

SITE DATA

PIN NUMBERS: R04820-005-001-000, R04820-005-004-000, R04820-005-003-000, R04820-005-002-000
ZONING: O & I-1(CD)

PROJECT ADDRESS
 BLDG 'A' ADDRESS: 4 NORTH 26th St. WILMINGTON, NC 28405
 BLDG 'B' ADDRESS: 8 NORTH 26th St. WILMINGTON, NC 28405
 BLDG 'C' ADDRESS: 4 NORTH 26th St. WILMINGTON, NC 28405
 2611 MARKET St. WILMINGTON, NC 28405

TOTAL ACREAGE IN PROJECT BOUNDARY: 77,733 S.F. (1.78 AC.)

BUILDING SIZE IN SQUARE FEET

EXISTING VET BUILDING "A"	1,209 S.F. FOOTPRINT
PROPOSED VET BUILDING "B"	5,131 S.F. FOOTPRINT
EXISTING HOUSE (PHASE I) "C"	1,593 S.F. FOOTPRINT (PHASE I USE)
PROFESSIONAL OFFICE/VET USE	
PROPOSED VET BUILDING "D" (PHASE II)	5,200 S.F. FOOTPRINT
(BLDG. C DEMOLISHED OR MOVED FOR PHASE II)	
SHED "E"	323 S.F. FOOTPRINT
(RELOCATED TO ACCOMMODATE POND)	
POLE BARN "F"	939 S.F. FOOTPRINT STORAGE
SHED "G"	236 S.F. FOOTPRINT STORAGE

CALCULATION FOR BUILDING COVERAGE
 PROPOSED COVERAGE (ALL BUILDINGS): 13,040 S.F. + 77,733 S.F. = 16,78%
TOTAL IMPERVIOUS BEFORE & AFTER DEVELOPMENT

BEFORE DEVELOPMENT	
BUILDINGS	4,302 S.F.
SIDEWALKS / PORCH	827 S.F.
DRIVEWAYS	1,547 S.F.
TOTAL	6,656 S.F. + 77,733 S.F. = 8.5%
AFTER DEVELOPMENT	
BUILDINGS (CFPIA)	13,040 S.F.
SIDEWALKS / PORCH	5,482 S.F.
DRIVEWAYS	17,813 S.F.
TOTAL	36,335 S.F. + 77,733 S.F. = 46.7%

PARKING REQUIRED

BLDG. A VETERINARY USE (1,680 S.F. + 250 G.S.F.)	= 7 SPACES
BLDG. B VETERINARY USE (7,231 S.F. + 250 G.S.F.)	= 29 SPACES
BLDG. D PROFESSIONAL USE OR VET (5,200 S.F. + 300 G.S.F.)	= 17 SPACES
TOTAL PARKING REQUIRED	= 53 SPACES

PARKING PROVIDED

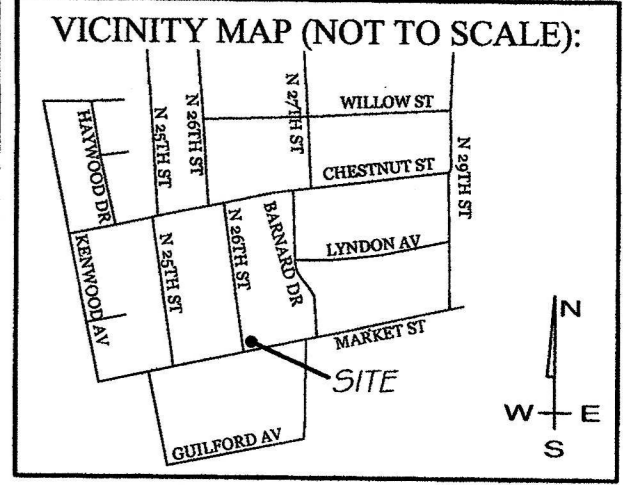
BLDG. A	7 SPACES
BLDG. B	31 SPACES
BLDG. D	18 SPACES
TOTAL PARKING PROVIDED	56 SPACES

- GENERAL NOTES:**
- EXISTING WATER AND SEWER LINES ARE PART OF CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPIA)
 - ALL UTILITIES WILL BE UNDERGROUND
 - OFF SITE STORM DRAINAGE FACILITIES CITY OF WILMINGTON
 - SOLID WASTE WILL BE HANDLED BY ROLL OUT CONTAINERS
 - ALL EXISTING FENCE TO BE REMOVED UNLESS NOTED TO REMAIN. REPLACE WOOD FENCING BOARDS AS NEEDED. SEE SHEET I-1.
 - RUNOFF FROM ROOFTOPS TO BE DIRECTED TO PROPOSED STORMWATER POND. EXISTING BUILDING 'A' ROOF DRAINS TO BE PLUMBED TO PROPOSED POND FOREBAY.

- DEVELOPMENT NOTES:**
- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
 - PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & NEW HANOVER COUNTY REGULATIONS.
 - PROPERTY IS LOCATED IN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP, COMMUNITY-PANEL NUMBER 3703146-J, DATED 04/06/06
 - ELEVATIONS SHOWN PROVIDED BY "NAVD 88" BENCH MARK
 - THE 10' STORMWATER POND MAINTENANCE EASEMENT ENCLOSED INTO THE 20' BUFFER YARD 5'. INSTALL THE BUFFER YARD LANDSCAPING IN FIRST 15' OF THE BUFFER.

- UTILITY NOTES:**
- EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS. EXISTING MAINS ARE SHOWN PER CFPIA GIS.
 - ALL UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
 - ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CFPIA TECHNICAL SPECIFICATIONS & STANDARDS.
 - PROJECT SHALL COMPLY WITH CFPIA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METERS(CAN) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND N.C.D.E.N.R. HAS ISSUED THEIR "FINAL APPROVAL". CALL 943-9910 FOR INFORMATION.
 - ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPIA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCPCOR OR ASSE.
 - WATER & SEWER SERVICES CAN NOT BE ACTIVATED ON NEW MAINS UNTIL THE ENGINEER'S CERTIFICATION AND AS-BUILTS ARE RECEIVED AND "FINAL APPROVAL" ISSUED BY THE PUBLIC WATER SUPPLY SECTION OF NCENR. AND "FINAL ENGINEERING CERTIFICATION" ISSUED BY DIVISION OF WATER QUALITY SECTION OF NCENR.
 - IF CONTRACTOR DESIRES CFPIA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
 - WHEN PVC WATER MAINS ARE PROPOSED, THE PIPES ARE TO BE MARKED WITH NO. 10 INSULATED, SINGLE-STRAND COPPER WIRE INSTALLED & STRAPPED TO THE PIPES WITH DUCT TAPE. THIS IS TO BE ACCESSIBLE IN ALL VALVES AND METER BOXES TO AID IN FUTURE LOCATION OF FACILITIES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF EXISTING UTILITIES DURING CONSTRUCTION. CALL 1-800-462-4949. CONTRACTOR IS RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ANY UTILITIES, CURB & GUTTER, PAVEMENT, ETC. THAT MAY BE DAMAGED DURING CONSTRUCTION. DAMAGED ITEMS SHALL BE REPAIRED TO AT LEAST THE QUALITY OR WORKMANSHIP FOUND IN THE ORIGINAL ITEM.
 - THE BELLSOUTH CONTACT IS STEVE DAYVAULT, BUILDING INDUSTRY CONSULTANT, AT 910-392-9712. CONTACT HIM PRIOR TO STARTING THE PROJECT IN ORDER TO FACILITATE GOOD COMMUNICATION AND MAXIMUM FLEXIBILITY.
 - THE PROCESS FOR TELEPHONE CABLE PLACEMENT: * FINAL GRADE WILL NEED TO BE ESTABLISHED. * POWER WILL PLACE THEIR CABLE FIRST - APPROXIMATELY 3' DEEP. * BELLSOUTH & CABLE TV WILL THEN PLACE THEIR CABLE AT APPROXIMATELY 2' DEEP.
 - SOLID WASTE DISPOSAL IS TO BE ROLL-OUT CONTAINERS.

- TRAFFIC NOTES:**
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY & FOR DRIVEWAY ARE TO BE THERMOPLASTIC & MEET CITY AND/OR NCDOT STANDARDS.
 - TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS.
 - CONTACT TRAFFIC ENGINEERING, AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN. ADD A NOTE TO CALL TRAFFIC ENGINEERING A MIN. OF FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE R/W.
 - ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 - CONTACT KAREN DIXON AT 341-7888 TO DISCUSS STREET LIGHTING OPTIONS. THE LANDSCAPING PLAN WILL BE NEEDED TO DETERMINE STREET LIGHT LOCATION.
 - TACTILE WARNING MATS TO BE INSTALLED AT ALL WALKWAY RAMPS.
 - A LANDSCAPING PLAN, INDICATING THE LOCATION OF REQUIRED STREET TREES AND PARKS & RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN. PLAN SHALL ADHERE TO SD 15-17.
 - ALL TRAFFIC CONTROL SIGNS AND MARKINGS OPEN TO RIGHTS-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 - ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 - A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5816 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.



REVISIONS

NO.	DATE	DESCRIPTION

INTRACOASTAL ENGINEERING, PLLC

91 Pelican Point Road
 Wilmington, North Carolina 28409
 Phone: 910.409.3567
 Email: charlie@intracoastalengineering.com
 License Number P-0662

SITE, GRADING, UTILITY & STORMWATER PLAN FOR FOREST HILLS VETERINARY HOSPITAL WILMINGTON, NORTH CAROLINA

PROFESSIONAL SEAL

CHARLES D. CAYLER
 ENGINEER
 032555
 1-23-15

CLIENT INFORMATION:

PAUL M. GIGLIOTTI, D.V.M.
 8 NORTH 26TH STREET
 WILMINGTON, NC 28405
 910-362-9955

DRAWN:	GCD	SHEET SIZE:	24 x 36
CHECKED:	CDC	DATE:	1/23/15
APPROVED:	CDC	SCALE:	1" = 30'
PROJECT NUMBER:	2014-025		

DRAWING NUMBER: **C-1** 1 OF 5

STORMWATER MANAGEMENT PLAN
APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE _____ PERMIT # _____
 SIGNED _____

Approved Construction Plan

Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

EXISTING TREE LEGEND

	EXISTING TREE TO BE REMOVED
	EXISTING TREE TO REMAIN NOTE #1 ARBORIST TO DETERMINE CONDITION OF TREE & MAKE RECOMMENDATION OR SAVING OR REMOVAL BASED ON TRC COMMENT

PROJECT PHASING

PHASE I - PHASE I WILL INCLUDE BUILDINGS A,B,C AND ALL PARKING. THE REQUIRED STORM WATER POND WILL ALSO BE BUILT IN PHASE I. THE EXISTING RESIDENTIAL STRUCTURE WILL BE LEASED AS A SMALL PROFESSIONAL OFFICE OR WILL BE USED AS VET BUILDING UNTIL PHASE II TAKES PLACE. AT WHICH TIME BUILDING C WILL BE DEMOLISHED OR GIVEN AWAY FOR RELOCATION TO MAKE ROOM FOR CONSTRUCTION OF BUILDING D

PHASE II - BUILDING D WILL BE CONSTRUCTED WITHIN 3 YEARS OF CO BEING ISSUED ON CONSTRUCTION OF BUILDING B, NEW VET BUILDING. IF OWNER IS NOT ABLE TO MOVE FORWARD WITH CONSTRUCTION OF BUILDING D WITHIN THIS TIME FRAME THEY WILL BE ABLE TO REQUEST AN ADDITIONAL 3 YEAR EXTENSION TO CONSTRUCT BUILDING D.

LEGEND

	PROPERTY LINE
	EASEMENT
	PROPOSED SEWER
	LIMITS OF DISTURBANCE
	TEMPORARY SILT FENCE
	RUNOFF DIRECTION
	SPOT ELEVATION
	ENERGY DISSIPATER
	LANDSCAPING
	EXISTING SPOT GRADE
	FIRE HYDRANT
	POWER POLE
	INLET PROTECTION

Scale: 1" = 30'

LATE WINTER & EARLY SPRING TEMPORARY GRASSING DETAIL

SEEDING MIXTURE

SPECIES

- Rye (grain)
- Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)

Omit annual Lespedeza when duration of temporary cover is not to extend beyond June.

SEEDING DATES:

- Mountains - Above 2500 ft. Feb. 15-May 15
- Below 2500 ft. Feb. 1-May 1
- Piedmont - Jan. 1-May 1
- Coastal Plain - Dec. 1-Apr. 15

SOIL AMENDMENTS

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

MULCH

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

Re-seed, if growth is not fully adequate. Re-seed, fertilize and mulch immediately following erosion or other damage.

TEMPORARY SUMMER GRASSING DETAIL

SEEDING MIXTURE

SPECIES

- GERMAN MILLET

RATE (lb/acre)

40

IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUNDGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LB/ACRE.

SEEDING NOTES

- Mountains - MAY 15-AUG. 15
- Piedmont - MAY 1-AUG. 15
- COASTAL PLAIN - APR. 15-AUG. 15

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

TEMPORARY FALL GRASSING DETAIL

SEEDING MIXTURE

SPECIES

- Rye (grain)

RATE (lb/acre)

120

SEEDING NOTES

- Mountains - MAY 15-AUG. 15
- COASTAL PLAIN AND PIEDMONT - AUG. 15-DEC. 30

SOIL AMENDMENTS

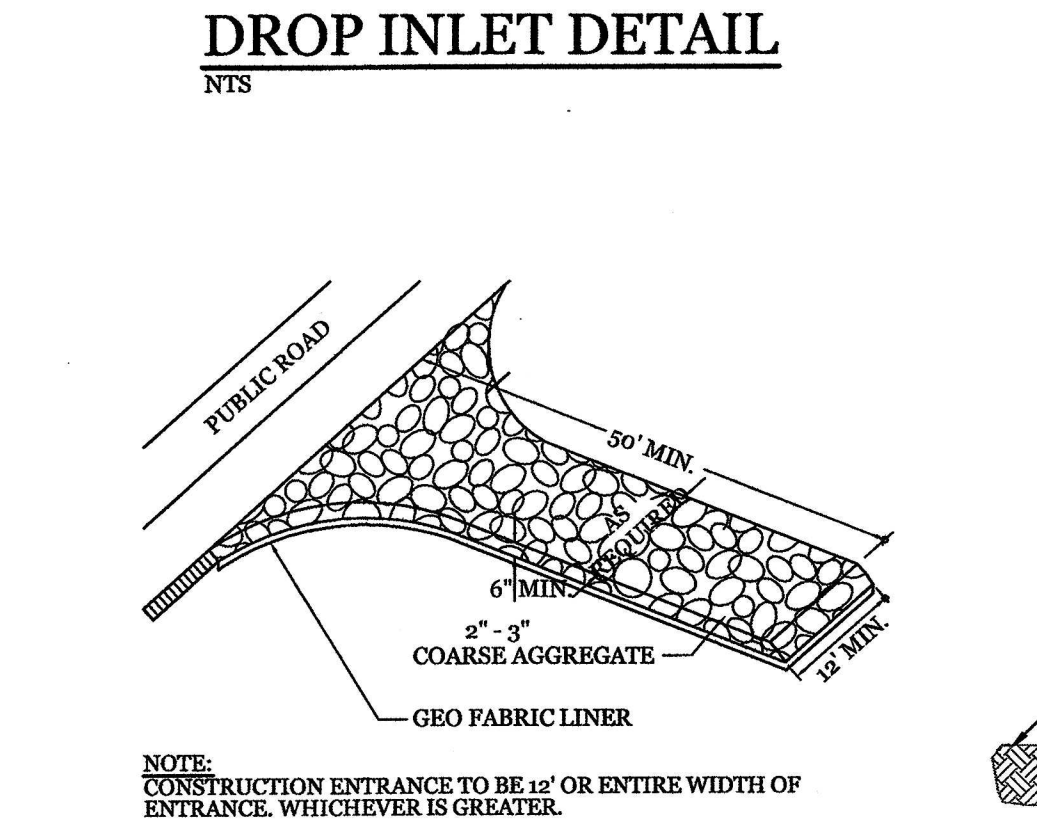
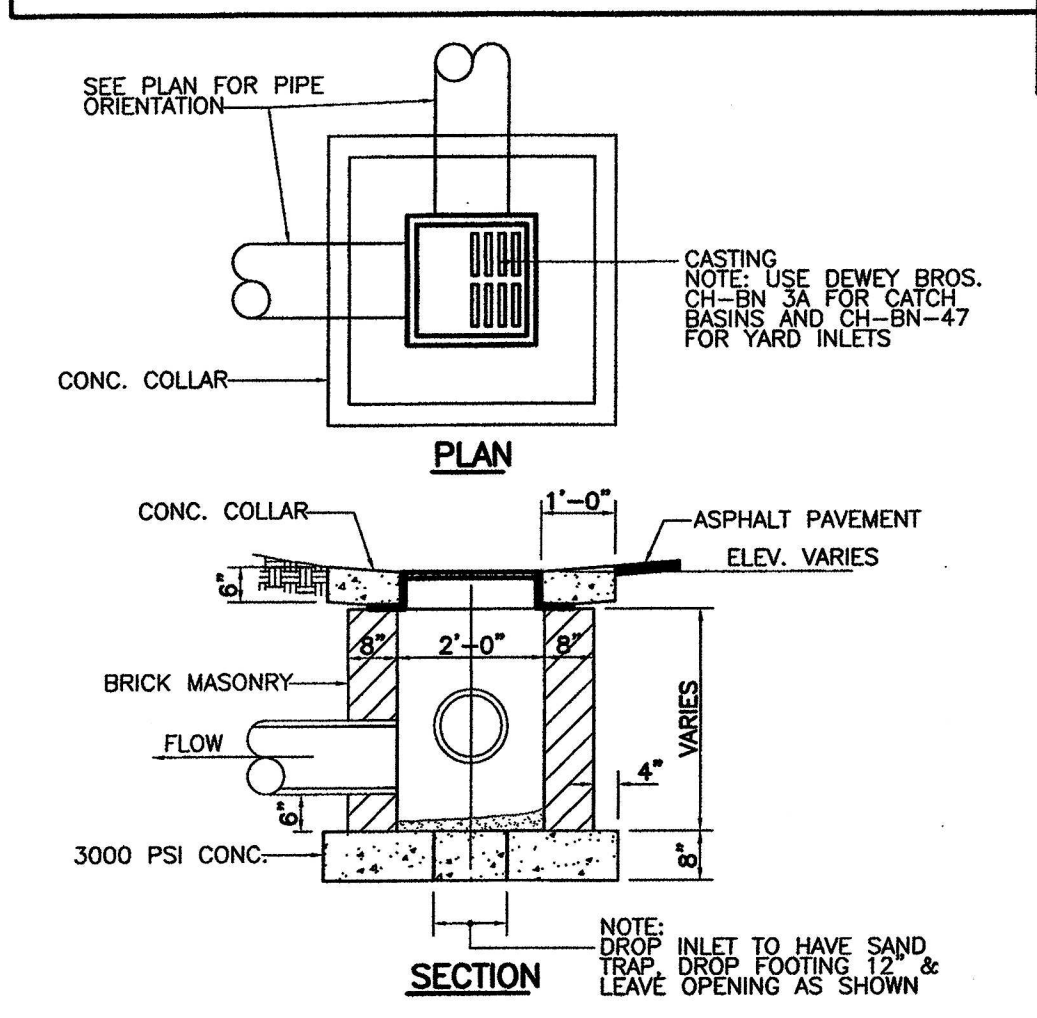
FOLLOW SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 1,000 LB/ACRE 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY TACKLING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE

Repair and reseed damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) Lespedeza in late February or early March.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

NTS

SPRING-SUMMER PERMANENT GRASSING DETAIL

SEEDING MIXTURE

SPECIES

- PENSACOLA BAHIAGRASS
- SERICIA LESPEDEZA
- COMMON BERMUDAGRASS
- GERMAN MILLET
- FALL FESCUE

RATE (lb/acre)

- 50
- 30
- 10
- 10
- 50

SEEDING NOTES

- WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICIA
- USE COMMON BERMUDAGRASS ONLY ON ISOLATED SITES WHERE IT CANNOT BECOME A PEST. BERMUDAGRASS MAY BE REPLACED WITH 5 lb/acre CENTIPEDEGRASS.

SEEDING DATES

APRIL 1 - JULY 15

SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000 lb/acre GROUND AGRICULTURE LIMESTONE AND 500 lb/acre 10-10-10 FERTILIZER.

MULCH

APPLY 4,000 lb/acre GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKLING WITH ASPHALT, ROVING, OR NETTING 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 THE FOLLOWING APRIL WITH 50 lb/acre NITROGEN. REPEAT AS GROWTH REQUIRES. MAY BE MOWED ONLY ONCE. WHERE A NEAT APPEARANCE IS DESIRED, OMIT SERICIA AND MOW AS OFTEN AS NEEDED.

FALL-WINTER PERMANENT GRASSING DETAIL

SEEDING MIXTURE

SPECIES

- TALL FESCUE (BLEND OF TWO OR THREE IMPROVED VARIETIES)
- RYE (GRAIN)

RATE (lb/acre)

- 200
- 25

SEEDING DATES

JANUARY - APRIL
AUGUST - DECEMBER

SOIL AMENDMENTS

APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 3,000-5,000 lb/acre GROUND AGRICULTURE LIMESTONE (USE THE LOWER RATE ON SANDY SOILS) AND 1,000 lb/acre 10-10-10 FERTILIZER.

MULCH

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

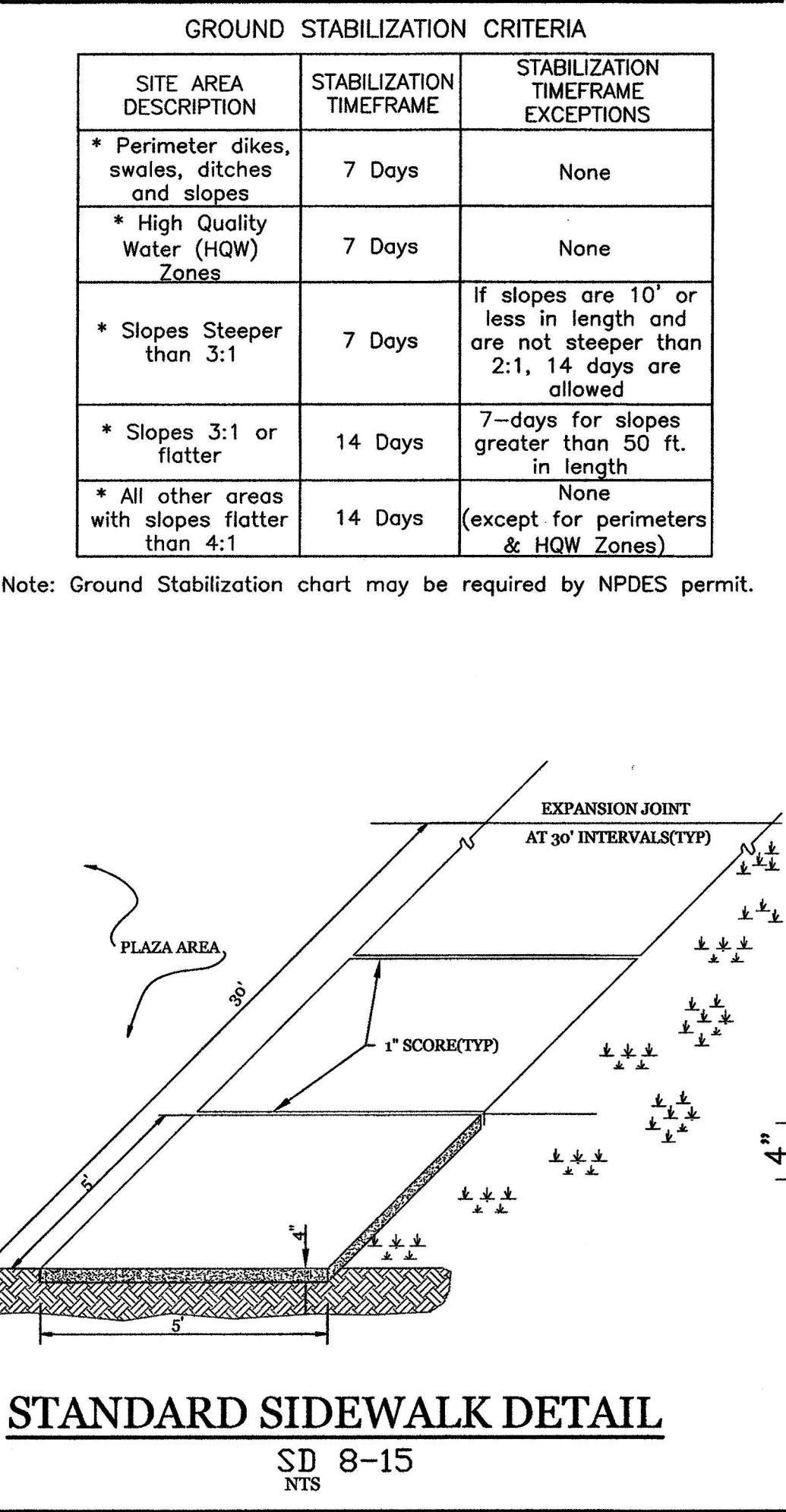
MAINTENANCE

FERTILIZE ACCORDING TO SOIL TESTS OR APPLY 40 lb/acre NITROGEN IN JANUARY OR FEBRUARY, 40 LB IN SEPTEMBER AND 40 LB IN NOVEMBER, FROM A 12-4-8, 16-4-8, OR SIMILAR TURF FERTILIZER. AVOID FERTILIZER APPLICATIONS DURING WARM WEATHER, AS THIS INCREASES STAND LOSSES TO DISEASE. RESEED, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY. MOW TO A HEIGHT OF 2-3-3 INCHES AS NEEDED.

GROUND STABILIZATION CRITERIA

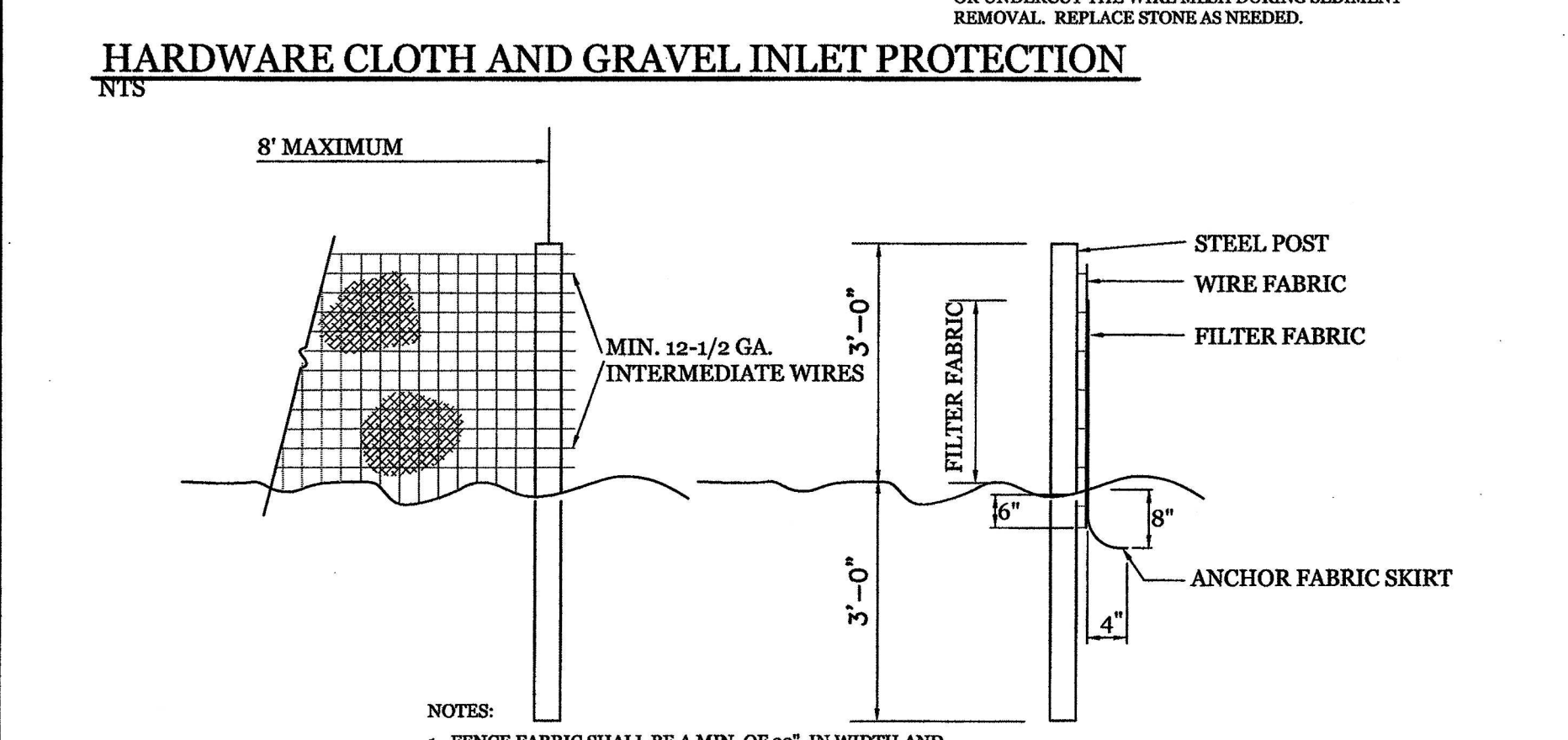
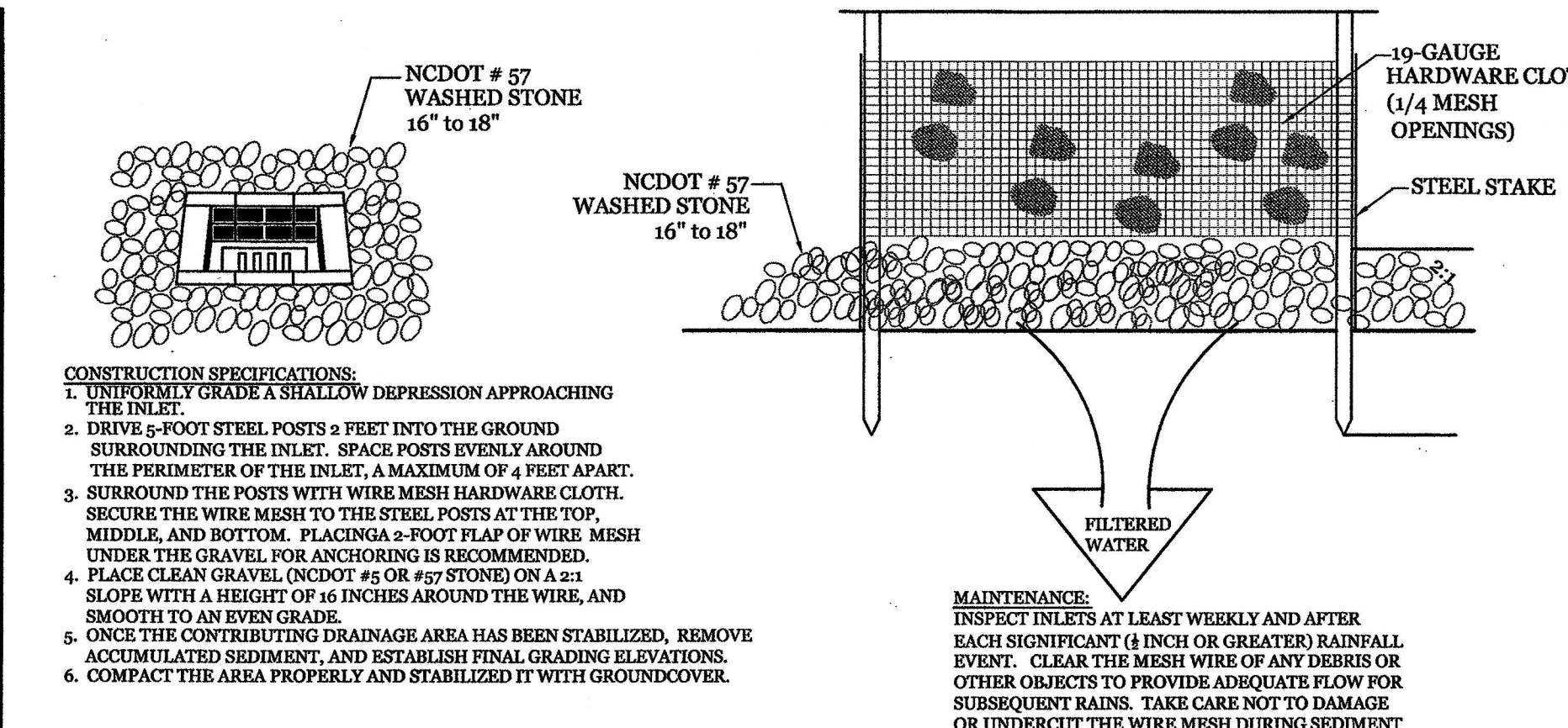
SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
* Perimeter dikes, swales, ditches and slopes	7 Days	None
* High Quality Water (HQW)	7 Days	None
* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
* Slopes 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length
* All other areas with slopes flatter than 4:1	14 Days	(except for perimeters & HQW Zones)

Note: Ground Stabilization chart may be required by NPDES permit.



STANDARD SIDEWALK DETAIL

SD 8-15
NTS

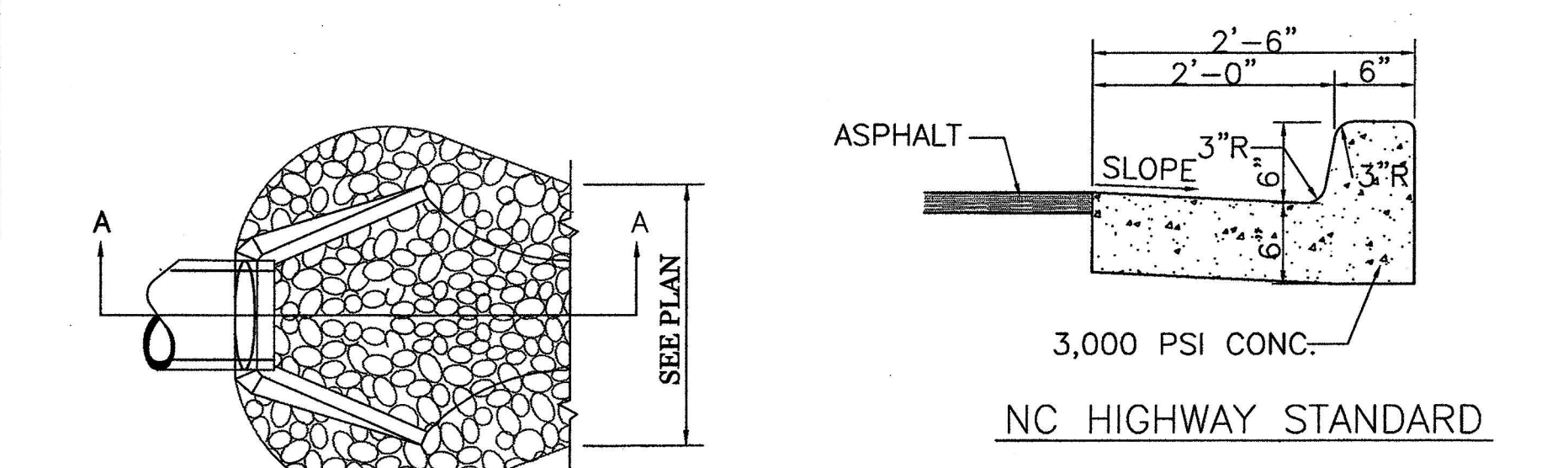


TEMPORARY SILT FENCE

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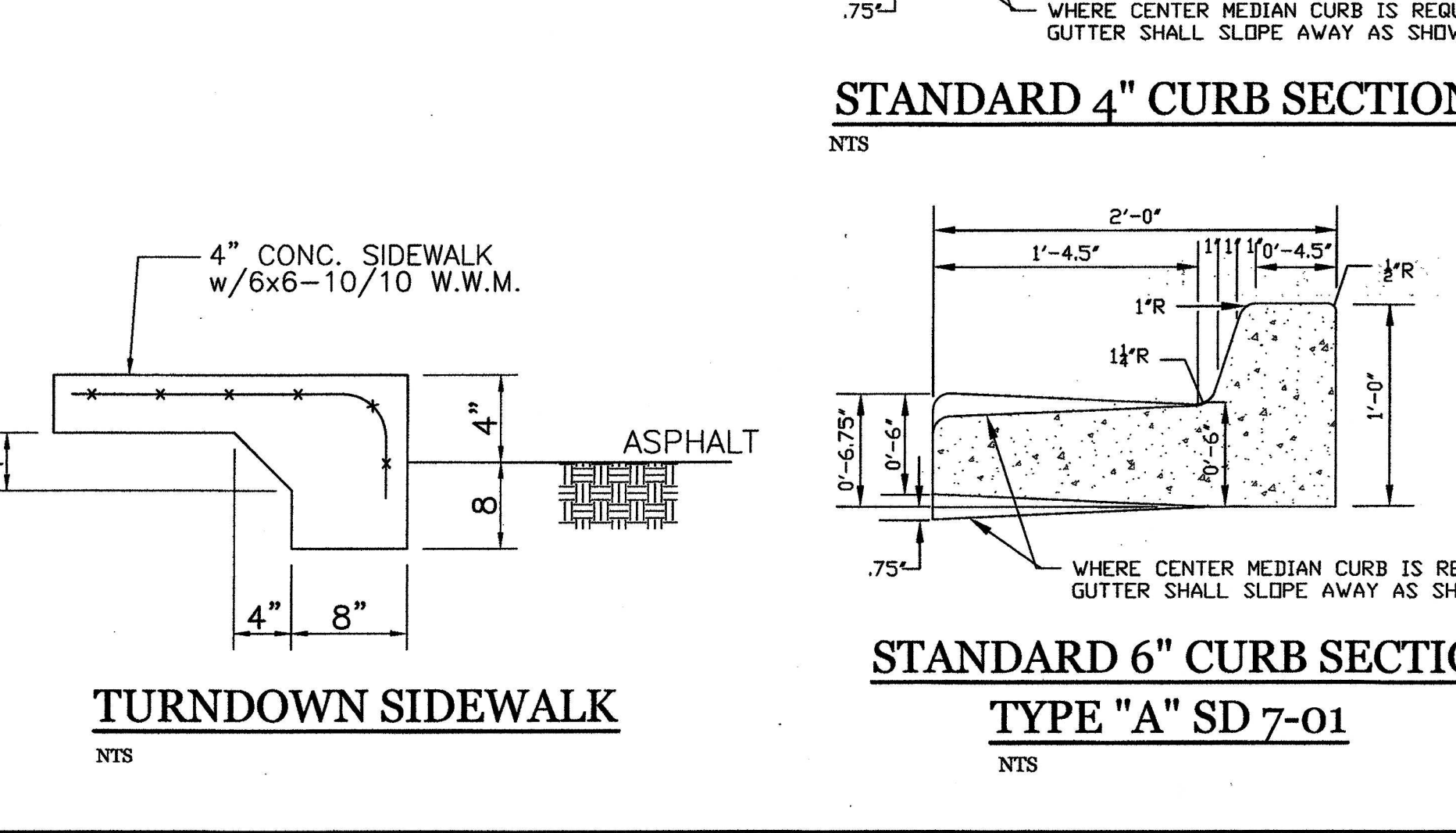
NOTES:

- FENCE FABRIC SHALL BE A MIN. OF 32" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" STAY SPACING.
- FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 36" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
- STEEL POST SHALL BE 5'-0" IN HEIGHT AND BE OF THE SELF-FASTENER STEEL ANGLE TYPE.



ENERGY DISSIPATOR

NTS



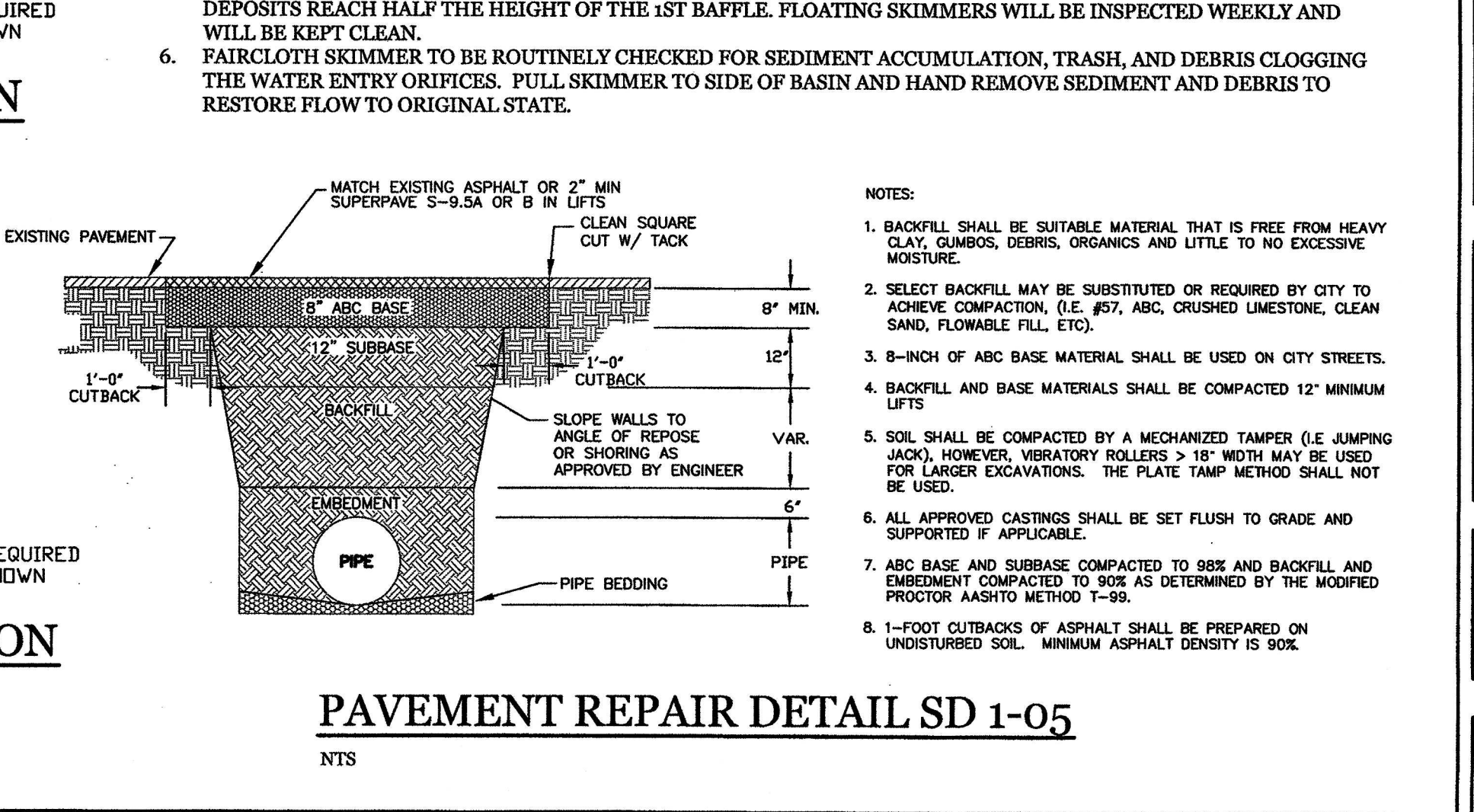
TURNDOWN SIDEWALK

NTS

- SITE WORK NOTES:**
- THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE.
 - CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.
 - GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.
 - MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.
 - DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.
 - FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.
 - THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.
 - THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.
 - INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.
 - NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED. CALL "NO ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING CONSTRUCTION.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS OR ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE PERSONNEL.
 - CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - EXISTING SURVEYING PERFORMED BY MICHAEL UNDERWOOD AND ASSOCIATES, PA AND PROVIDED BY THE OWNER.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES OR QUESTIONS TO THE ENGINEER PRIOR TO INSTALLATION.
 - THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.
 - ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CPDUA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.
 - ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY.
 - EXISTING SURVEYING PERFORMED BY MICHAEL UNDERWOOD AND ASSOCIATES, PA AND PROVIDED BY THE OWNER.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.
 - CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.
 - FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY THE CONTRACTOR.
 - ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY.
 - ALL FEDERAL, STATE AND LOCAL PERMITS ARE REQUIRED PRIOR TO FULL CONSTRUCTION RELEASE. THIS INCLUDES, BUT IS NOT LIMITED TO, STATE STORMWATER, STATE UTILITY EXTENSION PERMITS, WETLAND DISTURBANCE PERMITS, CITY STORM WATER, TREE PROTECTION PERMITS, ETC.
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

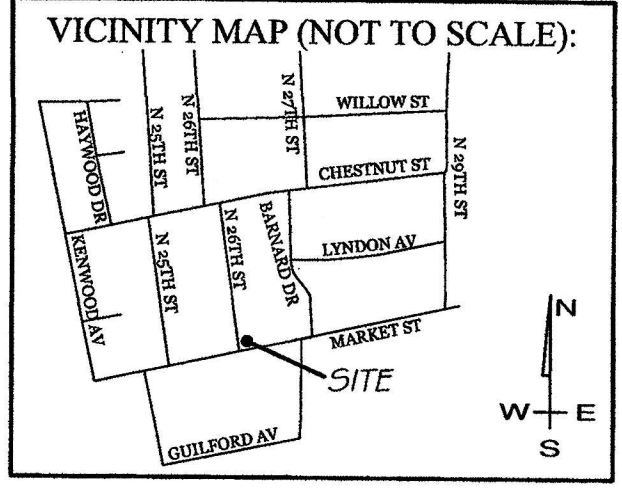
- CONSTRUCTION SEQUENCE:**
- CONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE, TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. ALL SLOPED AREAS SHOULD BE SEEDED BY ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 21 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITHIN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.
- GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAVE BEEN INSTALLED.
 - NO CUT SLOPE OR HILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).
 - NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION.
 - INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. SPECIFIC CONSTRUCTION METHODS MAY BE REQUIRED ABOVE AND BEYOND WHAT IS SPECIFIED IN THIS PLAN. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.
 - ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL.
 - A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.
 - MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.
 - MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT COMPLETION.

- MAINTENANCE PLAN**
- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.
 - ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 1/2 INCH STONE TO MAINTAIN PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.
 - SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION. ROCK DOUGHTNUT INLET PROTECTION AND ROCK PIPE INLET PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND SEDIMENT BASINS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT.
 - SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE SEDIMENT FENCE THE ROCK WILL BE REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.
 - SEDIMENT WILL BE REMOVED FROM THE SEDIMENT BASIN WHEN THE DESIGN STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER DRAINS OR IF THE ROCK IS DISLOADED. BAFFLES WILL BE REPAIRED OR REPLACED IF THEY COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE. THEY WILL BE REPLACED PROMPTLY. SEDIMENT WILL BE REMOVED FROM BAFFLES WHEN DEPOSITS REACH HALF THE HEIGHT OF THE 1ST BAFFLE. FLOATING SKIMMERS WILL BE INSPECTED WEEKLY AND WILL BE KEPT CLEAN.
 - FAIRCLOTH SKIMMER TO BE ROUTINELY CHECKED FOR SEDIMENT ACCUMULATION, TRASH, AND DEBRIS CLOGGING THE WATER ENTRY ORIFICES. PULL SKIMMER TO SIDE OF BASIN AND HAND REMOVE SEDIMENT AND DEBRIS TO RESTORE FLOW TO ORIGINAL STATE.



PAVEMENT REPAIR DETAIL SD 1-05

NTS



REVISIONS

NO.	DATE	DESCRIPTION

INTRACOASTAL ENGINEERING, PLLC

91 Pelican Point Road
Wilmington, North Carolina 28409
Phone: 910.409.3567
Email: charlie@intracoastalengineering.com
License Number P-0662

DETAILS FOR FOREST HILLS VETERINARY HOSPITAL WILMINGTON, NORTH CAROLINA

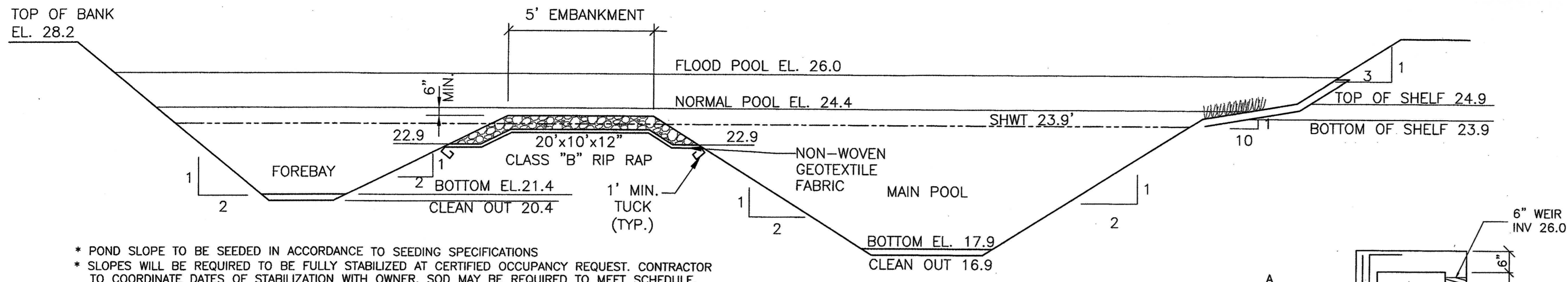
CHARLES D. CALKER
REGISTERED PROFESSIONAL ENGINEER
032555
1-23-15

CLIENT INFORMATION:

PAUL M. GIGLIOTTI, D.V.M.
8 NORTH 26TH STREET
WILMINGTON, NC 28405
910-362-9955

DRAWN: GCD SHEET SIZE: 24 x 36
CHECKED: CDC DATE: 1/23/15
APPROVED: CDC SCALE: NTS
PROJECT NUMBER: 2014-025

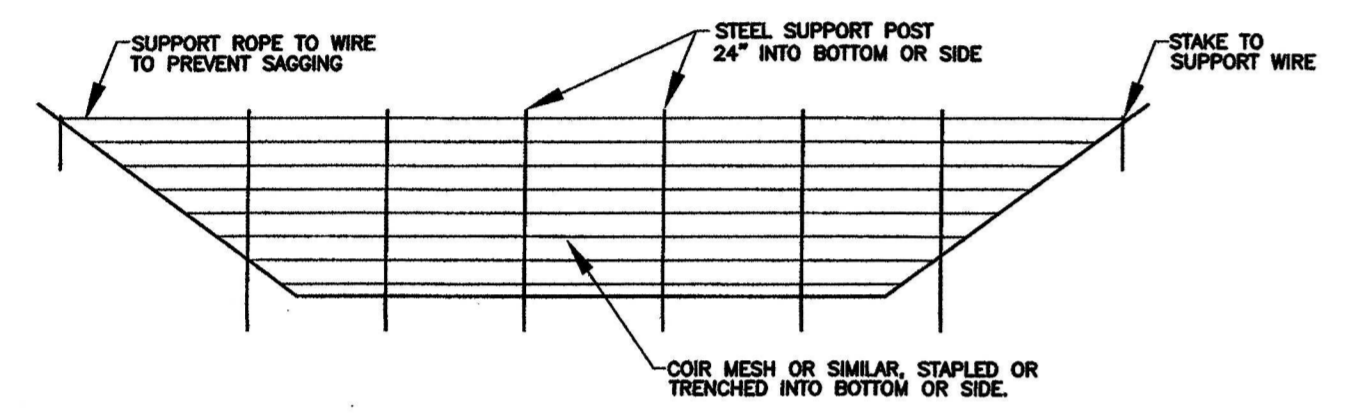
DRAWING NUMBER: **C-2**



- * POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
- * SLOPES WILL BE REQUIRED TO BE FULLY STABILIZED AT CERTIFIED OCCUPANCY REQUEST. CONTRACTOR TO COORDINATE DATES OF STABILIZATION WITH OWNER. SOD MAY BE REQUIRED TO MEET SCHEDULE.
- * 10:1 VEGETATED SHELF TO BE PLANTED WITH WETLAND SPECIES:
 BOTTOM HALF OF SHELF: SOFTSTEM BULRUSH, BROADLEAF ARROWHEAD, PICKEREL WEED.
 TOP HALF OF SHELF: SWAMP MILKWEED, JOE PYE WEED, CARDINAL FLOWER.
 EITHER HALF OF SHELF: COMMON RUSH, WOOLGRASS
- * VEGETATED SHELF SHALL BE PLANTED WITH PLUGS OR POTS AT 24" O.C. IN A CHECKERBOARD PATTERN.
- * ALL LANDSCAPE MATERIAL SHOULD BE PLANTED IN GOOD TOPSOIL. IN-SITU SOIL MAY BE USED IF TILLED WITH 4" OF TOPSOIL.
- * A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES

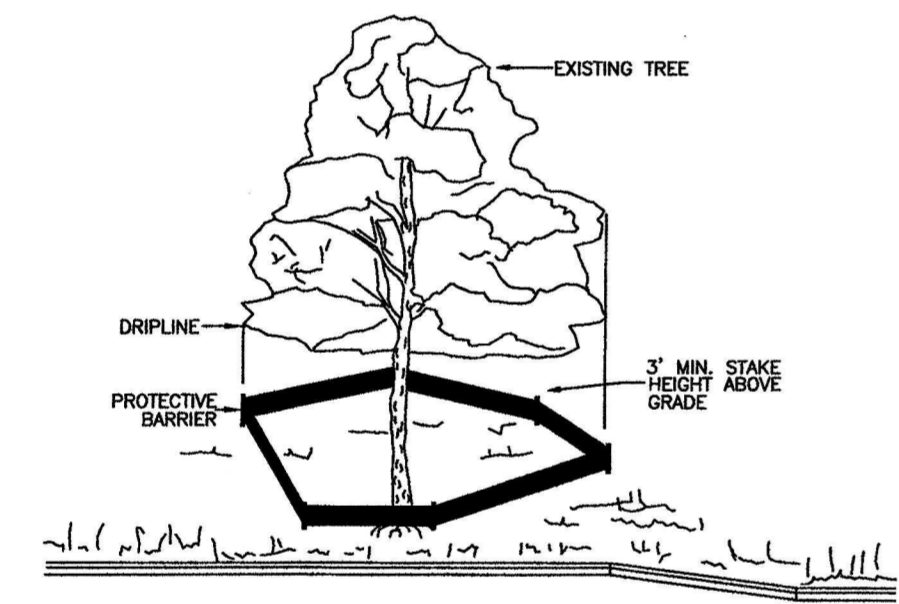
DETENTION POND & FOREBAY SECTION

NTS



POROUS BAFFLE CROSS SECTION

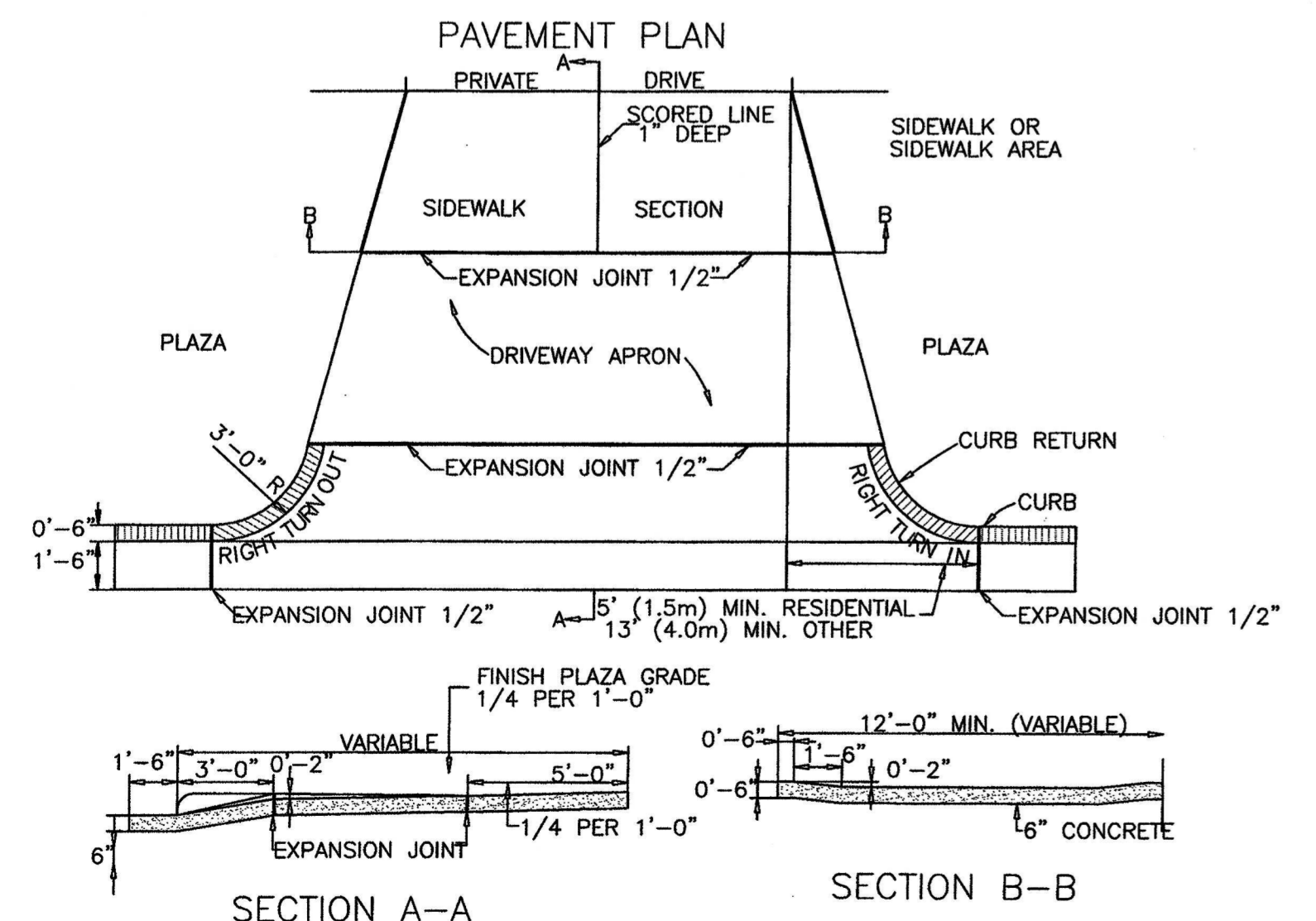
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TREE PROTECTION DURING CONSTRUCTION

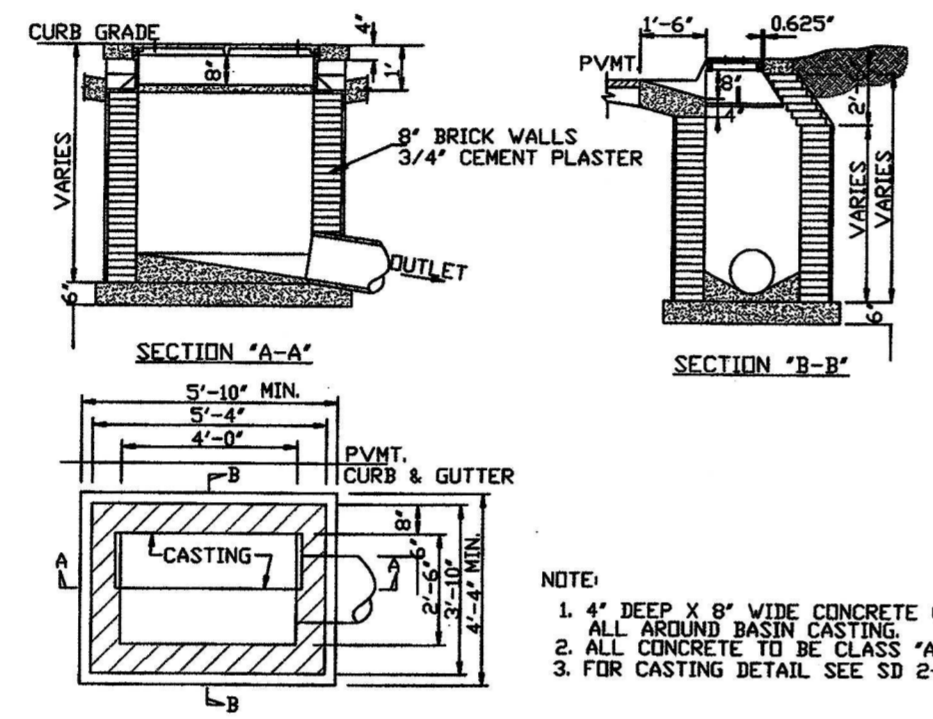
SD 15-08

NTS



STANDARD DRIVEWAY DETAIL SD 8-02

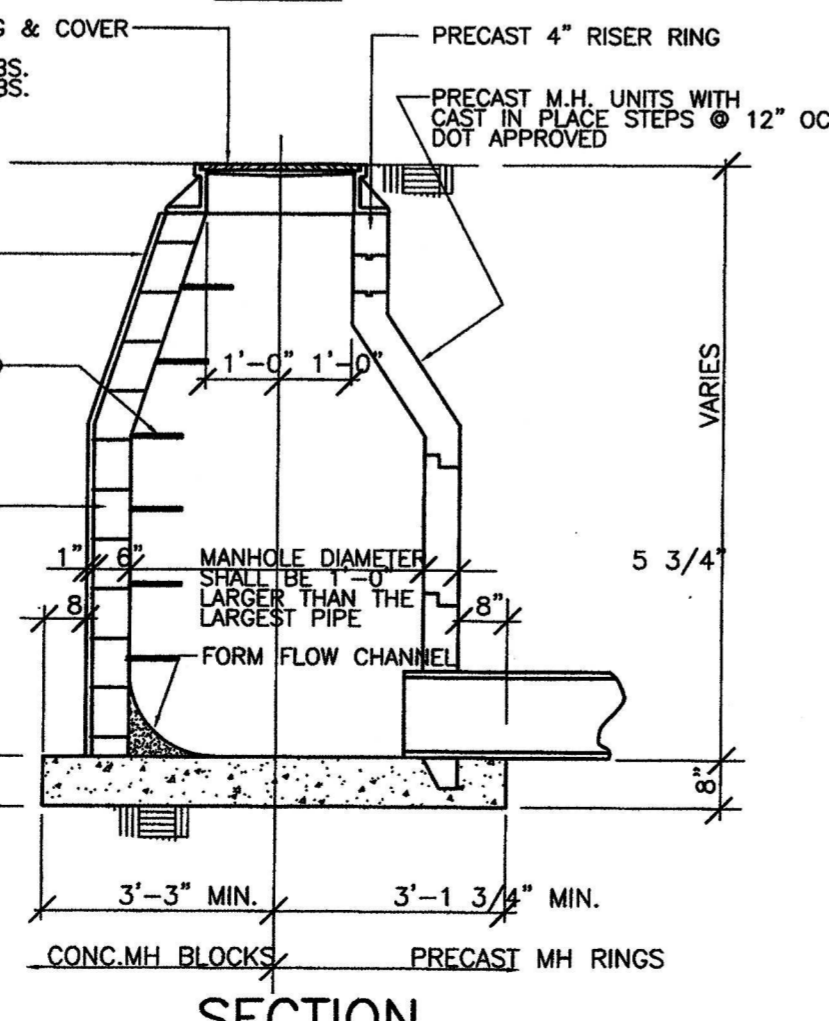
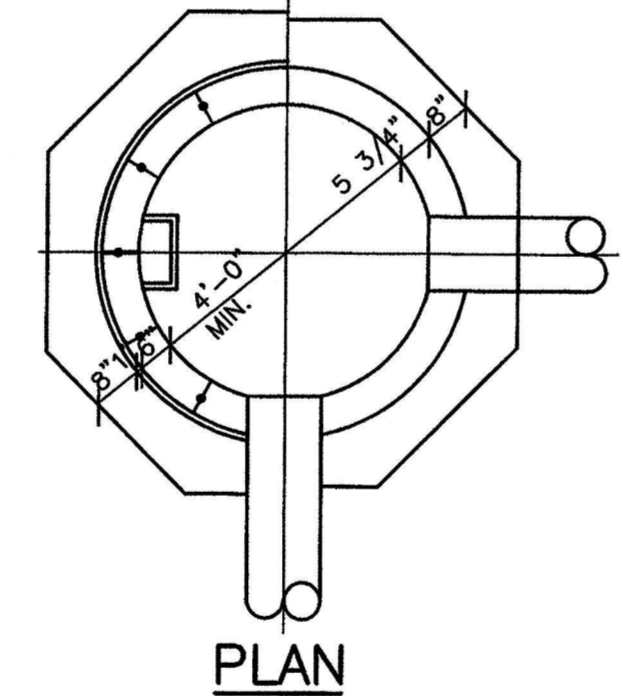
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CATCH BASIN

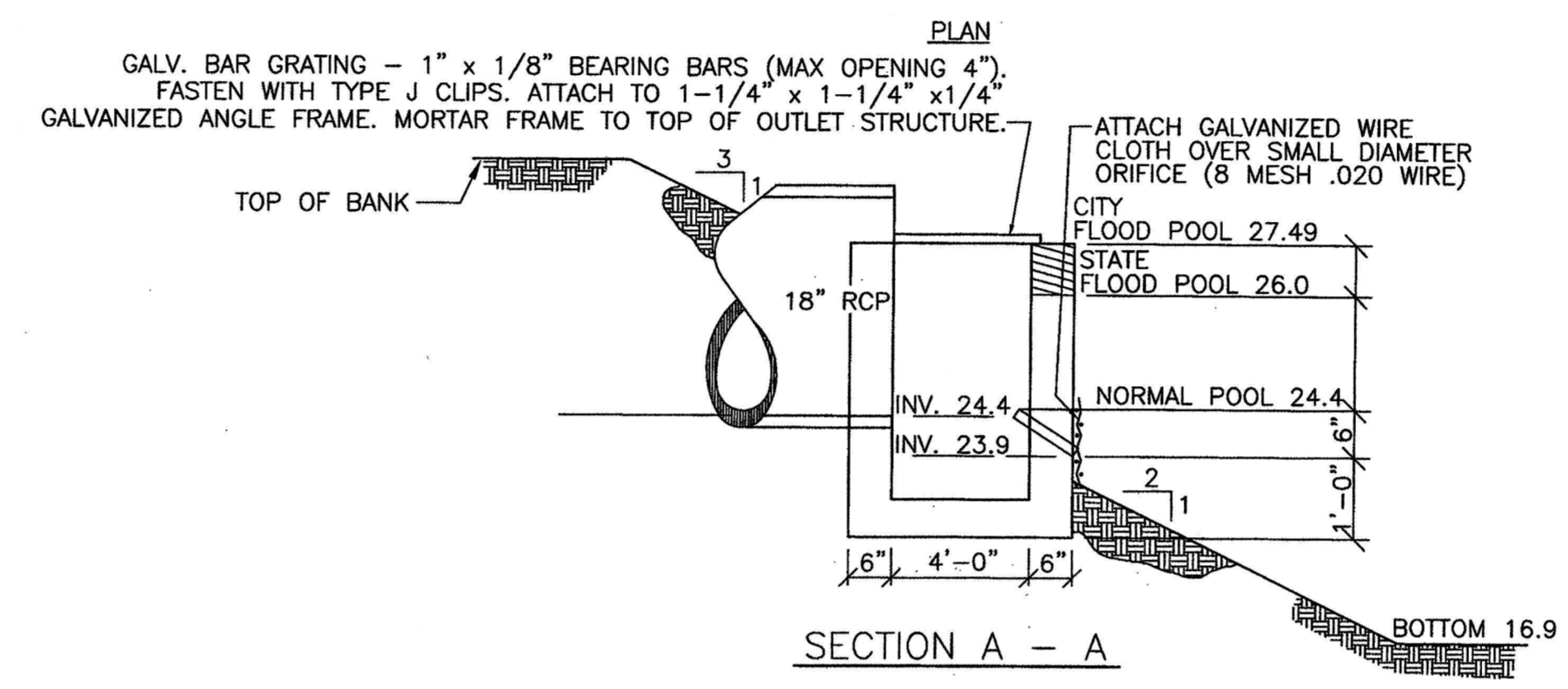
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- NOTE:
- 1. CONTRACTOR MAY USE BRICK WITH MAX. CORBEL 1" PER COURSE
- 2. CONTRACTOR MAY USE ECCENTRIC M.H. UNIT



STORMDRAIN MANHOLE DETAIL

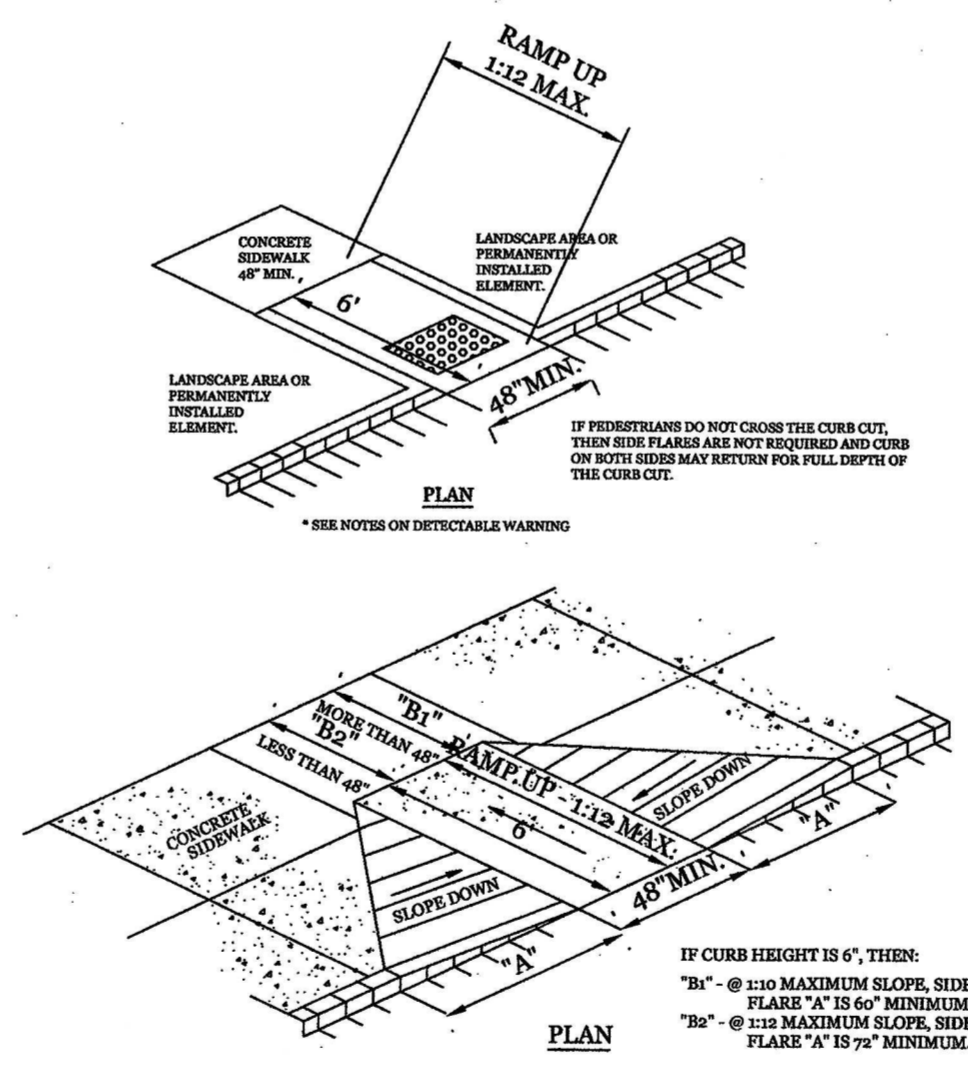
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DETENTION POND OUTLET STRUCTURE

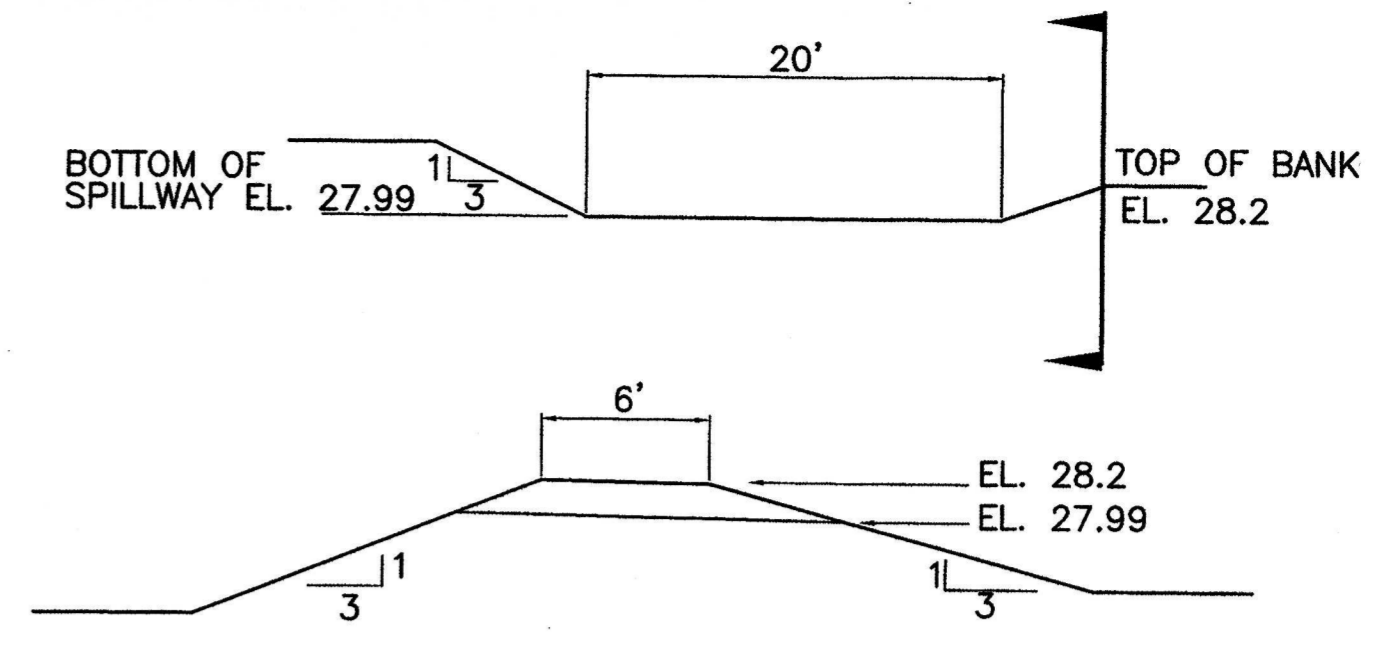
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NOTE: 6" WEIR TO BE CUT AT TIME OF SKIMMER REMOVAL.



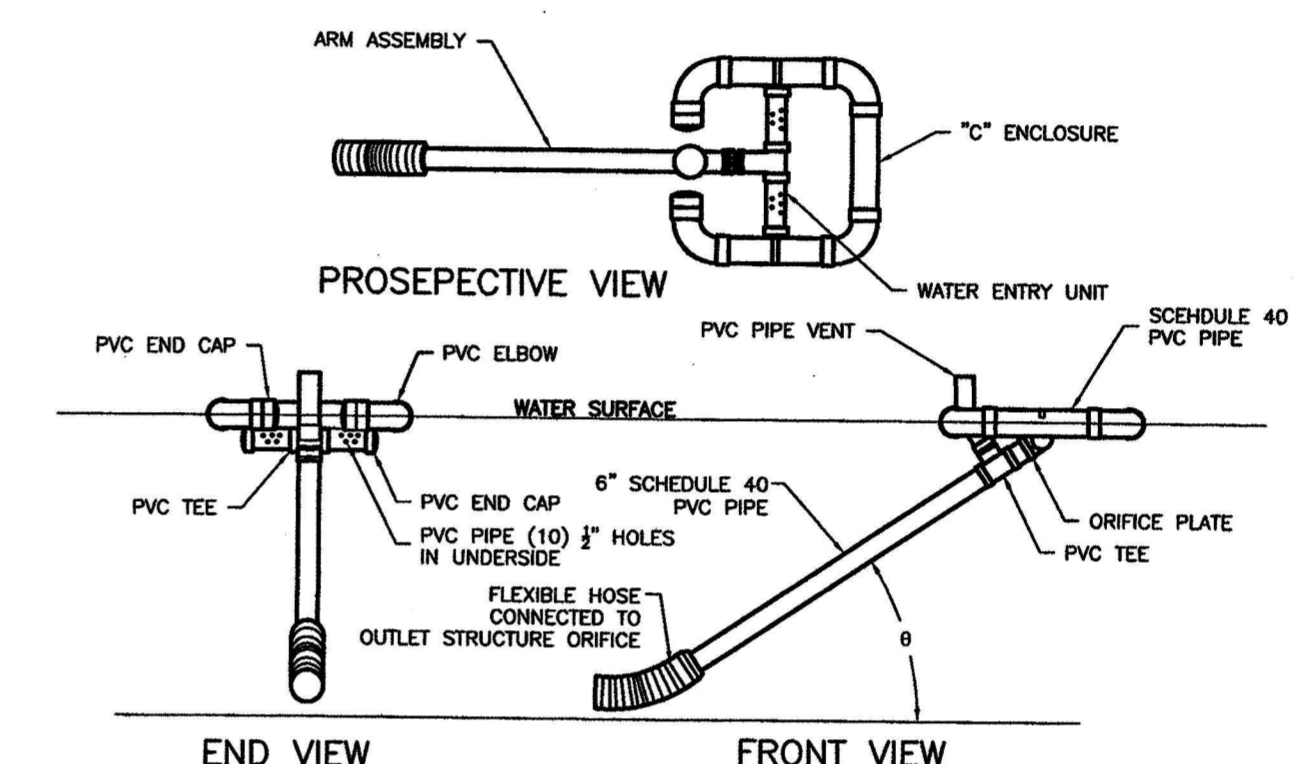
TYPICAL SIDEWALK AND WHEEL CHAIR RAMP DETAIL

NTS



EMERGENCY SPILLWAY DETAIL

NTS



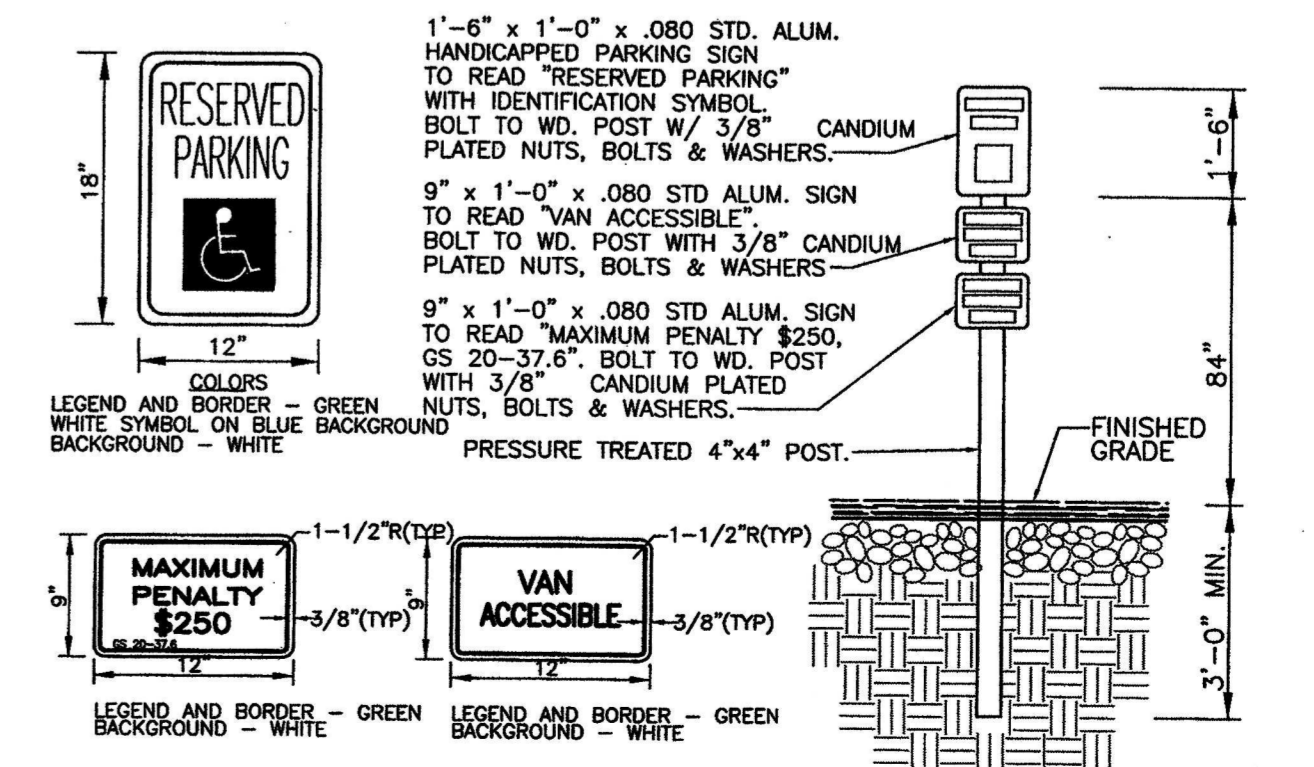
FAIRCLOTH SKIMMER DETAIL

NTS

NOTE: PAVEMENT SECTION MAY VARY DEPENDING UPON FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE W/ OWNER & GEOTECHNICAL ENGINEER TO DETERMINE ACTUAL PAVEMENT SECTION.

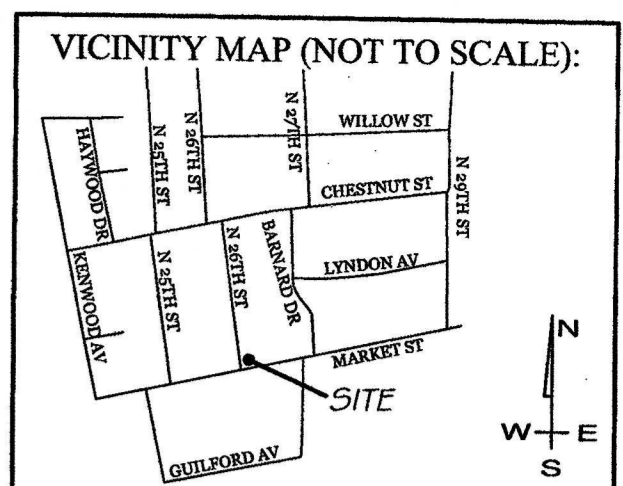
LIGHT DUTY PAVEMENT SECTION

NTS



TYPICAL HANDICAPPED SIGN DETAIL

NTS



REVISIONS

INTRACOASTAL ENGINEERING, PLLC
 91 Pelican Point Road
 Wilmington, North Carolina 28409
 Phone: 910.409.3567
 Email: Charlie@intracoastalengineering.com
 License Number P-0662

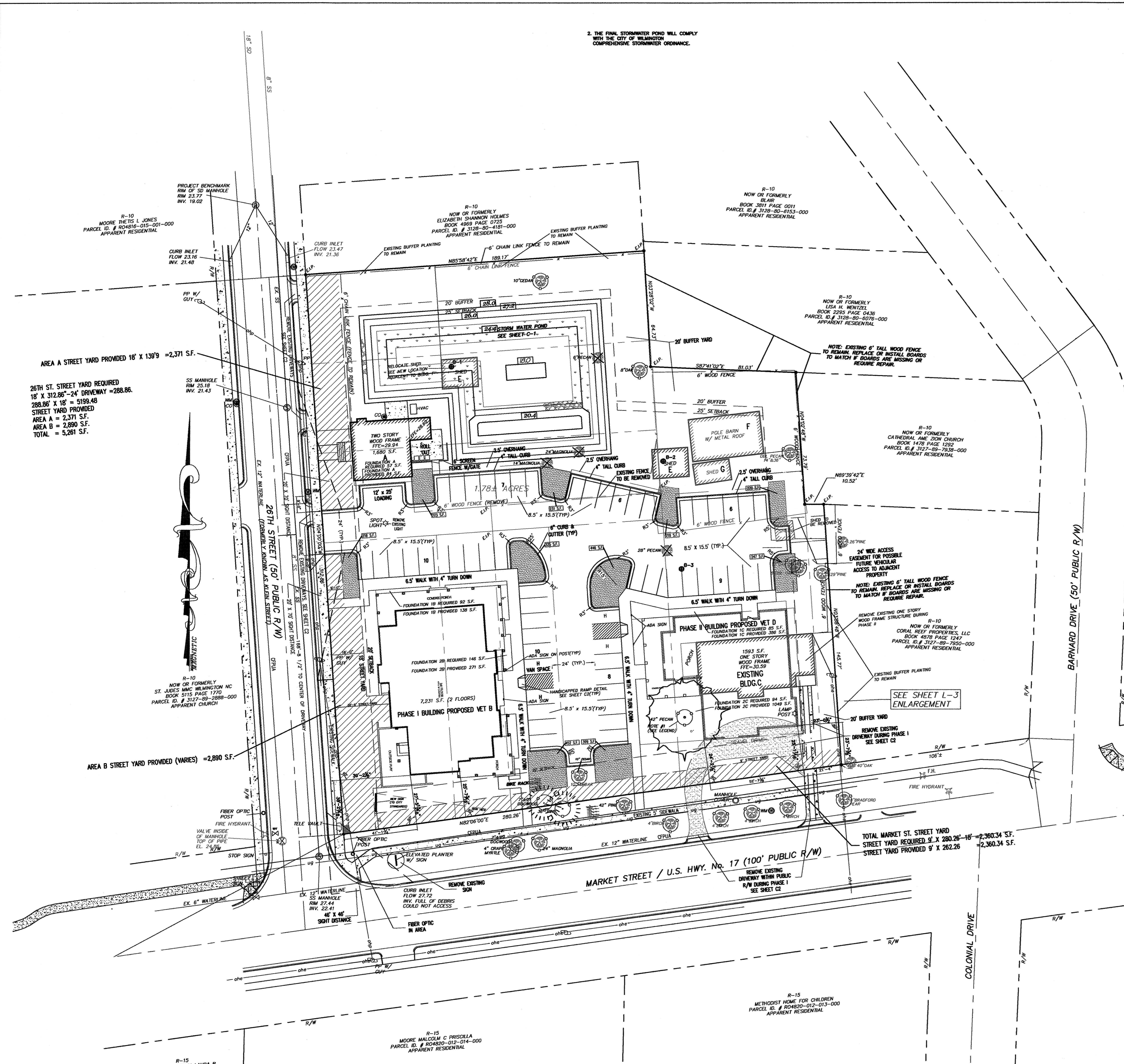
DETAILS FOR FOREST HILLS VETERINARY HOSPITAL
 WILMINGTON, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL
 032555
 ENGINEER
 CHARLES D. CARTER

CLIENT INFORMATION:
 PAUL M. GIGLIOTTI, D.V.M.
 8 NORTH 26TH STREET
 WILMINGTON, NC 28405
 910-362-9955

DRAWN:	GCD	SHEET SIZE:	24 x 36
CHECKED:	CDC	DATE:	1/23/15
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2014-025		

DRAWING NUMBER: **C-3**
 3 OF 5



SITE DATA

ADDRESS FOR SITE: 4 NORTH 26TH STREET (BLDG. B)

PIN NUMBERS: R04820-005-001-000, R04820-005-004-000, R04820-005-003-000, R04820-005-002-000

EXISTING ZONING: R-10, 26TH ST. R/W R-10, MARKET ST. R/W R-15
 PROPOSED ZONING: O & I-1(CD) FOR SITE AND 26TH ST. & MARKET ST. R/W ADJACENT TO SITE

CAMA LAND CLASSIFICATION: URBAN

BUILDING SETBACKS REQUIRED

FRONT: 20'
 SIDE: 20'
 REAR: 25'

BUILDING B SETBACKS PROPOSED (VET) (7,231 S.F. VET)

FRONT: 27' 5-13/16", 25' 7-13/16"
 SIDE: 39' 2-1/8"

BUILDING D SETBACKS PROPOSED (NEW VET) (5,200 S.F. VET)

FRONT: 24' 2-7/8", 25' 1-7/16"
 SIDE: 23' 1/2"

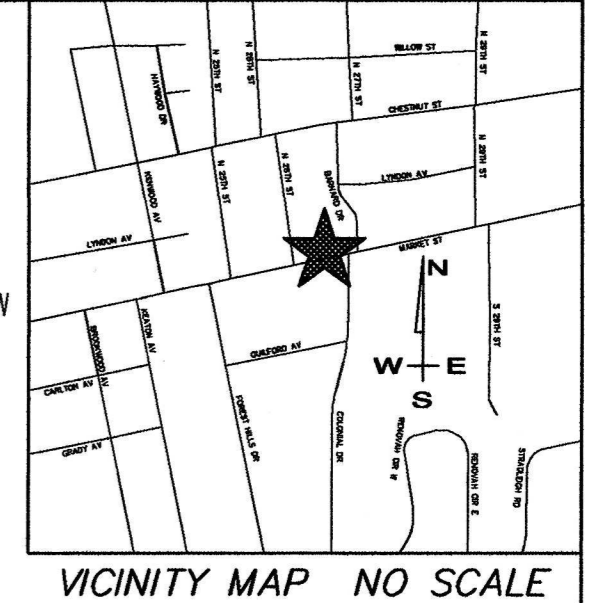
BUFFER YARD

REAR: 20'
 SIDE: 20'

STREET YARD

FRONT (26TH ST.): 18'
 CORNER (MARKET ST.): 9'

TOTAL ACREAGE IN PROJECT BOUNDARY: 77,733 S.F. (1.78 AC.)



REVISIONS	DATE
TRC COMMENTS	11/22/10
REVISED PARKING LAYOUT	1/15/13
ADDED NOTES: 4' & 6" CURB/GUTTER	1/15/13
REVISE NOTES	6/25/13
REVISED TRC COMMENTS	12/18/14

BUILDING SIZE IN SQUARE FEET

EXISTING VET BUILDING "A": 1,209 S.F. FOOTPRINT
 PROPOSED VET BUILDING "B": 5,131 S.F. FOOTPRINT
 EXISTING HOUSE (PHASE I) "C": 1,593 S.F. FOOTPRINT (PHASE I USE PROFESSIONAL OFFICE/VET USE)
 PROPOSED VET BUILDING "D" (PHASE II): 5,200 S.F. FOOTPRINT (BLDG. C DEMOLISHED OR MOVED FOR PHASE II)
 SHED "E": 325 S.F. FOOTPRINT (RELOCATED TO ACCOMMODATE POND)
 SHED BARN "F": 939 S.F. FOOTPRINT STORAGE
 SHED "G": 236 S.F. FOOTPRINT STORAGE

CALCULATION FOR BUILDING COVERAGE

EXISTING COVERAGE (ALL BUILDINGS): 4,300 S.F. ÷ 77,733 S.F. = 5.5%
 PROPOSED COVERAGE (ALL BUILDINGS): 13,040 S.F. ÷ 77,733 S.F. = 16.78 %

NUMBER OF BUILDINGS: 6

BUILDING HEIGHT

EXISTING BLDG. A: 25' (ESTIMATED)
 PROPOSED VET B: 21' 2"
 PROPOSED OFFICE D: 19' 4"

NUMBER OF STORIES & SQ.FT. PER FLOOR

EXISTING BLDG. A (2 STORY)	1ST 1,209 S.F.	2ND 471 S.F.	TOTAL 1,680 S.F.
PROPOSED VET B (2 STORY)	1ST 5,101 S.F.	2ND 2,130 S.F.	TOTAL 7,231 S.F.
PROPOSED VET D (1 STORY)	1ST 5,200 S.F.		TOTAL 5,200 S.F.

TOTAL IMPERVIOUS BEFORE & AFTER DEVELOPMENT

BEFORE DEVELOPMENT

BLDG. A	1,209 S.F.
BLDG. C	1,593 S.F.
SHED E	325 S.F.
POLE BARN F	935 S.F.
SHED G	240 S.F.
SIDEWALKS	551 S.F.
PORCH	276 S.F.
GRAVEL DRIVE/DRIVEWAY	1,527 S.F.
TOTAL	6,656 S.F. + 77,733 S.F. = 8.5%

AFTER DEVELOPMENT

BLDG. A	1,209 S.F.
PROPOSED VET B	5,131 S.F.
PROPOSED OFFICE D	5,200 S.F.
SHED E	325 S.F.
POLE BARN F	935 S.F.
SHED G	240 S.F.
SIDEWALKS	3,782 S.F.
PORCHES	1,700 S.F.
PARKING	17,813 S.F.
TOTAL	36,335 S.F. + 77,733 S.F. = 46.7%

HICA

Howard T. Capps & Associates, Inc.
 Land Planning Landscape Architecture
 201 N. Front Street, Suite 612
 Wilmington, NC 28405
 Phone: (910) 765-7708

Forest Hills Veterinary Hospital
 4 & 8 North 26th Street/2611 Market Street
 Wilmington, North Carolina

WATER AND SEWER CAPACITY NEEDS

- WATER 250 GPD (CURRENT USE)
- WATER 1,250 GPD (PROPOSED USE)
- SEWER 250 GPD (CURRENT USE)
- SEWER 1,250 GPD (PROPOSED USE)

PARKING REQUIREMENT

VETERINARY USE MAX. 1 PER 170 G.S.F./ MIN. 1 PER 250 G.S.F.
 PROFESSIONAL OFFICE MAX. 1 PER 200 G.S.F./ MIN. 1 PER 300 G.S.F.

PARKING REQUIRED

BLDG. A VETERINARY USE (1,680 S.F.+250 G.S.F.) = 7 SPACES
 BLDG. B VETERINARY USE (7,231 S.F.+250 G.S.F.) = 29 SPACES
 BLDG. D PROFESSIONAL USE OR VET (5,200 S.F.+300 G.S.F.) = 17 SPACES

TOTAL PARKING REQUIRED: 53 SPACES

PARKING PROVIDED

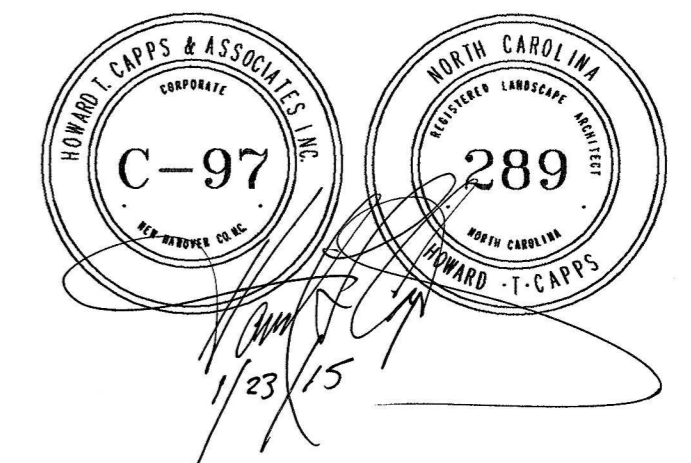
BLDG. A: 7 SPACES
 BLDG. B: 31 SPACES
 BLDG. D: 18 SPACES

TOTAL PARKING PROVIDED: 56 SPACES

ADA PARKING REQUIRED (51 TO 75 SPACES): 3 ADA SPACES
 ADA PARKING PROVIDED: 4 ADA SPACES

REQUIRED PARKING LOT SHADING

REQUIRED 17,813 @ 20% = 3,562 S.F.
 PROVIDED = 6,284 S.F. (SEE LANDSCAPE PLAN)



NOTES:

ALL CURB & GUTTER AROUND LANDSCAPED ISLANDS TO BE 6" CURB
 ALL CURB & GUTTER ALONG PARKING BACKS SHALL HAVE 4" TALL CURB

PROPERTY OWNER: PAUL & JULI GIGLIOTTI D.V.M., 8 NORTH 26TH STREET, WILMINGTON, N.C. 28405

LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN
- NOTE #1 ARBORIST TO DETERMINE CONDITION OF TREE & MAKE RECOMMENDATION ON SAVING OR REMOVAL BASED ON TRC COMMENT

PROJECT PHASING

PHASE I - PHASE I WILL INCLUDE BUILDINGS A,B,C AND ALL PARKING. THE REQUIRED STORM WATER POND WILL ALSO BE BUILT IN PHASE I. THE EXISTING RESIDENTIAL STRUCTURE WILL BE LEASED AS A SMALL PROFESSIONAL OFFICE OR WILL BE USED AS VET BUILDING UNTIL PHASE II TAKES PLACE. AT WHICH TIME BUILDING C WILL BE DEMOLISHED OR GIVEN AWAY FOR RELOCATION TO MAKE ROOM FOR CONSTRUCTION OF BUILDING D

PHASE II - BUILDING D WILL BE CONSTRUCTED WITHIN 3 YEARS OF CO BEING ISSUED ON CONSTRUCTION OF BUILDING B, NEW VET BUILDING. IF OWNER IS NOT ABLE TO MOVE FORWARD WITH CONSTRUCTION OF BUILDING D WITHIN THIS TIME FRAME THEY WILL BE ABLE TO REQUEST AN ADDITIONAL 3 YEAR EXTENSION TO CONSTRUCT BUILDING D.

Approved Construction Plan

Name	Date
Planning	
Public Utilities	
Traffic	
Fire	

STORMWATER MANAGEMENT PLAN

APPROVED

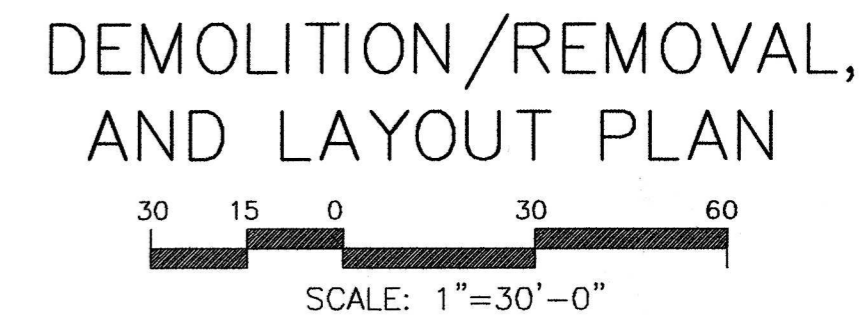
CITY OF WILMINGTON

ENGINEERING DEPARTMENT

DATE _____ PERMIT # _____

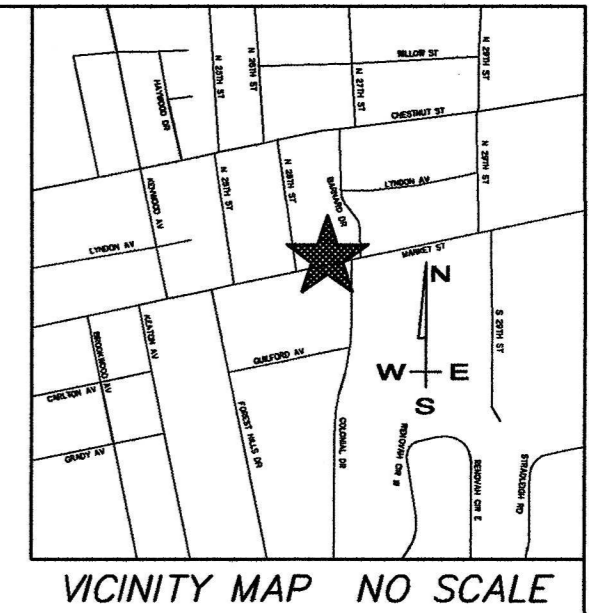
SIGNED _____

PROPERTY OWNER
 PAUL & JULI GIGLIOTTI D.V.M.
 8 NORTH 26TH STREET
 WILMINGTON, N.C. 28405

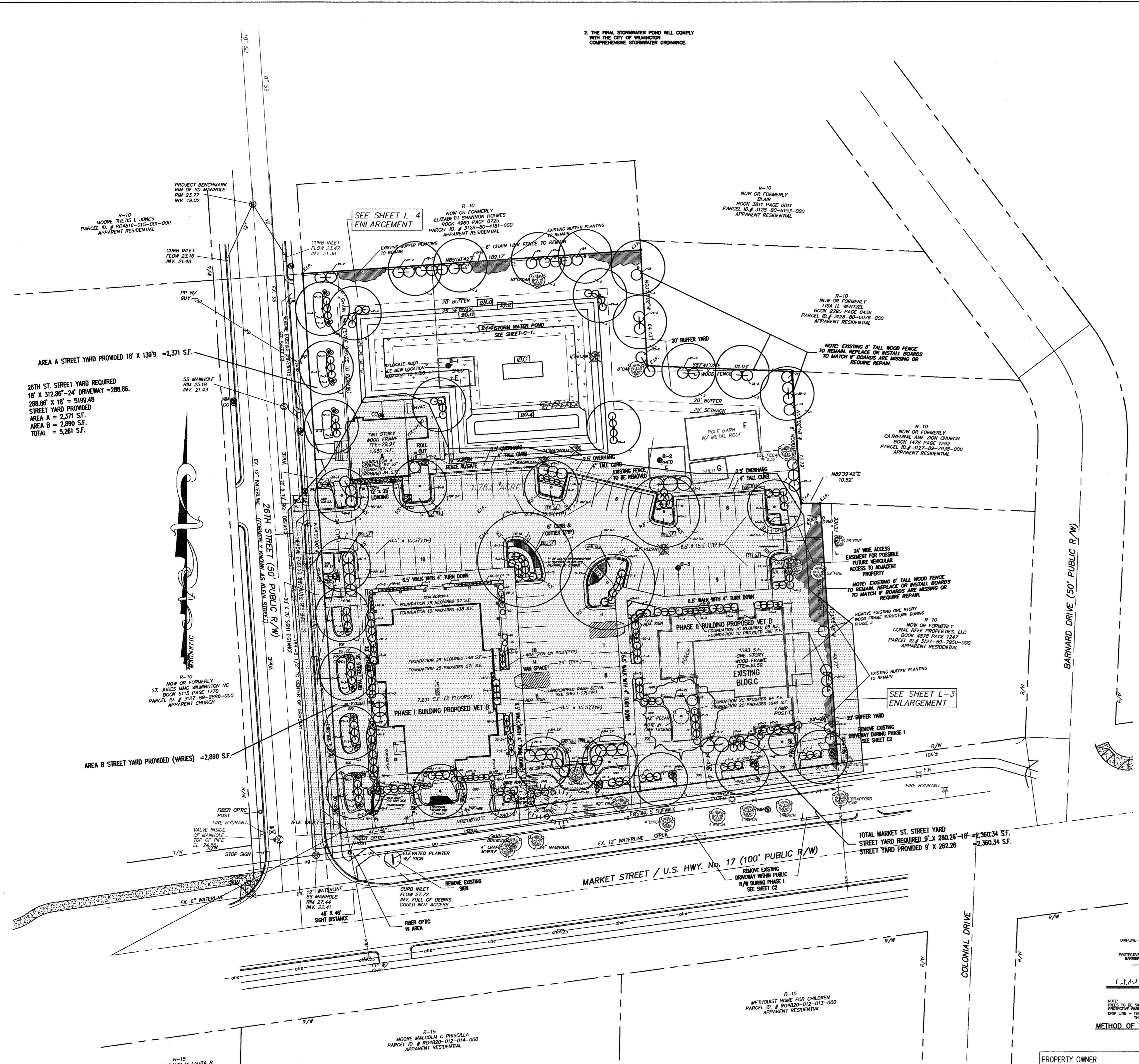


DESIGNED:	H. Capps	DRAWN:	R. Capps
DATE:	12-22-2014		
SCALE:	1"=30'		
JOB NO.:	401-00110		
SHEET	1		
	OF 4 SHEETS		

REVISIONS	DATE
TRC COMMENTS	11/22/10



2. THE FINAL STORMWATER POND WILL COMPLY WITH THE CITY OF WILMINGTON COMPREHENSIVE STORMWATER ORDINANCE.



KEY NO.	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	CAL.	HT.	REMARKS
1	1	QUERCUS VIRGINIANA	LIVE OAK	WB	3"	10'-12'	
2	1	LAGERSTROEMIA INDICA	CREPE MYRTLE	WB	2 1/2"-3"	8'-10'	VAR. MUSKOGEE
3	31	PRUNUS YEDOENSIS	YOSHINO CHERRY	WB	2 1/2"-3"	10'-12'	
4	2	ZELKOVA SERRATA	JAPANESE ZELKOVA	WB	2 1/2"-3"	12'-14'	VILLAGE GREEN
5	191	OPHIPOGON JAPONICUS	MONDO GRASS	1 GAL.		1' O.C.	
6	10	NANDINA DOMESTICA	NANDINA	3 GAL.		3' O.C.	
7	158	ILEX VOMITORIA NANA	DWARF YAUPON	3 GAL.		4' O.C.	
8	130	JUNIPERUS DAURICA PARSONI	PARSONS JUNIPER	3 GAL.		5' O.C.	
9	3	PITTSOPORUM TOBIRA	PITTSOPORUM	10 GAL.		36" @ PLANTING	8' O.C.
10	13	PITTSOPORUM TOBIRA NANA	WHEELER'S DWARF	3 GAL.		3' O.C.	
11	3	JUNIPERUS CHINENSIS PFITZERIANA	PFITZER JUNIPER	5 GAL.		8' O.C.	
12	6	PHOTINIA FRASERI	FRASER PHOTINIA	5 GAL.		6' O.C.	
13	3	FORSYTHIA INTERMEDIA	BORDER FORSYTHIA	3 GAL.		8' O.C.	SPRING GLORY
14	41	HEMEROCALLIS HYBRIDA	DAYLILLY	3 GAL.		3' O.C.	STELLA D'ORE
15	20	HEMEROCALLIS HYBRIDA	DAYLILLY	3 GAL.		3' O.C.	HYPERION
16	5	CORTADERIA SELLOANA	PAMPAS GRASS	10 GAL.		36" @ PLANTING	6' O.C.
17	46	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL.		2' O.C.	
18	101	CALAMAGROSTIS BRACHYTRICHA	KOREAN FEATHER REED GRASS	3 GAL.		2' O.C.	
19	2	PANICUM VIRGATUM	CLOUD NINE TALL SWITCHGRASS	3 GAL.		3' O.C.	
20	26	PENNISETUM ALOPECUROIDES "CASSIAN"	DWARF FOUNTAIN GRASS	3 GAL.		3' O.C.	
21	8	PENNISETUM ALOPECUROIDES "FOXITROT"	GIANT FOUNTAIN GRASS	3 GAL.		3' O.C.	
22	3	PYRACANTHA KODZUMII	FORMOSA FIRE THORN	3 GAL.			ESPALIER ON FENCE
23	1	ROSA BANKSIAE	BANKS ROSE				LUTEA
24	18	OSMANTHUS X FORTUNEI	FORTUNE TEA OLIVE	10 GAL.		6' O.C.	
25	18	NERIUM OLEANDER	OLEANDER	7 GAL.		6' O.C.	PINK
26	17	AZALEA INDICA	INDIAN AZALEA	5 GAL.		36" @ PLANTING	FORMOSA 6' O.C.

LARGE SHADE TREES - KEY 1, 3 & 4
SMALL SHADE TREES - KEY 2
SHRUBS KEY 6 & 7, 9 - 13, 16 - 25
GROUND COVER KEY 5, 8, 14, & 15

NOTE: The key number refers to the Plant List. Where there is only one number, it is the key number and the quantity is one. Where there are two numbers connected by a dash, the first is the key number and the second is the quantity required for the planting bed indicated.

DATE = Ball and Pouch
WB = Wire Basket
CONT. = Container grown
All plant beds shall be covered in a minimum of 3" of premium chocolate mulch. (Sample & source to be provided to landscape architect for approval)

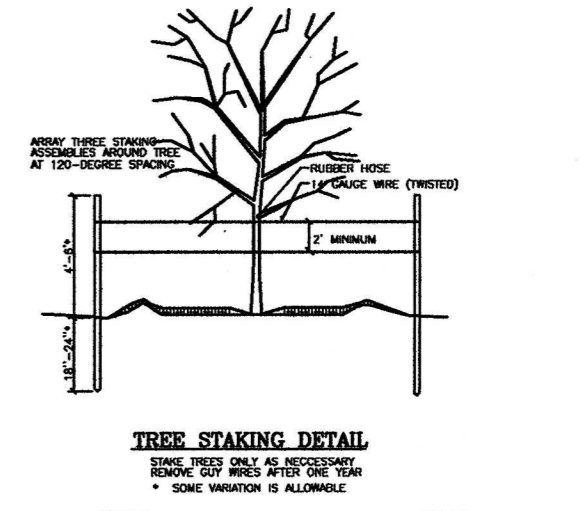
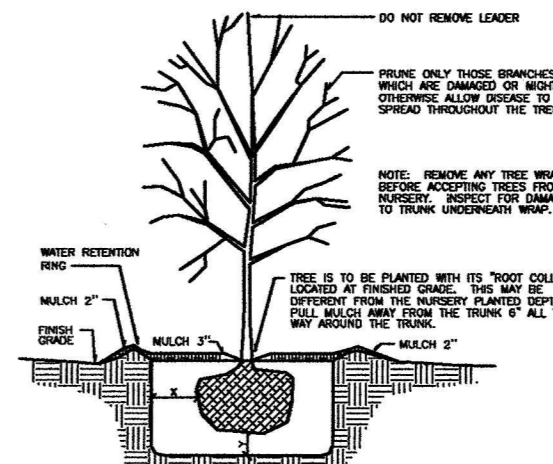
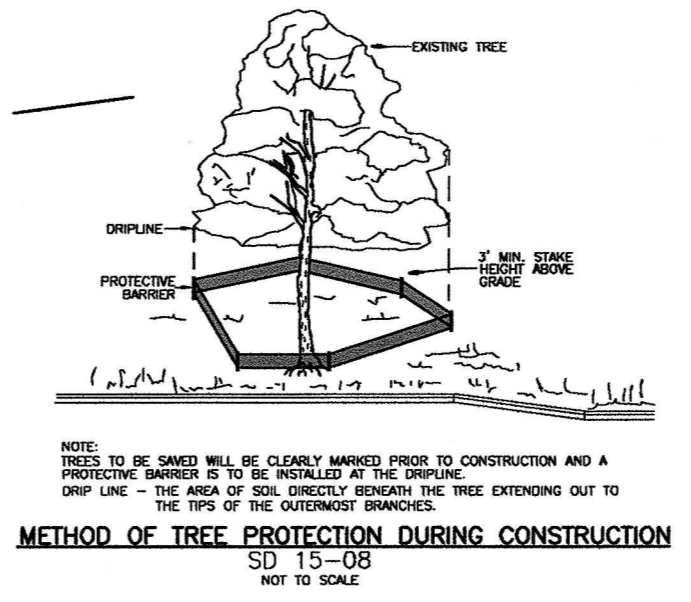
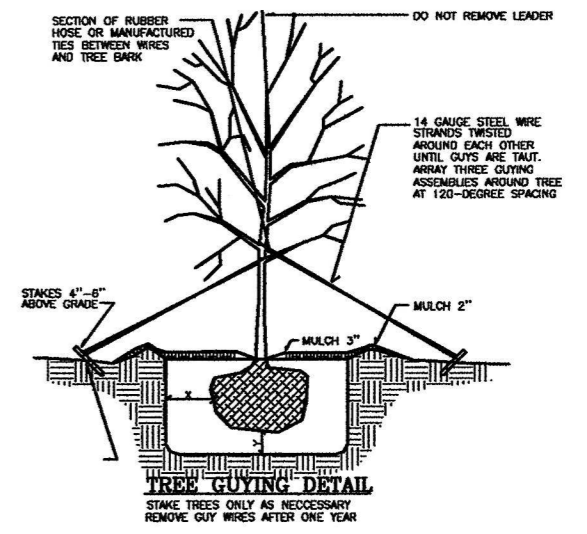
ALL OTHERS SHOWN ON THIS PLAN SHALL BE MEYER ZOOPLA (ZOOPLA JAPONICA)

THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND FLAGGING ALL UNDERGROUND UTILITIES PRIOR TO PROCEEDING WITH ANY EXCAVATION WORK. IF ANY DAMAGE IS DONE TO EXISTING OR NEW UTILITIES, ALL NECESSARY REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH NO COST TO THE OWNER.

CALL: 1-800-632-4849 TO LOCATE UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION. GAS LINES MAY BE LOCATED ON SITE. CONTRACTOR TO VERIFY WITH OWNER OR OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH ANY EXCAVATION.

NOTE: THE PLANT QUANTITIES SHOWN ON THE PLANT LIST ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. IN THE EVENT THERE IS A DIFFERENCE IN QUANTITY BETWEEN PLANT QUANTITIES IN THE PLANT LIST AND PLANT QUANTITIES ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY QUANTITY DIFFERENCE.

DATE	TIME	LOCATION



PROPERTY OWNER
PAUL & JILL GIGLIOTTI D.V.M.
8 NORTH 26TH STREET
WILMINGTON, N.C. 28405

LEGEND
 EXISTING TREE TO BE REMOVED
 EXISTING TREE TO REMAIN
 NOTE: #1 ARBORIST TO DETERMINE CONDITION OF TREE & MAKE RECOMMENDATION ON SAVING OR REMOVAL BASED ON TRC COMMENT

Approved Construction Plan		
Name	Date	
Planning		
Public Utilities		
Traffic		
Fire		

STORMWATER MANAGEMENT PLAN
APPROVED
 CITY OF WILMINGTON
 ENGINEERING DEPARTMENT
 DATE _____ PERMIT # _____
 SIGNED _____

DESIGNED: H. Capps
 DRAWN: R. Capps
 DATE: 12-22-2014
 SCALE: 1"=30'
 JOB NO.: 401-00110
 SHEET
L2
 OF 4 SHEETS

LANDSCAPE PLAN
 SCALE: 1"=30'-0"

HICA
 Howard T. Capps & Associates, Inc.
 Land Planning Landscape Architecture
 201 N. Front Street, Suite 502
 Wilmington, NC 28402
 Phone: (910) 763-7708 Fax: (910) 763-7708

Forest Hills Veterinary Hospital
 4 & 8 North 26th Street/2611 Market Street
 Wilmington, North Carolina

REVISIONS	DATE
TRC COMMENTS	11/22/10

R-10
 NOW OR FORMERLY
 BLAIR
 BOOK 3811 PAGE 0011
 PARCEL ID.# 3128-80-6153-000
 APPARENT RESIDENTIAL

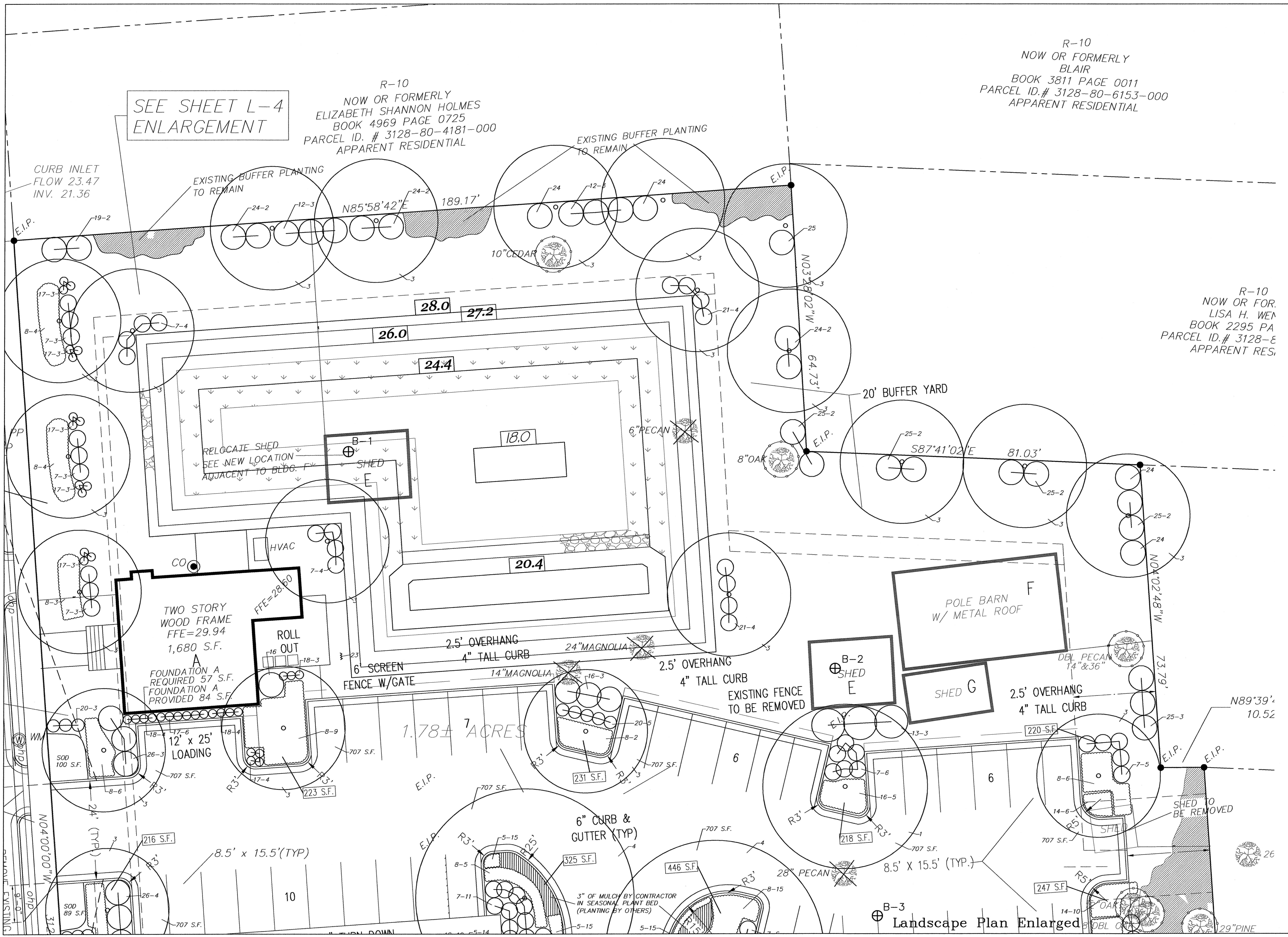
R-10
 NOW OR FORMERLY
 ELIZABETH SHANNON HOLMES
 BOOK 4969 PAGE 0725
 PARCEL ID.# 3128-80-4181-000
 APPARENT RESIDENTIAL

R-10
 NOW OR FOR.
 LISA H. WEN
 BOOK 2295 PA
 PARCEL ID.# 3128-E
 APPARENT RES.

HITCA
 Howard T. Capps & Associates, Inc.
 Land Planning Landscape Architecture
 201 N. Front Street, Suite 512
 Wilmington, North Carolina 28401
 Phone: (910) 798-7708 Fax: (910) 798-7708

Forest Hills Veterinary Hospital
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DESIGNED: H. Capps	DRAWN: R. Capps
DATE: 12-22-2014	
SCALE: 1"=10'	
JOB NO.: 401-00110	
SHEET	
L4	
OF 4 SHEETS	



SEE SHEET L-4
 ENLARGEMENT

TWO STORY
 WOOD FRAME
 FFE=29.94
 1,680 S.F.
 FOUNDATION A
 REQUIRED 57 S.F.
 FOUNDATION A
 PROVIDED 84 S.F.

POLE BARN
 W/ METAL ROOF

SHED G

⊕ B-3
 Landscape Plan Enlarged