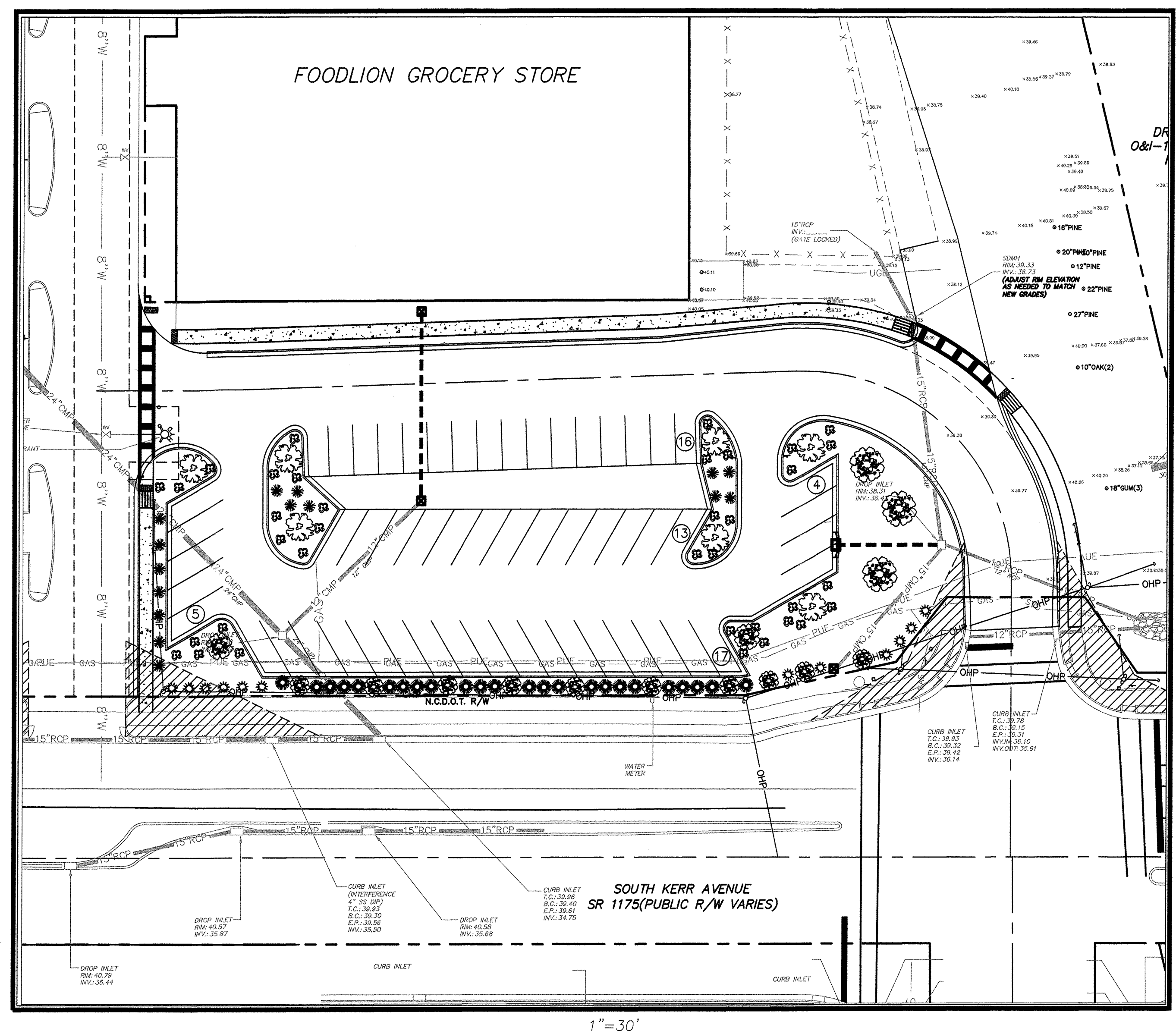
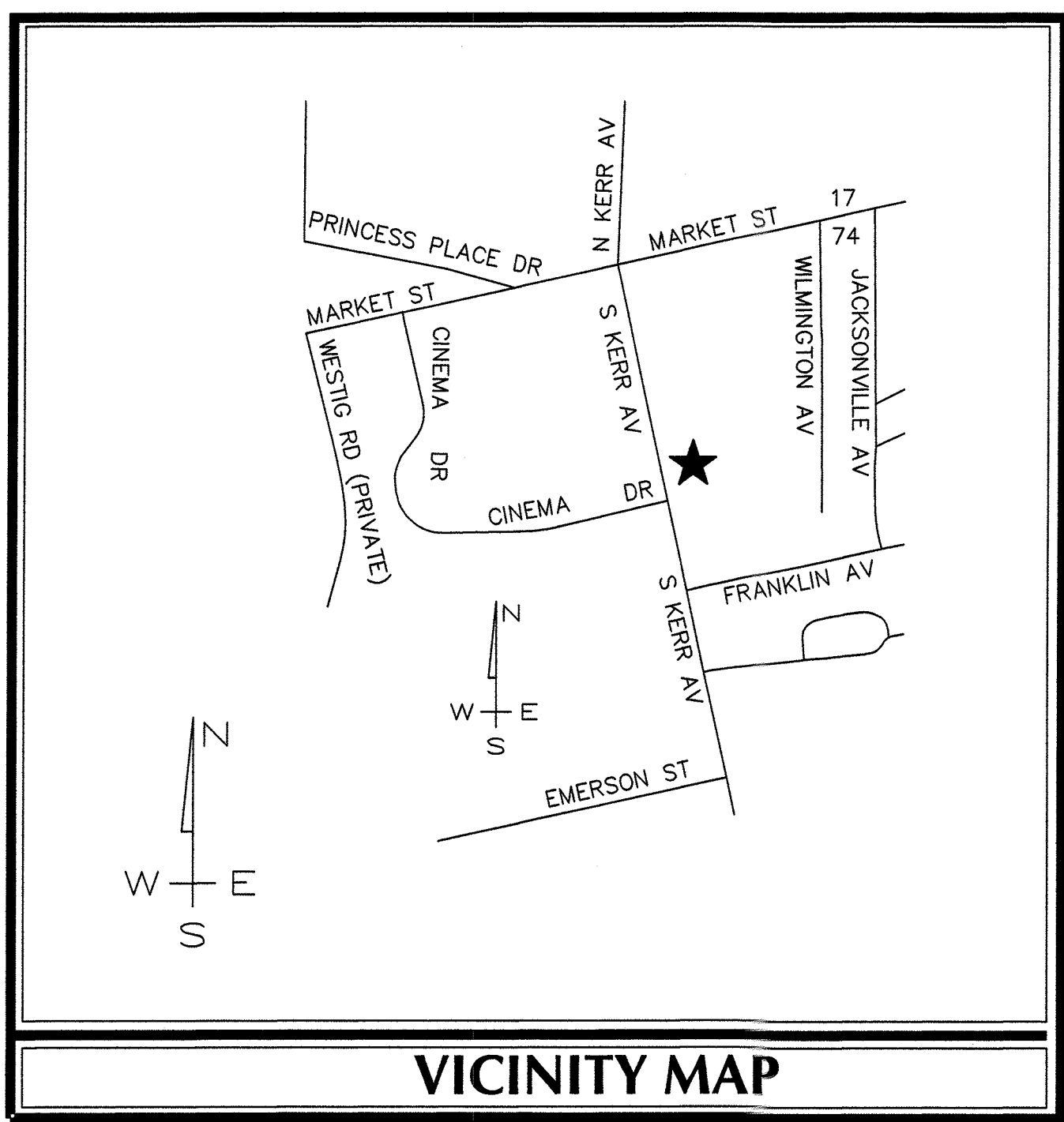


# Site Development For MARKET PLAZA CENTER ACCESS PLAN

**FEBRUARY, 2019  
WILMINGTON, NORTH CAROLINA**

RECEIVED  
MAY 09 2019  
PLANNING DIVISION



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DESCRIPTION	EXISTING	PROPOSED
PROPERTY BOUNDARY	---	---
EASEMENT	---	---
STREAM	---	---
STRUCTURE	---	---
MINOR CONTOURS	- - - 8 - - -	- - - 8 - - -
MAJOR CONTOURS	- - - 10 - - -	- - - 10 - - -
GAS LINE	- G - G -	- G - G -
OVERHEAD POWER	- OHP - OHP -	- OHP - OHP -
WATER LINE	- W - W -	- W - W -
SANITARY SEWER LINE	- SS - SS -	- SS - SS -
SANITARY SEWER MANHOLE	(S)	(S)
STORM DRAINAGE PIPE	---	---
STORM DRAINAGE STRUCTURE	□	■
TREE	○ 1" OAK	●
CONCRETE	▨	▨
SILT FENCE	- SF - SF -	- SF - SF -
TREE PROTECTION FENCE	- TPF - TPF -	- TPF - TPF -
FIRE HYDRANT ASSEMBLY	⊕	⊕
DISTURBED LIMITS	- DL - DL -	- DL - DL -

SITE DATA TABLE	
<b>SITE DATA TABLE:</b>	
1. MARKET PLAZA CENTER ACCESS PLAN	
2. 5 SOUTH KERR AVENUE	
3. PID: R04919-001-008-000	
4. ZONING: RB - REGIONAL BUSINESS	
5. PROJECT ACREAGE: +/- 1.10 AC	
6. DISTURBED ACREAGE: 0.88 AC	
7. BUILDING SIZE: N/A	
8. NEW IMPERVIOUS AREA: 6,866 SF	
IMPERVIOUS AREA BEING REMOVED: 8,431 SF	
DIFFERENCE: (-1,565 SF)	
9. EXISTING PARKING SPACES: 38 (51 BEFORE NCDOT WORK)	
NEW PARKING SPACES: 58	
10. CAMA LAND CLASSIFICATION: URBAN	
11. TRASH IS HANDLED OFFSITE WITHIN THE EXISTING DEVELOPMENT	
12. MARKET PLAZA CENTER PARKING:	
TOTAL RETAIL SQUARE FOOTAGE - 91,352 SF	
MAXIMUM PARKING - 1/200 SF = 457 SPACES	
MINIMUM PARKING - 1/400 SF = 228 SPACES	
EXISTING SPACES - 562 SPACES (TOTAL)	

**PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032  
mhargrove@ec.rr.com**

**OWNER**  
**MARKET PLAZA CENTER, LLC  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405  
TEL: 910-520-4482  
brian.prevatte@wilmingtondevco.com**

**CITY OF WILMINGTON  
NORTH CAROLINA**  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5/9/19 Permit # 2019025  
Signed: *Rich Christman*

**Approved Construction Plan**  
Name: *Jeff Walker* Date: *5-9-19*  
Traffic: *W-S-M-D* *5-9-19*  
Fire: *Fire Ok* *5-9-19*



**NOTE:**  
ALL DESIGN AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH CITY OF WILMINGTON & THE STATE OF NORTH CAROLINA



**COORDINATION NOTES**

1. THE CONTRACTOR IS REQUIRED TO OBTAIN ANY/ALL PERMITS REQUIRED FOR CONSTRUCTION OF THESE PLANS.
2. ALL WORK IS TO BE IN ACCORDANCE WITH NEW HANOVER COUNTY, THE CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) AND THE STATE OF NORTH CAROLINA.
3. THE CONTRACTOR IS TO ESTABLISH AND CHECK ALL HORIZONTAL AND VERTICAL CONTROLS TO BE USED WITH THE PROJECT. IN ADDITION, THE CONTRACTOR IS TO COMPUTE THE LAYOUT OF THE ENTIRE SITE PLAN IN ADVANCE OF BEGINNING ANY WORK ASSOCIATED WITH THE SUBJECT PLANS. CONTRACTOR SHALL EMPLOY A PROFESSIONAL SURVEYOR TO PERFORM SITE IMPROVEMENT STAKEOUT(S).
4. ANYTIME WORK IS PERFORMED OFF-SITE OR WITHIN AN EXISTING EASEMENT, THE CONTRACTOR IS TO NOTIFY THE HOLDER OF SAID EASEMENT AS TO THE NATURE OF PROPOSED WORK, AND TO FOLLOW ANY GUIDELINES OR STANDARDS WHICH ARE ASSOCIATED WITH OR REFERENCED IN THE RECORDED EASEMENT.

**GENERAL NOTES:**

1. EXISTING TOPOGRAPHY, BOUNDARY AND UTILITIES, HAVE BEEN PREPARED BY FIELD SURVEY BY MICHAEL UNDERWOOD AND ASSOCIATES, PA.
2. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF ALL EXISTING UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF DITCHING OPERATIONS BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES. IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF TRENCHING OPERATIONS SO AS TO ELIMINATE OR MINIMIZE DAMAGE TO EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING LOSS OF UTILITY REVENUES. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC...
3. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
4. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAGMEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE DOT.
5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
6. ALL WORK BY THE CONTRACTOR SHALL BE WARRANTED BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE OWNER ACCEPTS THE WORK.
7. CONTRACTOR SHALL CALL THE NORTH CAROLINA ONE-CALL CENTER AT 1 (800) 632-4949 AND ALLOW THE CENTER TO LOCATE EXISTING UTILITIES BEFORE DIGGING.
8. CONTRACTOR SHALL REMOVE ASPHALT, AGGREGATE BASE COURSE, AND CONCRETE CURB & GUTTER WITHIN LIMITS OF DEMOLITION AS SHOWN ON PLAN.

**DEMOLITION NOTES**

1. CONTRACTOR TO COORDINATE WITH THE OWNER TO PROPERLY MAINTAIN OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR IS TO WALK THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF DEMOLITION REQUIRED. ALL DEMOLITION WORK REQUIRED TO CONSTRUCT NEW SITE IMPROVEMENTS WILL BE PERFORMED BY THE CONTRACTOR AND WILL BE UNCLASSIFIED EXCAVATION.
3. DEMOLITION SHALL INCLUDE BUT IS NOT LIMITED TO THE EXCAVATION, HAULING AND OFFSITE DISPOSAL OF CONCRETE PADS, CONCRETE DITCHES, FOUNDATIONS, SLABS, STEPS, AND STRUCTURES; ABANDONED UTILITIES, BUILDINGS, PAVEMENTS AND ALL MATERIALS CLEARED AND STRIPPED TO THE EXTENT NECESSARY AS DIRECTED BY THE SOILS ENGINEER FOR THE INSTALLATION OF THE NEW IMPROVEMENTS AND WITHIN THE LIMITS OF CLEARING AND GRADING AS SHOWN ON THESE PLANS.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES ON THE PROPERTY NOT TO BE DEMOLISHED. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO OWNER.
5. ELECTRIC, TELEPHONE, SANITARY SEWER, WATER AND STORM SEWER UTILITIES THAT SERVICE OFF-SITE PROPERTIES SHALL BE MAINTAINED DURING THE CONSTRUCTION PROCESS BY THE CONTRACTOR.
6. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING DEMOLITION.
7. ALL EXISTING IMPROVEMENTS INDICATED OR REQUIRED TO BE DEMOLISHED SHALL INCLUDE REMOVAL FROM THE PROPERTY AND PROPER DISPOSAL.
8. CONTRACTOR SHALL COORDINATE RELOCATION OF ALL EXISTING OVER HEAD AND UNDERGROUND UTILITIES INCLUDING CABLE, GAS, TELEPHONE AND ELECTRIC AND ANY OTHER UTILITIES THROUGH THE SITE WITH THE RESPECTIVE COMPANIES.
9. PROVIDE SMOOTH SAW CUT OF EXISTING PAVEMENTS, CURBS AND GUTTERS AND SIDEWALKS TO BE DEMOLISHED.
10. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS OSHA REGULATIONS.
11. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS, BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATIONS OF THE MAINS BY DIGGING TEST PITS BY HAND.

**EROSION AND SEDIMENT CONTROL NOTES**

**GENERAL NOTES:**

1. CLEAR AND REMOVE FROM SITE ALL TREES, ROOTS, ROOT MAT, ETC. FROM THE AREA WITHIN DESIGNATED CLEARING LIMITS.
2. PLANT GRASS OVER ALL GRADED AREAS AS SHOWN IN THE TABLE ON THIS SHEET OF CEASE OF ANY GRADING ACTIVITY.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND RESTORING TO PRE-CONSTRUCTION CONDITIONS ANY AREAS OUTSIDE THE PROJECT LIMITS THAT MAY INADVERTENTLY BE DAMAGED DUE TO THE FAILURE OF THE EROSION MEASURES.
4. DURING GRADING AND AFTER GRADING HAS BEEN COMPLETED, CONTRACTOR SHALL CONTINUE TO MAINTAIN PERMANENT AND TEMPORARY EROSION CONTROL MEASURES UNTIL FINAL INSPECTION AND APPROVAL BY NEW HANOVER COUNTY.
5. WATER, FERTILIZE, MOW AND MAINTAIN SPRIGGED, SODDED AND PLANTED AREAS UNTIL FINAL APPROVAL BY NEW HANOVER COUNTY.
6. ANY BORROW MATERIAL BROUGHT ONTO SITE MUST BE FROM A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.
7. ANY EXCESS MATERIAL REMOVED FROM SITE MUST BE HAULED TO A LEGALLY OPERATED MINE OR OTHER APPROVED SOURCE.

**MAINTENANCE PLAN**

1. 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 DESIGNED.
2. ALL CONSTRUCTION ENTRANCES WILL BE PERIODICALLY TOP DRESSED WITH AN ADDITIONAL 2 INCHES OF #4 STONE TO MAINTAIN PROPER DEPTH. ANY SEDIMENT THAT IS TRACKED INTO THE STREET WILL BE IMMEDIATELY REMOVED.
3. SEDIMENT WILL BE REMOVED BEHIND THE SEDIMENT FENCE WHEN IT BECOMES 0.5 FEET DEEP AT THE FENCE. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER. SILT FENCE STAKES WILL BE SPACED 6 FEET APART UNLESS A WIRE BACKING IS USED WITH 8 FOOT STAKE SPACING.
4. INSPECT INLET PROTECTION 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.  
INSPECT SILT SACKS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE SILT SACK OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE THE SILT SACK DURING SEDIMENT REMOVAL. REPLACE AS NEEDED.
5. ALL SEEDED AREAS WILL BE FERTILIZED, RESEDED AS NECESSARY, AND MULCHED ACCORDING TO SPECIFICATIONS IN THE VEGETATIVE PLAN TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.

**PERMANENT SEEDING SCHEDULE**

Seeding Mixture  
SPECIES RATE (LB/ACRE)  
CAROLINA COASTAL SEED MIX (BLEND) 200

Seeding Dates  
MARCH - JUNE

Soil Amendments  
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TESTS, OR APPLY 300 LB/ACRE 10-10-10 FERTILIZER.  
CHECK WITH OWNER PRIOR TO APPLYING. ALL CHEMICALS MUST BE PREAPPROVED BY GE.

Mulch  
DO NOT MULCH.

Maintenance By Owner  
FERTILIZE VERY SPARINGLY LB/ACRE NITROGEN IN SPRING WITH NO PHOSPHORUS. CENTIPEDE GRASS CANNOT TOLERATE HIGH PH OR EXCESS FERTILIZER.

**TEMPORARY SEEDING-LATE WINTER/EARLY SPRING**

Seeding Mixture WINTER AND EARLY SPRING

SPECIES  
Rye (GRAIN)  
ANNUAL LESPEDEZA (KOBE IN PIEDMONT AND COASTAL PLAIN, KOREAN IN MOUNTAINS)  
OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.

SUMMER  
SPECIES RATE (LB/ACRE)  
GERMAN MILLET 120  
50

FALL  
SPECIES RATE (LB/ACRE)  
RYE (GRAIN) 40

Seeding dates  
COASTAL PLAIN - DEC.1-APR. 15 - LATE WINTER AND EARLY SPRING  
APRIL 15 - AUG. 15 - SUMMER  
AUG. 15 - DEC. 30 - FALL

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

Mulch  
APPLY 4,000 LB/ACRE STRAW. ANCHOR STRAW BY 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.

**GENERAL GRADING NOTES**

1. REASONABLE CARE HAS BEEN EXERCISED IN SHOWING THE LOCATION OF EXISTING UTILITIES ON THE PLANS. THE EXACT LOCATION OF SUCH UTILITIES IS NOT KNOWN IN ALL CASES. THE CONTRACTOR SHALL EXPLORE THE AREA AHEAD OF THE DITCHING OPERATION BY OBSERVATIONS, ELECTRONIC DEVICES, HAND DIGGING AND BY PERSONAL CONTACT WITH THE UTILITY COMPANIES IN ORDER TO LOCATE EXISTING UTILITIES IN ADVANCE OF THE TRENCHING OPERATIONS SO AS TO AVOID AND PREVENT DAMAGE TO THE EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COST RESULTING FROM ANY DAMAGE TO THE EXISTING UTILITY LINES INCLUDING REPAIRS AND LOSS SERVICE REVENUE. CONTRACTOR SHALL ARRANGE FOR TEMPORARY SUPPORT OF EXISTING UTILITIES, SUCH AS POLES, CONDUITS, FIBER OPTIC CABLES, TELEPHONE CABLES, WATER LINES, ETC...
2. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OCCUPATIONAL SAFETY AND HEALTH ACT.
3. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK SO AS TO CAUSE MINIMUM INCONVENIENCE TO THE OWNER AND THE PUBLIC. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN AT ALL TIMES DURING THE PROGRESS OR TEMPORARY SUSPENSION OF WORK, SUITABLE BARRIERS, FENCES, SIGNS OR OTHER ADEQUATE PROTECTION, INCLUDING FLAG MEN AND WATCHMEN AS NECESSARY TO INSURE THE SAFETY OF THE PUBLIC AS WELL AS THOSE ENGAGED IN THE CONSTRUCTION WORK. CONSTRUCTION SIGNING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "CONSTRUCTION AND MAINTENANCE OPERATIONS SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE NCDOT.
4. ALL MATERIAL CLEARED AND GRUBBED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK, SUCH AS TREES, VEGETATION, FENCING, ETC... SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE OR BURNED IF PROPER PERMITS ARE RECEIVED.

**SITE NOTES**

1. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND R.O.W.'S PUBLIC OR PRIVATE, PRIOR TO WORKING IN THESE AREAS.
3. CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
4. ACCESS TO UTILITIES, FIRE HYDRANTS, STREET LIGHTING, ETC., SHALL REMAIN UNDISTURBED, UNLESS COORDINATED WITH THE RESPECTIVE UTILITY.
5. DO NOT SCALE THIS DRAWING AS IT IS A REPRODUCTION AND SUBJECT TO DISTORTION.
6. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
7. THE GENERAL CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE OWNER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE ENGINEER.
9. IF DEPARTURES FROM THE SPECIFICATIONS OR DRAWINGS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE GIVEN TO THE OWNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENT SHALL BE MADE WITHOUT THE PERMISSION OF THE OWNER.
10. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES. THE LOCATION OF ALL EXISTING UTILITIES ARE NOT NECESSARILY SHOWN ON PLANS AND WHERE SHOWN ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL ON HIS INITIATIVE AND AT NO EXTRA COST HAVE LOCATED ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. NO CLAIMS FOR DAMAGES OR EXTRA COMPENSATION SHALL ACCRUE TO THE CONTRACTOR FROM THE PRESENCE OF SUCH PIPE OTHER OBSTRUCTIONS OR FROM DELAY DUE TO REMOVAL OR REARRANGEMENT OF THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UNDERGROUND STRUCTURES. CONTACT NORTH CAROLINA ONE CALL TOLL FREE 1-800-632-4949 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL NONSUBSCRIBING UTILITIES.
11. ALL PERMITS RELATIVE TO PROJECT MUST BE OBTAINED, PRIOR TO CONSTRUCTION
12. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH PERMITS ISSUED AND APPLICABLE STATE, COUNTY, AND LOCAL CODES.
13. FOR BUILDING DIMENSIONS, SEE ARCHITECTURAL DRAWINGS.
14. ALL DIMENSIONS AND RADII ARE TO OUTSIDE FACE OF BUILDING OR TO FACE OF CURB UNLESS OTHERWISE NOTED.
15. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL INSPECTIONS, CERTIFICATIONS, EQUIPMENT, ETC., THAT MAY BE REQUIRED.
16. THE ENGINEER AND/OR OWNER DISCLAIM ANY ROLE IN THE CONSTRUCTION MEANS AND METHODS ASSOCIATED WITH THE PROJECT AS SET FORTH IN THESE PLANS.

**GENERAL STORM SEWER NOTES**

1. ALL STORM SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH NEW HANOVER COUNTY AND THE STATE OF NORTH CAROLINA REQUIREMENTS AS SPECIFIED ON THE DRAWINGS AND IN THE PROJECT SPECIFICATIONS.
2. BEDDING FOR ALL STORM SEWER PIPE SHALL BE AS SPECIFIED ON THE DRAWINGS, PROJECT SPECIFICATIONS, AND MANUFACTURER SPECIFICATIONS.
3. ALL STORM SEWER PIPES TO BE HDPE ADS N-12 OR EQUIVALENT, UNLESS OTHERWISE SPECIFIED.
4. ALL STORM SEWER PIPES SHOWN AS RCP ON THE PLANS SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM C-76, UNLESS INDICATED OTHERWISE ON PLANS.

**EXISTING UTILITY NOTES**

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THE ACTUAL LOCATION AND AVAILABILITY OF ALL EXISTING AND PROPOSED UTILITIES IN THE FIELD PRIOR TO GROUND BREAKING.
2. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL FIELD VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.

**UTILITY CONTACTS:**

1. CONTACT THE NORTH CAROLINA ONE CALL CENTER PRIOR TO DOING AND DIGGING. 1-800-632-4949

**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.

CONTRACTORS SHALL NOTIFY OPERATORS WHO MAINTAIN UNDERGROUND UTILITY LINES IN THE AREA OF PROPOSED EXCAVATION AT LEAST THREE WORKING DAYS, BUT NOT MORE THAN TWELVE WORKING DAYS PRIOR TO ANY EXCAVATION OR DEMOLITION.

CONTACT "CAROLINA ONE CALL" AT  
1-800-632-4949 or 811  
EMERGENCY DIAL 911 POLICE - FIRE - RESCUE

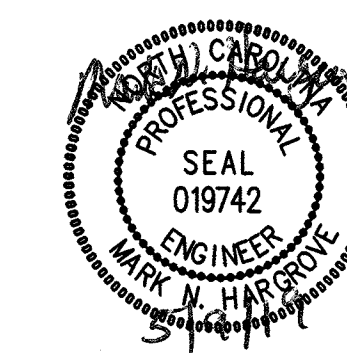
**NPDES NOTES**

GROUND STABILIZATION		
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
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 FEET IN LENGTH
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)

2. BUILDING WASTES HANDLING
    1. NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS
    2. DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVE AVAILABLE.
    3. EARTHEN-MATERIALS STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES AVAILABLE.
    4. CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE WATERS, WETLANDS OR BUFFERS.
  3. INSPECTIONS
    1. SAME WEEKLY INSPECTION REQUIREMENTS
    2. SAME RAIN GAUGE & INSPECTIONS AFTER 0.5" RAIN EVENT
    3. INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"
    4. INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED.
    5. RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST.
    6. ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN CONDITIONS.
  4. SEDIMENT BASINS
    1. OUTLET STRUCTURES MUST WITHDRAW FROM BASIN SURFACE UNLESS DRAINAGE AREA IS LESS THAN 1 ACRE.
    2. USE ONLY DWQ-APPROVED FLOCCULENTS.
- NPDES - SPECIFIC PLAN SHEET NOTES
1. THIS PAGE IS SUBMITTED TO COMPLY WITH NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
  2. THIS PAGE CAN BE APPROVED BY THE COUNTY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000 ONLY.
  3. THIS PAGE OF APPROVED PLANS IS ENFORCEABLE EXCLUSIVELY PURSUANT TO NPDES GENERAL STORMWATER PERMIT NCG010000.
  4. 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 TEH COUNTY CODE.

City of WILMINGTON NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5/19/19 Permit # 2019025  
Signed: Rich Christman

Approved Construction Plan  
Name: Jeff Walter Date: 5-9-19  
Planning: [Signature] 5-9-19  
Traffic: [Signature] 5-9-19  
Fire: [Signature] 5-10-19



No.	Revision	Date	By	Designer	Scale
				MNH	AS SHOWN
				MNH	FEBRUARY, 2019
				MNH	Job No.

MARKET PLAZA CENTER ACCESS PLAN  
NORTH CAROLINA

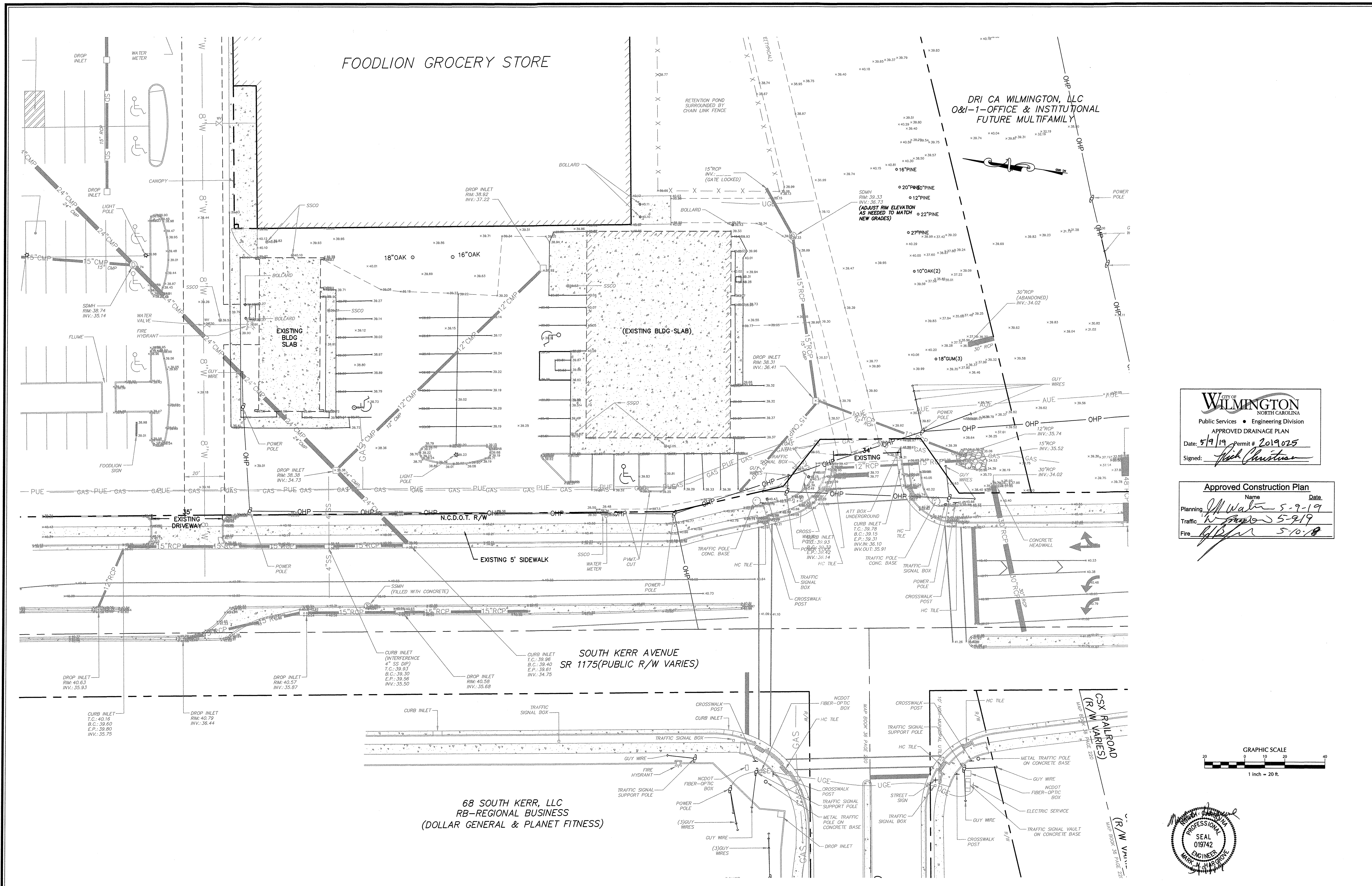
MARKET PLAZA CENTER ACCESS, LLC  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405


PORT CITY CONSULTING ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

GENERAL NOTES

Sheet No. C-1

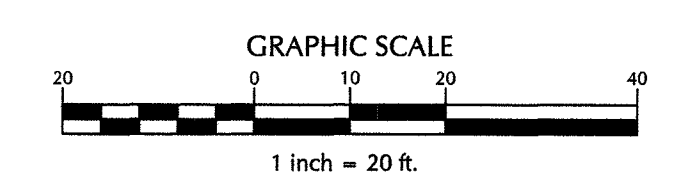




  
 CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN  
 Date: 5/9/19 Permit # 2019025  
 Signed: *Rich Christian*

Approved Construction Plan

Name	Date
Planning: <i>Off. Walter</i>	5-9-19
Traffic: <i>W. Brown</i>	5-9-19
Fire: <i>H. Brown</i>	5-10-18



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

**MARKET PLAZA CENTER ACCESS PLAN**  
 WILMINGTON NORTH CAROLINA

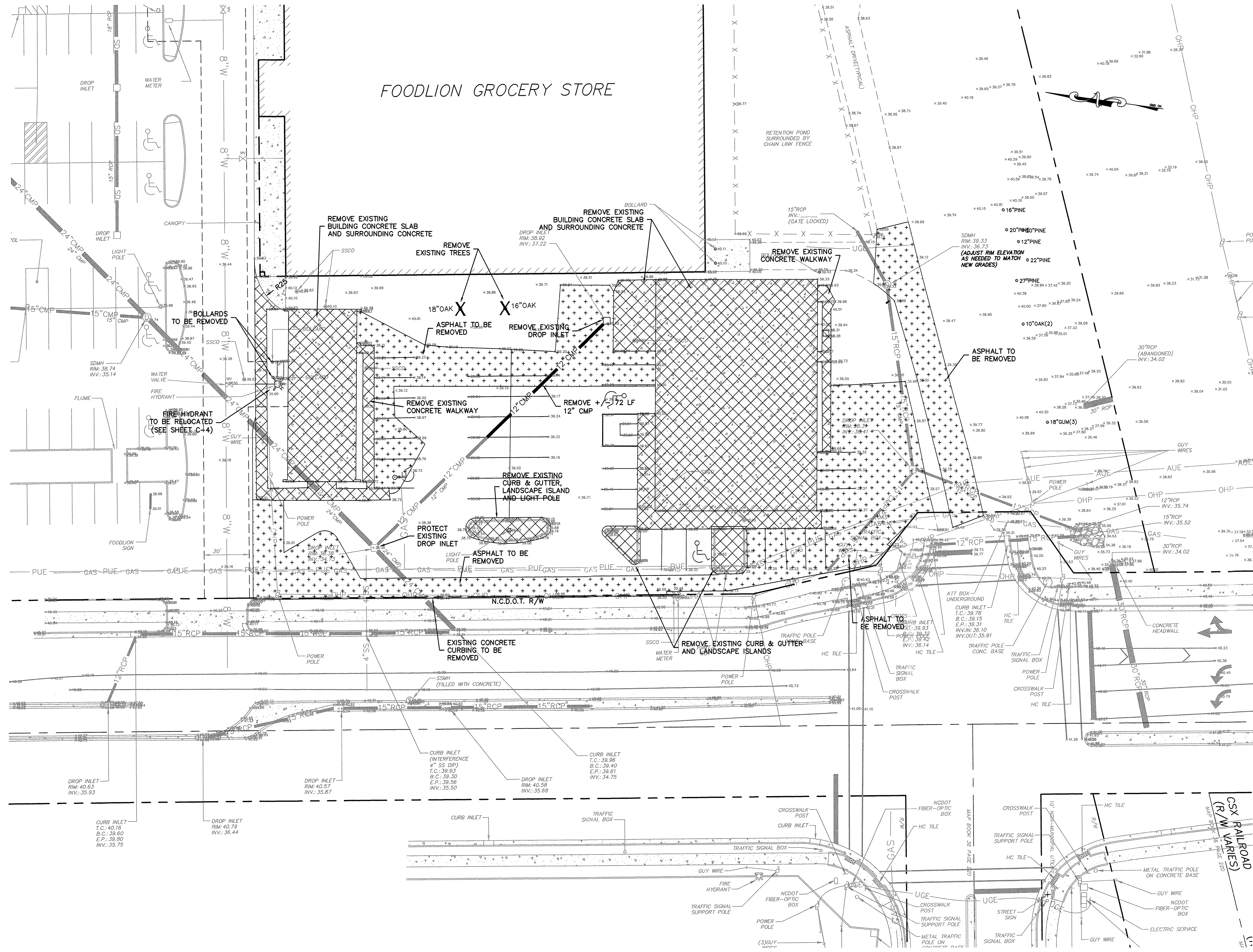
MARKET PLAZA CENTER, LLC  
 3013-HALL WATERS DRIVE, SUITE A  
 WILMINGTON, NC 28405

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**EXISTING CONDITIONS**

Sheet No.  
**C-2**

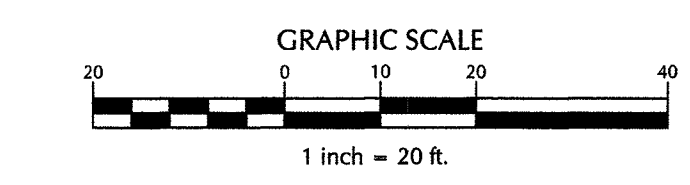




FOODLION GROCERY STORE

City of WILMINGTON, NORTH CAROLINA
   
 Public Services • Engineering Division
   
 APPROVED DRAINAGE PLAN
   
 Date: 5/19/19 Permit # 2019025
   
 Signed: Rich Christman

Approved Construction Plan
   
 Name: \_\_\_\_\_ Date: \_\_\_\_\_
   
 Planning: J. Wilton 5-9-19
   
 Traffic: W. Smith 5-9-19
   
 Fire: B. B. 5-10-19



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

**MARKET PLAZA CENTER ACCESS PLAN**  
 WILMINGTON NORTH CAROLINA

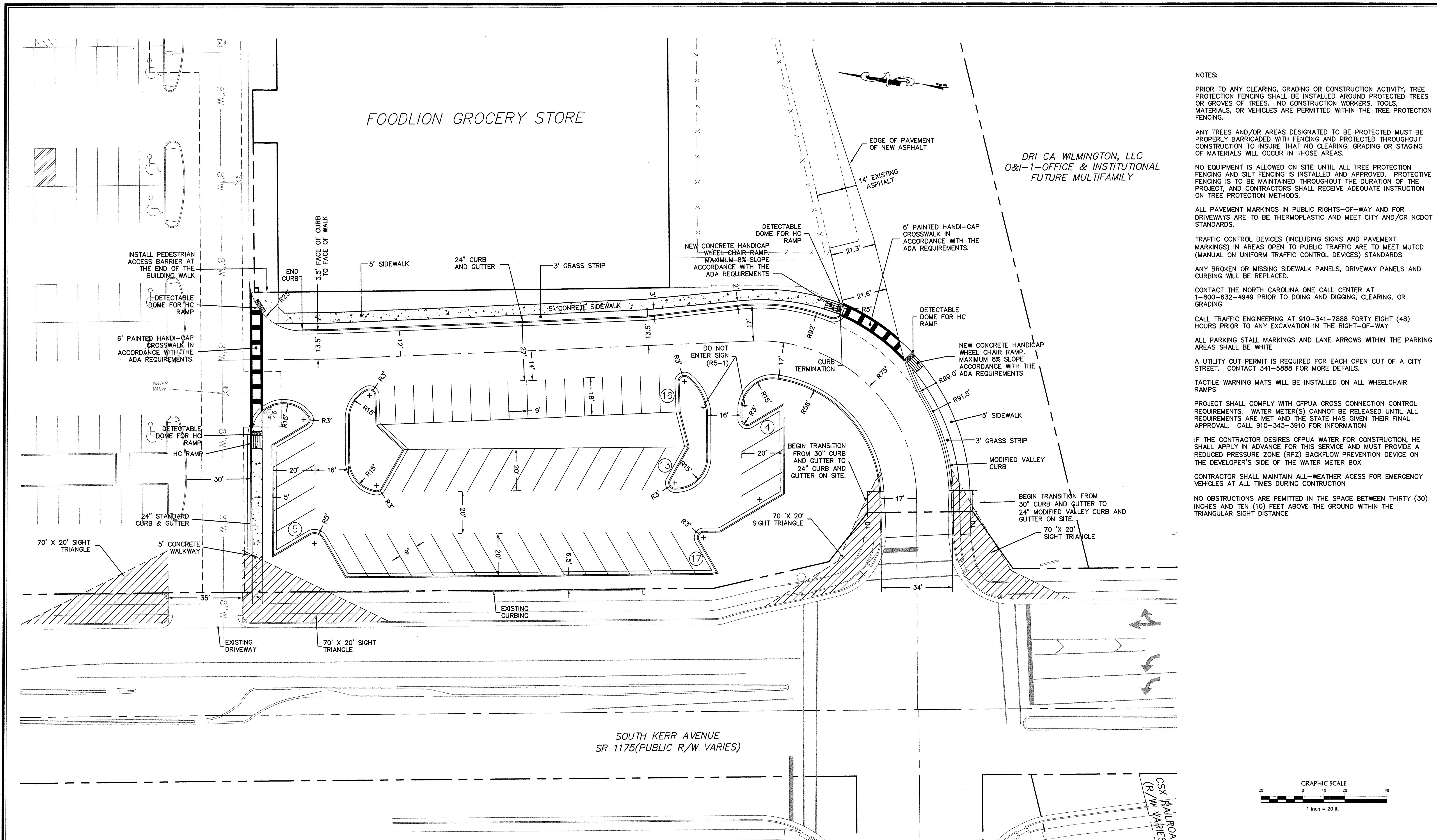
MARKET PLAZA CENTER, LLC  
 3013-HALL WATERS DRIVE, SUITE A  
 WILMINGTON, NC 28405

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**EXISTING CONDITIONS**

Sheet No.  
**C-2.1**





NOTES:

PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES. NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.

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.

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 INSTRUCTION ON TREE PROTECTION METHODS.

ALL PAVEMENT MARKINGS IN PUBLIC RIGHTS-OF-WAY AND FOR DRIVEWAYS ARE TO BE THERMOPLASTIC AND MEET CITY AND/OR NCDOT STANDARDS.

TRAFFIC CONTROL DEVICES (INCLUDING SIGNS AND PAVEMENT MARKINGS) IN AREAS OPEN TO PUBLIC TRAFFIC ARE TO MEET MUTCD (MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES) STANDARDS

ANY BROKEN OR MISSING SIDEWALK PANELS, DRIVEWAY PANELS AND CURBING WILL BE REPLACED.

CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING AND DIGGING, CLEARING, OR GRADING.

CALL TRAFFIC ENGINEERING AT 910-341-7888 FORTY EIGHT (48) HOURS PRIOR TO ANY EXCAVATION IN THE RIGHT-OF-WAY

ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE

A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET. CONTACT 341-5888 FOR MORE DETAILS.

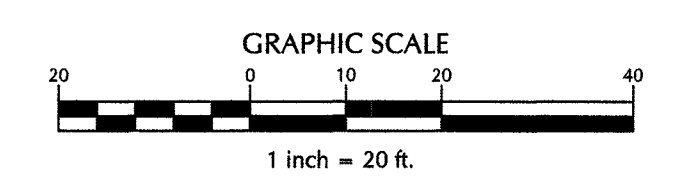
TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS

PROJECT SHALL COMPLY WITH CFPWA CROSS CONNECTION CONTROL REQUIREMENTS. WATER METER(S) CANNOT BE RELEASED UNTIL ALL REQUIREMENTS ARE MET AND THE STATE HAS GIVEN THEIR FINAL APPROVAL. CALL 910-343-3910 FOR INFORMATION

IF THE CONTRACTOR DESIRES CFPWA 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

CONTRACTOR SHALL MAINTAIN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION

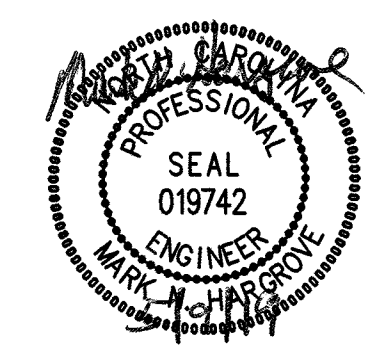
NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE



**CITY OF WILMINGTON**  
 NORTH CAROLINA  
 Public Services • Engineering Division  
**APPROVED DRAINAGE PLAN**  
 Date: 5/9/19 Permit # 2019025  
 Signed: *Joel Christman*

**Approved Construction Plan**

Name	Date
Planning: <i>W. W. W. W.</i>	5-9-19
Traffic: <i>W. W. W. W.</i>	5-9-19
Fire: <i>R. B. B. B.</i>	5-10-19



No.	Revision	Date	By

Designer: MNH  
 Drawn By: MNH  
 Checked By: MNH  
 Scale: AS SHOWN  
 Date: JANUARY, 2019  
 Job No.:

**MARKET PLAZA CENTER ACCESS PLAN**  
 WILMINGTON NORTH CAROLINA

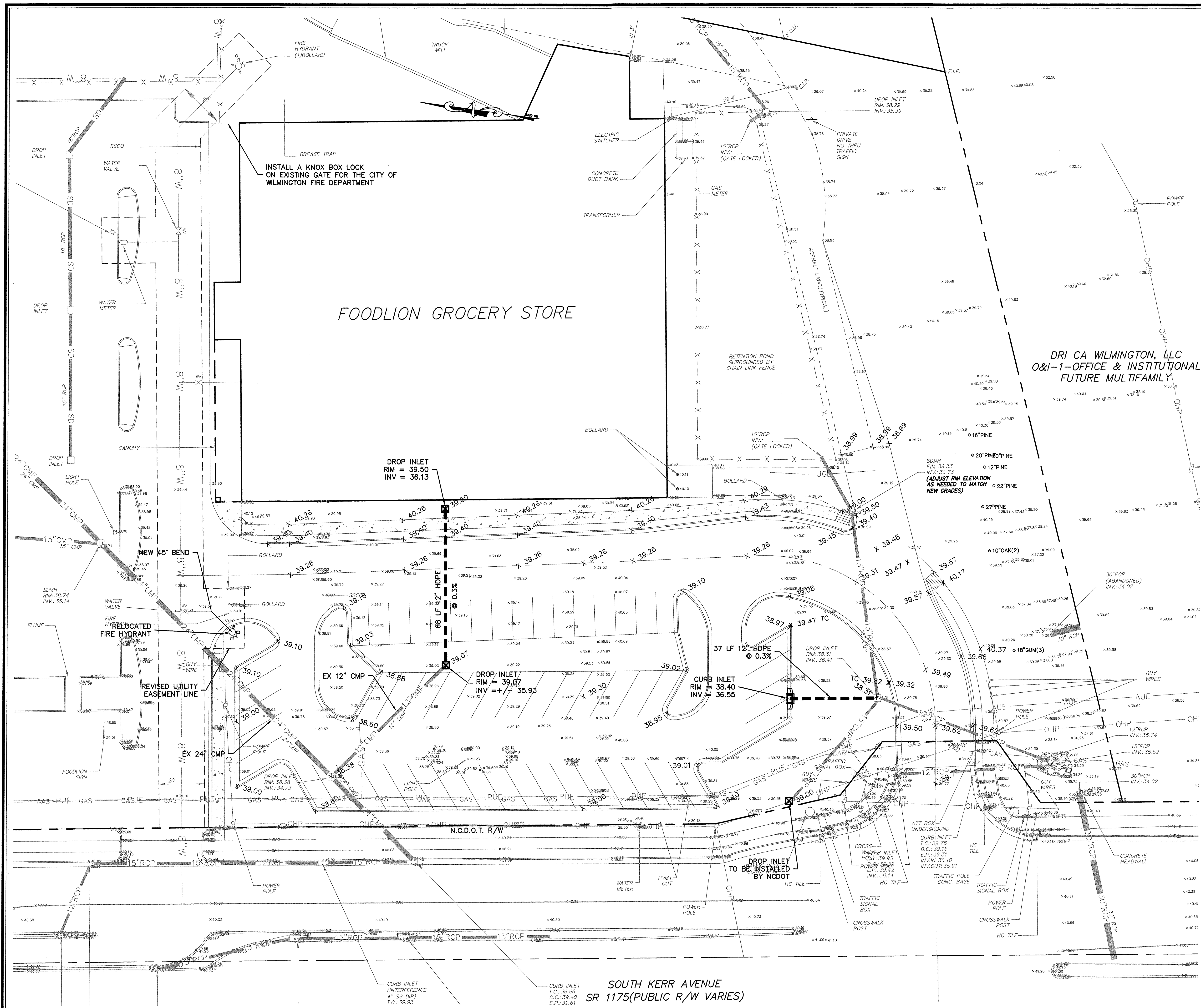
MARKET PLAZA CENTER, LLC  
 3013-HALL WATERS DRIVE, SUITE A  
 WILMINGTON, NC 28405


PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**SITE PLAN & LAYOUT**

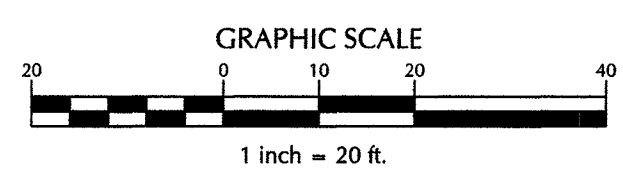
Sheet No. **C-3**





  
 CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN  
 Date: 5/19/19 Permit # 2019 025  
 Signed: *Felix Christman*

**Approved Construction Plan**  
 Name \_\_\_\_\_ Date \_\_\_\_\_  
 Planning *W. Walter* 5-9-19  
 Traffic *W. Walter* 5-9-19  
 Fire *B. P. P.* 5-10-19



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

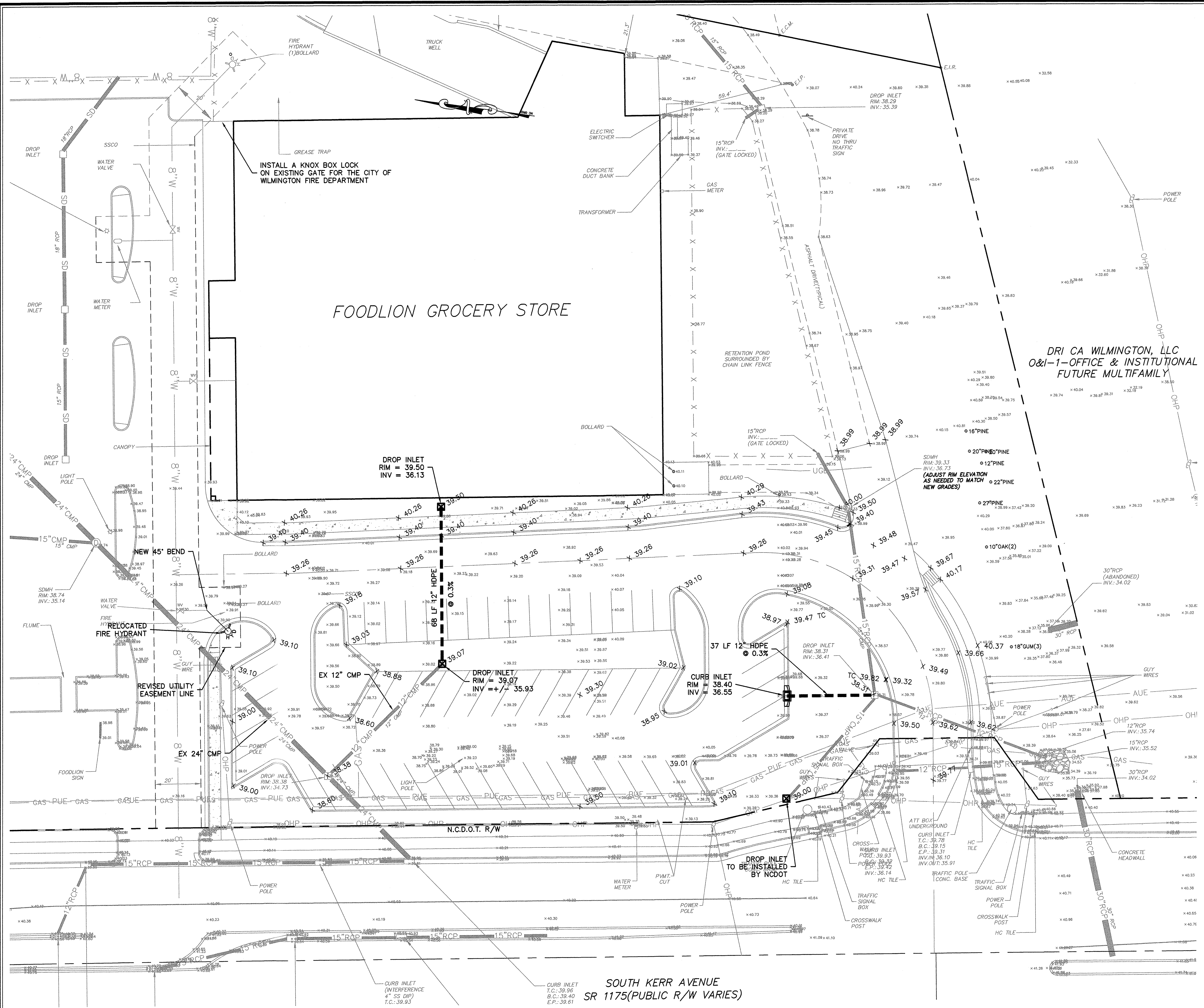
**MARKET PLAZA CENTER ACCESS PLAN**  
 WILMINGTON NORTH CAROLINA

MARKET PLAZA CENTER, LLC  
 3013-HALL WATERS DRIVE, SUITE A  
 WILMINGTON, NC 28405

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

**GRADING, DRAINAGE AND  
 UTILITY PLAN**





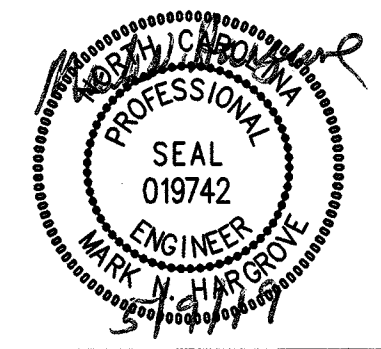
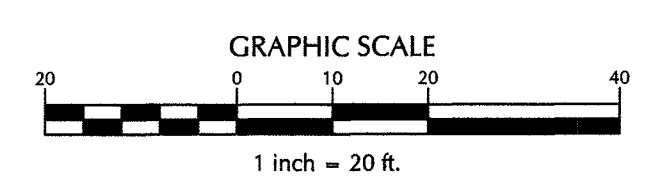
INSTALL A KNOX BOX LOCK ON EXISTING GATE FOR THE CITY OF WILMINGTON FIRE DEPARTMENT

FOODLION GROCERY STORE

DRI CA WILMINGTON, LLC  
O&I-OFFICE & INSTITUTIONAL  
FUTURE MULTIFAMILY

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5/9/19 Permit # 2019025  
Signed: *Rich Christman*

**Approved Construction Plan**  
Name: *Off. Walters* Date: *5-9-19*  
Planning: *W. Walters*  
Traffic: *W. Walters*  
Fire: *B. B. B.*



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

**MARKET PLAZA CENTER ACCESS PLAN**  
WILMINGTON NORTH CAROLINA

**MARKET PLAZA CENTER, LLC**  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405

**PORT CITY CONSULTING ENGINEERS, PLLC**  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

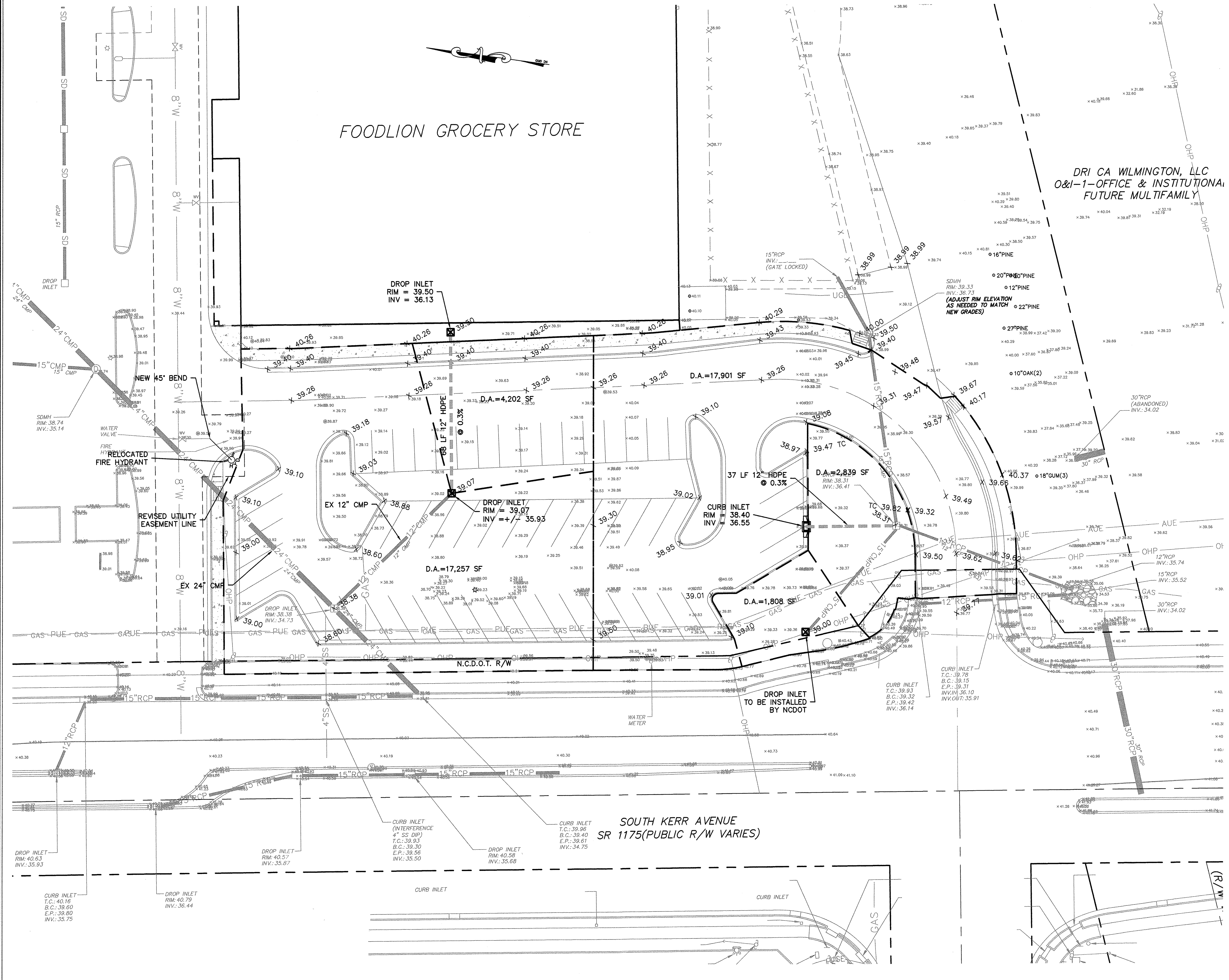
**GRADING, DRAINAGE AND UTILITY PLAN**

Sheet No. **C-4**



FOODLION GROCERY STORE

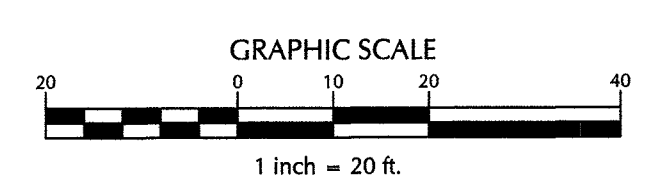
DRI CA WILMINGTON, LLC  
O&I-1-OFFICE & INSTITUTIONAL  
FUTURE MULTIFAMILY



**WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5/9/19 Permit # 2019025  
Signed: *Frank Christensen*

**Approved Construction Plan**

Name	Date
Planning <i>W. Waters</i>	5-9-19
Traffic <i>W. Waters</i>	5-9-19
Fire <i>R. B. ...</i>	5-10-19



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

**MARKET PLAZA CENTER ACCESS PLAN**  
WILMINGTON NORTH CAROLINA

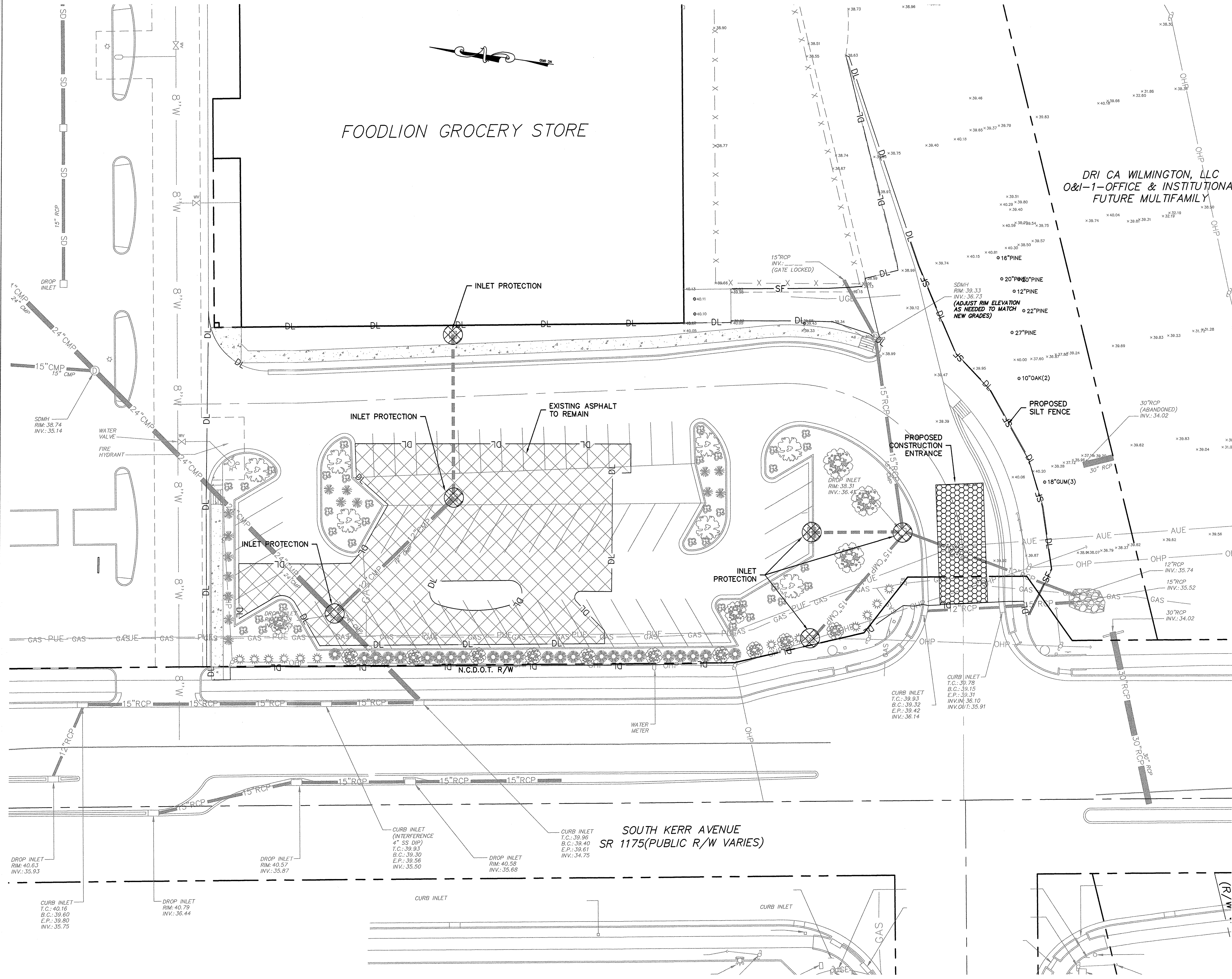
MARKET PLAZA CENTER, LLC  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

**DRAINAGE AREA PLAN**

Sheet No.  
**C-4.1**



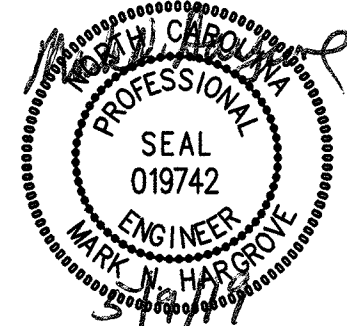
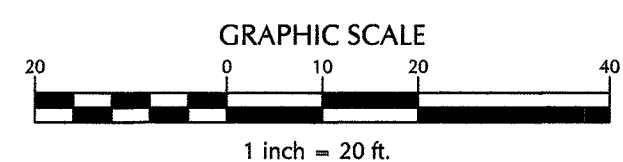


FOODLION GROCERY STORE

DRI CA WILMINGTON, LLC  
O&I-1-OFFICE & INSTITUTIONAL  
FUTURE MULTIFAMILY

**CITY OF WILMINGTON**  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5/9/19 Permit # 2019025  
Signed: Rich Christensen

**Approved Construction Plan**  
Name: [Signature] Date: 5-9-19  
Planning: [Signature] 5-9-19  
Traffic: [Signature] 5-9-19  
Fire: [Signature] 5-10-19



No.	Revision	Date	By

Designer	MNH	Scale	AS SHOWN
Drawn By	MNH	Date	JANUARY, 2019
Checked By	MNH	Job No.	

**MARKET PLAZA CENTER ACCESS PLAN**  
WILMINGTON NORTH CAROLINA

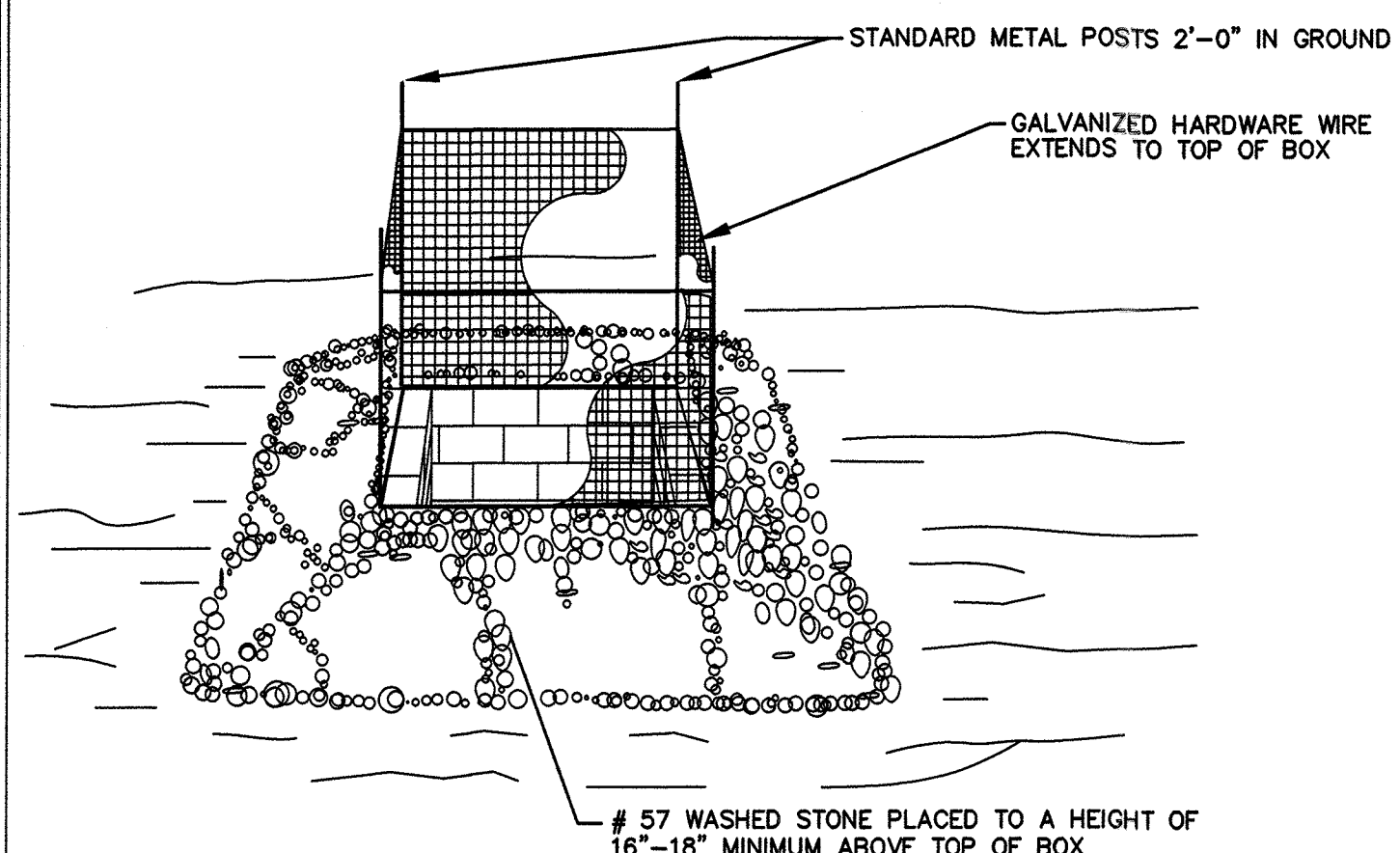
MARKET PLAZA CENTER, LLC  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

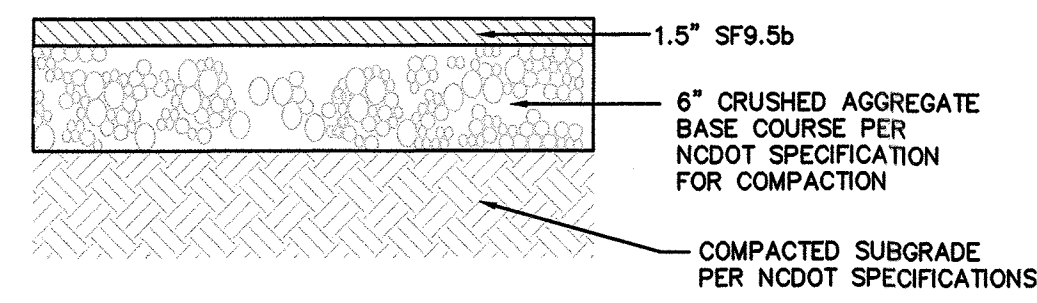
**SEDIMENT & EROSION CONTROL PLAN**

Sheet No. C-5



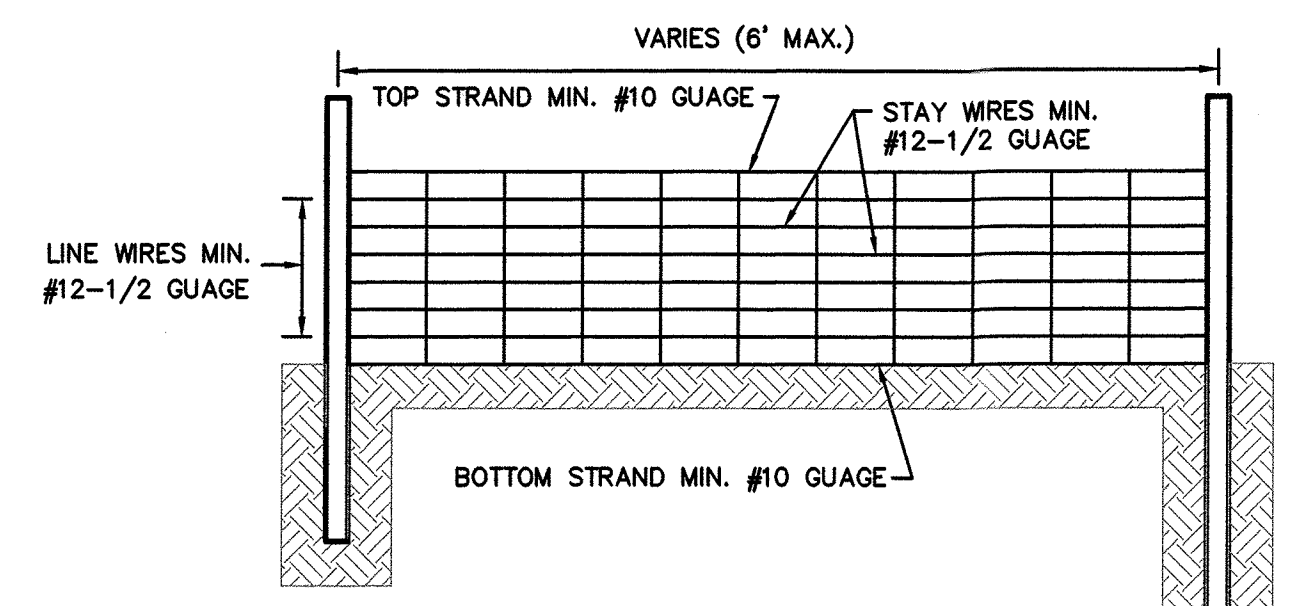


STANDARD CATCH BASIN/YARD INLET PROTECTION  
N.T.S.

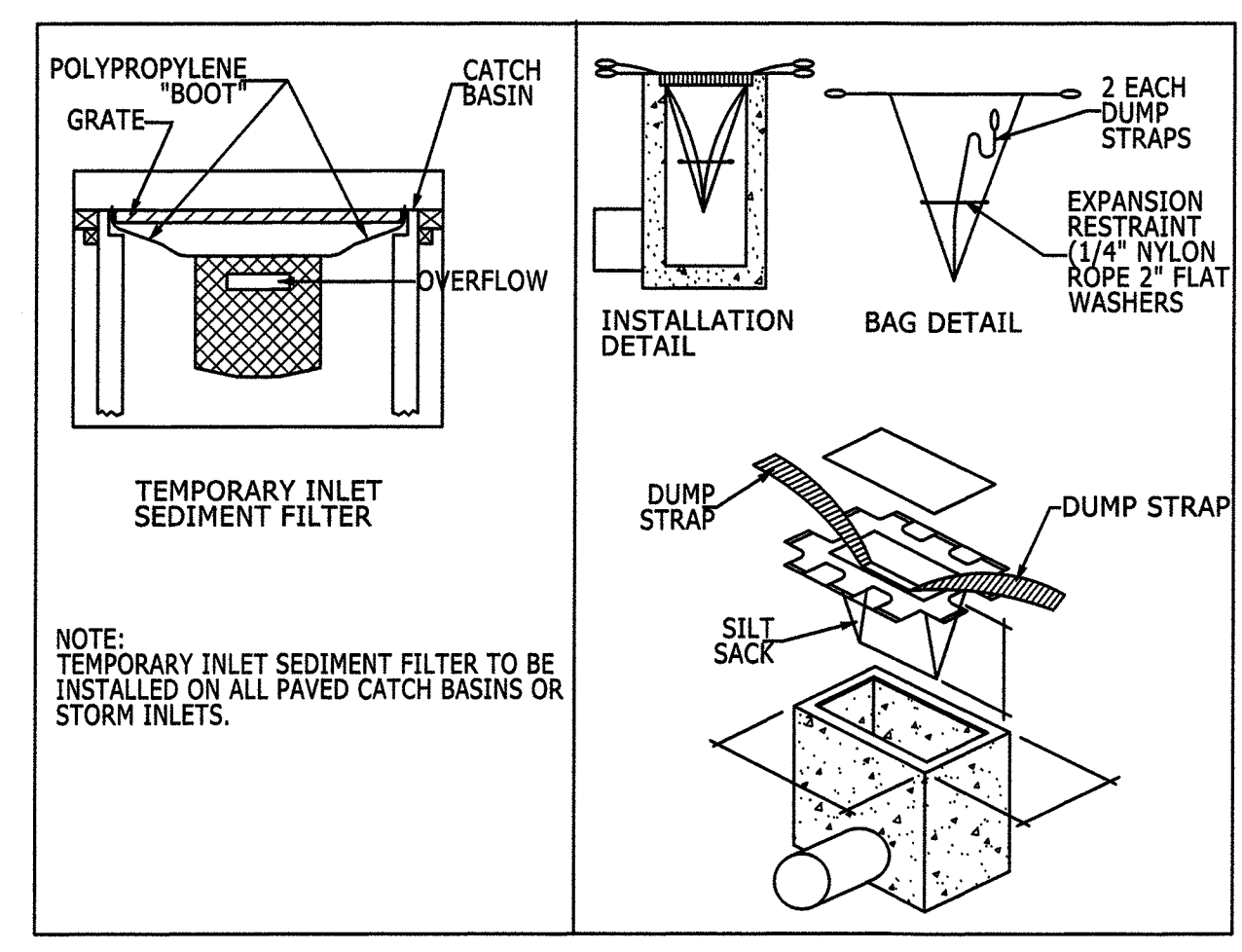
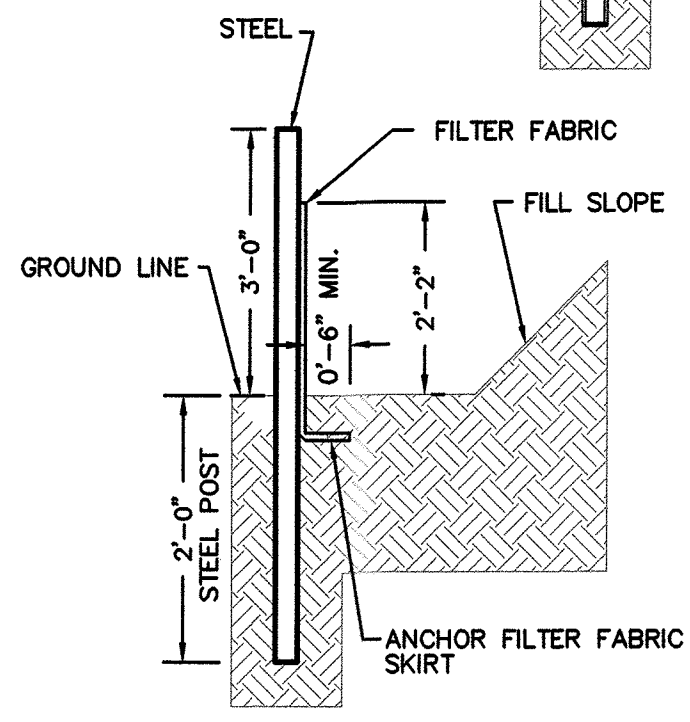


PAVEMENT DETAIL  
N.T.S.

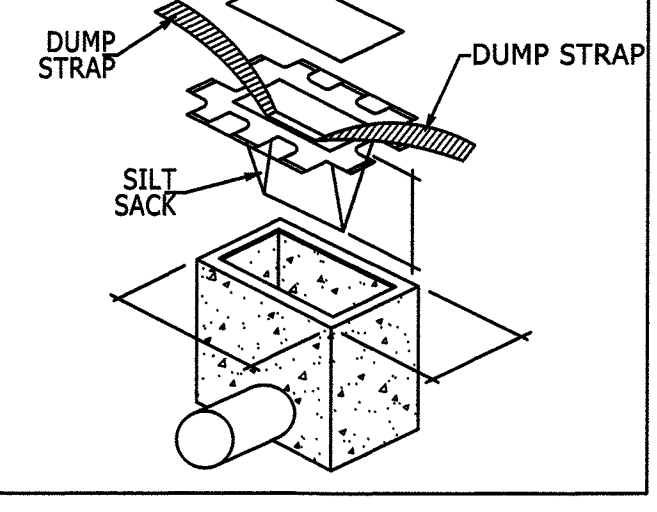
- NOTES:
1. WIRE SHALL BE A MINIMUM OF 30" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES W/12" STAY SPACING
  2. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE
  3. STEEL POST SHALL BE 5' 0" IN HEIGHT AND BE OF SELF FASTENER ANGLE STEEL TYPE



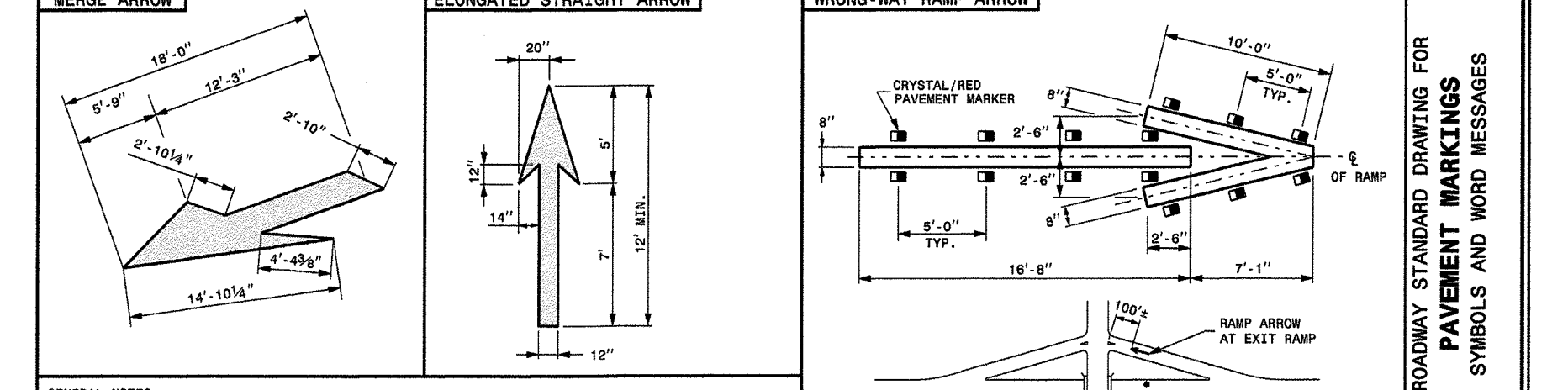
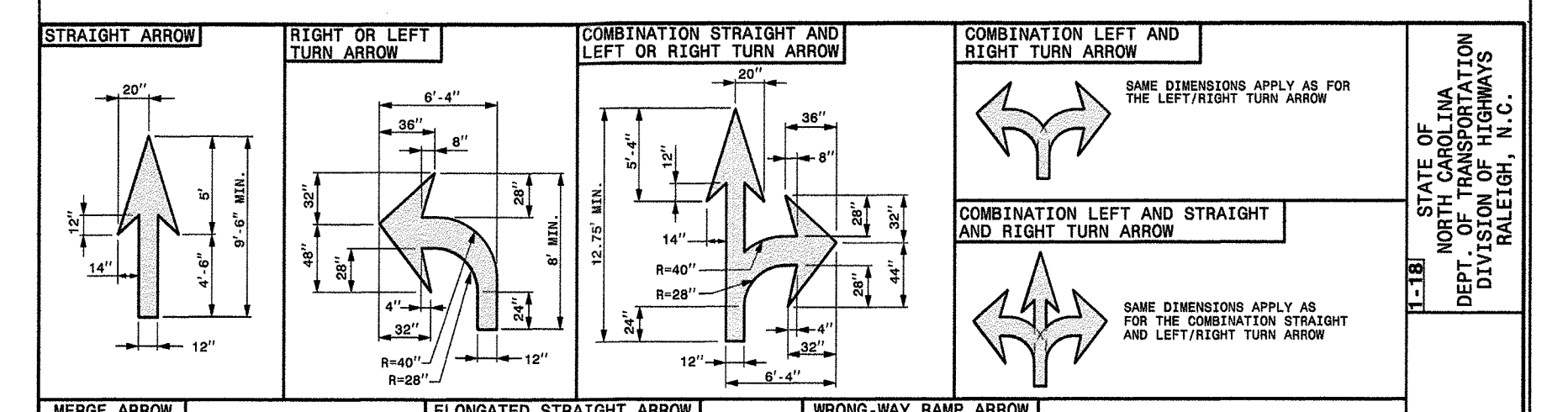
SILT FENCE  
N.T.S.



TEMPORARY INLET SEDIMENT FILTER

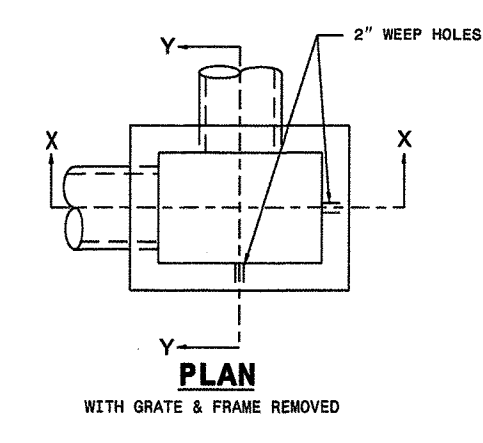


SILT SACK DETAIL  
NOT TO SCALE

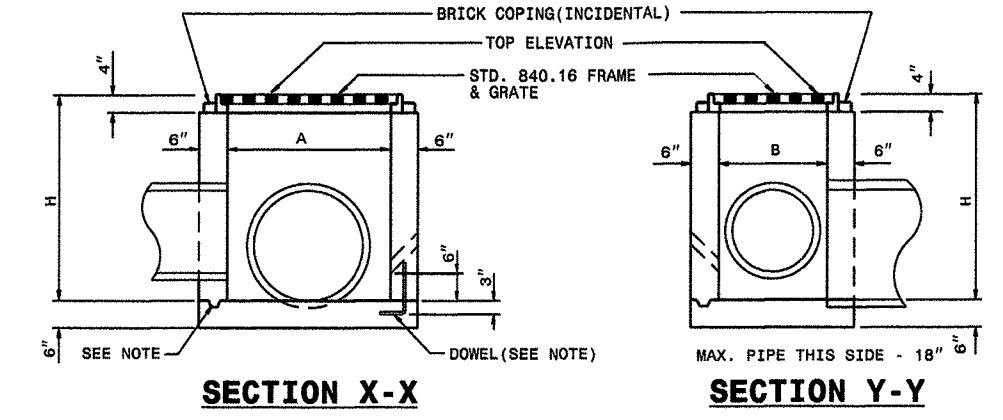


GENERAL NOTES:  
 1. USE THE COLOR WHITE FOR ALL PAVEMENT MARKING SYMBOLS.  
 2. DO NOT LOCATE PAVEMENT MARKING SYMBOLS AS TO ENCROACH INTO INTERSECTION AREAS.  
 3. DO NOT PLACE SYMBOLS ACROSS TRANSVERSE EXPANSION JOINTS ON PORTLAND CEMENT CONCRETE PAVEMENTS, UNLESS APPROVED BY THE ENGINEER.  
 4. CONFORM ALL SYMBOLS TO THE FURNISH STANDARD HIGHWAY SIGNING MANUAL WHICH INCLUDES PAVEMENT MARKINGS AND STANDARD ALPHABETS (REFER TO SHEETS 8 THRU 31) DIMENSIONS CAN VARY ABOVE MANUFACTURING, THEREFORE SLIGHT VARIANCES ARE ACCEPTABLE.  
 NOTE:  
 1. WHEN INSTALLING GOLD APPLIED PLASTIC ON CONCRETE, IT IS RECOMMENDED TO USE GOLD APPLIED PLASTIC WITH A BLACK CONTRASTING BORDER.

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N. C.  
 ROADWAY STANDARD DRAWING FOR PAVEMENT MARKINGS SYMBOLS AND WORD MESSAGES  
 SHEET 1 OF 1  
 1205.08



PLAN  
WITH GRATE & FRAME REMOVED



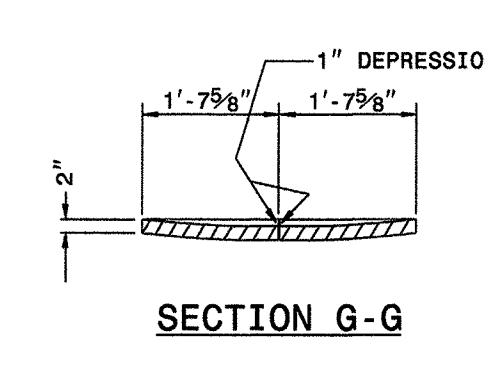
SECTION X-X

SECTION Y-Y

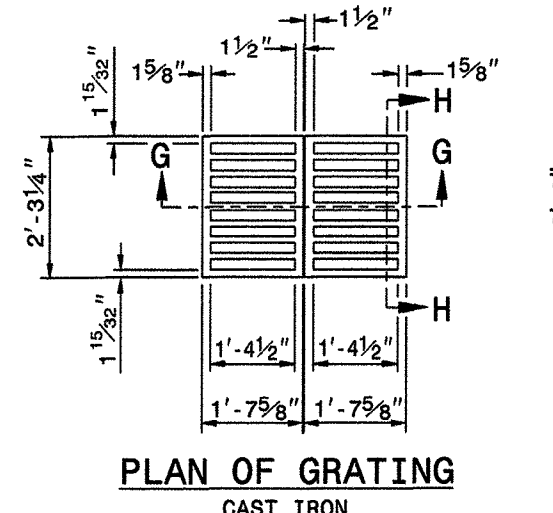
DIMENSIONS AND QUANTITIES FOR DROP INLET (BASED ON MIN. HEIGHT, H)		DIMENSIONS OF BOX & PIPE		CUBIC YARDS CONC. IN BOX		DEDUCTIONS FOR ONE PIPE	
PIPE SPAN	WIDTH	MIN. HEIGHT	CONC.	CONC.	C.N.	R.C.	R.C.
12"	3'-0"	2'-0"	0.222	0.222	0.055	0.015	0.020
18"	3'-0"	2'-3"	0.348	0.348	0.053	0.030	0.038
24"	3'-0"	3'-0"	0.514	0.514	0.053	0.045	0.048
30"	3'-0"	3'-6"	0.722	0.722	0.025	0.062	0.127

GENERAL NOTES:  
 USE CLASS "II" CONCRETE THROUGHOUT.  
 PROVIDE ALL DROP INLETS OVER 2'-4" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.  
 OPTIONAL CONSTRUCTION - MULTIPLE ROWS OF 2" KEYS OR #4 BAR DOBELS AT 18" CENTERS AS DIRECTED BY THE ENGINEER.  
 USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.  
 IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.50.  
 CONSTRUCT WITH PIPE ENDING MATCHING.  
 SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.  
 INSTALL 2" HORIZONTAL #4 DOBELS AS DIRECTED BY THE ENGINEER.  
 INSTALL STONE GRAINS OF A MINIMUM OF 1 CUBIC FOOT OF NO. 200 STONE IN A PROPOSED FRAME 840 OR WHEN AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.  
 CHAMFER ALL EXPOSED CORNERS 1".  
 DRAWING NOT TO SCALE.

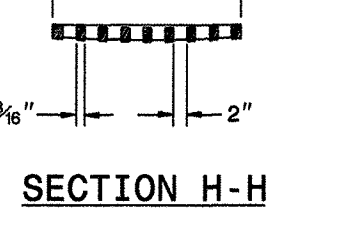
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N. C.  
 ROADWAY STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE  
 SHEET 1 OF 1  
 840.14



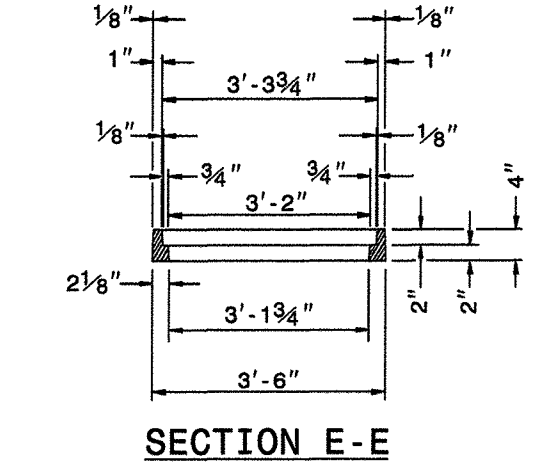
SECTION G-G



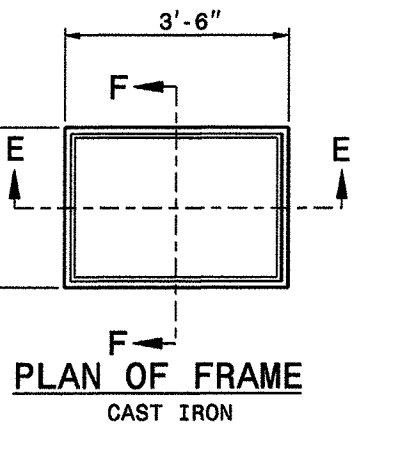
PLAN OF GRATING  
CAST IRON



SECTION H-H



SECTION E-E



PLAN OF FRAME  
CAST IRON

SECTION F-F

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
 RALEIGH, N. C.  
 ROADWAY STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG. S 840.14 AND 840.15  
 SHEET 1 OF 1  
 840.16

CITY OF WILMINGTON  
 NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED DRAINAGE PLAN  
 Date: 5/9/19 Permit # 2019025  
 Signed: Rich Christensen

Approved Construction Plan  
 Name Date  
 Planning Jeff Walter 5-9-19  
 Traffic [Signature] 5-9-19  
 Fire [Signature] 5-10-19



No.	Revision	Date	By	Designer	Scale
				MNH	AS SHOWN
				MNH	FEBRUARY, 2019
				MNH	

MARKET PLAZA CENTER ACCESS PLAN  
 WILMINGTON NORTH CAROLINA

MARKET PLAZA CENTER, LLC  
 3013-HALL WATERS DRIVE, SUITE A  
 WILMINGTON, NC 28405

PORT CITY CONSULTING  
 ENGINEERS, PLLC  
 6216 STONEBRIDGE ROAD  
 WILMINGTON, NC 28409  
 910-599-1744 LICENSE No. P-1032

MISCELLANEOUS DETAILS

Sheet No.  
 C-6.0



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

ENGLISH STANDARD DRAWING FOR  
GRAVEL CONSTRUCTION ENTRANCE

CLASS 'A' STONE  
8 IN. MIN. DEPTH  
2" - 3" COARSE  
AGGREGATE OR #4 STONE

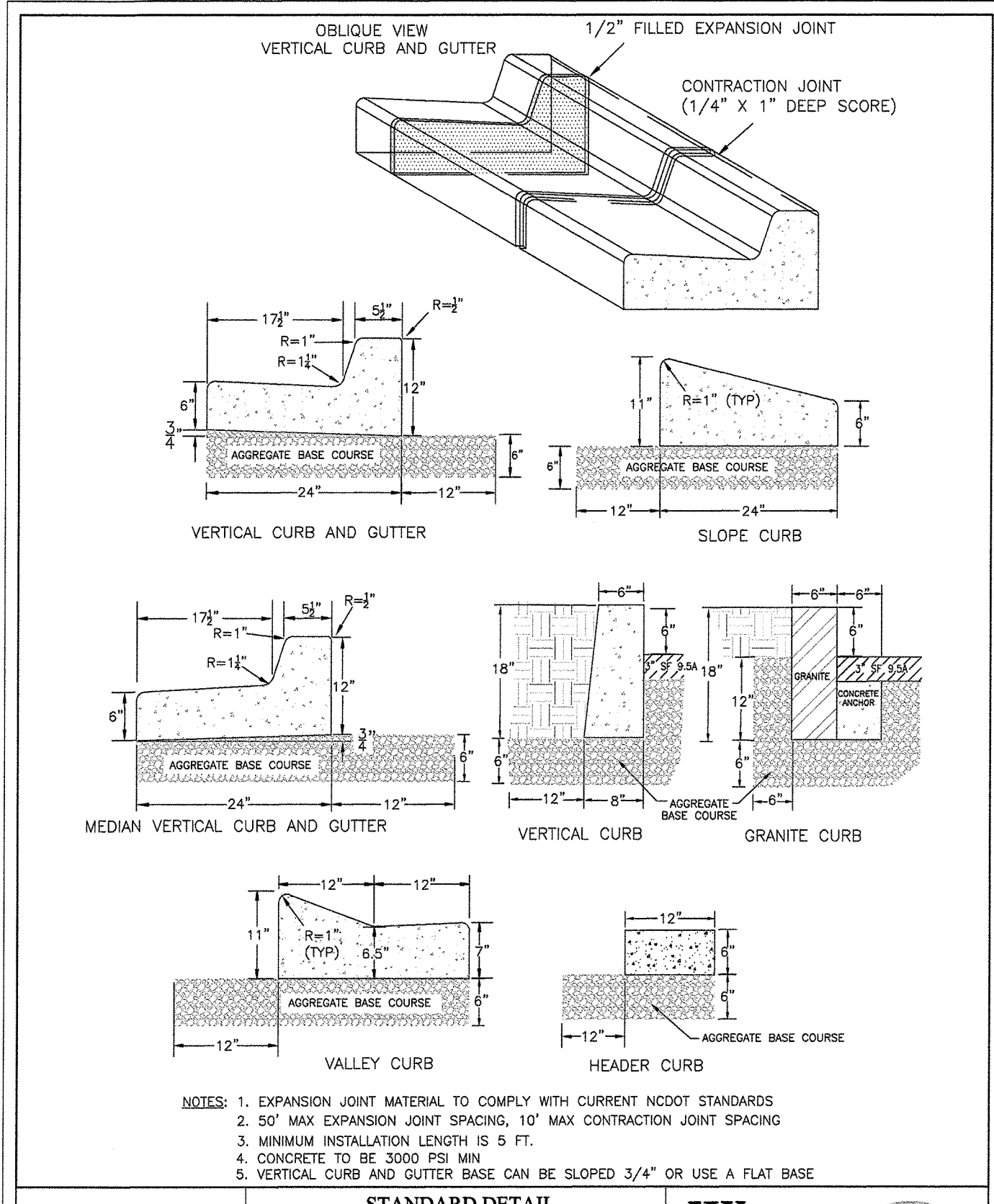
NOTE: PLACE FILTRATION GEOTEXTILE BENEATH STONE

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

ENGLISH STANDARD DRAWING FOR  
GRAVEL CONSTRUCTION ENTRANCE

SHEET 1 OF 1  
1607.01

- NOTES:
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
  2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
  3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
  4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
  5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICES AND TIMELY MAINTENANCE.
  6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
  7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.
  8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.



STANDARD DETAIL

DATE: AUGUST, 2011

DRAWN: PBJSR

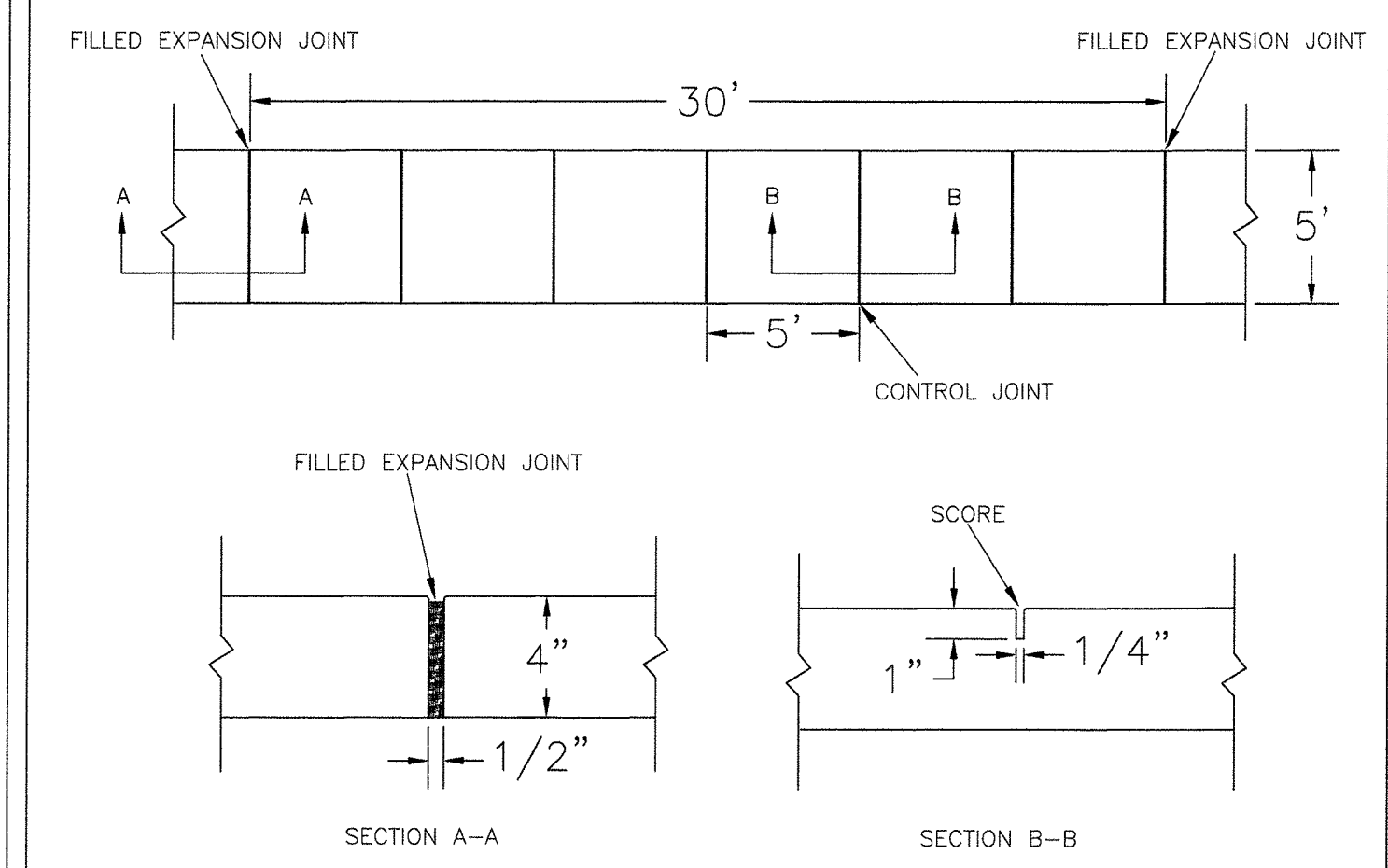
CHECKED: DEC

SCALE: NOT TO SCALE

CURBING

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

SD 3-11



- NOTES:
1. JOINT MATERIAL TO COMPLY WITH CURRENT NCDOT STANDARDS.
  2. SANITARY SEWER CLEAN-OUTS, WATER METERS, MANHOLES, AND VALVE LIDS TO BE LOCATED OUTSIDE SIDEWALK WHERE FEASIBLE.
  3. MINIMUM SIDEWALK WIDTH TO BE 6' MINIMUM IF PLACED AT BACK OF CURB.
  4. CONCRETE FOR ALL SIDEWALKS (EXCEPT ANY PORTION CONTAIN WITHIN A DRIVEWAY APRON) SHALL BE CLASS "A" - 3,000 PSI.
  5. MINIMUM REPLACEMENT FOR REPAIRS IS A 5' X 5' PANEL
  6. 4" STONE BASE MAY BE REQUIRED FOR POOR SOIL CONDITIONS
  7. MINIMUM DEPTH FOR TUNNELING BELOW SIDEWALK IS 12"
  8. MAX ADJACENT GROUND SLOPE WITHOUT RAILING IS 2:1
  9. MIN GRADE FOR PROPER DRAINAGE IS 1% IN AT LEAST 1 DIRECTION. MAX CROSS SLOPE IS 2%. MAX LONGITUDINAL SLOPE IS 8.3%, 10% IF LIMITED BY EXISTING CONDITIONS, OR NO GREATER THAN THE SLOPE OF THE EXISTING ADJACENT ROAD.

STANDARD DETAIL

DATE: OCTOBER, 2010

DRAWN: PBJSR

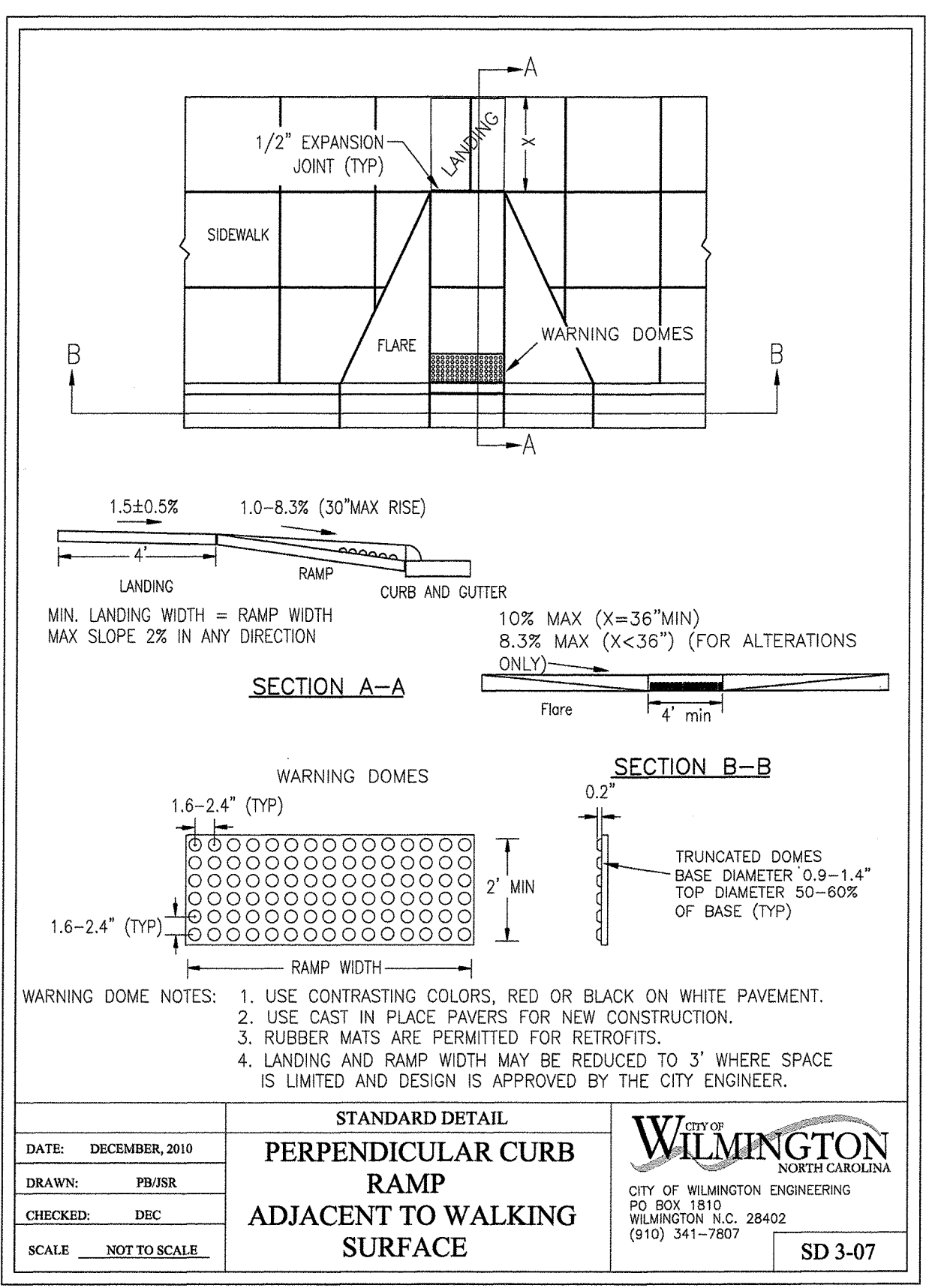
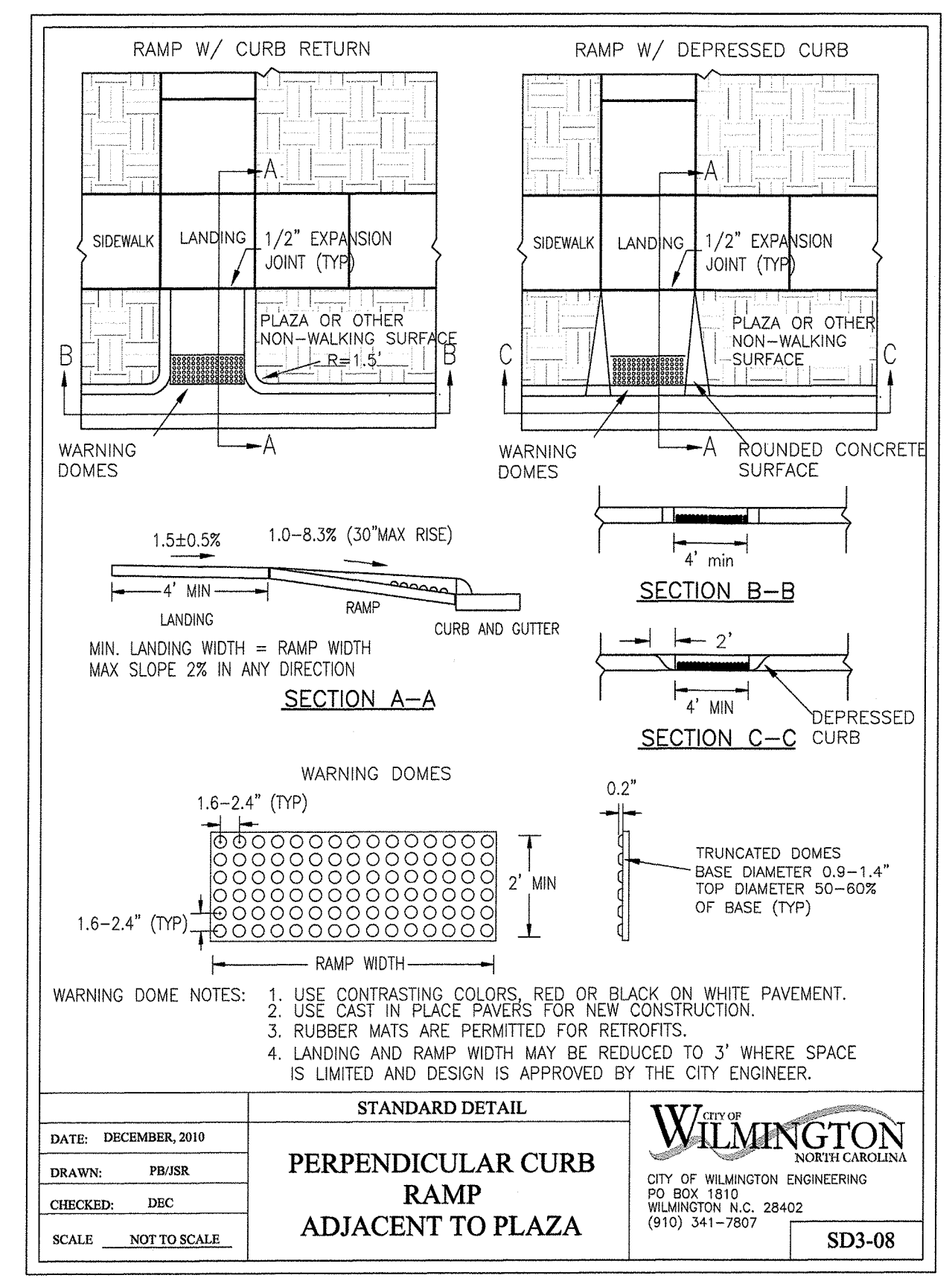
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SCALE: NOT TO SCALE

SIDEWALK

CITY OF WILMINGTON  
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SD 3-10



CITY OF WILMINGTON  
NORTH CAROLINA

Public Services • Engineering Division

APPROVED DRAINAGE PLAN

Date: 5/9/19 Permit # 2019025

Signed: *Josh Christian*

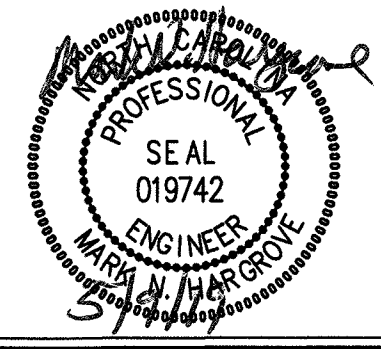
Approved Construction Plan

Name: *John Walter* Date: 5-9-19

Planning: *John Walter* 5-9-19

Traffic: *John Walter* 5-9-19

Fire: *John Walter* 5-10-19



No.	Revision	Date	By	Designer	Scale
				MNH	AS SHOWN
				MNH	FEBRUARY, 2019
				MNH	Job No.

MARKET PLAZA CENTER ACCESS PLAN

WILMINGTON NORTH CAROLINA

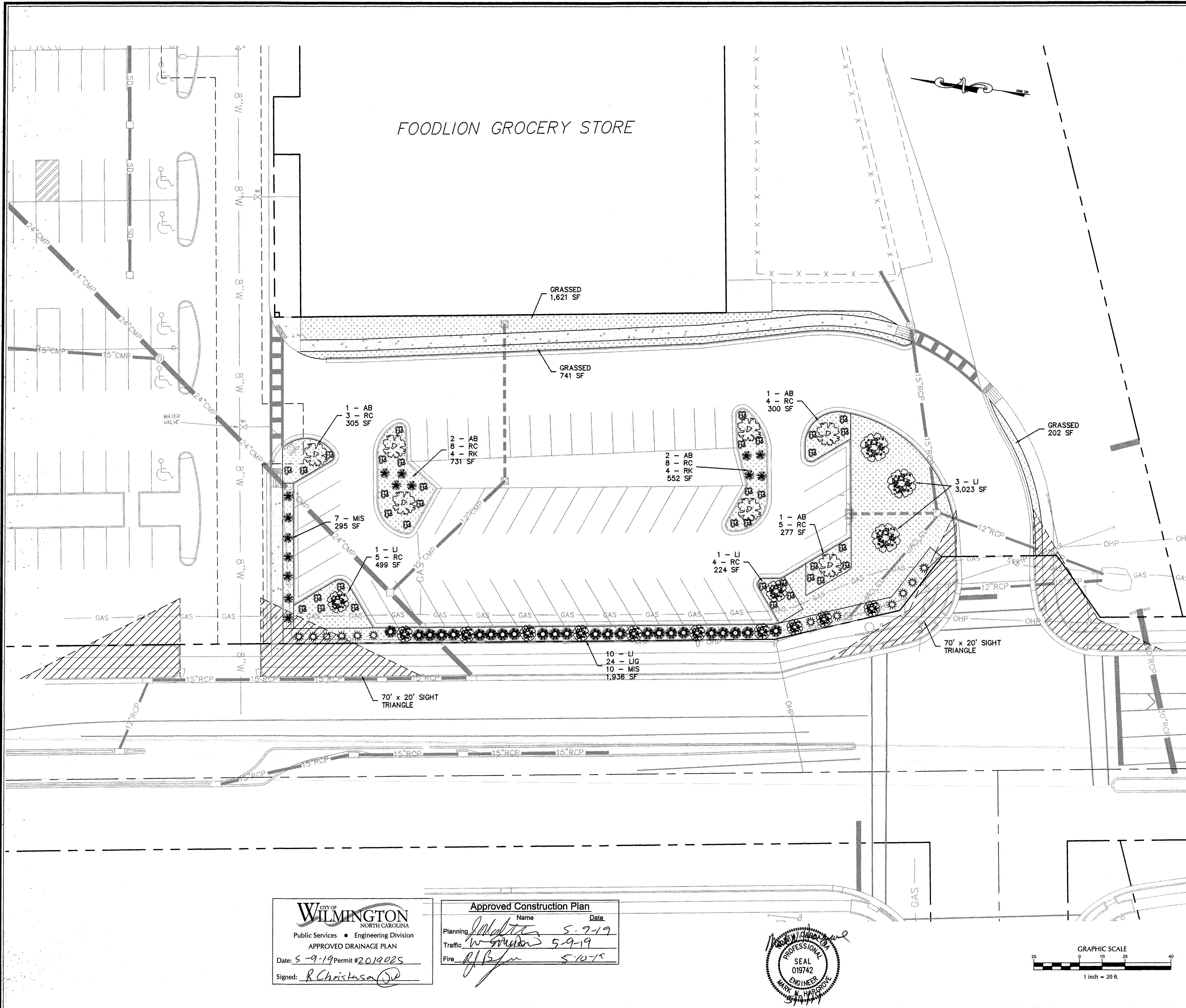
MARKET PLAZA CENTER, LLC  
3013-HALL WATERS DRIVE, SUITE A  
WILMINGTON, NC 28405

PORT CITY CONSULTING  
ENGINEERS, PLLC  
6216 STONEBRIDGE ROAD  
WILMINGTON, NC 28409  
910-599-1744 LICENSE No. P-1032

MISCELLANEOUS DETAILS

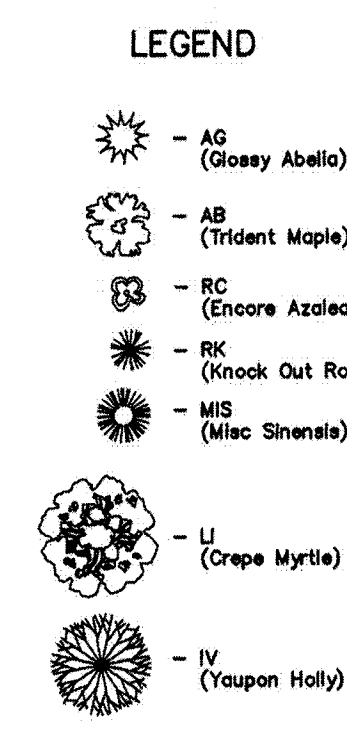
Sheet No.  
C-6.1





**LANDSCAPE CALCULATIONS:**

	REQ'D.	PROVD.
KERR AVENUE STREET YARD 165 L.F. OF FRONTAGE 301 x 6.5	1,956 S.F.	1,956 S.F.
● 3 TREE / 600 S.F. (UNDERSTORY TREES DUE OVERHEAD POWER LINE)	10	10
● 6 SHRUBS / 600 S.F. (MIN. 36" FOR LOW BUFFER)	20	34
PARKING AREA INTERIOR - 32,107 S.F. X 20% SHADING MIN. 75% LG. SHADE/CANOPY ● 707 S.F. MIN. 25% SM. SHADE/CANOPY ● 314 S.F.	6,421 S.F.	6,947 S.F.
FOUNDATION PLANTINGS - N/A		
BUFFERYARD - N/A		
OVERALL SITE - 1.0 AC. ± DEVELOPMENT AREA X 15 TREES/AC.	15	21



**PLANT LIST**

KEY	NO.	BOTANICAL NAME	COMMON NAME	MIN. SIZE	PLANTING REMARKS
AB	7	ACER BUERGERIANICA	TRIDENT MAPLE	2"-2.5" CAL.	SPACING AS SHOWN
LI	15	LAGERSTRONEMIA INDICA 'NATCHEZ'	CREPE MYRTLE	8-10' HGT.	SPACING AS SHOWN
MIS	17	MISCANTHUS SINENSIS 'STRICTUS'	MISC SINENSIS	15-18" 3 GAL.	SPACING AS SHOWN
RC	37	AUTUMN AMETHYST 'RHODODENDRON CONLEE'	ENCORE AZALEA	12-15"	SPACING AS SHOWN
RK	8	ROSA RADRAZZ 'KNOCK OUT ROSE'	KNOCK OUT ROSE	12-15"	SPACING AS SHOWN
LIG	24	LIGUSTRUM JAPONICUM RECURVIFOLIUM	RECURVE LIGUSTRUM	38" HGT.	LOW BUFFER SHRUB

O.C. - "ON CENTER" CAL. - "CALIPER AT 6" ABOVE GRADE" GAL. - "GALLON CONTAINER"

- LANDSCAPE NOTES:**
- ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET FORTH IN THE 'AMERICAN STANDARD FOR NURSERY STOCK' BY THE AMERICAN ASSOCIATION OF NURSERMEN.
  - ALL PLANTING BEDS SHALL RECEIVE A MINIMUM OF 4" OF PINE BARK MULCH.
  - ALL AREAS DISTURBED AND NOT SPECIFIED AS MULCHED PLANTING BEDS WILL BE GRASSED WITH COMMON BERMUDA GRASS. LAWN AREAS MAY BE SEEDED OR SOEDED.
  - CONTRACTOR SHALL USE WHATEVER METHOD OF TREE STAKING HE DEEMS FIT. HOWEVER, HE WILL BE HELD LIABLE FOR ANY DAMAGES CAUSED TO TREES BY IMPROPER STAKING METHODS, OR ABSENCE OF STAKING, AND IS RESPONSIBLE FOR UPRIGHTING AND REPLANTING TREES WHICH ARE BLOWN OVER.
  - CONTRACTOR SHALL WARRANTY ALL TREES AND STRUBS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE FOR THE WORK OF THE LANDSCAPE PLAN.
  - IF DISCREPANCIES OR AVAILABILITIES ARE FOUND IN THE PLANT SPECIES AND/OR SIZES REQUIRED, CONTRACTOR SHALL NOTIFY THE OWNER. SUBSTITUTIONS MAY BE MADE, WITH AUTHORIZATION, AS LONG AS THE PLANTS FOLLOW THE INTENDED FORM & FUNCTION OF THE REQUIREMENT.

- CITY REQUIREMENTS:**
- ALL PLANTINGS SHALL BE CURBED OR OTHERWISE PHYSICALLY PROTECTED FROM VEHICULAR TRAFFIC.
  - TREE PRESERVATION/REMOVAL PERMIT IS REQUIRED PRIOR TO CLEARING AND LAND DISTURBING.
  - PRIOR TO 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.
  - PROTECTIVE FENCING IS TO BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT. LAND CLEARING AND CONSTRUCTION CONTRACTORS SHALL RECEIVE ADEQUATE INSTRUCTION ON TREE PROTECTION REQUIREMENTS AND METHODS.
  - THE OWNER IS RESPONSIBLE FOR MAINTAINING ALL REQUIRED PLANT MATERIAL AND PLANTING AREAS IN GOOD HEALTH AND APPEARANCE. AND DEAD, UNHEALTHY OR MISSING PLANTS MUST BE REPLACED WITHIN SIXTY (60) DAYS WITH VEGETATION WHICH CONFORMS TO THE INITIAL PLANTING RATES AND STANDARDS.

**APPROVED CONSTRUCTION PLAN**

Name	Date
Planning	5-9-19
Traffic	5-9-19
Fire	5-10-19

City of Wilmington, North Carolina  
Public Services • Engineering Division  
APPROVED DRAINAGE PLAN  
Date: 5-9-19 Permit # 2019025  
Signed: R. Christusa

