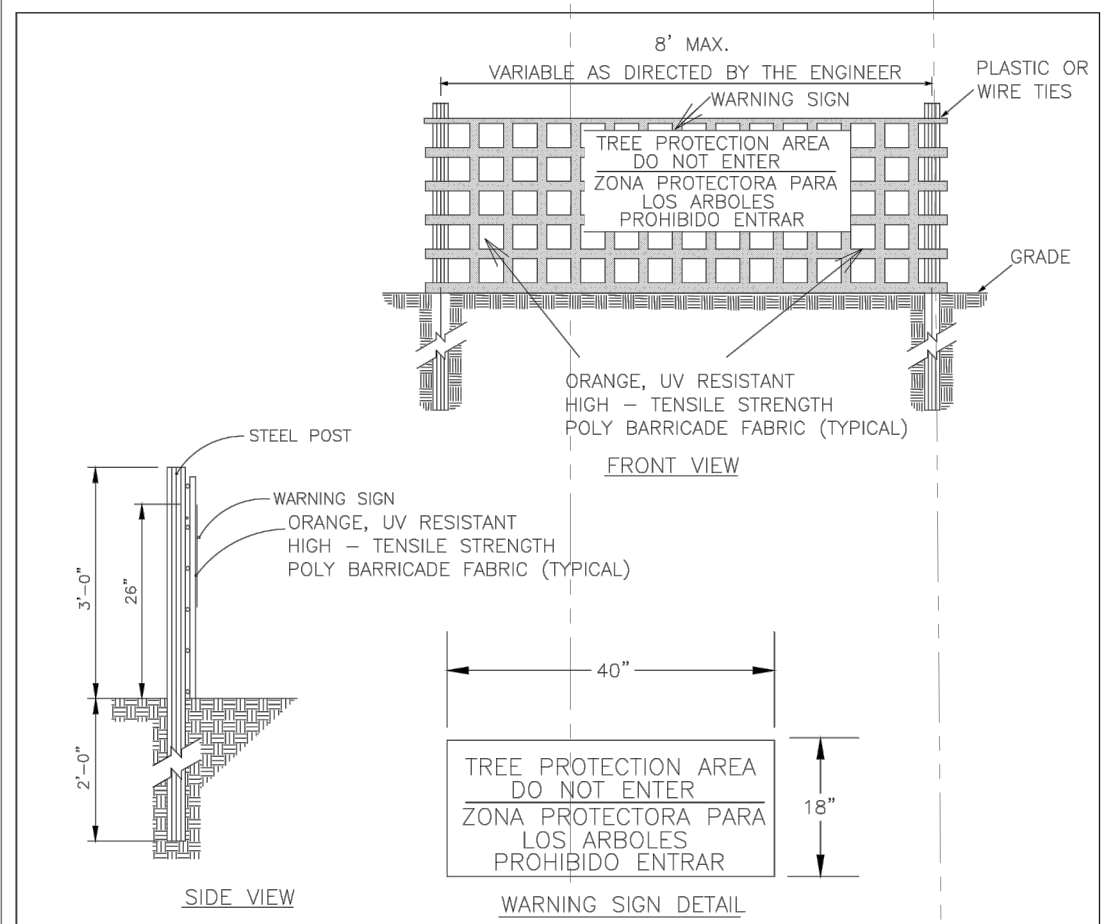
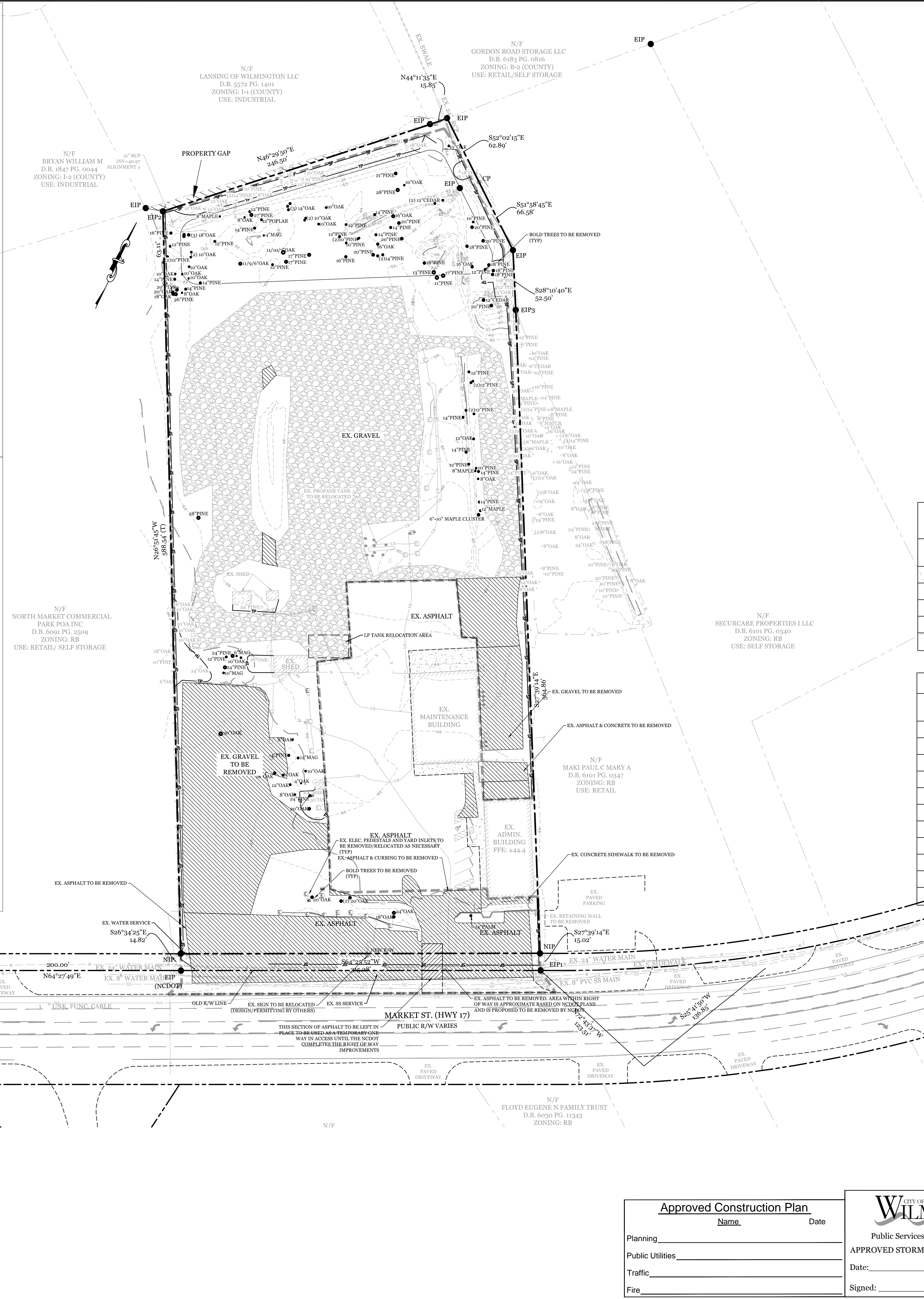


STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 1 of 2
 SD 15-09



STANDARD DETAIL
TREE PROTECTION DURING CONSTRUCTION
 SHEET 2 of 2
 SD 15-09



SITE DATA

PARCEL ID:	R04300-004-002-000
CURRENT ZONING:	RB (REGIONAL BUSINESS)
CAMA LAND USE CLASSIFICATION:	URBAN
PROJECT ADDRESS:	6811 MARKET ST WILMINGTON, NC 28411
CURRENT OWNER:	HOWARD PROPERTIES OF WILMINGTON LLC 6811 MARKET ST WILMINGTON, NC 28405
TOTAL ACREAGE IN PROJECT BOUNDARY:	223,735.5 S.F. (± 5.14 ac.)
TOTAL DISTURBED AREA:	±3.1 ACRES
EXISTING BUILDING SIZES:	ADMIN: 3,515 GFA (±12' HEIGHT) MAINT: 4,854 GFA (±17' HEIGHT)
EXISTING ONSITE IMPERVIOUS AREAS:	BUILDINGS: 8,369 S.F. SHEDS: 763 S.F. GRAVEL: 78,447 S.F. CONCRETE: 3,907 S.F. ASPHALT: 44,211 S.F. TOTAL: 135,697 S.F. (60.7%)
EXISTING ONSITE IMPERVIOUS AREAS TO BE REMOVED:	ASPHALT: 16,310 S.F. CONCRETE: 1,142 S.F. GRAVEL: 23,918 S.F. TOTAL: 41,370 S.F.
SOIL TYPES:	LE (LEON SAND) & MU (MURVILLE FINE SAND) <i>(Per the USDA websoil survey map)</i>

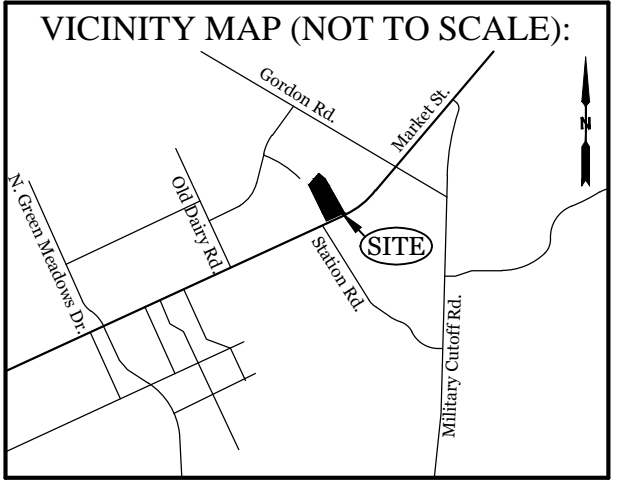
- NOTES:**
- EXISTING SURVEY DATA PROVIDED BY ESP ASSOCIATES, INC. SURVEY DATED 7/17/18.
 - THIS LOT IS LOCATED IN ZONE X AS PER FIRM COMMUNITY # 370171, MAP# 3720315800K, DATED: AUGUST 28, 2018.
 - PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND 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.
 - UPDATED TREE SURVEY PROVIDED BY C.I. GLOVER CO. DATED 11/6/19.
 - NO WETLANDS EXIST ON SITE PER A.R.M. REPORT DATED 11/1/19.
 - NO PINE TREES PROPOSED FOR REMOVAL 24" DBH OR LARGER ARE SPECIES WHICH WOULD DESIGNATE THEM SIGNIFICANT.

MITIGATION REQUIRED FOR REMOVAL OF SIGNIFICANT TREES

QTY	SIZE	TYPE	% MITIGATION	REPLACEMENT TREE QTY
1	24"	OAK	100%	16.00
1	30"	OAK	100%	20.00
1	10"	MAG	100%	6.67
1	12"	MAG	100%	8.00
TOTAL REPLACEMENT TREES				51

CREDITS FOR PRESERVED TREES

QTY	SIZE	TYPE	DBH	TOTAL DBH
20	3"	OAK	3	60
17	4"	OAK	4	68
8	5"	OAK	5	40
2	6"	OAK	6	12
5	7"	OAK	7	35
5	4"	PINE	4	20
1	5"	PINE	5	5
2	6"	PINE	6	12
1	8"	PINE	8	8
5	10"	PINE	10	50
TOTAL CREDITS FOR PRESERVED TREES				52



REVISIONS

NO.	DATE	DESCRIPTION
6-30-20		REVISED BOUNDARY LINES

INTRACOASTAL ENGINEERING, PLLC
 5725 Olander Dr. Unit E-7
 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number: P-0662

EXISTING CONDITIONS, DEMOLITION, TREE REMOVAL & PROTECTION PLAN FOR HOWARD RV CENTER
 CITY OF WILMINGTON
 NEW HANOVER COUNTY, NC

Professional Seal
 NORTH CAROLINA PROFESSIONAL SEAL
 032555
 ENGINEER
 CHARLES D. CALZIER
 2/6/2020

CLIENT INFORMATION:
 Howard Properties of Wilmington LLC
 6811 Market Mt
 Wilmington, NC 28405

DRAWN: JAE SHEET SIZE: 24x36
 CHECKED: CDC DATE: 2/6/2020
 APPROVED: CDC SCALE: 1" = 50'
 PROJECT NUMBER: 2018-030

DRAWING NUMBER: **C-0**
 1 OF 5

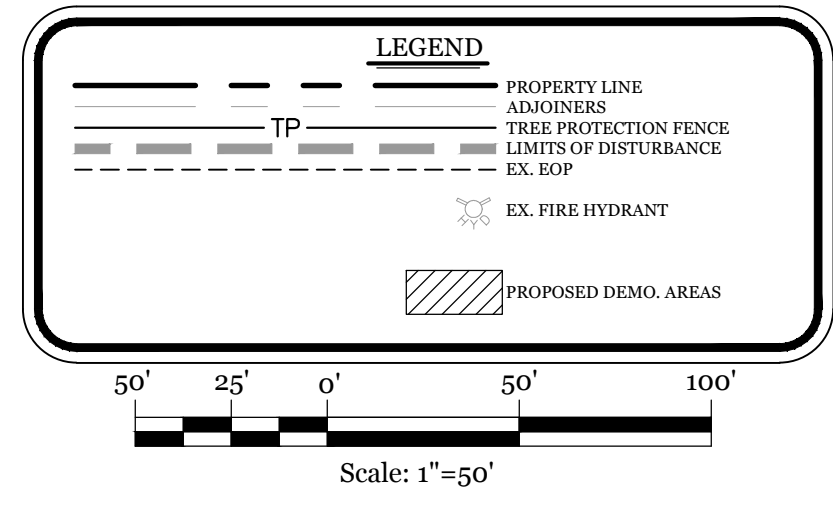
Approved Construction Plan

Name _____ Date _____

Planning _____
 Public Utilities _____
 Traffic _____
 Fire _____

CITY OF WILMINGTON
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit # _____
 Signed: _____



LANDING OF WILMINGTON LLC
D.B. 5572 PG. 1401
ZONING: I-1 (COUNTY)
USE: INDUSTRIAL

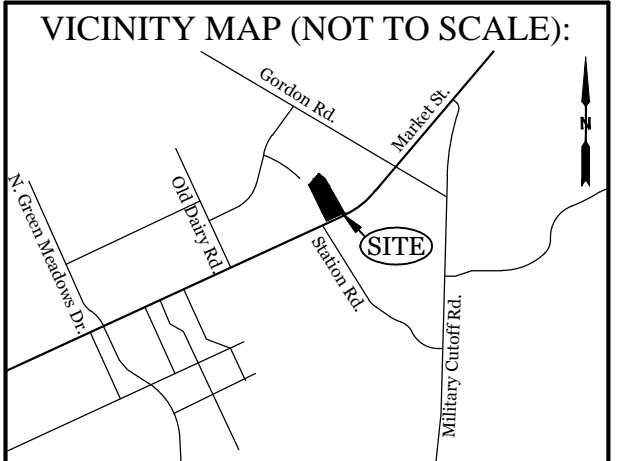
N/F
BRYAN WILLIAM M
D.B. 1847 PG. 0044
ZONING: I-2 (COUNTY)
USE: INDUSTRIAL

N/F
NORTH MARKET COMMERCIAL
PARK POA INC
D.B. 6091 PG. 2509
ZONING: RB
USE: RETAIL/SELF STORAGE

- GENERAL TRAFFIC NOTES:**
1. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS OFF THE R/W TO BE MAINTAINED BY THE PROPERTY OWNER IN ACCORDANCE WITH MUTCD STANDARDS.
 2. 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 COW TECH STDS)
 3. 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 COW TECH STDS)
 4. A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. NOTE THIS ON THE PLAN AND CONTACT 341-5888 FOR MORE DETAILS. IN CERTAIN CASES AN ENTIRE RESURFACING OF THE AREA BEING OPEN CUT MAY BE REQUIRED.
 5. ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.
 6. CONTACT TRAFFIC ENGINEERING AT 341-7888 FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT OF WAY.
 7. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30' TO 10'.
- FIRE & SAFETY NOTES:**
1. CONSTRUCTION TYPE: III-B (COMMERCIAL)
 2. BUILDINGS WILL NOT BE SPRINKLED
 3. PARKING AND LANDSCAPING CANNOT BLOCK FIRE HYDRANTS.
 4. ALL WEATHER ACCESS ROAD MUST BE MAINTAINED AROUND CONSTRUCTION SITE AT ALL TIMES.
 5. HYDRANTS SHALL BE OF SUFFICIENT NUMBERS TO ACCOMMODATE BASE FIRE FLOW REQUIREMENTS OF STRUCTURE.
 6. ALL PROPOSED DRIVEWAY GATES TO BE SIREN ACTIVATED.
 7. IN ADDITION TO THE STANDARD COMMENTS, ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.

SITE DATA

PARCEL ID:	R04300-004-002-000		
CURRENT ZONING:	RB (REGIONAL BUSINESS)		
CAMA LAND USE CLASSIFICATION:	URBAN		
PROJECT ADDRESS:	6811 MARKET ST WILMINGTON, NC 28411		
CURRENT OWNER:	HOWARD PROPERTIES OF WILMINGTON LLC 6811 MARKET ST WILMINGTON, NC 28405		
TOTAL ACREAGE IN PROJECT BOUNDARY:	223,735.5 S.F. (± 5.14 AC)		
NUMBER OF BUILDINGS:	2		
BUILDING SIZE:	PROP. ADMIN: 2,450 GFA (±12' HEIGHT) EX. ADMIN: 3,515 GFA (±12' HEIGHT) EX. MAINT: 4,854 GFA (±17' HEIGHT) TOTAL: 10,819 S.F. GFA (29% INCREASE IN GFA)		
BUILDING SETBACKS:	FRONT: REQUIRED= 25' EXISTING= 63' PROPOSED= 63' SIDE: REQUIRED= 0' (L/R) EXISTING= 212'/3' PROPOSED= 212'/3' REAR: REQUIRED= 15' EXISTING= 369' PROPOSED= 369'		
CALCULATION FOR BUILDING COVERAGE:	PROPOSED COVERAGE: 11,519 S.F. ÷ 223,735.5 S.F. = 5.1%		
PROPOSED IMPERVIOUS AREAS:	BUILDING ADDITION & COVERED AREA: 3,450 S.F. ASPHALT PARKING/DISPLAY AREA: 33,586 S.F. CONCRETE (SIDEWALK, C&G, ETC.): 3,728 S.F. GRAVEL PARKING/DISPLAY AREA: 24,490 S.F. TOTAL: 64,954 S.F. (29.0%)		
TOTAL ON-SITE IMPERVIOUS AREA:	PROPOSED IMPERVIOUS AREA: 64,954 S.F. EXISTING IMP. AREA TO REMAIN: 94,327 S.F. TOTAL: 159,281 S.F. (71.2%)		
PROPOSED OFFSITE IMPERVIOUS AREAS:	CONCRETE SIDEWALK: 1,578 S.F. ASPHALT DRIVEWAY APRON: 1,140 S.F. TOTAL: 2,718 S.F.		
PARKING REQUIRED:	5,965 S.F. RV DEALERSHIP: MIN: 1 SPACE/500 S.F. = 12 SPACES		
4,854 MAINTENANCE BUILDING (WAREHOUSE):	MIN: 1 SPACE/1000 S.F. = 5 SPACES		
TOTAL MIN. REQUIRED:	17 SPACES (1 H.C.)		
MAX:	N/A		
PARKING PROVIDED:	17 SPACES (1 H.C.)		
FOUNDATION PLANTINGS:	ADMIN BLD. ADDITION WEST FACADE: 34 LF X 10' FACADE X 12% REQUIRED: 41 S.F. PROVIDED: 63 S.F.		
STREET/YARD REQUIREMENT:	12.5' (6.25' MIN & 18.75' MAX WIDTH)** REQUIRED: 285.76 LF X 12.5' = 3,572 S.F. PROVIDED: 3,577 S.F.		
PER COW MUNICODE SEC. 18-510 TABLE III "A" THE REQUIRED WIDTH FOR NEW CONSTRUCTION.			
EXISTING/PROPOSED SEWER AND WATER DEMAND:	500 GPD		



REVISIONS

6-30-20	REVISED BOUNDARY LINES.
12-10-21	REVISED GRAVEL AND ASPHALT AREAS, DUMPSTER PAD, PROPANE TANK AND PARKING AREAS.

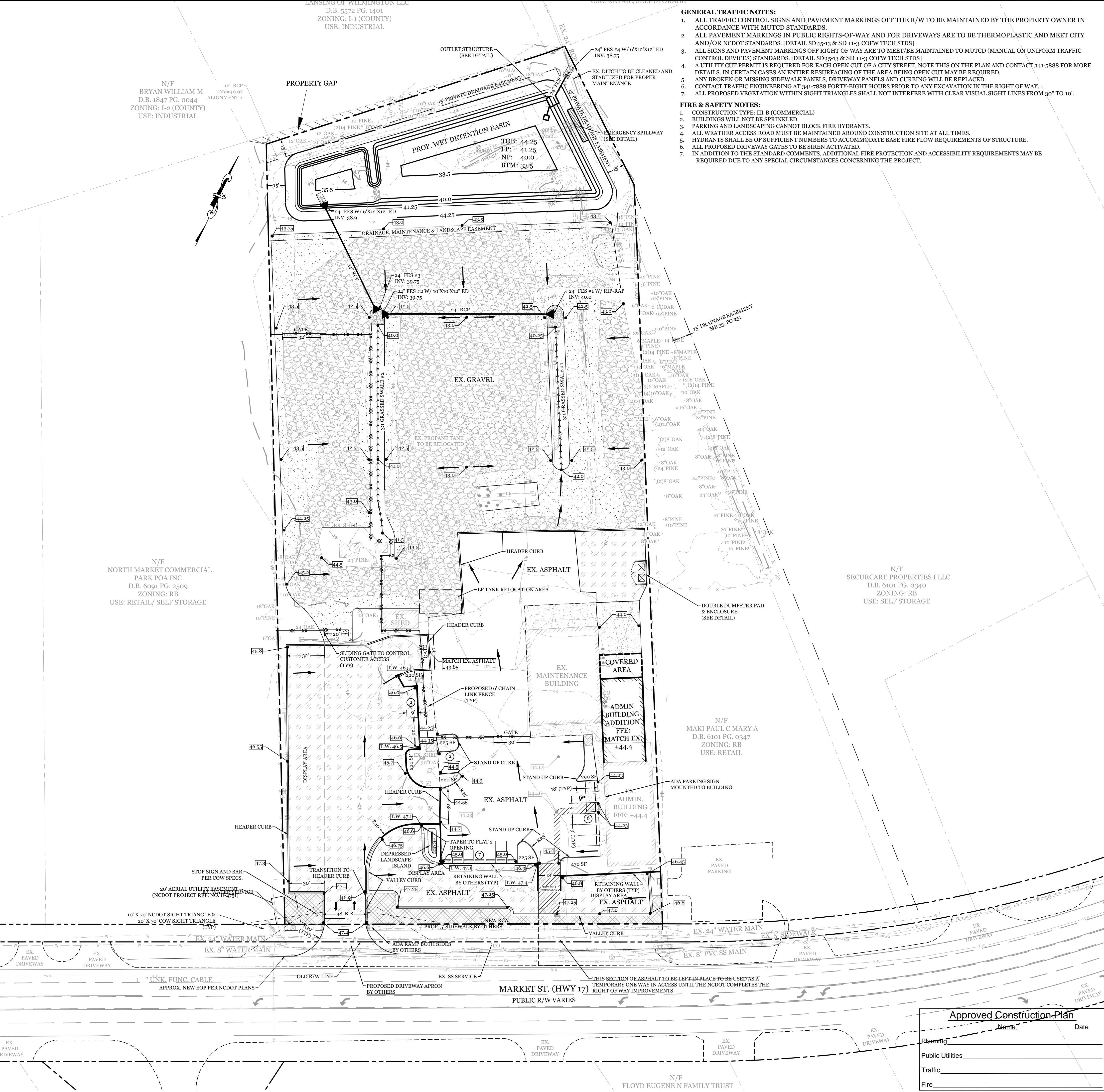
INTRACOASTAL ENGINEERING, PLLC
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662

SITE, GRADING, DRAINAGE, STORMWATER, & UTILITIES PLAN FOR HOWARD RV CENTER
CITY OF WILMINGTON
NEW HANOVER COUNTY, NC

CLIENT INFORMATION:
Howard Properties of Wilmington LLC
6811 Market Mt
Wilmington, NC 28405

DRAWN:	JAE	SHEET SIZE:	24x36
CHECKED:	CDC	DATE:	2/6/2020
APPROVED:	CDC	SCALE:	1" = 40'
PROJECT NUMBER:	2018-030		

DRAWING NUMBER: **C-1** 20F5



Approved Construction Plan

Name: _____ Date: _____

Planning _____

Public Utilities _____

Traffic _____

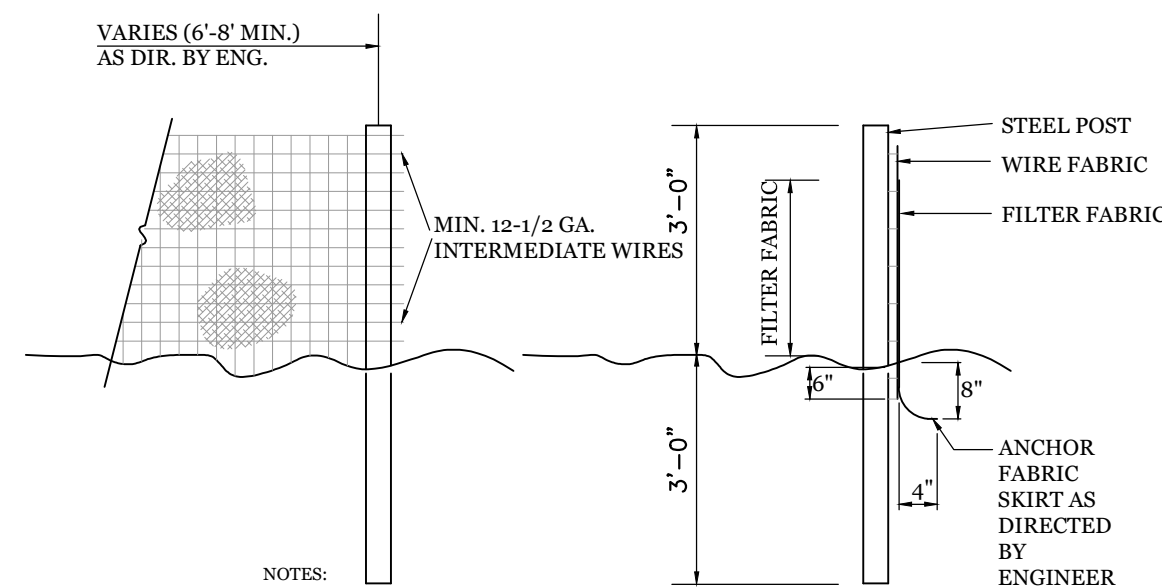
Fire _____

CITY OF WILMINGTON
NORTH CAROLINA
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN
Date: _____ Permit # _____
Signed: _____

LEGEND

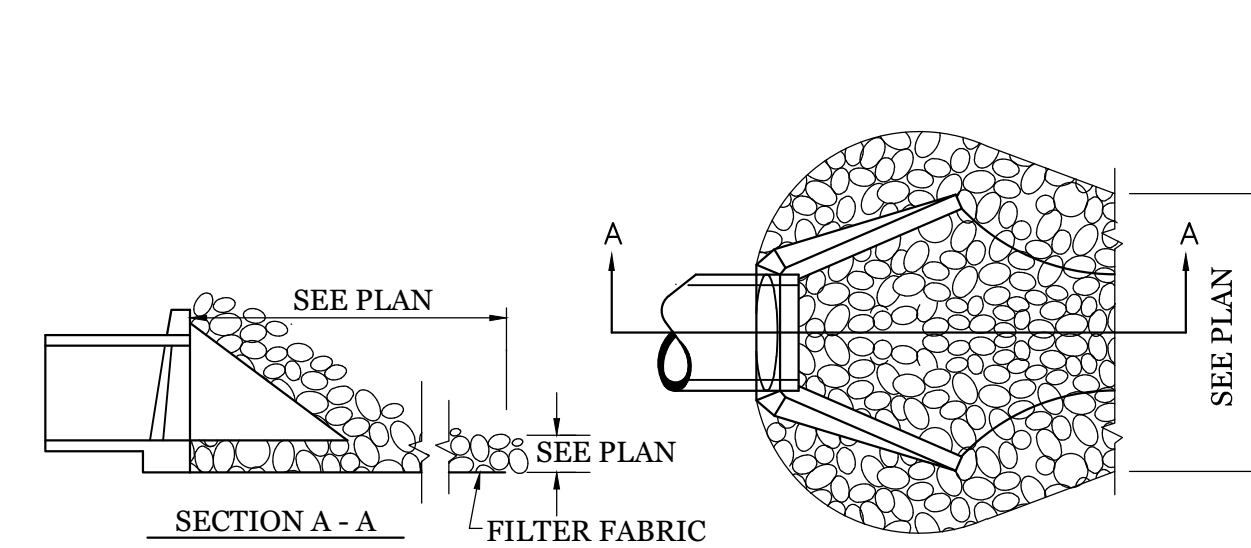
- PROPERTY LINE
- ADVERSE
- RUNOFF DIRECTION
- EX. TOP
- PROP. WATER LINE
- PROP. SS LINE
- EXISTING FIRE HYDRANT
- PROPOSED GRAVEL
- PROPOSED ASPHALT
- STREET/YARD
- FOUNDATION PLANTINGS

Scale: 1" = 40'



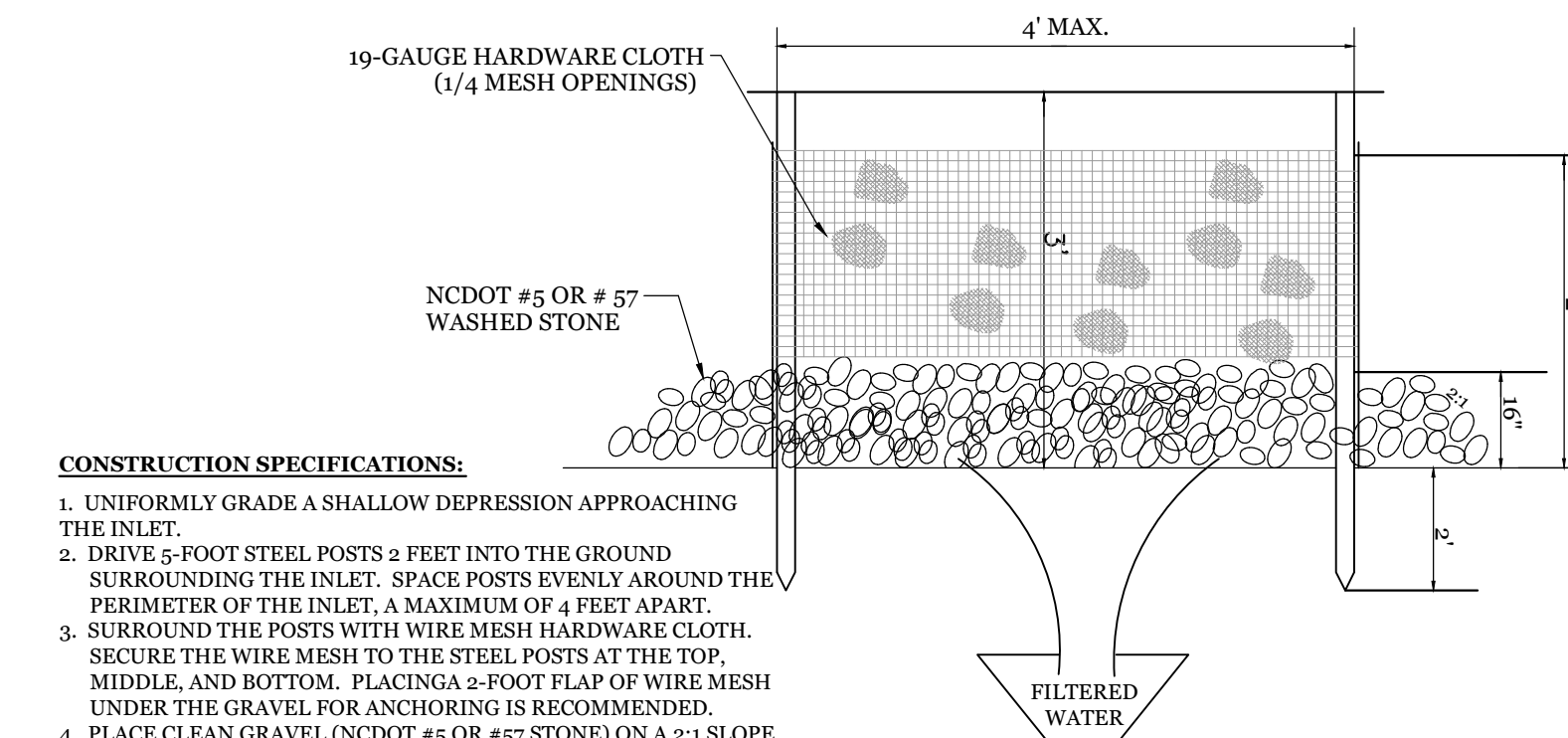
- NOTES:**
- FENCE FABRIC SHALL BE A MIN. OF 32" IN WIDTH AND SHALL HAVE A MIN. OF SIX LINE WIRES WITH 12" STAY SPACING.
 - FABRIC SHALL BE FOR EROSION CONTROL AND MIN. OF 36" IN WIDTH. FABRIC SHALL BE FASTENED ADEQUATELY TO THE WIRE FABRIC AS DIRECTED BY THE ENGINEER.
 - STEEL POST SHALL BE 5'-0" IN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

TEMPORARY SILT FENCE
NTS



- NOTES:**
- CLASS "B" RIP RAP TO BE USED FOR ALL ENERGY DISSIPATOR AREAS.

ENERGY DISSIPATOR
NTS



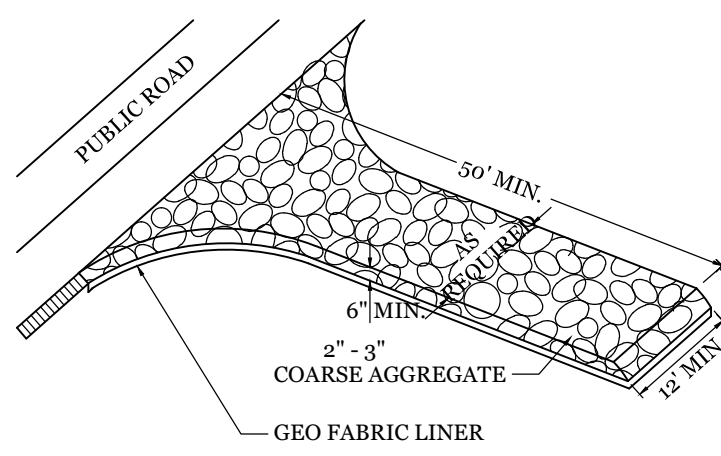
CONSTRUCTION SPECIFICATIONS:

- UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
- DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET, A MAXIMUM OF 4 FEET APART.
- SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACING A 5-FOOT FLAP OF WIRE MESH UNDER THE GRAVEL FOR ANCHORING IS RECOMMENDED.
- PLACE CLEAN GRAVEL (NCDOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE, AND SMOOTH TO AN EVEN GRADE.
- ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT, AND ESTABLISH FINAL GRADING ELEVATIONS.
- COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUND COVER.

MAINTENANCE:

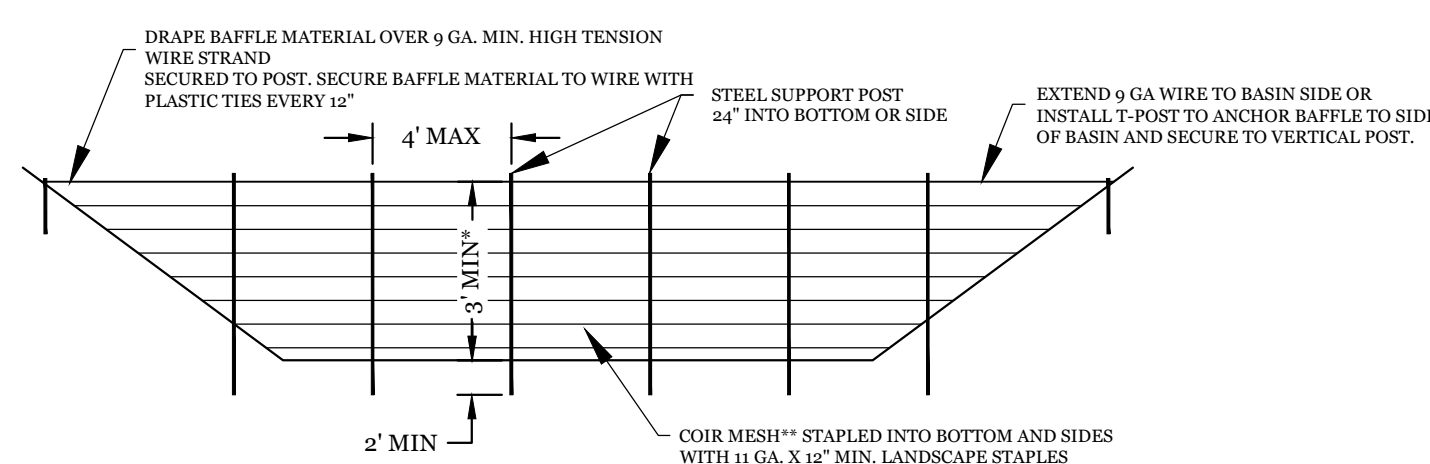
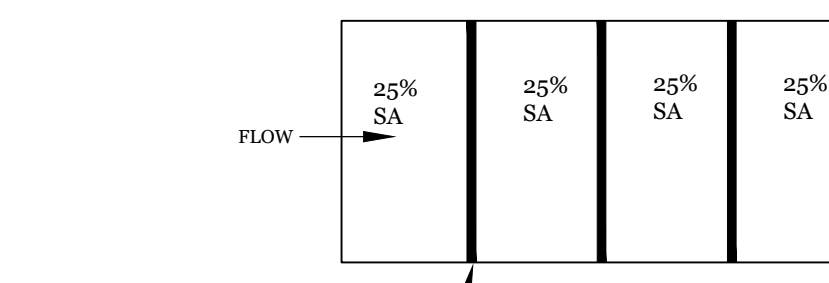
INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION
NTS



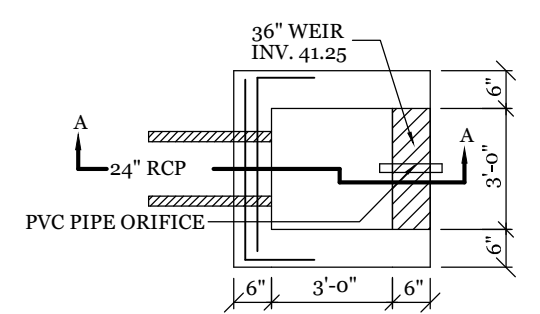
- NOTE:**
- CONSTRUCTION ENTRANCE TO BE 12" OR ENTIRE WIDTH OF ENTRANCE, WHICHEVER IS GREATER.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
NTS

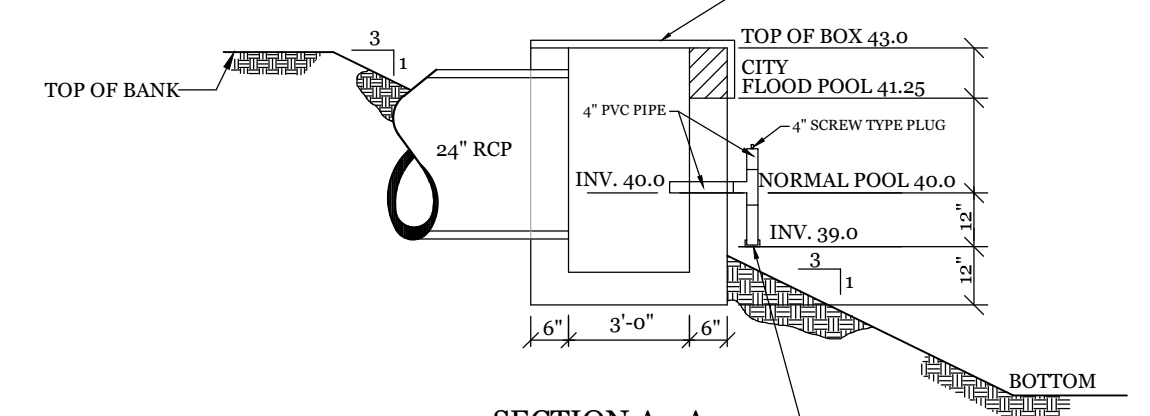


- IF TEMPORARY SEDIMENT BASIN WILL BE CONVERTED TO A PERMANENT STORMWATER BASIN OF GREATER DEPTH, THE BAFFLE HEIGHT SHOULD BE BASED ON THE POOL DEPTH BY USING USE AS A TEMP. SEDIMENT BASIN.**
- ** CORR FIBER BAFFLE MATERIAL TO MEET THE FOLLOWING SPECIFICATIONS:**
- THICKNESS: 0.30" MIN. TENSILE STRENGTH (WET): 500 X 550 LB/FT MIN. ELONGATION (WET): 60% X 34% MAX. FLOW VELOCITY: 10-12 FT/SEC. WEIGHT: 300Z/SY MIN. MINIMUM WIDTH: 6.5' OPEN AREA: 50% MAX.

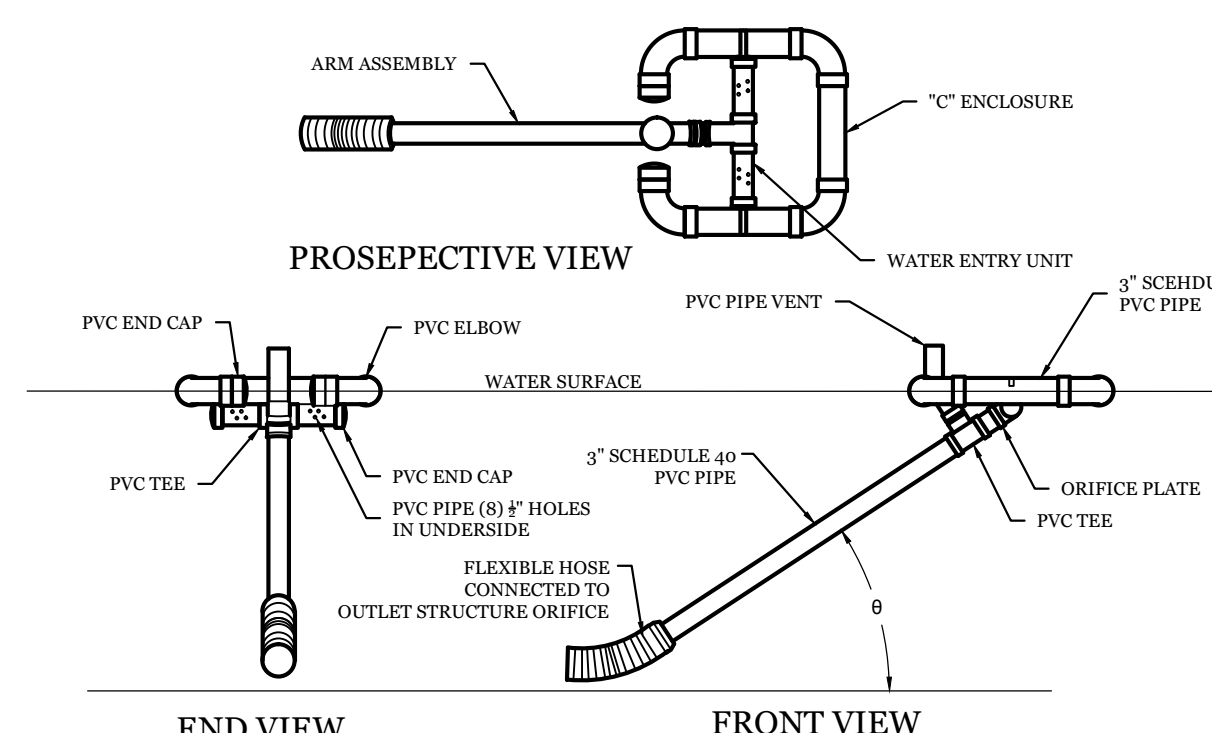
POROUS BAFFLE DETAIL
NTS



- PLAN**
- GALV. BAR GRATING - 1" x 1/8" BEARING BARS (MAX OPENING 4"). FASTEN WITH TYPE J CLIPS. ATTACH TO 1-1/4" x 1-1/4" x 1/4" GALVANIZED ANGLE FRAME. MORTAR FRAME TO TOP OF OUTLET STRUCTURE & FACE OF WEIR.

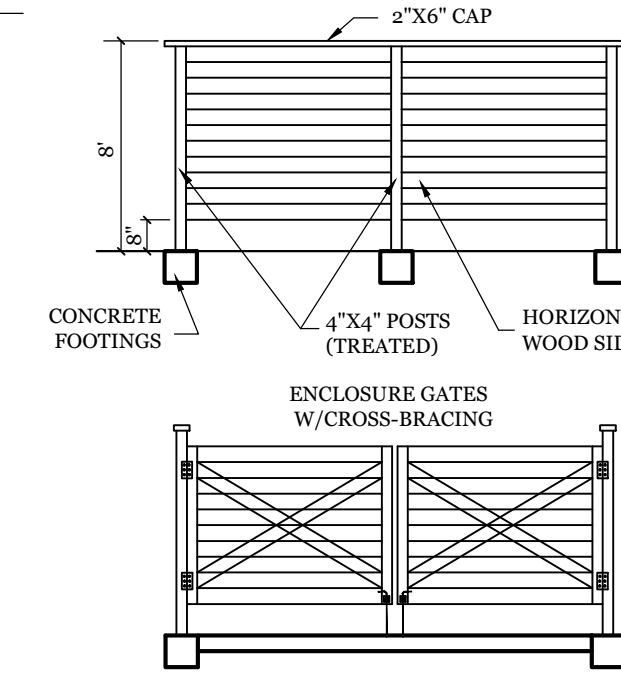
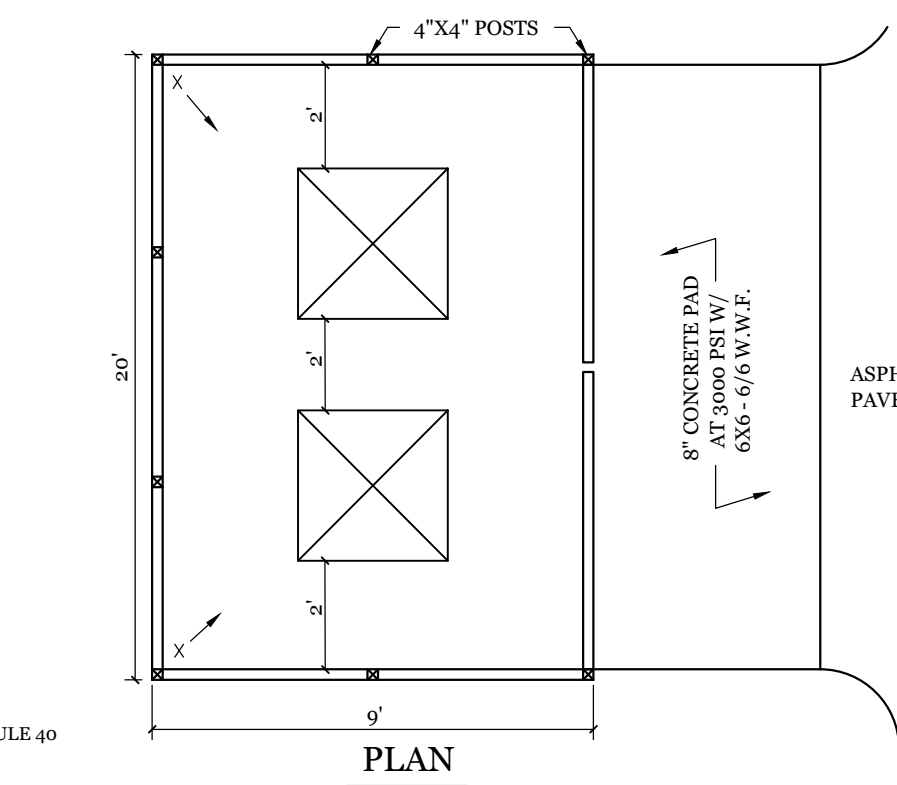


DETENTION POND OUTLET STRUCTURE
NTS

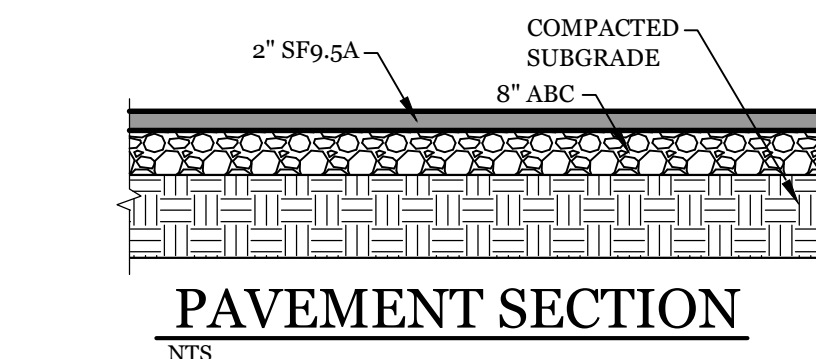


- NOTES:**
- SKIMMER TO BE USED IN WET PONDS AND REMOVED AFTER SITE IS PERMANENTLY STABLE.

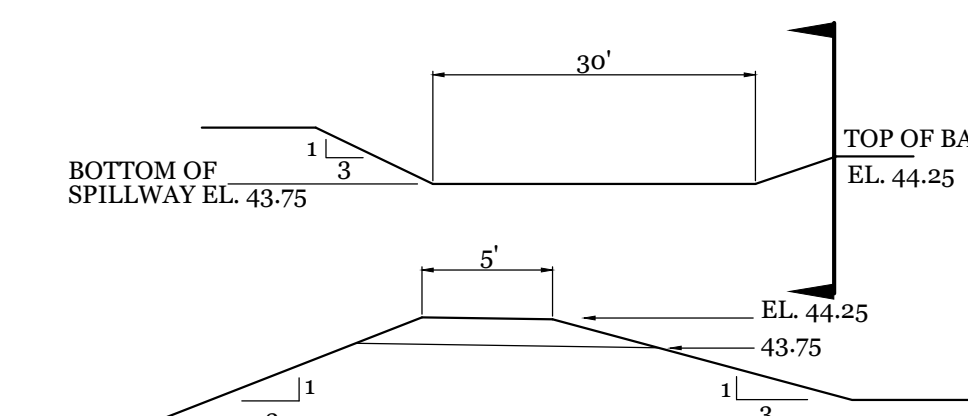
FAIRCLOTH SKIMMER DETAIL
NTS



DUMPSTER PAD & ENCLOSURE DETAIL
NTS

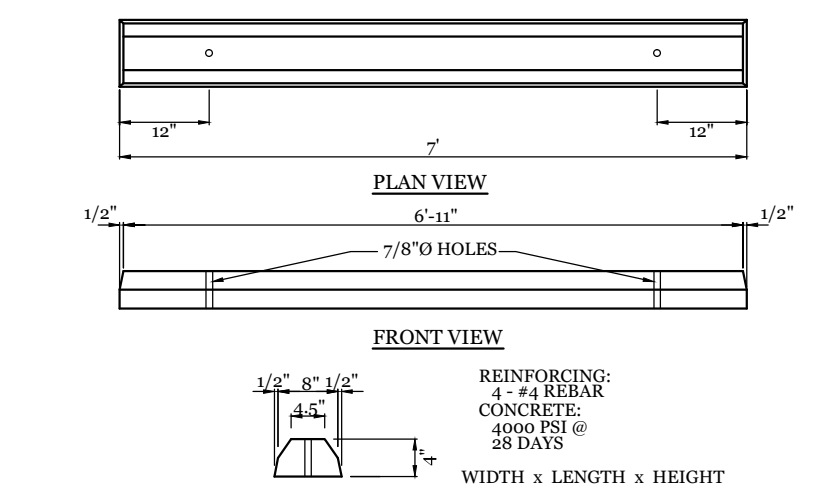


PAVEMENT SECTION
NTS



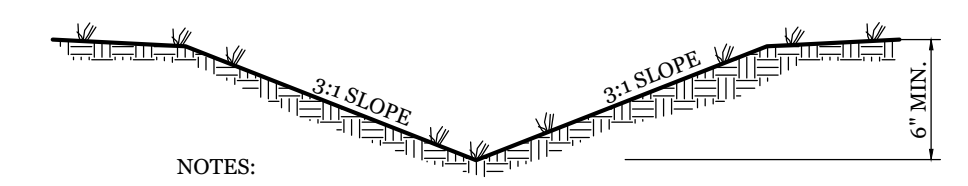
- NOTES:**
- WIDTH OF SPILLWAY TO BE PROTECTED WITH RIPRAP FOR THE FIRST 20'. REMAINING LENGTH OF CHANNEL TO BE STABILIZED WITH EXCELSIOR MAT AND SEEDED IN ACCORDANCE WITH SPECIFICATIONS.

EMERGENCY SPILLWAY DETAIL
NTS



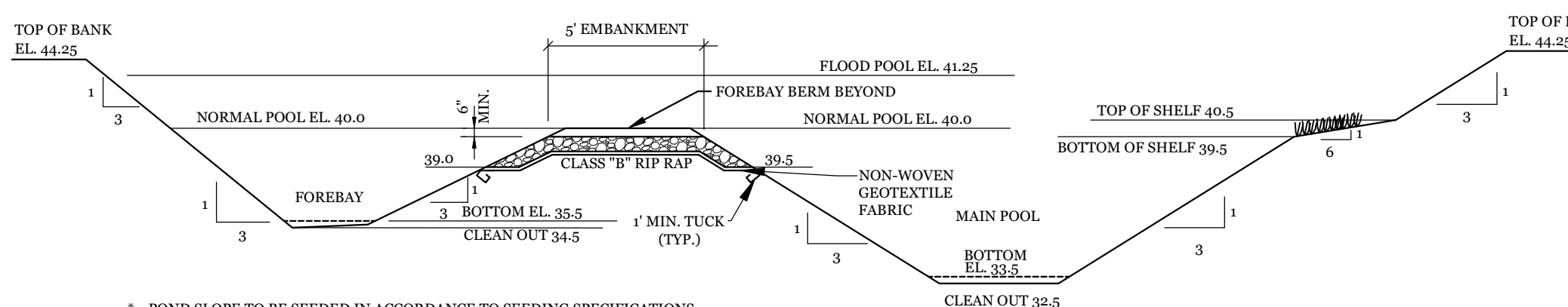
- NOTE:**
- CONTRACTOR SHALL INSTALL PER CITY OF WILMINGTON TECHNICAL STANDARD PIER STD 15-13
 - CONTRACTOR SHALL INSTALL WHEEL STOP 2' FROM SIDEWALK.

WHEEL STOP DETAIL
NTS



- NOTES:**
- ALL SWALES TO BE LINED WITH EXCELSIOR MAT AND SEEDED IN ACCORDANCE WITH SPECIFICATIONS.

TYPICAL GRASS SWALE
NTS

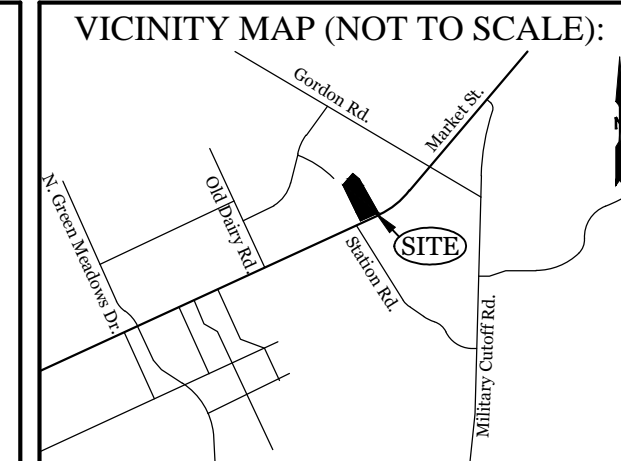


- POND SLOPE TO BE SEEDED IN ACCORDANCE TO SEEDING SPECIFICATIONS
- 6:1 VEGETATED SHELVE TO BE PLANTED WITH WETLAND SPECIES I.E. PICKEREL WEED, DUCK POTATO, SWAMP ROSE, BLUE FLAG, & CARDINAL FLOWER, (OR ENGINEER APPROVED ALTERNATIVE)
- VEGETATED SHELVE SHALL BE PLANTED WITH PLUGS OR POTS AT 24" O.C. IN A CHECKERBOARD PATTERN.
- VEGETATED SHELVE PLANTING SHALL NOT BE PLANTED WITHIN 10' OF THE OUTLET STRUCTURES.
- A PUMP WILL BE PROVIDED TO DRAIN THE BASIN FOR MAINTENANCE AND EMERGENCIES
- ANY PORTION OF WET DETENTION BASIN USED FOR S&C DURING CONSTRUCTION MUST BE CLEANED OUT AND RETURNED TO DESIGN STATE BEFORE USE AS A WET DETENTION BASIN.

DETENTION POND & FOREBAY SECTION
NTS

SITE WORK NOTES:

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



REVISIONS

NO.	DATE	DESCRIPTION
11/19-21		ADDED DOUBLE DUMPSTER DETAIL

INTRACOASTAL ENGINEERING, PLLC
5725 Oleander Dr. Unit E-7
Wilmington, North Carolina 28403
Phone: 910.859.8983
Email: Charlie@intracoastalengineering.com
License Number: P-0662

DETAILS FOR HOWARD RV CENTER
CITY OF WILMINGTON
NEW HANOVER COUNTY, NC

Professional Engineer Seal
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL
032555
CHARLES D. CALZIER
2/6/2020

CLIENT INFORMATION:
Howard Properties of Wilmington LLC
6811 Market Mt
Wilmington, NC 28405

DRAWN: JAE	SHEET SIZE: 24x36
CHECKED: CDC	DATE: 2/6/2020
APPROVED: CDC	SCALE: NTS
PROJECT NUMBER: 2018-030	

DRAWING NUMBER: **C-3** 4 OF 5

Approved Construction Plan

Name: _____ Date: _____

Planning _____

Public Utilities _____

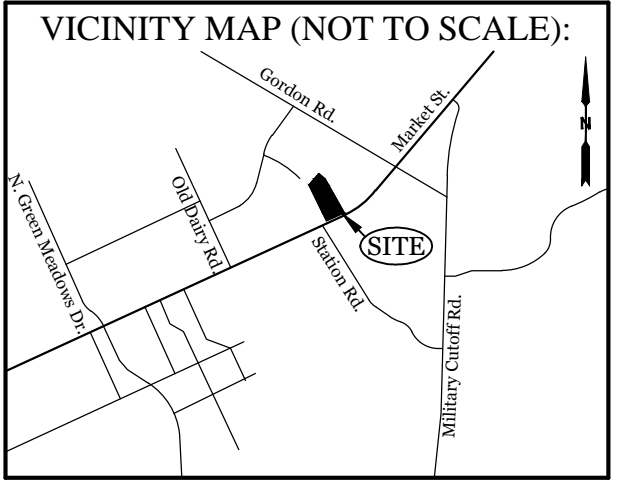
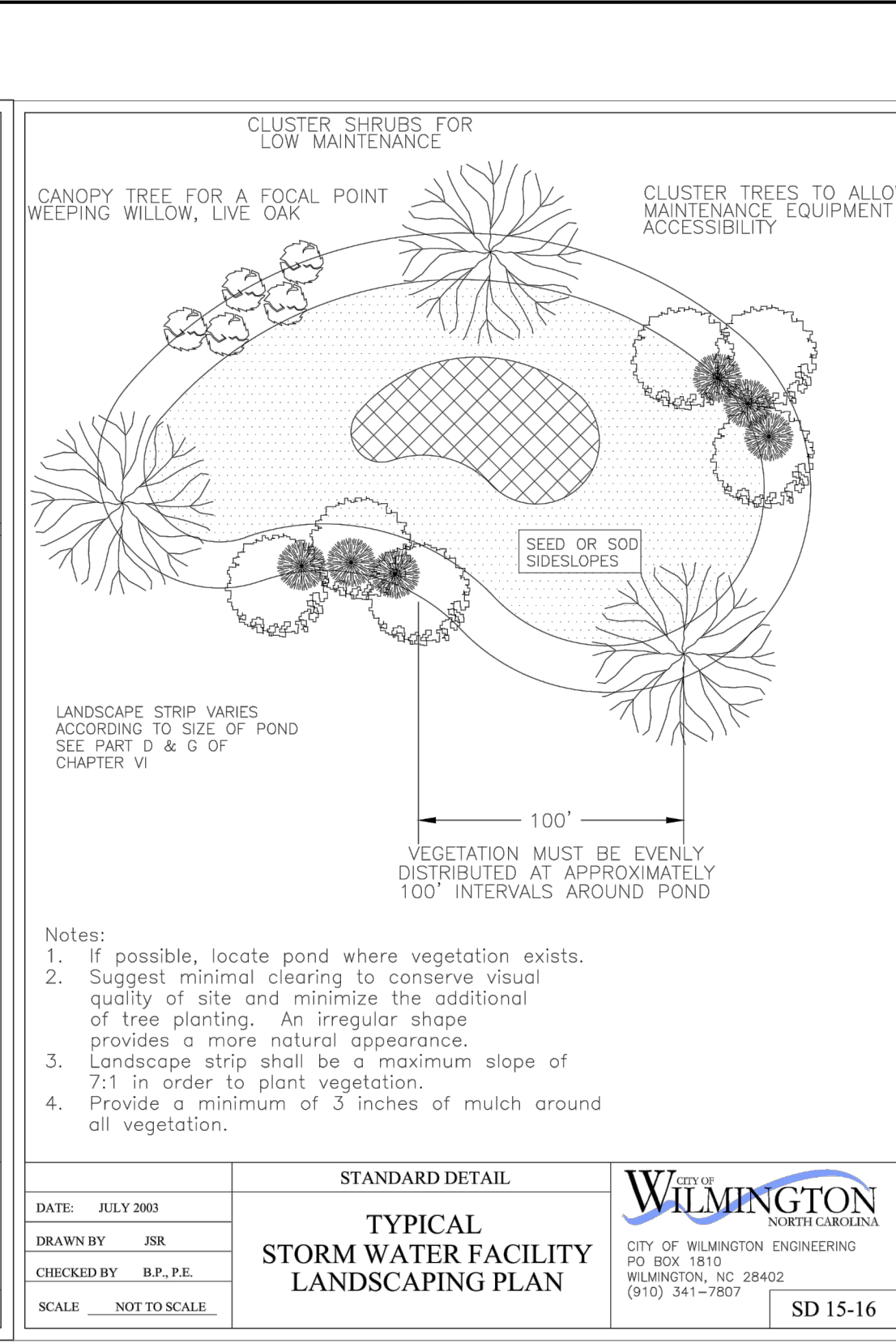
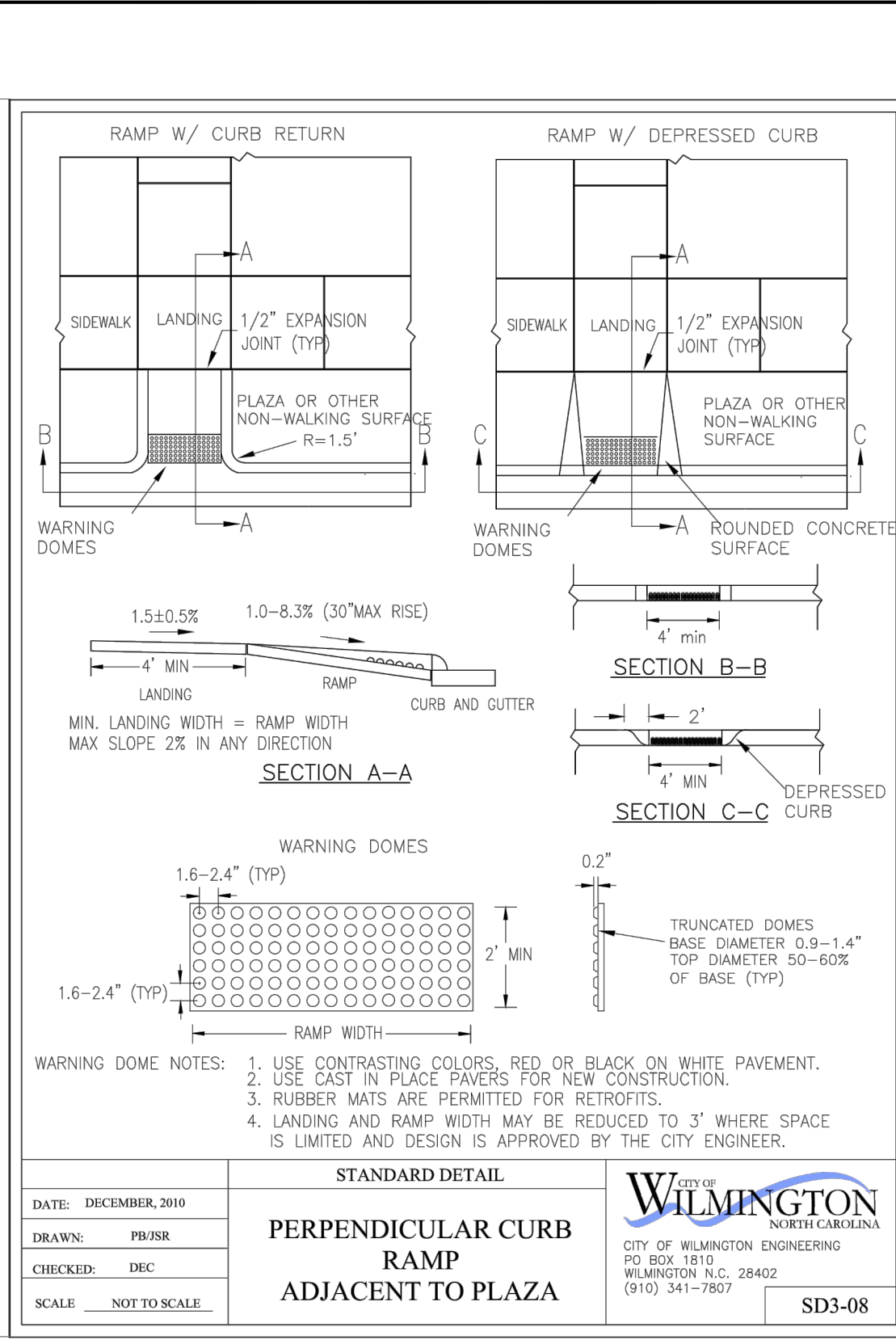
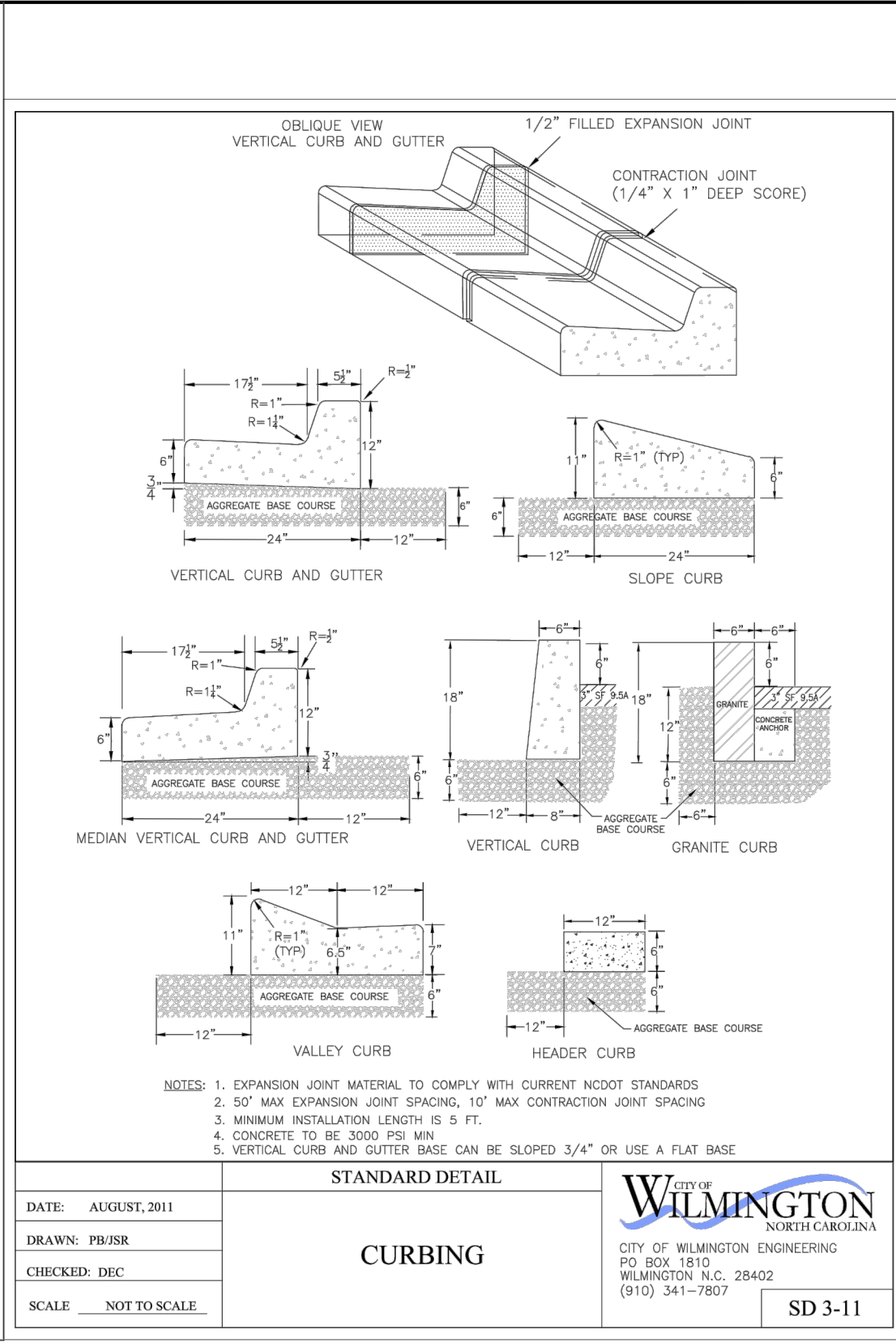
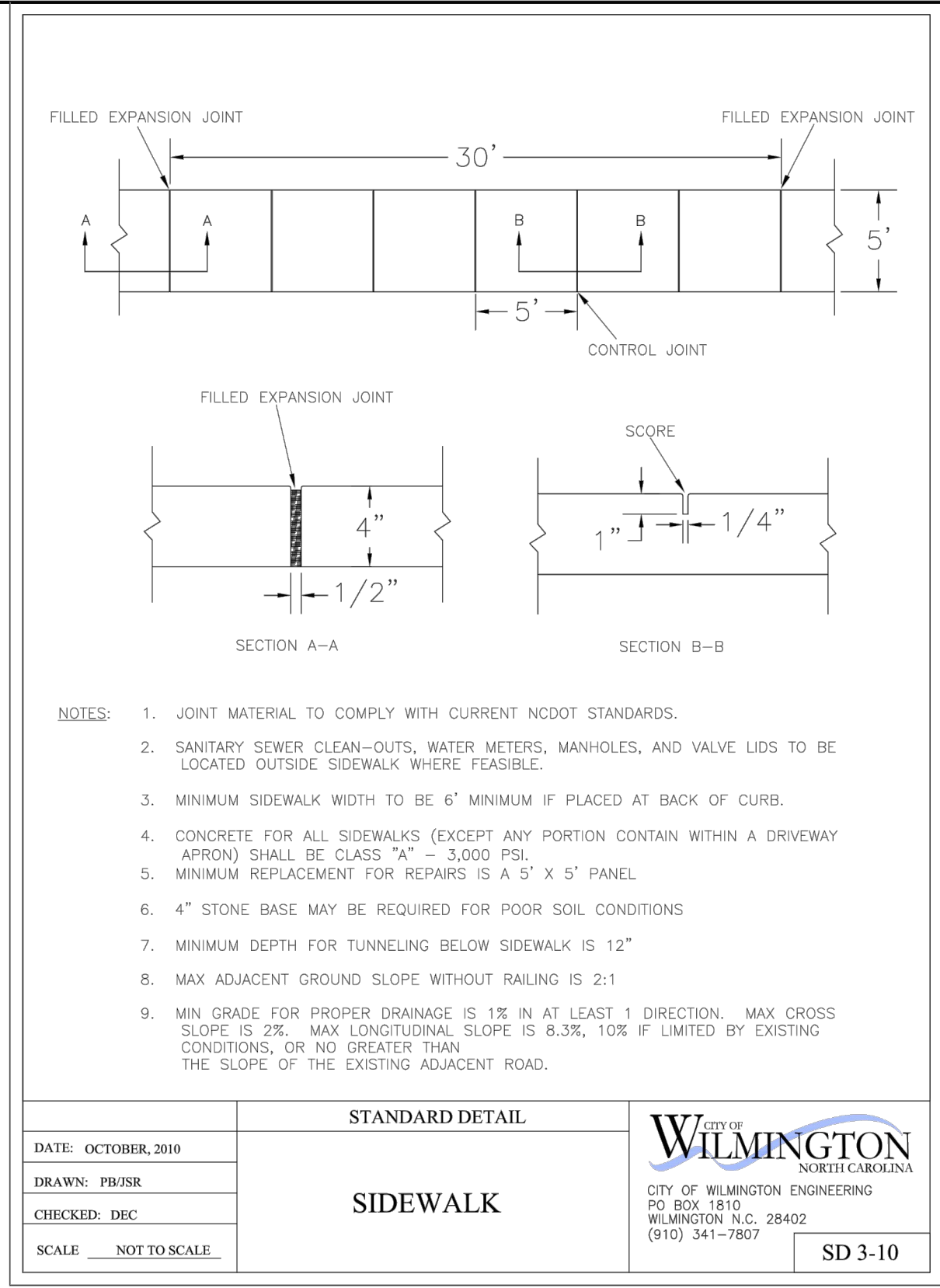
Traffic _____

Fire _____

City of Wilmington
Public Services • Engineering Division
APPROVED STORMWATER MANAGEMENT PLAN

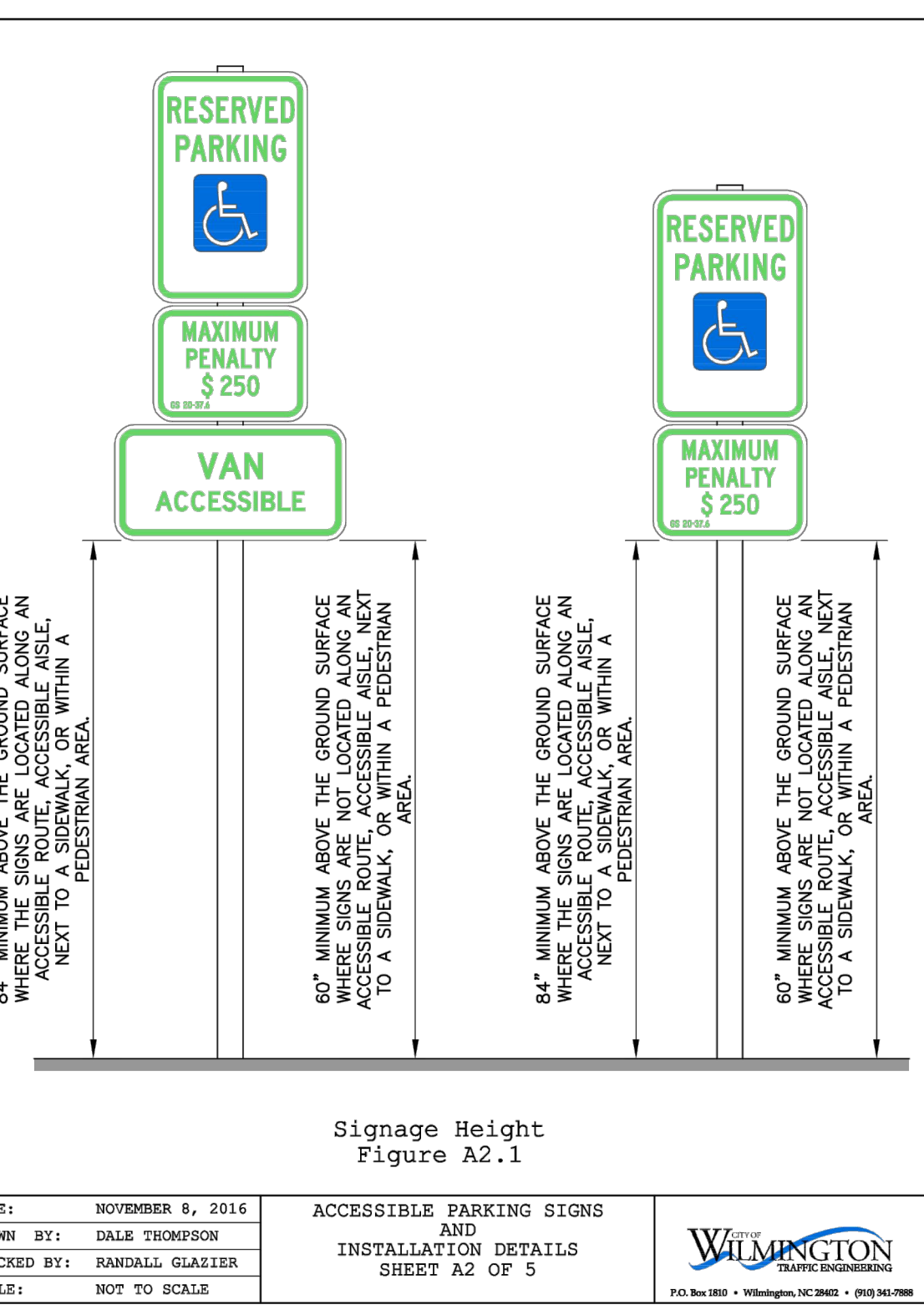
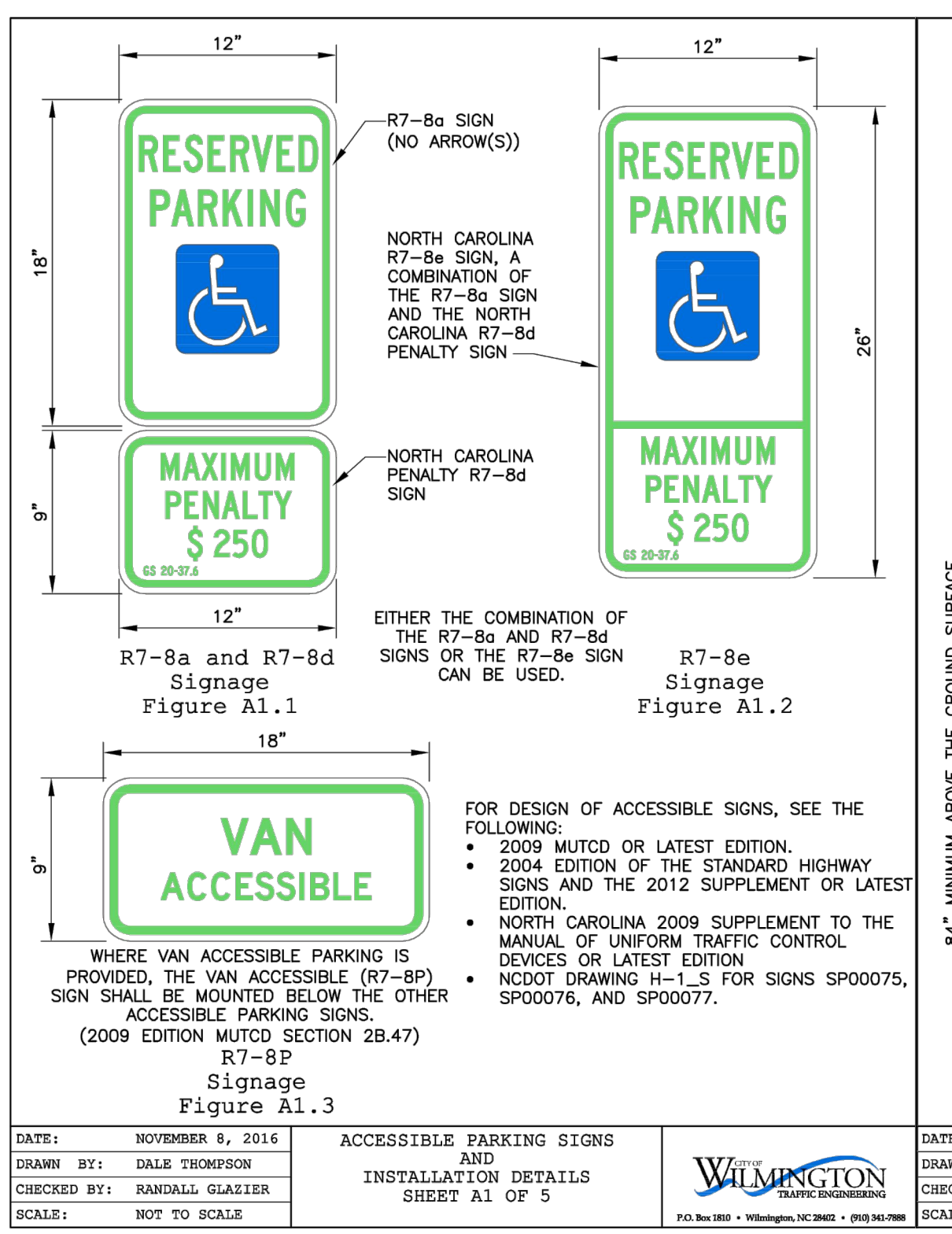
Date: _____ Permit # _____

Signed: _____



REVISIONS

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 Wilmington, North Carolina 28403
 Phone: 910.859.8983
 Email: Charlie@intracoastalengineering.com
 License Number: P-0662



DETAILS FOR HOWARD RV CENTER
 CITY OF WILMINGTON
 NEW HANOVER COUNTY, NC

Professional Seal: CHARLES D. CALZLER, ENGINEER, License No. 032555, dated 2/6/2020.

CLIENT INFORMATION:
 Howard Properties of Wilmington LLC
 6811 Market Mt
 Wilmington, NC 28405

Approved Construction Plan

Name: _____ Date: _____

Public Utilities: _____

Traffic: _____

Fire: _____

City of Wilmington
 NORTH CAROLINA
 Public Services • Engineering Division
 APPROVED STORMWATER MANAGEMENT PLAN

Date: _____ Permit #: _____

Signed: _____

DRAWN:	JAE	SHEET SIZE:	24X36
CHECKED:	CDC	DATE:	2/6/2020
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMBER:	2018-030		

DRAWING NUMBER: **C-4**
 5 OF 5