CONSTRUCTION PLANS FOR PINE VALLEY BRANCH LIBRARY Wilmington, North Carolina



NOTICE REQUIRED

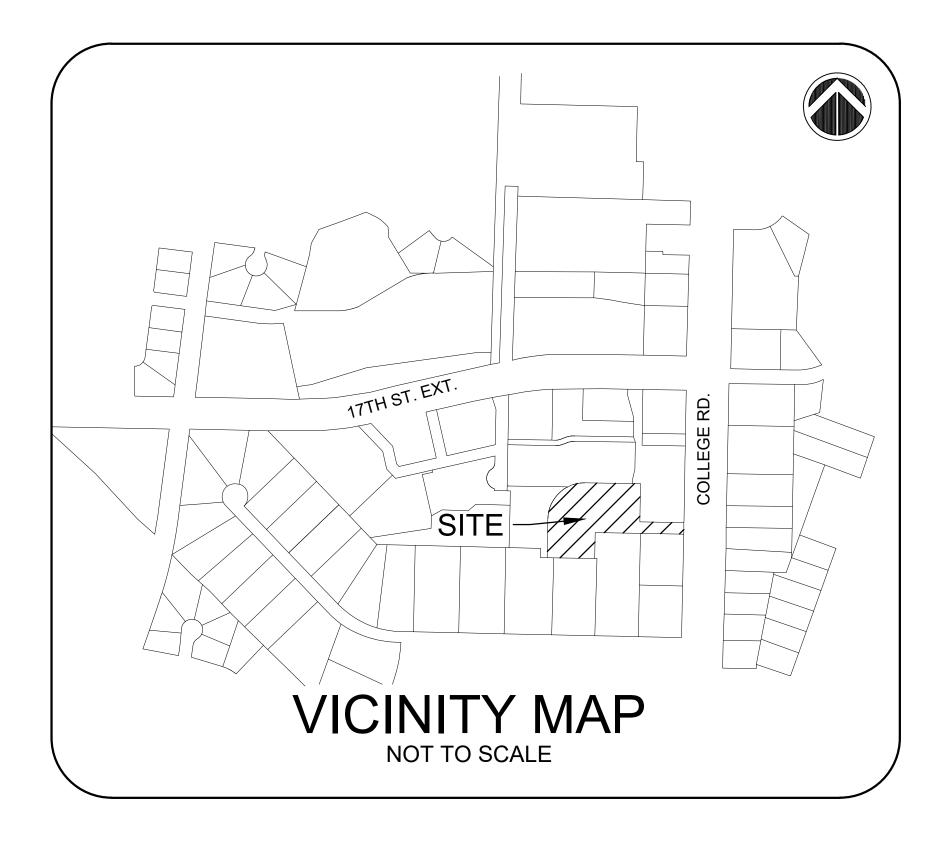
ALL EXISTING UNDERGROUND UTILITIES SHALL BE PHYSICALLY LOCATED BY CONTRACTOR PRIOR TO THE BEGINNING OF ANY CONSTRUCTION IN THE VICINITY OF SAID UTILITIES.

FACILITIES HAVE BEEN MARKED, YOU MAY BEGIN YOUR EXCAVATION ACTIVITIES. Know what's below. Call before you dig.

CONTACT "CAROLINA ONE CALL" AT 811 EMERGENCY DIAL 911 POLICE - FIRE - RESCUE

NORTH CAROLINA LAW REQUIRES A TWO WORKING DAYS NOTICE BE GIVEN TO

THE UTILITY OWNERS BEFORE YOUR DIGGING BEGINS. ONCE ALL UNDERGROUND





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REVISIONS ISSUED FOR TRC REVIEW 2018-06-13

SEALS



PINE VALLEY BRANCH LIBRARY 3802 SOUTH COLLEGE ROAD WILMINGTON, NC 28412

OWNER **NEW HANOVER** COUNTY

PHASE PRELIMINARY **ISSUE FOR BID** DATE MAY 15, 2018 PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE Cover

DRAWING NUMBER

C - 001

EXISTING CONDITION NOTES:

COMPANY.

- 1. THE DRAWING IS BASED ON A SURVEY BY BATEMAN CIVIL SURVEY
- 2. THIS PROJECT IS IN THE CAMA LAND USE CLASSIFICATION OF URBAN.
- EXISTING UTILITY INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION, VERIFICATION, SUPPORT AND PROTECTION OF ALL ABOVE GROUND AND UNDERGROUND UTILITIES TO REMAIN IN PLACE. INCLUDING ANY UTILITIES NOT INDICATED ON THESE DRAWINGS. ANY CONFLICTS OR DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
- CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, TREES, PAVEMENT, UTILITIES, AND OTHER PROPERTY UNLESS THEY ARE TO BE DEMOLISHED. ANY PROPERTY NOT AUTHORIZED FOR REMOVAL, BUT DAMAGED BY THE CONTRACTOR SHALL BE RESTORED BY THE CONTRACTOR TO THE ENGINEER'S OR OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL MAKE EVERY EFFORT TO SAVE PROPERTY IRONS. MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. PROPERTY IRONS, MONUMENTS, AND OTHER PERMANENT POINTS OF REFERENCE DESTROYED BY THE CONTRACTOR SHALL BE REPLACED BY A NORTH CAROLINA LICENSED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 6. THE CONTRACTOR SHALL MAKE SURE THAT WORK PERFORMED ON THIS PROJECT SHALL NOT IMPACT THE OPERATION OF ANY ADJACENT PROPERTIES.
- THE CONTRACTOR SHALL SEQUENCE WORK AS NECESSARY TO ENSURE THAT ALL UTILITY SERVICES. INCLUDING FIRE HYDRANTS. REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL RESTORE ANY ACCESS ROADS AND STAGING AREAS USED BACK TO THEIR ORIGINAL CONDITION. ALL DISTURBED AREAS SHALL BE VEGETATED IN ACCORDANCE WITH THE PROJECT PLANS.
- 9. THE CONTRACTOR SHALL TAKE ADEQUATE PROTECTIVE MEASURES TO INSURE THAT EXISTING PAVEMENT SURFACES ARE NOT DAMAGED FROM TRACKED CONSTRUCTION EQUIPMENT OR ANY OTHER POSSIBLE SOURCE WHEN EQUIPMENT IS BEING MOVED DURING AND AFTER WORK IS BEING CONDUCTED. THE CONTRACTOR SHALL REPAIR ANY PAVED AREAS DAMAGED DURING CONSTRUCTION.
- 10. EXISTING PAVEMENTS AND ALL OTHER AREAS ADJACENT TO THE SITE SHALL BE KEPT CLEAN AT ALL TIMES. DO NOT ALLOW BUILD UP OF SOIL. MUD. DUST OR OTHER DEBRIS.
- 11. ANY AND ALL MATERIAL QUANTITIES INDICATED ON THIS PLAN SET ARE FOR REFERENCE ONLY. THE CONTRACTOR MUST VERIFY ALL MATERIAL QUANTITIES SHOWN.

SITE NOTES:

- 1. IN ALL CASES CONTRACTOR SHALL COMPLY WITH CITY OF WILMINGTON LAND DEVELOPMENT CODE AND PROJECT SPECIFICATIONS. IF A DISCREPANCY IS FOUND, THE MORE STRINGENT SHALL GOVERN.
- ANY SIGNAGE FOR THE SITE SHALL BE SUBMITTED FOR APPROVAL BY THE CITY OF WILMINGTON AT A LATER DATE. NO SIGNAGE SHALL BE INSTALLED WITHOUT FIRST OBTAINING THE PROPER APPROVALS.
- 3. ALL DIRECTION AND INCIDENTAL SIGNAGE SHALL CONTAIN NO MARKETING.
- ALL SIGNAGE AND PAVEMENT MARKINGS MUST COMPLY WITH MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

GENERAL UTILITY NOTES:

- 1. ALL UTILITY MATERIALS, CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND SHALL MEET OR EXCEED CAPE FEAR PUBLIC UTILITY AUTHORITY AND NCDEQ STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINES PRIOR TO THE INSTALLATION OF ANY NEW LINES. WHERE UTILITY CONFLICTS ARE INDICATED, POT-HOLING UTILITIES WILL BE REQUIRED.
- EXISTING UTILITIES SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL HAND EXCAVATE WHEN ADJACENT TO EXISTING UTILITIES.
- CONTRACTOR SHALL COORDINATE SERVICE AND METER SIZES WITH MECHANICAL ENGINEER. CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES OR IF ANY ADJUSTMENTS ARE NEEDED.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES. DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.

SANITARY SEWER NOTES:

- 1. ALL SEWERLINES SHALL HAVE A MINIMUM OF 36-INCHES OF COVER FROM THE ELEVATION OF FINISHED GRADE. AN EXCEPTION IS WHEN DIP IS SPECIFIED FOR SEWER.
- 2. SANITARY SEWER SEPARATION SHALL COMPLY WITH THE REQUIREMENTS OF 15A NCAC 02T .0305 AS SUMMARIZED BELOW: WATER
 - 10-FEET (LATERALLY) -18-INCHES (VERTICAL - WATER OVER SEWER) STORM SEWER - 24-INCHES (VERTICAL)
- WHERE SANITARY SEWERS PASS UNDER STORMDRAIN PIPE AND THE VERTICAL SEPARATION IS LESS THAN 24", ENGINEERING SOLUTIONS SUCH AS DUCTILE IRON PIPE OR STRUCTURAL BRIDGING SHALL BE PROVIDED TO PREVENT CRUSHING THE UNDERLYING PIPE.
- WHERE SANITARY SEWERS PASS OVER STORMDRAIN PIPE AND THE VERTICAL SEPARATION IS LESS THAN 24". THE SANITARY SEWER SHALL MEET THE MATERIALS, TESTING METHODS, AND ACCEPTABILITY STANDARDS FOR WATER MAINS (15A NCAC 18C)
- SANITARY SEWER IS OWNED AND OPERATED BY CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA). ALL SEWERLINES AND SEWERLINE APPURTENANCE CONSTRUCTION SHALL MEET OR EXCEED CFPUA STANDARDS AND SPECIFICATIONS.
- 7. ALL SEWER WITHIN 50' OF WETLANDS SHALL MEET THE MATERIALS, TESTING, AND ACCEPTABILITY STANDARDS FOR WATERMAINS AS SPECIFIED IN 15A NCAC 18C.

WATER NOTES

- MINIMUM UTILITY SEPARATIONS SANITARY SEWER - 10-FEET (LATERALLY)
 - STORM SEWER
- AT CROSSING NO JOINTS).
- SPECIFICATIONS.

GENERAL STORMWATER NOTES

- FROM BUILDINGS AT ALL TIMES.
- BUILDING AND TO THE STORMWATER COLLECTION SYSTEM
- OBTAINING PERMIT APPROVALS.
- NOTED.

STORMWATER COLLECTION SYSTEM NOTES

- 100 FEET.
- AND PIPE INVERTS AS INDICATED.
- WATERTIGHT.
- PAVEMENT AND SHALL BE HEAVY-DUTY TRAFFIC RATED.
- ACCUMULATED SILT AND DEBRIS.

SEDIMENTATION OPERATION & MAINTENANCE NOTES:

- AN EROSION CONTROL PERMIT WILL BE REQUIRED.
- DESIGNED.

SEQUENCE OF PRELIMINARY LAND DISTURBANCE:

- 2. DETERMINE AND MARK LIMITS OF DISTURBANCE.
- ARE PRESENT.
- SILT FENCE AND SILT FENCE ROCK OUTLETS.
- GRADING OCCURS.
- TO PREVENT UN-TREATED RUNOFF FROM EXITING THE SITE.
- IS INSTALLED ON EXISTING POND OUTLET STRUCTURE.
- WITHIN THE LIMITS OF DISTURBANCE AS REQUIRED.
- AREAS THAT ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS.

- 18-INCHES (VERTICAL - WATER OVER SEWER) - 18-INCHES (VERTICAL)

WHERE A WATER MAIN PASSES OVER A SEWER, AND THE VERTICAL SEPARATION IS LESS THAN 18" OR WHERE WATER PASSES UNDER SEWER. THE SEWER AND WATERMAIN SHALL BOTH BE DUCTILE IRON PIPE FOR A DISTANCE OF 10' ON EACH SIDE OF THE CROSSING (20' LENGTH CENTERED

WATER IS OWNED AND OPERATED BY CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA). ALL WATERLINE AND WATERLINE APPURTENANCE CONSTRUCTION SHALL MEET OR EXCEED CFPUA STANDARDS AND

1. DURING CONSTRUCTION, CONTRACTOR SHALL PERFORM GRADING IN A MANNER AND SEQUENCE THAT WILL PROVIDE PROPER DRAINAGE AWAY

2. ALL STORMWATER RUNOFF SHALL BE DIRECTED AWAY FROM THE

NCDEQ STATE STORMWATER AND EROSION CONTROL PERMITS ARE REQUIRED AND WILL BE OBTAINED. NO LAND DISTURBANCE OR INSTALLATION OF ANY IMPERVIOUS SURFACES SHALL BE DONE PRIOR TO

ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE

ALL PIPES TO BE LAID TO THE SLOPE GRADIENTS NOTED ON THIS PLAN SHEET. THE MAXIMUM VARIATION FROM TRUE SLOPE SHALL BE 1/8-INCH IN

SUFFICIENT BEDDING SHALL BE INSTALLED TO ESTABLISH ELEVATIONS

ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED AND CUT FLUSH TO INSIDE OF BOX TO ASSURE CONNECTION AT STRUCTURE IS

ALL STORMWATER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH

UPON THE COMPLETION OF CONSTRUCTION AND SITE STABILIZATION. ALL PROPOSED AND EXISTING PIPES SHALL BE CLEANED OUT TO REMOVE ALL

1. THE TOTAL AREA OF DISTURBANCE EXCEEDS 1.0 ACRE AND THEREFORE

2. 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, ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS

TEMPORARY CONSTRUCTION ENTRANCES SHALL BE INSPECTED WEEKLY IN ORDER TO KEEP SEDIMENT FROM BEING TRANSPORTED OFFSITE.

1. PRECONSTRUCTION CONFERENCE TO BE HELD PRIOR TO BEGINNING.

3. INSTALL TREE PROTECTION AND TREE PROTECTION SIGNAGE. TREE PROTECTION SIGNAGE SHOULD BE PLACED ALONG THE LIMITS OF DISTURBANCE AT 100' INTERVALS IN LOCATIONS WHERE TREES TO REMAIN

4. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AND INSTALL

5. INSTALL TEMPORARY SKIMMER SEDIMENT BASINS BEFORE ANY SITE

INSTALL TEMPORARY DIVERSION SWALES TO COLLECT AND CONVEY RUNOFF TO THE SEDIMENT BASINS. CONSTRUCT ADDITIONAL DIVERSION SWALES AS NEEDED TO ENSURE MAXIMUM COLLECTION OF RUNOFF AND

7. THE TEMPORARY SKIMMER SEDIMENT BASINS AND ALL TEMPORARY DIVERSION SWALES SHALL REMAIN IN PLACE UNTIL THE FINAL STORMDRAIN SYSTEM IS INSTALLED AND SKIMMER DEWATERING DEVICE

TOPSOIL REMOVAL AND/OR STORAGE. PROVIDE TEMPORARY STOCKPILES

INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES EVERY 7 DAYS AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER).

10. PLACE TEMPORARY SEEDING ON ALL PERIMETER SWALES AND ALL AREAS WITH SLOPES GREATER THAN 3:1 THAT ARE TO BE LEFT IDLE FOR MORE THAN 7 DAYS. PLACE TEMPORARY SEEDING ON ALL OTHER DISTURBED SEQUENCE OF FINAL LAND DISTURBANCE:

- 1. INSTALL STORMDRAIN INFRASTRUCTURE WITH WIRE/GRAVEL INLET PROTECTION.
- 2. INSTALL TEMPORARY SKIMMER ON EXISTING OUTLET STRUCTURE AT EXISTING POND.
- 3. REMOVE TEMPORARY SKIMMER BASIN AND TEMPORARY DIVERSION SWALES.
- 4. BRING SITE TO FINAL GRADE. PROVIDE TEMPORARY STOCKPILES WITHIN THE LIMITS OF DISTURBANCE AS REQUIRED.
- 5. MAINTAIN TEMPORARY GRAVEL CONSTRUCTION ENTRANCES, SILT FENCE, AND INLET PROTECTION.
- 6. INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES EVERY 7 DAYS AND AFTER EACH SIGNIFICANT RAINFALL EVENT (0.5" OR GREATER).
- 7. PLACE TEMPORARY SEEDING ON ALL PERIMETER SWALES AND ALL AREAS WITH SLOPES GREATER THAN 3:1 THAT ARE TO BE LEFT IDLE FOR MORE THAN 7 DAYS. PLACE TEMPORARY SEEDING ON ALL OTHER DISTURBED AREAS THAT ARE TO BE LEFT IDLE FOR MORE THAN 14 DAYS.
- 8. PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON. FERTILIZE. WATER AND RESEED AS REQUIRED TO ESTABLISH A VIGOROUS STAND OF GRASS.
- 9. AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED. REMOVE ALL ACCUMULATED SEDIMENT FROM SILT FENCE AND SPREAD EVENLY ACROSS THE SITE. GRASS THESE AREAS IMMEDIATELY AND REMOVE ALL EROSION CONTROL MEASURES.
- 10. REMOVE SEDIMENT FROM POND AND REMOVE SKIMMER FROM OUTLET STRUCTURE.

FIRE AND LIFE SAFETY NOTES

- 1. TYPE OF CONSTRUCTION OF BUILDING ACCORDING TO THE INTERNATIONAL BUILDING CODE MUST BE PRESENT ON THE PLANS.
- 2. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 3. NEW HYDRANTS MUST BE BROUGHT INTO SERVICE PRIOR TO THE DELIVERY OF COMBUSTIBLE MATERIALS TO THE JOB SITE.
- 4. A FIRE HYDRANT MUST BE WITHIN 150' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
- THE FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT
- 6. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FDC OR FIRE HYDRANTS. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF FIRE HYDRANTS AND THE FDC
- . ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT
- 8. THE CONTRACTOR IS REQUIRED TO OBTAIN A SEPARATE UNDERGROUND FIRE LINE PERMIT FROM THE WILMINGTON FIRE AND LIFE SAFETY DIVISION (910-343-0696) FOR THE PRIVATE UNDERGROUND FIRE LINE.
- 9. ALL ISOLATION VALVES WITHIN THE "HOT BOX" SHALL BE ELECTRICALLY SUPERVISED. COORDINATION WITH THE FIRE SPRINKLER AND ALARM INSTALLER IS REQUIRED IN REGARDS TO RUNNING WIRE FOR A TAMPER SWITCH.



Approved Construction Plan			
	Name	<u>Date</u>	
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NOTICE REQUIRED

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> CONTACT "CAROLINA ONE CALL" AT 811 EMERGENCY DIAL 911 POLICE - FIRE - RESCUE



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SEALS



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OWNER **NEW HANOVER** COUNTY

PHASE PRELIMINARY ISSUE FOR BID DATE MAY 15, 2018 PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE **General Notes**

DRAWING NUMBER C-002

ABBREVI		Ν	- NORTHING
ABC	- AGGREGATE BASE COURSE	OC	- ON CENTER
ABD	- ABANDONED	OS	- OUTLET STRUCTURE
AC	- ACRE	OWS	- OIL/WATER SEPARATOR
ACI	- AMERICAN CONCRETE INSTITUTE	PIV	- POST INDICATOR VALVE
AFFF	- AQUEOUS FILM FORMING FOAM	PN	- PINE TREE
APPROX	- APPROXIMATE	PP	- POWER POLE
ARV	- AIR RELEASE VALVE	PT	- POINT
ASC	- ASBESTOS CEMENT	PVC	- POLYVINYL CHLORIDE
ASTM	- AMERICAN SOCIETY FOR TESTING AND	R	- RADIUS
	MATERIAL	RCP	- REINFORCED CONCRETE PIPE
BEN	- BENCH	RD	- ROOF DRAIN
ЗC	- BACK OF CURB	RED	- REDUCER
BFP	- BACKFLOW PREVENTER	RPDA	- REDUCED PRESSURE DETECTOR
BLDG	- BUILDING		ASSEMBLY
BMP	- BEST MANAGEMENT PRACTICE	RS	- ROUGH SAWN
CATV	- CABLE TELEVISION	RTK	- REAL TIME KINEMATIC
CB	- CATCH BASIN	SCH	- SCHEDULE
CF	- CUBIC FEET	SD	- STORM DRAIN
		SF	- SQUARE FEET
CJ	- CONTRACTION JOINT	SF#1	- SAND FILTER #1
		SHWT	- SEASONAL HIGH WATER TABLE
CM	- CREPE MYRTLE	SPT	- STANDARD PENETRATION TEST
CMP	- CORRUGATED METAL PIPE	SS	- SANITARY SEWER
CO	- SEWER CLEANOUT	SSCO	- SANITARY SEWER CLEANOUT
COMM	- COMMUNICATION	SSMH	- SANITARY SEWER MANHOLE
CONC	- CONCRETE	ST	- SEDIMENT TRAP
CRSI	- CONCRETE REINFORCING STEEL INSTITUTE	T PED	- TELEPHONE PEDESTAL
CVR	- COVER		
DB	- COVER - DIVERSION BOX	TBM TC	
			- TOP OF CURB
DCJ	- DOWELED CONSTRUCTION JOINT	TCJ	- TRANSVERSE CONTRACTION JOINT
DI		TD	- TRENCH DRAIN
DIA	- DIAMETER	TE	- THICKENED EDGE
Ø	- DIAMETER	TEJ	- THICKENED EDGE WITH EXPANSION JOINT
DIM	- DIMENSION	ТР	- TREE PROTECTION
DIP	- DUCTILE IRON PIPE	TSB	- TEMPORARY SKIMMER BASIN
DOM	- DOMESTIC	TST	- TEMPORARY SEDIMENT TRAP
E	- EASTING	ТҮР	- TYPICAL
EJ	- EXPANSION JOINT		
EL/ELEV	- ELEVATION	UC	- UNDERGROUND COMMUNICATIONS
ELEC	- ELECTRIC	UFC	- UNIFIED FACILITIES CRITERIA
ΞX	- EXISTING	UNK	- UNKNOWN
FDC	- FIRE DEPARTMENT CONNECTION	W	- WATER
FEMA	- FEDERAL EMERGENCY MANAGEMENT	WH	- WALL HYDRANT
	AGENCY	WL	- WATER LINE
FES	- FLARED END SECTION	WM	- WATER METER
FFE	- FINISHED FLOOR ELEVATION	WQL	- WATER QUALITY LEVEL
FH	- FIRE HYDRANT	WV	- WATER VALVE
FIRM	- FLOOD INSURANCE RATE MAP	WWF	- WELDED WIRE FABRIC
FL	- FLOW LINE	V V V I -	
FM	- FORCEMAIN		
=0	- FIBER OPTIC		
=S	- FIRE SERVICE		
G	- GAS		
GPM	- GALLONS PER MINUTE		
GW	- GUY WIRE		
HVAC	- HEATING/AIR CONDITIONING UNIT		
E/INV	- INVERT ELEVATION		
_:W	- LENGTH TO WIDTH		
vv _CJ	- LONGITUDINAL CONTRACTION JOINT		
_CJ _F			
_KJ			
	- LIGHT POLE		
MAP	- MAPLE TREE		
MAX			
MG	- MATCH GRADE		
ИН	- MANHOLE		
MIN	- MINIMUM		
MUTCD	- MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES		
N/A	- NOT APPLICABLE		
	- NORTH AMERICA VERTICAL DATUM		
NCDEQ	- NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY		
NCDOT	- NORTH CAROLINA DEPARTMENT OF		
10001	TRANSPORTATION		

LEGEND	EXISTING		PROPOSED
PROPERTY LINE			
PROJECT LIMITS			
PROPERTY CORNER	0		
ZONING LINE			
SETBACKS			
LANDSCAPE BUFFER			
EASEMENT			
CONTOURS	30		TE EE
SPOT ELEVATIONS			● <i>30.63</i>
ASPHALT PAVEMENT			
CONCRETE PAVEMENT			
GRAVEL PAVEMENT			
SIDEWALK GRASS PAVERS	<u></u>		
BUILDING			
SPILL CURB & GUTTER			
CATCH CURB & GUTTER			1 <u></u>
WHEEL STOPS			_
WATERLINE			WL
WL VALVE	WV MV		M
WATER METER	•		\bigotimes
BACKFLOW PREVENTER			-
SEWER FORCEMAIN	— — — — FM—		FM
SEWERLINE	- — — — —SS -		
SEWER CLEANOUT			CO
DUPLEX GRINDER PUMP STATION			\bullet
SEWER VALVE BOX			
STORMDRAIN PIPE	— — — — —SD —		
STORM INLET			
DOWNSPOUT			DS
FLARED END SECTION			
STORMWATER BMP			
POWER POLE	PP ص		
GUY WIRE	$\displaystyle\bigwedge$		
TELEPHONE PEDESTAL			
OVERHEAD ELECTRIC	— — — — OE—		
LIGHT POLE			-\$\$_P
UNDERGROUND COMMUNICATIONS	— — — — UC—		
MONITORING WELL			
LIMITS OF DISTURBANCE			
INLET PROTECTION			
TEMPORARY CONSTRUCTI ENTRANCE	ON		B3333333
SILT FENCE		-	SF 🖬 🖬 🖬 SF
CONCRETE DRAINAGE FLU	ME		
GRASS (SEED/SOD) (SEE VEGETATION SCHEDU	JLE		
ON SHEET D-1) MULCH			
WETLANDS			
SIGN	_0		<u> </u>
FIRE HYDRANT	FH		- -
FIRE DEPARTMENT CONNE	CTION	$\sim \gamma \diamond$	ୖ୰
FENCE	<u> </u>		
EDGE OF WATER	· ·		
LANDSCAPE TIMBER			
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HEAVY DUTY CONCRETE SIDEWALK			$\begin{tabular}{c c c c c c c c c c c c c c c c c c c $
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TREE XX	SS مرتبہ جریج XX" MAGNOLIA	XX" OAK/	XX"PALM XX" PINE
TREE PROTECTION		HARDWOOD	
BAFFLES		-	

WILMINGTON NORTH CAROLINA	
Public Services	
PPROVED STORMWATER MANAGEMENT PL	.AN
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	Name	<u>Date</u>	
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NORTH CAROLINA LAW REQUIRES A TWO WORKING DAYS NOTICE BE GIVEN TO THE UTILITY OWNERS BEFORE YOUR DIGGING BEGINS. ONCE ALL UNDERGROUND FACILITIES HAVE BEEN MARKED, YOU MAY BEGIN YOUR EXCAVATION ACTIVITIES.

CONTACT "CAROLINA ONE CALL" AT 811 EMERGENCY DIAL 911 POLICE - FIRE - RESCUE



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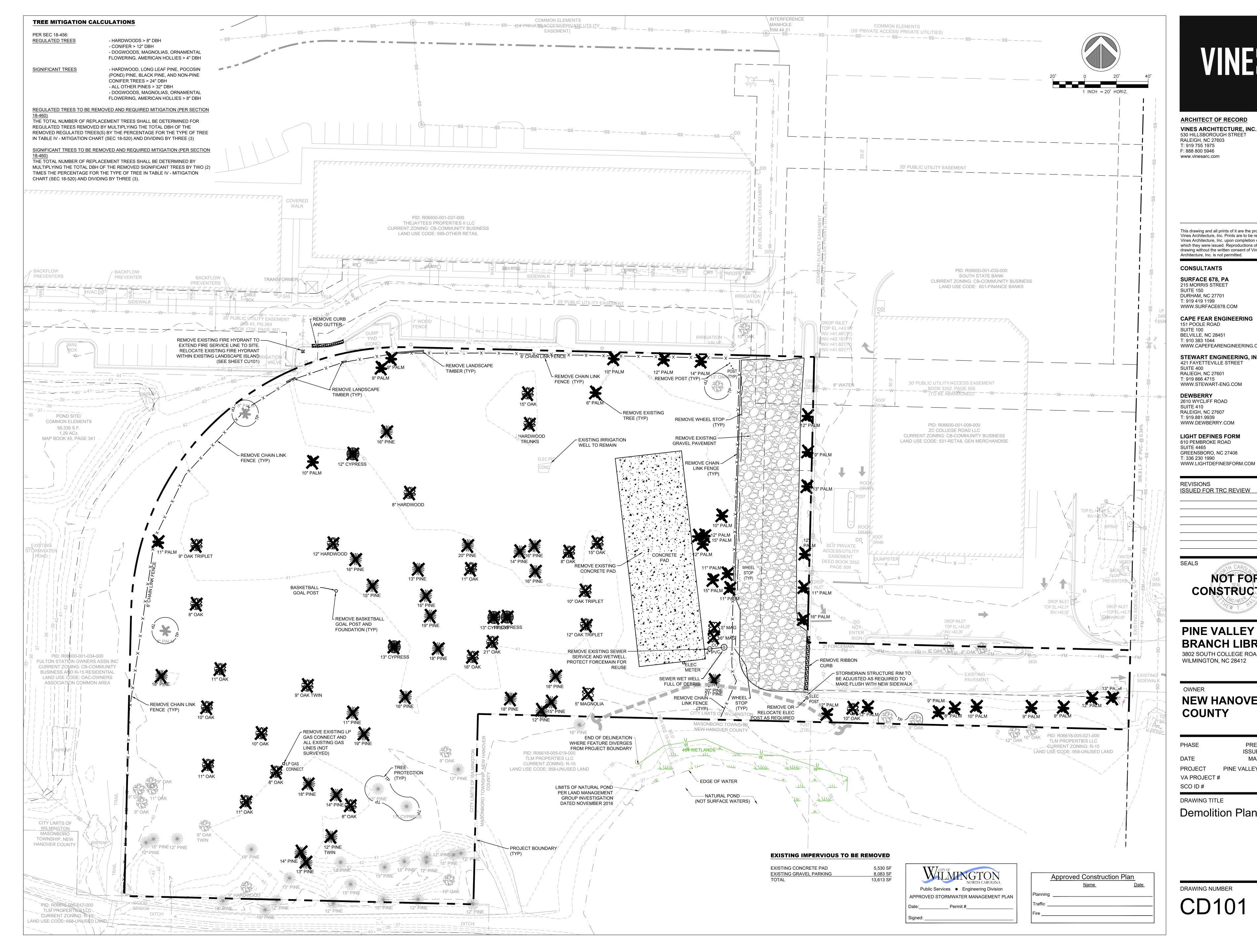
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PHASE PRELIMINARY ISSUE FOR BID DATE MAY 15, 2018 PINE VALLEY BRANCH PROJECT VA PROJECT # 2016005 SCO ID # -DRAWING TITLE

Legend and Abbreviations

DRAWING NUMBER

C-003





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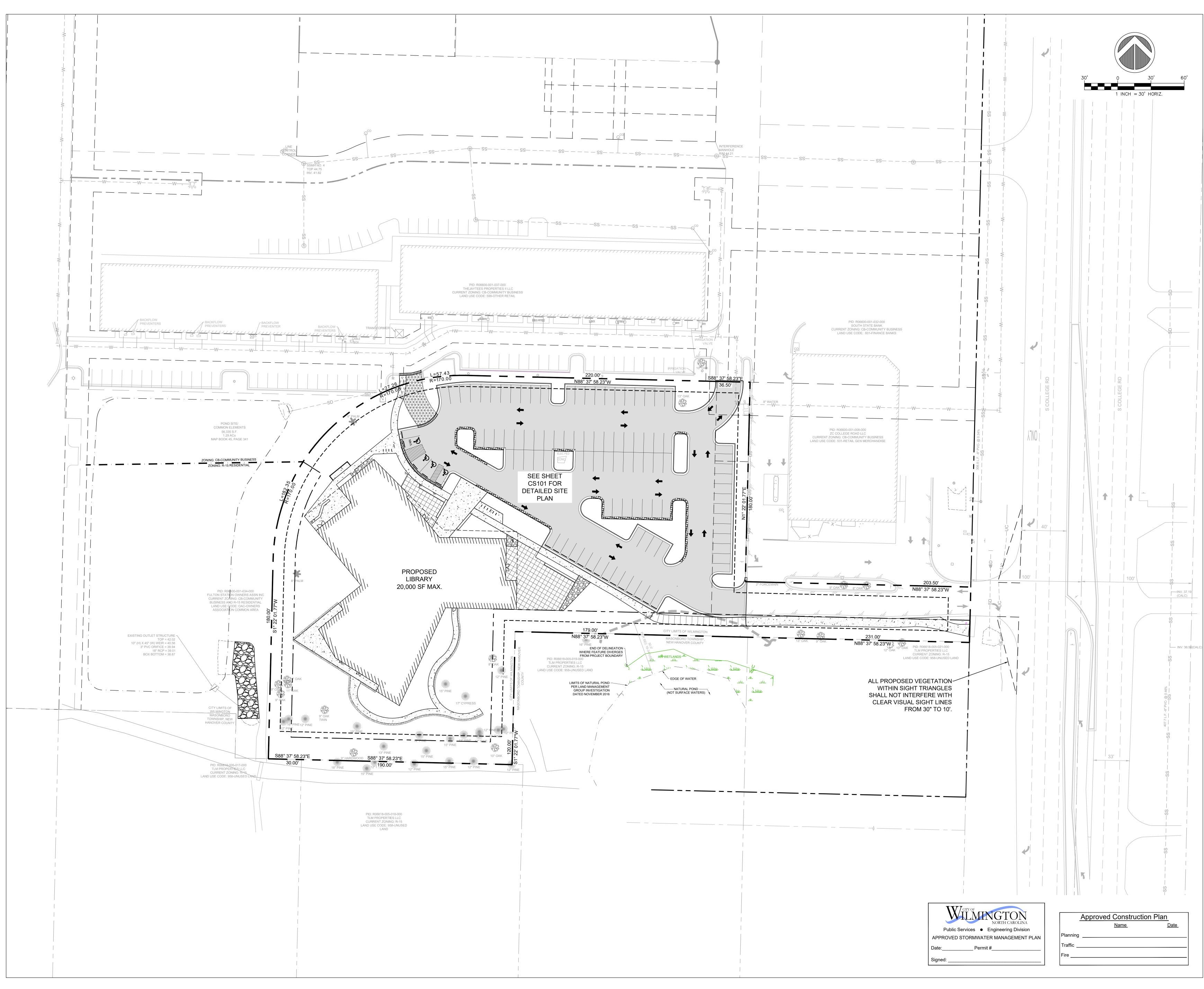
PHASE

PRELIMINARY ISSUE FOR BID DATE PINE VALLEY BRANCH PROJECT VA PROJECT # SCO ID #

MAY 15, 2018 2016005

Demolition Plan

DRAWING NUMBER





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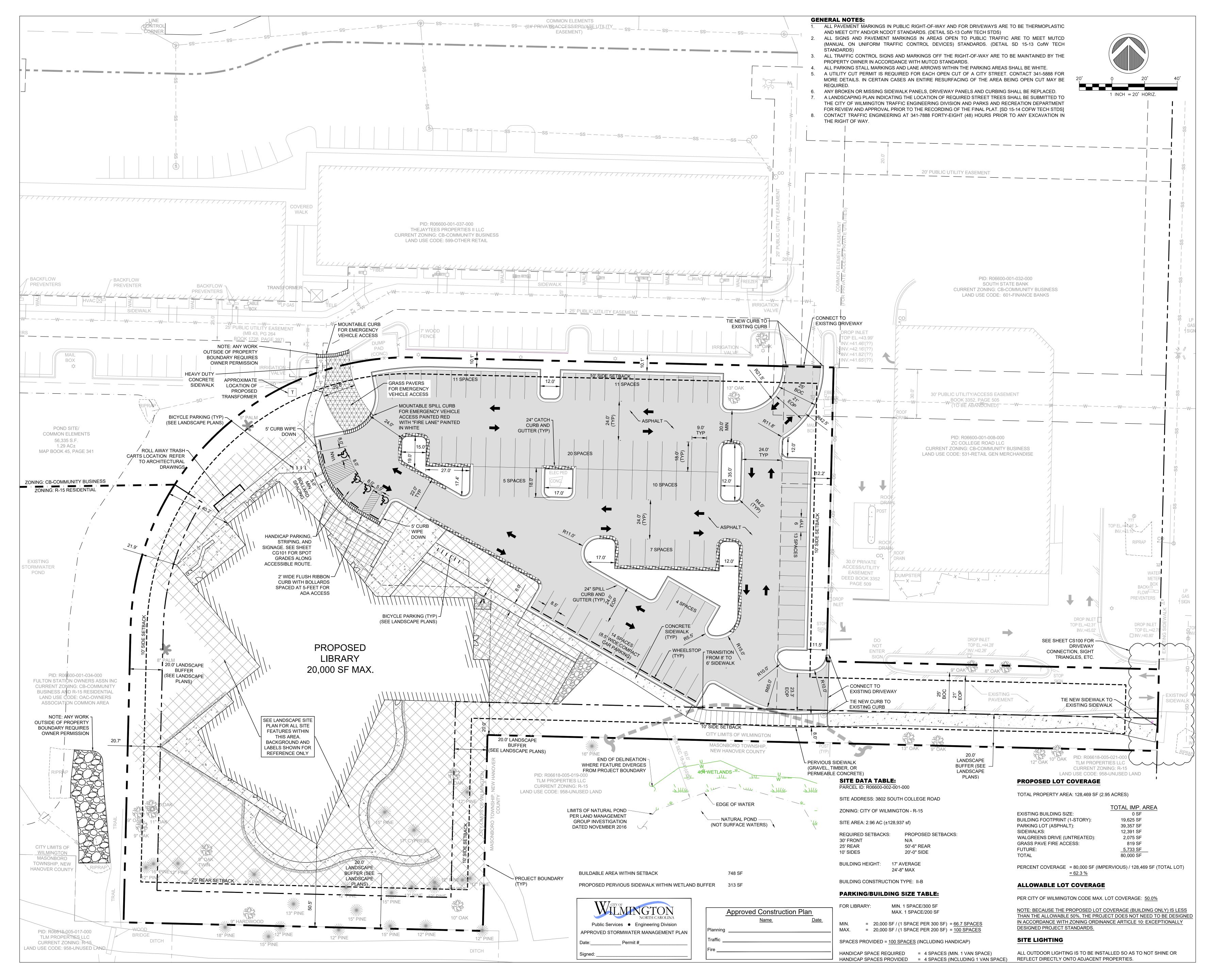
PHASE PRELIMINARY ISSUE FOR BID MAY 15, 2018 DATE PINE VALLEY BRANCH PROJECT VA PROJECT # 2016005 SCO ID #

DRAWING TITLE **Overall Site**

Plan

DRAWING NUMBER

CS100





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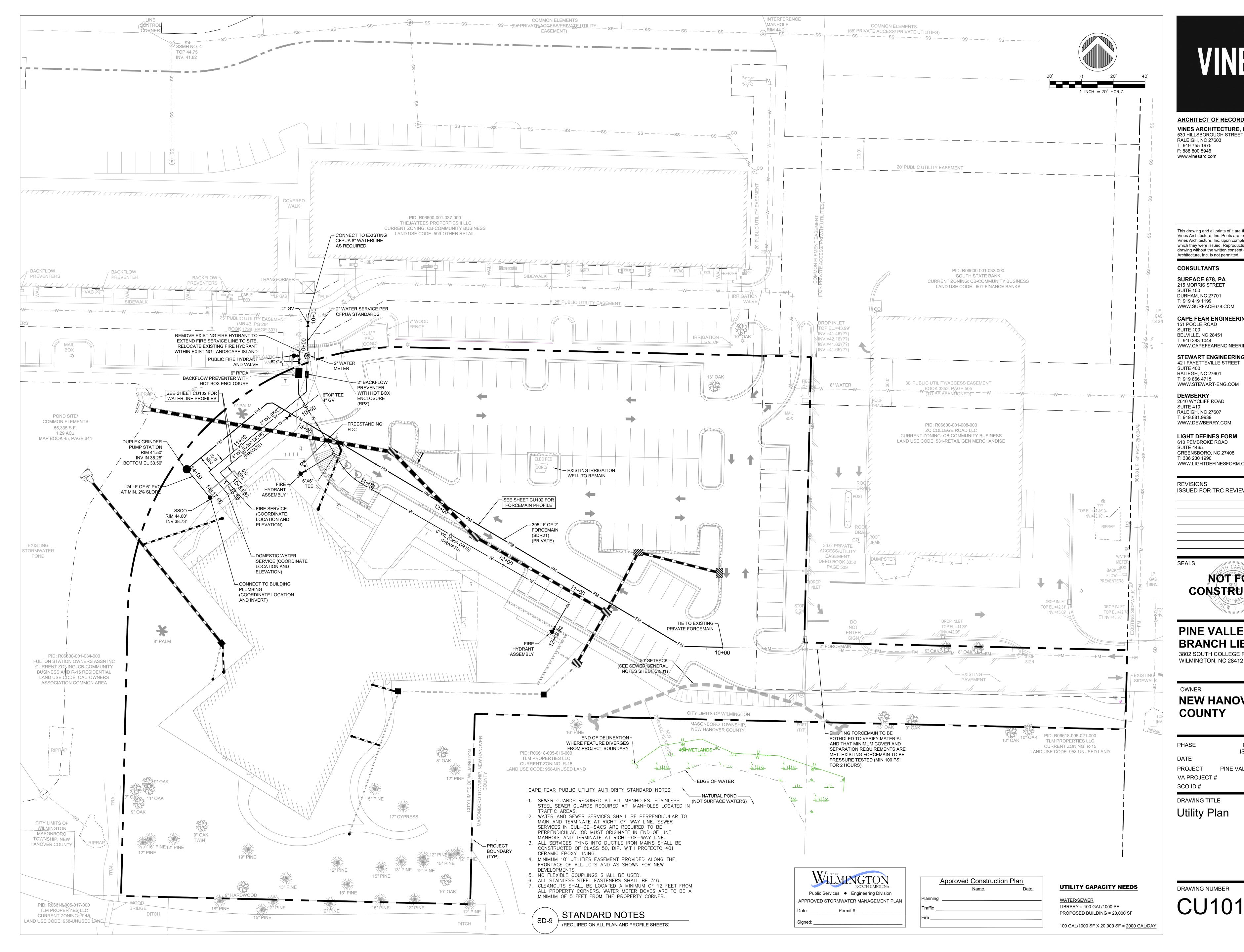


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DRAWING NUMBER





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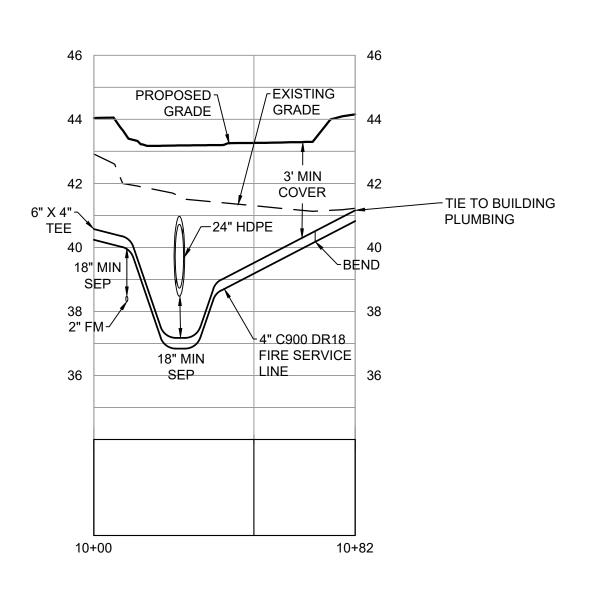


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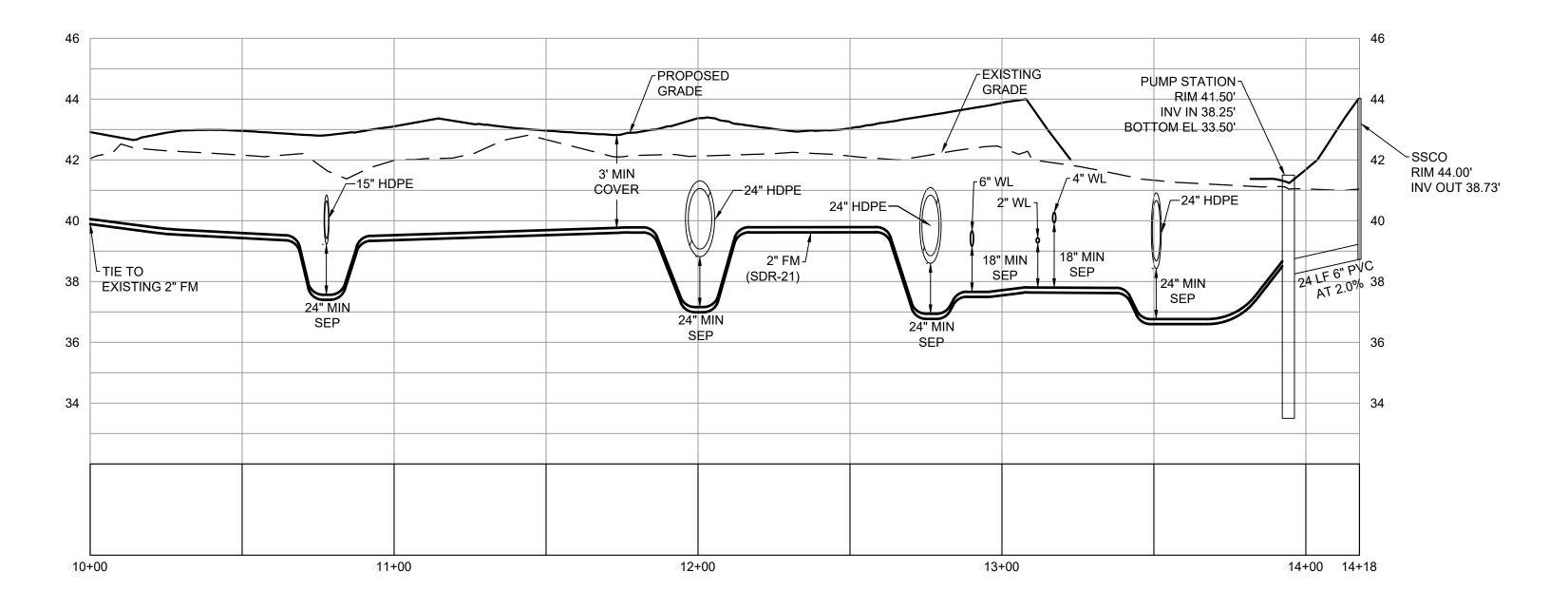
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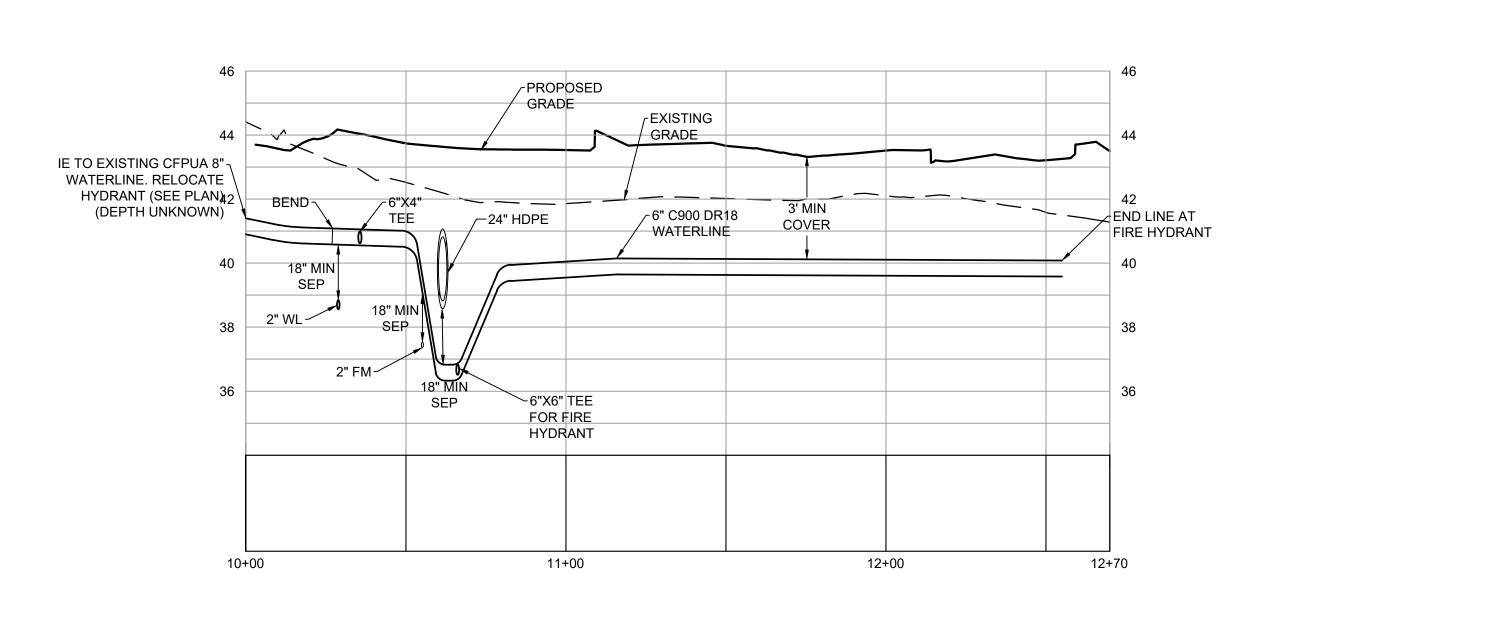
PHASE PRELIMINARY ISSUE FOR BID MAY 15, 2018 DATE PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE

Utility Plan



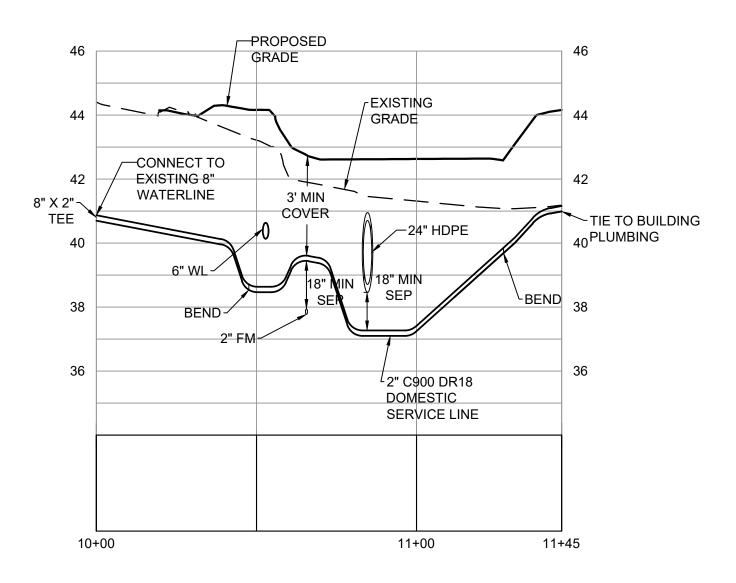
WATER - FIRE SERVICE





WATER - FIRE HYDRANT

FORCEMAIN



WATER - DOMESTIC SERVICE

CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:

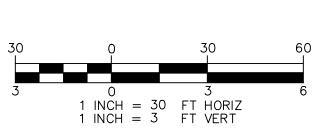
- 1. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN TRAFFIC AREAS. 2. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE AT RIGHT-OF-WAY LINE. SEWER SERVICES IN CUL-DE-SACS ARE REQUIRED TO BE
- PERPENDICULAR, OR MUST ORIGINATE IN END OF LINE MANHOLE AND TERMINATE AT RIGHT-OF-WAY LINE. 3. ALL SERVICES TYING INTO DUCTILE IRON MAINS SHALL BE CONSTRUCTED OF CLASS 50, DIP, WITH PROTECTO 401
- CERAMIC EPOXY LINING. 4. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
- 5. NO FLEXIBLE COUPLINGS SHALL BE USED.
 6. ALL STAINLESS STEEL FASTENERS SHALL BE 316. 7. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 12 FEET FROM ALL PROPERTY CORNERS. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.

STANDARD NOTES (REQUIRED ON ALL PLAN AND PROFILE SHEETS)

WILMINGTON NORTH CAROLIN	J
Public Services	ion
APPROVED STORMWATER MANAGEMEN	T PLAN
Date: Permit #	
Signed:	

Approved Construction Plan <u>Name</u> <u>Date</u>

SD-9





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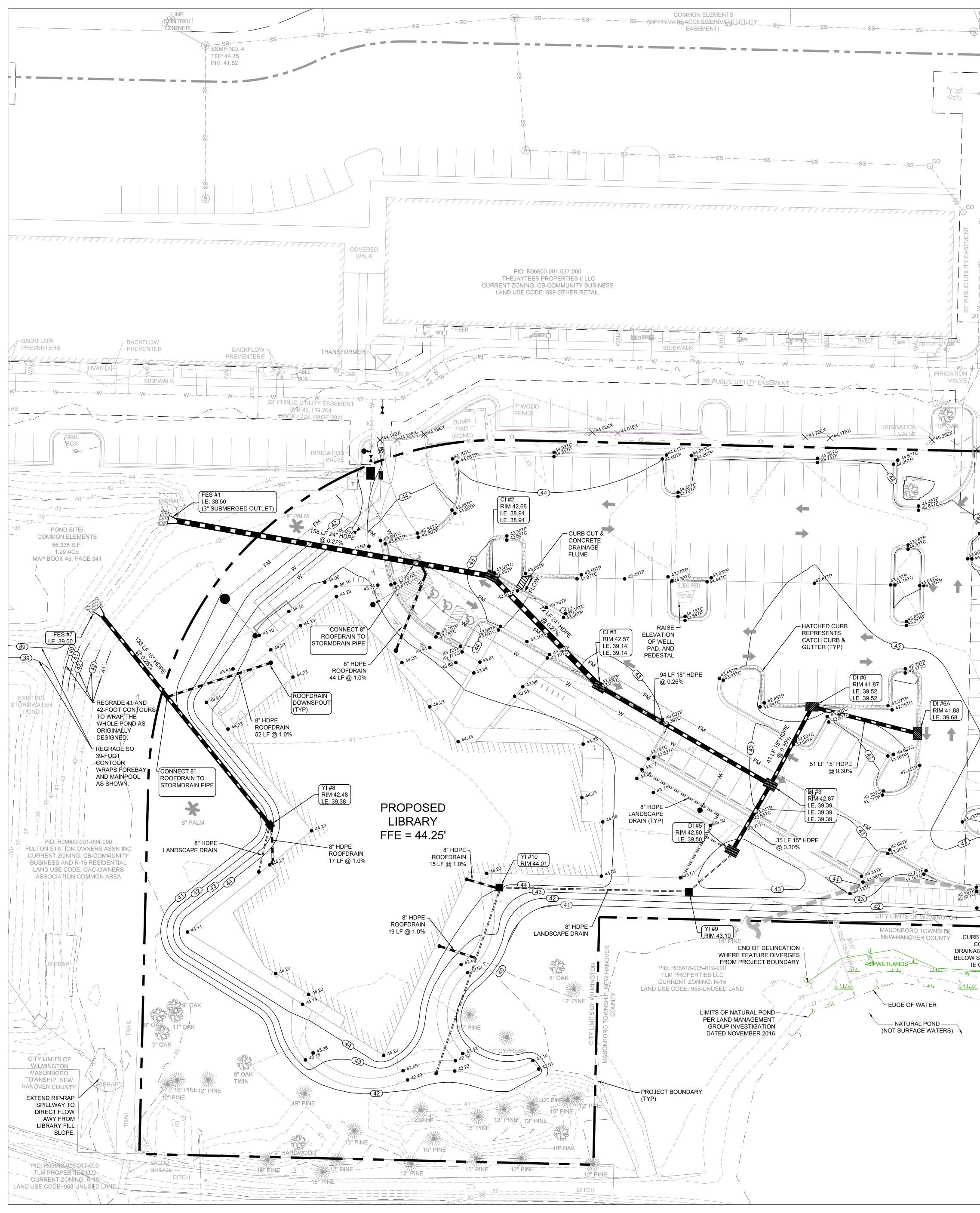
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Utility Profiles

DRAWING NUMBER CU102



NTERFERENCE IANHOLE SS SS	COMMON ELI (55' PRIVATE ACCESS/ F — — — SS— — — — SS—	EMENTS PRIVATE UTILITIES) SSSSSS		
				1 INCH = 20' HORIZ.
	2	0' PUBLIC UTILITY EASEMENT		
FOR PRIVATE ACCESS/ PRIVATET		PID: R06600-0 SOUTH STA CURRENT ZONING: CB-C0 LAND USE CODE: 60	TE BANK OMMUNITY BUSINESS	
INV.=4 INV.=4 NV.=4	INLET L.=43.99' 1.46'(??) 2.16'(??) 1.65'(??)			
A3.96TPC MAIL A3.96TPC MAIL A4.89TC A4.71EX A4.2TTP A4.2TTP	WATER	30' PUBLIC UTILITY/ACCESS EASEN – – – – – – – – – – – – – – – – – – –	W	(3) 0.34%
44.2771P	ROOF DRAHU POST			
	PRIVATE SS/UTILITY SEMENT BOOK 3352 GE 509 -45	$X \xrightarrow{\circ} X \xrightarrow{\circ} X$		RIPRAP
-т	43 DO NOT ENTER SIGN RCEMAIN FM HIS AREA OF NEW PAVEMENT IDEWALK IS NOT CAPTURED AT			PINLET .:=42.31' DROP INLET TOP EL.=42.78 DNILSIXE -FM FM - FM
A1 58778 A1 59778 A1 597	LLOWED TO BYPASS TREATME ER ORIGINAL PERMIT		44.29EX TE 44.29EX TE 44.90	A5.11 A5.11 A5.11 A5.11 A5.11 A5.11 A5.11 A4.71EX A4.73EX
DEWALK STORM	ST EXISTING MDRAIN JUNCTION IM AS REQUIRED		12"ÖAK 10 OAK TLN	R06618-005-021-000 A PROPERTIES LLC RENT ZONING: R-15 SQDE: 958-UNUSED LAND
		WILLINGTON Public Services Public Services APPROVED STORMWATER MANAGE Date: Permit # Signed:	ROLINA Division EMENT PLAN Traffic	Deproved Construction Plan Name Date



Stormdrain and Grading Plan

DRAWING TITLE

PHASEPRELIMINARY
ISSUE FOR BID
MAY 15, 2018DATEMAY 15, 2018PROJECTPINE VALLEY BRANCH
2016005VA PROJECT #2016005SCO ID #-

NEW HANOVER COUNTY

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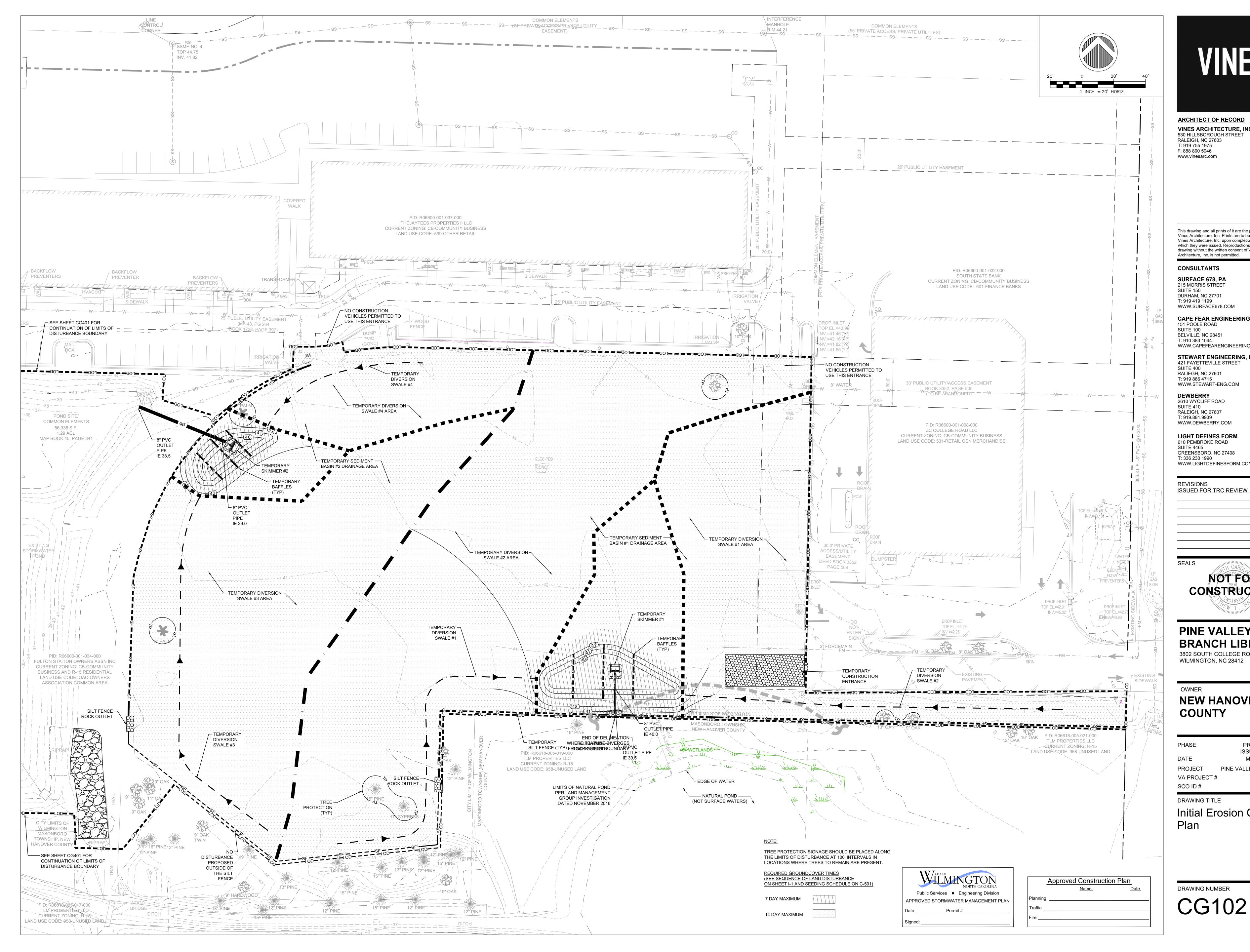
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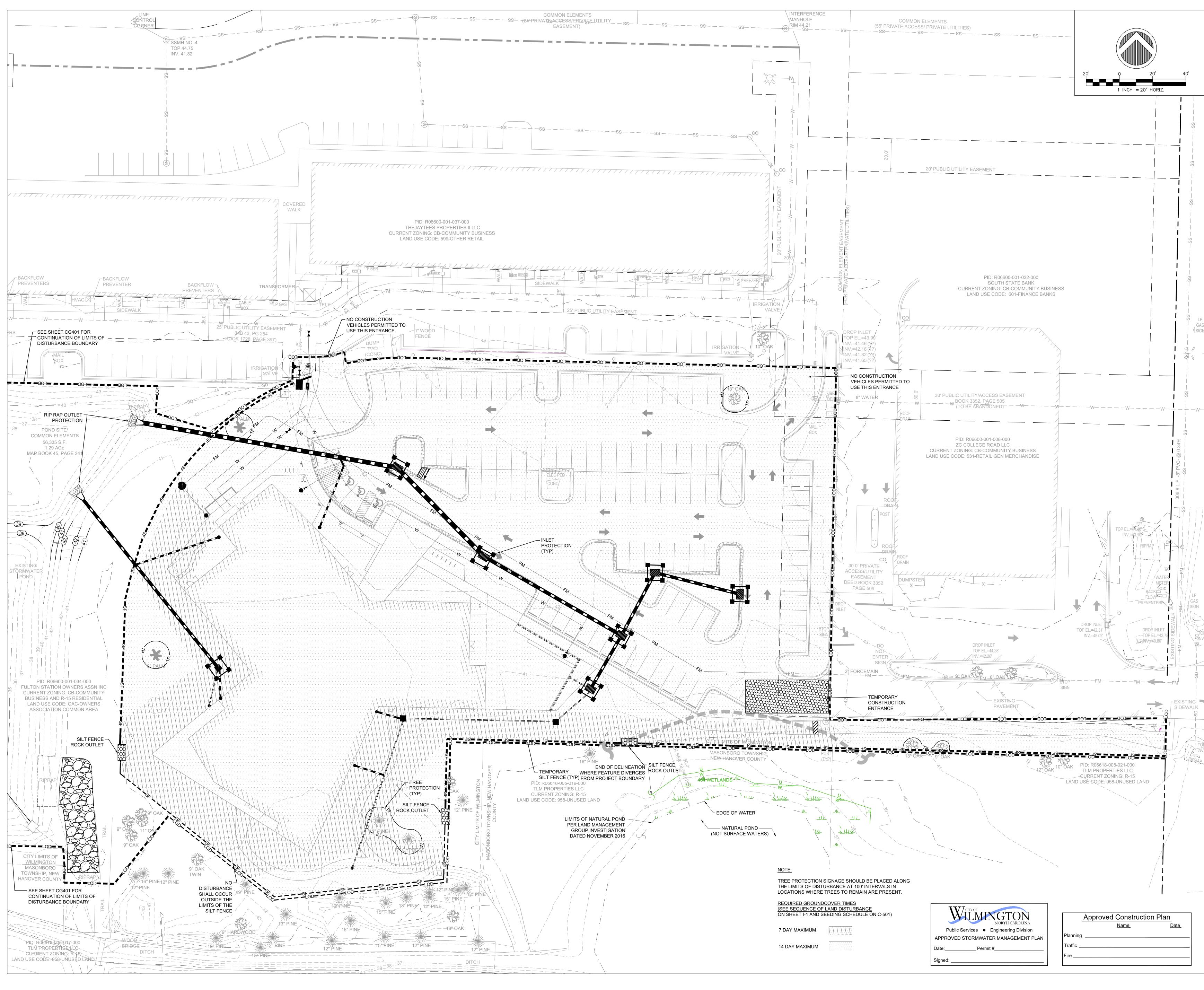


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DRAWING NUMBER





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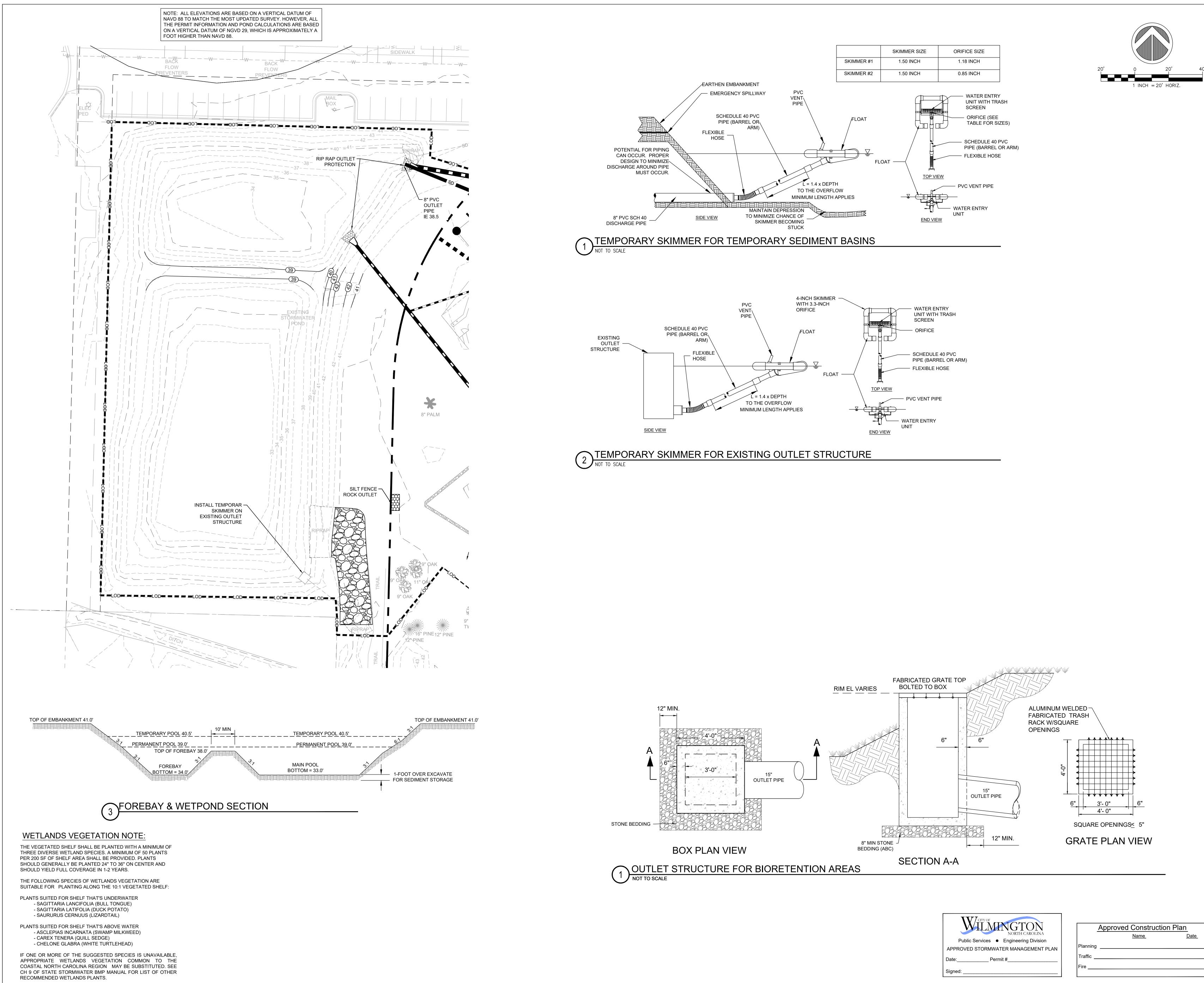
DRAWING TITLE Final Erosion Control

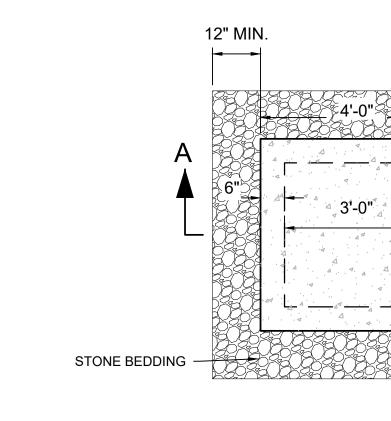
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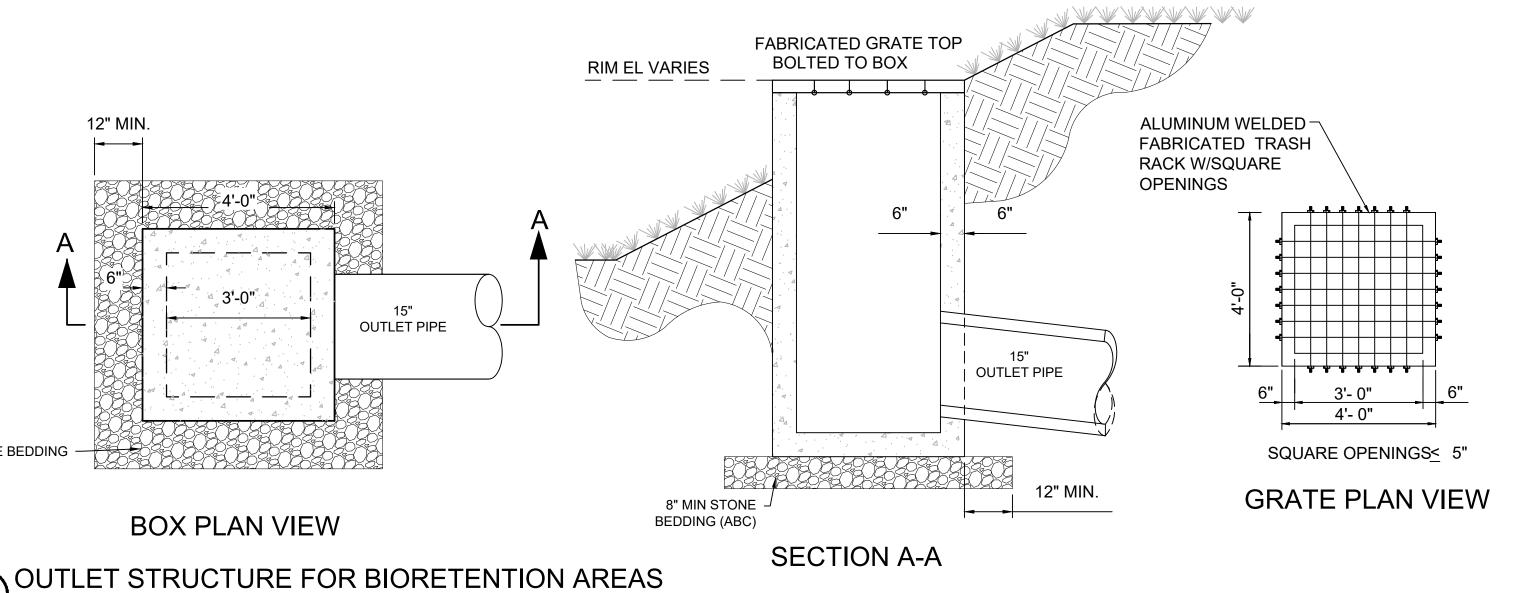
CG103

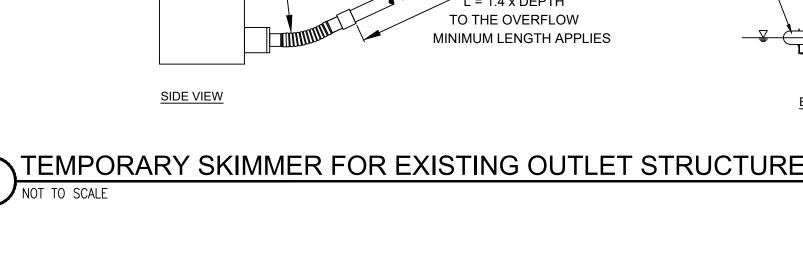
Plan

MAY 15, 2018 2016005









WILMINGTON NORTH CAROLINA
Public Services
APPROVED STORMWATER MANAGEMENT PLAN
Date: Permit #
Signed:

-	Approved Construction Plan			
	Name	<u>Date</u>		
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affic _				
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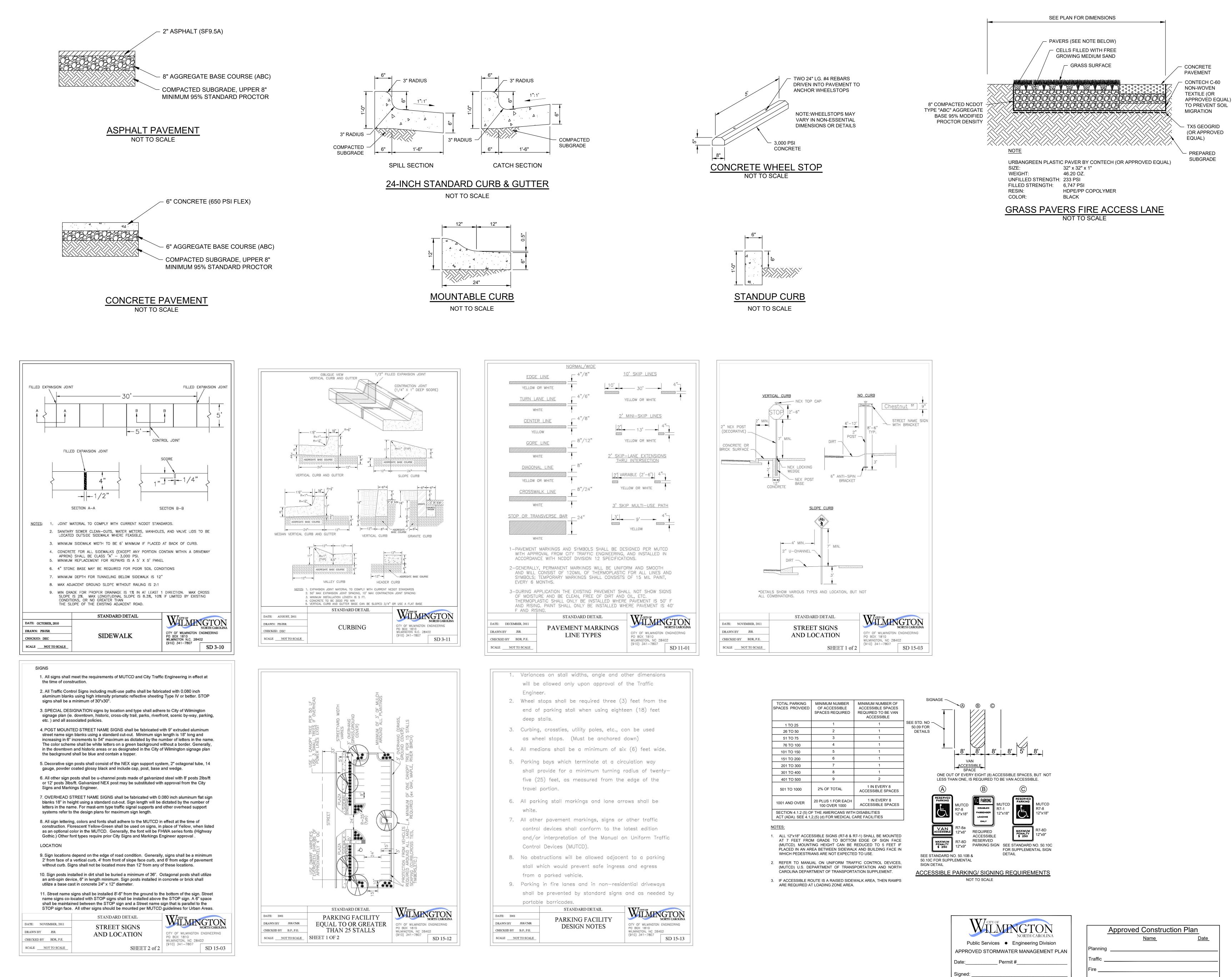


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NG DED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED	MINIMUM NUMBER OF ACCESSIBLE SPACES REQUIRED TO BE VAN ACCESSIBLE	
	1	1	18
	2	1	
	3	1	
	4	1	
	5	1	
	6	1	
	7	1	
	8	1	
	9	2	
	2% OF TOTAL	1 IN EVERY 8 ACCESSIBLE SPACES	
R	20 PLUS 1 FOR EACH 100 OVER 1000	1 IN EVERY 8 ACCESSIBLE SPACES	
(5) OF THE AMERICANS WITH DISABILITIES E 4.1,2,(5) (d) FOR MEDICAL CARE FACILITIES			

Approved Construction Plan			
	Name	Date	
lanning			
raffic			
ire			



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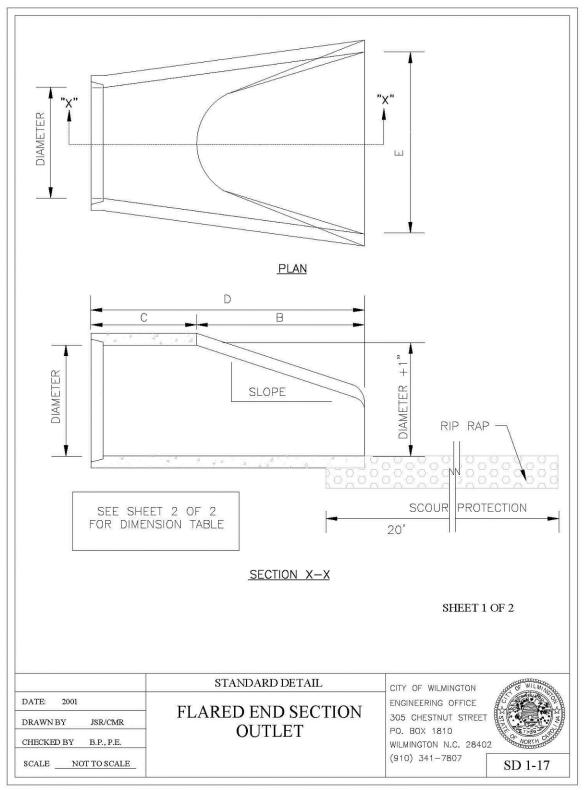
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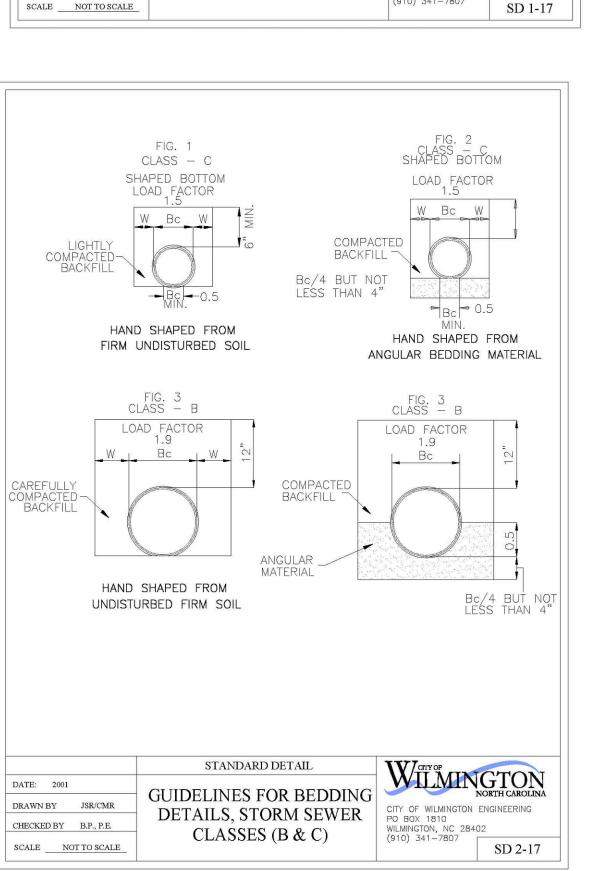
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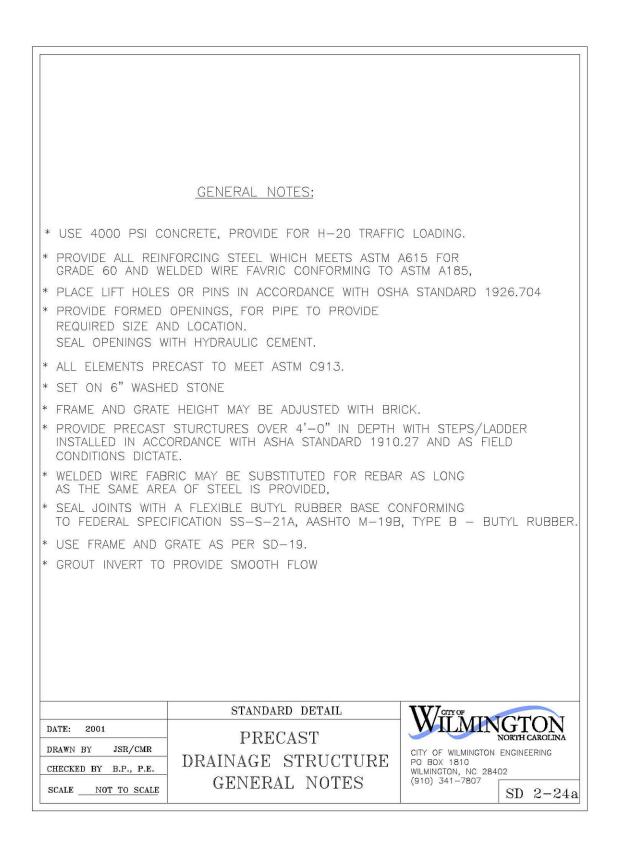
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DRAWING NUMBER

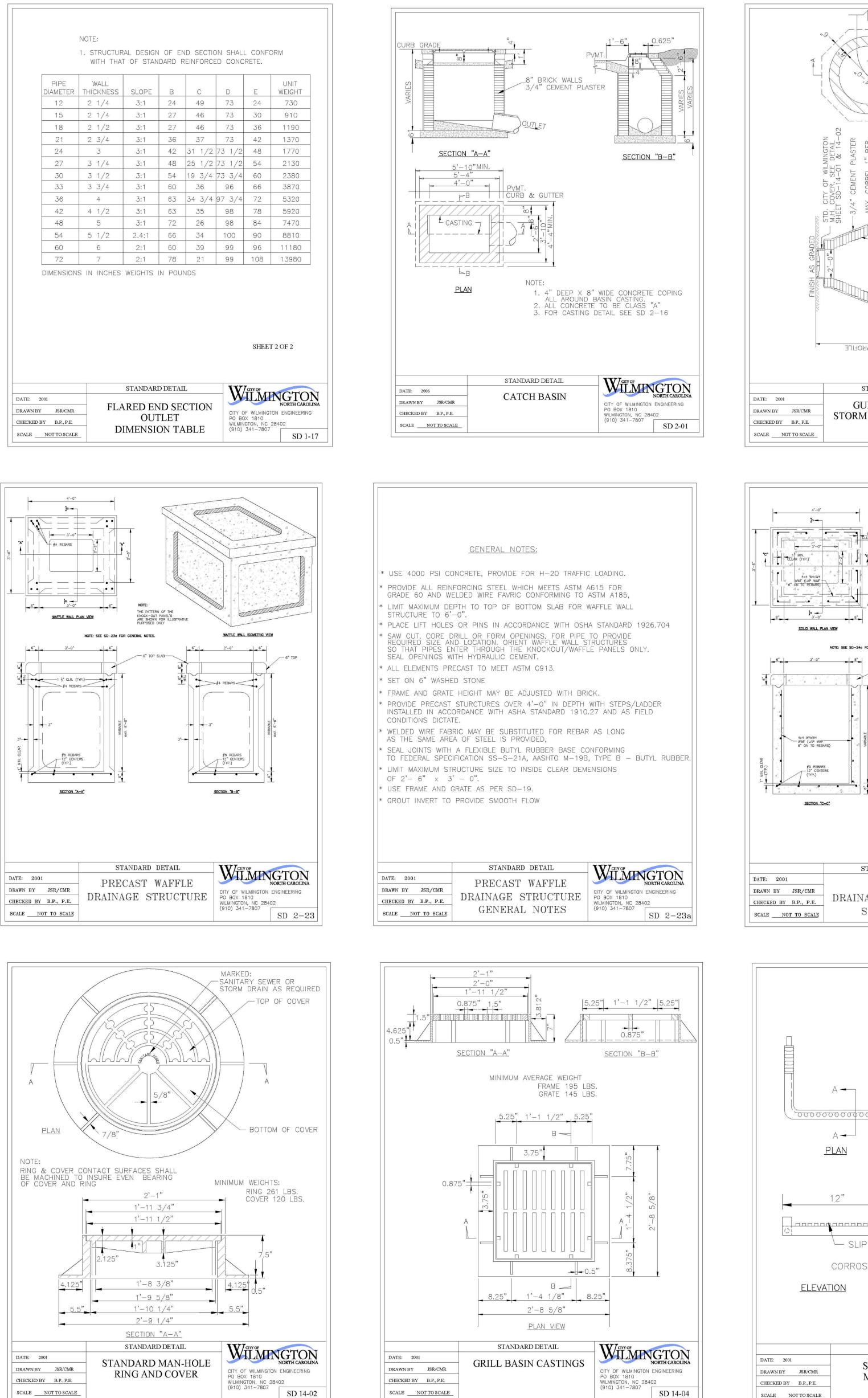


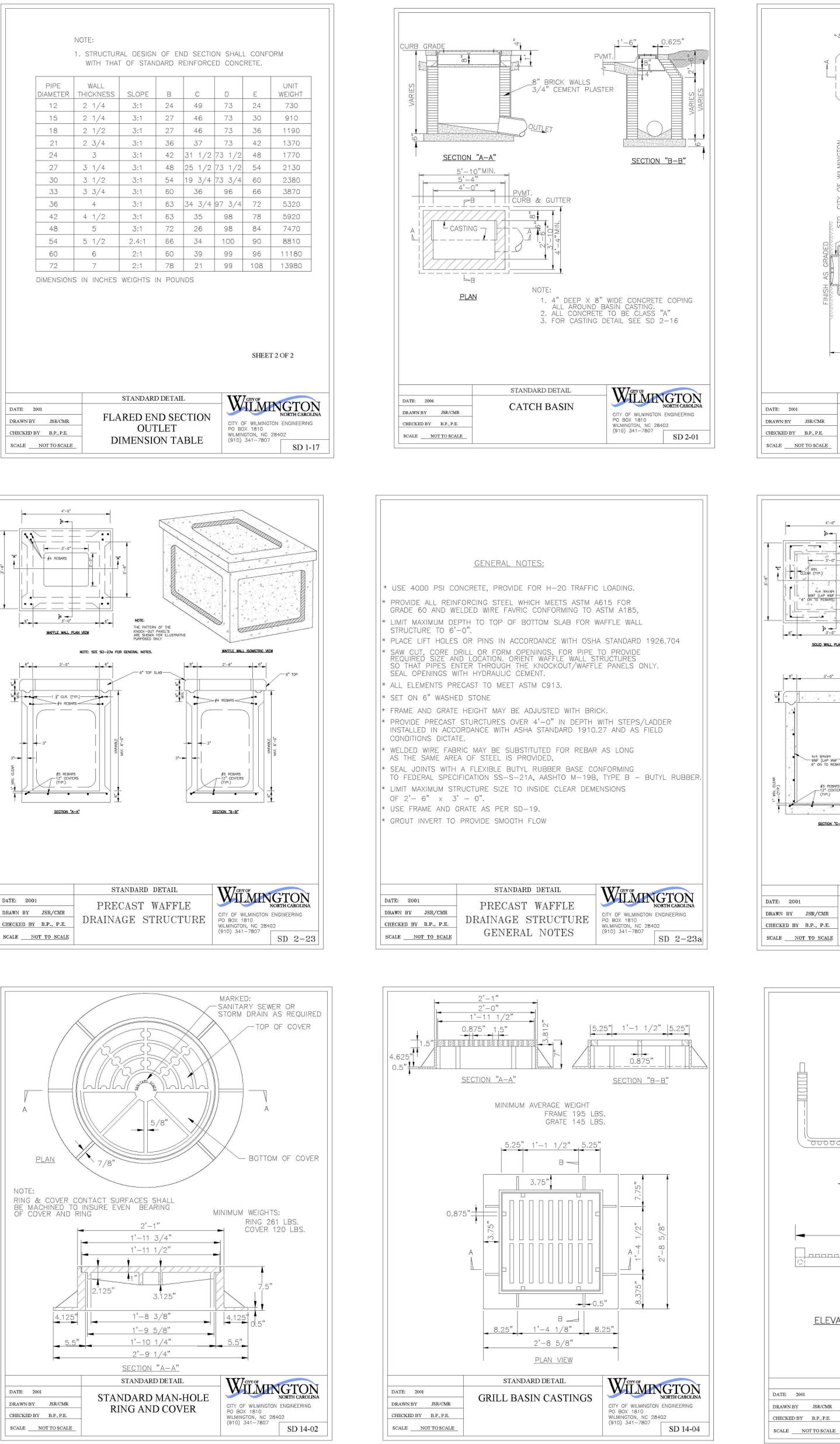


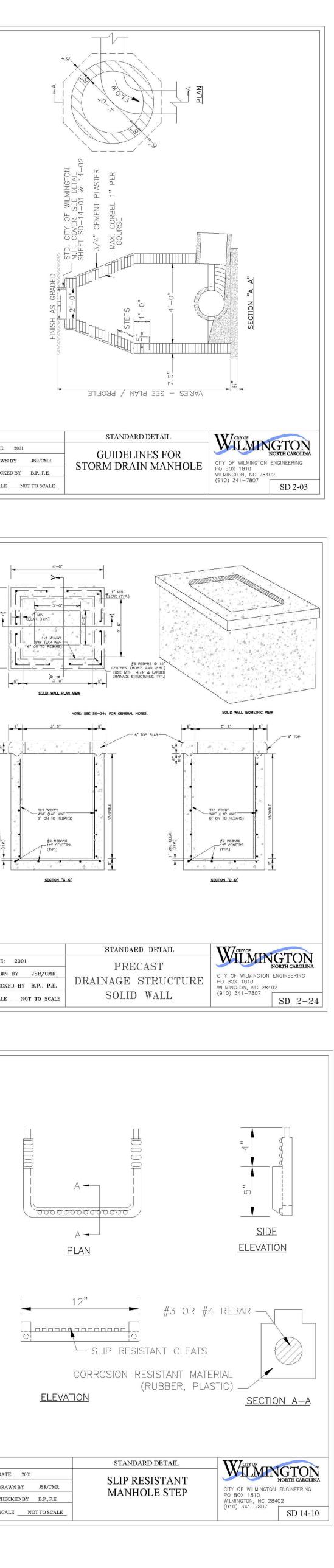




		STANDARI	D DETA
DIMENSION	S IN INCHES	WEIGHTS I	N POU
72	7	2:1	78
60	6	2:1	60
54	5 1/2	2.4:1	66
42	5	3:1	72
42	4 1/2	3:1	63
33	4	3:1 3:1	63
30	3 1/2 3 3/4	3:1	54 60
27	3 1/4	3:1	48
24	3	3:1	42
21	2 3/4	3:1	36
18	2 1/2	3:1	27
15	2 1/4	3:1	27
12	2 1/4	3:1	24
PIPE DIAMETER	WALL THICKNESS	SLOPE	В
	NOTE: 1. STRUCTUR WITH THA	AL DESIGN T OF STAN	
	NOTE		







WILMINGTON NORTH CAROLINA

Public Services

Engineering Division APPROVED STORMWATER MANAGEMENT PLAN Date:_____ Permit #_____

Signed:

Approved Construction Plan		
	<u>Name</u>	Date
Planning		
Traffic		
Fire		



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OWNER **NEW HANOVER** COUNTY

PRELIMINARY PHASE ISSUE FOR BID DATE MAY 15, 2018 PINE VALLEY BRANCH PROJECT VA PROJECT # 2016005 SCO ID # DRAWING TITLE

Stormwater Details

DRAWING NUMBER C-501



NCDEQ EROSION CONTROL PLANNING AND DESIGN MANUAL.

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			

NOTE: TEMPORARY SEEDING SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SECTION 6.10 OF THE

CONTRACTOR SHALL HAVE THE ONSITE SOILS TESTED TO DETERMINE THE SPECIFIC NUTRIENT REQUIREMENTS. SUBMIT SOIL TEST RECOMMENDATIONS AND

CONTRACTOR MAY SUBMIT OTHER SPECIES OF TEMPORARY SEED FOR APPROVAL PROVIDED SPECIES ARE IN ACCORDANCE WITH NCDEQ ESCM.

NCDEQ ESCM	TIME OF SEEDING	GRASS TYPE	AMOUNT/ ACRE	FERTILIZ ACF	
NO. 1CP (WELL TO POORLY DRAINED SOILS W/ GOOD MOISTURE RET; LOW MAINTENANCE)	15 FEB - 30 APR OR 01 SEPT - 31 OCT	TALL FESCUE PENSACOLA BAHIAGRASS SERICEA LESPEDEZE KOBE LESPEDEZA	80 LBS 50 LBS 30 LBS 10 LBS	1,000 LBS	10-10-10 *
NO. 2CP (POORLY DRAINED SOILS W/ GOOD MOISTURE RET; HIGH MAINTENANCE)	15 FEB - 30 APR AND 01 SEPT - 31 OCT	TALL FESCUE RYE (GRAIN)	200 LBS 25 LBS	1,000 LBS	10-10-10 *
NO. 4CP (WELL DRAINED SANDY LOAMS TO DRY SANDS; LOW-MED MAINTENANCE)	01 MAR - 31 JUNE	CENTIPEDEGRASS	10-20 LBS 33 BU/AC (SPRIGS)	300 LBS	10-10-10 *
NO. 5CP (WELL DRAINED SANDY LOAMS TO DRY SANDS; LOW MAINTENANCE)	01 APR - 15 JULY	PENSACOLA BAHIAGRASS SERICEA LESPEDEZA COMMON BERMUDAGRASS GERMAN MILLET	50 LBS 30 LBS 10 LBS 10 LBS	500 LBS	10-10-10 *
NOTE: FERTILIZATION RATES ABOVE ARE (GENERAL GUIDANCE BASE	D ON THE NORTH CAROLINA SEDIMEN	ITATION AND EROS	SION CONTROL	MANUAL.

TEMPORARY SEEDING FERTILIZATION/ACRE MAINTENANCE FERTILIZATION/ ACRE TIME OF SEEDING AMOUNT ACRE GRASS TYPE 120 LBS. & RYE (GRAIN) & DEC 1-APR 15 750 LBS. 10-10-10 NA NA LESPEDEZA, KOBE 50 LBS. GERMAN MILLET APR 15-AUG 15 40 LBS. 750 LBS. 10-10-10 NA NA NA AUG 15-DEC 30 RYE (GRAIN) 120 LBS. 1,000 LBS. 10-10-10 NA PERMANENT SEEDING

NOTES

MACHINE, MUST BE TACKED DOWN

AMOUNT/ FERTILIZATION/

MATERIAL RATE PER ACRE QUALITY SHOULD COME FROM WHEAT OR DRY, UNCHOPPED STRAW 2 TONS UNWEATHERED; OATS SPREAD BY HAND OR

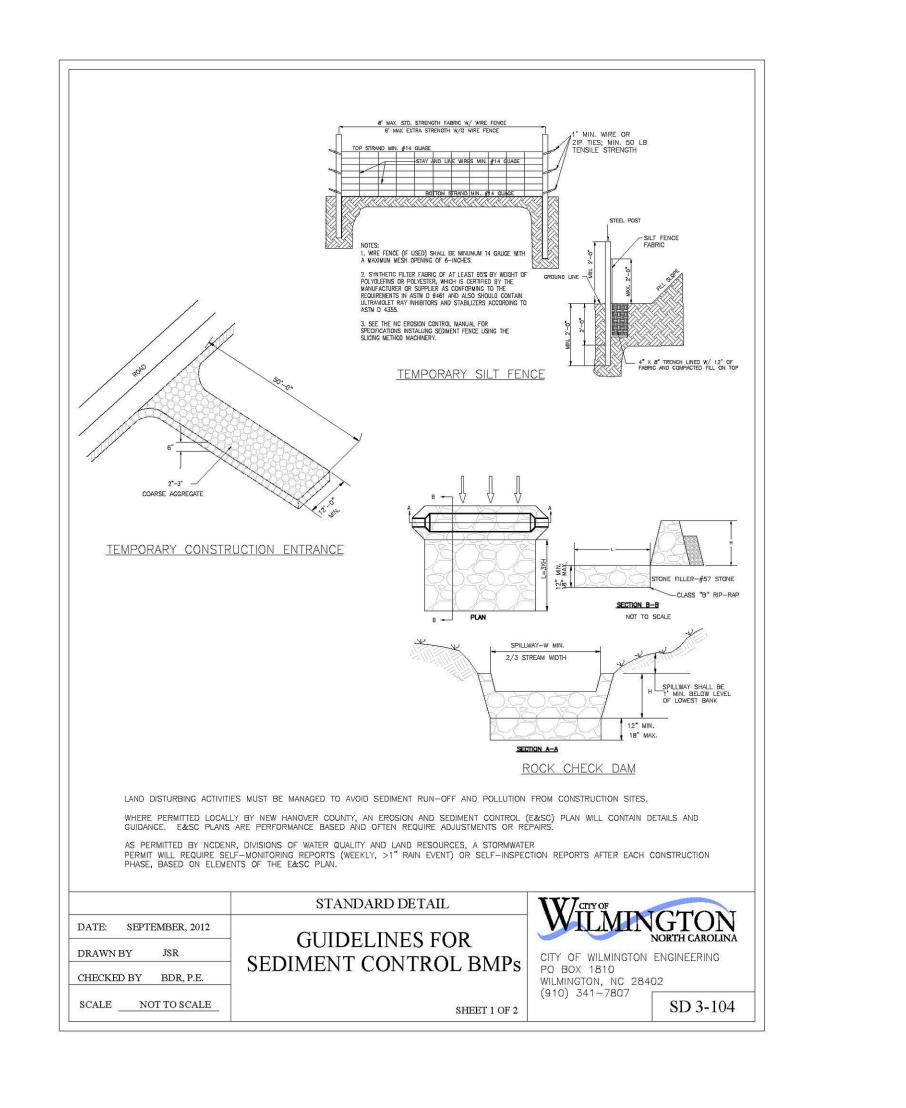
NCDEQ ESCM

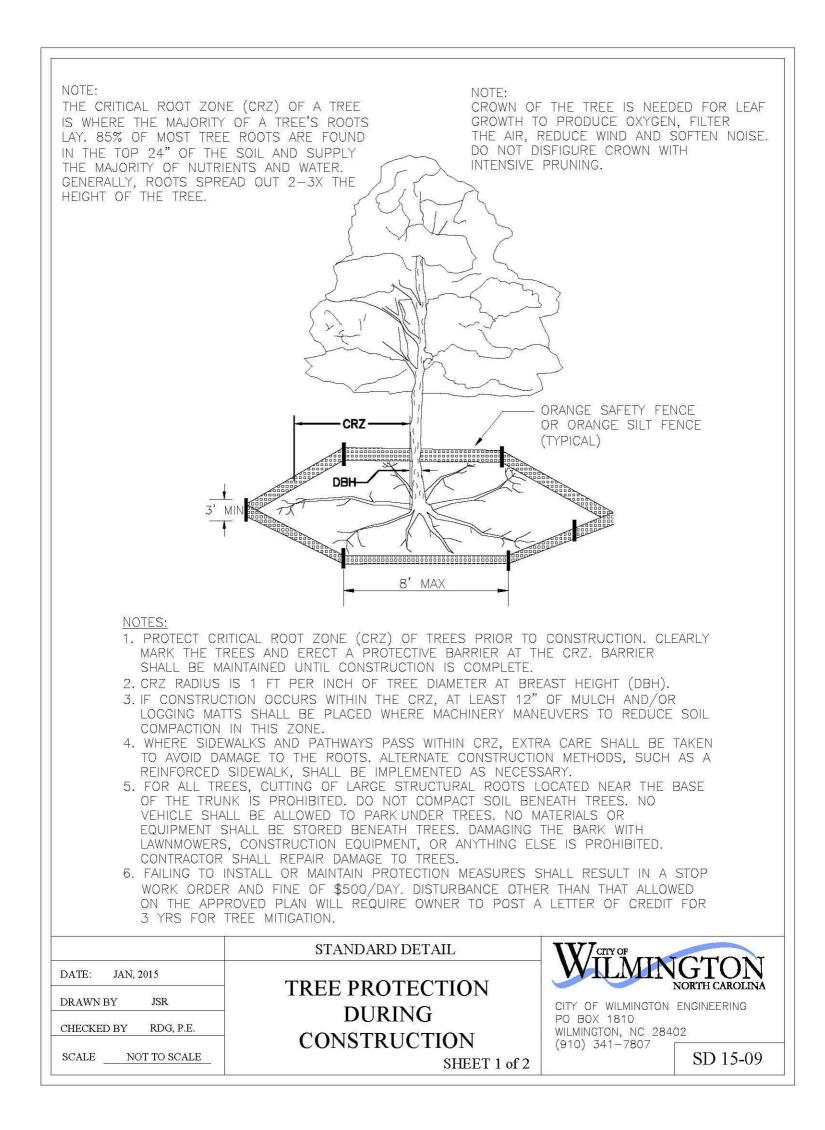
RESULTS FOR ENGINEER REVIEW.

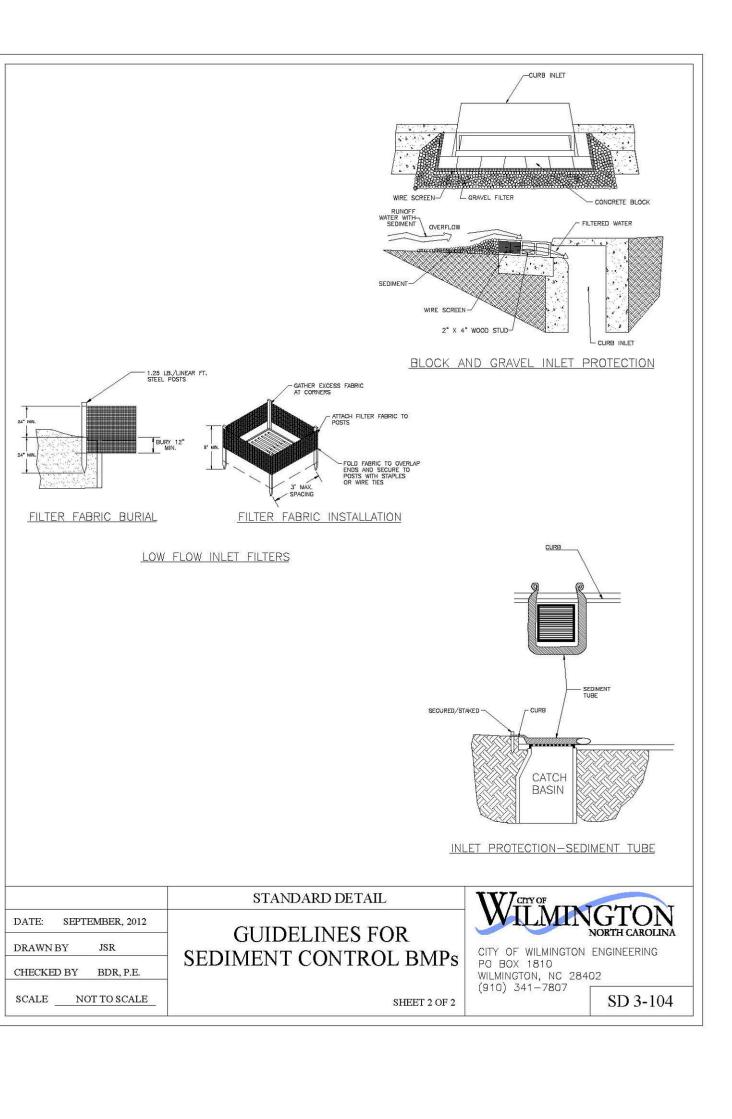
AVOID WEEDS

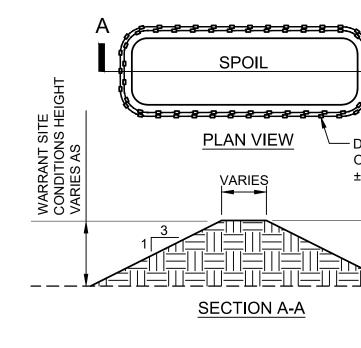
TIME OF

MULCHING MATERIALS AND APPLICATION RATES



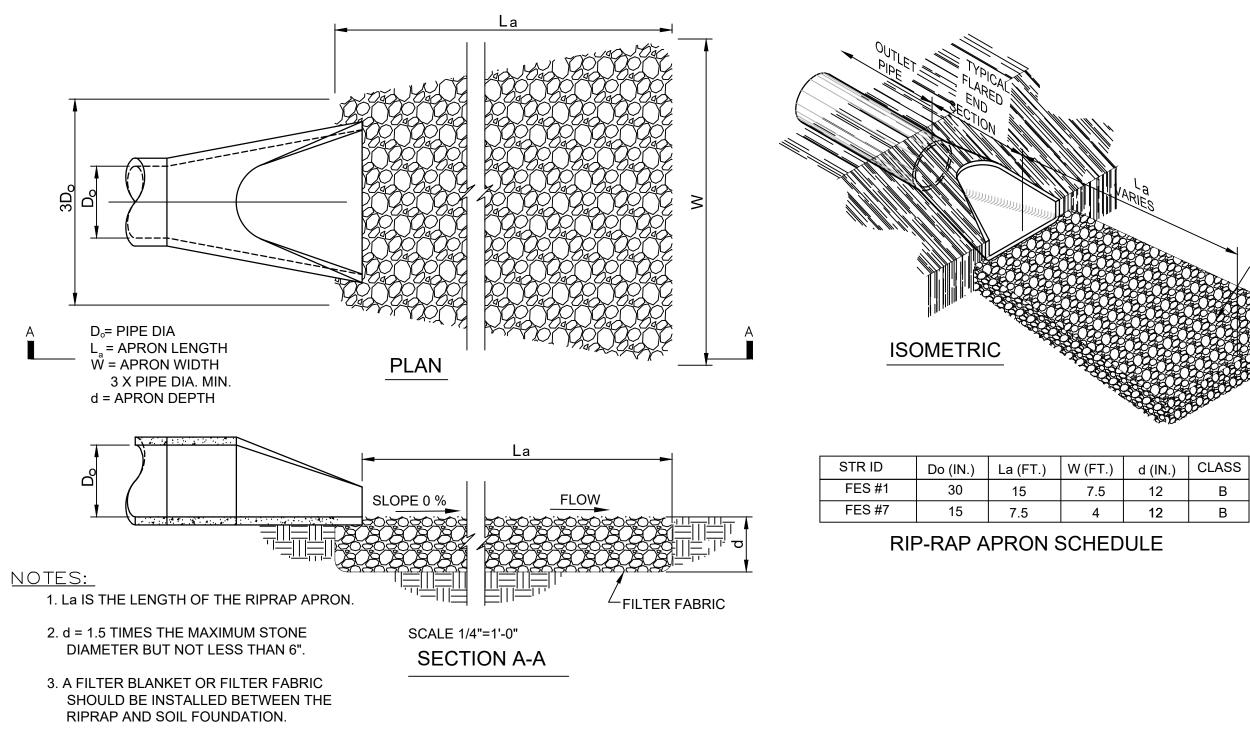


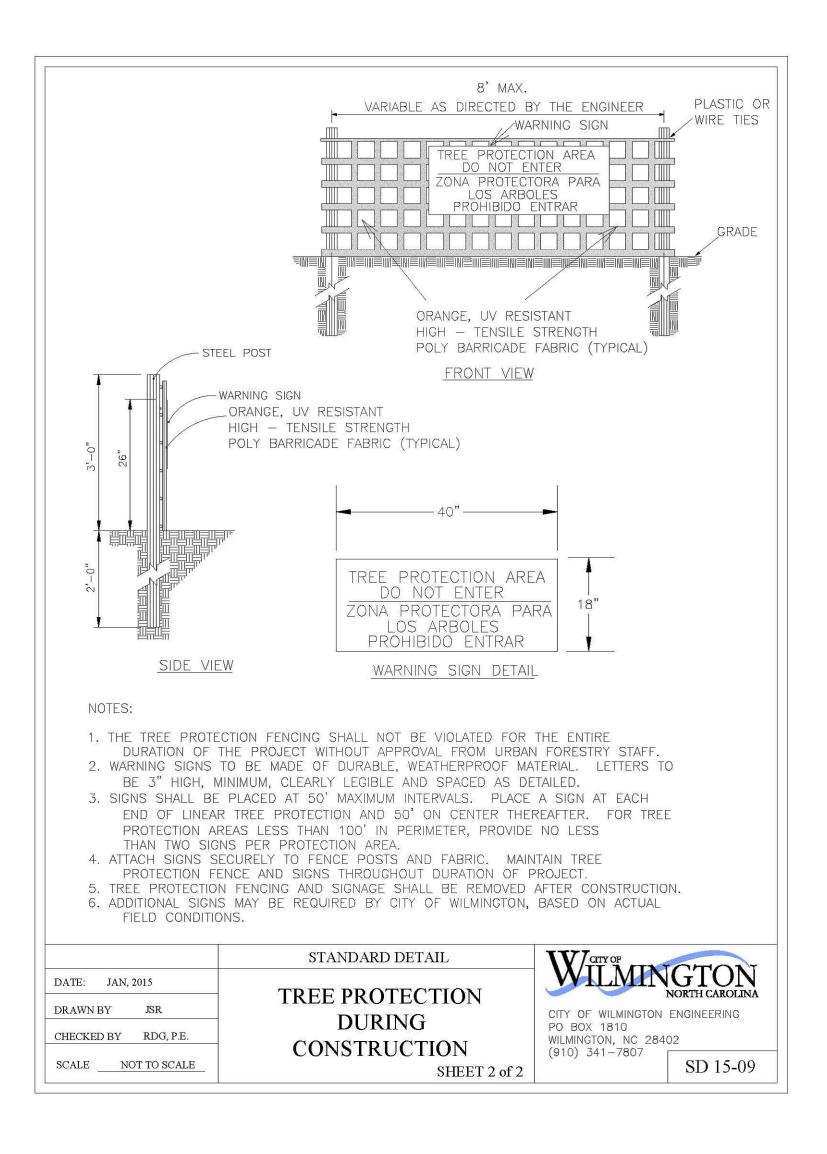




CONSTRUCTION SEQUENCE/PHASING. STOCKPILES SHALL NOT BE LOCATED NEAR PLANNED CUT/FILL LINES, IMMEDIATELY ADJACENT TO PROJECT LIMIT LINE OR IN ANY OTHER AREA THAT MAY INCREASE POTENTIAL FOR EROSION OR NEGATIVELY IMPACT THE SITE

NOT TO SCALE





SILT FENCE -

-#5 WASHED STONE

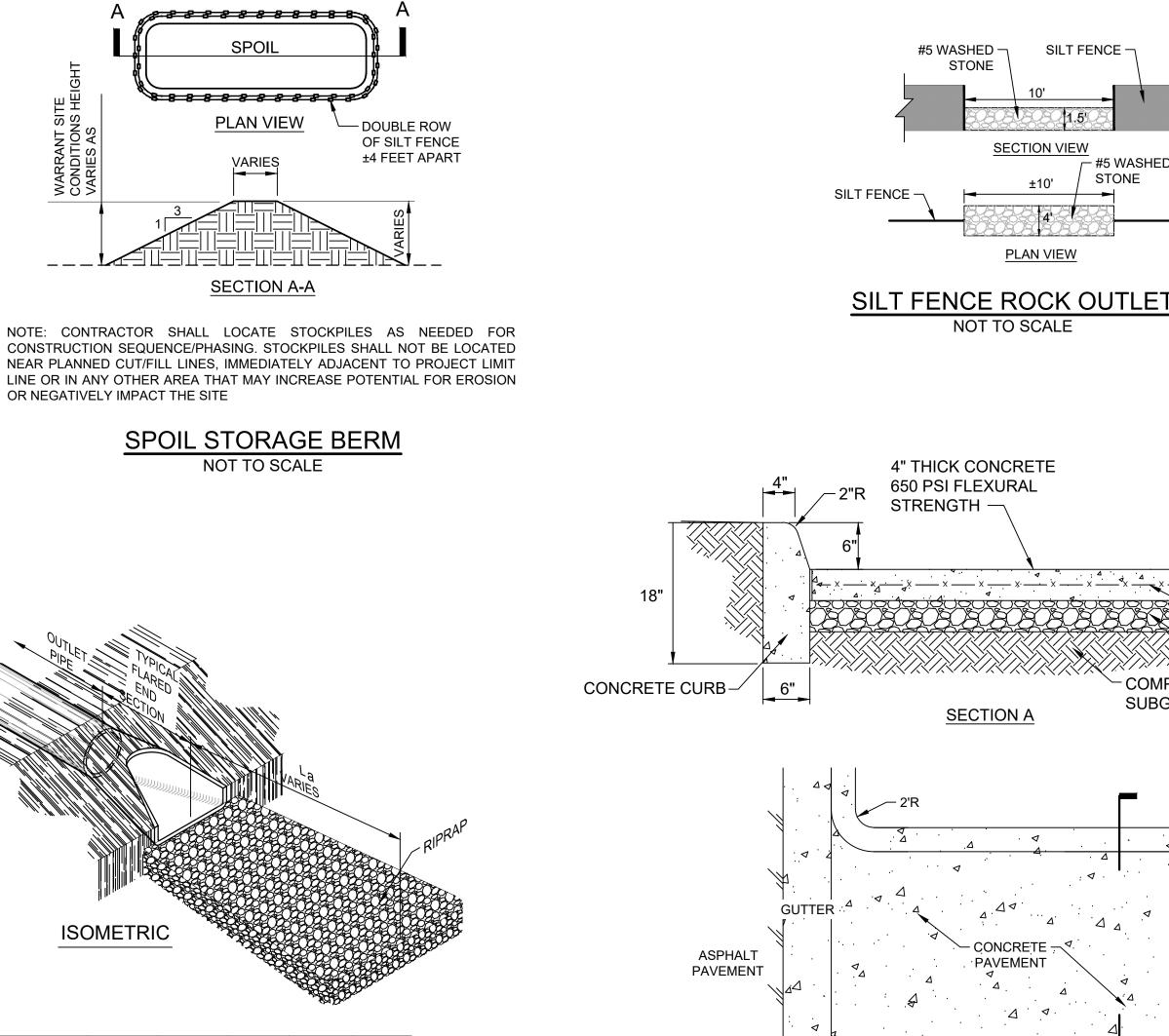
COMPACTED

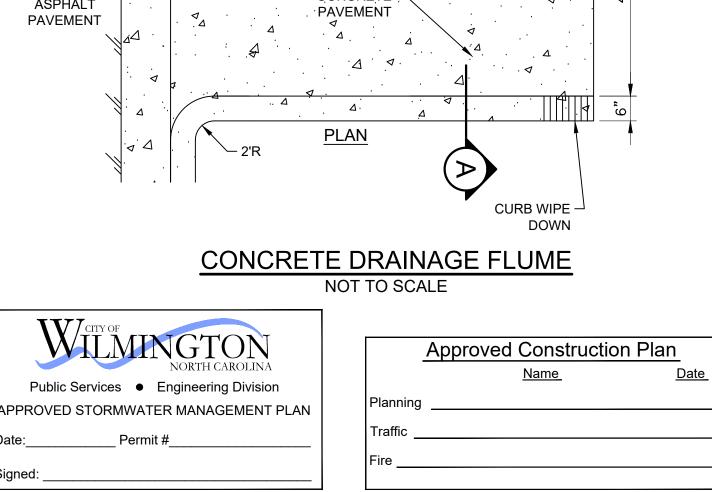
SUBGRADE

SECTION VIEW

±10

PLAN VIEW







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SEALS

- 4" CRUSHED

ABC STONE

6"x6" W2.1xW2.1

WELDED WIRE

FABRIC



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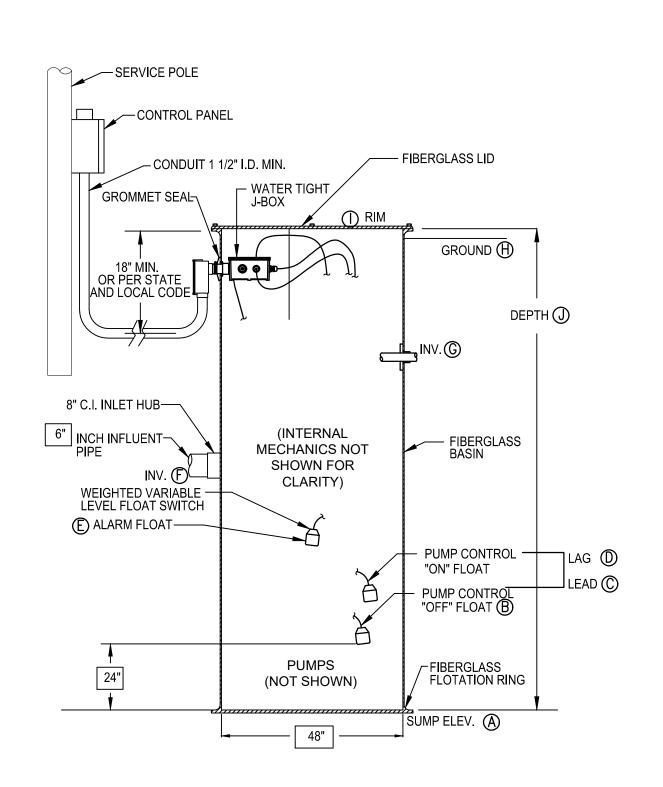
OWNER **NEW HANOVER** COUNTY

PHASE PRELIMINARY ISSUE FOR BID DATE MAY 15, 2018 PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE **Erosion Control**

Details



FLYGT GINRDER PUMP STATION UNIT NOT TO SCALE



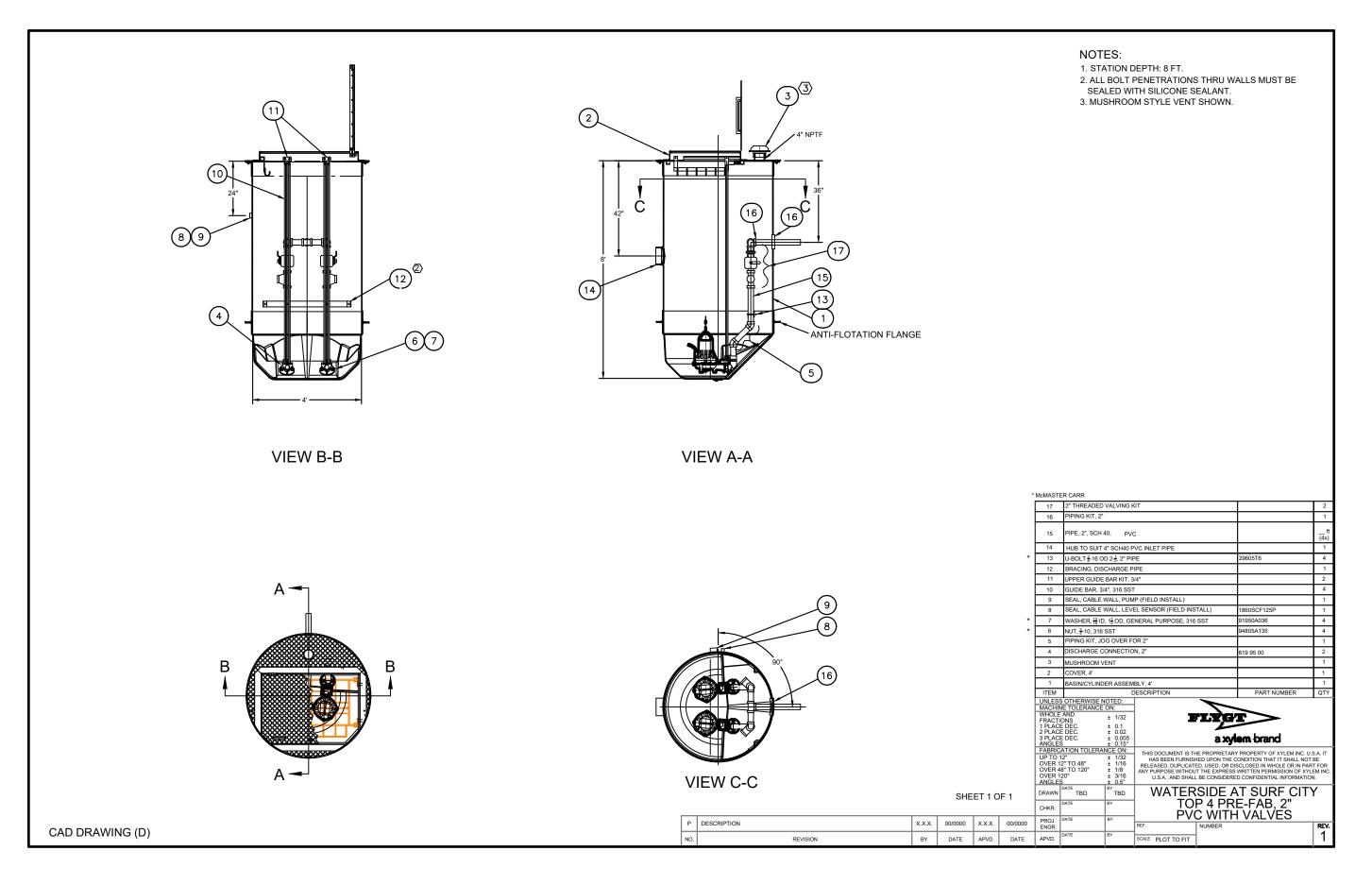
ELEVATION SCHEDULES:

F			UMP STAT	ΊC
A	В	С	D	
33.50	35.00	35.75	36.25	

PUMP STATION DESIGN DATA:

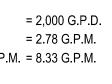
AVG. DAILY SEWAGE FLOW: AVG. FLOW 2,000/720 (12 HR PERIOD) PEAK PUMPING RATE PER PUMP: 3 X 2.78 G.P.M. = 8.33 G.P.M. FORCE MAIN SIZE: 2"

CAPACITY (OPERATING POINT) 45 G.P.M. @ 58.4 T.D.H. PUMP MODEL: FLYGT MP 3068 HT 3~258 IMPELLER DIAMETER 127 MM VOLTAGE: AS REQ'D HP: 2.7



FLYGT PACKAGE PUMP STATION NOT TO SCALE

ON ELEVATION SCHEDULE (FT) E F G H I J 36.75 38.25 38.50 41.25 41.50 8.00





ADDITIONAL PUMP STATION NOTES:

- 1. CONTRACTOR SHALL FURNISH AND INSTALL A MANUAL TRANSFER SWITCH TO ACCOMMODATE START-UP AND OPERATION OF PUMP STATION VIA PORTABLE GENERATOR.
- 2. CONTRACTOR SHALL PROVIDE A PORTABLE GENERATOR ADEQUATELY RATED TO PROVIDE START-UP AND OPERATION OF THE PUMP STATION IN THE ABSENCE OF A LOCAL UTILITY PROVIDER'S ELECTRICAL SUPPLY.
- 3. CONTRACTOR SHALL FURNISH AND INSTALL A TELEMETRY SYSTEM (AUTO DIALER) AND ALL NECESSARY APPURTENANCE AND CONNECTIONS TO ASSURE REMOTE NOTIFICATION OF PUMP STATION STATUS TO OWNER OR OWNER'S REPRESENTATIVE IN ACCORDANCE WITH NCDEQ MINIMUM DESIGN CRITERIA FOR PUMP STATIONS (CURRENT EDITION).
- 4. MEASURES TO CONTROL ODOR AND CORROSION MAY BE REQUIRED SINCE THE PUMP STATION IS DESIGNED TO CYCLE AT TWO TIMES PER HOUR. IF DETENTION TIMES CAUSE SEPTIC CONDITIONS OR ODOR ISSUES, COORDINATE WITH THE PROFESSIONAL RESPONSIBLE FOR OPERATION AND MAINTENANCE OF THE GRINDER STATION, AS DEFINED IN THE OPERATION AND MAINTENANCE AGREEMENT THAT ACCOMPANIES THE NCDEQ SEWER PERMIT, TO IDENTIFY NECESSARY CORRECTIVE ACTIONS.

WILMINGTON NORTH CAROLINA
Public Services
APPROVED STORMWATER MANAGEMENT PLAN

Permit #

Date:

Signed

	Approved Construction Plan		
	<u>Name</u>	Date	
lanning			
raffic _			
ire			



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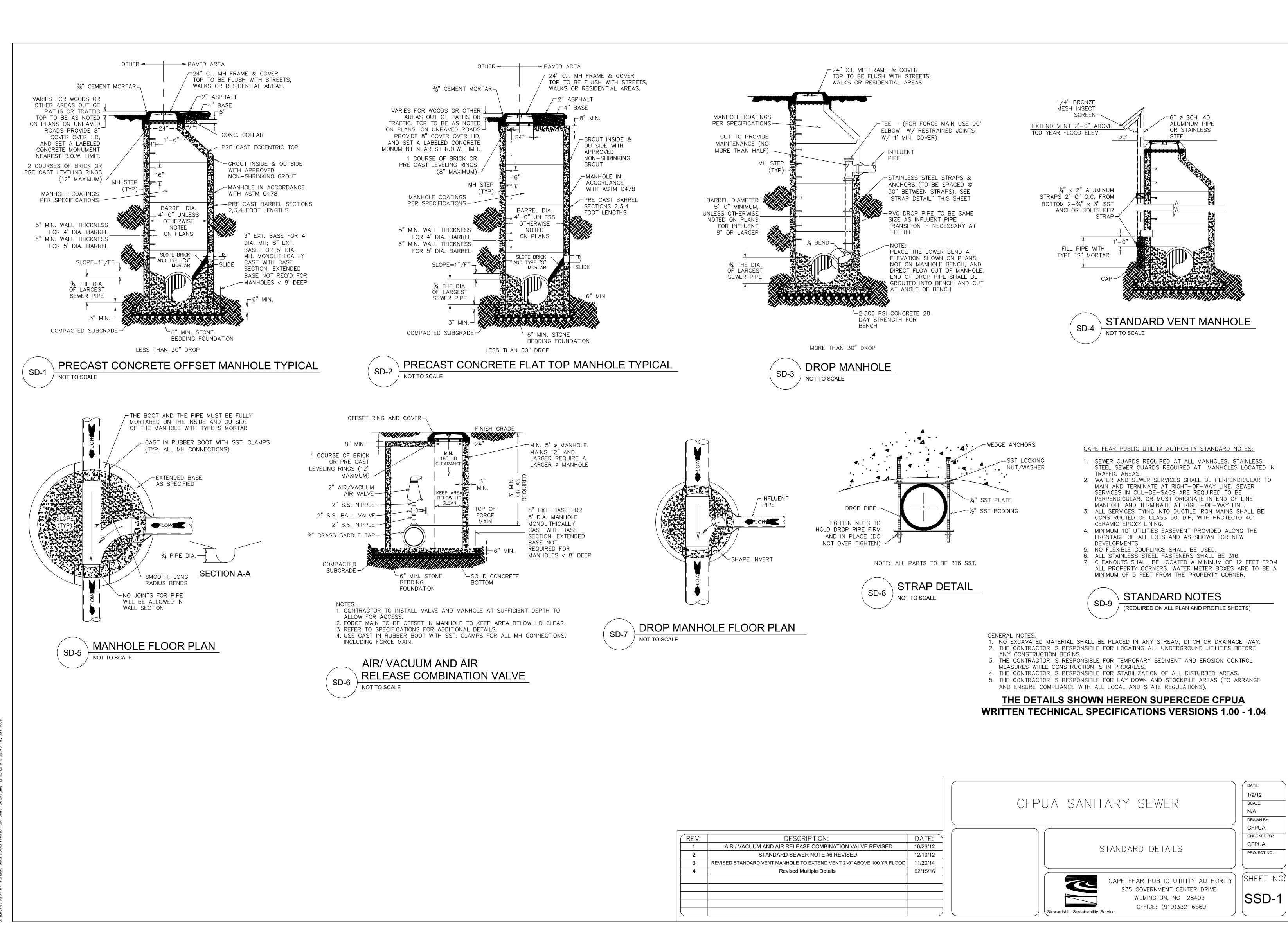
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PRELIMINARY PHASE ISSUE FOR BID MAY 15, 2018 DATE PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE

Pump Station Details





WILM	INGTON NORTH CAROLINA
Public Services	Engineering Division
APPROVED STORMV	VATER MANAGEMENT PLAN
Date:Pe	ermit #
Signed:	

	Approved Construction Plan		
	<u>Name</u> <u>Date</u>		
lanning			
raffic			
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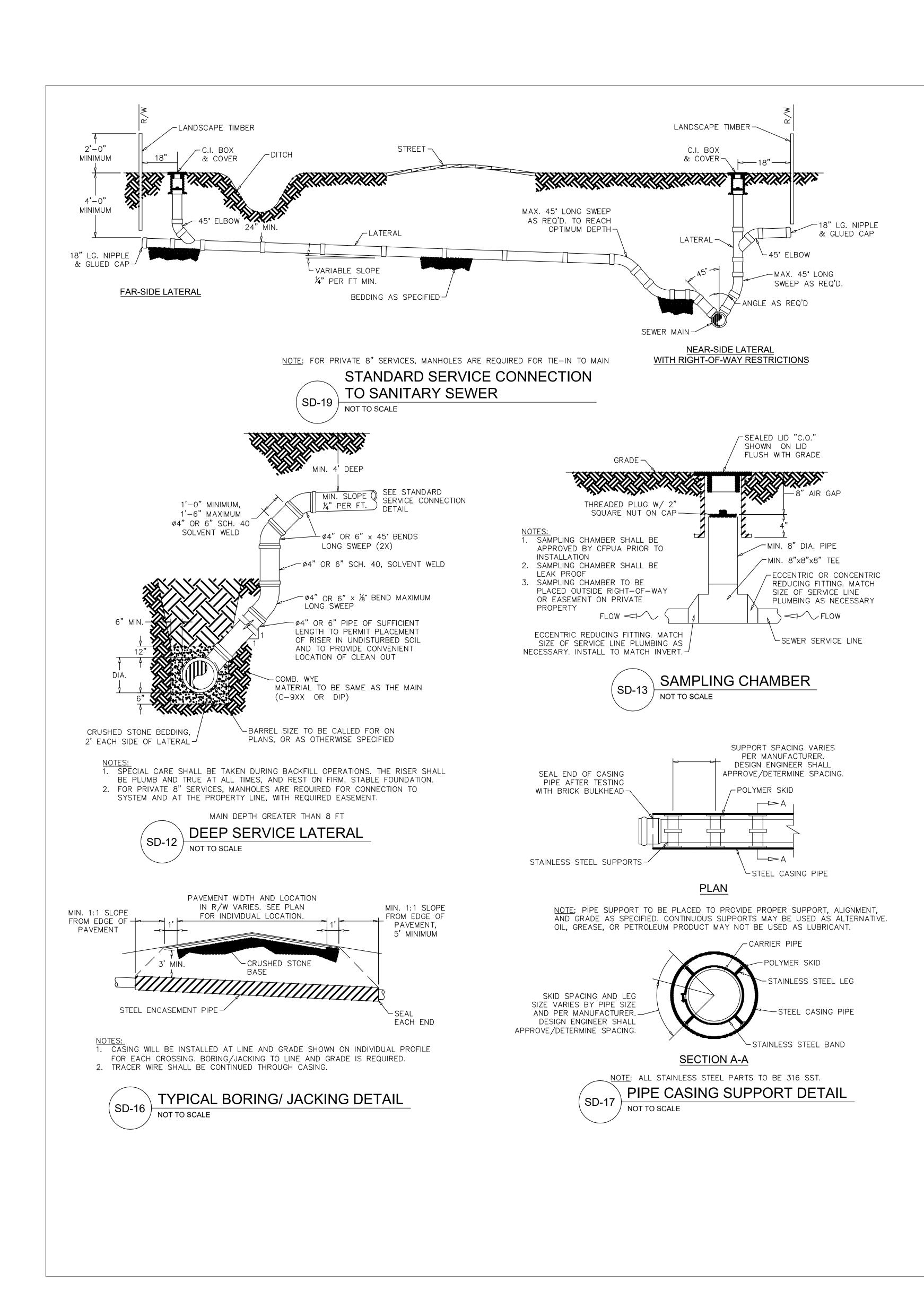


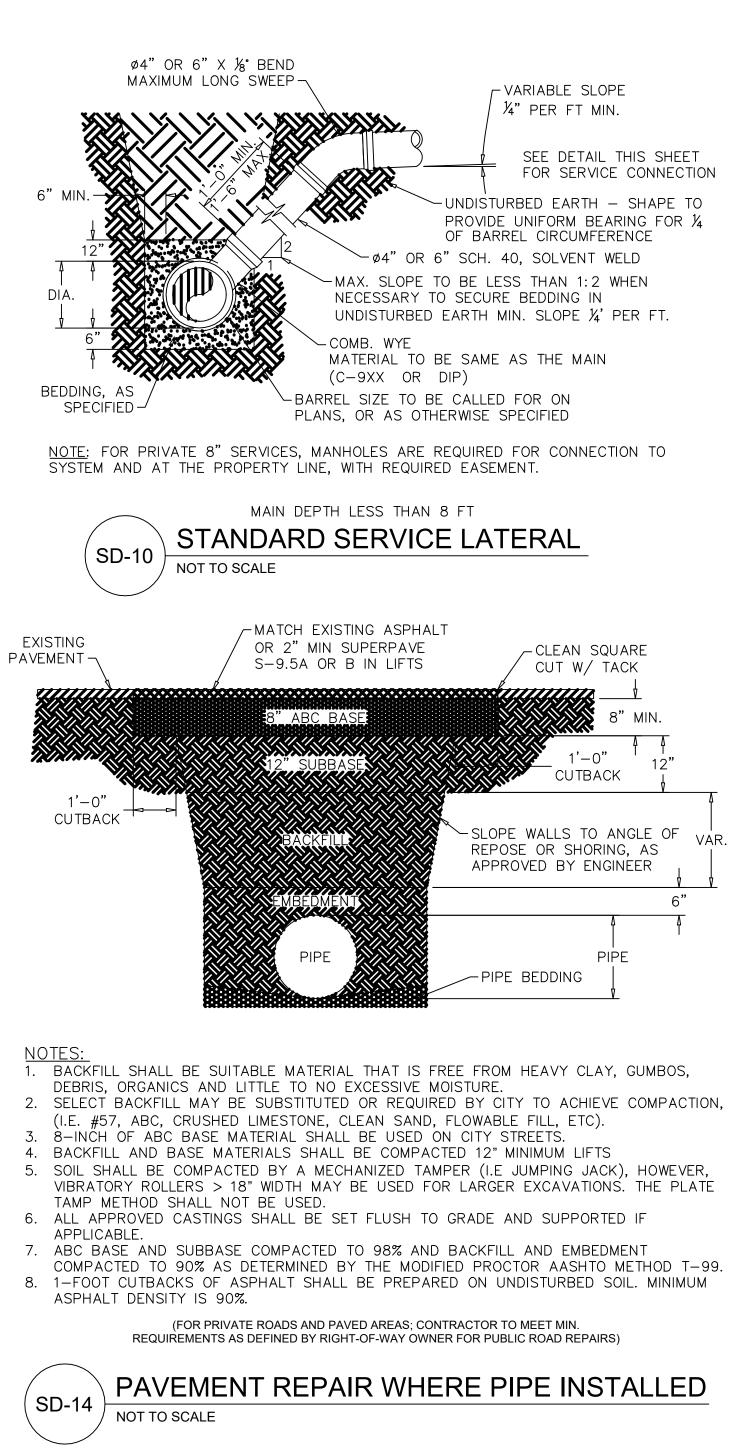
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PHASE PRELIMINARY ISSUE FOR BID DATE MAY 15, 2018 PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID # DRAWING TITLE CFPUA Sanitary Sewer Details

DRAWING NUMBER SSD-1





			CFPUA SANITARY SEWER	DATE: 1/9/12 SCALE: N/A DRAWN BY:
REV: 1 2	DESCRIPTION: SAMPLING CHAMBER REVISED Revised Multiple Details	DATE: 10/26/12 02/15/16	STANDARD DETAILS	CFPUA CHECKED BY: CFPUA PROJECT NO. :
			CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 OFFICE: (910)332-6560	SHEET NO

WILMINGTON	Approved Construction Plan
NORTH CAROLINA Public Services	<u>Name</u>
Date: Permit #	Traffic
Signed:	

AND ENSURE COMPLIANCE WITH ALL LOCAL AND STATE REGULATIONS). THE DETAILS SHOWN HEREON SUPERCEDE CFPUA WRITTEN TECHNICAL SPECIFICATIONS VERSIONS 1.00 - 1.04

- 3. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES WHILE CONSTRUCTION IS IN PROGRESS. 4. THE CONTRACTOR IS RESPONSIBLE FOR STABILIZATION OF ALL DISTURBED AREAS. 5. THE CONTRACTOR IS RESPONSIBLE FOR LAY DOWN AND STOCKPILE AREAS (TO ARRANGE
- ANY CONSTRUCTION BEGINS.
- NO EXCAVATED MATERIAL SHALL BE PLACED IN ANY STREAM, DITCH OR DRAINAGE-WAY.
 THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE

- GENERAL NOTES:

NOT TO SCALE

CLASS 1, 2 OR 3-

PIPE SIZE, AS

INDICATED ON

BEDDING, PER

FOUNDATION MATERIAL

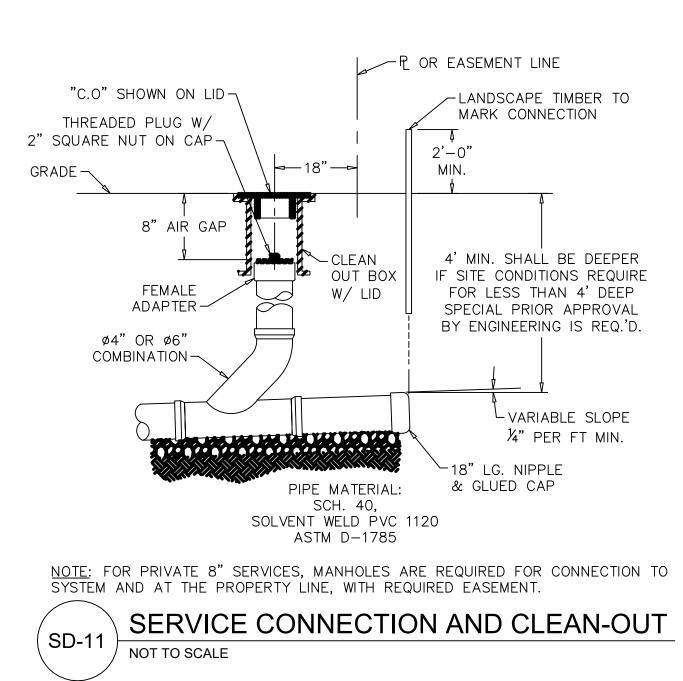
SPECIFICATIONS -

THE PLANS

STABLE -

SD-15

6"MIN.—→



-FINAL GRADE

TYPE 1 OR 2 FINAL BACKFILL OF SOIL OR AS

┝━─ 0.D. ──┥

TYPICAL TRENCH DETAIL

' MIN

OF SOIL OR AS

APPROVED BY

ENGINEER



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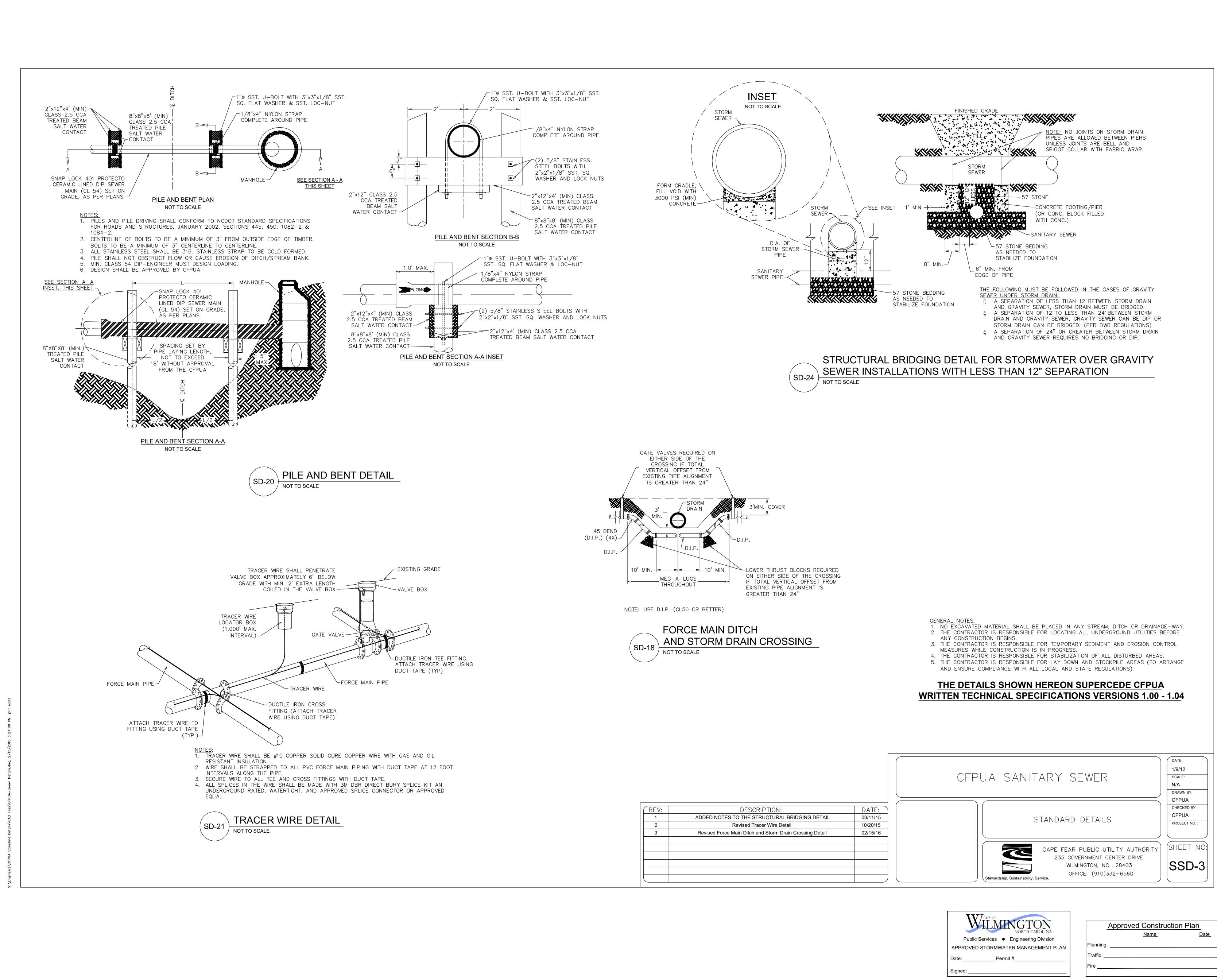
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DRAWING NUMBER

SSD-2



REV:	DESCRIPTION:
1	ADDED NOTES TO THE STRUCTURAL BRIE
2	Revised Tracer Wire Detail
3	Revised Force Main Ditch and Storm Drain C



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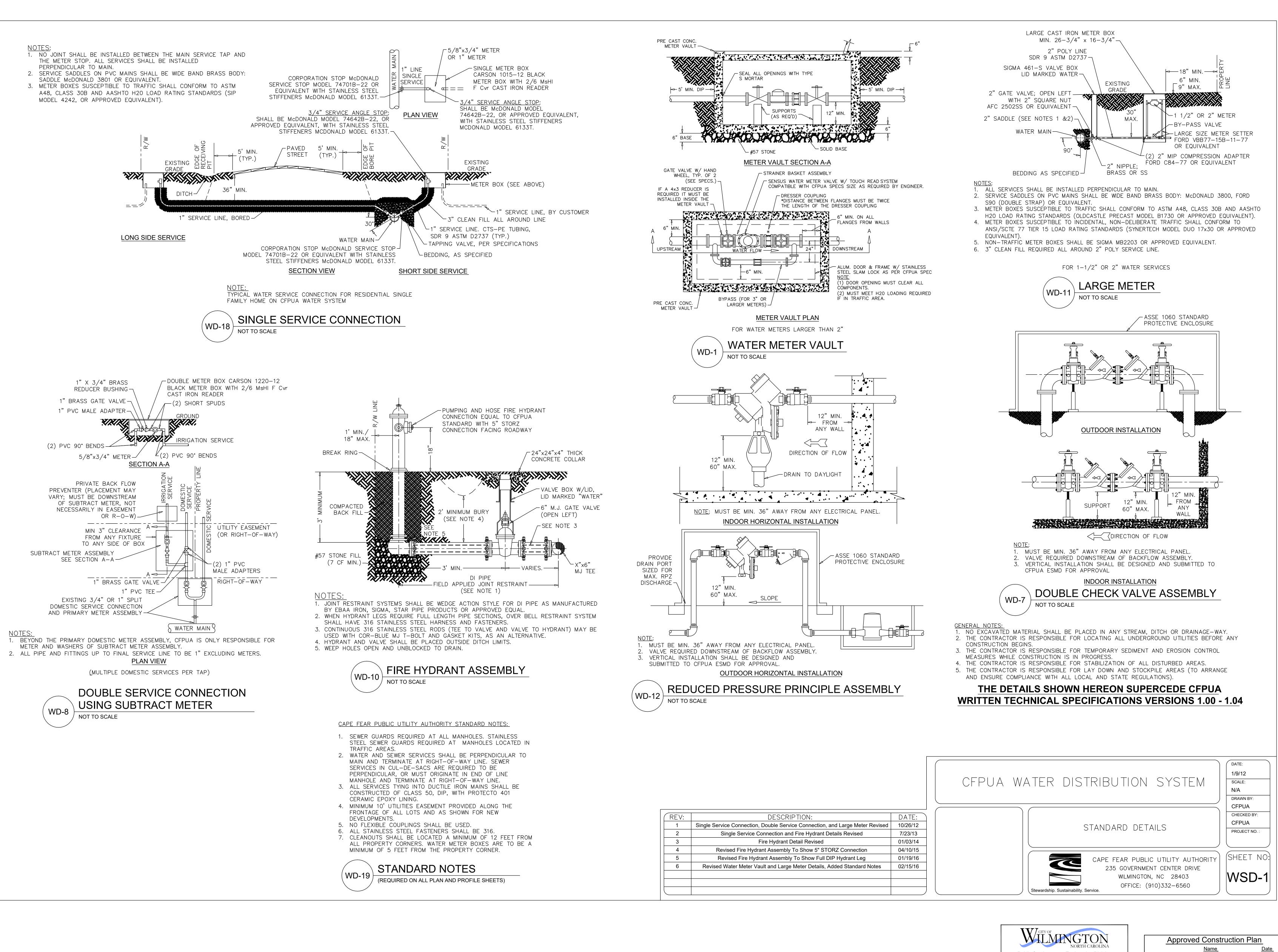
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DRAWING NUMBER

SSD-3



(REV:	DESCRIPTION:
1	Single Service Connection, Double Service Connection, and Lar
2	Single Service Connection and Fire Hydrant Details R
3	Fire Hydrant Detail Revised
4	Revised Fire Hydrant Assembly To Show 5" STORZ Co
5	Revised Fire Hydrant Assembly To Show Full DIP Hyd
6	Revised Water Meter Vault and Large Meter Details, Added S



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PHASE DATE

PROJECT

PINE VALLEY BRANCH VA PROJECT #

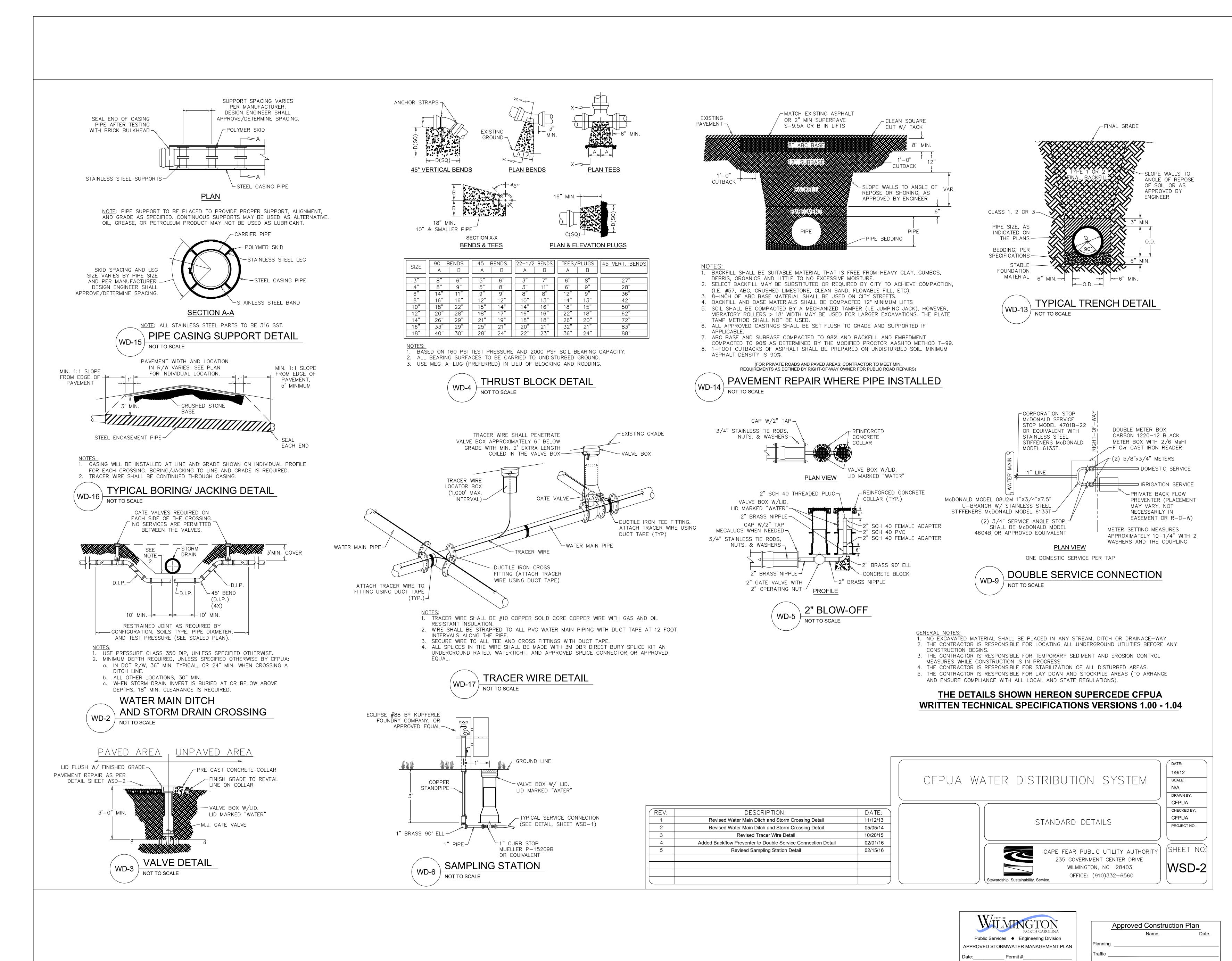
PRELIMINARY ISSUE FOR BID MAY 15, 2018 2016005

SCO ID # DRAWING TITLE **CFPUA Standard** Water Details

DRAWING NUMBER WSD-1

Permit #

APPROVED STORMWATER MANAGEMENT PLAN





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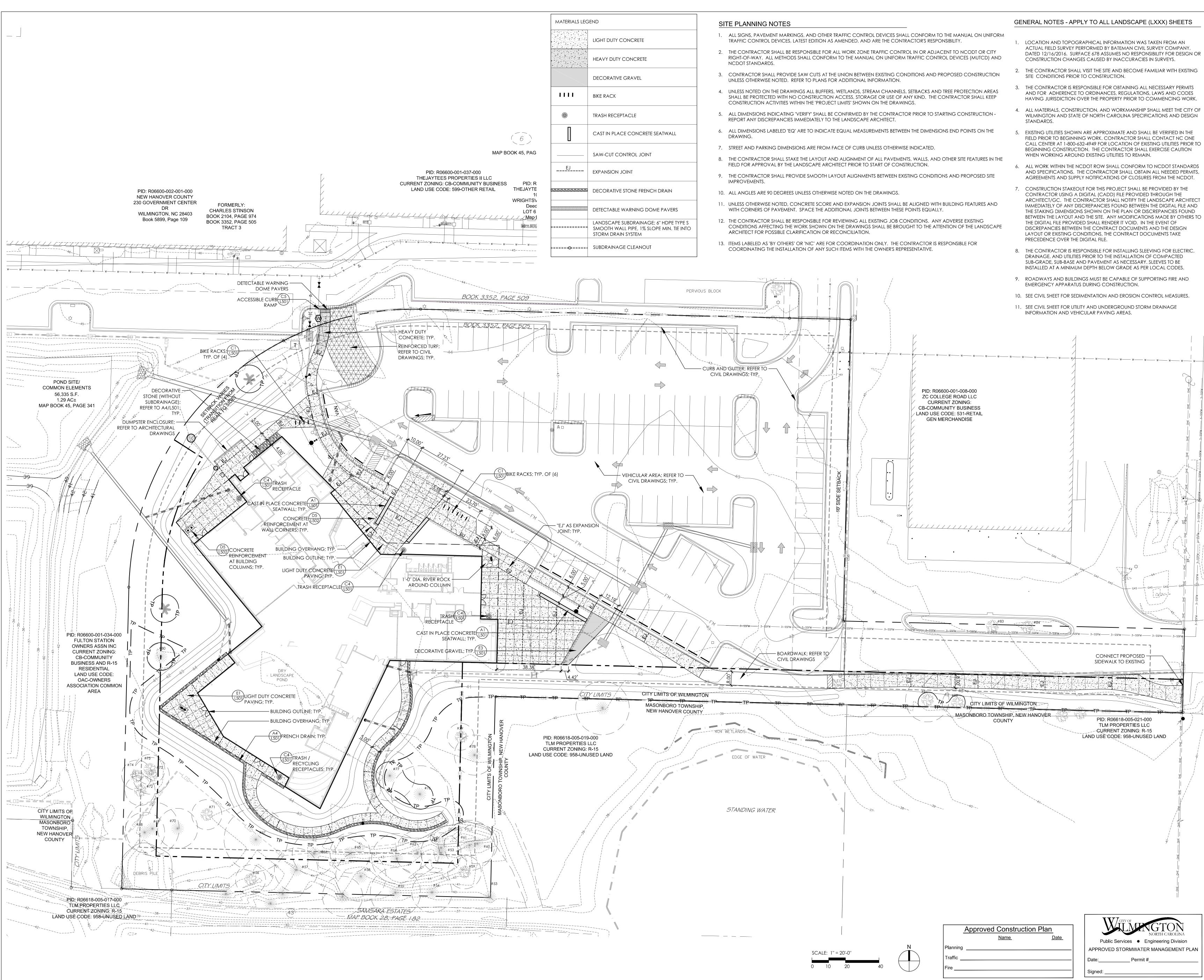
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WSD-2

DRAWING NUMBER

Signed: _

Water Details





DRAWING NUMBER

DRAWING TITLE MATERIALS PLAN

PHASE PRELIMINARY **ISSUE FOR BID** DATE MAY 15, 2018 PROJECT PINE VALLEY BRANCH 2016005 VA PROJECT # SCO ID

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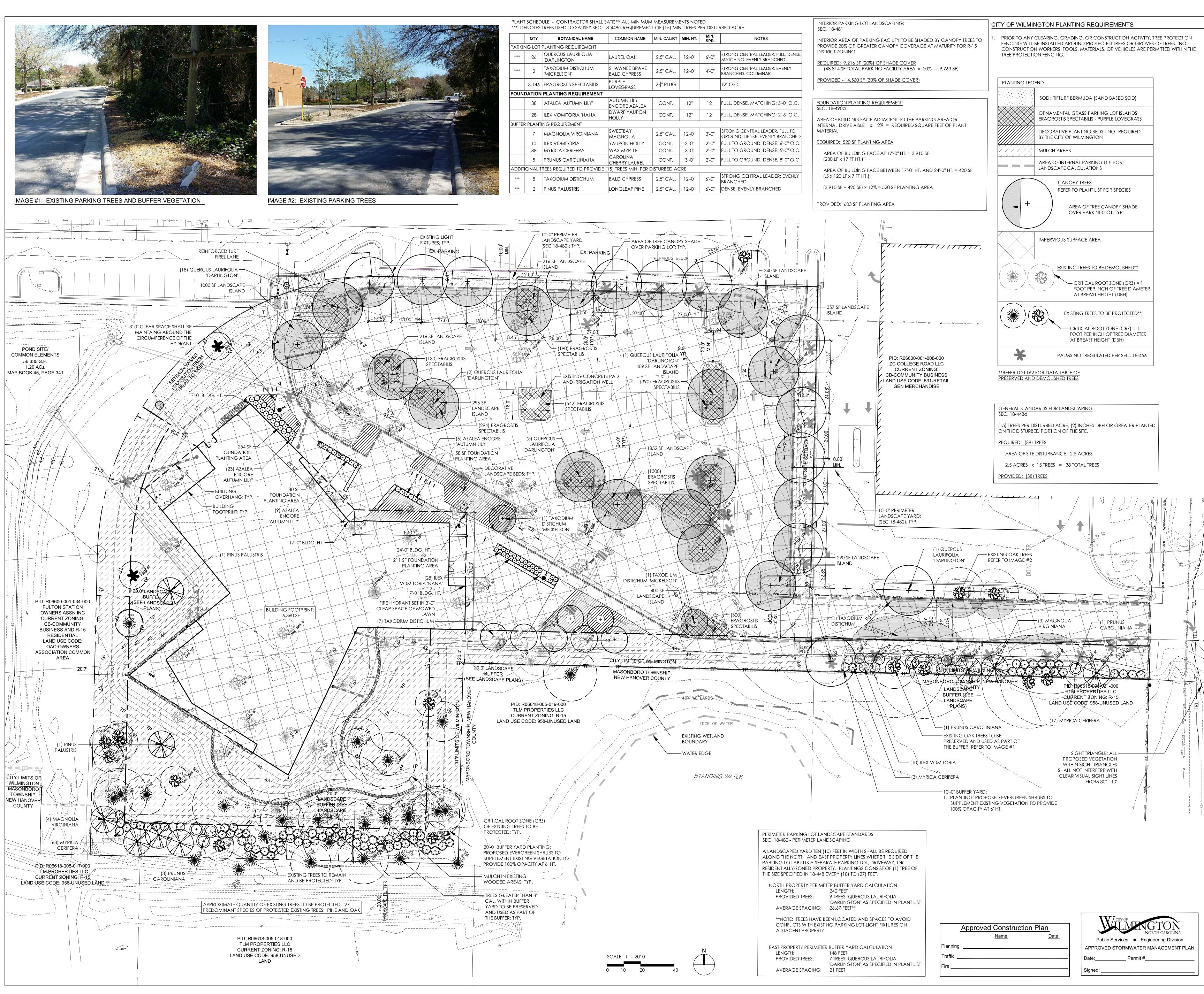
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ARCHITECT OF RECORD





	QTY	BOTANICAL NAME	COMMON NAME	MIN. CAL/RT	MIN. HT.	MIN. SPR.	NOTES
PARKI	NG LOT	PLANTING REQUIREMENT	-				-
***	26	QUERCUS LAURIFOLIA 'DARLINGTON'	LAUREL OAK	2.5" CAL.	12'-0''	6'-0''	STRONG CENTRAL LEADER, FULL, DEM MATCHING, EVENLY BRANCHED
***	2	TAXODIUM DISTICHUM 'MICKELSON'	SHAWNEE BRAVE BALD CYPRESS	2.5" CAL.	12'-0''	4'-0''	STRONG CENTRAL LEADER; EVENLY BRANCHED, COLUMNAR
	3.146	ERAGROSTIS SPECTABILIS	PURPLE LOVEGRASS	2 1/1 PLUG			12" O.C.
FOUN	DATION	PLANTING REQUIREMENT					
	38	AZALEA 'AUTUMN LILY'	AUTUMN LILY ENCORE AZALEA	CONT.	12"	12"	FULL, DENSE, MATCHING; 3'-0" O.
	28	ILEX VOMITORIA 'NANA'	DWARF YAUPON HOLLY	CONT.	12"	12"	FULL, DENSE, MATCHING; 2'-6" O.
BUFFE	R PLANT	ING REQUIREMENT					
	7	MAGNOLIA VIRGINIANA	Sweetbay Magnolia	2.5" CAL.	12'-0''	3'-0''	STRONG CENTRAL LEADER, FULL TO GROUND, DENSE, EVENLY BRANCH
	10	ILEX VOMITORIA	YAUPON HOLLY	CONT.	3'-0''	2'-0''	FULL TO GROUND, DENSE, 6'-0" O
	88	MYRICA CERIFERA	WAX MYRTLE	CONT.	3'-0''	2'-0''	FULL TO GROUND, DENSE, 5'-0" O
	5	PRUNUS CAROLINIANA	CAROLINA CHERRY LAUREL	CONT.	3'-0''	2'-0''	FULL TO GROUND, DENSE, 8'-0" O
ADDIT	IONAL T	REES REQUIRED TO PROVIDE	(15) TREES MIN. PER [DISTURBED AC	CRE		
***	8	TAXODIUM DISTICHUM	BALD CYPRESS	2.5" CAL.	12'-0"	6'-0''	STRONG CENTRAL LEADER; EVEN BRANCHED
***	2	PINUS PALUSTRIS	LONGLEAF PINE	2.5" CAL.	12'-0''	6'-0''	DENSE, EVENLY BRANCHED
					-		



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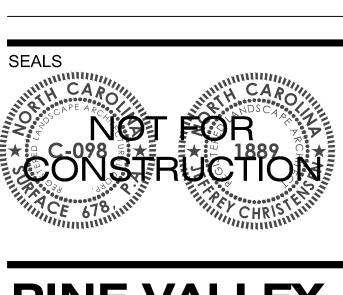
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NEW HANOVER

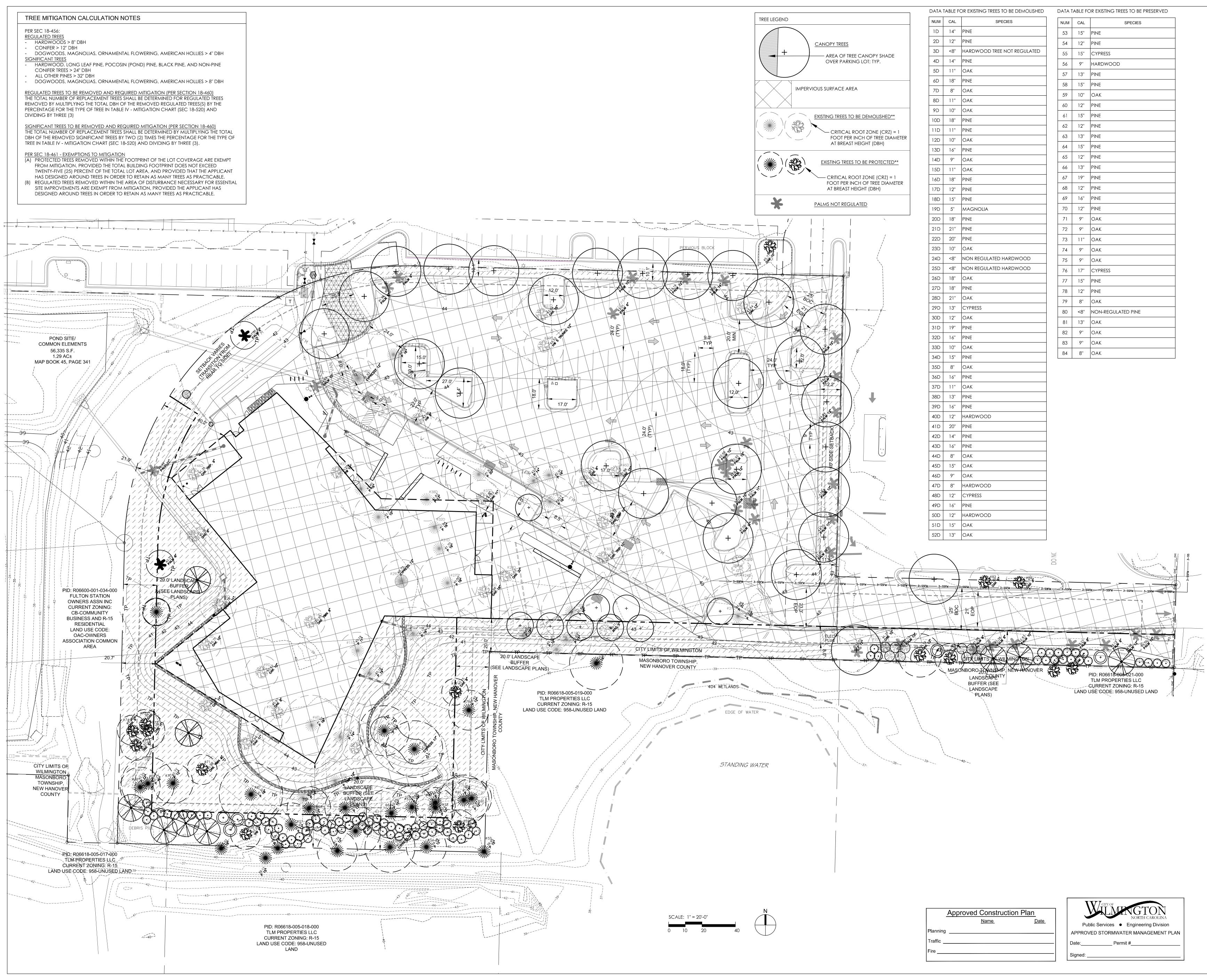
COUNTY

PHASE PRELIMINARY **ISSUE FOR BID** MAY 15, 2018 DATE PROJECT PINE VALLEY BRANCH VA PROJECT # 2016005 SCO ID

DRAWING TITLE PLANTING PLAN **REQUIRED BY THE**

CITY OF WILMINGTON

DRAWING NUMBER .161



DATA	TABLE FO	OR EXISTING TREES TO BE DEMOLISHED
NUM	CAL	SPECIES
1D	14"	PINE
2D	12"	PINE
3D	<8''	HARDWOOD TREE NOT REGULATED
4D	14"	PINE
5D	11"	ОАК
6D	18"	PINE
7D	8"	ОАК
8D	11"	ОАК
9D	10"	ОАК
10D	18"	PINE
11D	11"	PINE
12D	10"	ОАК
13D	16"	PINE
14D	9"	OAK
15D	11"	OAK
16D	18"	PINE
17D	12"	PINE
17D 18D	12	PINE
18D 19D	5"	MAGNOLIA
20D	5 18''	PINE
20D	21"	PINE
22D	20"	PINE
23D	10"	
24D	<8''	
25D	<8"	
26D	18"	OAK
27D	18"	PINE
28D	21"	OAK
29D	13"	CYPRESS
30D	12"	ОАК
31D	19"	PINE
32D	16"	PINE
33D	10"	ОАК
34D	15"	PINE
35D	8"	ОАК
36D	16"	PINE
37D	11"	ОАК
38D	13"	PINE
39D	16"	PINE
40D	12"	HARDWOOD
41D	20''	PINE
42D	14"	PINE
43D	16"	PINE
44D	8''	ОАК
45D	15"	ОАК
46D	9"	ОАК
47D	8"	HARDWOOD
48D	12"	CYPRESS
49D	16"	PINE
50D	12"	HARDWOOD
51D	15"	ОАК
52D	13"	ОАК
		·J

NUM	CAL	SPECIES
53	15"	PINE
54	12"	PINE
55	15"	CYPRESS
56	9"	HARDWOOD
57	13"	PINE
58	15"	PINE
59	10"	ОАК
60	12"	PINE
61	15"	PINE
62	12"	PINE
63	13"	PINE
64	15"	PINE
65	12"	PINE
66	13"	PINE
67	19"	PINE
68	12"	PINE
69	16"	PINE
70	12"	PINE
71	9"	ОАК
72	9"	ОАК
73	11"	ОАК
74	9"	ОАК
75	9"	ОАК
76	17"	CYPRESS
77	15"	PINE
78	12"	PINE
79	8"	ОАК
80	<8''	NON-REGULATED PINE
81	13"	ОАК
82	9"	ОАК
83	9"	ОАК
84	8''	ΟΑΚ

Approved Construction	Plan
Name	Date

anning					
affic					

	M	NGTON NORTH CAROLINA
Public Service	s •	Engineering Division
APPROVED STOR	MWAT	ER MANAGEMENT PLAN
ate:	Permi	it #
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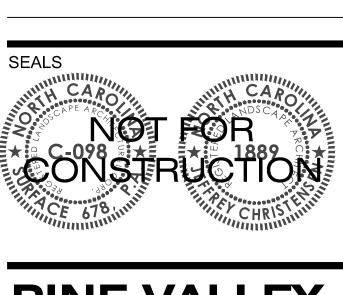
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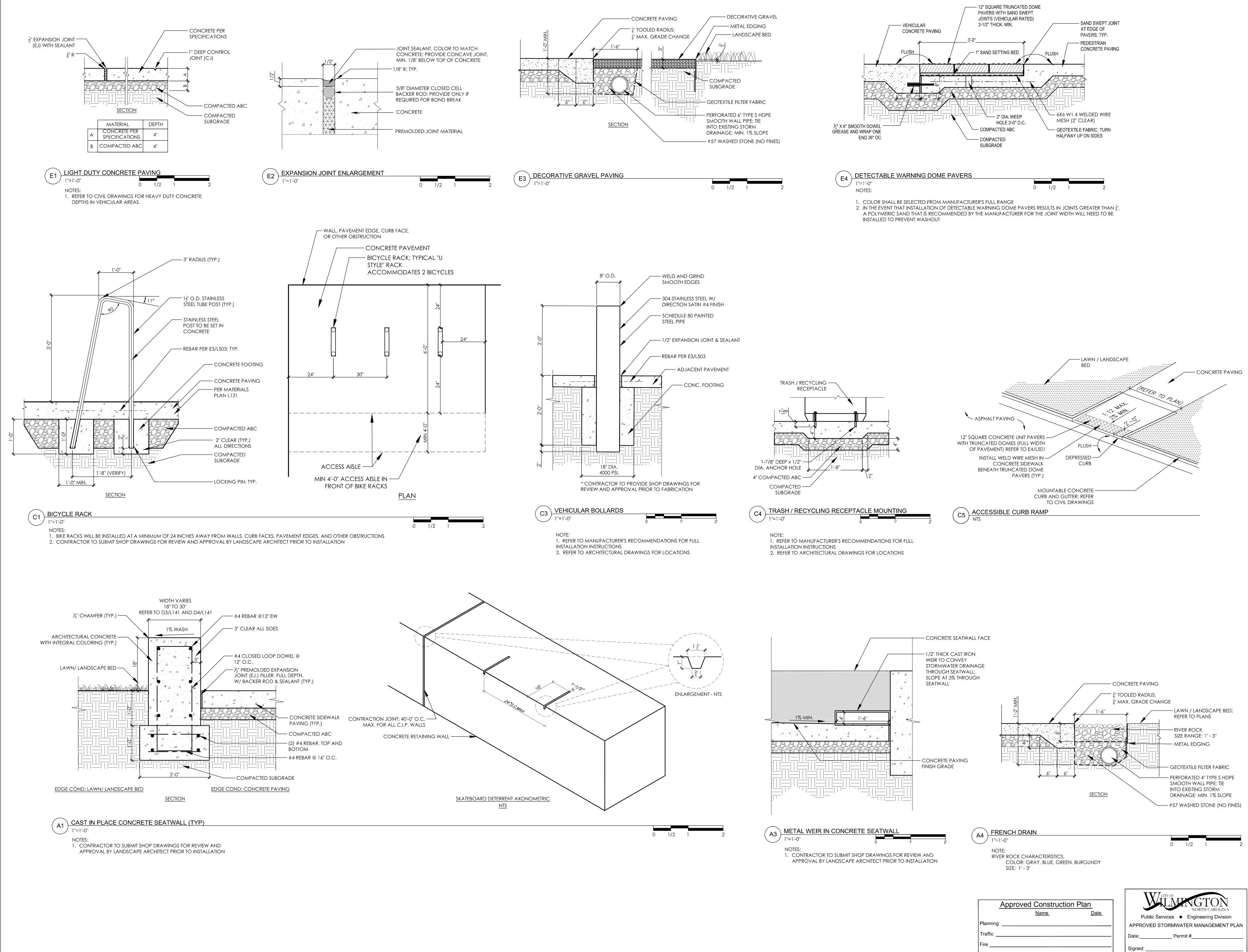


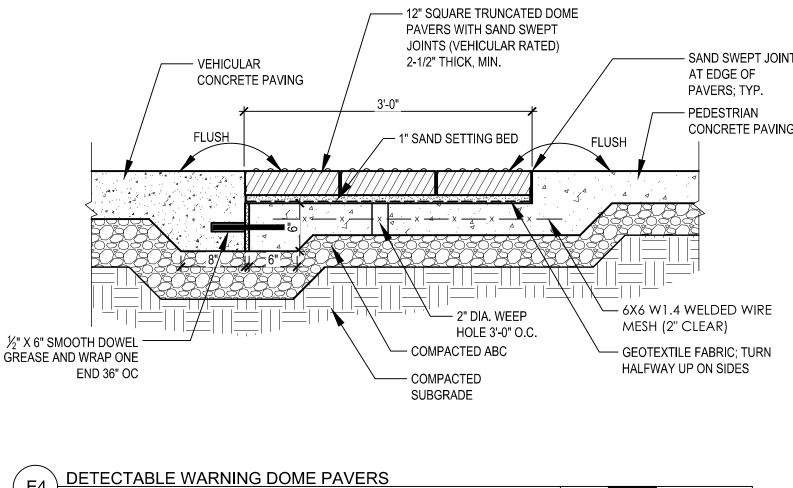


OWNER NEW HANOVER COUNTY

PHASE		PRELIMINARY		
DATE		MAY 15, 2018		
PROJECT	PINE	ALLEY BRANCH		
VA PROJEC	Γ#	2016005		
SCO ID		-		
DRAWING TITLE				
EXISTING TREE DATA TABLES				

 $_{162}$







DETAILS

PHASE	PRELIMINARY ISSUE FOR BID			
DATE	MAY 15, 2018			
PROJECT	PINE VALLEY BRANCH			
VA PROJECT	# 2016005			
SCO ID	-			
DRAWING TITLE				

OWNER **NEW HANOVER** COUNTY



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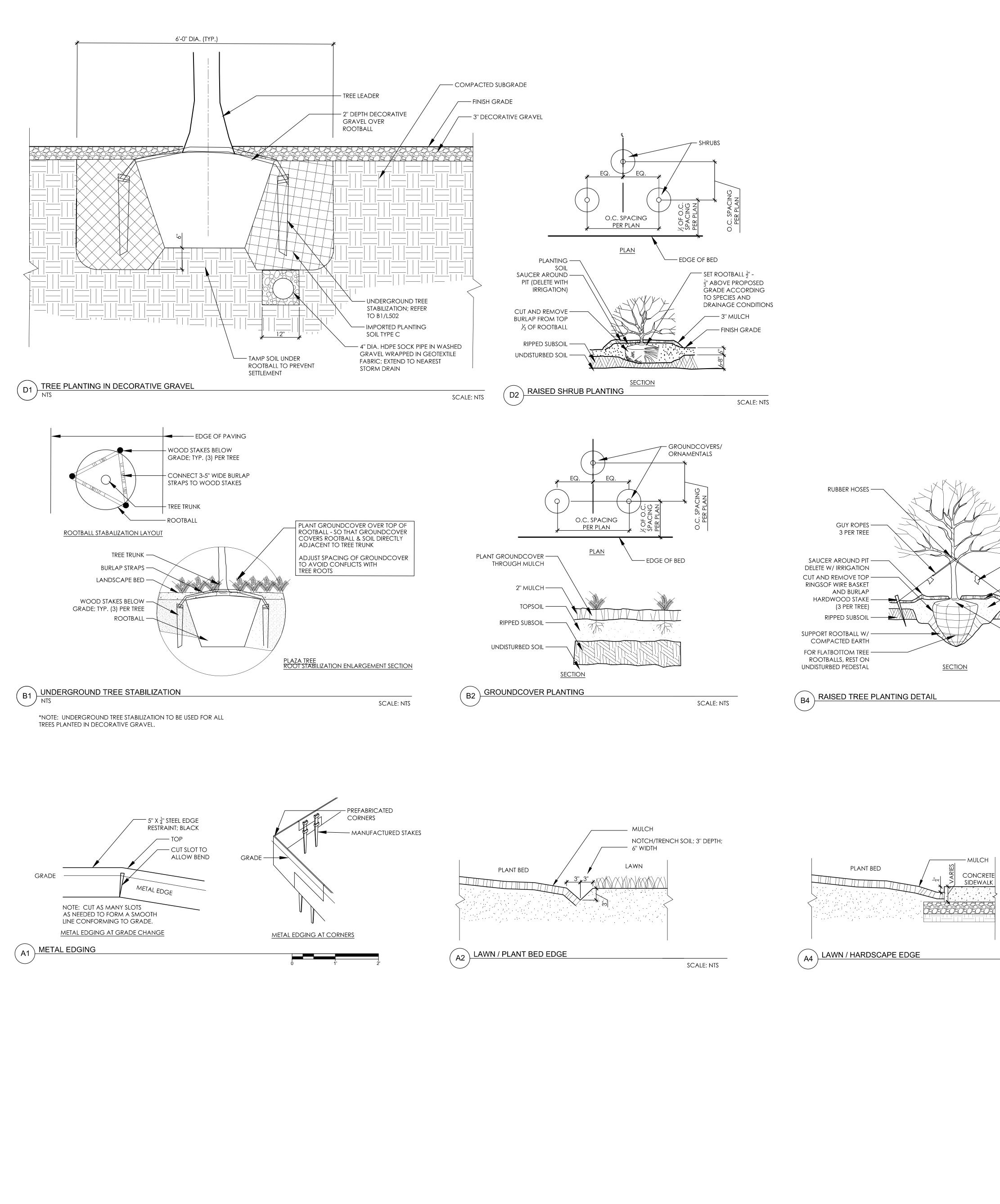
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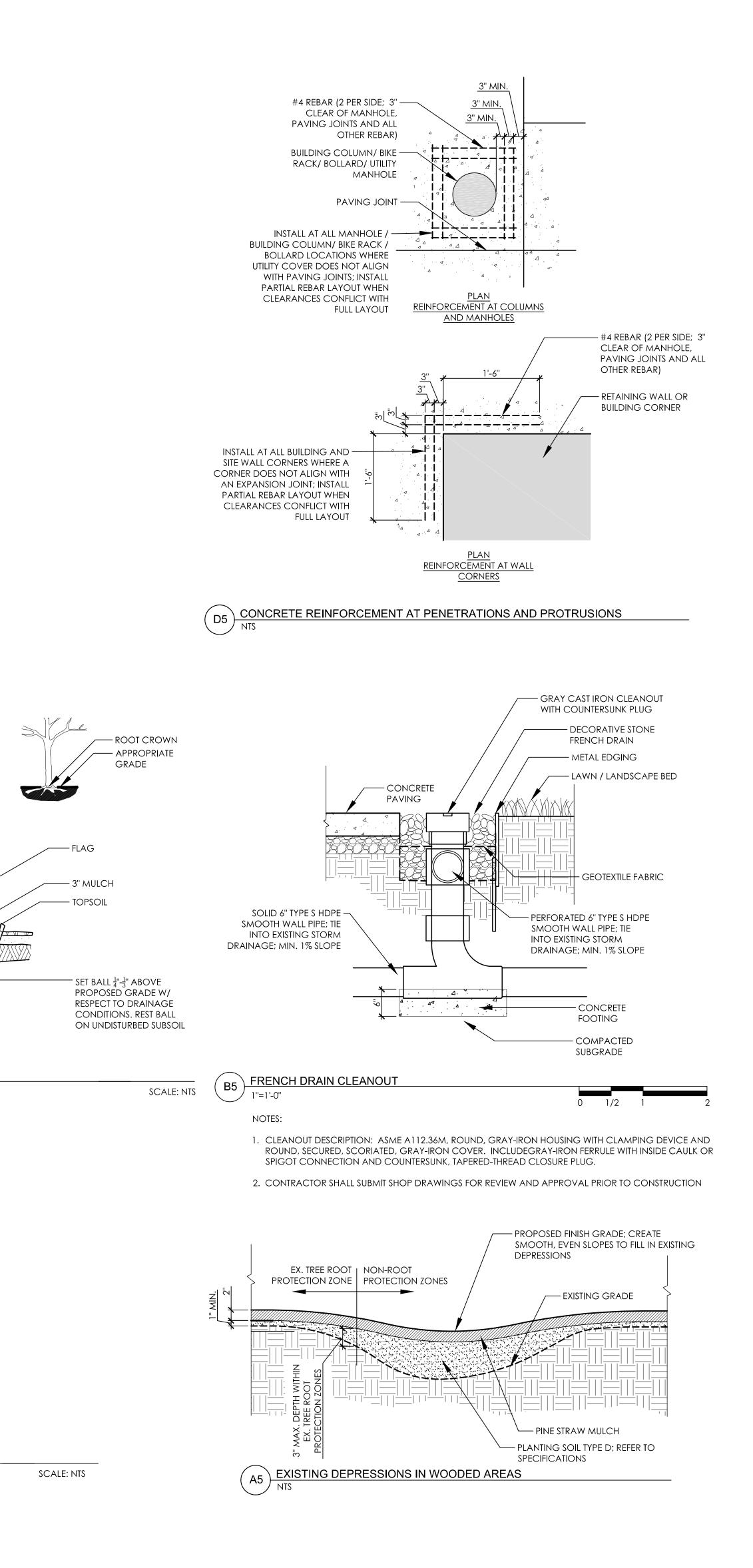
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	WII MUNGTON
Approved Construction Plan	VILVINGION NORTH CAROLINA
Name Date	Public Services
Planning	APPROVED STORMWATER MANAGEMENT PLAN
Traffic	Date: Permit #
Fire	Signed:



DRAWING NUMBER

PRELIMINARY PHASE ISSUE FOR BID MAY 15, 2018 DATE PINE VALLEY BRANCH PROJECT VA PROJECT # 2016005 SCO ID -DRAWING TITLE DETAILS





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