

**SITE DATA**

PARCEL ID: R06515-003-022-000

ZONING: CB-(CD)

CAMA LAND USE CLASSIFICATION: URBAN

PROJECT ADDRESS: 3816 CAROLINA BEACH RD WILMINGTON, NC 28412

CURRENT OWNERS: THREE GUYS CAR WASH, LLC 5520 OLEANDER DR. WILMINGTON, NC 28403

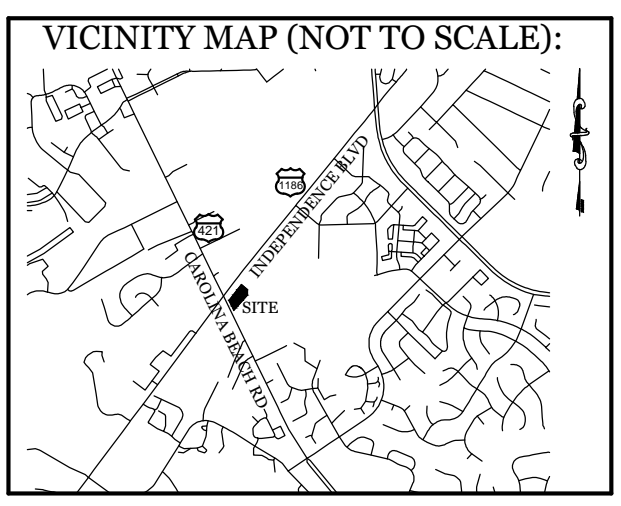
TOTAL ACREAGE IN PROJECT BOUNDARY: 65,656 S.F. (1.51AC.)

TOTAL DISTURBED AREA: 0.9 AC.

EXISTING ONSITE IMPERVIOUS AREAS: ASPHALT 4,471 S.F. (6.8%)

EXISTING ONSITE IMPERVIOUS AREAS BEING REMOVED: ASPHALT 600 S.F.

SOIL TYPE: Be (Baymead Fine Sand) 100.0% (Per the USDA websoil survey map)

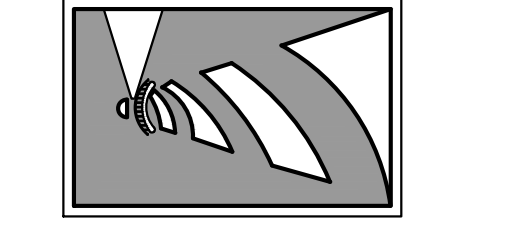


**REVISIONS**

11-22-22	ADDED DEAD 22" & 20" LAUREL OAKS TO BE REMOVED AND 15" LAUREL OAK TO BE RELOCATED.
6-9-22	REVISED SIDEWALK, PAY STATION AND DRIVE LOCATIONS.
10-4-22	REVISED S&S AND WATER SERVICE LOCATIONS; REVISED C.B. RD. RIGHT OF WAY DRAINAGE.

**INTRACOASTAL ENGINEERING, PLLC**

5725 Oleander Dr. Unit E-7  
Wilmington, North Carolina 28403  
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Email: charlie@intracoastalengineering.com  
License Number P-0662

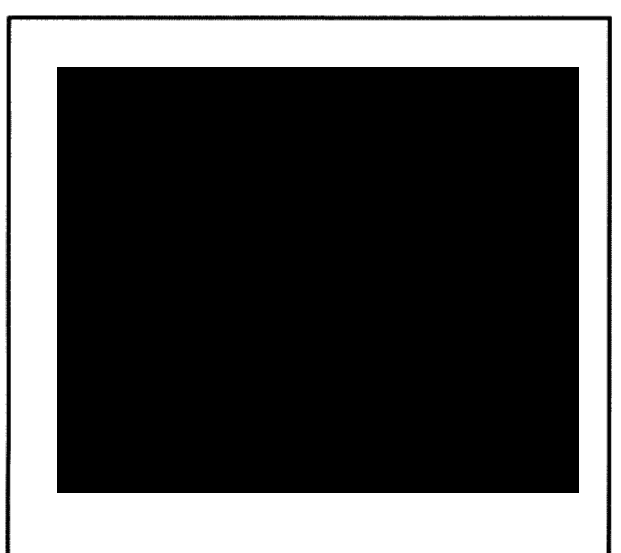


**EXISTING CONDITIONS, TREE REMOVAL & PROTECTION PLAN**

FOR

**H2 TURBO WASH WEST**

WILMINGTON, NORTH CAROLINA

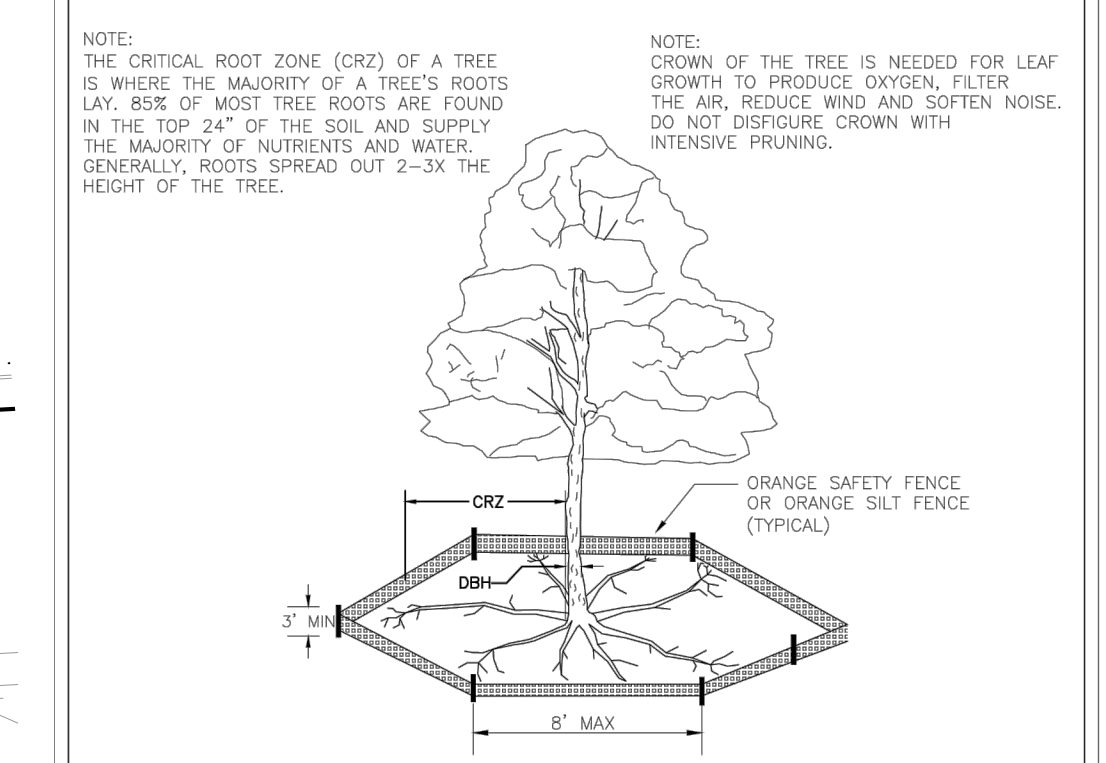


**CLIENT INFORMATION:**

Andy Lazzaro  
Three Guys Car Wash, Llc  
5520 Oleander Dr.  
Wilmington, NC 28403

DRAWN: JAE SHEET SIZE: 24 X 36  
CHECKED: CDC DATE: 1/31/2022  
APPROVED: CDC SCALE: 1" = 30'  
PROJECT NUMBER: 2021-035

DRAWING NUMBER: **C-0** 1 OF 7



- NOTES:**
- PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ. BARRIER SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
  - CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT BREAST HEIGHT (DBH).
  - IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
  - WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
  - FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
  - FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

DATE: JAN 2023  
DRAWN BY: JSR  
CHECKED BY: RGL/PE  
SCALE: NOT TO SCALE

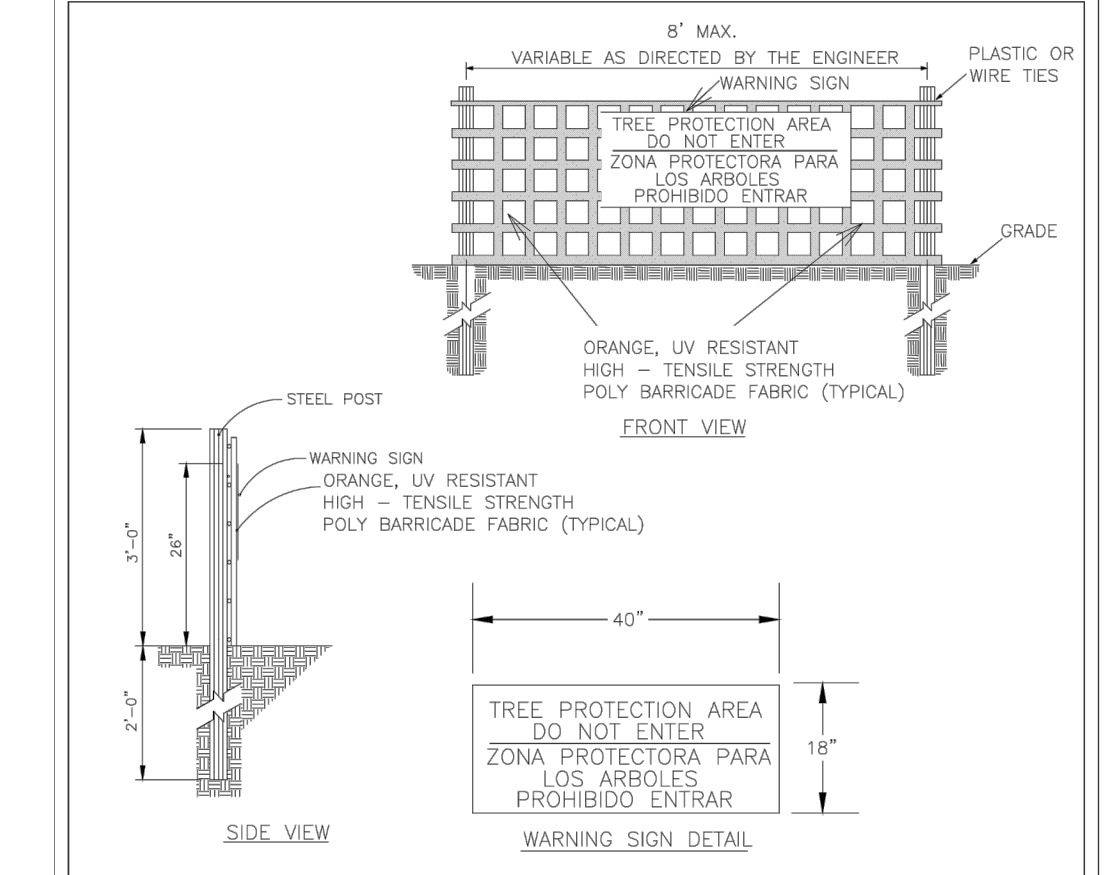
**STANDARD DETAIL**

**TREE PROTECTION DURING CONSTRUCTION**

SHEET 1 of 2

CITY OF WILMINGTON NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807

SD 15-09



**NOTES:**

- THE TREE PROTECTION FENCING SHALL NOT BE VIOLATED FOR THE ENTIRE DURATION OF THE PROJECT WITHOUT APPROVAL FROM URBAN FORESTRY STAFF.
- WARNING SIGNS TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL. LETTERS TO BE 3" HIGH, MINIMUM, CLEARLY LEGIBLE AND SPACED AS DETAILED.
- SIGNS SHALL BE PLACED AT 50' MAXIMUM INTERVALS. PLACE A SIGN AT EACH END OF LINEAR TREE PROTECTION AND 50' ON CENTER THEREAFTER. FOR TREE PROTECTION AREAS LESS THAN 100' IN PERIMETER, PROVIDE NO LESS THAN TWO SIGNS PER PROTECTION AREA.
- ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC. MAINTAIN TREE PROTECTION FENCE AND SIGNS THROUGHOUT DURATION OF PROJECT.
- TREE PROTECTION FENCING AND SIGNAGE SHALL BE REMOVED AFTER CONSTRUCTION.
- ADDITIONAL SIGNS MAY BE REQUIRED BY CITY OF WILMINGTON, BASED ON ACTUAL FIELD CONDITIONS.

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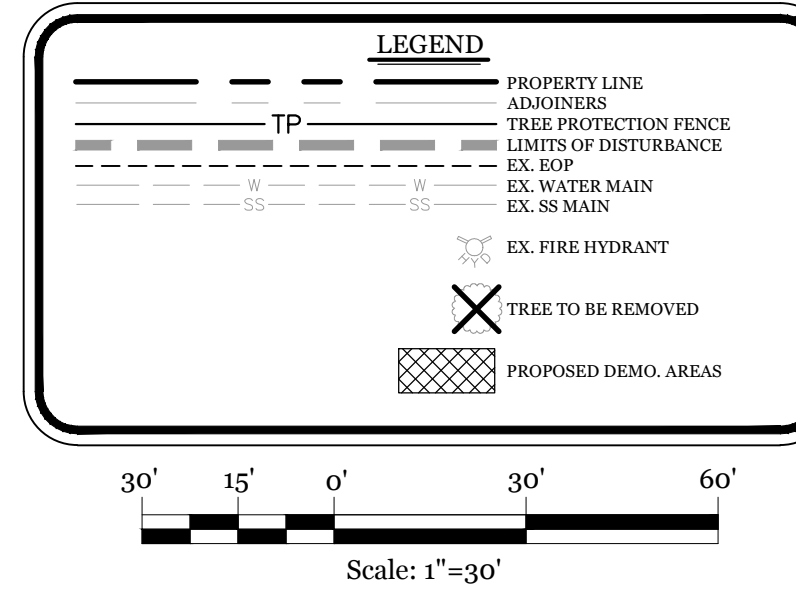
**STANDARD DETAIL**

**TREE PROTECTION DURING CONSTRUCTION**

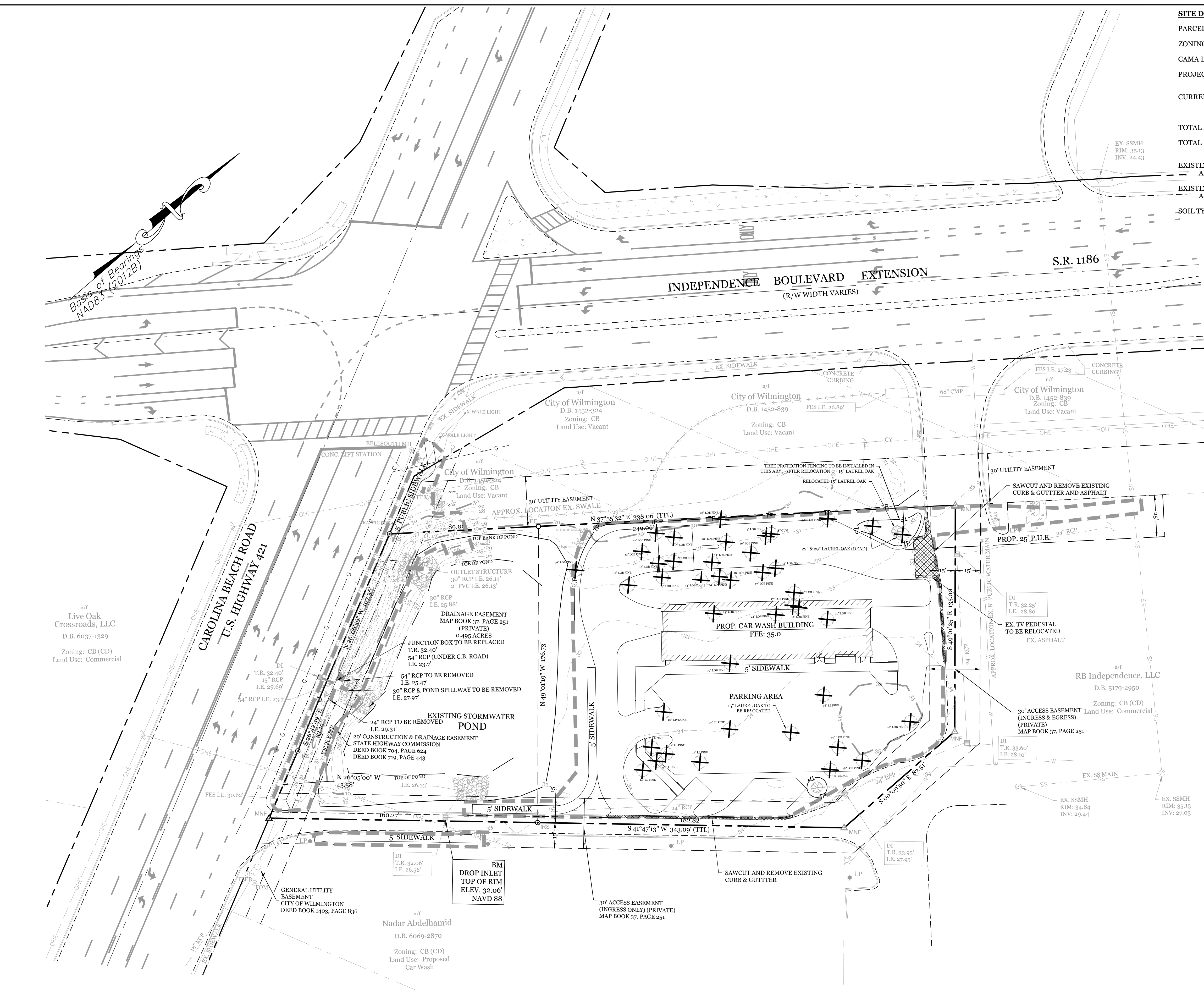
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- NOTES:**
- EXISTING SURVEY DATA PROVIDED BY VERNON DEREK DANFORD, PLS # L-4528
  - NO WETLANDS EXIST ON SITE.
  - PROPERTY IS LOCATED IN ZONE "X" ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP 3720312500K, DATED 08/28/18
  - THIS PROPERTY IS NOT AFFECTED BY AN AEC.
  - NO CONSERVATION RESOURCES EXIST ON SITE.
  - THIS PROPERTY IS NOT AFFECTED BY ANY HISTORIC OR ARCHAEOLOGICAL SITES.
  - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, A CONSTRUCTION ENTRANCE AND SILT FENCING SHALL BE INSTALLED.
  - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES.
  - NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  - TREE PROTECTION SIGNAGE SHALL BE ADDED ALONG THE LIMITS OF DISTURBANCE ADJACENT TO TREES EVERY 100' TO PROTECT TREES ADJACENT TO THE CONSTRUCTION SITE.

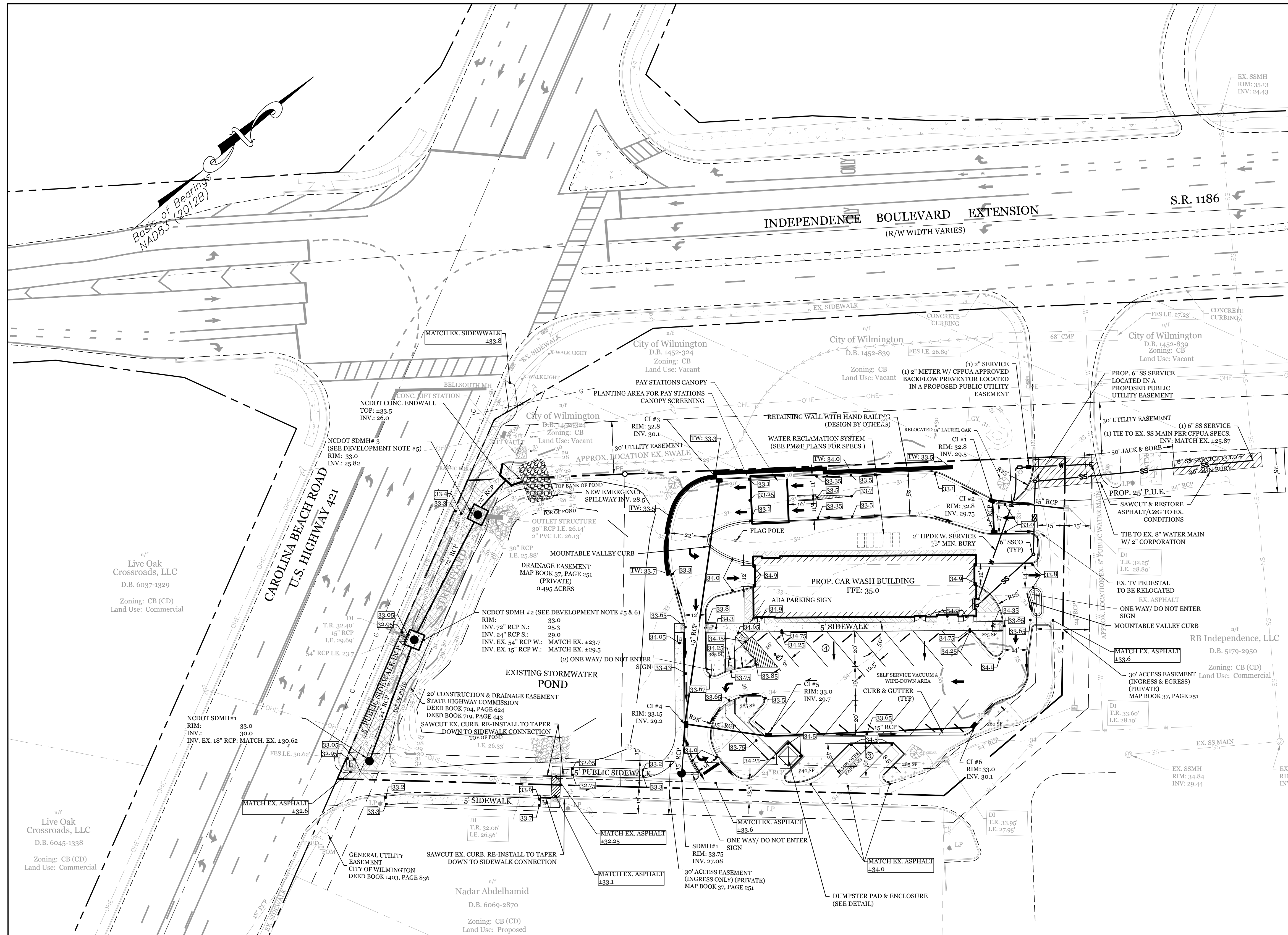


**REQUIRED TREE MITIGATION CHART**

QTY	SIZE	TYPE	% MITIGATION	REPLACEMENT TREE QTY
1	29"	LIVE OAK	100%	19.33
1	30"	LOB PINE	100%	20.00
<b>TOTAL REPLACEMENT TREES</b>				<b>39</b>

\* SEE LANDSCAPE PLAN BY OTHERS FOR REQUIRED MITIGATION.





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CAMA LAND USE CLASSIFICATION: URBAN

PROJECT ADDRESS: 3819 CAROLINA BEACH RD WILMINGTON, NC 28412

CURRENT OWNERS: THREE GUYS CAR WASH, LLC 5520 OLEANDER DR. WILMINGTON, NC 28403

TOTAL ACRES IN PROJECT BOUNDARY: 65,656 S.F. (1.51 AC.)

PROPOSED USE: AUTOMOBILE SERVICES (CAR WASH)

PROPOSED CONSTRUCTION TYPE: III-B (COMMERCIAL)

BUILDING SIZE: 4,305 S.F. (ROOF)

BUILDING HEIGHT: ±16/1 STORY (25' MAX PER ZONING)

BUILDING SETBACKS:

FRONT: REQUIRED= 20' PROPOSED= 162'

SIDE: REQUIRED= 0' PROPOSED= 46'1/108'R

REAR: REQUIRED= 10' PROPOSED= 50'

**CALCULATION FOR BUILDING COVERAGE:**

PROPOSED COVERAGE: 4,305 S.F. ÷ 65,656 S.F. = 6.6%

**PROPOSED ON-SITE IMPERVIOUS AREAS:**

BUILDING: 4,305 S.F.

PAY STATION CANOPY: 560 S.F.

CONCRETE PARKING AREA: 19,595 S.F.

CONCRETE SIDEWALK: 2,075 S.F.

CONCRETE RETAINING WALL: 420 S.F.

FUTURE: 3,210 S.F.

TOTAL: 30,174 S.F. (46.0%)

**TOTAL ON-SITE IMPERVIOUS AREA:**

EXISTING TO REMAIN: 3,871 S.F.

PROPOSED: 30,174 S.F.

TOTAL: 34,045 S.F. (51.9%)

**PROPOSED OFF-SITE IMPERVIOUS AREAS:**

CONCRETE SIDEWALK: 1,720 S.F.

**PARKING REQUIRED (4,000 S.F. CAR WASH):**

MIN: 1 PER 600 S.F. G.F.A.: 7 SPACES (1 H.C.)

MAX: 1 PER 400 S.F. G.F.A.: 10 SPACES

**PARKING PROVIDED=** 7 SPACES (1 H.C.)

**BICYCLE PARKING REQUIRED: (MIN. 5 PER 25-125 VEHICLE SPACES)**

REQUIRED: 0 SPACES

PROVIDED: 0 SPACES

**STRETYARD (MULTIPLIER: 18' MAX: 27' MIN: 9')**

REQUIRED: 184'-6"=178' X 18"= 3,204 S.F.

PROVIDED: 3,210 S.F.

**FOUNDATION PLANTINGS:**

EAST FACE REQUIRED (130 LF): 250 SF (2,080 SF X 12%)

PROVIDED: 300 SF

WEST FACE REQUIRED (130 LF): 250 SF (2,080 SF X 12%)

PROVIDED: 390 SF

NORTH FACE REQUIRED (31.5 LF): 105 SF

PROVIDED: 61 SF (504 SF X 12%)

SOUTH FACE REQUIRED (31.5 LF): 105 SF

PROVIDED: 75 SF

**EXISTING SEWER AND WATER DEMAND=** 0 GPD

**PROPOSED SEWER AND WATER DEMAND:**

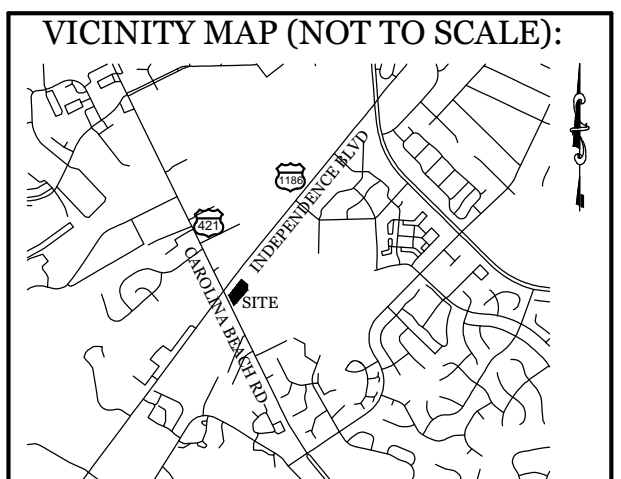
SEWER @ 25 GAL/PERSON = 150 GPD

WATER @ 140% SEWER USAGE = 210 GPD

**ESTIMATED TRIP GENERATION: (Per Trip Generation Manual, 10th Edition):**

4,000 AUTOMATED CAR WASH (ITE CODE 948)

AM PEAK: 49' PM PEAK: 57 DAILY: 228\*\*



**REVISIONS**

12-22-22 ADDED DEAD 25' & 20' LAUREL OAKS TO BE REMOVED AND 15' LAUREL OAK TO BE RELOCATED.

6-9-22 REVISED SIDEWALK, PAY STATION AND DRIVE LOCATIONS.

6-21-22 REVISED SS TIE-IN LOCATION.

10-4-22 REVISED SS AND WATER SERVICE LOCATIONS, REVISED C.B. RD. RIGHT OF WAY DRAINAGE.

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Email: charlie@intracoastalengineering.com  
License Number P-0662

**SITE, GRADING, DRAINAGE, & UTILITIES PLAN**

FOR

**H2 TURBO WASH WEST**

WILMINGTON, NORTH CAROLINA

**DEVELOPMENT NOTES:**

- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH CITY OF WILMINGTON ZONING ORDINANCE.
- PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE & CITY OF WILMINGTON REGULATIONS.
- RUNOFF FROM ALL IMPERVIOUS SURFACES, INCLUDING ROOF DRAINAGE, TO BE DIRECTED TO PIPED STORM DRAIN SYSTEM.
- ALL "5' PUBLIC SIDEWALK" ON SITE TO BE PROVIDED A 5' PUBLIC PEDESTRIAN ACCESS EASEMENT.
- CONTRACTOR TO SUBMIT SHOP DRAWINGS TO CITY ENGINEER AND NCDOT FOR APPROVAL.
- CONTRACTOR TO COORDINATE WITH CITY ENGINEER AND NCDOT TO DETERMINE WHETHER EXISTING BOX CAN BE UTILIZED.

**FIRE & SAFETY NOTES:**

- PROPOSED BUILDING WILL NOT BE SPRINKLED
- PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS.
- ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
- HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE.
- IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
- CONTRACTOR SHALL SUBMIT A RADIO SIGNAL STRENGTH STUDY FOR ALL COMMERCIAL BUILDINGS ON THE SITE THAT DEMONSTRATES THAT EXISTING EMERGENCY RESPONDER RADIO SIGNAL LEVELS MEET THE REQUIREMENTS OF SECTION 510 OF THE 2018 NC FIRE CODE.

**GENERAL TRAFFIC NOTES:**

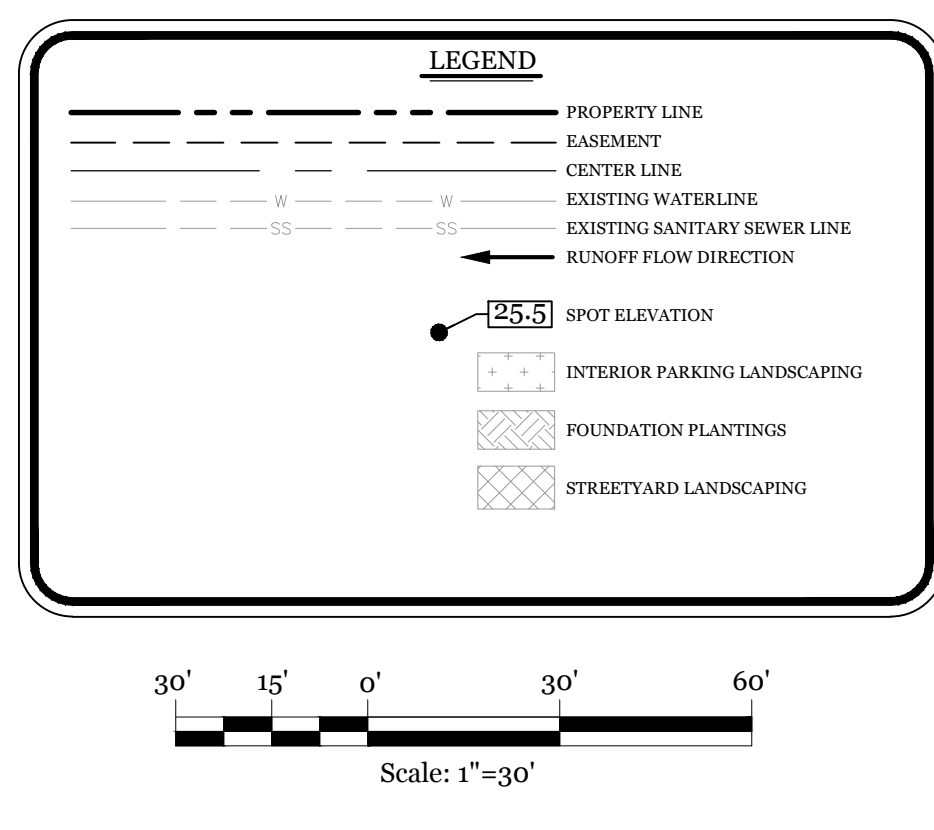
- ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS OFF THE R/W TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
- ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS. [DETAIL SD 15-13 & SD 11-3 COFW TECH STDS]
- ALL SIGNS AND PAVEMENT MARKINGS OFF RIGHT OF WAY ARE TO MEET/BE MAINTAINED TO MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS. [DETAIL SD 15-13 & SD 11-3 COFW TECH STDS]
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5899 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
- ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
- CONTACT 811 PRIOR TO CONTACTING CITY OF WILMINGTON, TRAFFIC ENGINEERING REGARDING THE UTILITIES IN ROW.
- ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.
- STREET TREES MUST BE LOCATED A MINIMUM OF 15 FEET FROM STREET LIGHTS. [COFW SD 15-17]
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5899 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.

**UTILITY NOTES:**

- EXISTING WATER AND SANITARY SEWER SERVICES ARE CURRENTLY AVAILABLE TO THE SITE FROM CAPE FEAR PUBLIC UTILITY AUTHORITY PUBLIC MAINS.
- ALL PROPOSED UTILITY SERVICES, SUCH AS ELECTRIC POWER, CATV, GAS & TELEPHONE SHALL BE INSTALLED UNDERGROUND.
- ALL WATER & SEWER UTILITIES TO BE INSTALLED PER CPFA TECHNICAL SPECIFICATIONS & STANDARDS.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CPFA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USFCCC/CHOR ASSN.
- IF CONTRACTOR DESIRES CPFA 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 AND SERVICES 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 NCR811 AT 811 OR 1-800-632-4949. 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 PROCESS FOR TELEPHONE CABLE PLACEMENT: \* FINAL GRADE WILL NEED TO BE ESTABLISHED. \* POWER WILL PLACE THEIR CABLE FIRST - APPROXIMATELY 2' DEEP. \* TELEPHONE & CABLE TV WILL THEN PLACE THEIR CABLE AT APPROXIMATELY 2' DEEP.
- SOLID WASTE DISPOSAL BY PRIVATE DUMPSTER SERVICE.
- SEPARATION REQUIRED BETWEEN ALL JOINTS, FITTINGS AND SERVICE SADDLES.
- NO FORMAL SITE LIGHTING IS PROPOSED. THERE MAY BE SOME SMALL LIGHTS INSTALLED ON THE BUILDING ITSELF.

**CD-15-520-M521 CONDITIONS:**

- The use and development of the subject property shall comply with all regulations and requirements imposed by the Land Development Code, the City of Wilmington Technical Standards and Specifications Manual and any other applicable federal, state or local law, ordinance or regulation, as well as any condition stated below. In the event of a conflict, the more stringent requirement or higher standard shall apply.
- Approval of this conditional district zoning does not constitute technical approval of the site plan. Final approval by the Technical Review Committee and the issuance of all required permits must occur prior to release of the project for construction.
- If, for any reason, any condition for approval is found to be illegal or invalid or if the applicant should fail to accept any condition following approval, the approval of the site plan for the district shall be null and void and no effect and proceedings shall be instituted to remove the property to its previous zoning classification.
- The use and development of the subject property shall be in accordance with the site plan as submitted and approved by City Council June 1, 2021.
- The proposed use shall be limited to a 4,160 square foot automotive service (vehicle wash).
- Signs shall be installed to promote safe vehicular travel along the access easement and interconnectivity to the adjacent property.
- Pedestrian network shall connect the proposed building to the existing sidewalk network along Independence Boulevard. The internal sidewalk will be located along the existing access easement.
- Any freestanding sign(s) on the site shall be a maximum of 6 feet in height, monument style with landscaping around the base of the sign; no pole signs shall be permitted.
- Plantings, in excess of the streetyard requirements, shall be installed along Carolina Beach Road, through the existing stormwater pond and proposed building, in accordance with TRC approval.
- The vehicle wash is required to have operational recycled water systems where a minimum of 50 percent of the water utilized is recycled.
- All City, State and Federal regulations shall be met.
- Additional plantings shall be provided to achieve an opaque screen for the payment station, located on the northwestern side of the vehicle wash building, and for the entrance bay door, located on the southwestern side of the vehicle wash building, to screen from the Independence Boulevard and Carolina Beach Road rights-of-way.



**CLIENT INFORMATION:**

Andy Lazzaro  
Three Guys Car Wash, Llc  
5520 Oleander Dr.  
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**DRAWN:** JAE **SHEET SIZE:** 24 X 36

**CHECKED:** CDC **DATE:** 1/31/2022

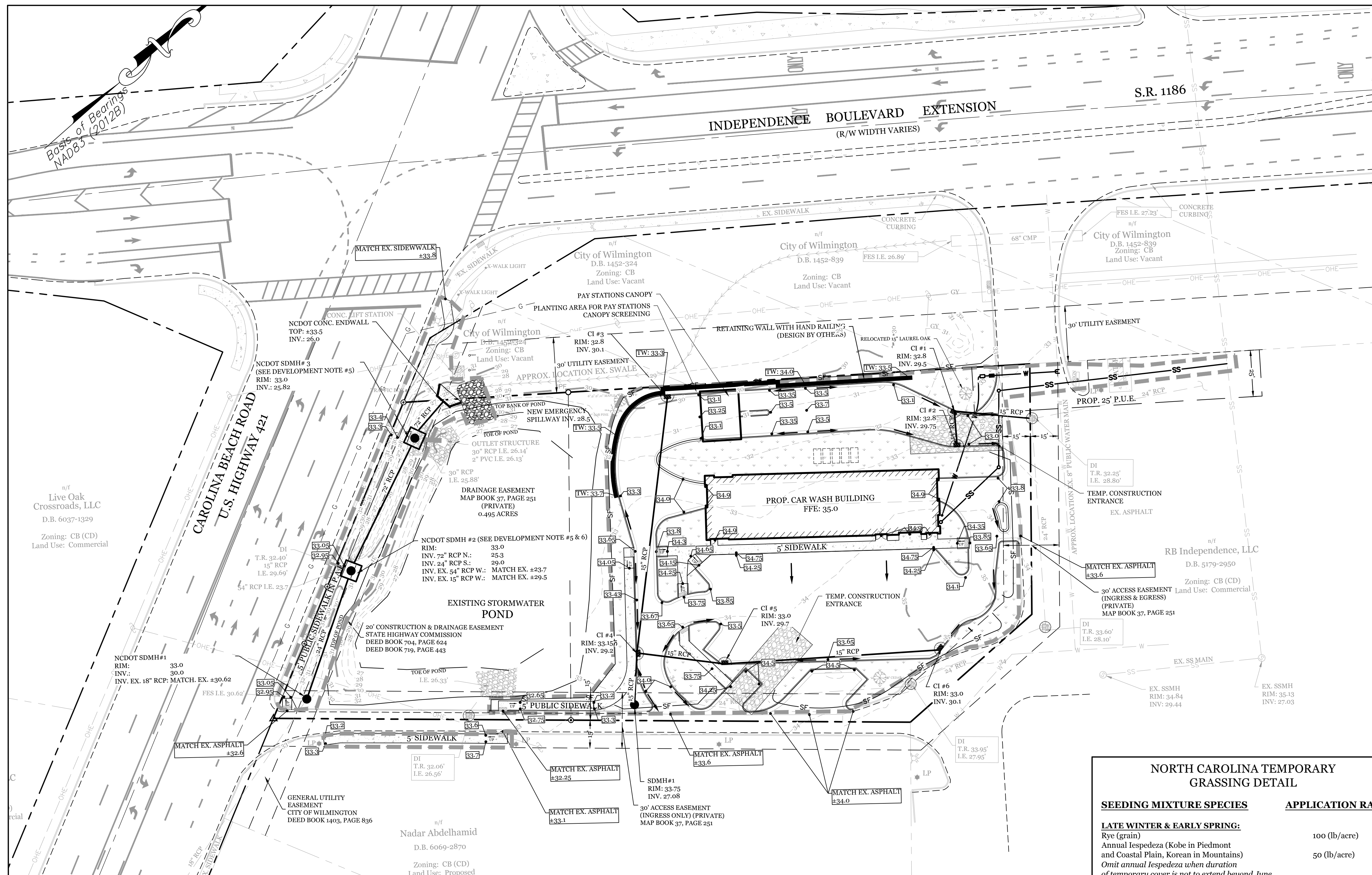
**APPROVED:** CDC **SCALE:** 1" = 30'

**PROJECT NUMBER:** 2021-035

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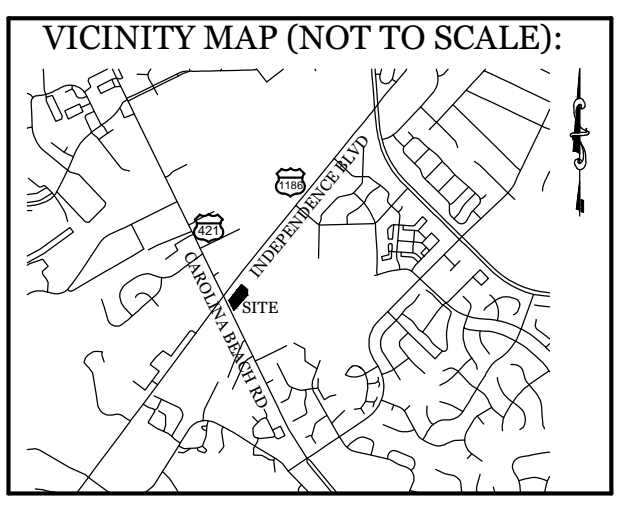
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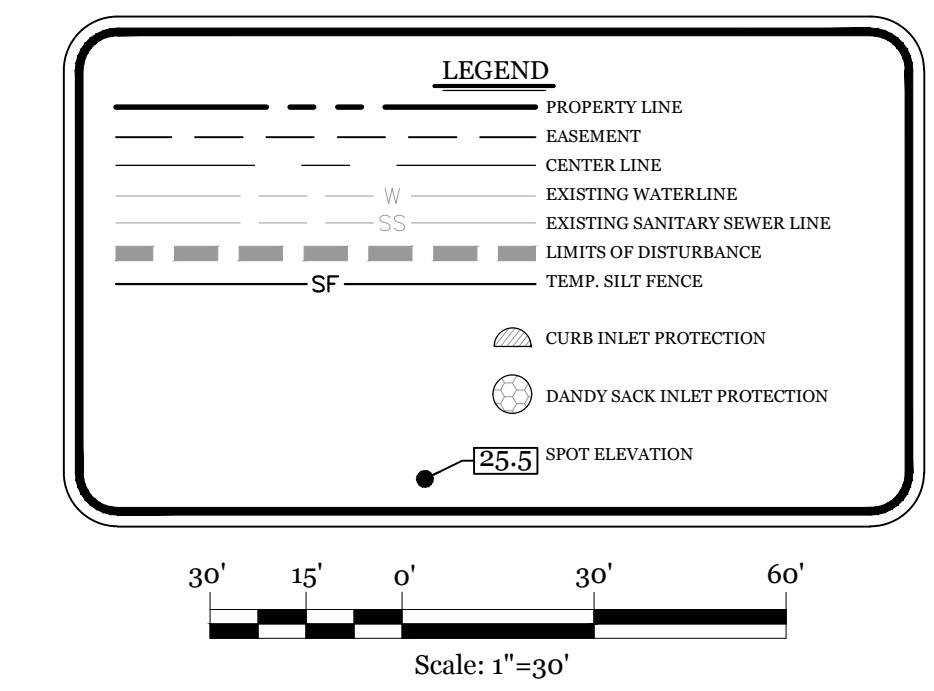
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6-9-22	REVISED SIDEWALK, PAY STATION AND DRIVE LOCATIONS.
6-21-22	REVISED 85 TIE-IN LOCATION.
10-4-22	REVISED 85 AND WATER SERVICE LOCATIONS, REVISED C.B. RD. RIGHT OF WAY DRAINAGE, MOVED TEMP. CONST. ENTRANCE DETAIL FROM SHEET C3.



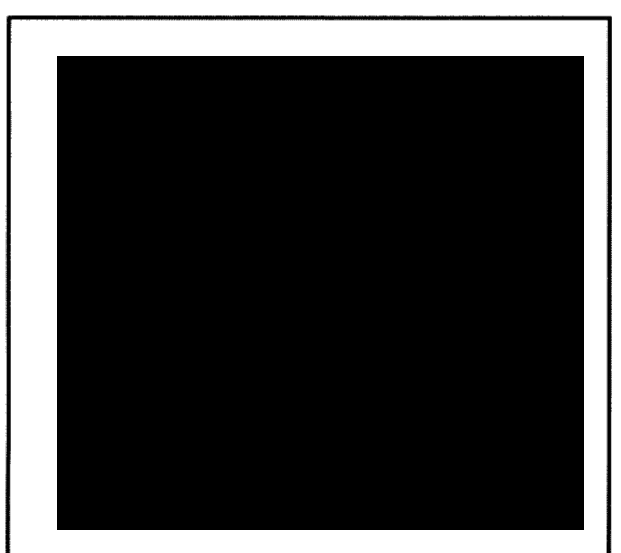
SYMBOL	GROUND STABILIZATION CRITERIA		
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION EXCEPTIONS
[Symbol]	* Perimeter dikes, swales, ditches and slopes	7 Days	None
[Symbol]	* High Quality Water (HQW) Zones	7 Days	None
[Symbol]	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in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

**INTRACOASTAL ENGINEERING, PLLC**

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Wilmington, North Carolina 28403  
Phone: 910.859.8983  
Email: [charlie@intracoastalengineering.com](mailto:charlie@intracoastalengineering.com)  
License Number P-0662

**SEDIMENTATION & EROSION CONTROL PLAN**

FOR  
**H2 TURBO WASH WEST**  
WILMINGTON, NORTH CAROLINA



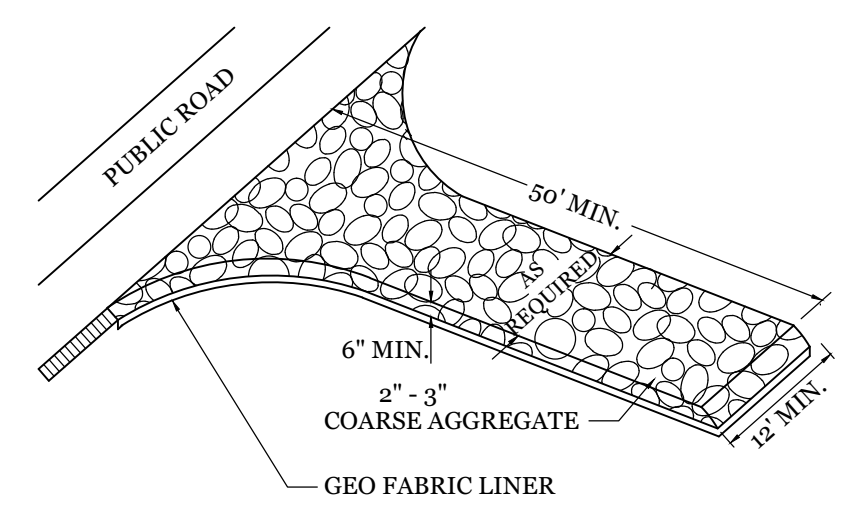
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CHECKED:	CDC	DATE:	1/31/2022
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PROJECT NUMBER:	2021-035		

DRAWING NUMBER: **C-2** 3 OF 7

- 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 2-3 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 DOUGHNUT INLET PROTECTION, SEDIMENT TRAP Baffles, 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 BEAVER DAMS, 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 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.
- 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 IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 7-14 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 HAS BEEN INSTALLED.
  - NO CUT SLOPE OR FILL 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. 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.



**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
NTS

**NORTH CAROLINA TEMPORARY GRASSING DETAIL**

SEEDING MIXTURE SPECIES	APPLICATION RATE
<b>LATE WINTER &amp; EARLY SPRING:</b> Rye (grain)	100 (lb/acre)
Annual Lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains) <i>Omit annual lespedeza when duration of temporary cover is not to extend beyond June</i>	50 (lb/acre)
<b>SUMMER:</b> German Millet In the Piedmont and Mountains, a small-stemmed sundgrass may be substituted at a rate of 50 (lb/acre)	40 (lb/acre)
<b>FALL:</b> Rye (grain)	120 (lb/acre)

**NORTH CAROLINA PERMANENT GRASSING DETAIL**

SEEDING MIXTURE SPECIES	APPLICATION RATE
<b>FALL &amp; WINTER:</b> Tall Fescue (blend of two or three improved varieties) Rye (grain)	200 (lb/acre) 25 (lb/acre)
<b>SPRING &amp; SUMMER:</b> Pensacola Bahiagrass Sericea Lespedeza Common Bermudagrass German Millet Tall Fescue	50 (lb/acre) 30 (lb/acre) 10 (lb/acre) 10 (lb/acre) 50 (lb/acre)

**SEEDING DATES**

**FALL & WINTER:**  
January - April  
August - December

**SOIL AMENDMENTS:**  
Apply lime and fertilizer according to soil tests, or apply 3,000-5,000 lb/acre ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre 10-10-10 fertilizer.

**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 2.5-3.5 inches as needed.

**SPRING & SUMMER:**  
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.

**MAINTENANCE:**  
Refertilize the following april with 50 lb/acre nitrogen. Repeat as growth requires. may be mowed only once a year. Where a neat appearance is desired, omit sericea and mow as often as needed.

**MULCH:**  
apply 4,000 lb/acre straw, anchor straw by tacking 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.

**NORTH CAROLINA TEMPORARY GRASSING DETAIL**

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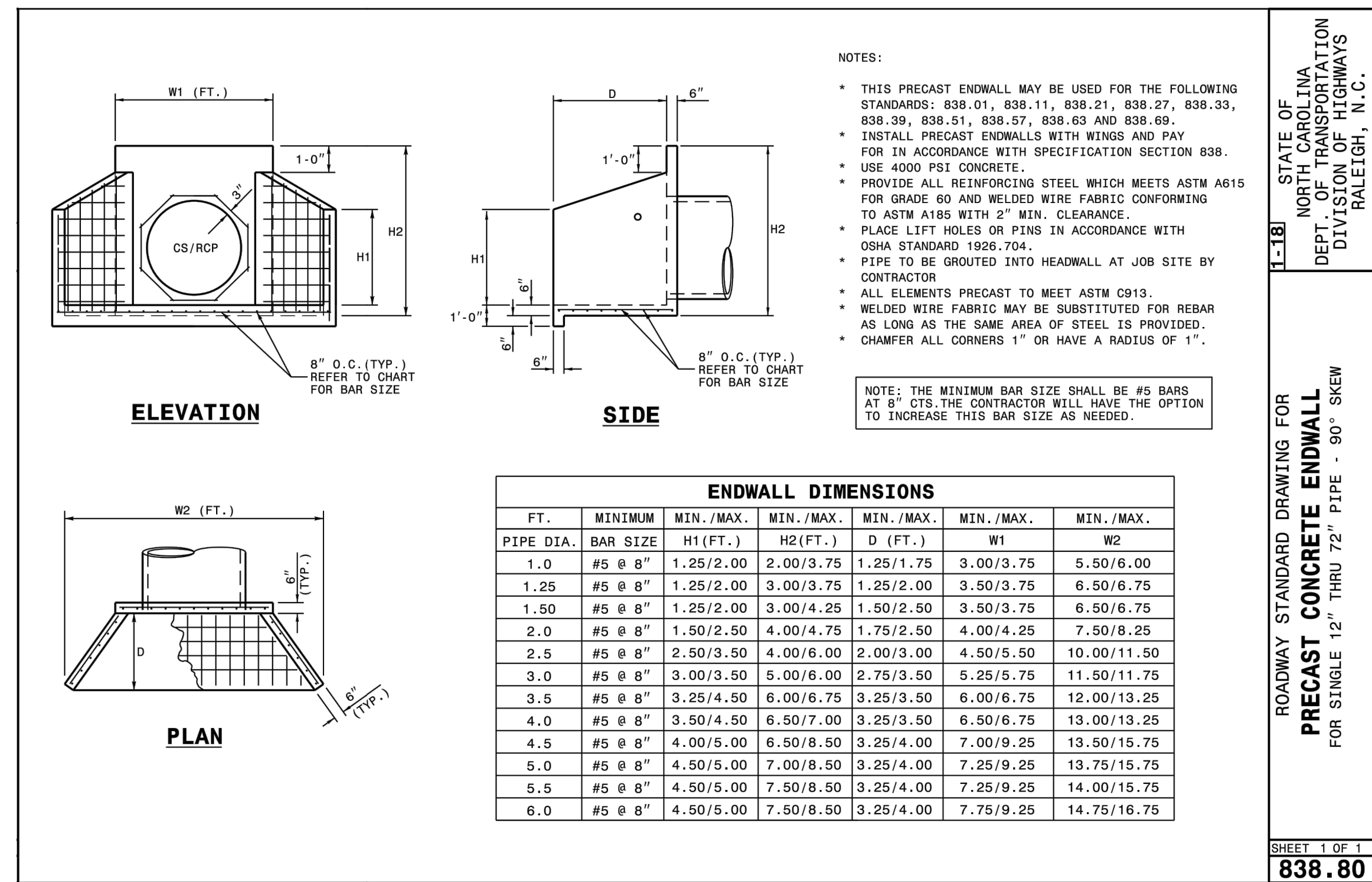
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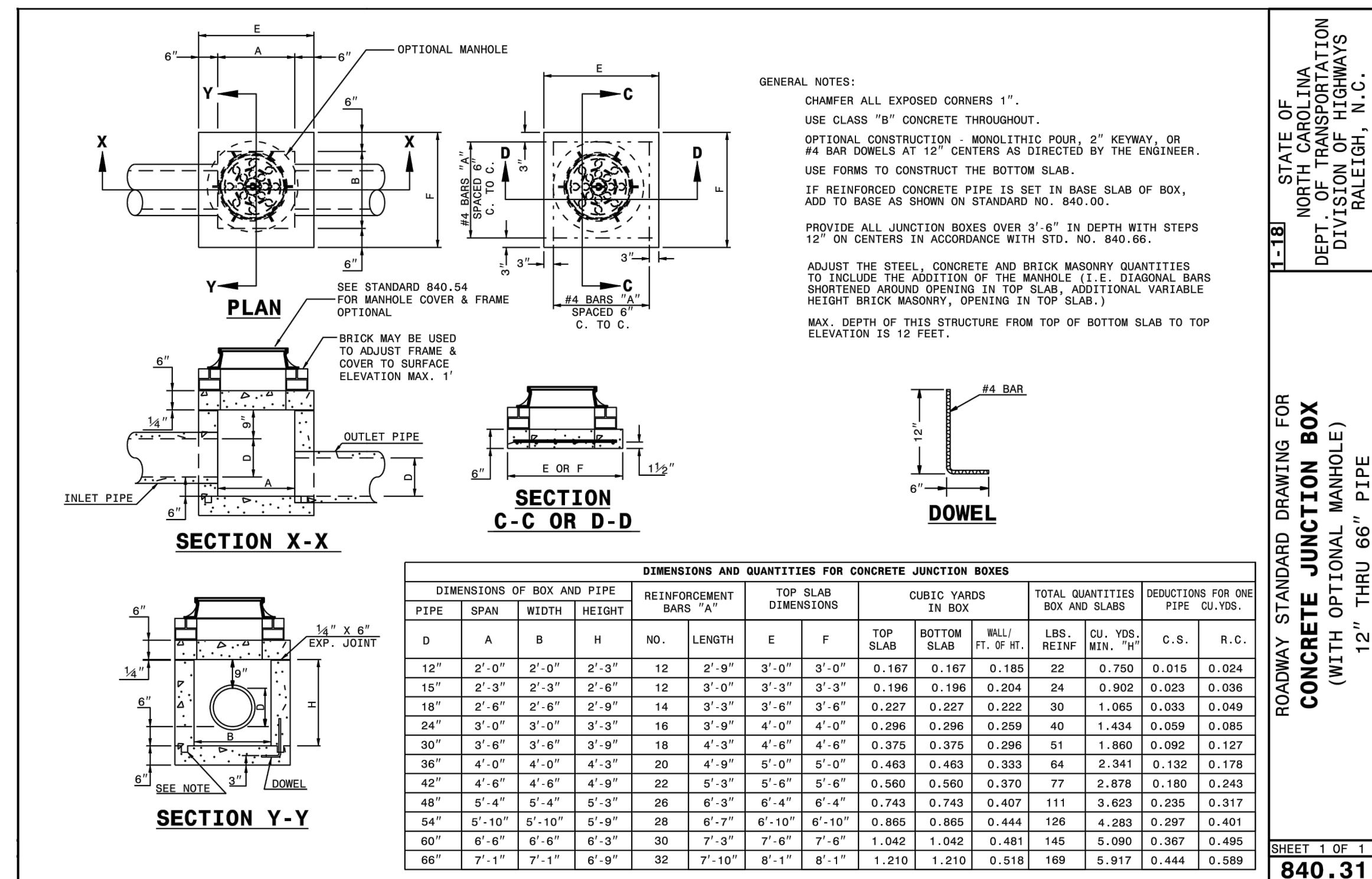


ENDWALL DIMENSIONS						
PIPE DIA.	BAR SIZE	H1 (FT.)	H2 (FT.)	D (FT.)	W1	W2
1.0	#5 @ 8"	1.25/2.00	2.00/3.75	1.25/1.75	3.00/3.75	5.50/6.00
1.25	#5 @ 8"	1.25/2.00	3.00/3.75	1.25/2.00	3.50/3.75	6.50/6.75
1.50	#5 @ 8"	1.25/2.00	3.00/4.25	1.50/2.50	3.50/3.75	6.50/6.75
2.0	#5 @ 8"	1.50/2.50	4.00/4.75	1.75/2.50	4.00/4.25	7.50/8.25
2.5	#5 @ 8"	2.50/3.50	4.00/6.00	2.00/3.00	4.50/5.50	10.00/11.50
3.0	#5 @ 8"	3.00/3.50	5.00/6.00	2.75/3.50	5.25/5.75	11.50/11.75
3.5	#5 @ 8"	3.25/4.50	6.00/6.75	3.25/3.50	6.00/6.75	12.00/13.25
4.0	#5 @ 8"	3.50/4.50	6.50/7.00	3.25/3.50	6.50/6.75	13.00/13.25
4.5	#5 @ 8"	4.00/5.00	6.50/8.50	3.25/4.00	7.00/9.25	13.50/15.75
5.0	#5 @ 8"	4.50/5.00	7.00/8.50	3.25/4.00	7.25/9.25	13.75/15.75
5.5	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.25/9.25	14.00/15.75
6.0	#5 @ 8"	4.50/5.00	7.50/8.50	3.25/4.00	7.75/9.25	14.75/16.75

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**PRECAST CONCRETE ENDWALL**  
FOR SINGLE 12" THRU 72" PIPE - 90° SKEW

SHEET 1 OF 1  
**838.80**

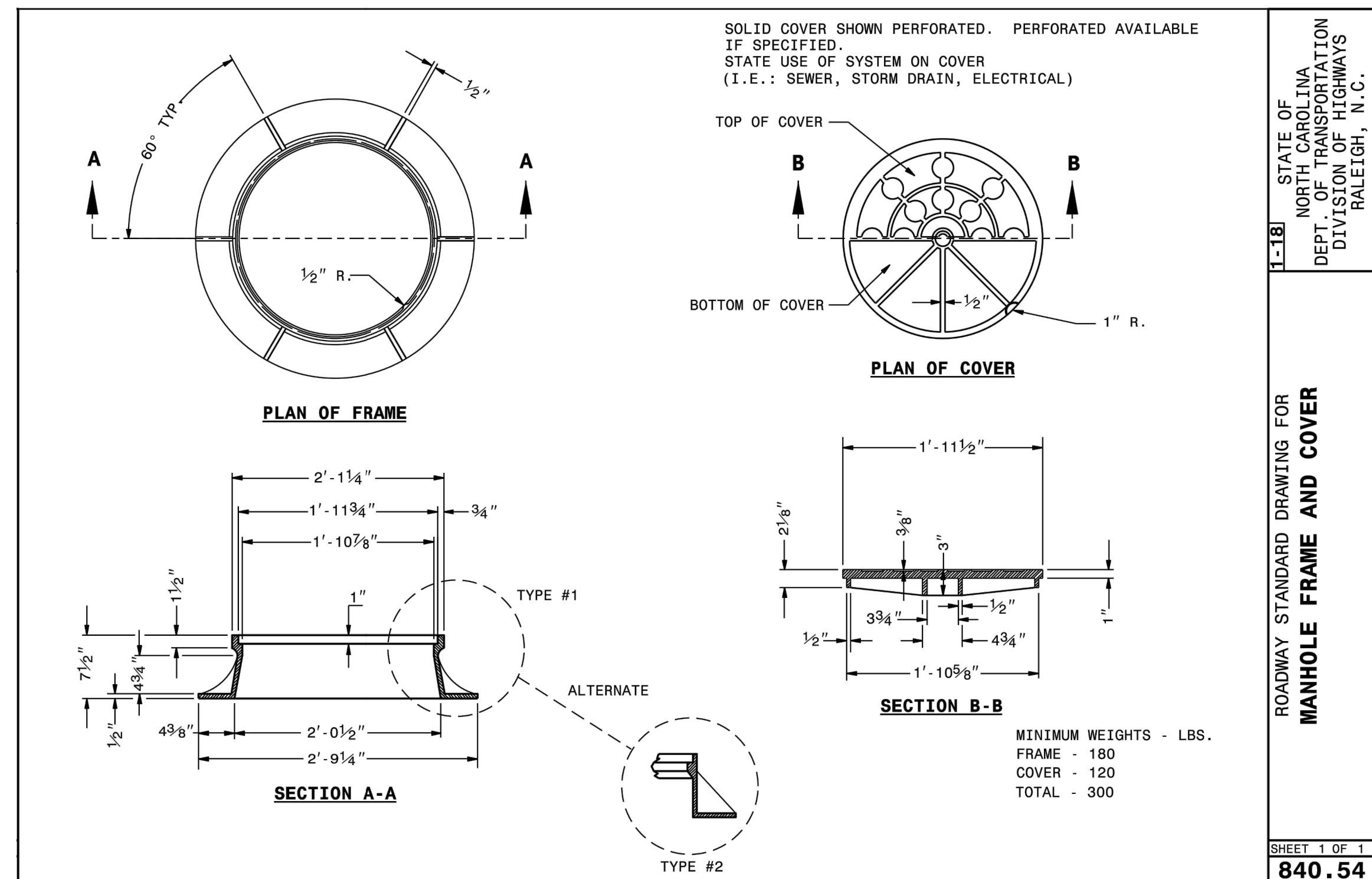


DIMENSIONS AND QUANTITIES FOR CONCRETE JUNCTION BOXES														
PIPE DIA.	DIMENSIONS OF BOX AND PIPE			REINFORCEMENT BARS "A"	TOP SLAB DIMENSIONS			CUBIC YARDS IN BOX		TOTAL QUANTITIES BOX AND SLAB		DEDUCTIONS FOR ONE PIPE CU.YDS.		
	SPAN	WIDTH	HEIGHT		NO.	LENGTH	E	F	TOP SLAB	BOTTOM SLAB	WLL REINF.	LBS. MIN.	C.S.	R.C.
12"	2'-0"	2'-0"	2'-3"	12	2'-9"	3'-0"	3'-0"	0.167	0.167	0.165	22	0.750	0.015	0.024
15"	2'-3"	2'-3"	2'-6"	12	3'-0"	3'-3"	3'-3"	0.196	0.196	0.204	24	0.902	0.023	0.036
18"	2'-6"	2'-6"	2'-9"	14	3'-3"	3'-6"	3'-6"	0.227	0.227	0.222	30	1.065	0.033	0.049
24"	3'-0"	3'-0"	3'-3"	16	3'-9"	4'-0"	4'-0"	0.296	0.296	0.299	40	1.434	0.059	0.085
30"	3'-6"	3'-6"	3'-9"	18	4'-3"	4'-6"	4'-6"	0.375	0.375	0.296	51	1.860	0.092	0.127
36"	4'-0"	4'-0"	4'-3"	20	4'-9"	5'-0"	5'-0"	0.463	0.463	0.333	64	2.341	0.132	0.178
42"	4'-6"	4'-6"	4'-9"	22	5'-3"	5'-6"	5'-6"	0.560	0.560	0.370	77	2.878	0.180	0.243
48"	5'-4"	5'-4"	5'-3"	26	6'-3"	6'-4"	6'-4"	0.743	0.743	0.407	111	3.623	0.235	0.317
54"	5'-10"	5'-10"	5'-9"	28	6'-7"	6'-10"	6'-10"	0.865	0.865	0.444	126	4.283	0.297	0.401
60"	6'-6"	6'-6"	6'-3"	30	7'-3"	7'-6"	7'-6"	1.042	1.042	0.481	145	5.090	0.367	0.495
66"	7'-1"	7'-1"	6'-9"	32	7'-10"	8'-1"	8'-1"	1.210	1.210	0.518	169	5.917	0.444	0.589

STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**CONCRETE JUNCTION BOX**  
(WITH OPTIONAL MANHOLE)  
12" THRU 66" PIPE

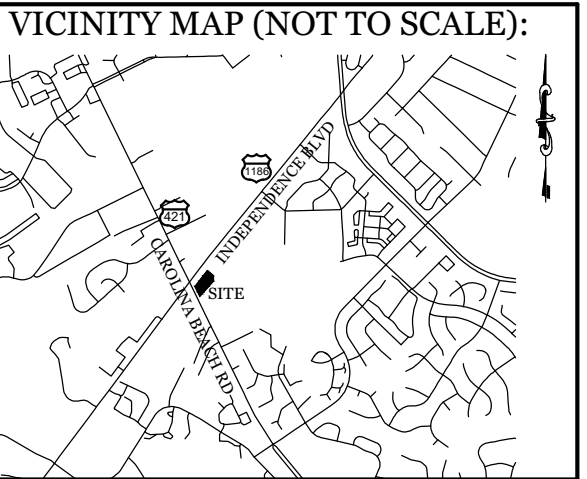
SHEET 1 OF 1  
**840.31**



STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

ROADWAY STANDARD DRAWING FOR  
**MANHOLE FRAME AND COVER**

SHEET 1 OF 1  
**840.54**



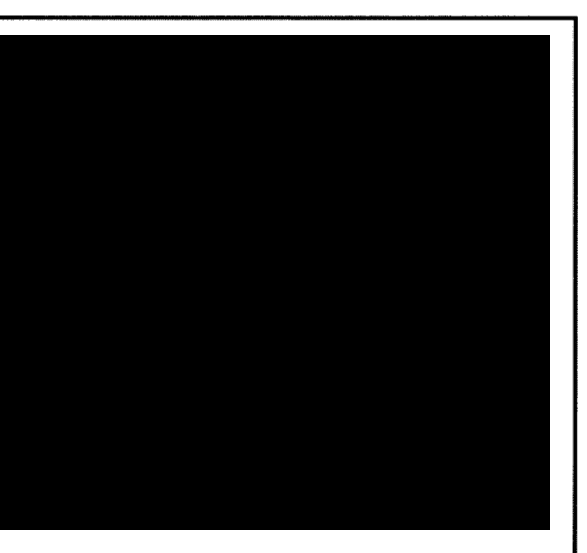
REVISIONS


**INTRACOASTAL ENGINEERING, PLLC**  
5725 Oleander Dr. Unit E-7  
Wilmington, North Carolina 28403  
Phone: 910.859.8983  
Email: [charlie@intracoastalengineering.com](mailto:charlie@intracoastalengineering.com)  
License Number P-0662

**DETAILS**

FOR  
**H2 TURBO WASH WEST**

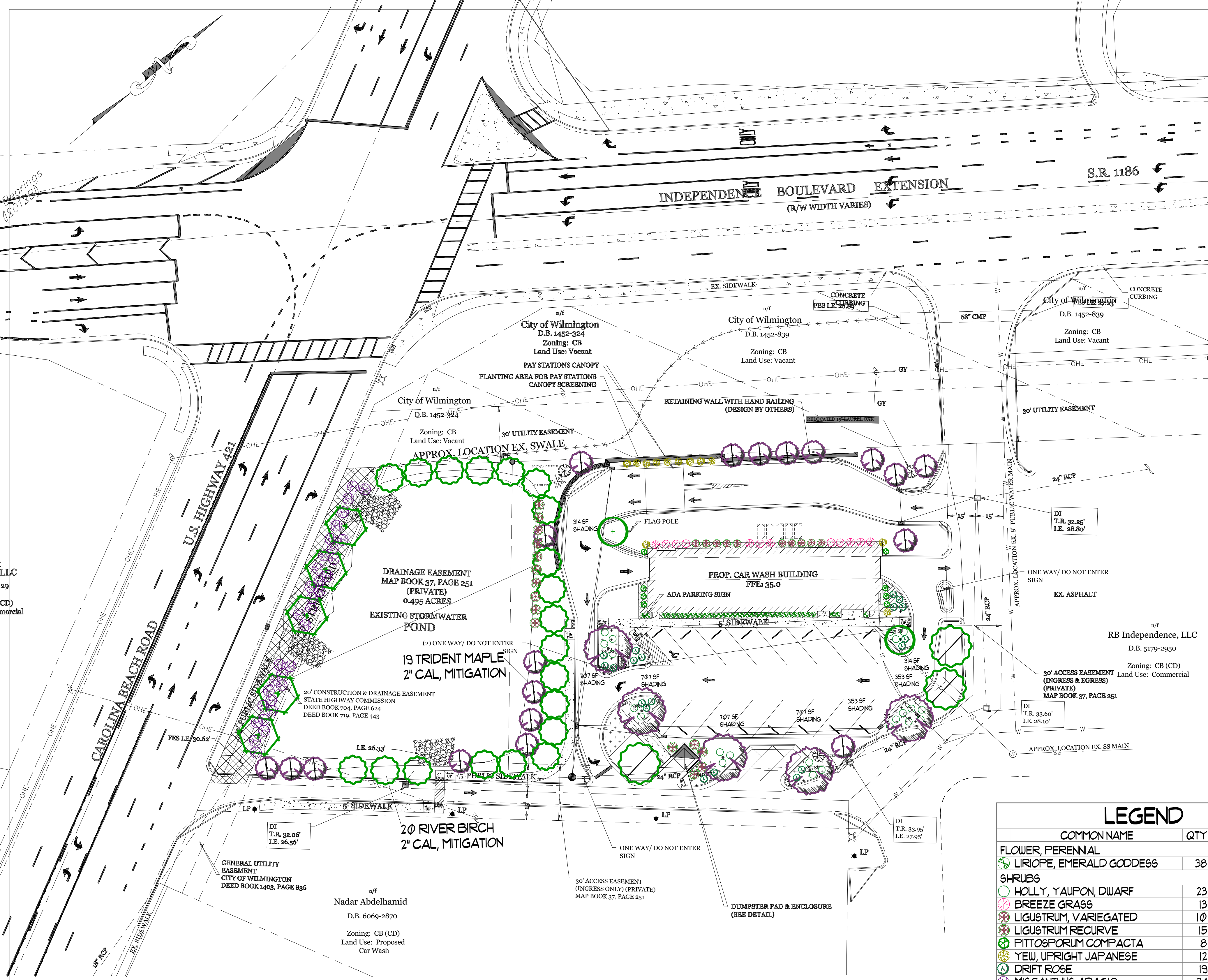
WILMINGTON, NORTH CAROLINA



CLIENT INFORMATION:  
Andy Lazzaro  
Three Guys Car Wash, Llc  
5520 Oleander Dr.  
Wilmington, NC 28403

DRAWN:	JAE	SHEET SIZE:	24 X 36
CHECKED:	CDC	DATE:	1/31/2022
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2021-035		





SITE DATA		
PARCEL ID:	Ro6515-003-022-000	
ZONING:	CB-(CD)	
CAMA LAND USE CLASSIFICATION:	URBAN	
PROJECT ADDRESS	3819 CAROLINA BEACH RD WILMINGTON, NC 28412	
CURRENT OWNERS:	THREE GUYS CAR WASH, LLC 5520 OLEANDER DR. WILMINGTON, NC 28403	
TOTAL ACREAGE IN PROJECT BOUNDARY	65,656 S.F. (1.51 AC.) X 15 = 23 Trees 2" Cal. Req'd & Prov'd	
PROPOSED USE:	AUTOMOBILE SERVICES (CAR WASH)	
PROPOSED CONSTRUCTION TYPE:	III-B (COMMERCIAL)	
BUILDING SIZE:	4,095 S.F. (ROOF)	
BUILDING HEIGHT:	±16'/1 STORY (25' MAX PER ZONING)	
BUILDING SETBACKS:		
FRONT:	REQUIRED= 20'	PROPOSED= 162'
SIDE:	REQUIRED= 0'	PROPOSED= 46'L/108'R
REAR:	REQUIRED= 10'	PROPOSED= 50'
CALCULATION FOR BUILDING COVERAGE:		
PROPOSED COVERAGE		4,095 S.F. ÷ 65,656 S.F. = 6.2%
PROPOSED ON-SITE IMPERVIOUS AREAS:		
BUILDING	4,095 S.F.	
PAY STATION CANOPY	560 S.F.	
CONCRETE PARKING AREA	19,645 S.F.	
CONCRETE SIDEWALK	3,345 S.F.	
CONCRETE RETAINING WALL	420 S.F.	
FUTURE	2,109 S.F.	
TOTAL:	30,174 S.F. (46.0%)	
TOTAL ON-SITE IMPERVIOUS AREA:		
EXISTING TO REMAIN:	3,871 S.F.	
PROPOSED:	30,174 S.F.	
TOTAL:	34,045 S.F. (51.9%)	
STREETYARD (MULTIPLIER: 18' MAX: 27' MIN: 9')		
REQUIRED: 184'-6"=178' X 18"=	3,204 S.F.	
PROVIDED:	3,500 S.F.	
FOUNDATION PLANTINGS:		
EAST FACE REQUIRED (130 LF):	250 SF (2,080 SF X 12%)	
PROVIDED:	300 SF	
WEST FACE REQUIRED (130 LF):	250 SF (2,080 SF X 12%)	
PROVIDED:	390 SF	
NORTH FACE REQUIRED (31.5 LF):	61 SF (504 SF X 12%)	
PROVIDED:	105 SF	
SOUTH FACE REQUIRED (31.5 LF):	61 SF (504 SF X 12%)	
PROVIDED:	75 SF	

19,645 S.F. Impervious x .20 = 3,929 sf Shading req'd.  
 2 x 314 = 628 sf shading  
 2 x 353 = 706 sf  
 4 x 707 = 2828 sf  
 4162 sf Total Shading Provided

STREETYARD: 3204 SF / 600 = 5 TREES 2" CAL. & 32 SHRUBS 12" HT. REQ'D. & PROV'D

LEGEND				
COMMON NAME	QTY	SIZE	HEIGHT	
<b>FLOWER, PERENNIAL</b>				
LIRIOPE, EMERALD GODDESS	38	1 GAL.	12"	
<b>SHRUBS</b>				
HOLLY, YAUFON, DWARF	23	3 GAL.	NOT REQ'D.	
BREEZE GRASS	13	3 GAL.	12"	
LIGUSTRUM, VARIEGATED	10	3 GAL.	12"	
LIGUSTRUM RECURVE	15	3 GAL.	24"	
PITOSPORUM COMPACTA	8	3 GAL.	12"	
YEW, UPRIGHT JAPANESE	12	7 GAL.	3'	
DRIFT ROSE	19	3 GAL.	NOT REQ'D.	
MISCANTHUS ADAGIO	34	3 GAL.	12"	
<b>TREES</b>				
TRIDENT MAPLE	5	2" CAL.		MITIGATION
BALD CYPRESS	5	2" CAL.		MITIGATION
EAGLESTON HOLLY, TREE FORM	2		8'	
RIVER BIRCH	20	2" CAL.		MITIGATION
RIVER BIRCH	3	2" CAL.		MITIGATION
TRIDENT MAPLE	19	2" CAL.		MITIGATION

THESE 3 VARIETIES OF LIGUSTRUM ARE NOT LISTED AS INVASIVE ON THE WEBSITE LISTED. LIGUSTRUM CHINESE IS THE ONE THAT IS INVASIVE. IT IS THE OLD PLANT CALLED PRIVET THAT WAS SPREAD BY BIRDS.

REQUIRED TREE MITIGATION CHART				
QTY	SIZE	TYPE	% MITIGATION	REPLACEMENT TREE QTY
1	29"	LIVE OAK	100%	19.33
1	30"	LOB PINE	100%	20.00
<b>TOTAL REPLACEMENT TREES REQ'D &amp; PROV'D</b>				<b>39</b>

\* SEE LANDSCAPE PLAN BY OTHERS FOR REQUIRED MITIGATION.

- LANDSCAPE NOTES:**
- PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  - THE AREAS WITHIN THE TRIANGULAR SIGHT DISTANCE SHALL BE MAINTAINED FREE OF ALL OBSTRUCTIONS BETWEEN 30" AND 10'.
  - A RAIN/FREEZE SENSOR SHALL BE USED IF THERE IS AN IRRIGATION SENSOR.
  - USING THE CREATIVE STANDARD OF THE CODE, 50% OF THE STREETYARD SHALL BE PLANTED AS CALLED OUT.
  - ALL PLANT BEDS ARE TO RECEIVE 3-4" OF PINESTRAW OR MULCH.
  - LANDSCAPING SHALL BE COMPLETE BEFORE ISSUANCE OF A CO.

Approved Construction Plan		
Name	Date	
Planning		
Traffic		
Fire		

**CITY OF WILMINGTON**  
NORTH CAROLINA

Public Services • Engineering Division

APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

Revision #: 3

Date: 6/15/2022

Scale:

1" = 30'

Landscape Plan:

H2 Turbo Carwash

Landscape Design by: James Freeman - NCLC# 1955

Freeman Landscape