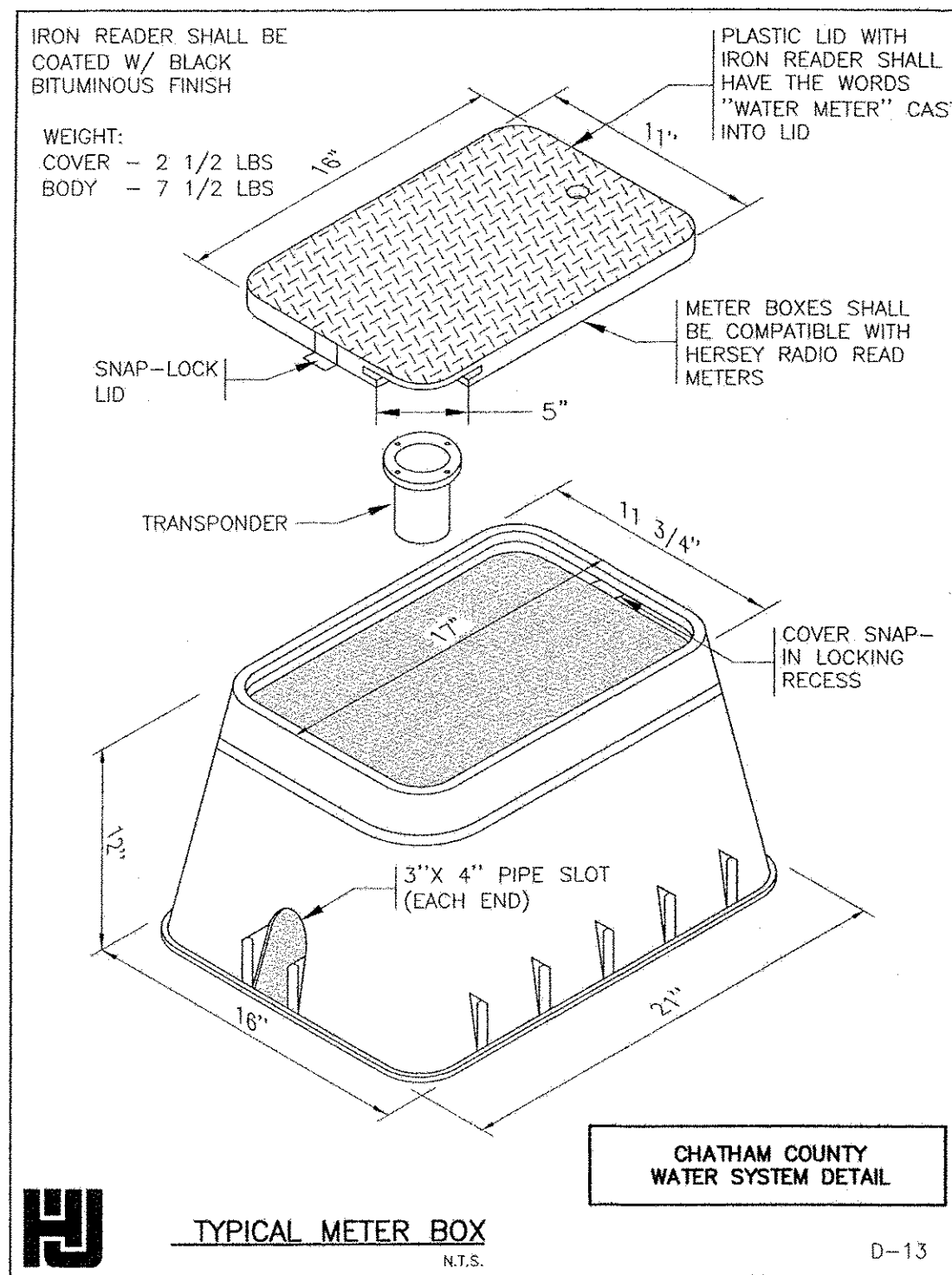


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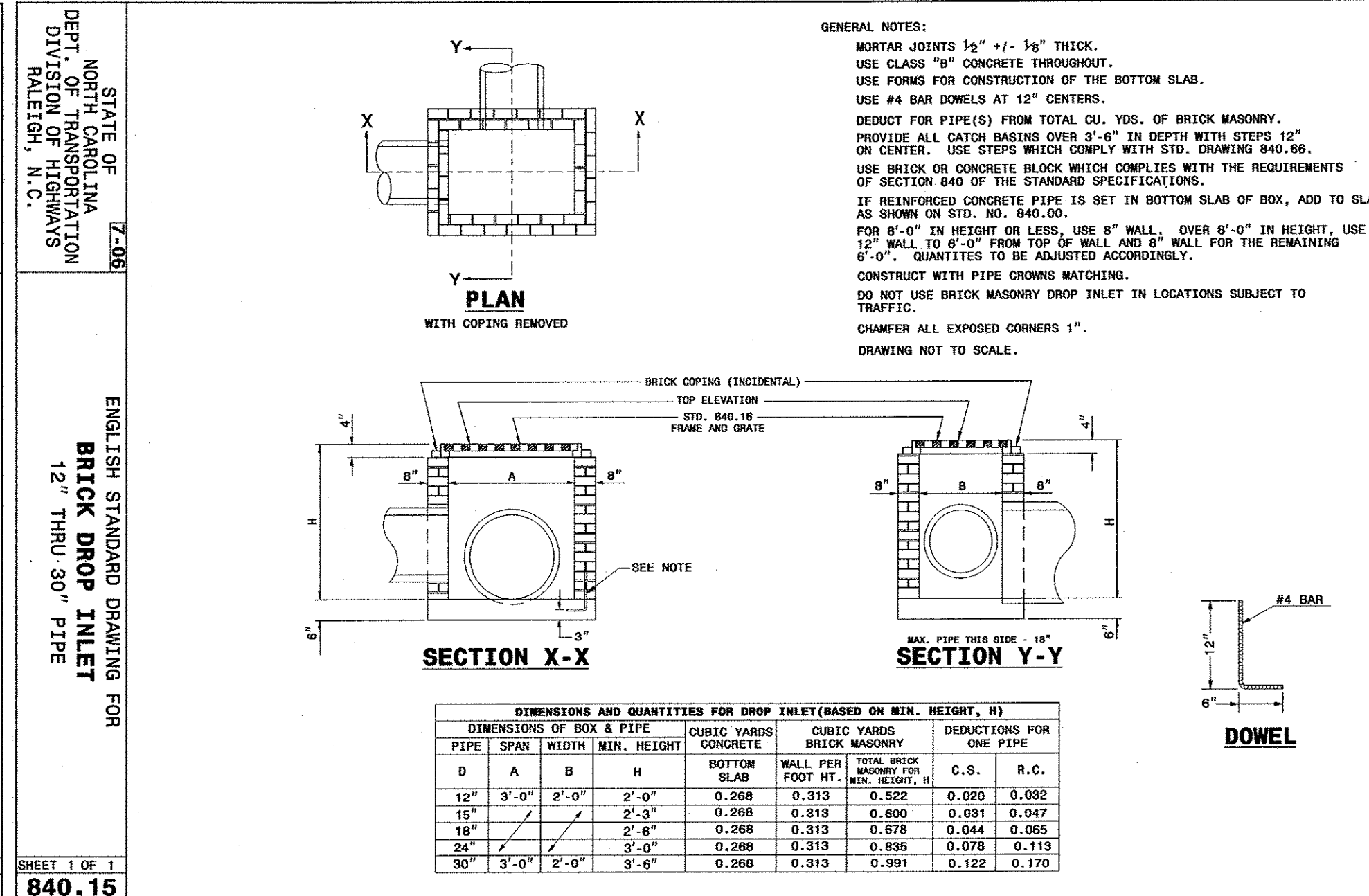
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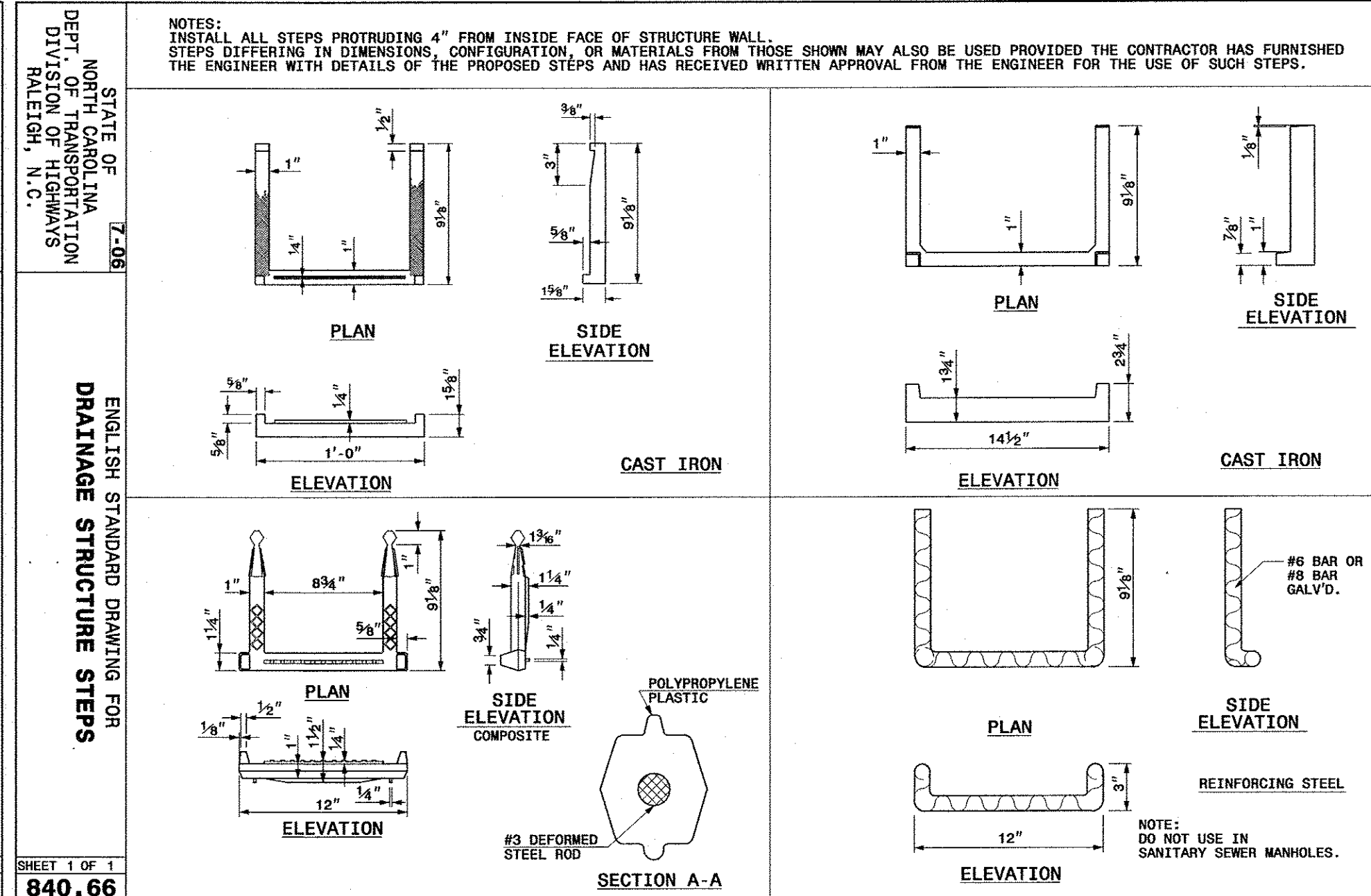
SHADOWBOX FENCE DETAIL



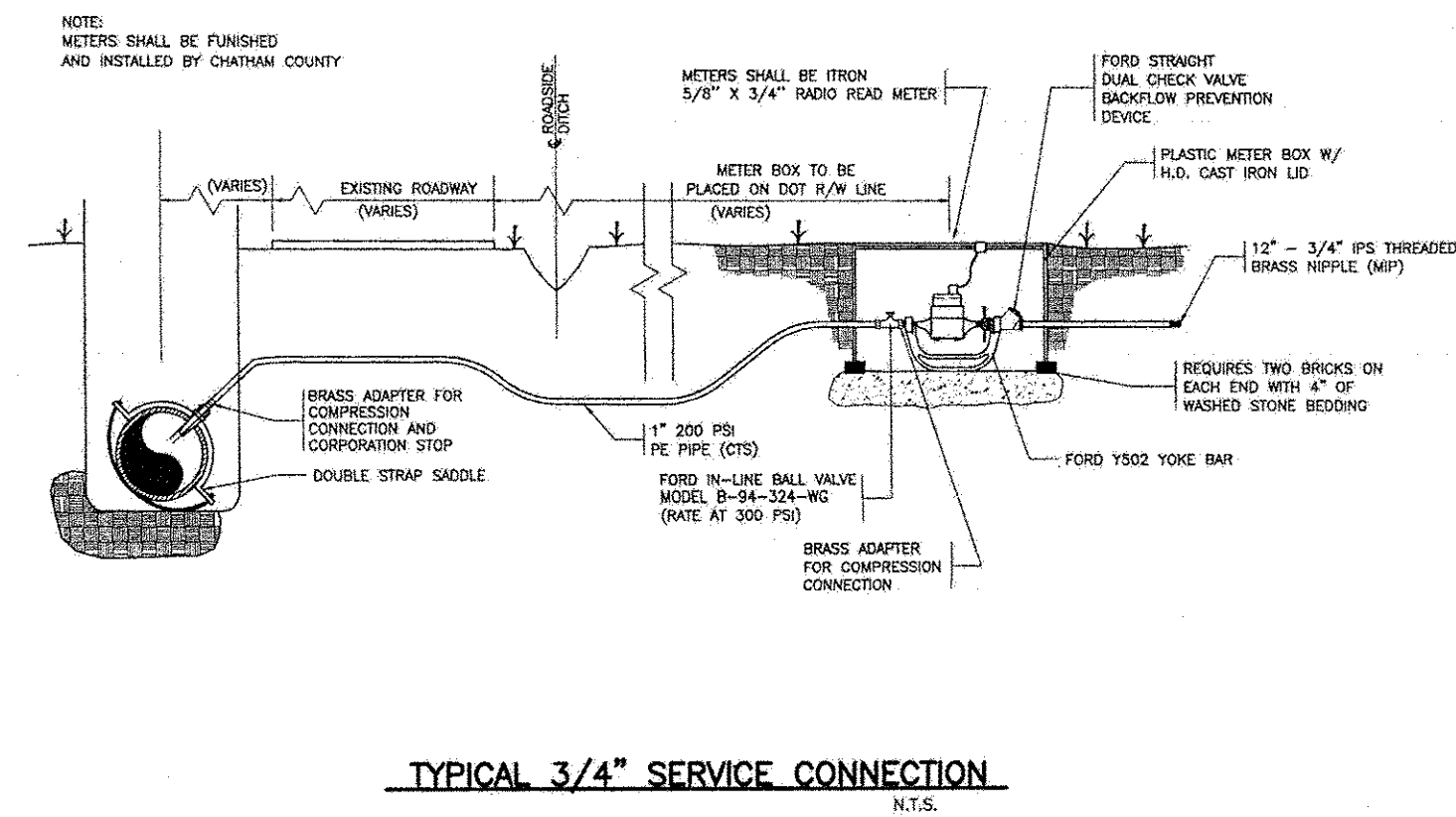
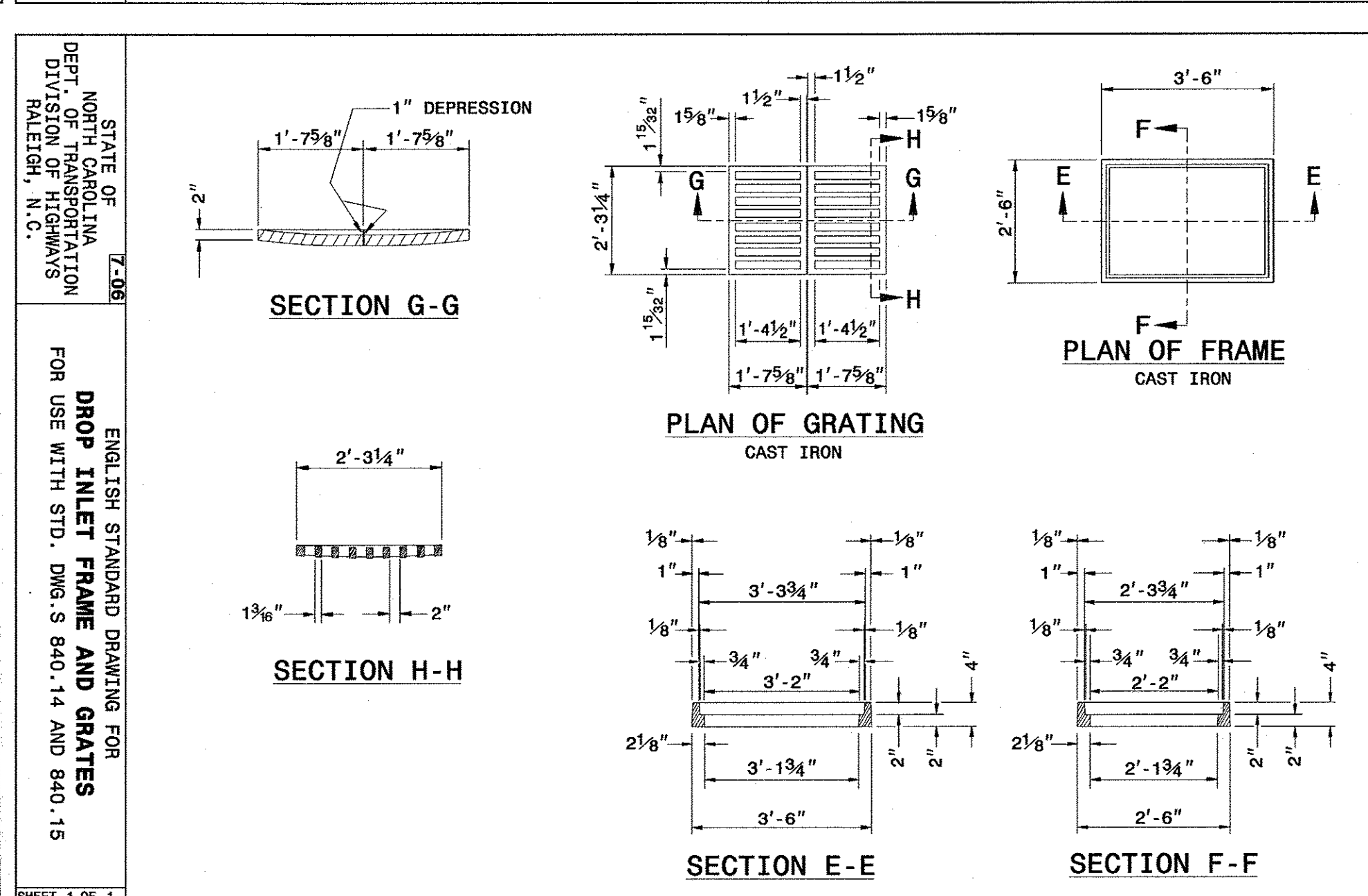
ENGLISH STANDARD DRAWING FOR
BRICK OPEN THROAT CATCH BASIN
12" THRU-48" PIPE



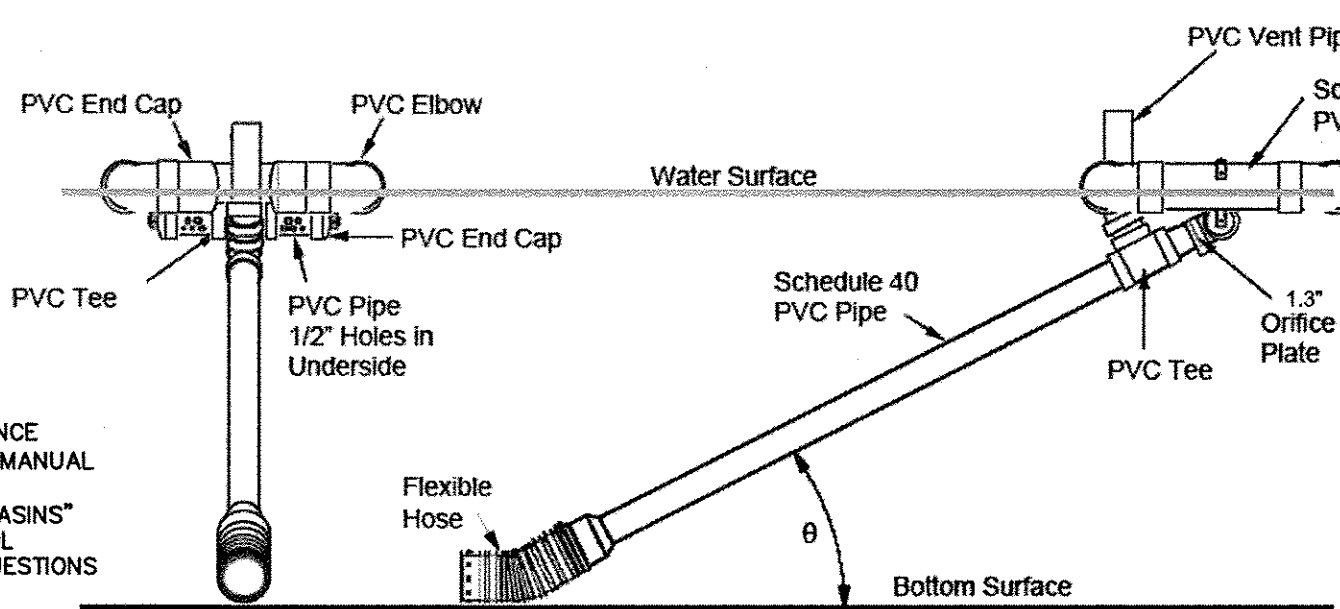
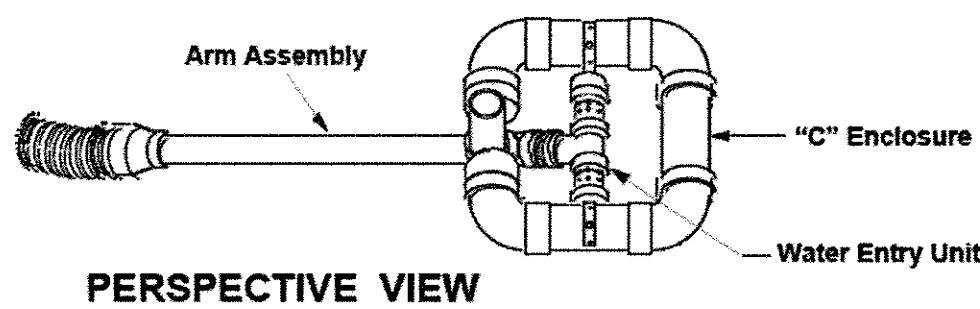
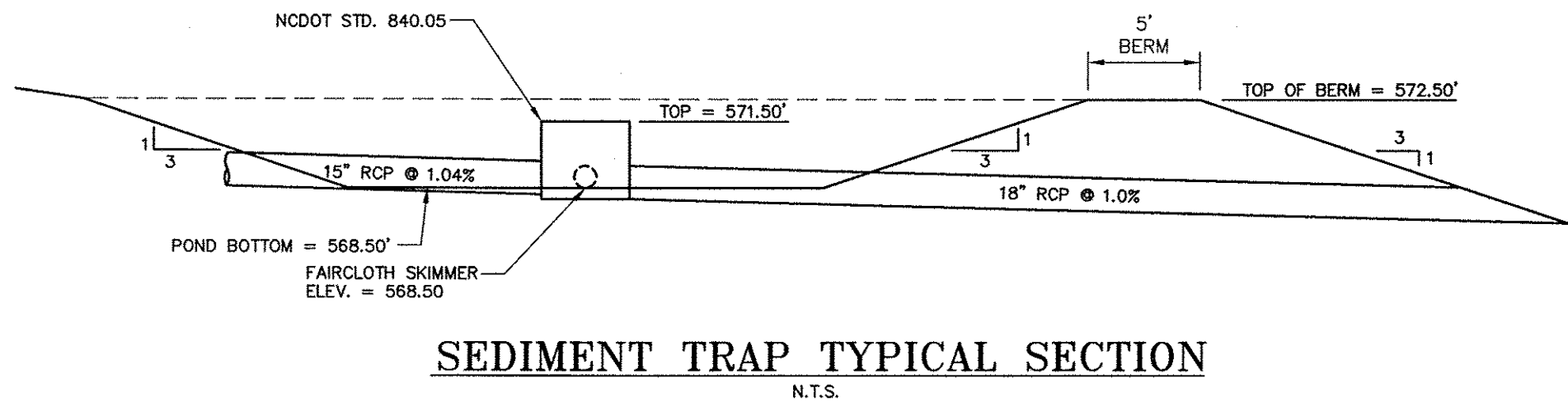
FOR WITH RIPPES



RECEIVED



CHATHAM COUNTY WATER SYSTEM DETAIL



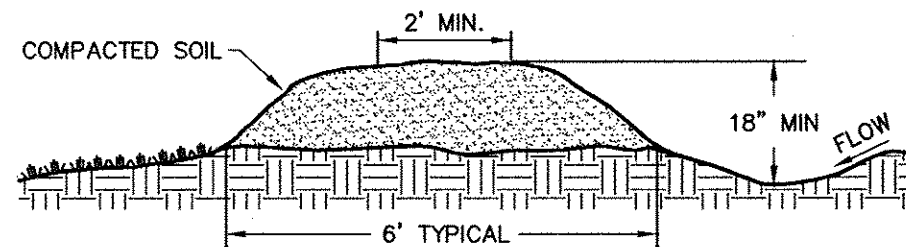
NOTE:
CONSTRUCT SKIMMER IN ACCORDANCE WITH THE LATEST VERSION OF "A MANUAL FOR DESIGNING, INSTALLING, AND MAINTAINING SKIMMER SEDIMENT BASINS" AVAILABLE FROM EROSION CONTROL PERSONNEL IF THERE ARE ANY QUESTIONS OR PROBLEMS.

CONSTRUCTION SPECIFICATIONS:

1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL. FILL AND COMPACT TO NATURAL GROUND LEVEL OR ABOVE, ALL DITCHES AND GULLIES THAT WILL BE CROSSED BY MACHINERY.
2. DISK THE BASE OF THE DIKE BEFORE PLACING FILL.
3. ENSURE THAT THE CONSTRUCTED CROSS-SECTION MEETS ALL DESIGN REQUIREMENTS.
4. COMPACT DIKE BY TRAKING WITH CONSTRUCTION EQUIPMENT.
5. ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER AT ANY POINT THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENTS AFTER IT HAS BEEN COMPACTED.
6. LEAVE SUFFICIENT AREA ALONG THE DIKE TO PERMIT MACHINE REGRAIDING AND CLEANOUT.
7. IMMEDIATELY SEED AND MULCH THE DIKE AFTER ITS CONSTRUCTION AND STABILIZE THE FLOW PORTION IN ACCORDANCE WITH DESIGN REQUIREMENTS.

MAINTENANCE:

INSPECT DIVERSION DIKES ONCE A WEEK, AND AFTER EVERY RAINFALL, IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIKE. CHECK OUTLETS, AND MAKE TIMELY REPAIRS AS NEEDED TO AVOID GULLY FORMATION. WHEN THE AREA ABOVE THE TEMPORARY DIVERSION DIKE IS PERMANENTLY STABILIZED, REMOVE THE DIKE, AND FILL AND STABILIZE THE CHANNEL TO BLEND WITH THE NATURAL SURFACE.



TEMPORARY DIVERSION DIKE
NTS

SEEDING SCHEDULE:

SEEDING MIXTURE:

| SPECIES ¹ | RATE (LB/AC) |
|----------------------|--------------|
| TALL FESCUE | 80 |
| SERICEA LESPEDEZA | 20 |
| KOBE LESPEDEZA | 20 |

SEEDING NOTES:

1. AFTER AUGUST 15, USE UNSCARIFIED SERICEA SEED.
2. WHERE PERIODIC MOWING IS PLANNED OR A NEAT APPEARANCE IS DESIRED, OMIT SERICEA AND INCREASE KOBE LESPEDEZA TO 40 LB/ACRE.
3. TO EXTEND SPRING SEEDING DATES INTO JUNE, ADD 15 LB/ACRE HULLED BERMUDAGRASS. HOWEVER, AFTER MID-APRIL IT IS PREFERABLE TO SEED TEMPORARY COVER.

NURSE PLANTS:

BETWEEN MAY 1 AND AUG. 15, ADD 10 LB/ACRE GERMAN MILLET OF 15 LB/ACRE SUDANGRASS. PRIOR TO MAY 1 OR AFTER AUG. 15 ADD 40 LB/ACRE RYE (GRAIN).

SEEDING DATES

| | BEST | POSSIBLE |
|--------------|--------------------|-------------------|
| FALL: | AUG. 25 - SEPT. 15 | AUG. 20 - OCT. 25 |
| LATE WINTER: | FEB. 15 - MAR. 21 | FEB. 1 - APR. 15 |

FALL IS BEST FOR TALL FESCUE AND LATE WINTER FOR LESPEDEZAS. OVERSEEDING OF KOBE LESPEDEZA OVER FALL-SEEDING TALL FESCUE IS VERY EFFECTIVE.

SOIL ADJUSTMENTS

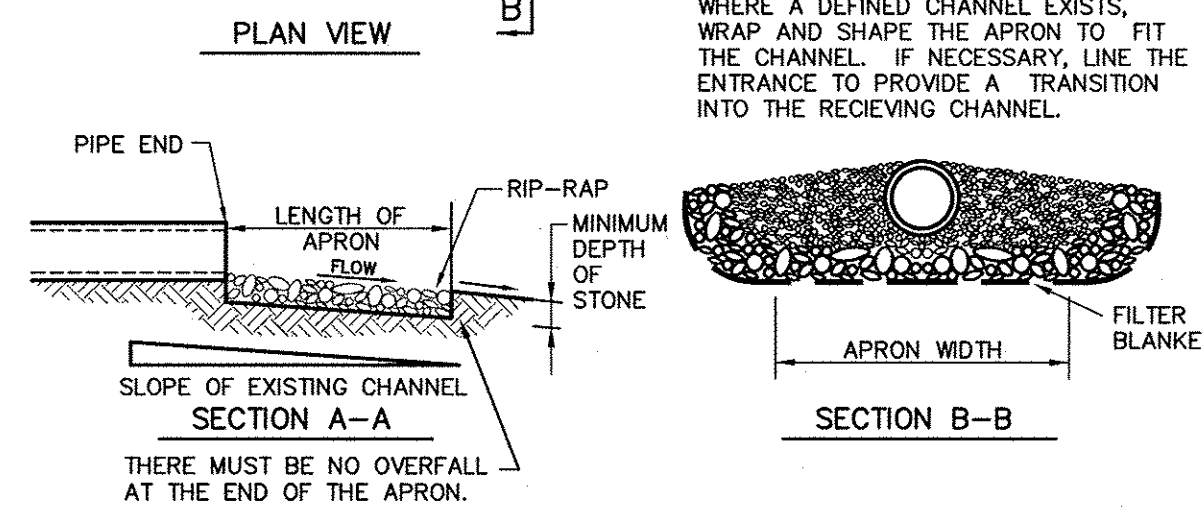
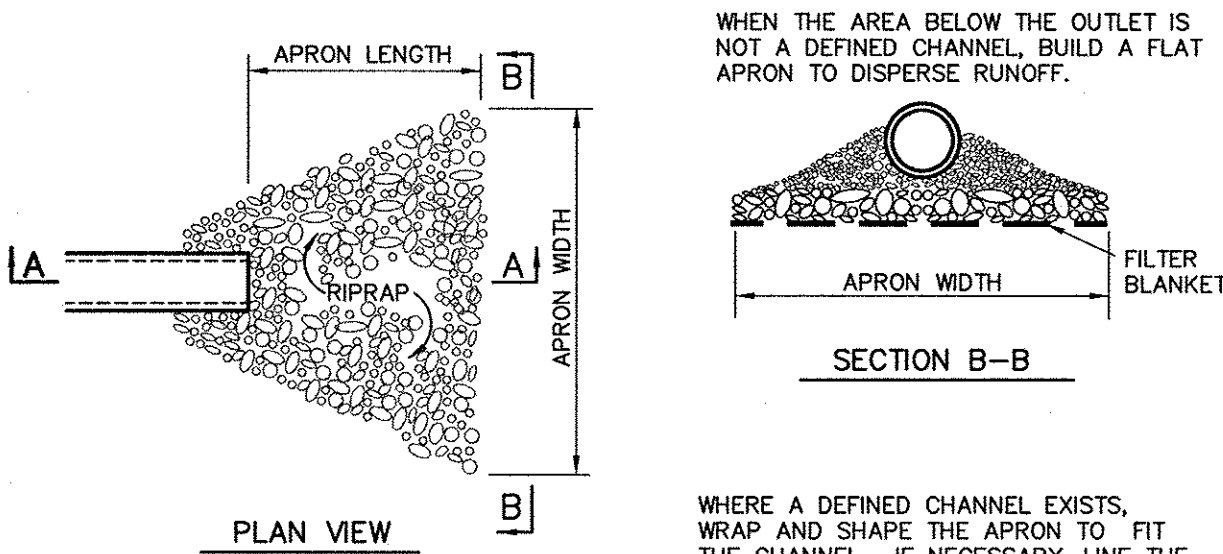
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 4,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER, EXCEPT, APPLY NO FERTILIZER TO AREAS WITHIN NEUSE RIVER RIPARIAN BUFFERS.

MULCH

APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR ROVING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:

REFERTILIZE IN THE SECOND YEAR UNLESS GROWTH IS FULLY ADEQUATE. MAY BE MOWED ONCE OR TWICE A YEAR, BUT MOWING IS NOT NECESSARY. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.



RIP RAP APRON

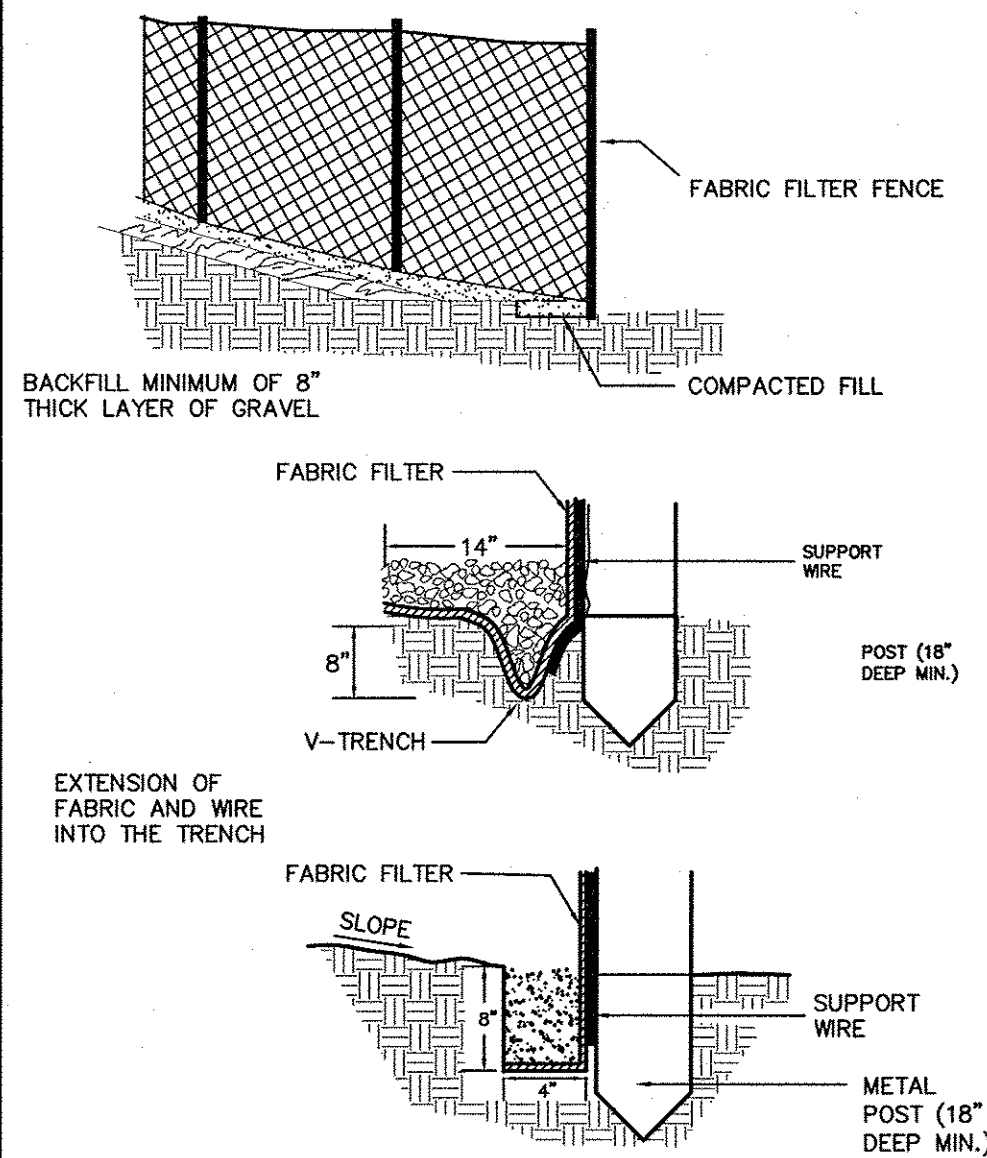
NTS

CONSTRUCTION SPECIFICATIONS

1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT ANY FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY INCREASING THE RIPRAP THICKNESS.
2. THE RIPRAP AND FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
3. FILTER CLOTH SHOULD BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE CLOTH.
4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT CARE MUST BE TAKEN TO AVOID DAMAGING THE FILTER.
5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER. IN NO CASE SHALL THE DIAMETER BE REDUCED BELOW THE THICKNESS INDICATED IN THE PLANS.
6. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED.
7. CONSTRUCT THE APRON AT ZERO GRADE WITH NO OVERFALL AT THE END. MAKE THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT.
8. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.
9. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

MAINTENANCE

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.



SILT FENCE

NTS

CONSTRUCTION SPECIFICATIONS:

1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 18 INCHES ABOVE THE GROUND SURFACE.
3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH OVERLAP TO THE NEXT POST.
4. SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING WIRES. EXTEND THE MESH SUPPORT TO THE BOTTOM OF THE TRENCH.
5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 18 INCHES.
6. EXTRA STRENGTH FILTER FABRIC WITH 6 FT POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. WIRE THE FILTER FABRIC DIRECTLY TO THE POSTS.
7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
8. BACKFILL THE TRENCH WITH COMPACTED SOIL OR GRAVEL PLACED OVER THE FILTER FABRIC.
9. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

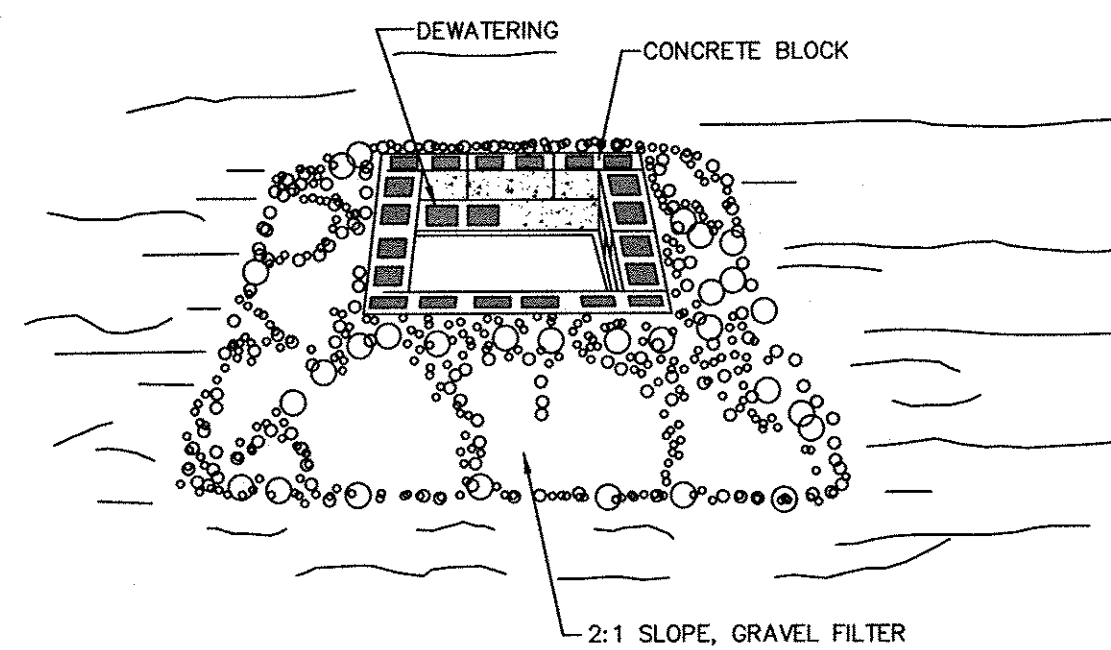
MAINTENANCE:

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

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT IMMEDIATELY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

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



CONSTRUCTION SPECIFICATIONS

1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE IN THE BOTTOM ROW TO ALLOW POOL DRAINAGE. THE FOUNDATION SHOULD BE EXCAVATED AT LEAST 2 INCHES BELOW THE CREST OF THE STORM DRAIN. PLACE THE BOTTOM ROW OF BLOCKS AGAINST THE EDGE OF THE STORM DRAIN FOR LATERAL SUPPORT AND TO AVOID WASHOUTS WHEN OVERFLOW OCCURS. IF NEEDED, GIVE LATERAL SUPPORT TO SUBSEQUENT ROWS BY PLACING 2 X 4 WOOD STUDS THROUGH BLOCK OPENINGS.
2. CAREFULLY FIT HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS OVER ALL BLOCK OPENINGS TO HOLD GRAVEL IN PLACE.
3. USE CLEAN GRAVEL, 3/4- TO 1/2-INCH IN DIAMETER, PLACED 2 INCHES BELOW THE TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER AND SMOOTH IT TO AN EVEN GRADE. DOT #57 WASHED STONE IS RECOMMENDED.
4. IF ONLY STONE AND GRAVEL ARE USED, KEEP THE SLOPE TOWARD THE INLET NO STEEPER THAN 3:1. LEAVE A MINIMUM 1-FT WIDE LEVEL STONE AREA BETWEEN THE STRUCTURE AND AROUND THE INLET TO PREVENT GRAVEL FROM ENTERING INLET. ON THE SLOPE TOWARD THE INLET, USE STONE 3 INCHES IN DIAMETER OR LARGER. ON THE SLOPE AWAY FROM THE INLET USE 1/2 - 3/4-INCH GRAVEL (NCDOT #57 WASHED STONE) AT A MINIMUM THICKNESS OF 1 FT.

MAINTENANCE

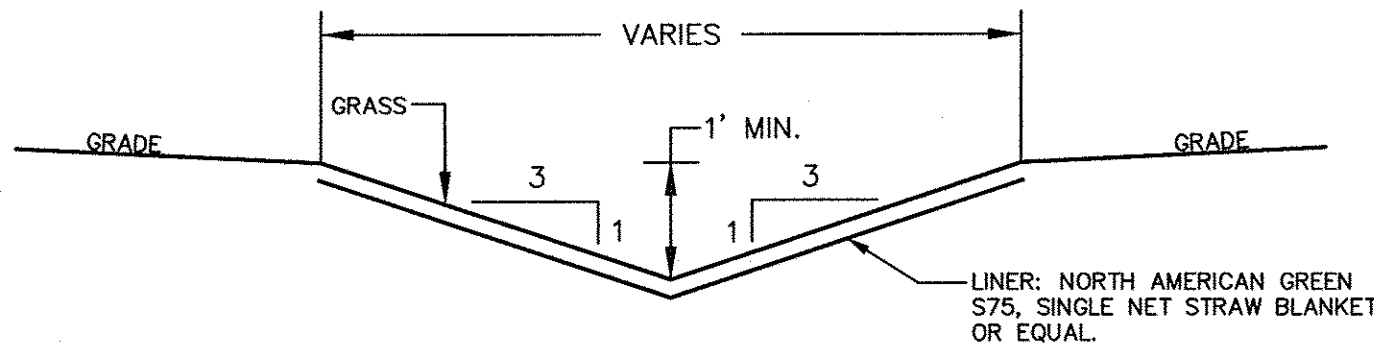
INSPECT THE BARRIER AFTER EACH RAIN AND MAKE REPAIRS AS NEEDED.

REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

BLOCK AND GRAVEL INLET PROTECTION

NTS



GRASS CHANNEL

NTS

NPDES PERMIT REQUIREMENTS

THIS PROJECT IS SUBJECT TO THE REQUIREMENTS OF NPDES PERMIT FOR CONSTRUCTION ACTIVITIES (PERMIT NO. NC0010000). THE ITEMS NOTED ARE OF THE OBLIGATIONS ASSOCIATED WITH THE NPDES **SOME** PERMIT PROCESS.

CONTROLS FOR STORMWATER DISCHARGES

1. PERMITTEE SHALL IMPLEMENT SOIL AND EROSION CONTROL PLAN, WHICH HAS BEEN APPROVED BY THE APPROVAL AUTHORITY. APPROVED PLAN IS CONSIDERED A REQUIREMENT OR CONDITION OF NPDES PERMIT. DEVIATION FROM APPROVED PLAN, OR APPROVED AMENDMENT TO PLAN, SHALL CONSTITUTE A VIOLATION OF TERMS AND CONDITIONS OF THIS GENERAL PERMIT EXCEPT THAT DEVIATION FROM APPROVED PLAN WILL BE ALLOWED TO CORRECT AN EMERGENCY SITUATION WHERE SEDIMENTS ARE BEING DISCHARGED OFF SITE, EVEN THOUGH APPROVED PLAN IS IN EFFECT. SUCH DEVIATION FROM APPROVED PLAN SHALL BE NOTED ON APPROVED PLAN MAINTAINED AT JOB SITE. SIGNED COPY OF APPROVED PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
2. EQUIPMENT UTILIZED DURING CONSTRUCTION ACTIVITY ON SITE MUST BE OPERATED AND MAINTAINED IN SUCH A MANNER AS TO PREVENT POTENTIAL OR ACTUAL POLLUTION OF SURFACE OR GROUND WATERS OF STATE. FUELS, LUBRICANTS, COOLANTS, AND HYDRAULIC FLUIDS, OR ANY OTHER PETROLEUM PRODUCTS, SHALL NOT BE DISCHARGED ONTO GROUND OR INTO SURFACE WATERS. SPENT FLUIDS SHALL BE DISPOSED OF IN A MANNER SO AS NOT TO ENTER WATERS, SURFACE OR GROUND, OF STATE AND IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL DISPOSAL REGULATIONS. ANY SPILLED FLUIDS SHALL BE CLEANED UP TO EXTENT PRACTICABLE AND DISPOSED OF IN A MANNER SO AS NOT TO ALLOW THEIR ENTRY INTO WATERS, SURFACE OR GROUND, OF STATE.
3. HERBICIDE, PESTICIDE, AND FERTILIZER USAGE DURING THE CONSTRUCTION ACTIVITY SHALL BE RESTRICTED TO THOSE MATERIALS APPROVED BY EPA AND SHALL BE IN ACCORDANCE WITH LABEL RESTRICTIONS.
4. ALL WASTES COMPOSED OF BUILDING MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH NORTH CAROLINA GENERAL STATUTES.
5. PERMITTEE SHALL REPORT TO CENTRAL OFFICE OR APPROPRIATE REGIONAL OFFICE ANY NONCOMPLIANCE WHICH MAY ENDANGER HEALTH OR ENVIRONMENT. ANY INFORMATION SHALL BE PROVIDED ORALLY WITHIN 24 HOURS FROM TIME PERMITTEE BECAME AWARE OF CIRCUMSTANCES. WRITTEN SUBMISSION SHALL ALSO BE PROVIDED WITHIN 5 DAYS OF TIME PERMITTEE BECAMES AWARE OF CIRCUMSTANCES. WRITTEN SUBMISSION SHALL CONTAIN DESCRIPTION OF NONCOMPLIANCE, AND ITS CAUSES; PERIOD OF NONCOMPLIANCE, INCLUDING EXACT DATES AND TIMES, AND IF NONCOMPLIANCE HAS NOT BEEN CORRECTED, ANTICIPATED TIME IT IS EXPECTED TO CONTINUE, AND STEPS TAKEN OR PLANNED TO REDUCE, ELIMINATE, AND PREVENT REOCCURRENCE OF THE NONCOMPLIANCE (SEE SPECIFIC PERMIT REQUIREMENTS FOR REPORTING INFORMATION).

MINIMUM MONITORING AND REPORTING REQUIREMENTS

MINIMUM MONITORING AND REPORTING REQUIREMENTS ARE AS FOLLOWS UNLESS OTHERWISE APPROVED IN WRITING BY DIRECTOR OF DIVISION OF ENVIRONMENTAL MANAGEMENT. ALL SEDIMENTATION AND EROSION CONTROL FACILITIES SHALL BE INSPECTED BY OR UNDER DIRECTION

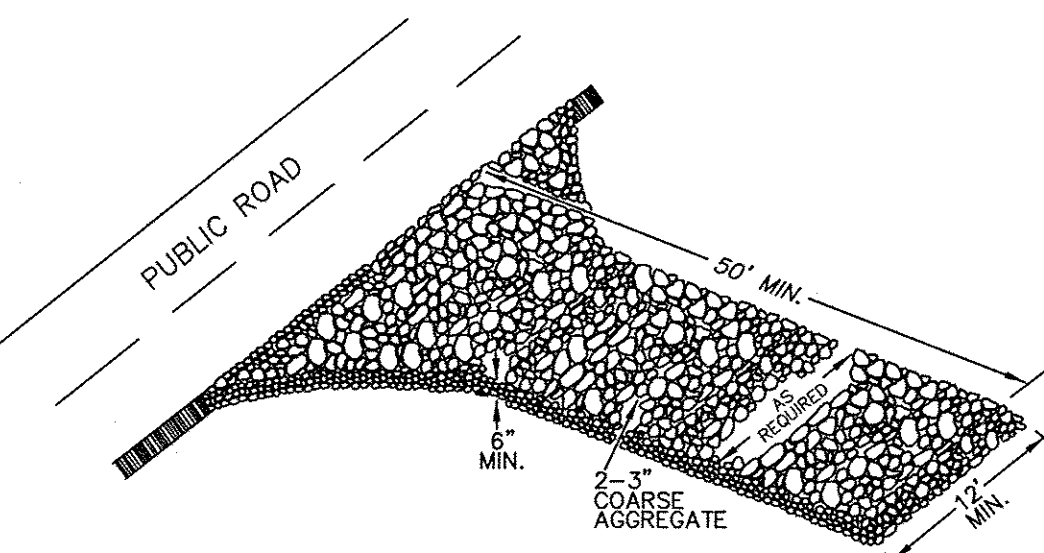
1. OF THE PERMITTEE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF RAIN PER 24 HOUR PERIOD. STORMWATER RUNOFF DISCHARGES SHALL BE INSPECTED BY OBSERVATION FOR STORMWATER DISCHARGE.

2. CHARACTERISTICS AS DEFINED BELOW AT THE ABOVE FREQUENCY TO EVALUATE THE EFFECTIVENESS OF THE POLLUTION CONTROL FACILITIES OR PRACTICES. IF ANY VISIBLE OFF-SITE SEDIMENTATION IS LEAVING SITE, CORRECTIVE ACTION SHALL BE TAKEN TO REDUCE THE DISCHARGE OF SEDIMENTS.

| STORMWATER DISCHARGE CHARACTERISTICS | MONITORING TYPE 1 | MONITORING LOCATION 2 |
|--|-------------------|-----------------------|
| COLOR | | SDO |
| ODOR | | SDO |
| CLARITY | | SDO |
| FLOATING SOLIDS | | SDO |
| SUSPENDED SOLIDS | | SDO |
| FOAM | | SDO |
| OIL SHEEN | | SDO |
| OTHER OBVIOUS INDICATORS OF STORMWATER POLLUTION | | SDO |

FOOTNOTES:

1. MONITORING TYPE: MONITORING REQUIRES A QUALITATIVE OBSERVATION OF EACH STORMWATER OUTFALL. NO ANALYTICAL TESTING OR SAMPLING IS REQUIRED.
2. SAMPLE LOCATION: STORMWATER DISCHARGE OUTFALL (SDO) OPERATOR SHALL KEEP A RECORD OF INSPECTIONS. VISIBLE SEDIMENTATION FOUND OFF SITE
3. SHALL BE RECORDED WITH A BRIEF EXPLANATION AS TO THE MEASURES TAKEN TO PREVENT FUTURE RELEASES AS WELL AS ANY MEASURES TAKEN TO CLEAN UP SEDIMENT THAT HAS LEFT THE SITE. THIS RECORD SHALL BE MADE AVAILABLE TO DEM OR AUTHORIZED AGENT UPON REQUEST. REPORTS SHALL BE MAINTAINED ONSITE AT ALL TIMES. PERMITTEE SHALL AT ALL TIMES PROVIDE OPERATION AND MAINTENANCE NECESSARY TO OPERATE
4. PERMITTED STORMWATER CONTROLS AT OPTIMUM EFFICIENCY.



CONSTRUCTION ENTRANCE/EXIT

NTS

CONSTRUCTION SPECIFICATIONS:

- 1.) CLEAR THE ENTRANCE AND EXIT OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
- 2.) PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
- 3.) PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
- 4.) USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE THE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

| REV. | DATE | DESCRIPTION |
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DATE: DECEMBER 12, 2008
HORIZONTAL SCALE: N/A
VERTICAL SCALE: N/A
PROJECT MANAGER: MAF
DRAWN BY: MP
PROJECT NO: 15016
DRAWING NAME: 15016-DETAILS.DWG

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