

INVENTORY OF TREES TO BE PROTECTED

TREE TYPE	TREE SIZE	QUANTITY	TOTAL DBH
GUM	18"	1	18
GUM	11"	1	11
GUM	9"	2	18
MAPLE	16"	1	16
CYPRESS	14"	1	14
CYPRESS	11"	1	11
CYPRESS	10"	2	20
PINE	17"	1	17
PINE	15"	1	15
PINE	13"	7	91
PINE	12"	2	24
PINE	8"	1	8
MAGNOLIA	8"	1	8
MAGNOLIA	4"	2	8
DOGWOOD	5"	1	5
HOLLY	11"	1	11
OAK	16"	1	16
OAK	13"	1	13
OAK	10"	1	10

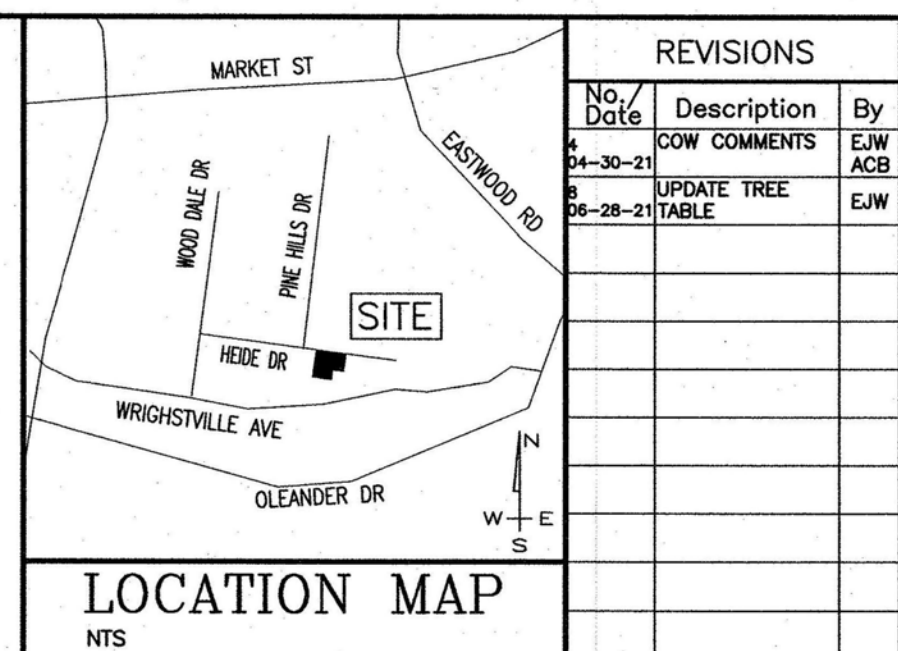
INVENTORY OF TREES TO BE REMOVED

TREE TYPE	TREE SIZE	QUANTITY
*GUM	14"	1
*GUM	13"	1
*GUM	12"	4
*GUM	11"	4
*GUM	8"	2
*CYPRESS	13"	2
PINE	16"	2
PINE	14"	1

INVENTORY OF TREES TO BE REMOVED

TREE TYPE	TREE SIZE	QUANTITY
MAGNOLIA	7"	1
MAGNOLIA	6"	1
MAGNOLIA	4"	1
DOGWOOD	4"	1
OAK	16"	1
OAK	12"	2
OAK	10"	2
OAK	9"	2
OAK	8"	1
OAK	6"	1
*HARDWOOD	8"	1

* SIGNIFICANT TREES



REVISIONS

No.	Date	Description	By
1	06-18-20	UPDATE TREE TABLE	BJH
2	06-18-20	UPDATE TREE TABLE	BJH

- SITE INVENTORY NOTES:**
- PREPARER OF THE PLAN: TRIPP ENGINEERING, P.C.
 - APPLICANT NAME: WILLIAMS DEVELOPMENT GROUP, LLC LANDS
 - SITE ADDRESS OF THE DEVELOPMENT: HEIDE DRIVE
 - PROPERTY OWNER: STW PROPERTIES, LLC
 - DEVELOPER: WILLIAMS DEVELOPMENT GROUP
 - PROPERTY BOUNDARY: SEE PLAN
TAX PARCEL INFORMATION:
TRACT 2 PINE HILLS MAP BOOK 6 PAGE 59 DEED BOOK 5274 PAGE 613
TRACT 3 PINE HILLS MAP BOOK 6 PAGE 59 DEED BOOK 5274 PAGE 613
 - PROPERTY ZONING: R-10 RESIDENTIAL
PID: R05520-008-068-000
PID: R05520-008-067-000
52,272 SF / AC: 1.02
 - ADJACENT PROPERTY OWNER INFORMATION: SEE PLAN
 - VICINITY MAP: SEE PLAN
 - TOPOGRAPHY: SEE PLAN
 - 100-YEAR FLOOD BOUNDARY: N/A
 - EXISTING DITCHES, CREEKS AND STREAMS: SEE PLAN
 - SOIL: BH-HAYMEADE, MU-MURVILLE, SE-SEAGATE
 - CAMA AEC: N/A
 - CAMA LAND CLASSIFICATION: URBAN
 - CONSERVATION RESOURCES: NONE
ASSOCIATED SETBACKS: N/A
 - HISTORIC OR ARCHAEOLOGICAL SITE: N/A
 - CEMETERIES, BURIAL SITES/GROUNDS: N/A
 - FORESTED AREAS, HABITAT AND DOMINANT SPECIES: N/A
 - WETLANDS: SEE PLAN
 - PROTECTED SPECIES OR HABITAT: N/A
 - EXISTING OR PROPOSED THOROUGHFARES, BIKE ROUTES, PEDESTRIAN SIDEWALKS OR TRAILS AND TRANSIT FACILITIES: SEE SITE PLAN

LEGEND

- TREE TO BE REMOVED
- TREE PROTECTION
- DEMO
- EXISTING IRON SET IRON
- CONC. MONUMENT
- EXIST. FIRE HYDRANT
- EXIST. POWER POLE
- PROPERTY LINE
- OHE EXIST. OVERHEAD ELECTRIC
- SS EXIST. SANITARY SEWER LINE
- SD EXIST. STORM DRAINAGE LINE
- W EXIST. WATER LINE

SURVEYOR LEGEND

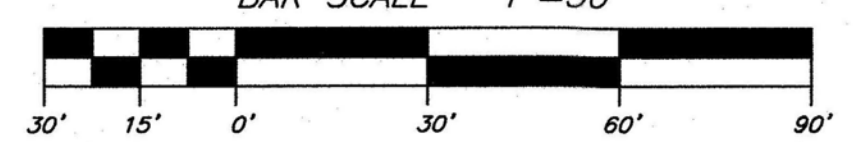
- IRON PIPE FOUND (EIP)
- IRON REBAR FOUND (EIR)
- IRON PIPE SET (IPS)
- CONC. MONUMENT FOUND (ECM)
- MAG NAIL SET
- CENTERLINE (CL)
- RIGHT OF WAY
- NON-MONUMENTED POINT (NMP)
- CONIFER TREE (SIZES/TYPES AS NOTED)
- DECIDUOUS TREE (SIZES/TYPES AS NOTED)
- FLOWERING TREE (SIZES/TYPES AS NOTED)

SITE INVENTORY, DEMOLITION, AND TREE REMOVAL PLAN
WOODLAND PARK SUBDIVISION
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
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Approved Construction Plan
Date: 6/29/21
2020020
SWP #: 2021028
PO, CW, TB, MB, BM

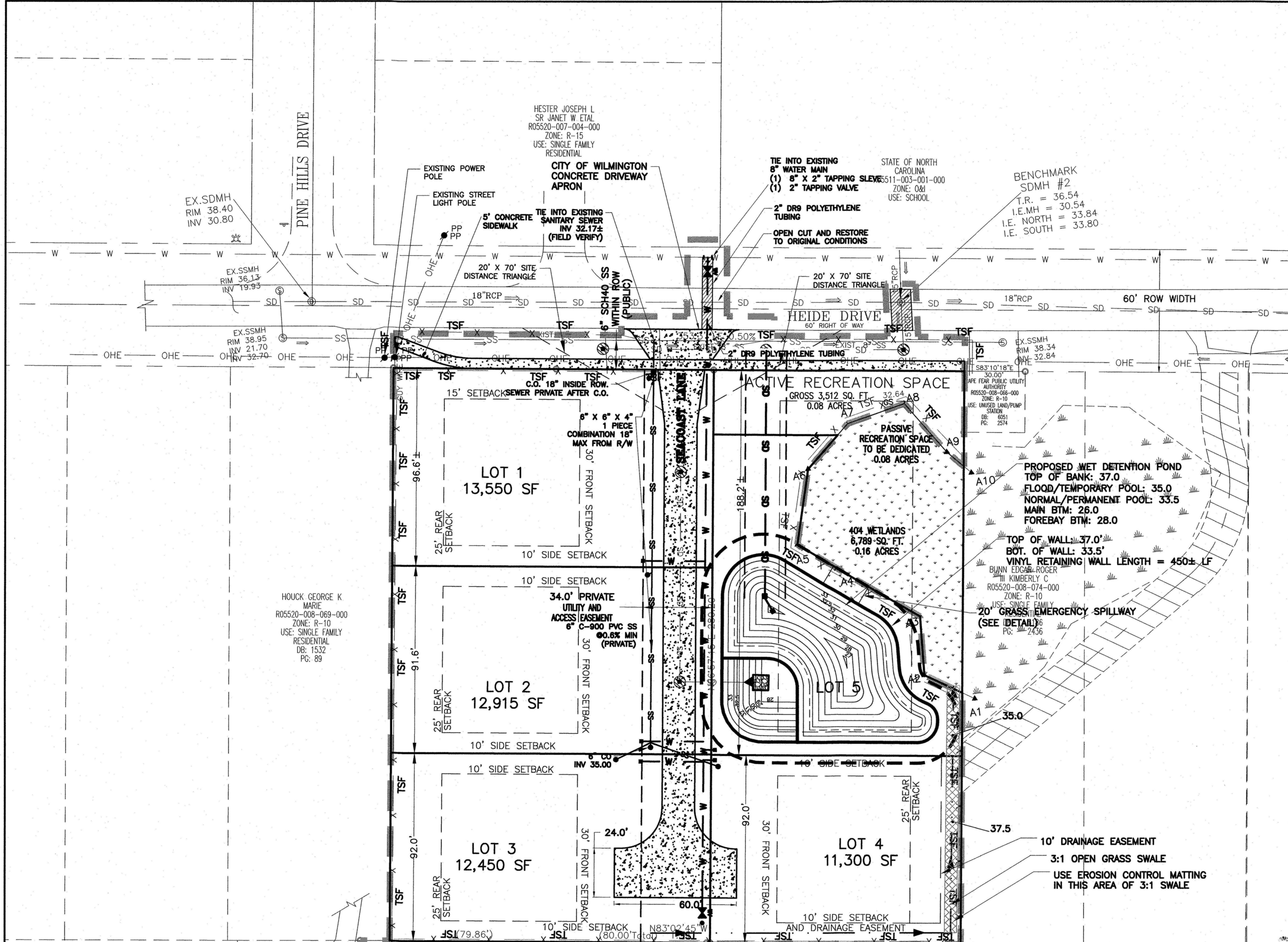
SITE PLAN
BAR SCALE 1"=30'



For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

DATE 06-18-20
DESIGN PGT
DRAWN BJH

C1
SHEET 1 OF 7
19009



NOTES:

ZONING

- 1) TOPOGRAPHY AND TREE SURVEY COMPLETED BY DANFORD AND ASSOC.
- 2) PERMITTING OF SIGNAGE IS A SEPARATE PROCESS. CITY OF WILMINGTON WILL NOT ALLOW OBSTRUCTION WITHIN THE RIGHT-OF-WAY.
- 3) CONTRACTOR SHALL FIELD VERIFY SIZE, MATERIAL, INVERTS AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO INSTALLATION OF PROPOSED CONNECTIONS.
- 4) EXISTING EASEMENTS AS SHOWN, PROPOSED EASEMENTS AS SHOWN.
- 5) CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- 6) UNDERGROUND FIRE LINE(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTACT THE WILMINGTON FIRE DEPARTMENT DIVISION OF FIRE AND LIFE SAFETY AT 910-341-0696.

SOLID WASTE

- 1) SITE TO USE ROLL OUT CARTS.

TRAFFIC

- 1) ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.
- 2) IT SHALL BE THE RESPONSIBILITY OF THE SUBDIVIDER TO ERECT OFFICIAL STREET NAME SIGNS AT ALL INTERSECTIONS ASSOCIATED WITH THE SUBDIVISION IN ACCORDANCE WITH THE TECHNICAL STANDARDS AND SPECIFICATIONS MANUAL. THE SUBDIVIDER MAY ACQUIRE AND ERECT OFFICIAL STREET NAME SIGNS OR MAY CHOOSE TO CONTRACT WITH THE CITY TO INSTALL THE STREET SIGNS AND THE SUBDIVIDER SHALL PAY THE COST OF SUCH INSTALLATION. CONTACT TRAFFIC ENGINEERING AT 341-7888 TO DISCUSS INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 3) 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.
- 4) CONTACT TRAFFIC ENGINEERING AT 341-7888 TO ENSURE THAT ALL TRAFFIC SIGNALS FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- 5) CALL TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY.
- 6) ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- 7) CONTACT TRAFFIC ENGINEERING AT 741-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- 8) ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- 9) NO ROWS TO BE CLOSED.
- 10) NO STREETS PROPOSED.
- 11) NO OFF SITE PARKING PROPOSED.
- 12) PRIVATE ACCESS EASEMENTS IS PROPOSED.
- 13) TRAFFIC ENGINEERING MUST APPROVE A PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- 14) ALL PARKING STALL MARKING AND LANE ARROWS WITHIN THE PARKING AREA SHALL BE WHITE.
- 15) STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- 16) A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- 17) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT. (SD 15-14 CoW TECH STDS)

LANDSCAPING

- 1) A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND THE PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAT.
- 2) NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SITE DISTANCE.
- 3) 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.
- 4) ANY TREES AND/OR AREAS DESIGNATED TO BE PROTECTED MUST BE PROPERLY BARRICADED WITH FENCING AND PROTECTED THROUGHOUT CONSTRUCTION TO INSURE THAT NO CLEARING, GRADING OR STAGING OF MATERIALS WILL OCCUR IN THOSE AREAS.
- 5) NO EQUIPMENT IS ALLOWED ON SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING IS INSTALLED AND APPROVED. PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT AND CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTIONS ON TREE PROTECTION METHODS.

CFPUA

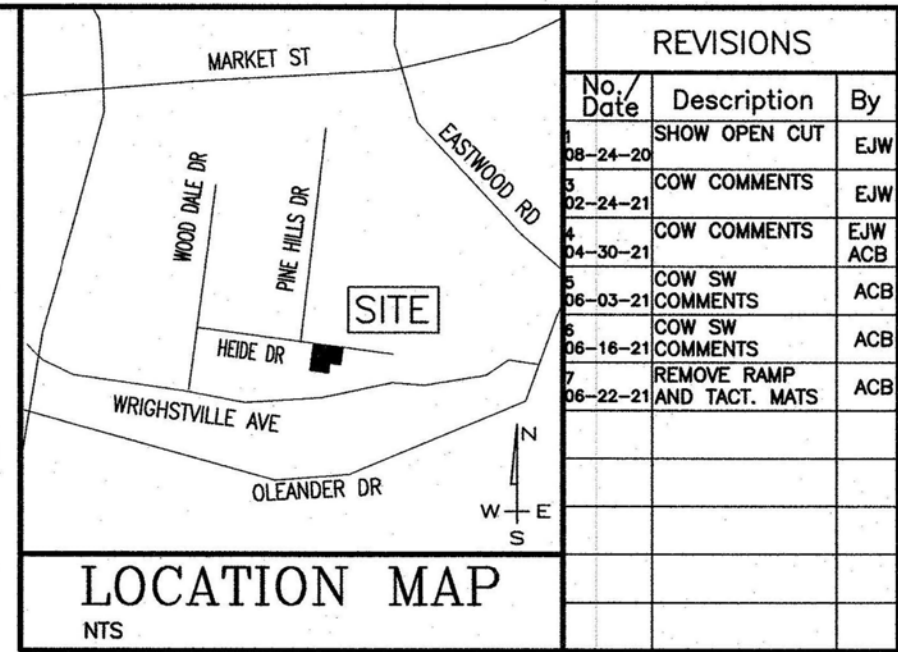
- 1) WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- 2) PROJECT SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL.
- 3) IF THE CONTRACTOR DESIRES CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPERS SIDE OF THE WATER METER BOX.
- 4) ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA'S CONNECTION CONTROL REGULATION. CALL 332-6419 FOR INFORMATION.
- 5) ANY BACKFLOW PREVENTION DEVICES REQUIRED BY CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES FOR USFCOCHR OR ASSE.
- 6) PUBLIC WATER AND SEWER EXIST WITHIN WRIGHTSVILLE AVE. R/W. NO RECORDS OF INDIVIDUAL EASEMENTS EXIST.
- 7) CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING OR GRADING.
- 8) ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- 9) CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.

DRAINAGE

- 1) INVERTED CROWN TO DROP INLETS TO DETENTION POND.
- 2) ALL ONSITE LOT AND ACCESS EASEMENT DRAINAGE TO BE DIRECTED TO DETENTION POND.

FIRE AND LIFE SAFETY

ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.



REVISIONS		
No./Date	Description	By
08-24-20	SHOW OPEN CUT	ELW
08-24-20	COW COMMENTS	ELW
08-24-20	COW COMMENTS	ELW
08-24-20	COW SW	ACB
08-24-20	COW SW	ACB
08-16-20	REMOVEMENTS	ACB
08-22-21	REMOVE RAMP AND TACT. MATS	ACB

SITE DATA:

PIN NUMBERS: PID: R05520-008-068-000
PID: R05520-008-067-000

PROPERTY OWNER: STW PROPERTIES, LLC

PROJECT ADDRESS: 5030 HEIDE DR.
5032 HEIDE DR.

TRACT AREA: 78,457 SF (1.80 Ac)

ZONING DISTRICT: R-10

AREA NOT IN A FEMA 100-YEAR FLOOD ZONE: URBAN

PROPOSED ZONING: R-10

PROPOSED USE SQUARE FOOTAGE(S) OF USE(S): N/A

NUMBER OF UNITS/BEDROOMS: 8/20

BUILDING CONSTRUCTION TYPE: TBD

BUILDING LOT COVERAGE PERCENTAGE:

LOT 1	16%
LOT 2	16%
LOT 3	16%
LOT 4	21%

BUILDING HEIGHT / # OF STORIES: 1

SF PER FLOOR: 2,850 SF

BUILDING SETBACKS - REQUIRED AND PROPOSED:

REQUIRED	
FRONT:	30 FT
SIDE:	10
REAR:	25
PROPOSED	
FRONT:	30 FT
SIDE:	10
REAR:	25

PARKING SPACES: N/A

EXISTING IMPERVIOUS AREA: 0 SF

PROPOSED ON SITE IMPERVIOUS AREA:

LOTS (6,190 SF PER LOT)	24,760 SF
ACCESS ROAD	4,920 SF
SIDEWALK	2,020 SF
FUTURE	1,225 SF
TOTAL	32,925 SF
	0.76 AC (42%) SF

PROPOSED OFF SITE IMPERVIOUS CONCRETE: 2,013 SF
.05 AC

DISTURBED AREA: 92,898 SF (2.13 AC)

NUMBER OF UNITS: 4 LOTS

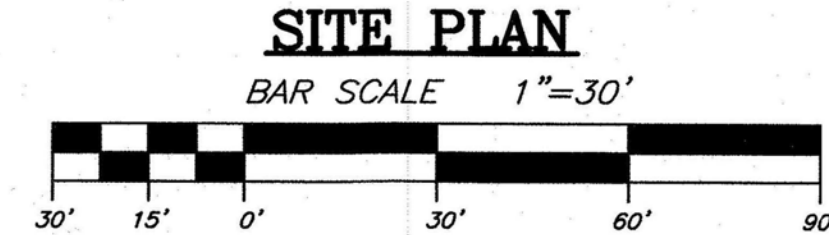
RECREATION AREA - (0.03 AC/UNIT) (4 UNITS X .03) = 0.12 AC REQ'D

**** 0.08 AC. ACTIVE PROVIDED ****

**** 0.08 AC. PASSIVE PROVIDED ****

LEGEND

X	EXISTING TREE TO BE REMOVED
---	LIMITS OF DISTURBANCE
TSF x TSF	TEMPORARY SILT FENCE
⊕	EXIST. FIRE HYDRANT
---	R/W LINE
---	BOUNDARY LINE
---	STORMWATER
SS	PROPOSED SANITARY SEWER
W	PROPOSED WATER
▨	PROPOSED CONCRETE



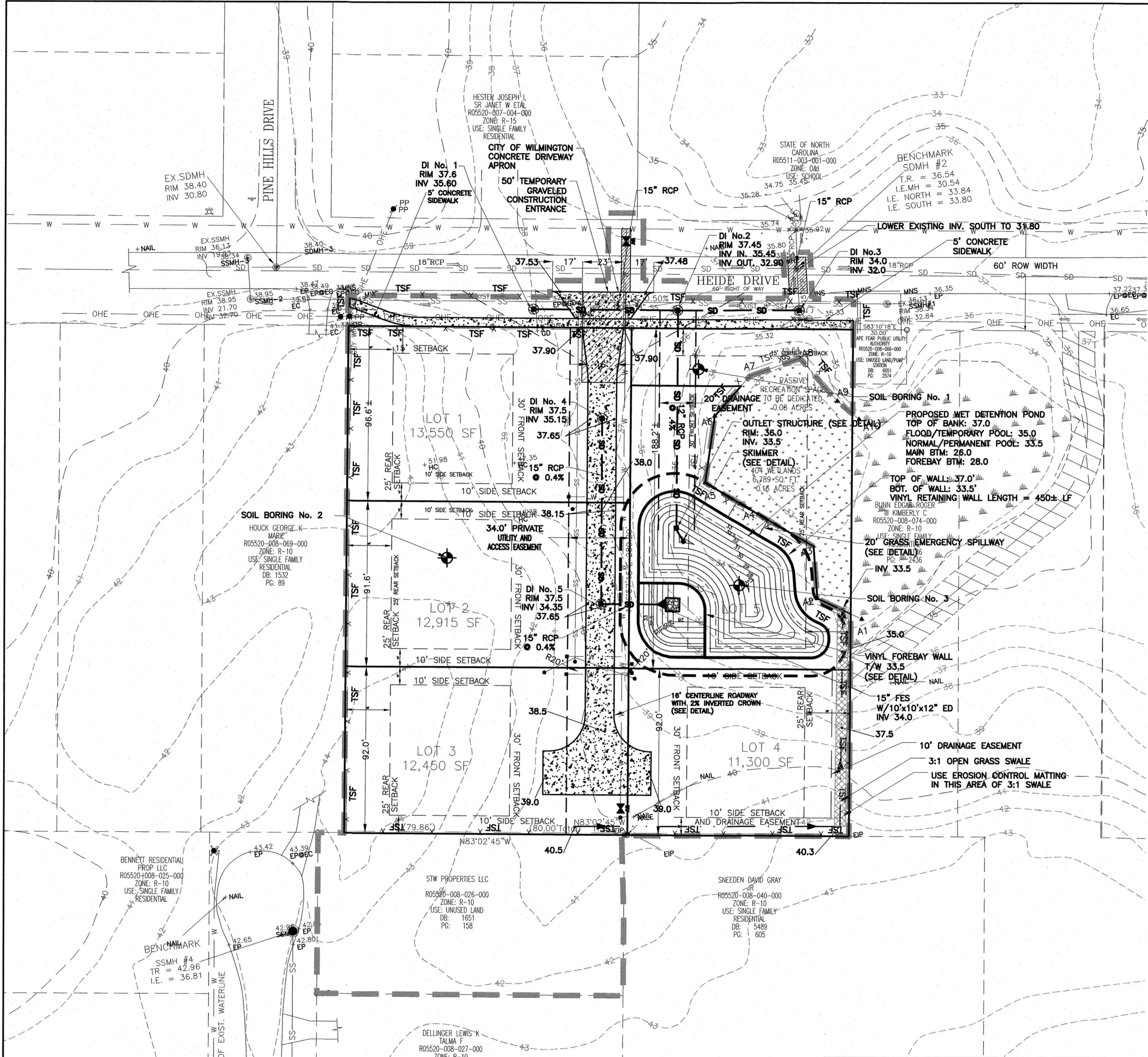
Approved Construction Plan
Date: 6/29/21
2020020
SWP #: 2021028
PO, CW, TB, MB, BM

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

SITE AND UTILITY PLAN
WOODLAND PARK SUBDIVISION
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631
© 2021 TRIPP ENGINEERING, P.C.

DATE 06-18-20
DESIGN PGT
DRAWN BJH
C2
SHEET 2 OF 7
19009



NOTES:

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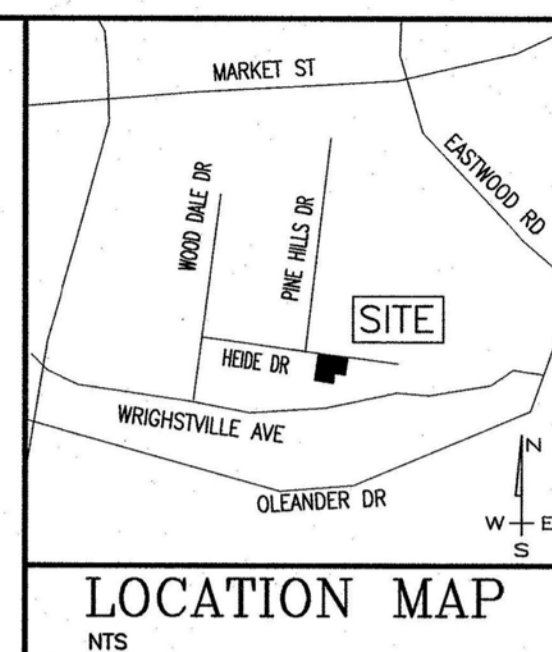
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- CFPIA**
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- DRAINAGE**
 1) INVERTED CROWN TO DROP INLETS TO DETENTION POND.
 2) ALL ONSITE LOT AND ACCESS EASEMENT DRAINAGE TO BE DIRECTED TO DETENTION POND.

- FIRE AND LIFE SAFETY**
 ADDITIONAL FIRE PROTECTION AND/OR ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.



REVISIONS			
No.	Date	Description	By
01	06-18-20	SHOW OPEN CUT	EJW
02	06-18-20	ADDED POND	BJH
03	06-18-20	COW COMMENTS	EJW
04	06-18-20	COW COMMENTS	EJW
05	06-18-20	COW SW COMMENTS	ACB
06	06-18-20	COW SW COMMENTS	ACB
07	06-18-20	REMOVE RAMP	ACB
08	06-18-20	REMOVE TRAC MATS	ACB

SITE DATA:

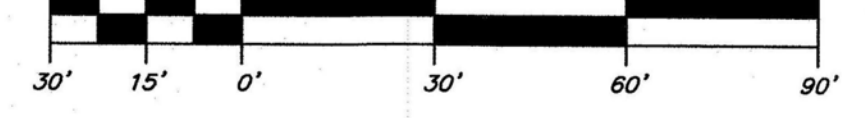
PIN NUMBERS	PID: R05520-008-068-000 PID: R05520-008-067-000
PROPERTY OWNER	STW PROPERTIES, LLC
PROJECT ADDRESS	5030 HEIDE DR. 5032 HEIDE DR.
TRACT AREA	78,457 SF (1.80 AC)
ZONING DISTRICT	R-10
AREA NOT IN A FEMA 100-YEAR FLOOD ZONE	
CAMA LAND USE	URBAN
PROPOSED ZONING	R-10
PROPOSED USE SQUARE FOOTAGE(S) OF USE(S)	N/A
NUMBER OF UNITS/BEDROOMS	8/20
BUILDING CONSTRUCTION TYPE	TBD
BUILDING LOT COVERAGE PERCENTAGE	
LOT 1	16%
LOT 2	16%
LOT 3	16%
LOT 4	21%
BUILDING HEIGHT / # OF STORIES	1
SF PER FLOOR	2,850 SF
BUILDING SETBACKS - REQUIRED AND PROPOSED	
	REQUIRED
	FRONT: 30 FT
	SIDE: 10
	REAR: 25
	PROPOSED
	FRONT: 30 FT
	SIDE: 10
	REAR: 25
PARKING SPACES	N/A
EXISTING IMPERVIOUS AREA	0 SF
PROPOSED ON SITE IMPERVIOUS AREA	
LOTS (6,190 SF PER LOT)	24,760 SF
ACCESS ROAD	4,920 SF
SIDEWALK	2,020 SF
FUTURE	1,225 SF
TOTAL	32,925 SF
	0.76 AC (42%) SF
PROPOSED OFF SITE IMPERVIOUS CONCRETE	2,013 SF
	.05 AC
DISTURBED AREA	92,898 SF (2.13 AC)
NUMBER OF UNITS	4 LOTS
RECREATION AREA - (0.03 AC/UNIT) (4 UNITS X .03) = 0.12 AC REQ'D	
** 0.08 AC. ACTIVE PROVIDED **	
** 0.08 AC. PASSIVE PROVIDED **	

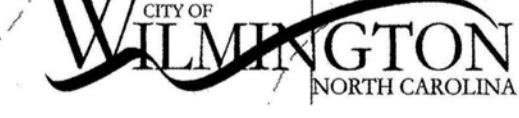
LEGEND

- SS SEWER
- W WATER
- SD PROPOSED STORM WATER
- SD FLARED END SECTION STORM
- TSF LIMITS OF DISTURBANCE
- TSF x TSF TEMPORARY SILT FENCE
- PROPOSED SIDEWALK
- 38.9 PROPOSED SPOT ELEVATION
- DROP INLET PROTECTION

SITE PLAN

BAR SCALE 1"=30'




Approved Construction Plan
 Date: 6/29/21
 # 2020020
 SWP #: 2021028
 PO, CW, TB, MB, BM

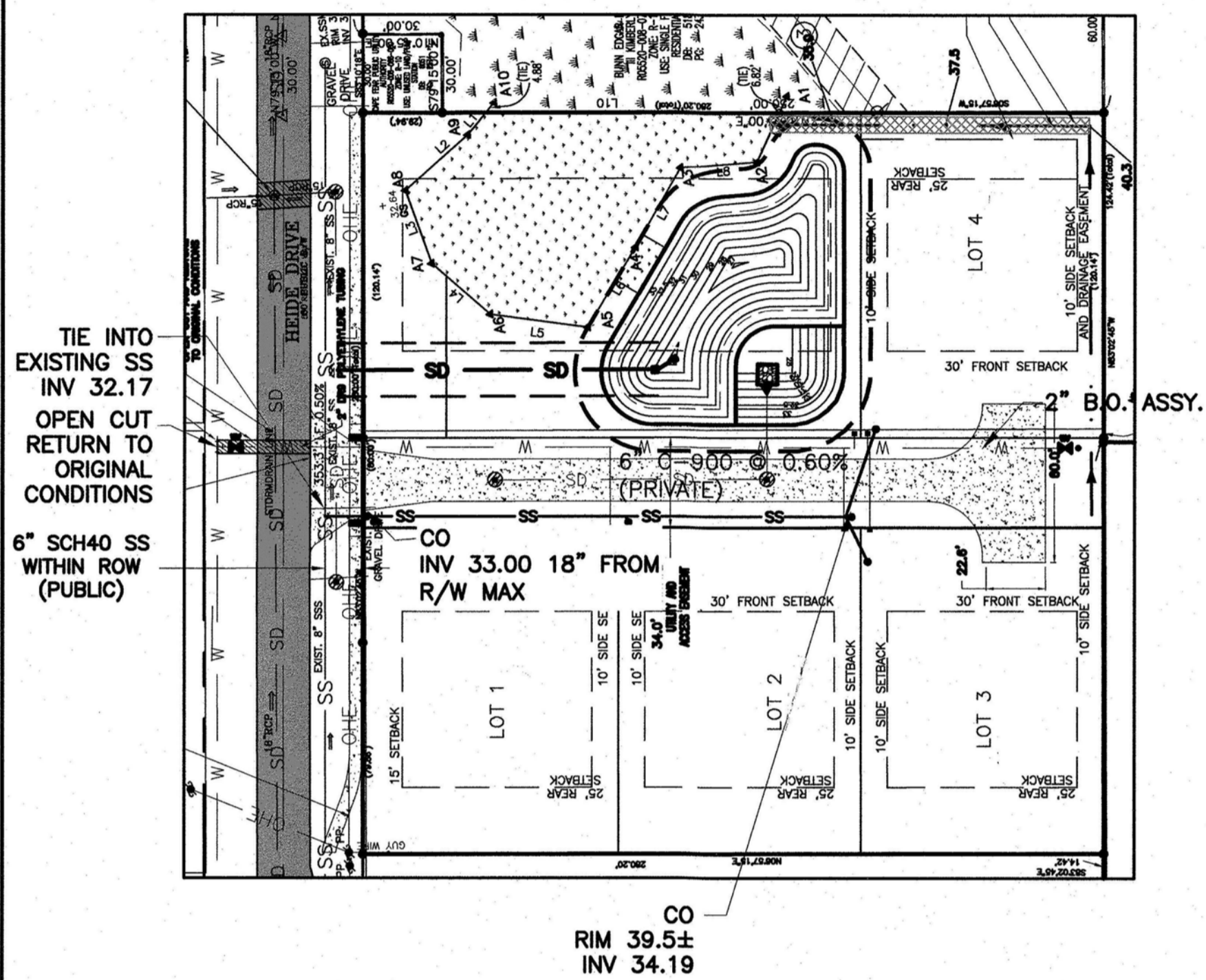
**GRADING, DRAINAGE EROSION CONTROL
 STORMWATER MANAGEMENT AND UTILITY PLAN
 WOODLAND PARK SUBDIVISION
 WILMINGTON, NORTH CAROLINA**

TRIPP ENGINEERING, P.C.
 419 Chestnut Street
 Wilmington, North Carolina 28401
 Phone 910-763-5100
 Fax 910-763-5631
 © 1999-2021 Tripp Engineering, P.C.

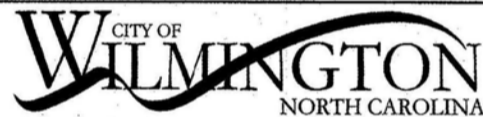


DATE 06-18-20
 DESIGN PGT
 DRAWN BJH

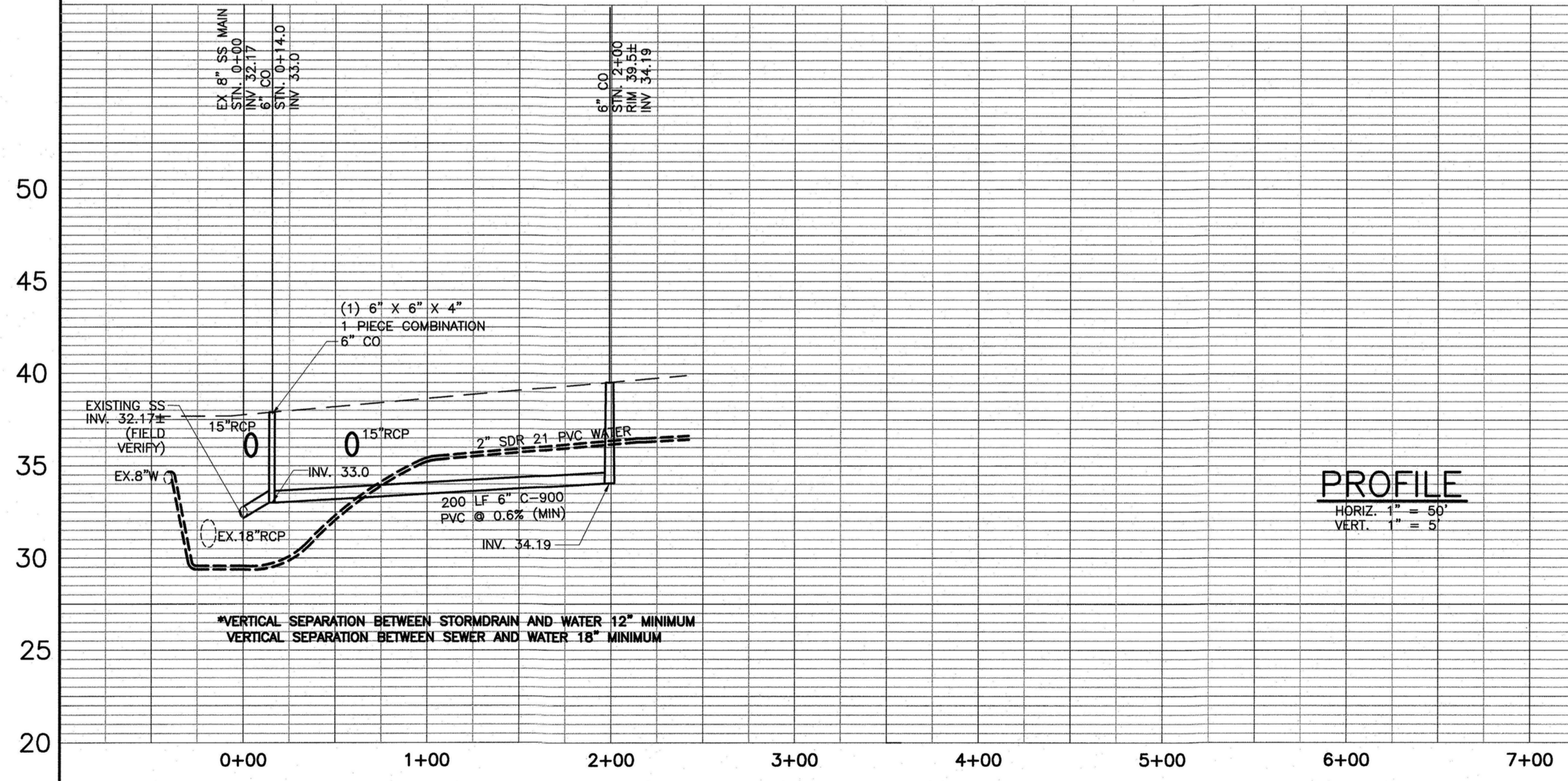
C3



- CAPE FEAR PUBLIC UTILITY AUTHORITY STANDARD NOTES:
1. ALL PROPOSED ADDITIONS TO THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) WATER DISTRIBUTION AND SANITARY SEWER COLLECTION SYSTEMS AS SHOWN AND SPECIFIED HEREIN SHALL BE DESIGNED AND CONSTRUCTED TO CONFORM TO STATE RULES AND THE CFPUA'S MINIMUM TECHNICAL STANDARDS. MATERIAL SPECIFICATIONS, TECHNICAL STANDARDS ARE CONTAINED IN THE CURRENT DESIGN GUIDANCE MANUAL, STANDARD DRAWING MANUAL, TECHNICAL SPECIFICATIONS FOR CONSTRUCTION, AND STANDARD DRAWING DETAILS.
 2. SEWER GUARDS REQUIRED AT ALL MANHOLES. STAINLESS STEEL SEWER GUARDS REQUIRED AT MANHOLES LOCATED IN WATER AREAS.
 3. WATER AND SEWER SERVICES SHALL BE PERPENDICULAR TO MAIN AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. PERPENDICULAR OR NEARLY PERPENDICULAR IN END OF LINE MANHOLE AND TERMINATE 18" INSIDE RIGHT-OF-WAY LINE. ALL SEWER SERVICES CONNECTING INTO DUCTILE IRON MAINS SHALL ALSO BE CONSTRUCTED OF DIP.
 4. MINIMUM 10' UTILITIES EASEMENT PROVIDED ALONG THE FRONTAGE OF ALL LOTS AND AS SHOWN FOR NEW DEVELOPMENTS.
 5. NO LEAKAGE COUPLINGS SHALL BE USED.
 6. CLEANOUTS SHALL BE LOCATED A MINIMUM OF 6 FEET FROM ALL PROPERTY CORNERS.
 7. WATER METER BOXES ARE TO BE A MINIMUM OF 5 FEET FROM THE PROPERTY CORNER.
 8. UNUSED SERVICES SHALL BE ABANDONED. ABANDONED WATER SERVICES SHALL BE DISCONNECTED FROM MAIN.
 9. A MINIMUM OF 10' OF MAIN LINE, 5' UPSTREAM AND 5' DOWNSTREAM SHALL BE REPLACED FOR NEW SEWER SERVICE CONNECTIONS TO EXISTING CLAY GRAVITY SEWER MAINS.
 10. A MINIMUM OF 20' OF MAIN LINE, 10' UPSTREAM AND 10' DOWNSTREAM SHALL BE REPLACED FOR NEW CO. IN MANHOLES ON EXISTING CLAY GRAVITY SEWER MAINS.
 11. PROVIDE A MINIMUM DISTANCE OF 6" (6) INCHES BETWEEN EDGE OF MANHOLE CORE HOLES AND MANHOLE BARREL. JENTS, PROVIDE A MINIMUM DISTANCE OF 30" (3) INCHES BETWEEN EDGES OF CORE HOLES. CORING THE MANHOLE CONE IS NOT PERMITTED.
 12. WATER MAIN AND FORCE MAIN PIPE INSTALLED BY OPEN CUT SHALL BE BURIED AT A MINIMUM OF THREE (3) FEET AND A MAXIMUM OF FIVE (5) FEET BELOW FINISHED GRADE. DEPTHS GREATER THAN FIVE (5) FEET MUST BE APPROVED BY CFPUA.
 13. ALL MANHOLE MAIN LINE AND SERVICE PIPING TO BE INSTALLED AT A MINIMUM OF CROWN TO CROWN OF THE LARGEST DIAMETER PIPE.


Approved Construction Plan
 Date: 6/29/21
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 PO, CW, TB, MB, BM

PLAN
 1" = 40'



PROFILE
 HORIZ. 1" = 50'
 VERT. 1" = 5'

REV. NO.	DESCRIPTION	DATE
1	ADDED WATER PROFILE, OPEN CUT	08-24-20

SANITARY SEWER EXTENSION
 WOODLAND PARK SUBDIVISION
 WILMINGTON, NORTH CAROLINA


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 419 Chestnut Street
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CAPE FEAR PUBLIC UTILITY AUTHORITY
 NORTH CAROLINA

DATE: 06-18-20
 SCALE: 1" = 50'
 1" = 5'
 DRAWN: BJH
 CHECKED: PGT
 PROJECT NO: 19009
 SHEET NO: C4
 OF 4 OF 7

DRAIN DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that allow water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawal from sediment basins shall be allowed only when all of the following criteria have been met:

- The EASC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the EASC plan authority has approved these items.
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part II, Section C, Item (2)(c) and (d) of this permit.
- Dewatering discharges are treated with controls to minimize discharge of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, water tanks, and filtration systems.
- Vegetated upland areas of the site or a properly designed stone pad in use to the extent feasible at the outlet of the dewatering treatment devices described in item (c) above.
- Velocity dissipation devices such as check dams, and traps are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

Item to Document	Document Requirements
1. EASC Plan Documentation	Initial and date a copy of the approved EASC plan or complete, date and sign an inspection report that includes each EASC measure shown on the approved EASC plan. This documentation is required upon the initial installation of the EASC measures, are modified after initial installation.
2. Reporting Timeframes and Other Requirements	After a permittee becomes aware of an occurrence that may be reported, he shall contact the appropriate Division regional office within the timeframe and accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (910) 658-0568.
3. Reporting Timeframes (After Discovery) and Other Requirements	<ul style="list-style-type: none"> (a) Visible sediment: Within 24 hours, an oral or electronic notification. Division staff may waive the requirement for a description of the deposition in a stream or wetland. (b) Oil spills and releases: Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, volume, location and location of the spill or release. (c) Anticipated bypasses: A report that includes an evaluation of the anticipated quality and effect of the bypass. (d) Unidentified bypasses: Within 72 hours, an oral or electronic notification. (e) Noncompliance: Within 24 hours, an oral or electronic notification.

NGC-01 SELF INSPECTION

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCGO CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being consistent with the NCGO Construction General Permit (Sections A and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan on this sheet and any other applicable regulatory jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority jurisdiction.

Site Area Description	Stabilization Timeframe	Stabilization Exceptions
PERMETER DITCHES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WETLANDS (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 FEET IN LENGTH
ALL OTHER AREAS WITH FLATTER THAN 4:1	14 DAYS	NONE EXCEPT FOR PERIMETER DITCHES AND HQW ZONES

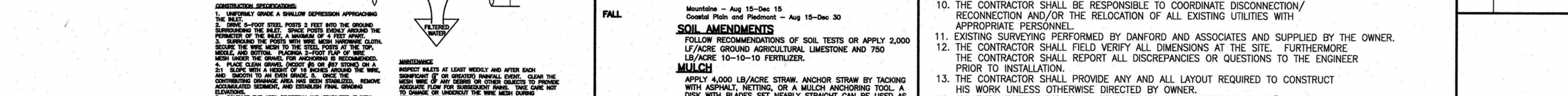
NGC-01 GROUND COVER & MATERIALS HANDLING

APPROVED CONSTRUCTION PERMIT

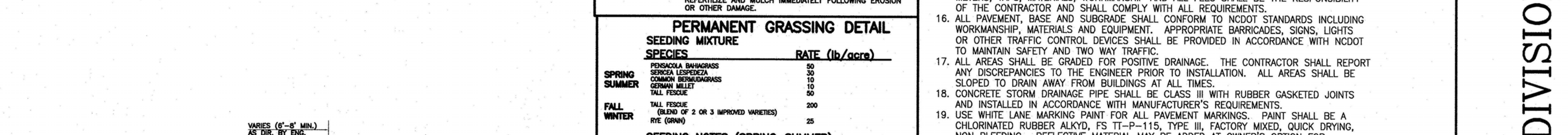
Date: 6/29/21
2020020
SWP #: 2021028
PO, CW, TB, MB, BM

For each open utility cut of City streets, a \$325 shall be required from the City prior to occupancy and/or project acceptance.

TEMPORARY SEEDING SPECIFICATION	SEEDING MIXTURE SPECIES	RATE (lb./acre)
LATE WINTER & EARLY SPRING	Eye (grass) Panicum (brome) Panicum and Coastal Pines Kernan (miscanthus) Ornamental grasses Ornamental grasses Ornamental grasses	120 50 40 40
SUMMER	German Millet	40
FALL	German Millet	40



TEMPORARY SILT FENCE



TEMPORARY GRAVELLED CONSTRUCTION ENTRANCE



TEMPORARY SEEDING SPECIFICATION	SEEDING MIXTURE SPECIES	RATE (lb./acre)
LATE WINTER & EARLY SPRING	Eye (grass) Panicum (brome) Panicum and Coastal Pines Kernan (miscanthus) Ornamental grasses Ornamental grasses Ornamental grasses	120 50 40 40
SUMMER	German Millet	40
FALL	German Millet	40

PERMANENT GRASSING DETAIL

SEEDING MIXTURE SPECIES	RATE (lb./acre)
SPRING	120
SUMMER	50
FALL	40

SEEDING NOTES (SPRING-SUMMER)

- WHERE A HEAT APPLICATOR IS DESIRED, OBTAIN A PERMIT FROM THE LOCAL AGRICULTURE EXTENSION SERVICE. A PERMIT IS REQUIRED TO APPLY HEAT TO ANY SITE WHERE A HEAT APPLICATOR IS USED.

NPDES GROUND STABILIZATION CRITERIA

SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION EXCEPTIONS
PERMETER DITCHES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WETLANDS (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 FEET IN LENGTH
ALL OTHER AREAS WITH FLATTER THAN 4:1	14 DAYS	NONE EXCEPT FOR PERIMETER DITCHES AND HQW ZONES

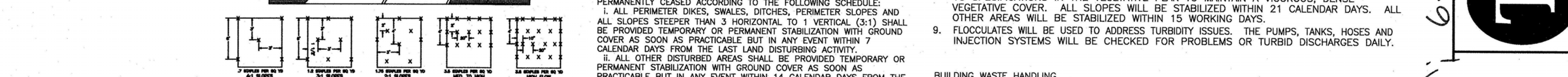
CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle, settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar trucks in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and limit per permit silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standards details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install concrete washout (silt) traps to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install a concrete washout sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove liquids from the washout when at approximately 75% capacity to limit overflow. Replace the tray, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow the manufacturer's instructions.
- At the completion of the concrete work, remove remaining washouts and dispose of in an approved facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous containers, drums or bagged materials directly on the ground.

EXCELISOR MATTING INSTALLATION



HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
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419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-0631
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WOODLAND PARK SUBDIVISION
WILMINGTON, NORTH CAROLINA

REVISIONS

No.	Date	Description	By

DETAILS AND NOTES

INSPECTIONS

- SAME WEEKLY INSPECTION REQUIREMENTS.
- SAME RAIN GAUGE AND INSPECTIONS AFTER 0.5" RAIN EVENT.
- INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS".
- INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
- RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
- ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.

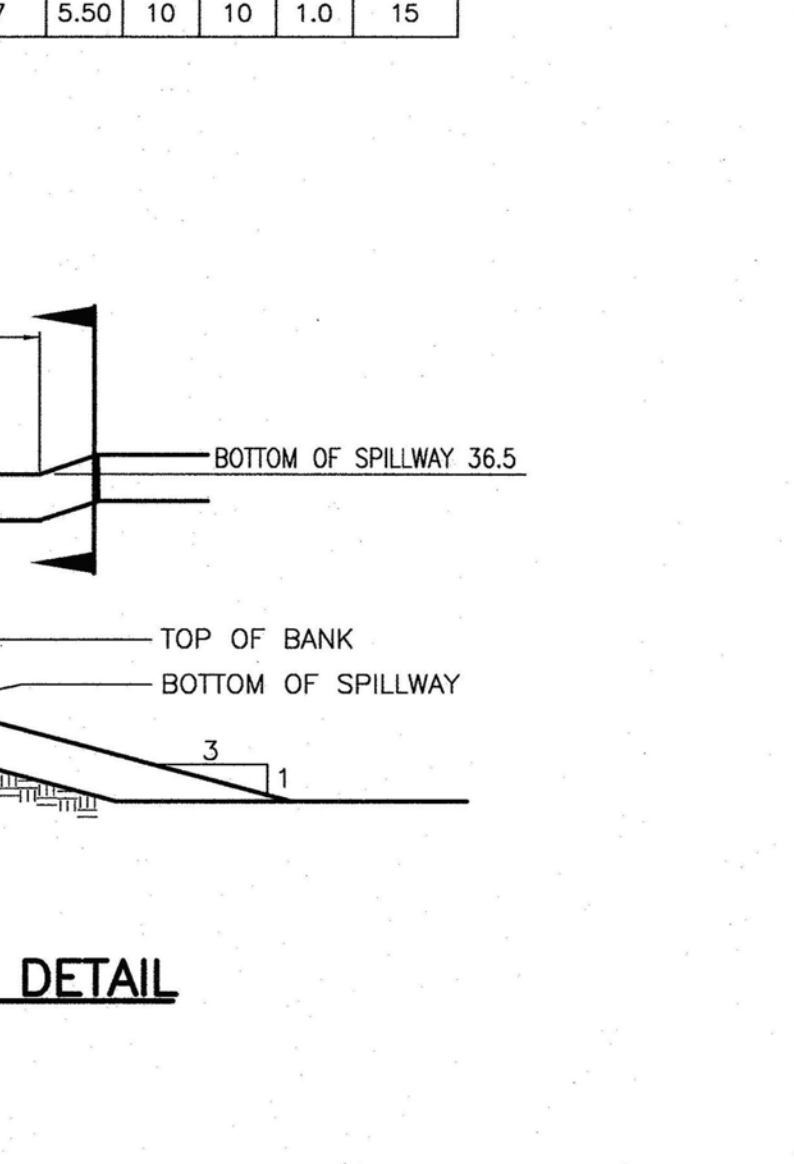
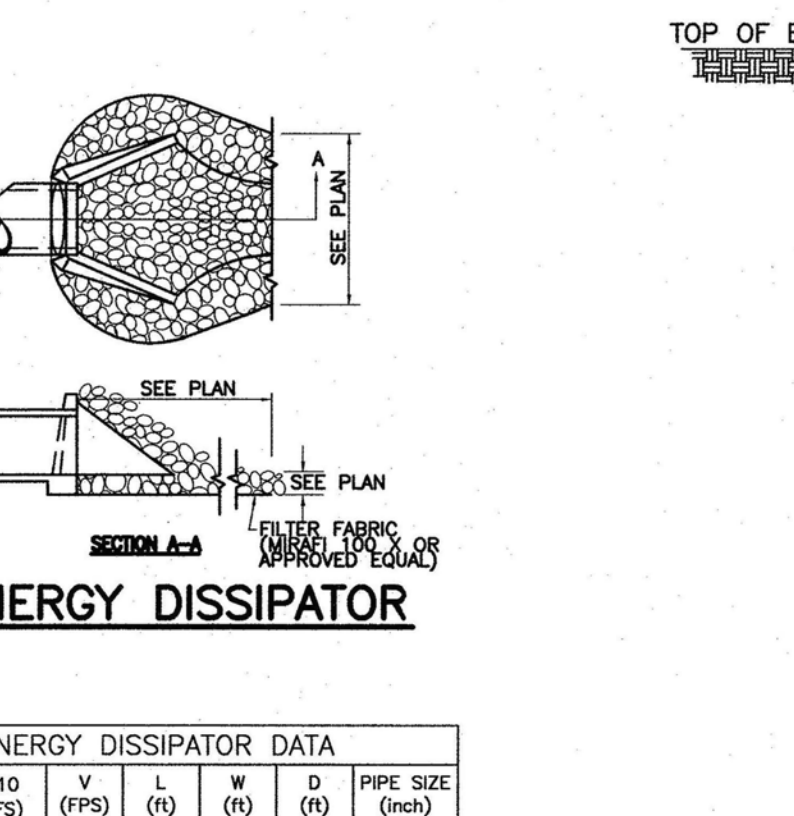
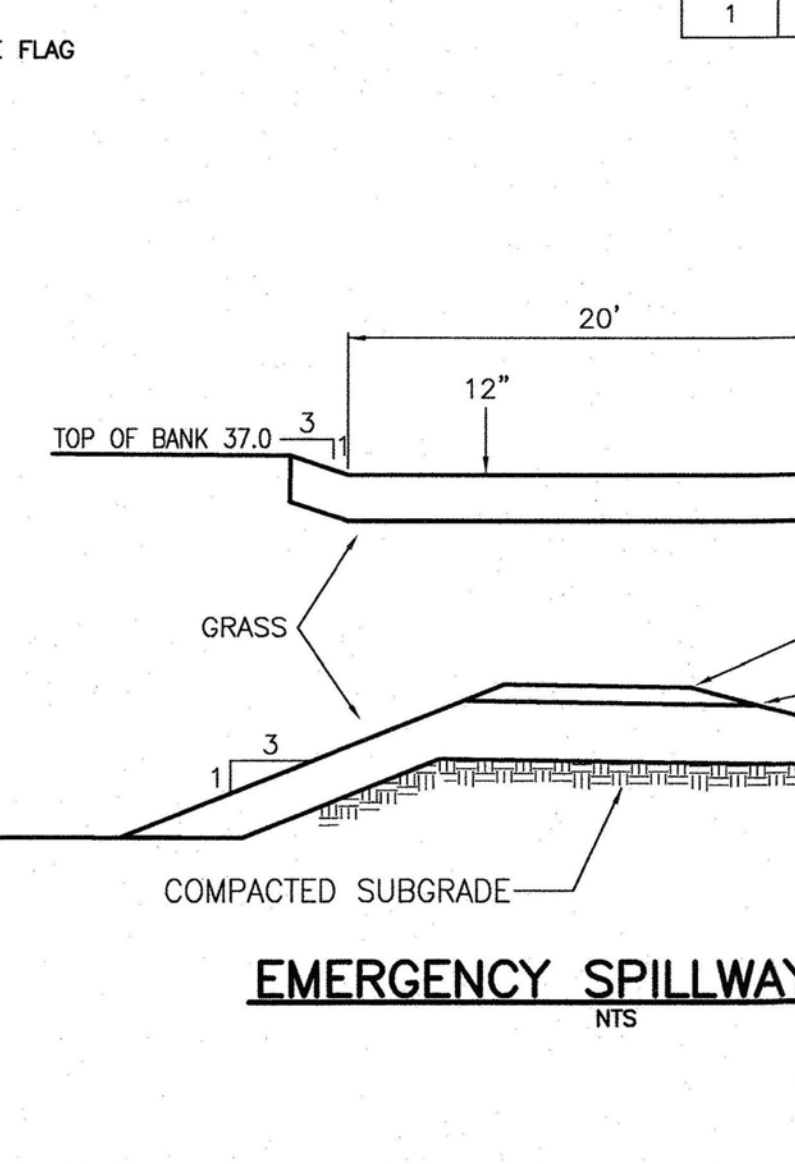
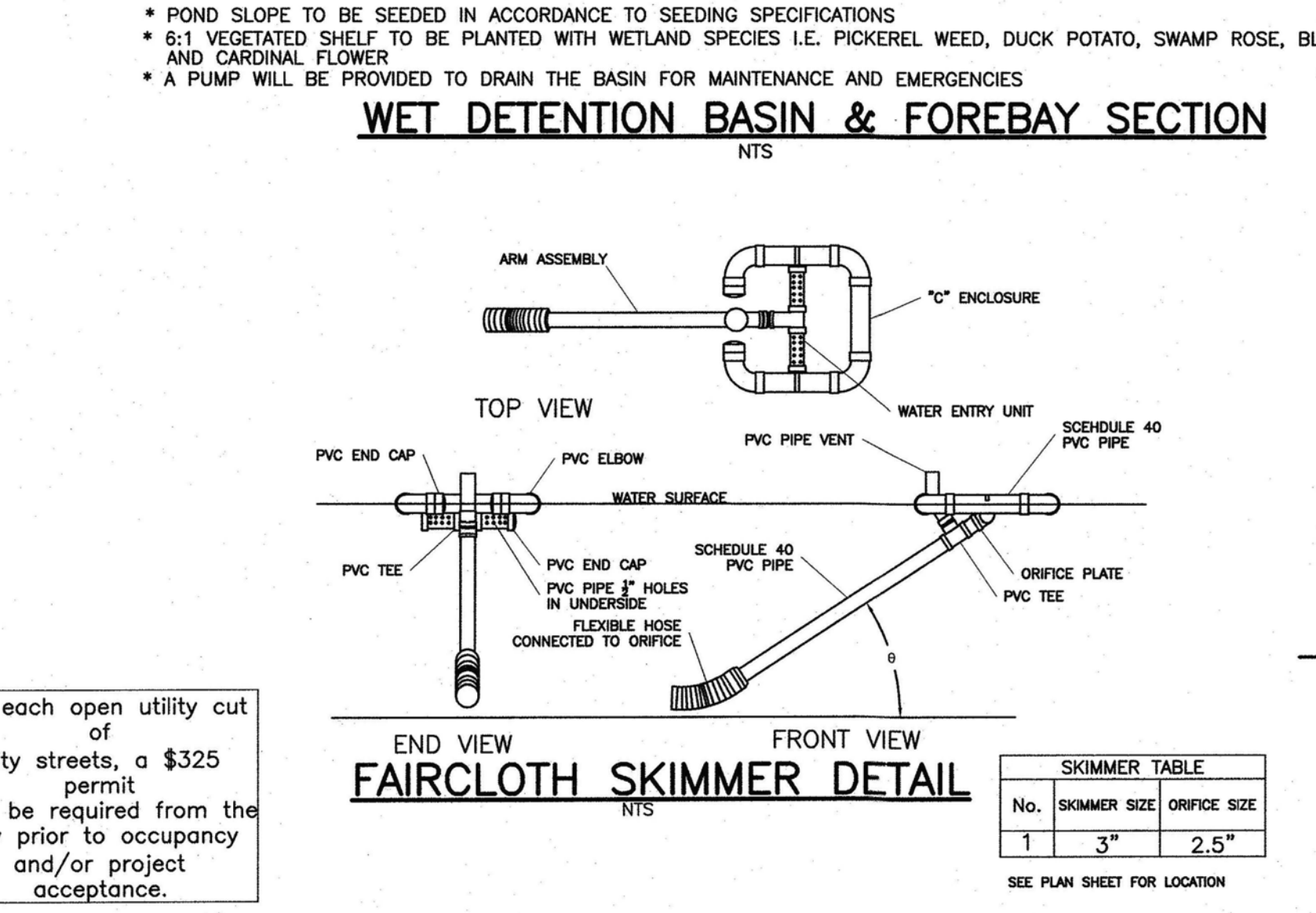
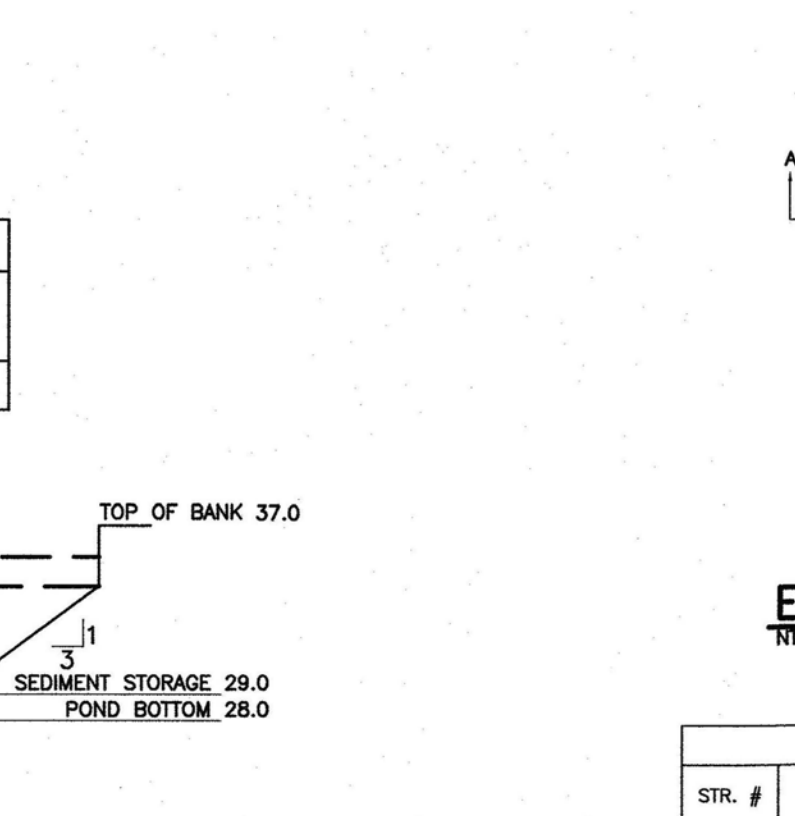
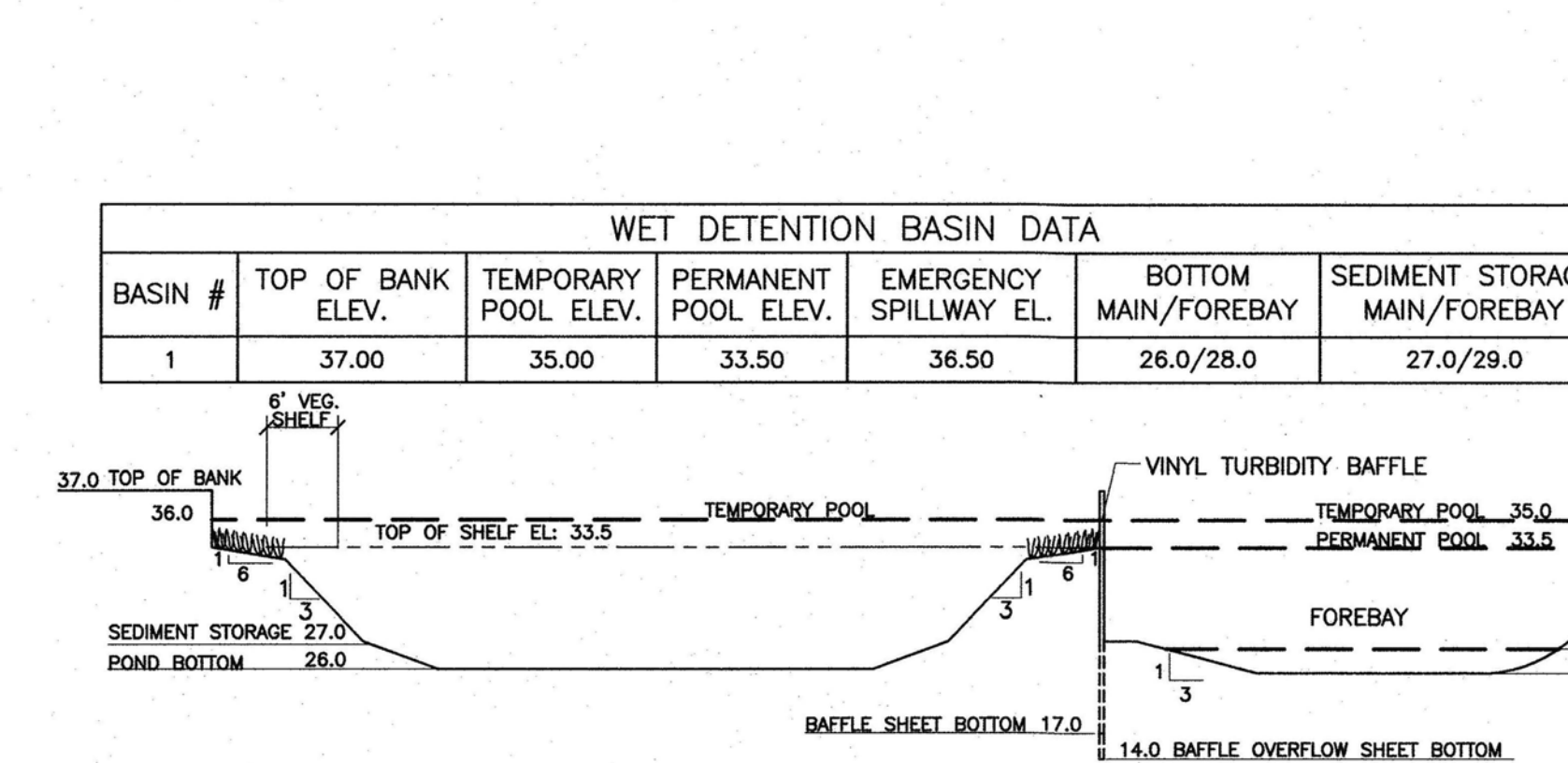
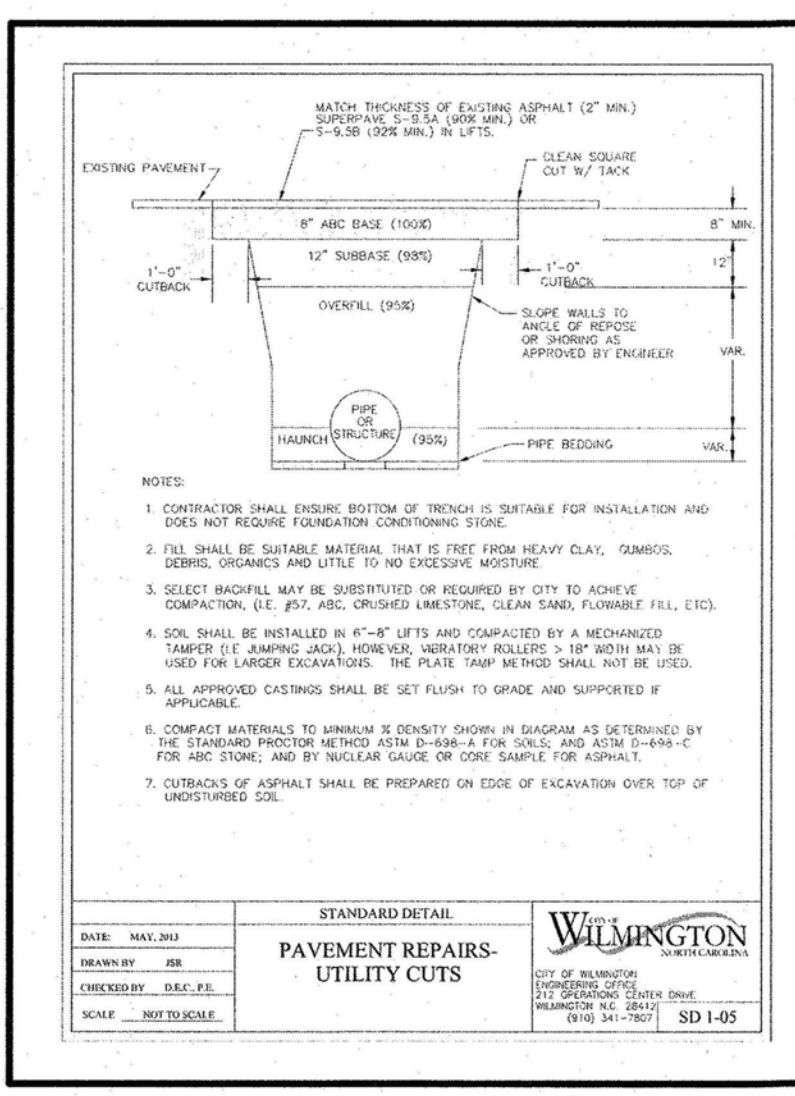
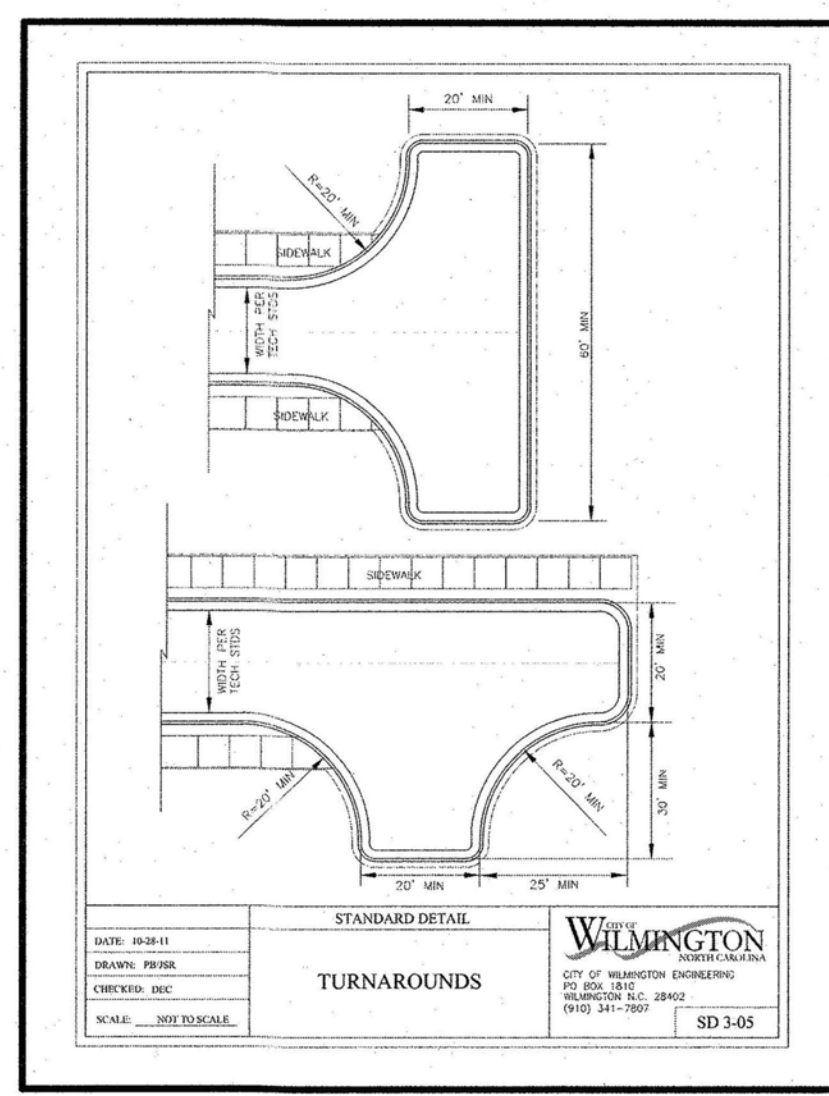
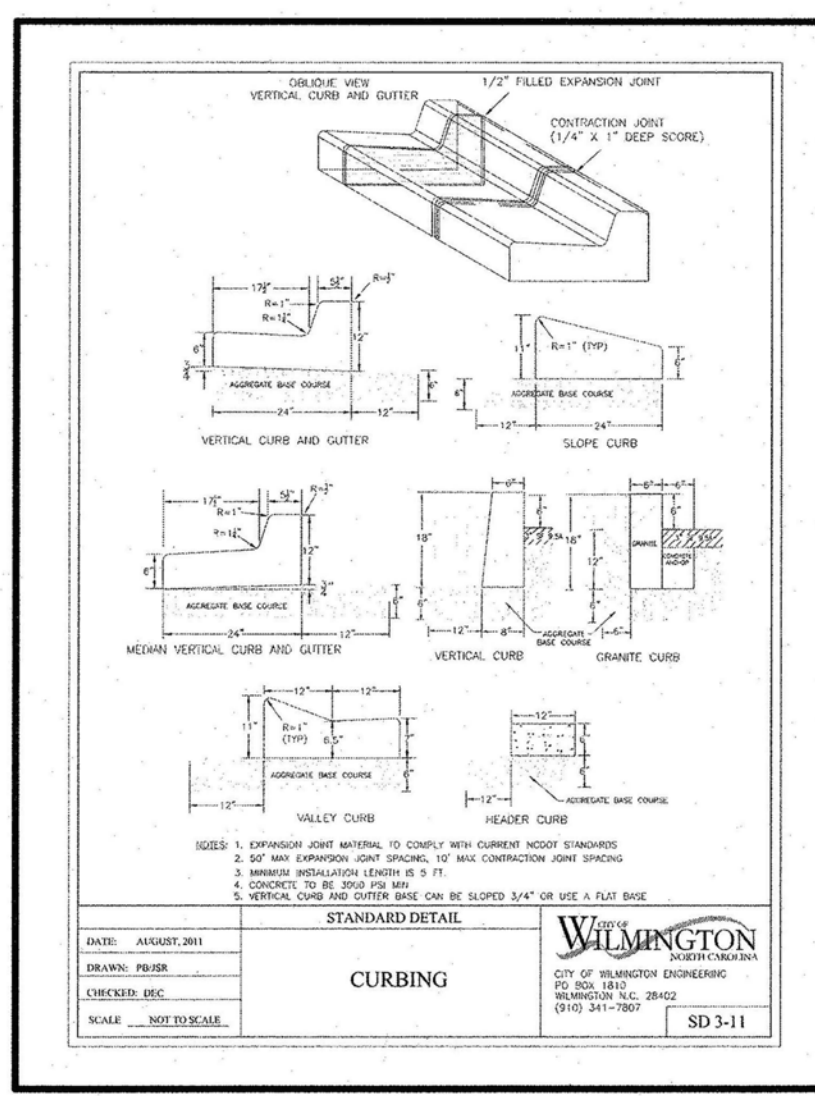
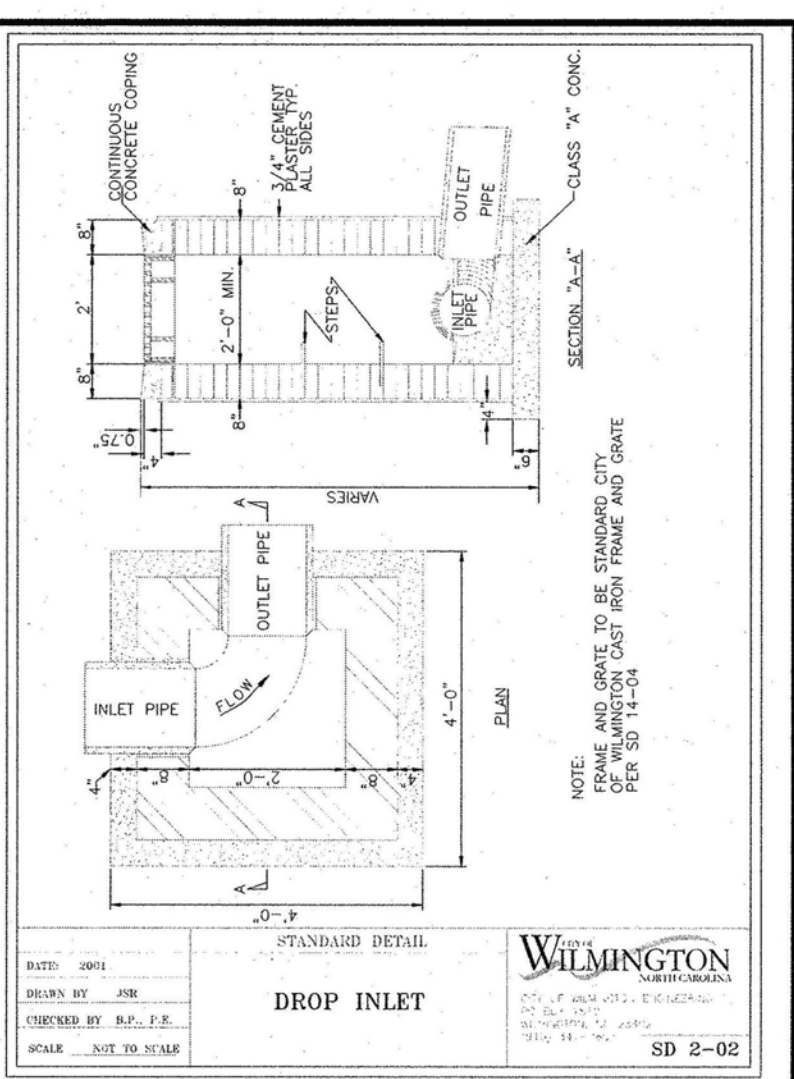
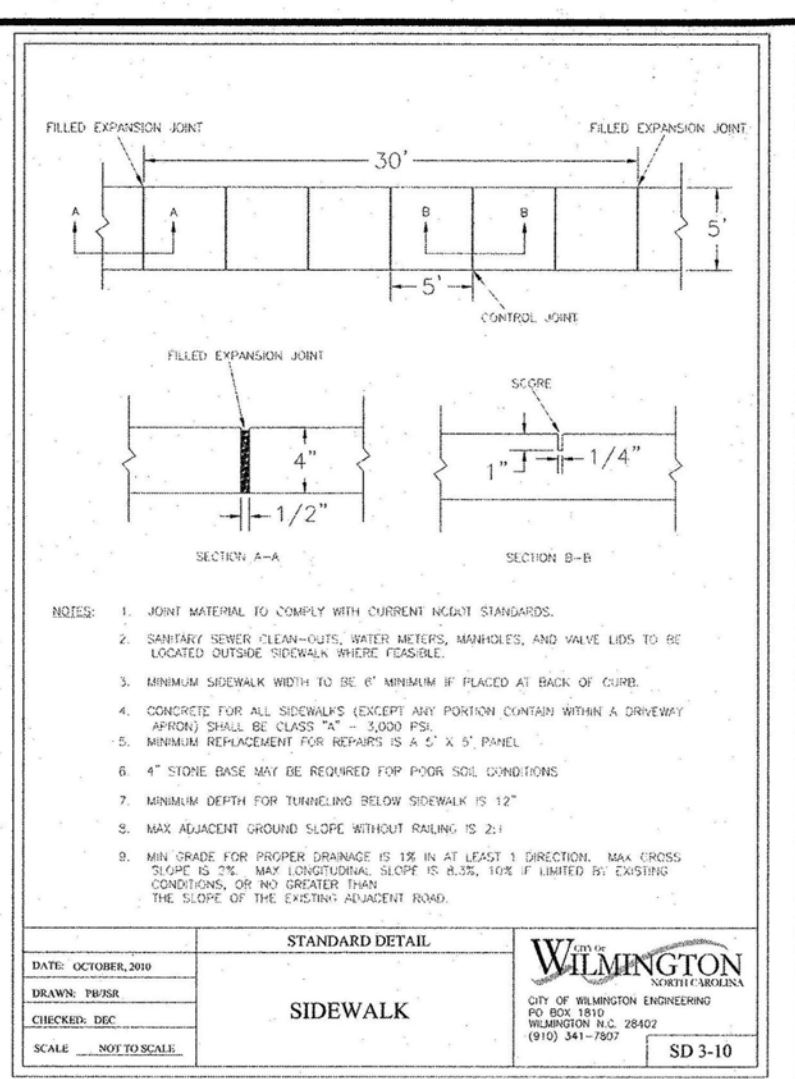
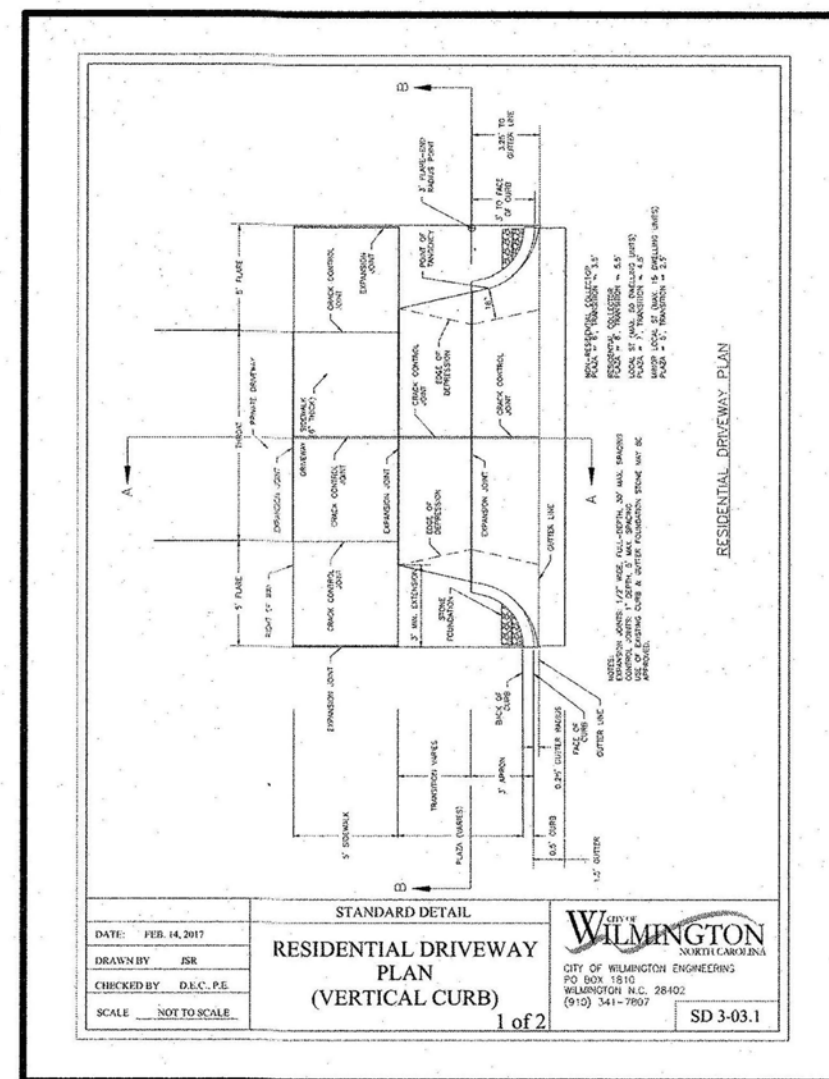
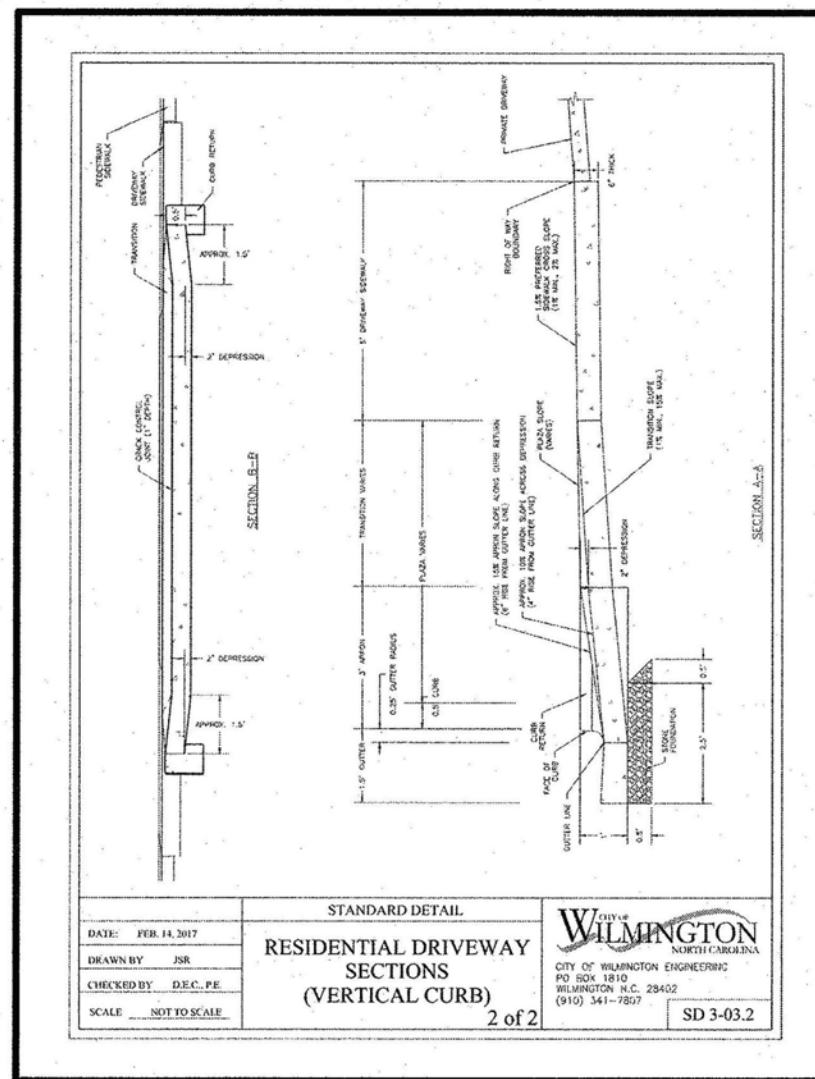
SEDIMENT BASINS

- OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
- USE ONLY DWQ-APPROVED FLOCCULANTS.

NPDES-SPECIFIC PLAN SHEETS NOTES

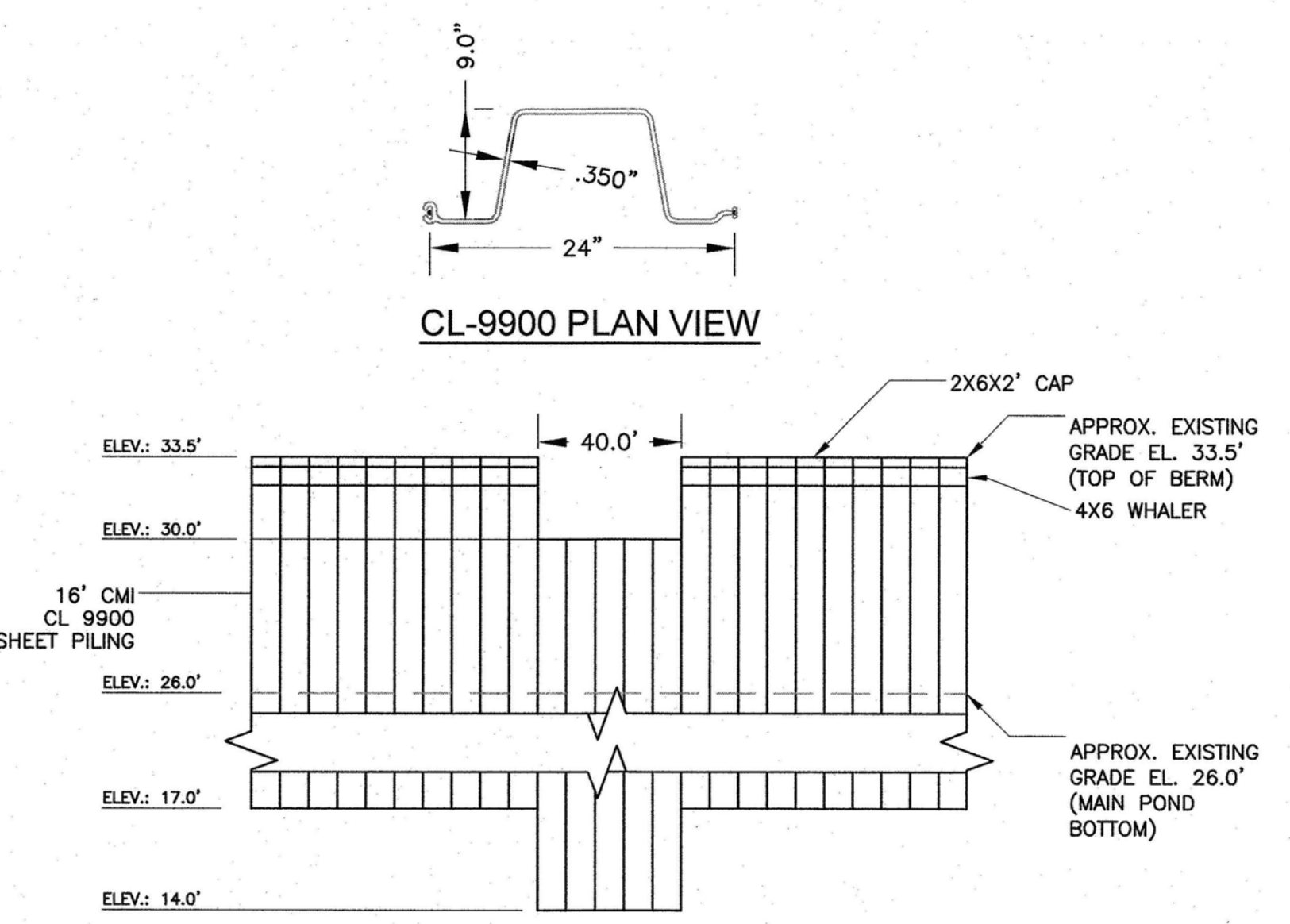
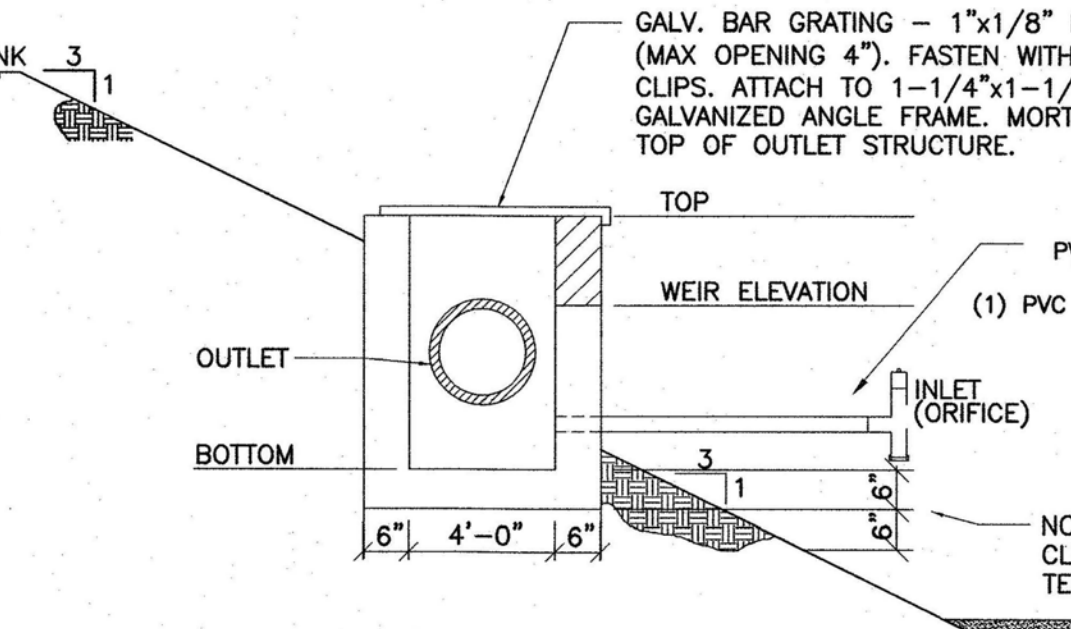
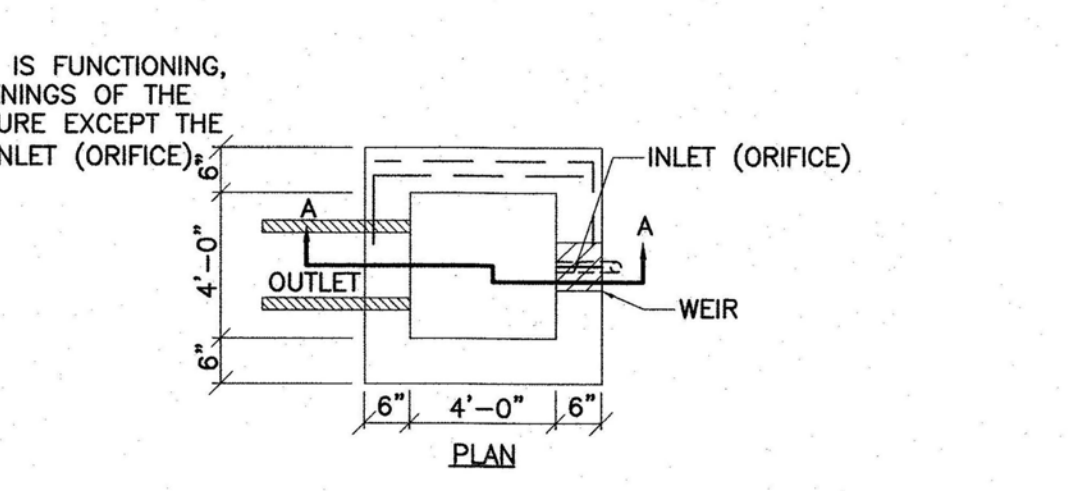
- THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCGO10000.
- THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCGO10000 ONLY.
- THIS PAGE OF THE APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCGO10000.
- THE COUNTY IS NOT AUTHORIZED TO ENFORCE THIS PAGE OF THE PLANS AND IT IS NOT A PART OF THE APPROVED PLANS FOR THE PURPOSES OF ENFORCEMENT ACTION UNDER THE COUNTY CODE.

DATE: 06-18-20
DESIGN: PGT
DRAWN: BJH
C5
SHEET 5 OF 7
19009

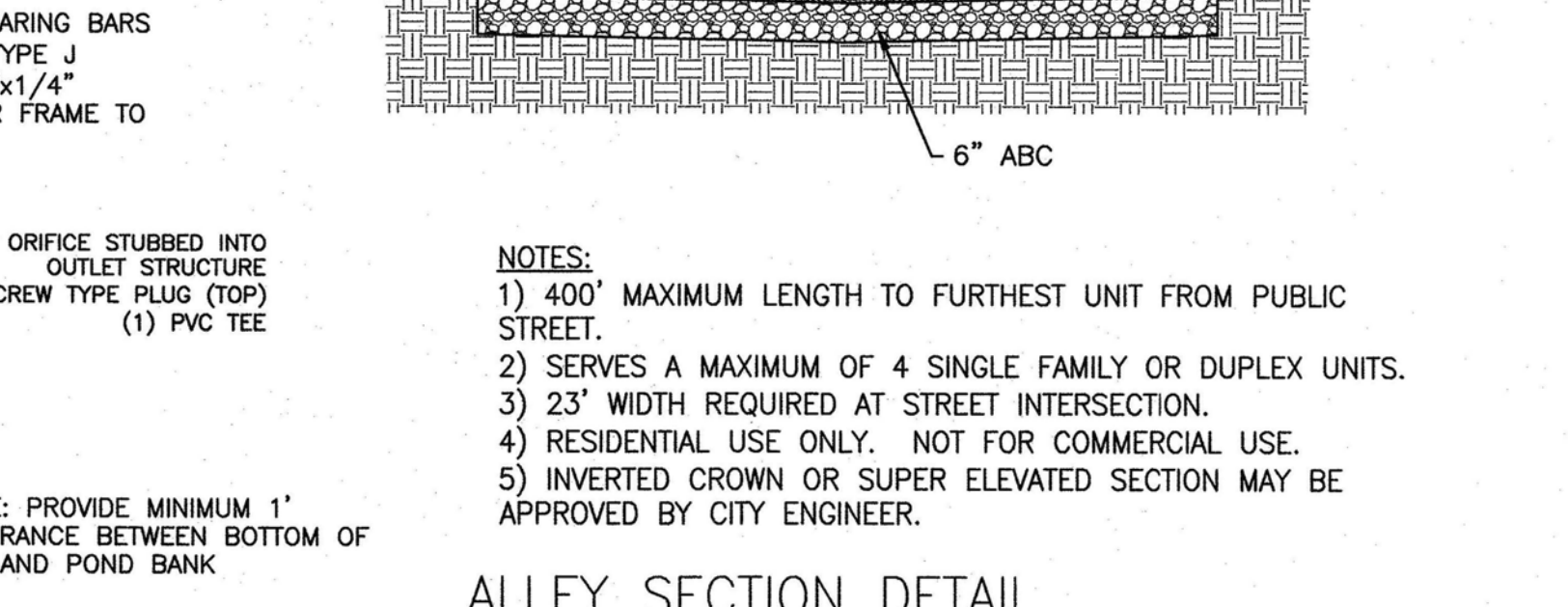
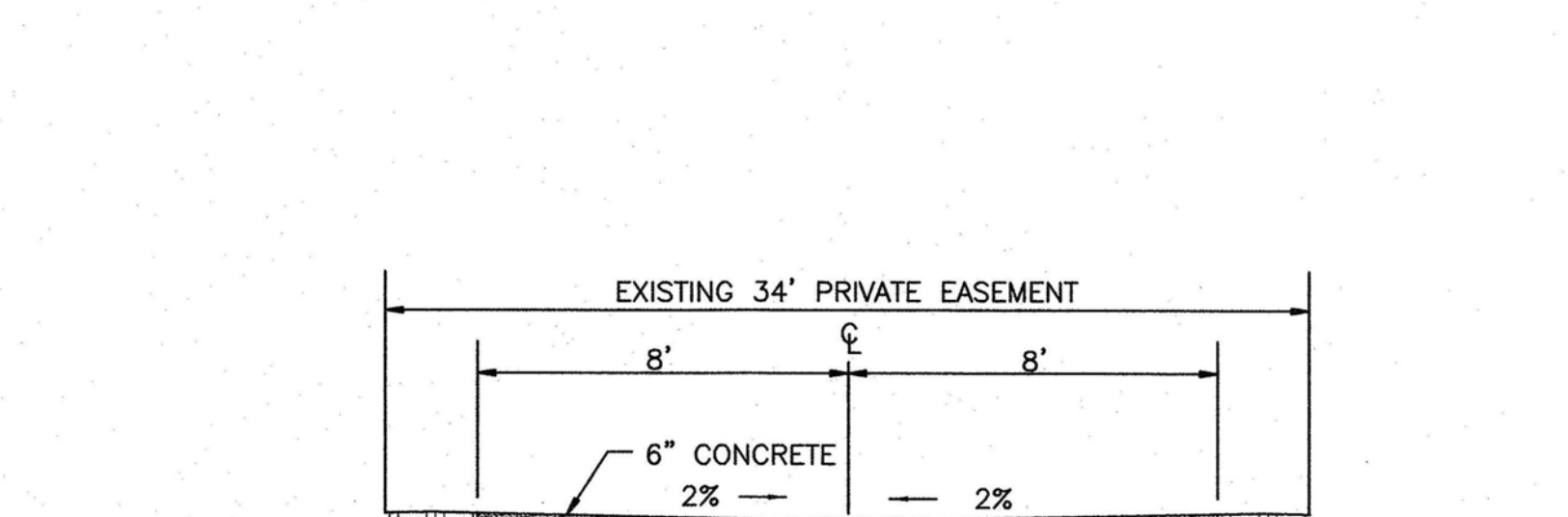


OUTLET STRUCTURE DATA

Basin #	Top Elev.	Bottom Elev.	Inlet (Orifice) Size/Invert	Outlet Size	Outlet Inv. In/Inv. Out	Weir Width	Weir Elevation
1	36.0	32.5	1.15"/33.5	12 inch	33.0/33.5	9"	35.0



VINYL SHEET PILE FOREBAY WALL
NTS



NOTES:
1) 400' MAXIMUM LENGTH TO FURTHEST UNIT FROM PUBLIC STREET.
2) SERVES A MAXIMUM OF 4 SINGLE FAMILY OR DUPLEX UNITS.
3) 23' WIDTH REQUIRED AT STREET INTERSECTION.
4) RESIDENTIAL USE ONLY. NOT FOR COMMERCIAL USE.
5) INVERTED CROWN OR SUPER ELEVATED SECTION MAY BE APPROVED BY CITY ENGINEER.

Approved Construction Plan
Date: 6/29/21
2020020
SWP #: 2021028
PO, CW, TB, MB, BM

NORMAL POOL TO SHELF TOP = 1,203 SF
50 PLANTS PER 200 SF = 301 PLANTS

PLANT TYPE	QTY	BOTANICAL NAME	COMMON NAME	ROOT CALIPER
HERBACEOUS	100	HIBISCUS Coccineus	Scarlet Rose	CONT. 4" POT
HERBACEOUS	100	EUPATORIUM DELPHICUM	Joe-Pye Weed	CONT. 4" POT
HERBACEOUS	101	ASCLAPAH INORNATA	Swamp Milkweed	CONT. 4" POT

REVISIONS

No./Date	Description	By
08-24-20	ADDED WATER	EJW
08-18-21	ADDED POND	BJH
08-24-21	COW COMMENTS	EJW
08-30-21	COW COMMENTS	EJW
08-03-21	COW SW	ACB
08-16-21	COW SW	ACB

DETAILS AND NOTES
WOODLAND PARK SUBDIVISION
WILMINGTON, NORTH CAROLINA

TRIPP ENGINEERING, P.C.
419 Chestnut Street
Wilmington, North Carolina 28401
Phone 910-763-5100
Fax 910-763-5631

DATE 06-18-20
DESIGN PGT
DRAWN BJH
C6
SHEET 6 OF 7
19009