

PRELIMINARY SITE PLAN

FOR

LIDL US OPERATIONS, LLC

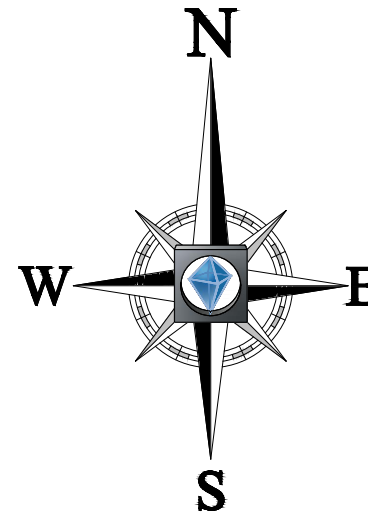
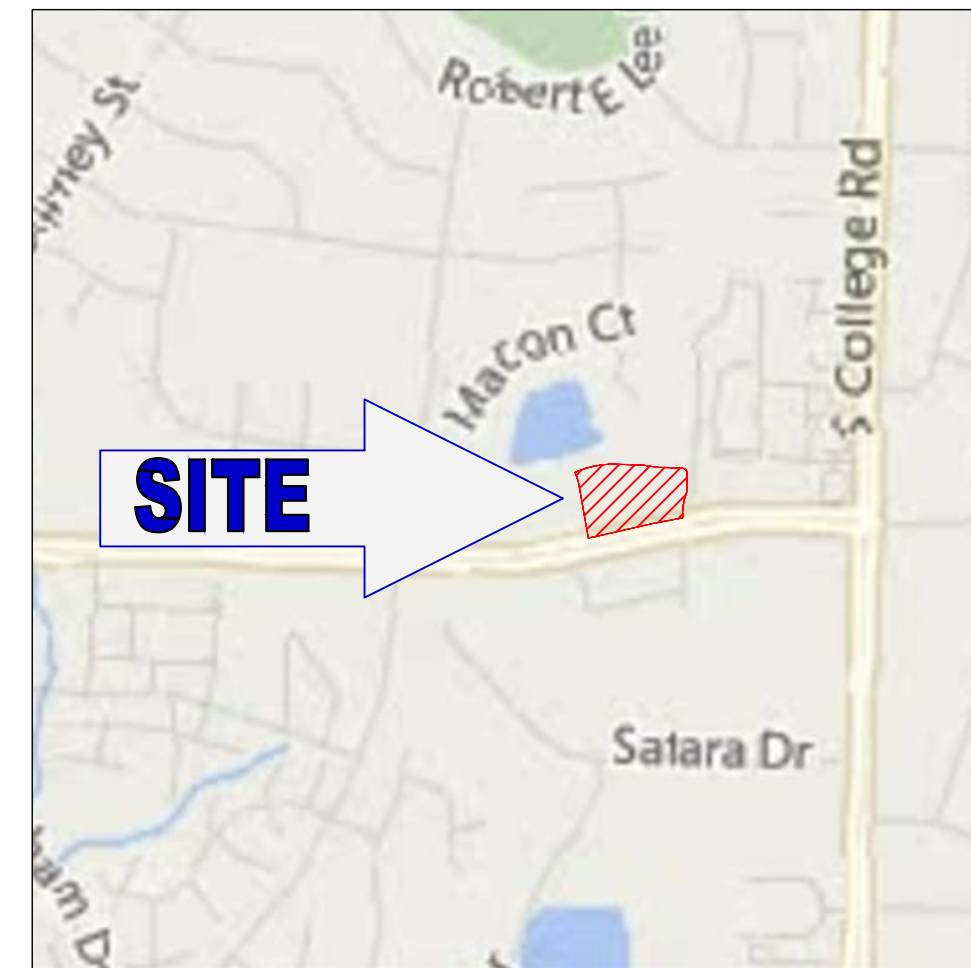
PROPOSED GROCERY STORE

STORE #1181

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

TAX PARCEL ID: 3135-37-9059.000 / 3135-56-8767.00 /
 R06600-001-005-012
 DB 5100 PG 288

NEW HANOVER COUNTY, NORTH CAROLINA



SCALE: 1" = 2000'
 SOURCE: GOOGLE MAPS

CONTACT INFORMATION

REFERENCES

SURVEY:
 "AL TANKERS' LAND TITLE SURVEY FOR LIDL US OPERATIONS, LLC"
 PREPARED BY ALLIED ASSOCIATES, P.A.
 JOB NO. PA160303
 DATED: 3/16/16

GEOTECHNICAL INVESTIGATION REPORT:
 "REPORT OF SUBSURFACE EXPLORATION - LIDL WILMINGTON, NC"
 PREPARED BY ECS CAROLINAS, LLP
 ECS PROJECT NO. 22-23971
 DATED: 3/22/16

ENVIRONMENTAL SITE ASSESSMENT:
 "PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT - LIDL WILMINGTON, NC"
 PREPARED BY ECS CAROLINAS, LLP
 ECS PROJECT NO. 49-1612
 DATED: 3/25/16

GOVERNING AGENCIES

CITY OF WILMINGTON PLANNING, DEVELOPMENT & TRANSPORTATION
 306 CHESTNUT STREET
 WILMINGTON, NC 28402
 CONTACT: JOHN FULLERTON
 PHONE: (910) 341-3247
 EMAIL: JOHN.FULLERTON@WILMINGTONNC.GOV

CITY OF WILMINGTON
 STORMWATER SERVICES
 PO BOX 1810
 209 COLEMAN DRIVE
 WILMINGTON, NC 28412


NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT)
 DISTRICT 3
 300 DIVISION DRIVE
 WILMINGTON, NC 28401
 PHONE: (910) 251-2855

NORTH CAROLINA OF ENVIRONMENT AND NATURAL RESOURCES (NCDENR)
 127 CARDINAL DRIVE EXTENSION
 WILMINGTON, NC 28405
 PHONE: (901) 796-7215

UTILITY SERVICE CONTACTS

SERVICE	UTILITY / GOVERNING AGENCY
WATER/SEWER	CAPE FEAR PUBLIC UTILITY AUTHORITY 235 GOVERNMENT CENTER DRIVE WILMINGTON, NC 28403 PHONE: (910) 332-6550 CAREL VANDERMEYDEN - DIRECTOR OF ENGINEERING
NATURAL GAS	PIEDMONT NATURAL GAS 1321 S. 3075 ST WILMINGTON, NC 28401 PHONE: (910) 796-7185
ELECTRIC	DUKE ENERGY 8645 TRADE ST. NE LELAND, NC 28451 PHONE: (800) 452-2777

DEVELOPER
 LIDL US OPERATIONS, LLC
 PROJECT #1181
 1500 SUNDAY DRIVE, SUITE 101
 RALEIGH, NC 27607
 CONTACT: RYAN WEHMANN
 TELEPHONE : (703) 346-4654

PREPARED BY

BOHLER
 ENGINEERING NC, PLLC
 NCBELS P-1132

4011 WESTCHASE BLVD., SUITE 290
 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
NC@BohlerEng.com

CONTACT: WYATT BONE, P.E. - WBONE@BOHLERENG.COM

SURVEYOR
 ALLIED ASSOCIATES, P.A.
 4720 KESTER MILL ROAD
 WINSTON-SALEM, NC
 PHONE : (336) 765-2377
 FAX : (760) 760-8886
 EMAIL : DALLEY@ALLIED-ENGSURV.COM

ALERT TO CONTRACTOR:
 1. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

Sheet Title	Sheet Number
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GRADING PLAN	C-4.0
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LIGHTING PLAN	C-6.0
LANDSCAPE PLAN	C-7.0
EROSION AND SEDIMENT CONTROL PHASE I	C-8.0
EROSION AND SEDIMENT CONTROL PHASE II	C-9.0
CONSTRUCTION DETAILS	D-1.0
CONSTRUCTION DETAILS	D-1.1

ISSUED FOR CONSTRUCTION

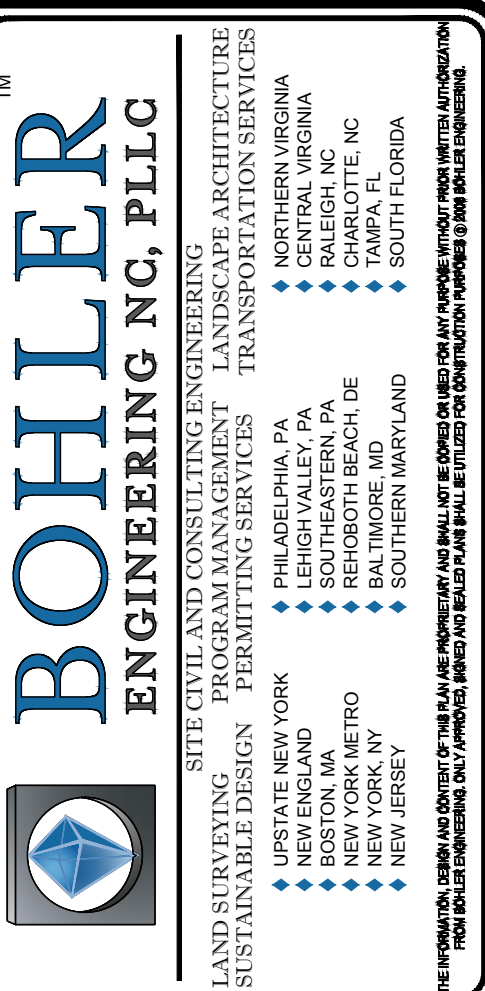
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THIS DOCUMENT IS NOT ISSUED BY BOHLER ENGINEERING FOR CONSTRUCTION WITHOUT (3) SIGNATURES

PROJECT # _____
 REVISION DATE: _____



BOHLER ENGINEERING NC, PLLC
 NCBELS P-1132

STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 WYATT L. BONE
 040241
 11-29-16

LAND SURVEYING • SITE PLANNING • LANDSCAPE ARCHITECTURE
 SUSTAINABLE DESIGN • PROGRAM MANAGER • TRANSPORTATION SERVICES

PHILADELPHIA, PA • NORTHERN VIRGINIA
 BALTIMORE, MD • CHARLOTTE, NC
 NEW YORK, NY • RALEIGH, NC
 NEW YORK, NY • SOUTH EASTERN, PA
 NEW YORK, NY • REHOBOTH BEACH, DE
 NEW JERSEY • SOUTHERN MARYLAND
 SOUTH FLORIDA

REV	DATE	COMMENT	BY



811
 KNOW WHAT'S BELOW
 ALWAYS CALL 811
 BEFORE YOU DIG
 It's fast. It's free. It's the law.

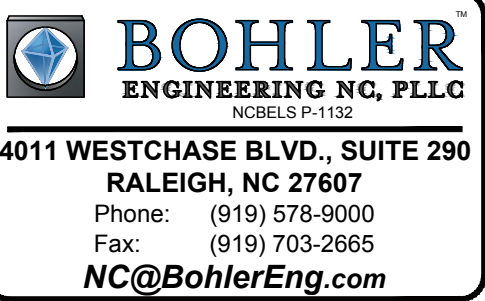
NOT APPROVED FOR CONSTRUCTION

PROJECT No.: NCR151031
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 CHECKED BY: 4/25/16
 DATE: 1" = 40'
 SCALE: S80
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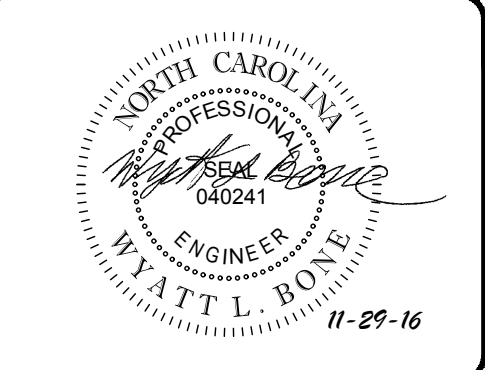
PROPOSED GROCERY

FOR
LIDL US OPERATIONS, LLC

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 4301 S 17TH STREET
 WILMINGTON, NC 28412



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 NCBELS P-1132
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 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
NC@BohlerEng.com



SHEET TITLE:
COVER SHEET

SHEET NUMBER:
C-1.0

STANDARD DRAWING LEGEND		
FOR ENTIRE PLAN SET (NOT TO SCALE)		
EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
---	ONSITE PROPERTY LINE / R.O.W. LINE	---
---	NEIGHBORING PROPERTY LINE / INTERIOR PARCEL LINE	---
---	EASEMENT LINE	---
---	SETBACK LINE	---
---	CONCRETE CURB & GUTTER	
---	UTILITY POLE WITH LIGHT	---
---	POLE LIGHT	---
---	TRAFFIC LIGHT	---
---	UTILITY POLE	---
---	TYPICAL LIGHT	---
---	ACORN LIGHT	---
---	TYPICAL SIGN	---
---	PARKING COUNTS	---
---	CONTOUR LINE	---
---	SPOT ELEVATIONS	---
---	SANITARY LABEL	---
---	STORM LABEL	---
---	SANITARY SEWER LATERAL	---
---	UNDERGROUND WATER LINE	---
---	UNDERGROUND ELECTRIC LINE	---
---	UNDERGROUND GAS LINE	---
---	OVER-HEAD WIRE	---
---	UNDERGROUND TELEPHONE LINE	---
---	UNDERGROUND CABLE LINE	---
---	STORM SEWER	---
---	SANITARY SEWER MAIN	---
---	HYDRANT	---
---	SANITARY MANHOLE	---
---	STORM MANHOLE	---
---	WATER METER	---
---	WATER VALVE	---
---	GAS VALVE	---
---	GAS METER	---
---	TYPICAL END SECTION	---
---	HEADWALL OR ENDWALL	---
---	GRATE INLET	---
---	CURB INLET	---
---	CLEAN OUT	---
---	ELECTRIC MANHOLE	---
---	TELEPHONE MANHOLE	---
---	ELECTRIC BOX	---
---	ELECTRIC PEDESTAL	---
---	MONITORING WELL	---
---	TEST PIT	---
---	BENCHMARK	---
---	BORING	---

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NOTES AND SPECIFICATIONS CONTAINED HEREIN. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SUBCONTRACTORS FULLY AND COMPLETELY CONFORM TO AND COMPLY WITH THESE REQUIREMENTS.
- THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
 - SURVEY - "ALTANSIPS LAND TITLE SURVEY FOR LIDL US OPERATIONS, LLC", ALLIED ASSOCIATES, P.A. DATED 03/16/16. JOB NO. PA160363.
 - GEOTECHNICAL REPORT - "REPORT OF SUBSURFACE EXPLORATION - LIDL WILMINGTON, NC", ECS CAROLINAS, LLP. PROJECT NO. 22-23971 DATED 03/22/16.
 - ENVIRONMENTAL SITE ASSESSMENT - "PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT - LIDL WILMINGTON, NC", ECS CAROLINAS, LLP. DATED 03/25/16. PROJECT NO. 49-1612
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY THAT HE/SHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE. THIS IS CONTRACTOR'S RESPONSIBILITY.
 - ALL ACCESSIBLE (AKA ADA) PARKING SPACES MUST BE CONSTRUCTED TO MEET, AT A MINIMUM, THE MORE STRINGENT OF THE REQUIREMENTS OF THE "AMERICANS WITH DISABILITIES ACT" (ADA) CODE (42 U.S.C. § 12101 et seq. AND 42 U.S.C. § 4151 et seq.) OR THE REQUIREMENTS OF THE JURISDICTION WHERE THE PROJECT IS TO BE CONSTRUCTED, AND ANY AND ALL AMENDMENTS TO BOTH WHICH ARE IN EFFECT WHEN THESE PLANS ARE COMPLETED.
 - PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED THE COMMENTS TO ALL PLANS AND OTHER DOCUMENTS REVIEWED AND APPROVED BY THE PERMITTING AUTHORITY AND CONFIRMED THAT ALL NECESSARY OR REQUIRED PERMITS HAVE BEEN OBTAINED. CONTRACTOR MUST HAVE COPIES OF ALL PERMITS AND APPROVALS ON SITE AT ALL TIMES.
 - THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF ANY AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND CONDITIONS OF APPROVAL, AND ALL APPLICABLE REQUIREMENTS, RULES, REGULATIONS, STATUTORY REQUIREMENTS, CODES, LAWS AND STANDARDS OF ALL GOVERNMENTAL ENTITIES WITH JURISDICTION OVER THIS PROJECT.
 - THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SET FORTH HEREIN ARE A PART OF THE REQUIRED CONSTRUCTION DOCUMENTS AND, IN CASE OF CONFLICT, DISCREPANCY OR AMBIGUITY, THE MORE STRINGENT REQUIREMENTS AND/OR RECOMMENDATIONS CONTAINED IN THE PLANS AND THE GEOTECHNICAL REPORT AND RECOMMENDATIONS SHALL TAKE PRECEDENCE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER, IN WRITING, OF ANY SUCH CONFLICT, DISCREPANCY OR AMBIGUITY BETWEEN THE GEOTECHNICAL REPORTS AND PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
 - THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING, NC, PLLC BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, NC, PLLC, IN WRITING, IMMEDIATELY IF ACTUAL SITE CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLAN, OR IF THE PROPOSED WORK CONFLICTS WITH ANY OTHER SITE FEATURES.
 - ALL DIMENSIONS SHOWN ON THE PLANS MUST BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, IF ANY CONFLICTS, DISCREPANCIES, OR AMBIGUITIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR WORK WHICH HAS TO BE REDONE OR REPAIRED DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS PRIOR TO CONTRACTOR GIVING ENGINEER WRITTEN NOTIFICATION OF SAME AND ENGINEER, THEREAFTER, PROVIDING CONTRACTOR WITH WRITTEN AUTHORIZATION TO PROCEED WITH SUCH ADDITIONAL WORK.
 - CONTRACTOR MUST REFER TO THE ARCHITECTURAL/BUILDING PLANS "OF RECORD" FOR EXACT LOCATIONS AND DIMENSIONS OF ENTRY/EXIT POINTS, ELEVATIONS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY LOCATIONS.
 - PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST COORDINATE THE BUILDING LAYOUT BY CAREFUL REVIEW OF THE ENTIRE SITE PLAN AND THE LATEST ARCHITECTURAL PLANS (INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND SANITARY) AND THE ARCHITECTURAL/BUILDING PLANS. CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
 - DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOIL WATER) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.
 - THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING WHEN SHORING IS REQUIRED AND FOR INSTALLING ALL SHORING REQUIRED DURING EXCAVATION (TO BE PERFORMED IN ACCORDANCE WITH CURRENT OSHA STANDARDS) AND ANY ADDITIONAL PRECAUTIONS TO BE TAKEN TO ASSURE THE STABILITY OF ADJACENT, NEARBY AND CONTIGUOUS STRUCTURES AND PROPERTIES.
 - THE CONTRACTOR IS TO EXERCISE EXTREME CARE WHEN PERFORMING ANY WORK ACTIVITIES ADJACENT TO PAVEMENT, STRUCTURES, ETC. WHICH ARE TO REMAIN EITHER FOR AN INITIAL PHASE OF CONSTRUCTION OR AS PART OF THE FINAL CONDITION. CONTRACTOR IS RESPONSIBLE FOR TAKING ALL APPROPRIATE MEASURES REQUIRED TO ENSURE THE STRUCTURAL STABILITY OF SIDEWALKS AND PAVEMENT, UTILITIES, BUILDINGS, AND INFRASTRUCTURE WHICH ARE TO REMAIN, AND TO PROVIDE A SAFE WORK AREA FOR THIRD PARTIES, PEDESTRIANS AND ANYONE INVOLVED WITH THE PROJECT.
 - THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DONE TO ANY NEW OR EXISTING CONSTRUCTION OR PROPERTY DURING THE COURSE OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. AND SHALL BEAR ALL COSTS ASSOCIATED WITH SAME. THE REPAIR OF ANY SUCH NEW OR EXISTING CONSTRUCTION OR PROPERTY MUST RESTORE SUCH CONSTRUCTION OR PROPERTY TO A CONDITION EQUIVALENT TO OR BETTER THAN THE CONDITIONS PRIOR TO COMMENCEMENT OF THE CONSTRUCTION, AND IN CONFORMANCE WITH APPLICABLE CODES, LAWS, RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STATUTES. CONTRACTOR MUST BEAR ALL COSTS ASSOCIATED WITH SAME. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND TO NOTIFY THE OWNER AND THE CONSTRUCTION MANAGER PRIOR TO THE START OF CONSTRUCTION.
 - ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
 - THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS, MEANS, TECHNIQUES OR PROCEDURES, GENERALLY OR FOR THE CONSTRUCTION MEAN, METHODS, TECHNIQUES OR PROCEDURES FOR COMPLETION OF THE WORK DEPICTED BOTH ON THESE PLANS, AND FOR ANY CONFLICTS/SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE METHODS/MEANS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY. THE ENGINEER OF RECORD HAS NOT BEEN RETAINED TO PERFORM OR BE RESPONSIBLE FOR JOB SITE SAFETY. SAME BEING WHOLLY OUTSIDE OF ENGINEER'S SERVICES AS RELATED TO THE PROJECT. THE ENGINEER OF RECORD IS NOT RESPONSIBLE TO IDENTIFY OR REPORT ANY JOB SITE SAFETY ISSUES, AT ANY TIME.
 - ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKER'S COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CGL). ALL CONTRACTORS MUST HAVE THEIR CGL POLICIES ENDORSED TO NAME BOHLER ENGINEERING, NC, PLLC, AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS AS ADDITIONAL NAMED INSURED AND TO PROVIDE CONTRACTOR LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNIFY CONTRACTOR AND SUBCONTRACTORS AND SUBCONSULTANTS A CONSTRUCTION PROJECT SITE, SHALL PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBCONSULTANTS FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR OR ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING, NC, PLLC WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
 - BOHLER ENGINEERING, NC, PLLC WILL REVIEW OR TAKE OTHER APPROPRIATE ACTION ON THE CONTRACTOR SUBMITTALS, SUCH AS SHOP DRAWINGS, PRODUCT DATA, SAMPLES, AND OTHER DATA, WHICH THE CONTRACTOR IS REQUIRED TO SUBMIT, BUT ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONTRACT DOCUMENTS. CONSTRUCTION OF ANY CONSTRUCTION PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, OVERSEEING, SUPERINTENDING AND COORDINATING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND COMPLIANCE ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING, NC, PLLC AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS, PROCEDURES, OR REQUIREMENTS. THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR JOB SITE SAFETY. BOHLER ENGINEERING, NC, PLLC SHALL NOT BE INDEMNIFIED BY THE GENERAL CONTRACTOR AND MUST BE NAMED AN ADDITIONAL INSURED UNDER THE GENERAL CONTRACTOR'S POLICIES OF GENERAL LIABILITY INSURANCE AS DESCRIBED ABOVE IN NOTE 19 FOR JOB SITE SAFETY.
 - IF THE CONTRACTOR DEVIATES FROM THE PLANS AND SPECIFICATIONS, INCLUDING THE NOTES CONTAINED HEREIN, WITHOUT FIRST OBTAINING THE PRIOR WRITTEN AUTHORIZATION OF THE ENGINEER FOR SUCH DEVIATIONS, THE

- CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PAYMENT OF ALL COSTS INCURRED IN CORRECTING ANY WORK DONE WHICH DEVIATES FROM THE PLANS, ALL FINES AND/OR PENALTIES ASSESSED WITH RESPECT THERETO AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM AND, FURTHER, SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE ENGINEER, THE FULLEST EXTENT PERMITTED BY LAW, FROM AND AGAINST ALL CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR OR ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING, NC, PLLC WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC PLAN FOR ALL WORK THAT AFFECTS PUBLIC TRAVEL EITHER IN THE R.O.W. OR ON SITE. THE COST FOR THIS ITEM MUST BE INCLUDED IN THE CONTRACTOR'S PRICE.
- ALL SIGNING AND PAVEMENT STRIPING MUST CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT.
- ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTOR'S FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH APPROVED PLANS, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- OWNER MUST MAINTAIN AND PRESERVE ALL PHYSICAL SITE FEATURES AND DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, IN STRICT ACCORDANCE WITH THE APPROVED PLANS AND DESIGN AND, FURTHER ENGINEER IS NOT RESPONSIBLE FOR ANY FAILURE TO SO MAINTAIN OR PRESERVE SITE AND/OR DESIGN FEATURES. IF OWNER FAILS TO MAINTAIN AND/OR PRESERVE ALL PHYSICAL SITE FEATURES AND/OR DESIGN FEATURES DEPICTED ON THE PLANS AND RELATED DOCUMENTS, OWNER AGREES TO INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- ALL DIMENSIONS MUST BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION AND MATERIALS MUST COMPLY WITH AND CONFORM TO APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, ORDINANCES, RULES AND CODES, AND ALL APPLICABLE OSHA REQUIREMENTS.
- CONTRACTOR AND OWNER MUST INSTALL ALL ELEMENTS AND COMPONENTS IN STRICT COMPLIANCE WITH AND ACCORDANCE WITH MANUFACTURER'S STANDARDS AND RECOMMENDED INSTALLATION CRITERIA AND SPECIFICATIONS. IF CONTRACTOR AND/OR OWNER FAIL TO DO SO, THEY AGREE TO JOINTLY AND SEVERALLY INDEMNIFY AND HOLD ENGINEER HARMLESS FOR ALL INJURIES AND DAMAGES THAT ENGINEER SUFFERS AND COSTS THAT ENGINEER INCURS AS A RESULT OF SAID FAILURE.
- CONTRACTOR IS RESPONSIBLE TO MAINTAIN ON-SITE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN COMPLIANCE WITH EPA REQUIREMENTS FOR SITES WHERE ONE (1) ACRE OR MORE (UNLESS THE LOCAL JURISDICTION REQUIRES FEWER) IS DISTURBED BY CONSTRUCTION ACTIVITIES. CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL ACTIVITIES, INCLUDING THOSE OF SUBCONTRACTORS, ARE IN COMPLIANCE WITH THE SWPPP, INCLUDING BUT NOT LIMITED TO LOGGING ACTIVITIES (MINIMUM ONCE PER WEEK AND AFTER RAINFALL EVENTS) AND CORRECTIVE MEASURES, AS APPROPRIATE.
- AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS "CERTIFY OR CERTIFICATION" CONSTITUTE AN EXPRESSION OF "PROFESSIONAL OPINION" REGARDING THE INFORMATION WHICH IS THE SUBJECT OF THE UNDERSIGNED PROFESSIONAL KNOWLEDGE OR BELIEF AND IN ACCORDANCE WITH COMMON ACCEPTED PROCEDURE CONSISTENT WITH THE APPLICABLE STANDARDS OF PRACTICE, AND DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EITHER EXPRESSED OR IMPLIED.

GENERAL GRADING & UTILITY NOTES

- ALL WATER, SEWER, AND OTHER COVERED INFRASTRUCTURE IS TO BE CONSTRUCTED IN ACCORDANCE WITH CAPE FEAR PUBLIC UTILITY AUTHORITY COUNTY WATER UTILITY DIVISION SPECIFICATIONS.
- LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCY OR AMBIGUITY MUST BE REPORTED, IN WRITING, TO THE ENGINEER. CONSTRUCTION MUST COMMENCE BEGINNING AT THE LOWEST INVERT (POINT OF CONNECTION) AND PROGRESS UP GRADIENT. PROPOSED INTERFACE POINTS (CROSSINGS) WITH EXISTING UNDERGROUND UTILITIES SHALL BE FIELD VERIFIED BY TEST PIT PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR MUST VERTICALLY AND HORIZONTALLY LOCATE ALL UTILITIES AND SERVICES INCLUDING, BUT NOT LIMITED TO, GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN THE LIMITS OF DISTURBANCE, WHICH EVER IS GREATER. THE CONTRACTOR MUST USE, REFER TO, AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION, AT NO COST TO THE OWNER. CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL CONSTRUCTION CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION AND COMMENCEMENT OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT AND/OR DISCREPANCY BETWEEN THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, REGULATIONS, LAWS, RULES, STATUTES AND/OR ORDINANCES, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD, IN WRITING, OF SAID CONFLICT AND/OR DISCREPANCY PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR'S FAILURE TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE CONTRACTOR'S FULL AND COMPLETE ACCEPTANCE OF ALL RESPONSIBILITY TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS, LAWS, STATUTES, ORDINANCES AND CODES AND, FURTHER, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SAME.
- THE CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE UTILITIES TO BE REMOVED OR DELETED FROM THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- THE CONTRACTOR MUST FAMILIARIZE ITSELF WITH THE APPLICABLE UTILITY SERVICE PROVIDER REQUIREMENTS AND IS RESPONSIBLE FOR ALL COORDINATION REGARDING UTILITY DEMOLITION AS IDENTIFIED OR REQUIRED FOR THE PROJECT. THE CONTRACTOR MUST PROVIDE THE OWNER WITH WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH THE JURISDICTION AND UTILITY COMPANY REQUIREMENTS AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
- THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUTTING UTILITY CONNECTION LOCATIONS, GREAT TRAP REQUIREMENTS, DETAILS, DRAIN ACCESS, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITIES/SERVICES WITH THE INDIVIDUAL COMPANIES, TO AVOID CONFLICTS AND TO ENSURE THAT PROPER DEPTHS ARE ACHIEVED. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT INSTALLATION OF ALL IMPROVEMENTS COMES WITH ALL UTILITY REQUIREMENTS WITH JURISDICTION AND/OR CONTROL OF THE SITE, AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES AND, FURTHER, IS RESPONSIBLE FOR COORDINATING THE UTILITY CONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY/SERVICE, WHERE A CONFLICT EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, OR WHERE ARCHITECTURAL PLAN UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME.
- WATER SERVICE MATERIALS, BURIAL DEPTH, AND COVER REQUIREMENTS MUST BE SPECIFIED BY THE LOCAL UTILITY COMPANY. CONTRACTOR'S PRICE FOR WATER SERVICE MUST INCLUDE ALL FEES, COSTS AND APPURTENANCES REQUIRED BY THE UTILITY TO PROVIDE FULL AND COMPLETE WORKING SERVICE. CONTRACTOR MUST CONTACT THE APPLICABLE MUNICIPALITY TO CONFIRM THE PROPER WATER METER AND VAULT, PRIOR TO COMMENCING CONSTRUCTION.
- ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC. ARE TO BE INSTALLED UNDERGROUND. ALL NEW UTILITIES/SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY/SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- SITE GRADING MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REPLACING UNSUITABLE MATERIALS WITH SUITABLE MATERIALS AS SPECIFIED IN THE GEOTECHNICAL REPORT. ALL EXCAVATED OR FILLED AREAS MUST BE COMPACTED AS OUTLINED IN THE GEOTECHNICAL REPORT. MOISTURE CONTENT AT TIME OF PLACEMENT MUST BE SUBMITTED IN A COMPACTION REPORT PREPARED BY THE CONTRACTOR AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBBASE MATERIALS, CURB, ASPHALT, SAND, AND OTHER UNSUITABLE MATERIALS, SHOULD SUBBASE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, SUBBASE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING EXCAVATION, BACKFILL, AND COMPACTING MUST COMPLY WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. EARTHWORK ACTIVITIES MUST COMPLY WITH THE STANDARD STATE DOT SPECIFICATIONS FOR ROADWAY CONSTRUCTION (LATEST EDITION) AND ANY AMENDMENTS OR REVISIONS THERETO.
- ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND MUST BE PROVIDED WITH THE APPLICABLE UTILITY COMPANY SPECIFICATIONS. WHEN THE PROJECT DOES NOT HAVE GEOTECHNICAL RECOMMENDATIONS, FILL AND COMPACTION MUST, AT A MINIMUM, COMPLY WITH THE STATE DOT REQUIREMENTS AND SPECIFICATIONS AND CONSULTANT SHALL HAVE NO LIABILITY OR RESPONSIBILITY FOR OR AS RELATED TO FILL, COMPACTION AND BACKFILL. FURTHER, CONTRACTOR IS FULLY RESPONSIBLE FOR EARTHWORK BALANCE.
- THE CONTRACTOR MUST COMPLY, TO THE FULLEST EXTENT, WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR EXCAVATION OR TRENCHING OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES AND CONSULTANT SHALL HAVE NO RESPONSIBILITY FOR OR AS RELATED TO EXCAVATION OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.
- PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUTT JOINTS, MUST EXTEND TO THE FULL DEPTH OF THE EXISTING PAVEMENT. ALL DEBRIS FROM REMOVAL OPERATIONS MUST BE REMOVED FROM THE SITE AT THE TIME OF EXCAVATION. STOCKPILING OF DEBRIS WILL NOT BE PERMITTED.
- THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADE. CONFORMANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
- DURING THE INSTALLATION OF SANITARY SEWER, STORM SEWER, AND ALL UTILITIES, THE CONTRACTOR MUST MAINTAIN A CONTEMPORANEOUS AND THOROUGH RECORD OF CONSTRUCTION TO IDENTIFY THE AS-INSTALLED LOCATIONS OF ALL UNDERGROUND INFRASTRUCTURE. THE CONTRACTOR MUST CAREFULLY NOTE ANY INSTALLATIONS THAT DEVIATE FROM THE INFORMATION CONTAINED IN THE UTILITY PLAN. THIS RECORD MUST BE KEPT ON A CLEAN COPY OF THE SITE PLAN.

WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF WORK.

- WHEN THE SITE IMPROVEMENT PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL LINES INCLUDING THE UNLIMITED LINES TO THE FULLEST EXTENT PERMITTED BY LAW, FROM AND AGAINST ALL CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY CLAIMS, STATUTORY CAUSES OF ACTION, LOSSES, CAUSES OF ACTION, LIABILITIES OR COSTS, INCLUDING, BUT NOT LIMITED TO, REASONABLE ATTORNEY'S FEES AND DEFENSE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTOR OR ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES WITH JURISDICTION OVER THE PROJECT AND/OR PROPERTY. BOHLER ENGINEERING, NC, PLLC WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR VERIFICATION OF EXISTING TOPOGRAPHIC INFORMATION AND UTILITY INVERT ELEVATIONS PRIOR TO COMMENCING ANY CONSTRUCTION. CONTRACTOR MUST CONFIRM AND ENSURE 0.75% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS; 1.0% ON ALL CONCRETE SURFACES; AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS LIMIT GRADES). TO PREVENT PONDING, CONTRACTOR MUST IMMEDIATELY IDENTIFY, IN WRITING TO THE ENGINEER, ANY DISCREPANCIES THAT MAY OR COULD AFFECT THE PUBLIC SAFETY, HEALTH OR GENERAL WELFARE, OR PROJECT COST. IF CONTRACTOR PROCEEDS WITH CONSTRUCTION WITHOUT PROVIDING PROPER NOTIFICATION, MUST BE AT THE CONTRACTOR'S OWN RISK AND, FURTHER, CONTRACTOR SHALL INDEMNIFY, DEFEND AND HOLD HARMLESS THE DESIGN ENGINEER FOR ANY DAMAGES, COSTS, INJURIES, ATTORNEY'S FEES AND THE LIKE WHICH RESULT FROM SAME.
- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY 6" ABOVE EXISTING LOCAL ASPHALT GRADE UNLESS OTHERWISE NOTED. FIELD ADJUST TO CREATE A MINIMUM OF 0.75% GUTTER GRADE ALONG CURB FACE. IT IS CONTRACTOR'S OBLIGATION TO ENSURE THAT DESIGN ENGINEER PROVIDES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME.
- REFER TO SITE PLAN FOR ADDITIONAL NOTES.
- IN THE EVENT OF DISCREPANCIES AND/OR CONFLICTS BETWEEN PLANS OR RELATIVE TO OTHER PLANS, THE SITE PLAN WILL TAKE PRECEDENCE AND CONTROL. CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER, IN WRITING, OF ANY DISCREPANCIES AND/OR CONFLICTS.
- CONTRACTOR MUST BE REQUIRED TO SECURE ALL NECESSARY AND/OR REQUIRED PERMITS AND APPROVALS FOR ALL OFF SITE MATERIAL SOURCES AND DISPOSAL FACILITIES. CONTRACTOR MUST SUPPLY A COPY OF APPROVALS TO ENGINEER AND OWNER PRIOR TO INITIATING WORK ANY WORK.
- WHERE RETAINING WALLS (WHETHER OR NOT THEY MEET THE JURISDICTIONAL DEFINITION) ARE IDENTIFIED ON PLANS, ELEVATIONS IDENTIFIED ARE FOR THE EXPOSED PORTION OF THE WALL. WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR BASED ON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS.
- STORM DRAINAGE PIPE:
 - UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH WATER TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HOPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M24 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORNERINGS) WITH GASKET FOR SILT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.
 - SANITARY SEWER PIPE MUST BE POLYVINYL CHLORIDE (PVC) SDR 35 EXCEPT WHERE INDICATED OTHERWISE. SANITARY LATERAL MUST BE PVC SCHEDULE 40 OR PVC SDR 26 UNLESS INDICATED, IN WRITING, OTHERWISE.
- STORM AND SANITARY SEWER PIPE LENGTHS IDENTIFIED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.
- STORMWATER ROOF DRAIN LOCATIONS ARE BASED ON PRELIMINARY ARCHITECTURAL PLANS. CONTRACTOR IS RESPONSIBLE TO AND FOR VERIFYING LOCATIONS OF SAME BASED ON FINAL ARCHITECTURAL PLANS.
- SEWERS CROSSING STREAMS AND/OR LOCATION WITHIN 10 FEET OF THE STREAM EMBANKMENT, OR WHERE SITE CONDITIONS SO INDICATE, MUST BE CONSTRUCTED OF STEEL, REINFORCED CONCRETE, DUCTILE IRON OR OTHER SUITABLE MATERIAL.
 - SEWERS CONVEYING SANITARY FLOW COMBINED SANITARY AND STORMWATER FLOW OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES MUST BE IN SEPARATE TRENCHES WITH THE SEWER AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, OR SUCH OTHER SEPARATION AS APPROVED BY THE GOVERNMENT AGENCY WITH JURISDICTION OVER SAME.
 - WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER MUST BE PROVIDED.
- WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER PURVEYOR. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAINS SHALL BE CEMENT LINED DUCTILE IRON (DI) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.
- CONTRACTOR MUST ENSURE THAT ALL UTILITY TRENCHES LOCATED IN EXISTING PAVED ROADWAYS INCLUDING SEWER, WATER AND STORM SYSTEMS, MUST BE REPAIRED IN ACCORDANCE WITH REFERENCED MUNICIPAL, COUNTY AND/OR NCDOT DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.
- LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY.
- CONSULTANT IS NEITHER LIABLE NOR RESPONSIBLE FOR ANY SUBSURFACE CONDITIONS AND FURTHER, SHALL HAVE NO LIABILITY FOR ANY HAZARDOUS MATERIALS, HAZARDOUS SUBSTANCES, OR POLLUTANTS ON, ABOUT OR UNDER THE PROPERTY.
- ALL PAVEMENT MARKINGS IN, OR LEADING TO, THE PUBLIC RIGHT-OF-WAY ARE TO BE THERMOPLASTIC WITH EMBEDDED GLASS BEADS.

ADA STANDARDS TO CONTRACTOR

- CONTRACTORS MUST EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAP) ACCESSIBLE COMPONENTS AND ACCESS ROUTES FOR THE SITE. THESE COMPONENTS AS CONSTRUCTED, MUST COMPLY WITH THE CURRENT ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY MODIFICATIONS TO THE EXISTING SERVICE SYSTEMS SHALL BE IN ACCORDANCE WITH THE CURRENT ADA STANDARDS AND REGULATIONS' BARRIER FREE ACCESS AND ANY TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1.50 (2.0%) IN ANY DIRECTION.
 - CURB RAMPS - SLOPE MUST NOT EXCEED 1:12 (8.3%) FOR A MAXIMUM OF SIX (6) FEET.
 - LANDINGS - MUST BE PROVIDED AT EACH END OF RAMPS, MUST PROVIDE POSITIVE DRAINAGE, AND MUST NOT EXCEED 1.50 (2.0%) IN ANY DIRECTION.
 - PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 48-INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL (CAR OVERHANGS AND/OR HANDRAILS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE MUST BE NO GREATER THAN 1:20 (5.0%) IN THE DIRECTION OF TRAVEL AND MUST NOT EXCEED 1:50 (2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:30 (5.0%), ADA RAMP MUST BE ADHERED TO. A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM RISE OF 2.5 FEET, MUST BE PROVIDED. THE RAMP MUST HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:50 IN ANY DIRECTION (2.0%) FOR POSITIVE DRAINAGE.
 - DOORWAYS - MUST HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED AWAY FROM THE DOOR NO MORE THAN 1:50 (2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA MUST BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS. (SEE ICCANSI A117.1-2003 AND OTHER REFERENCED INCORPORATED BY CODE).
 - WHEN THE PROPOSED CONSTRUCTION INVOLVES RECONSTRUCTION, MODIFICATION, REVISION OR EXTENSION OF OR TO ADA COMPONENTS FROM EXISTING DOORWAYS OR SURFACES, CONTRACTOR MUST VERIFY EXISTING ELEVATIONS SHOWN ON THE PLANS. NO THAT TABLE 2 OF THE DEPARTMENT OF JUSTICE'S ADA STANDARDS FOR ACCESSIBLE DESIGN ALLOWS FOR STEEPER RAMP SLOPES, IN RARE CIRCUMSTANCES, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES AND/OR FIELD CONDITIONS THAT DIFFER IN ANY WAY OR ANY RESPECT FROM WHAT IS SHOWN ON THE PLANS, IN WRITING, BEFORE COMMENCEMENT OF WORK. CONSTRUCTED IMPROVEMENTS MUST FALL WITHIN THE MAXIMUM AND MINIMUM LIMITATIONS IMPOSED BY THE BARRIER FREE REGULATIONS AND THE ADA REQUIREMENTS.
 - THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-COMFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-COMFORMING CONCRETE.

CITY OF WILMINGTON 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 SHALL BE PROPERLY BARRIAGED 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.
- ONCE STREETS ARE OPEN TO TRAFFIC, CONTACT TRAFFIC ENGINEERING REGARDING THE INSTALLATION OF TRAFFIC AND STREET NAME SIGNS. PROPOSED STREET NAMES MUST BE APPROVED PRIOR TO INSTALLATION OF STREET NAME SIGNS.
- 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.
- CONTACT TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- TRAFFIC ENGINEERING AT 910-341-7888 TO ENSURE THAT ALL TRAFFIC SIGNAL FACILITIES AND EQUIPMENT ARE SHOWN ON THE PLAN.
- TRAFFIC ENGINEERING MUST APPROVE OF PAVEMENT MARKING PRIOR TO ACTUAL STRIPING.
- ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
- ALL TRAFFIC CONTROL SIGNS AND MARKINGS OFF THE RIGHT-OF-WAY ARE TO BE MAINTAINED BY THE PROPERTY OWNER.
- STOP SIGNS AND STREET SIGNS TO REMAIN IN PLACE DURING CONSTRUCTION.
- TACTILE WARNING MATS WILL BE INSTALLED ON ALL WHEELCHAIR RAMPS.
- A UTILITY CUT PERMIT IS REQUIRED FOR EACH OPEN CUT OF A CITY STREET.
- ANY BROKEN OR MISSING SIDEWALK PANELS WILL BE REPLACED.
- CONTACT KAREN DIXON AT 910-341-7888 TO DISCUSS STREET LIGHTING OPTIONS.
- WATER AND SEWER SERVICE SHALL MEET CAPE FEAR PUBLIC UTILITY AUTHORITY (CFPUA) DETAILS AND SPECIFICATIONS.
- PROJECT SHALL COMPLY WITH CFPUA CROSS CONNECTION CONTROL REGULATIONS. WATER METERS(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 CFPUA WATER FOR CONSTRUCTION, HE SHALL APPLY IN ADVANCE FOR THIS SERVICE AND MUST PROVIDE A REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTION DEVICE ON THE DEVELOPER'S SIDE OF THE WATER METER BOX.
- ANY IRRIGATION SYSTEM SUPPLIED BY CFPUA WATER SHALL COMPLY WITH THE CFPUA CROSS CONNECTION CONTROL REGULATIONS. CALL 910-343-3910 FOR I INFORMATION.
- ANY IRRIGATION SYSTEM SHALL BE EQUIPPED WITH A RAIN AND FREEZER SENSOR.
- ANY BACKFLOW PREVENTION DEVICES REQUIRED BY THE CFPUA WILL NEED TO BE ON THE LIST OF APPROVED DEVICES BY USCFCOCHR OR ASSE.
- CONTRACTOR TO FIELD VERIFY EXISTING WATER AND SEWER SERVICE LOCATIONS, SIZES AND MATERIALS PRIOR TO CONSTRUCTION. ENGINEER TO BE NOTIFIED OF ANY CONFLICTS.
- CONTRACTOR SHALL MAINTAIN ALL WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION.
- UNDERGROUND FIRE LINES(S) MUST BE PERMITTED AND INSPECTED BY THE WILMINGTON FIRE DEPARTMENT FROM THE PUBLIC RIGHT-OF-WAY TO THE BUILDING. CONTRACTOR TO FIELD VERIFY EXISTING FIRE DEPARTMENT DIVISION FIRE LINES AND FIRE DEPARTMENT DIVISION FIRE LINES.
- NO OBSTRUCTIONS ARE PERMITTED IN THE SPACE BETWEEN THIRTY (30) INCHES AND TEN (10) FEET ABOVE THE GROUND WITHIN THE TRIANGULAR SIGHT DISTANCE.
- CONTACT THE NORTH CAROLINA ONE CALL CENTER AT 1-800-632-4949 PRIOR TO DOING ANY DIGGING, CLEARING, OR GRADING.

BOHLER ENGINEERING NC, PLLC

STATE OF NORTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 40424

LAND SURVEYING PROGRAM MANAGER
SUSTAINABLE DESIGN PROGRAM MANAGER
PERMITTING SERVICES
TRANSPORTATION SERVICES
TRANSLANGUAGE ARCHITECTURE SERVICES

SITE INVENTORY NOTES:

1. THIS PROPERTY IS NOT IMPACTED BY ANY AEC.
2. THERE ARE NO CONSERVATION OVERLAY BOUNDARIES AFFECTING THIS PROPERTY.
3. THIS SITE IS NOT IMPACTED BY ANY RECOGNIZED HISTORIC OR ARCHEOLOGICAL SIGNIFICANCE.
4. NO CEMETERIES WERE EVIDENT ON THE SITE R INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS.
5. THERE IS NO EVIDENCE OF JURISDICTIONAL WETLANDS ON THE SITE.
6. THERE IS NO EVIDENCE OF ENDANGERED SPECIES OR HABITAT ISSUES ON THE SITE.
7. THE SITE DRAINAGE FLOWS INTO THE BARNARDS CREEK WATERSHED WITHIN THE CAPE FEAR RIVER BASIN. CLASS C:SW WATERS.

DEVELOPMENT DATA:

TOTAL TRACT AREA: 3.97 AC±
 EXISTING IMPERVIOUS AREA: 0 SF
 PROPOSED BUILDING AREA: 35,962 SF
 TOTAL PROPOSED IMPERVIOUS AREA: 121,528 SF (70.2%)
 TOTAL DISTURBED AREA:
 166,676 SF± (3.87 AC)

PAVEMENT LEGEND

	DELINEATES PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	DELINEATES PROPOSED CONCRETE SIDEWALK
	DELINEATES PROPOSED HEAVY DUTY CONCRETE PAVEMENT*
	DELINEATES PROPOSED STANDARD DUTY ASPHALT PAVEMENT

(* CONCRETE JOINTING AND FILLERS TO BE COMPLETED PER DETAIL AND SPECIFICATIONS.

GRAPHIC LEGEND

EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
	PROPERTY LINE	
	RIGHT OF WAY LINE	
	BUILDING OR PARKING SETBACK	
	LIMITS OF DISTURBANCE	
	SAWCUT LINE	
	CURB & GUTTER	
	SPILL CURB	
	FLUSH CURB	
	TRANSITION CURB	
	UTILITY POLE	
	LIGHT POLE	
	STORMWATER INLET	
	SANITARY MANHOLE	
	SANITARY CLEANOUT	
	STORM MANHOLE	
	ELEC. TRANSFORMER ON CONC. PAD	
	PAVEMENT STRIPING - 4" SSWL	
	STOP SIGN	
	ADA ACCESSIBLE PARKING SIGN	
	PAINTED STOP BAR	
	FENCE	

NOTES

1. SEE SHEET C-1.1 SHEET FOR ALL GENERAL NOTES.
2. ALL DIMENSIONS ARE SHOWN FROM FACE OF CURB TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL CONSTRUCTION WITHIN THE NCDOT RIGHT-OF-WAY SHALL COMPLY WITH THE MOST CURRENT EDITION OF NCDOT CONSTRUCTION STANDARDS & SPECIFICATIONS.

PAINTING STRIPING LEGEND

4" SSWL - 4" WIDE SINGLE SOLID WHITE LINE
 4" SSSL - 4" WIDE SINGLE SOLID BLUE LINE

SITE PLAN & ZONING NOTES:

1. THIS PLAN REFERENCES THE FOLLOWING DOCUMENTS & INFORMATION BY:
 - *ALTA/ASCM LAND TITLE SURVEY FOR: LIDL US OPERATIONS, LLC PREPARED BY ALLIED ASSOCIATES, P.A. 4720 KESTER HILL ROAD WINSTON-SALEM, NC 27103 DATED 03/16/2016
2. EXISTING OWNER:
 - PARCEL #1 PIN # 3135-37-9059.000 GIVT PROPERTIES, LLC DB 5100 PG 288 GROSS AREA: ± 8.23 AC
 - PARCEL #2 PIN # 3135-38-5767.00 GIVT PROPERTIES, LLC DB 5100 PG 288 GROSS AREA: ± 1.81 AC
 - PARCEL #3 PARCEL ID: R06600-01-005-006 NEW POINT CHURCH DB 5895 PG 655 GROSS AREA: ± 7.5 AC
3. APPLICANT: LIDL US OPERATIONS, LLC 1500 SUNDAY DRIVE, SUITE 101 RALEIGH, NC 27607 CONTACT: RYAN WEHMANN PHONE: (703) 346-4554
- PARCEL: S. 17TH ST. AND PEEL ST. WILMINGTON, NC 28412 GROSS AREA: ± 17.54 ACRES
4. ZONE: CB-COMMUNITY BUSINESS
 USES: GROCERY / FOOD SALES/RETAIL BUSINESS = PERMITTED
5. CAMA LAND CLASSIFICATION: URBAN
6. BULK REQUIREMENTS:

BUSINESS DISTRICT	CODE REFERENCE	REQUIRED	PROPOSED
MIN. LOT /LEASE AREA:		NS	172,870 SF (3.97 AC)
MIN. LOT WIDTH:		NS	377.5'
BUILDING SETBACKS			
MIN. FRONT YARD SETBACK	ARTICLE 5, SEC. 18-194	20'	143.8'
MIN. SIDE YARD SETBACK	ARTICLE 5, SEC. 18-194	0 ft (20 ft when abutting Residential + 1' for every 1' over 20 ft of bldg height)	79.5'
MIN. REAR YARD SETBACK	ARTICLE 5, SEC. 18-194	10 ft (25 ft when abutting Residential + 1' for every 1' over 20ft of bldg height)	13.2'
MAX BUILDING HEIGHT	ARTICLE 5, SEC. 18-194	45'	

NA = NOT APPLICABLE NS = NOT SPECIFIED (V) = VARIANCE (H) = HINDER (E) = EXISTING NONCONFORMANCE TBD = TO BE DETERMINED. (C) = COMPLIES

6. PARKING SUMMARY:

NUMBER OF PARKING SPACES REQUIRED (CITY OF WILMINGTON - ARTICLE 9 SEC. 18.526-18.533):
 REQUIRED:
 GROCERY STORE (MIN): 1.0 SPACE / 400 SF GFA x 35,962 SF = 90 SPACES
 GROCERY STORE (MAX): 1.0 SPACE / 200 SF x 35,962 SF = 180 SPACES
 PROPOSED:
 TOTAL PROPOSED PARKING = 155 SPACES
 (4,311,000 SF OF GROSS FLOOR AREA) (COMPLIES)

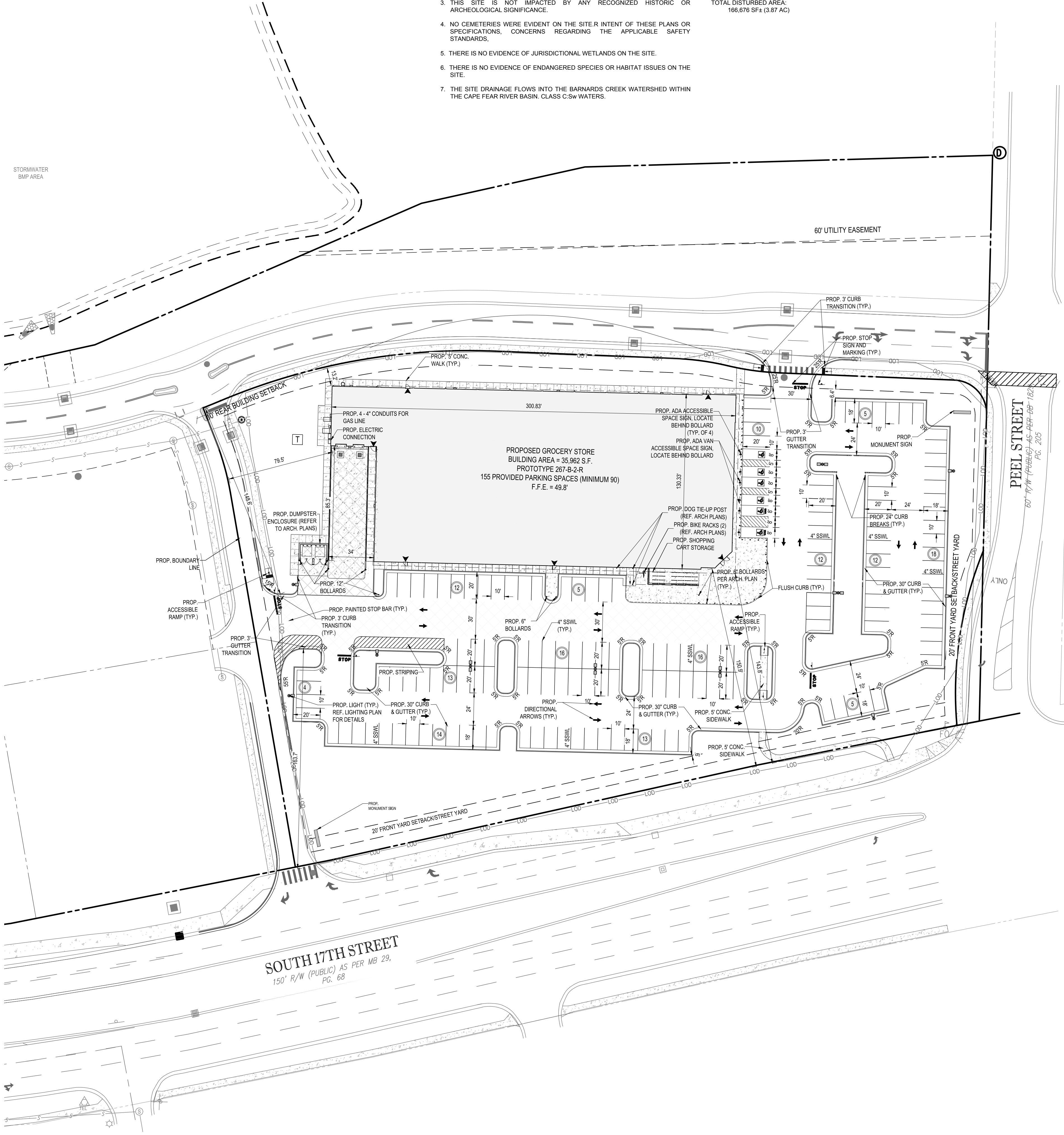
NUMBER OF ACCESSIBLE SPACES REQUIRED:
 CODE REQUIREMENT (6) / 151-200 SPACES:
 6 SPACES
 PROPOSED:
 6 SPACES (2 VAN) (COMPLIES)

FOR 90 DEGREE PARKING SPACES:

	REQUIRED	PROPOSED	
ONE-WAY TRAFFIC FLOW	20'	24'	(COMPLIES)
TWO-WAY TRAFFIC FLOW	24'	24 FEET	(COMPLIES)
PARKING SPACE DIMENSION:	8.5' x 18'	10' x 20'	(COMPLIES) (PERIMETER)

7. LOADING REQUIREMENTS:

	REQUIRED	PROPOSED	
NUMBER OF LOADING SPACES	2	2	(COMPLIES)
SIZE OF LOADING SPACE (MIN.)	12' x 56'	10' x 56'	(COMPLIES)



BOHLER ENGINEERING NC, PLLC
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 STATE OF NORTH CAROLINA
 LICENSE NO. 040241
 PROJECT: 11-29-16

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PROJECT No.: NCR151031
 DRAWN BY: AWA
 CHECKED BY: 4/25/16
 DATE: 11-29-16
 SCALE: 1" = 40'
 CAD I.D.: SSO

PROPOSED GROCERY
 FOR
LIDL US OPERATIONS, LLC
 LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

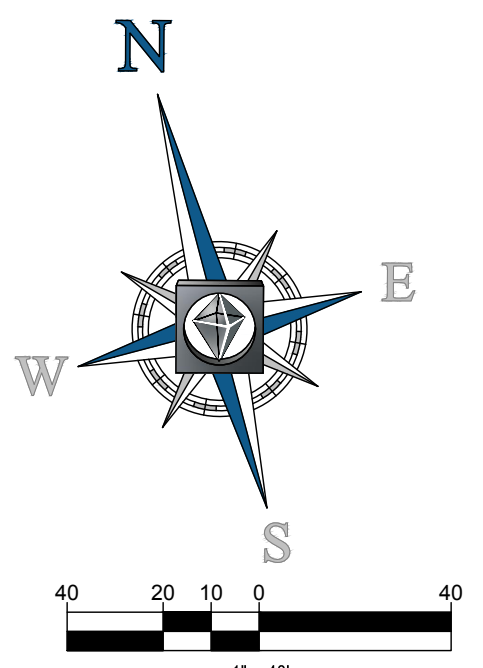
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 STATE OF NORTH CAROLINA
 LICENSE NO. 040241
 PROJECT: 11-29-16

4011 WESTCHASE BLVD., SUITE 290
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SHEET TITLE:
SITE PLAN

SHEET NUMBER:
C-3.0

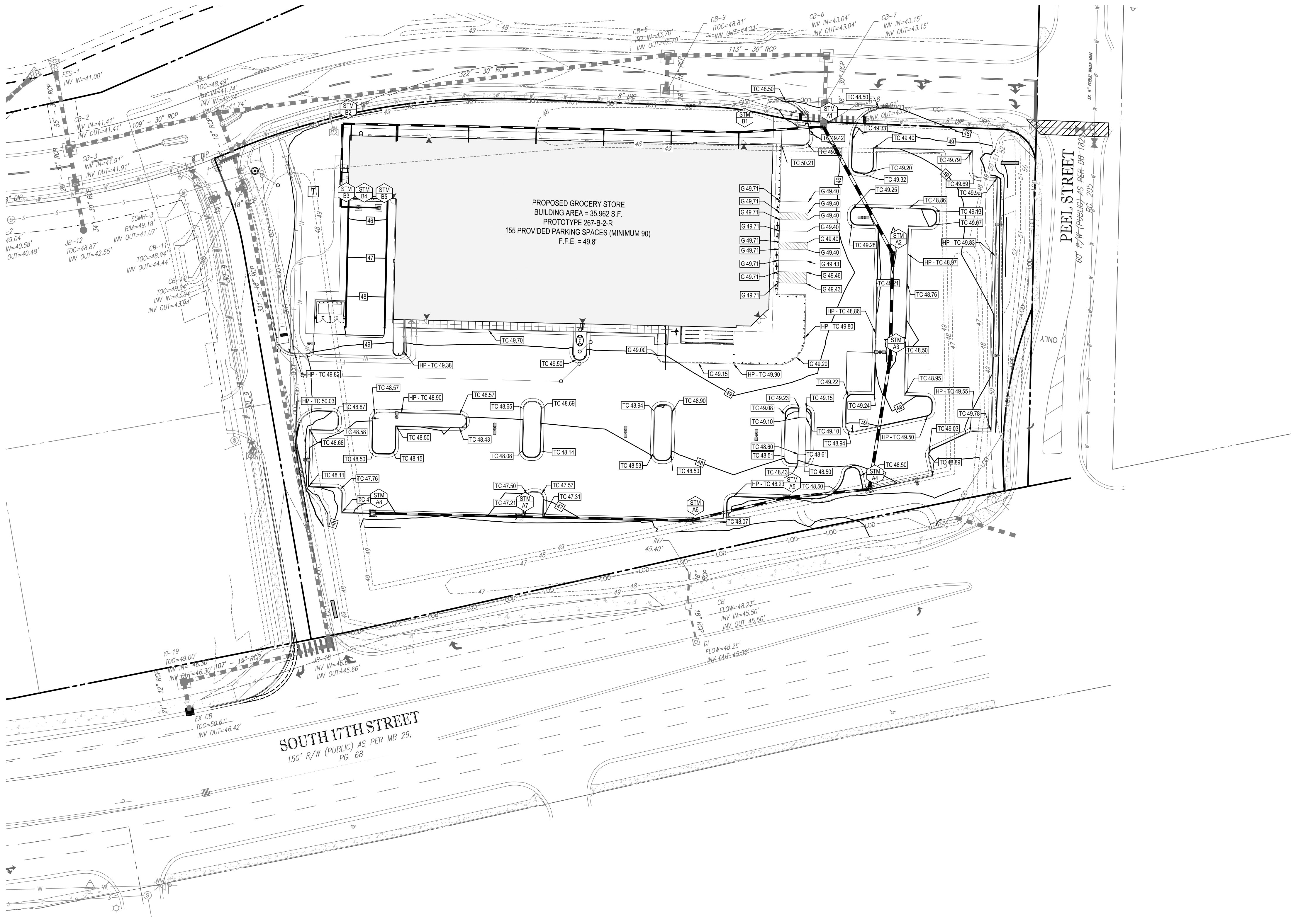


STORM STRUCTURE SCHEDULE				
NAME	TYPE	RIM ELEV. (FT.)	INVERTS	COMMENTS
A1	EXST. STORM MANHOLE	48.65'	INV IN = 43.15' INV IN = 43.20'	Reinforced Concrete
A2	PROP. INLET GRATE	49.56'	INV IN = 43.73' INV OUT = 43.73'	Reinforced Concrete
A3	PROP. INLET GRATE	49.76'	INV IN = 44.10' INV OUT = 44.10'	Reinforced Concrete
A4	PROP. CURB INLET	1.96'	INV IN = 44.58' INV OUT = 44.58'	Reinforced Concrete
A5	PROP. CURB INLET	48.42'	INV IN = 44.88' INV OUT = 44.88'	Reinforced Concrete
A6	PROP. CURB INLET	49.14'	INV IN = 45.23' INV OUT = 45.23'	Reinforced Concrete
A7	PROP. CURB INLET	47.86'	INV IN = 45.85' INV OUT = 45.84'	Reinforced Concrete
A8	PROP. CURB INLET	47.75'	INV IN = 46.36' INV OUT = 46.36'	Reinforced Concrete
B1	PROP. STORM CLEANOUT	49.64'	INV IN = 43.47' INV OUT = 43.47'	Reinforced Concrete
B2	PROP. STORM CLEANOUT	49.42'	INV IN = 43.71' INV OUT = 45.19'	Reinforced Concrete
B3	PROP. STORM CLEANOUT	49.72'	INV IN = 44.89' INV OUT = 45.23'	Reinforced Concrete
B4	PROP. INLET GRATE	45.90'	INV IN = 45.19' INV OUT = 45.27'	Reinforced Concrete
B5	PROP. INLET GRATE	45.94'	INV IN = 45.23'	Reinforced Concrete

STORM SEWER PIPE SCHEDULE						
FROM	FROM INV	TO	TO INV	DIAMETER (IN.)	SLOPE	PIPE LENGTH (FT.)
A2	43.73	A1	43.20	24"	0.52%	102.76'
A3	44.10	A2	43.73	24"	0.50%	74.23'
A4	44.58	A3	44.10	24"	0.51%	94.58'
A5	44.88	A4	44.58	18"	0.51%	59.04'
A6	45.23	A5	44.88	18"	0.49%	70.76'
A7	45.84	A6	45.23	18"	0.50%	121.06'
A8	46.36	A7	45.85	18"	0.49%	103.84'
B1	43.47	A1	43.15	15"	0.53%	60.18'
B2	45.19	B3	44.89	15"	0.51%	59.14'
B2	43.71	B1	43.47	15"	0.09%	281.68'
B3	45.23	B4	45.19	8"	0.36%	12.72'
B4	45.27	B5	45.23	8"	0.28%	14.26'

ADA INSTRUCTIONS TO CONTRACTOR:

- CONTRACTORS SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA (HANDICAPPED) ACCESSIBLE COMPONENTS FOR THE SITE. THESE COMPONENTS, AS CONSTRUCTED, MUST COMPLY WITH THE NJ UNIFORM CONSTRUCTION CODE SUBCHAPTER 7 BARRIER FREE ACCESS. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EGRESS, SHALL COMPLY WITH THESE ADA CODE REQUIREMENTS. THESE INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
- PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
 - CURB RAMPS - SLOPE SHALL NOT EXCEED 1:12 (8.3%) WITH A MAX. CHANGE OF ELEVATION OF 6".
 - LANDINGS - SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL PROVIDE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) CROSS SLOPE IN ANY DIRECTION.
 - PATH OF TRAVEL ALONG ACCESSIBLE ROUTE SHALL PROVIDE A 36 INCH OR GREATER UNOBSTRUCTED WIDTH OF TRAVEL. (CAR OVERHANGS CANNOT REDUCE THIS MINIMUM WIDTH). THE SLOPE SHALL BE NO GREATER THAN 1:20 (5.0% OR 5/8" PER FOOT) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), AN ADA RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%), FOR A MAXIMUM DISTANCE OF 30 FEET, SHALL BE PROVIDED. THE RAMP SHALL HAVE ADA HAND RAILS AND "LEVEL" LANDINGS ON EACH END THAT ARE CROSS SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE.
 - DOORWAYS - SHALL HAVE A "LEVEL" LANDING AREA ON THE EXTERIOR SIDE UP THE DOOR THAT IS SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT WHERE OTHERWISE PERMITTED BY ADA STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS (SEE ICC/ANSI A117.1-2003 AND OTHER REFERENCES INCORPORATED BY CODE).
 - THE CONTRACTOR MUST VERIFY THE SLOPES OF CONTRACTOR'S FORMS PRIOR TO POURING CONCRETE. IF ANY NON-COMFORMANCE IS OBSERVED OR EXISTS, CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER PRIOR TO POURING CONCRETE. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS TO REMOVE, REPAIR AND REPLACE NON-COMFORMING CONCRETE.



GRADING LEGEND		
EXISTING NOTE	TYPICAL NOTE TEXT	PROPOSED NOTE
---	PROPERTY LINE	---
---	CONTOUR & ELEVATION	--- 60.1 ---
---	CONTOUR & ELEVATION (DONE BY OTHERS)	--- 60.1 ---
---	UNDERGROUND WATER LINE	W-W
---	UNDERGROUND FIRE LINE	F-F
---	UNDERGROUND GAS LINE	G-G
---	OVERHEAD WIRE	OH-OH
---	UNDERGROUND ELECTRIC SERVICE	E-E
---	UNDERGROUND TELEPHONE	T-T
---	STORM SEWER	---
---	SANITARY SEWER MAIN	S-S
---	LIMITS OF DISTURBANCE	--- L.O.D. ---
---	DRAINAGE FLOW ARROW	-2.5%
---	TOP & BOTTOM OF WALL ELEVATION	--- TW 617.56 BW 615.29 ---
---	TOP OF CURB ELEVATION	--- TC 613.97 ---
---	HIGH POINT & FINISHED GRADE ELEVATION	--- HP 614.24 S 614.54 ---
---	FLUSH GRADE ELEVATION	--- FG 614.45 ---
---	TRANSFORMER ON CONC. PAD	---
---	UTILITY POLE/LIGHT	---
---	SANITARY CLEAN OUT	---
---	SANITARY MANHOLE	---
---	STORM MANHOLE	---
---	STORM CURB INLET	---
---	STORM INLET	---
---	WATER VALVE	---
---	WATER METER	---
---	STORM STRUCTURE LABEL	---

REVISIONS			
REV	DATE	COMMENT	BY

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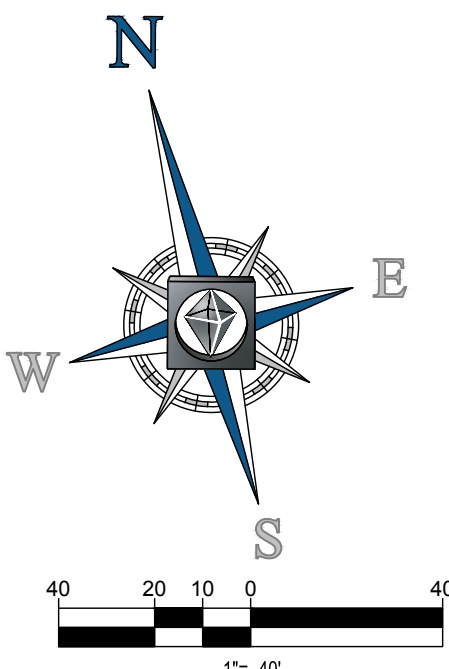
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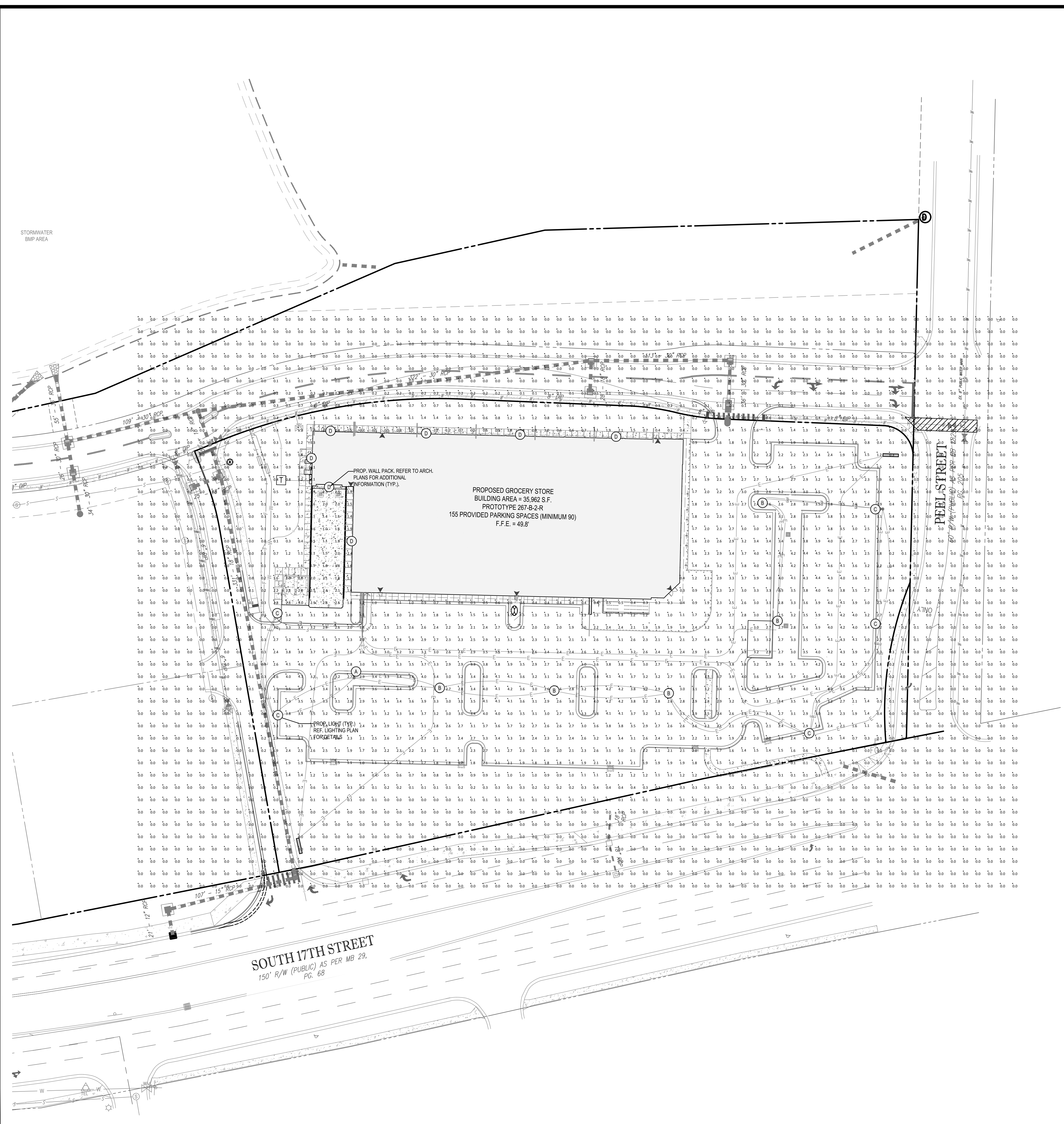
PROPOSED GROCERY
FOR
LIDL US OPERATIONS, LLC
LOCATION OF SITE
4301 S 17TH STREET
WILMINGTON, NC 28412

BOHLER ENGINEERING NC, PLLC
NCELS P-1122
4011 WESTCHASE BLVD., SUITE 290
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BOHLER ENGINEERING NC, PLLC
NORTH CAROLINA PROFESSIONAL ENGINEER
T. L. BOHLER
040241
11-29-16

SHEET TITLE:
GRADING PLAN
SHEET NUMBER:
C-4.0





LIGHTING NOTES

1. THIS LIGHTING PLAN DEPICTS PROPOSED SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY VARY DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES AND OTHER RELATED VARIABLE FIELD CONDITIONS.
2. THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.85 FOR ALL LED LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
3. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ALL ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT ELEVATION ZERO (GROUND LEVEL) UNLESS OTHERWISE NOTED. THE VALUES DEPICTED ON THIS PLAN ARE IN FOOTCANDLES.
4. THE LUMINAIRES, LAMPS AND LENSES MUST BE REGULARLY INSPECTED MAINTAINED TO ENSURE THAT THEY FUNCTION PROPERLY. THIS WORK SHOULD INCLUDE, BUT NOT BE LIMITED TO, FREQUENT VISUAL INSPECTIONS, CLEANING OF LENSES, AND RELAMPING (IF NECESSARY) AT LEAST ONCE EVERY SIX (6) MONTHS. FAILURE TO FOLLOW THE ABOVE STEPS COULD CAUSE THE LUMINAIRES, LAMPS AND LENSES TO FAIL PROPERLY TO FUNCTION.
5. WHERE APPLICABLE, THE EXISTING CONDITION LIGHT LEVELS ILLUSTRATED ARE REPRESENTATIVE OF AN APPROXIMATION UTILIZING LABORATORY DATA FOR SIMILAR FIXTURES, UNLESS ACTUAL FIELD MEASUREMENTS ARE TAKEN WITH A LIGHT METER AND ARE, CONSEQUENTLY, APPROXIMATIONS ONLY. DUE TO FACTORS SUCH AS FIXTURE MAINTENANCE, EQUIPMENT TOLERANCES, WEATHER CONDITIONS, ETC. ACTUAL LIGHT LEVELS MAY DIFFER. EXISTING LIGHT LEVELS DEPICTED ON THIS PLAN SHOULD BE CONSIDERED APPROXIMATE.
6. THIS LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, ONLY. POWER SYSTEM, CONDUITS, WIRING, VOLTAGES AND OTHER ELECTRICAL COMPONENTS ARE THE RESPONSIBILITY OF THE ARCHITECT, MEP AND/OR LIGHTING CONTRACTOR AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH ALL APPLICABLE BUILDING AND ELECTRICAL CODES AND ALL OTHER APPLICABLE RULES, REGULATIONS, LAWS AND STATUTES.
7. CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
8. IT IS LIGHTING CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROJECT ARCHITECT OR OWNER REGARDING THE POWER SOURCE(S) FROM WITHIN THE BUILDING, AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT.
9. THE LIGHTING CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THE SITE PLAN, INCLUDING BUT NOT LIMITED TO, GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL GOVERNMENTAL RULES, ORDINANCES, REGULATIONS AND THE LIKE.
10. UPON OWNER'S ACCEPTANCE OF THE COMPLETED PROJECT, THE OWNER SHALL BE RESPONSIBLE FOR ALL MAINTENANCE, SERVICING, REPAIR AND INSPECTION OF THE LIGHTING SYSTEM AND ALL OF ITS COMPONENTS AND RELATED SYSTEMS, TO ENSURE ADEQUATE LIGHTING LEVELS ARE PRESENT AND FUNCTIONING AT ALL TIMES.

GENERAL NOTES

1. THIS PLAN IS TO BE UTILIZED FOR LIGHTING PURPOSES ONLY. REFER TO ELECTRICAL ENGINEERING PLANS FOR CIRCUITRY DESIGN AND SPECIFICATIONS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO THE PROJECT ENGINEER (BOHLER) FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE FIXTURE(S) IN QUESTION WILL MEET THE DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WILL BE REJECTED.
3. LIGHTING FIXTURE MANUFACTURER: PHILIPS LIGHTING.

CALCULATION SUMMARY

LABEL	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
FULL SITE	FC	0.9	4.7	0.0	N/A	N/A
PARKING LOT	FC	2.98	4.7	1.1	2.71	4.27

LUMINAIRE SCHEDULE

PROPOSED GROCERY STORE - WILMINGTON, NC							
SYMBOL	LABEL	QUANTITY	MANUFACTURER	DESCRIPTION	LUMENS PER LAMP	LIGHT LOSS FACTOR	WATTAGE
⊙	A	1	PHILIPS GARDCO	ECF-1-6-215LA-641A-NW @ 25' MOUNTING HEIGHT	20874	0.85	210.3
⊙	B	5	PHILIPS GARDCO	ECF-2-6-215LA-641A-NW @ 25' MOUNTING HEIGHT	20874	0.85	210.3
⊙	C	5	PHILIPS GARDCO	ECF-1-4-215LA-641A-NW-S @ 25' MOUNTING HEIGHT	15431	0.85	211.7
⊙	D	7	PHILIPS GARDCO	121-16L-700-NW-G3-3 @ 14' MOUNTING HEIGHT	3421	0.85	38.4

BOHLER ENGINEERING NC, PLLC

STATE OF NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 040241

LAND SURVEYING PROGRAM MANAGER
 SUSTAINABLE DESIGN PERMITTING SERVICES

LANDSCAPE ARCHITECTURE
 TRANSPORTATION SERVICES

PHILADELPHIA, PA
 NORTHERN VIRGINIA
 RALEIGH, NC
 CHARLOTTE, NC
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 DRAWN BY: AWA
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 SCALE: SS0
 CAD I.D.:

PROPOSED GROCERY

FOR

LIDL US OPERATIONS, LLC

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

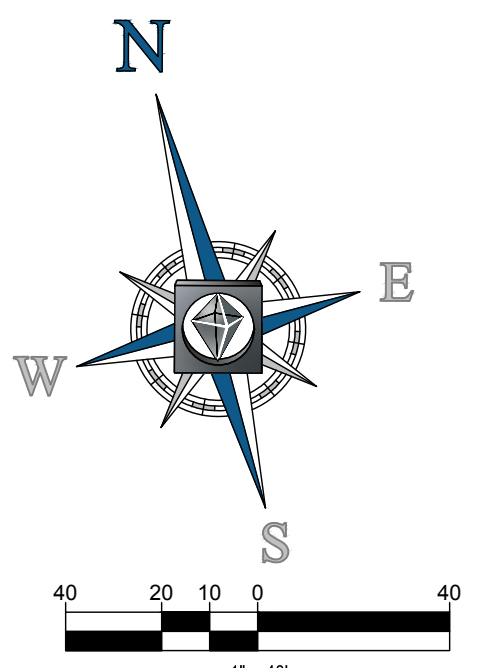
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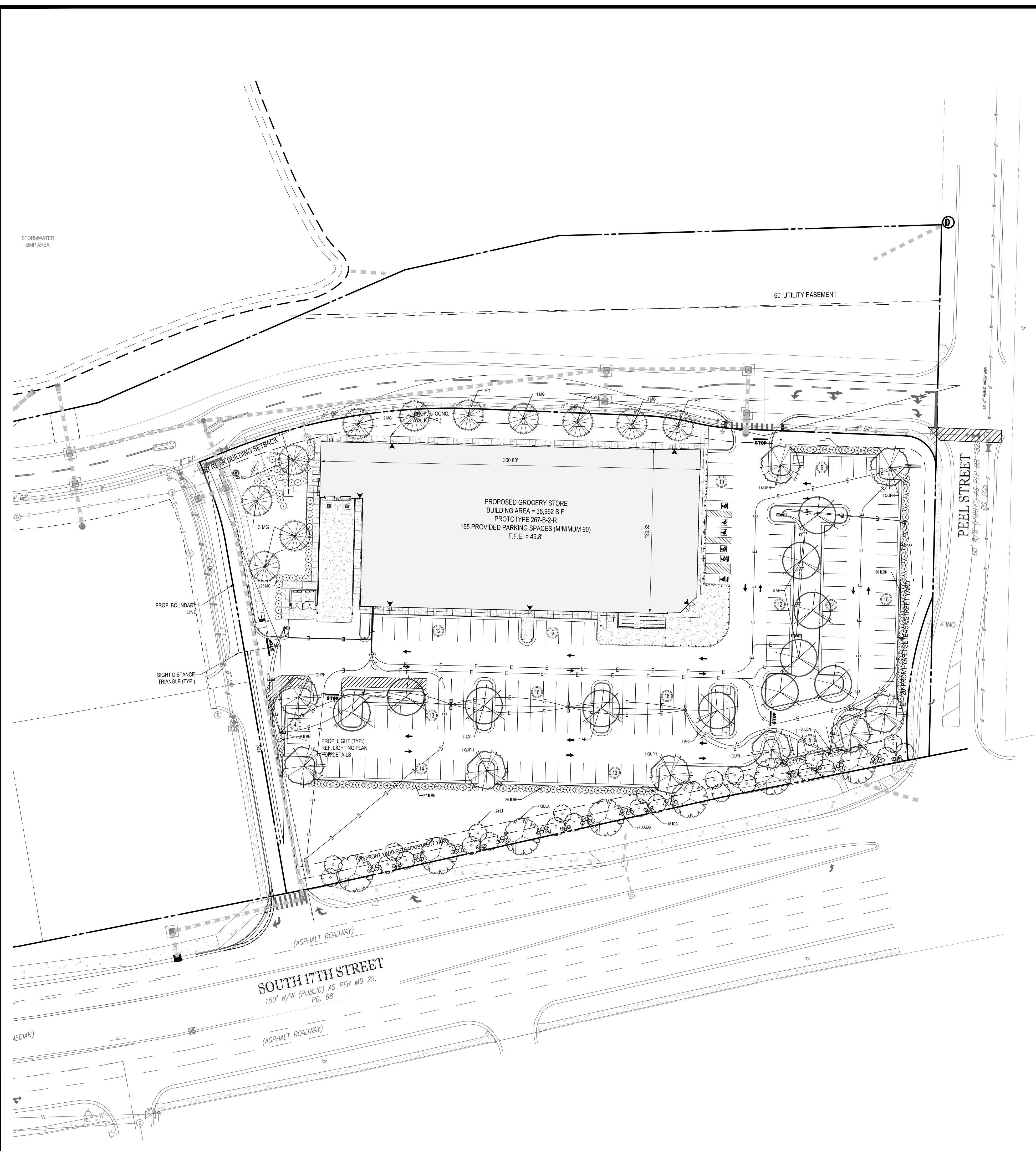
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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 T. L. BOYD
 11-29-16

SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
C-6.0





LANDSCAPE SCHEDULE					
KEY	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
AR	11	ACER RUBRUM	RED MAPLE	2.5' CAL.	8&B
QUA	7	QUERCUS LAURIFOLIA	LAUREL OAK	2.5' CAL.	8&B
QPH	9	QUERCUS PHELLOS 'HIGHTOWER'	HIGHTOWER MELLOW OAK	2.5' CAL.	8&B
LI	24	LIGULASTROBILYNDICA 'SARAH'S FAVORITE'	SARAH'S FAVORITE CRAPMYRTLE	8-10'	8&B
MG	11	MAGNOLIA GRANDIFLORA	SOUTHERN MAGNOLIA	2.5' CAL.	8&B
AKG	77	ABELIA X EDWARD GOUCHER	EDWARD GOUCHER ABELIA	18-24"	3 GAL.
ICC	19	ILEX CORNUTA 'DWARF BURFORD'	DWARF BURFORD HOLLY	18"	3 GAL.
LBN	116	ILEX CORNUTA 'DWARF BURFORD'	DWARF BURFORD HOLLY	24-30"	5 GAL.
MC	48	MYRTICA CERIFERA	WAX MYRTLE	24-30"	5 GAL.

- PLANTING NOTES:**
- ALL LANDSCAPED AREAS ARE TO RECEIVE A MINIMUM OF 4" OF TOPSOIL.
 - ALL MULCHED PLANTING BEDS ADJACENT TO BUILDING SHALL BE SEPARATED FROM FACE OF BUILDING WITH A 3" WIDE X 4" DEPTH PEK GRAVEL STRIP FOR FIRE SAFETY.
 - ALL PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS, AND FREE OF PESTS AND DISEASE.
 - ALL PLANT MATERIAL SHALL BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED IN THE PLANT LIST.
 - ALL TREES SHALL HAVE A STRAIGHT TRUNK AND FULL HEAD AND MEET ALL REQUIREMENTS SPECIFIED.
 - ALL MATERIALS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER INSTALLATION.
 - ALL TREES MUST BE GUIED OR STAKED AS SHOWN IN THE DETAILS.
 - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING PER SPECIFICATIONS TO MAINTAIN HEALTHY PLANT CONDITIONS.
 - THE CONTRACTOR SHALL COMPLETELY GUARANTEE AND BE RESPONSIBLE FOR FULLY MAINTAINING (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) ALL OF THE PLANT MATERIALS AND LAWN FOR A ONE YEAR GROWING PERIOD.
 - ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
 - STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
 - WHERE SHOWN ON THE PLANS AND DETAILS, PLANTING BEDS ARE TO BE COMPLETELY COVERED WITH A MINIMUM 4" DEPTH OF TRIPLE SHRED HARDWOOD MULCH FROM A LOCAL MULCH SOURCE HARVESTED IN A SUSTAINABLE MANNER.
 - BIODEGRADABLE WEED MATTING (ALL-PRO WEED MAT OR APPROVED EQUAL) SHALL BE REQUIRED IN SHRUB BEDS AT BUILDING FACADE.
 - ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
 - THE CONTRACTOR IS ENCOURAGED TO COMPLETE TEMPORARY OR PERMANENT SEEDING FOR SOIL STABILIZATION AS AREAS ARE COMPLETED AFTER GROWING.
 - THIS PLAN DOES NOT PRESENT ANY TEMPORARY STABILIZATION REQUIRED AS PART OF SWPPP PLAN.

LANDSCAPE DISTURBANCE CALCULATIONS:

TOTAL DISTURBED AREA: 3.97 AC±
 REQUIRED NUMBER OF TREES PER DISTURBED AREA: 60
 PROPOSED NUMBER OF TREES: 62

BOHLER ENGINEERING NC, PLLC

REGISTERED PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 LICENSE NO. 040241

PROJECT: 11-29-16

LAND SURVEYING, ENGINEERING, ARCHITECTURE, SUSTAINABLE DESIGN, PROGRAM MANAGEMENT, PERMITTING SERVICES, TRANSPORTATION SERVICES

OFFICES:
 PHILADELPHIA, PA
 RALEIGH, NC
 CHARLOTTE, NC
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REVISIONS			
REV	DATE	COMMENT	BY

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PROJECT No.: NCR151031
 DRAWN BY: AWA
 CHECKED BY: 4/25/16
 DATE: 4/25/16
 SCALE: 1" = 40'
 CAD I.D.: LPD

PROPOSED GROCERY

FOR
LIDL US OPERATIONS, LLC

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

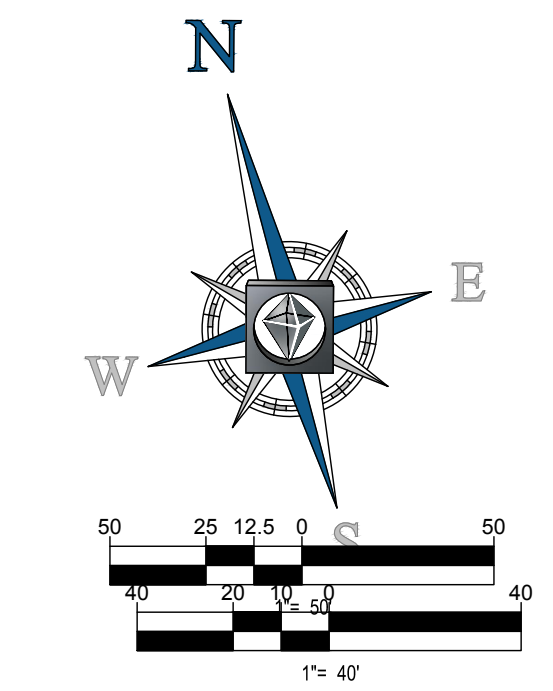
BOHLER ENGINEERING NC, PLLC

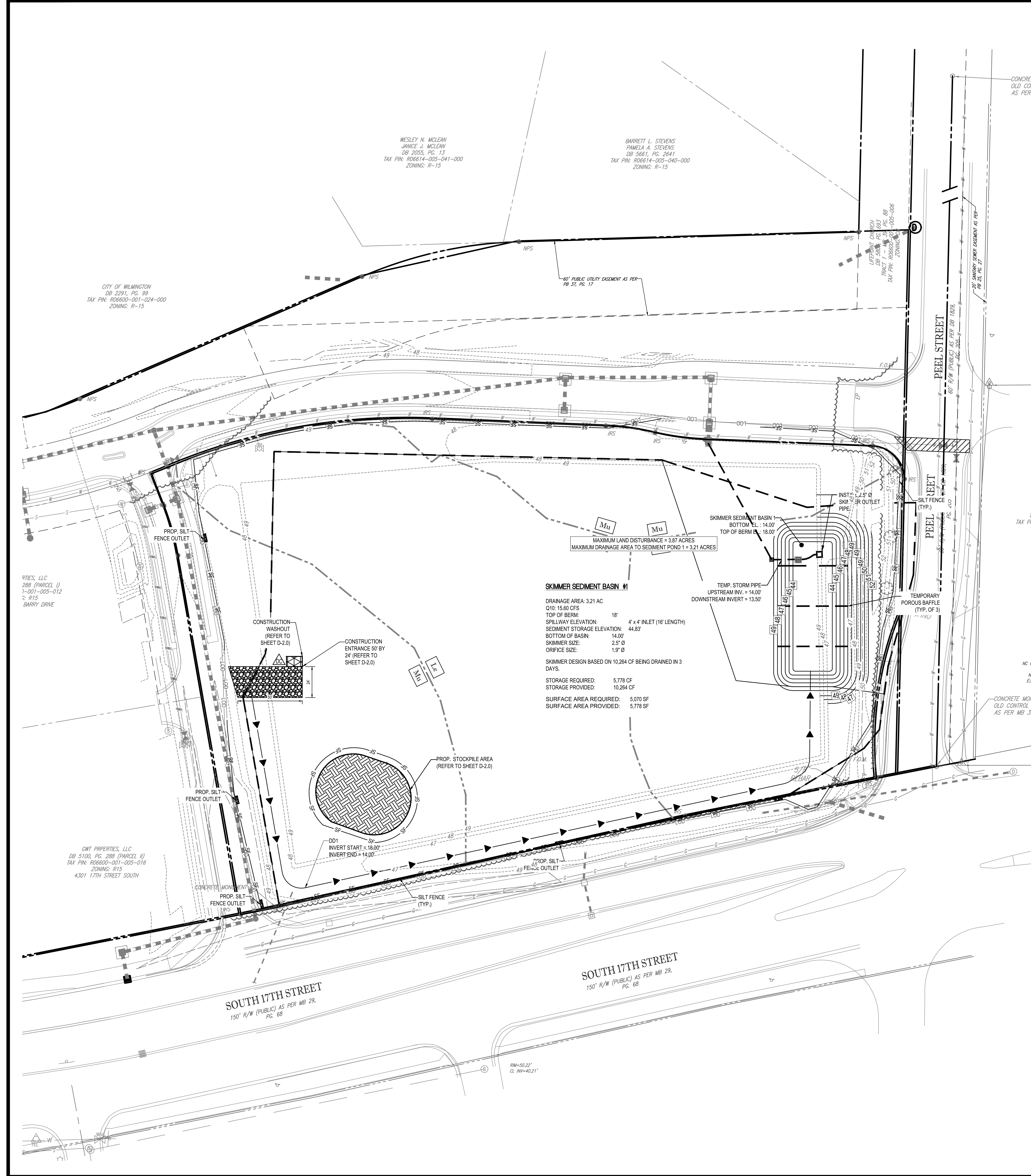
4011 WESTCHASE BLVD., SUITE 290
 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
 NC@BohlerEng.com

NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER
 PAUL L. BOYD
 LICENSE NO. 040241
 11-29-16

SHEET TITLE:
LANDSCAPE PLAN

SHEET NUMBER:
C-7.0





EROSION CONTROL LEGEND

PROPOSED NOTE	TYPICAL NOTE TEXT
	SILT FENCE
	TEMPORARY DIVERSION DIKE
	LIMITS OF DISTURBANCE
	TEMPORARY CONTOUR
	CONST. ENTRANCE
	TEMPORARY BAFFLE
	TEMPORARY SOIL STOCKPILE
	CONCRETE WASHOUT
	DUST CONTROL
	SILT FENCE OUTLET
	SLOPE DRAIN DIKE
	CHECK DAM
	TREE PROTECTION FENCE
	SOILS BOUNDARY
Lc	LEON SAND (0% - 2% SLOPES)
Mu	MURVILLE FINE SAND (0% - 2% SLOPES)
Rm	RIMINI SAND (1% - 6% SLOPES)

STABILIZATION TIMEFRAMES

(Effective Aug. 3, 2011)

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

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates
 Mountains—Above 2500 feet: Feb. 15 - May 15
 Below 2500 feet: Feb. 1 - May 1
 Piedmont—Jan. 1 - May 1
 Coastal Plain—Dec. 1 - Apr. 15

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.

Seeding mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates
 Mountains—May 15 - Aug. 15
 Piedmont—May 1 - Aug. 15
 Coastal Plain—Apr. 15 - Aug. 15

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.

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding dates
 Mountains—Aug. 15 - Dec. 15
 Coastal Plain and Piedmont—Aug. 15 - Dec. 30

Soil amendments
 Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 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
 Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

NCDENR EROSION AND SEDIMENT CONTROL NOTES

- ON-SITE BURIAL PITS ARE NOT ALLOWED AT ANY LOCATION WITHIN THE CITY OF EDEN.
- ANY GRADING BEYOND THE LIMITS OF CONSTRUCTION SHOWN ON THIS PLAN IS SUBJECT TO A FINE.
- GRADING 1 ACRE OR MORE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION AND SUBJECT TO A FINE.
- GROUND STABILIZATION MUST OCCUR WITHIN 7 DAYS ON PERIMETER AREAS AND SLOPES GREATER THAN 3:1, AND GROUND STABILIZATION MUST OCCUR WITHIN 14 DAYS ON OTHER AREAS.
- BASEIN OUTLET STRUCTURES WITH DRAINAGE AREAS EQUAL OR GREATER THAN ONE ACRE MUST WITHDRAW WATER FROM THE SURFACE.
- ADDITIONAL MEASURES TO CONTROL EROSION AND SEDIMENT MAY BE REQUIRED BY THE NCDENR EROSION CONTROL INSPECTOR.
- ALL ELEVATIONS ARE IN REFERENCE TO THE SURVEYORS BENCHMARK WHICH MUST BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO GROUND BREAKING.
- ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE N.C. EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, U.S. DEPT. OF AGRICULTURE, AND ANY APPLICABLE LOCAL LAWS AND CODES.
- PERMANENT CUT AND FILL SLOPES PLACED ON A SUITABLE FOUNDATION SHOULD BE CONSTRUCTED AT 2:1 (HORIZONTAL TO VERTICAL) OR FLATTER. PERMANENT SLOPES OF 3:1 SHOULD BE CONSTRUCTED WHERE MOUING IS DESIRABLE AND AS INDICATED. IF FILL MATERIAL IS BROUGHT ONTO THE PROPERTY OR IF WASTE MATERIAL IS HAULED FROM THE PROPERTY THEN THE CONTRACTOR SHALL DISCLOSE THE LOCATION OF ANY ON-SITE AND/OR OFF-SITE BARRROW LOCATION AND/OR WASTE BURIAL LOCATION TO THE EROSION CONTROL INSPECTOR.
- LIMITS OF CLEARING SHOWN ARE BASED ON CUT AND FILL SLOPES OR OTHER GRADING REQUIREMENTS.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED PRIOR TO GRADING OPERATIONS. NO DEVICE MAY BE REMOVED WITHOUT APPROVAL OF EROSION CONTROL COORDINATOR.
- CONTRACTOR SHALL BLEND NEW EARTHWORK SMOOTHLY WITH EXISTING CONTOURS.
- ALL DISTANCES ARE HORIZONTAL GROUND.
- ANCHOR SILT FENCE WITH COMPACTED BACKFILL ON TREE PROTECTION ZONES, DO NOT BURY.
- ALL EROSION CONTROL DEVICES SHOULD BE CHECKED PERIODICALLY AND AFTER EVERY MAJOR STORM EVENT. IF ANY FAILURES ARE FOUND, THEY SHOULD BE REPAIRED AS SOON AS POSSIBLE.
- ANY ASSOCIATED DEMOLITION PERMITS AND METHODS OF DEMOLITION ARE TO BE OBTAINED AND ARRANGED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- SEDIMENT TRAPS AND BASINS NEED TO BE STABILIZED IMMEDIATELY AFTER INSTALLATION.
- STONE OUTLETS SHOULD BE INSTALLED AT LOW POINTS OF THE SILT FENCING ACTIVELY ON FIELD CONDITIONS.
- EFFECTIVE OCTOBER 1, 2010, PERSONS RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS BEING FOLLOWED. SELF-INSPECTION REPORTS ARE REQUIRED. A SAMPLE SELF-INSPECTION REPORT, AS WELL AS DETAILS OF THE SELF-INSPECTION PROGRAM, CAN BE FOUND ON THE LAND QUALITY WEBSITE (HTTP://PORTAL.NCDENR.GOV/WEB/EROSION). IF YOU HAVE QUESTIONS OF THE SELF-INSPECTION PROGRAM, PLEASE CONTACT (877) 63-8748.
- A LAND DISTURBANCE PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY DISTURBANCE ON THE SITE.
- LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. ALL EXISTING UTILITY LOCATIONS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- SITE GRADING AND EXCAVATION MUST BE PERFORMED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT REFERENCED IN THIS PLAN SET. EXCAVATION AND EARTH MOVING OPERATIONS MUST BE PERFORMED UNDER THE SUPERVISION OF THE OWNER'S GEOTECHNICAL ENGINEER.
- FOOTING EXCAVATIONS SHALL BE CONTINUOUSLY DEWATERED DURING CONSTRUCTION TO PREVENT SETTLEMENT AND SEDIMENT DEPOSIT.
- ALL TEMPORARY DIVERSIONS MUST BE INSTALLED WITH POSITIVE DRAINAGE AND SHALL OPPOSE EXISTING GRADE WHEN NECESSARY TO PROVIDE A MINIMUM OF 0.3% LONGITUDINAL SLOPE.
- ALL ADJACENT ROADWAYS TO THE SITE ARE TO BE SWEEPED (NOT WASHED) AT THE END OF EACH WORK DAY TO REMOVE SEDIMENT FROM THE ROAD SURFACE.
- ALL EROSION CONTROL MEASURES MUST BE INSPECTED AND PROPERLY MAINTAINED AT THE END OF EACH WEEK AND AFTER EVERY RAINFALL EVENT.
- INSTALL ADDITIONAL EROSION CONTROL MEASURES AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- CONTRACTOR SHALL PERFORM PRACTICES AND PROCEDURES WHICH MINIMIZE AND PREVENT AIRBORNE DUST OR OTHER PARTICLES FROM OCCURRING. PARTICLES WHICH CAN BE PICKED UP AND CARRIED BY WIND SHOULD BE PROTECTED WITH A TEMPORARY COVER OR KEPT UNDER CONTROL WITH WATER TO PREVENT PARTICLES FROM BECOMING AIRBORNE AND FROM EXISTING THE SITE. PERIMETER WATER TRUCKS OR OTHER DUST CONTROL AGENTS SHALL BE USED AS NEEDED DURING CONSTRUCTION TO MINIMIZE DUST GENERATE ON THE SITE. DUST CONTROL MUST BE PROVIDED BY THE CONTRACTOR TO A DEGREE THAT IS IN COMPLIANCE WITH FEDERAL, LOCAL, AND STATE DUST CONTROL REGULATIONS. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

PHASE I EROSION CONTROL CONSTRUCTION SEQUENCE:

- POST REQUIRED DOCUMENTS NEAR THE PLANNED CONSTRUCTION ENTRANCE AND WITHIN EASY ACCESS TO THE GENERAL PUBLIC.
- STAKE/AS THE LOD (WHERE STAKING IS NOT POSSIBLE/PRACTICAL, THE LOD MUST BE CONSPICUOUSLY AND PROMINENTLY MARKED TO DENOTE THE BOUNDARY). LOD MUST REMAIN CONSPICUOUSLY MARKED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT.
- INSTALL SILT FENCE. CLEAR ONLY THE MINIMUM AREA ABSOLUTELY NECESSARY TO INSTALL THESE PERIMETER CONTROL BMS.
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND SET THE PROJECT OFFICE TRAILER.
- CONSTRUCT SKIMMER SEDIMENT BASIN, STABILIZE SIDE SLOPES.
- CONSTRUCT AND STABILIZE DIVERSION DRAINING TO SKIMMER SEDIMENT BASIN.

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NOT APPROVED FOR CONSTRUCTION

PROJECT No.: NCR151031
 DRAWN BY: AWA
 CHECKED BY: 4/25/16
 DATE: 4/25/16
 SCALE: 1"=40'
 CAD I.D.:

PROPOSED GROCERY

FOR

LIDL US OPERATIONS, LLC

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

BOHLER ENGINEERING NC, PLLC
 NCELS P-1122

4011 WESTCHASE BLVD., SUITE 290
 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
 NC@BohlerEng.com

BOHLER ENGINEERING NC, PLLC

SITE INVESTIGATION, ENGINEERING, ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, SUSTAINABLE DESIGN, PROGRAM MANAGER, TRANSPORTATION SERVICES

LAND SURVEYING, PROGRAM MANAGER, TRANSPORTATION SERVICES

NORTHERN VIRGINIA

PHILADELPHIA, PA

PHOENIX, AZ

PORTLAND, ME

REHOBOTH BEACH, DE

ROCKVILLE, MD

SOUTH CAROLINA

SOUTH FLORIDA

CHARLOTTE, NC

PALESTINE, TN

RALEIGH, NC

ROCKVILLE, MD

ROCKVILLE, MD

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REV	DATE	COMMENT	BY

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 DRAWN BY: AWA
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 SCALE: 1"=40'
 CAD I.D.:

PROPOSED GROCERY

FOR

LIDL US OPERATIONS, LLC

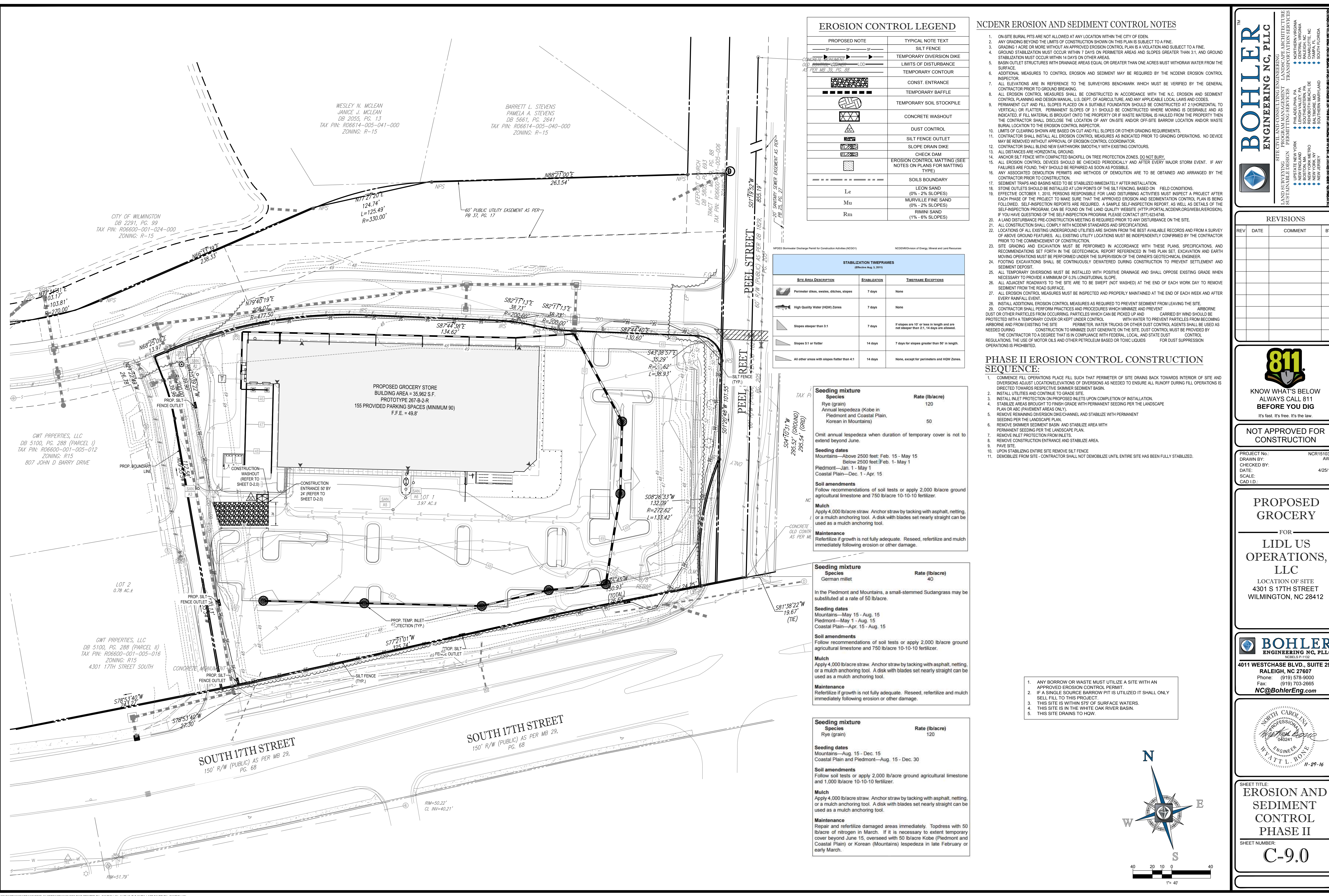
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 Phone: (919) 578-9000
 Fax: (919) 703-2665
 NC@BohlerEng.com

SHEET TITLE:
EROSION AND SEDIMENT CONTROL PHASE I

SHEET NUMBER:
C-8.0



EROSION CONTROL LEGEND

PROPOSED NOTE	TYPICAL NOTE TEXT
---	SILT FENCE
---	TEMPORARY DIVERSION DIKE
---	LIMITS OF DISTURBANCE
---	TEMPORARY CONTOUR
---	CONST. ENTRANCE
---	TEMPORARY BAFFLE
---	TEMPORARY SOIL STOCKPILE
---	CONCRETE WASHOUT
---	DUST CONTROL
---	SILT FENCE OUTLET
---	SLOPE DRAIN DIKE
---	CHECK DAM
---	EROSION CONTROL MATTING (SEE NOTES ON PLANS FOR MATTING TYPE)
---	SOILS BOUNDARY
Le	LEON SAND (0% - 2% SLOPES)
Mu	MURVILLE FINE SAND (0% - 2% SLOPES)
Rm	RIMINI SAND (1% - 6% SLOPES)

- ### NCDENR EROSION AND SEDIMENT CONTROL NOTES
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 - EFFECTIVE OCTOBER 1, 2016, PERSONS RESPONSIBLE FOR LAND DISTURBING ACTIVITIES MUST INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENT CONTROL PLAN IS BEING FOLLOWED. SELF-INSPECTION REPORTS ARE REQUIRED. A SAMPLE SELF-INSPECTION REPORT, AS WELL AS DETAILS OF THE SELF-INSPECTION PROGRAM, CAN BE FOUND ON THE LAND QUALITY WEBSITE (HTTP://PORTAL.NCDENR.ORG/WEB/EROSION). IF YOU HAVE QUESTIONS OF THE SELF-INSPECTION PROGRAM PLEASE CONTACT (877) 628-6748.
 - A LAND DISTURBANCE PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO ANY DISTURBANCE ON THE SITE.
 - ALL CONSTRUCTION SHALL COMPLY WITH NCDENR STANDARDS AND SPECIFICATIONS.
 - LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN FROM THE BEST AVAILABLE RECORDS AND FROM A SURVEY OF ABOVE GROUND FEATURES. ALL EXISTING UTILITY LOCATIONS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
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STABILIZATION TIMEFRAMES

(Effective Aug. 3, 2011)

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (H2O) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and H2O Zones.

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates
 Mountains—Above 2500 feet: Feb. 15 - May 15
 Below 2500 feet: Feb. 1 - May 1
 Piedmont—Jan. 1 - May 1
 Coastal Plain—Dec. 1 - Apr. 15

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.

Seeding mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates
 Mountains—May 15 - Aug. 15
 Piedmont—May 1 - Aug. 15
 Coastal Plain—Apr. 15 - Aug. 15

Soil amendments
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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.

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding dates
 Mountains—Aug. 15 - Dec. 15
 Coastal Plain and Piedmont—Aug. 15 - Dec. 30

Soil amendments
 Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 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
 Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

BOHLER ENGINEERING NC, PLLC

1011 WESTCHASE BLVD., SUITE 290
 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
 NC@BohlerEng.com

REGISTERED PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 NO. 40324

REVISIONS

REV	DATE	COMMENT	BY

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NOT APPROVED FOR CONSTRUCTION

PROJECT No.: NCR151031
 DRAWN BY: AWA
 CHECKED BY: 4/25/16
 DATE: 4/25/16
 SCALE:
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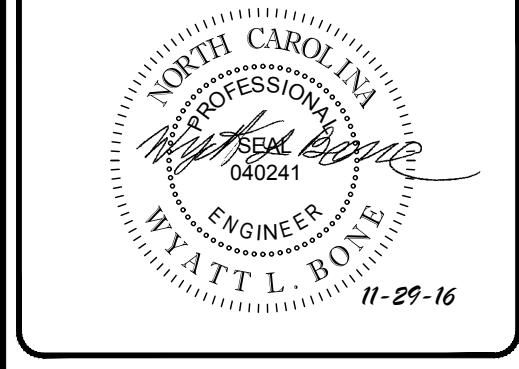
PROPOSED GROCERY

FOR
LIDL US OPERATIONS, LLC

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

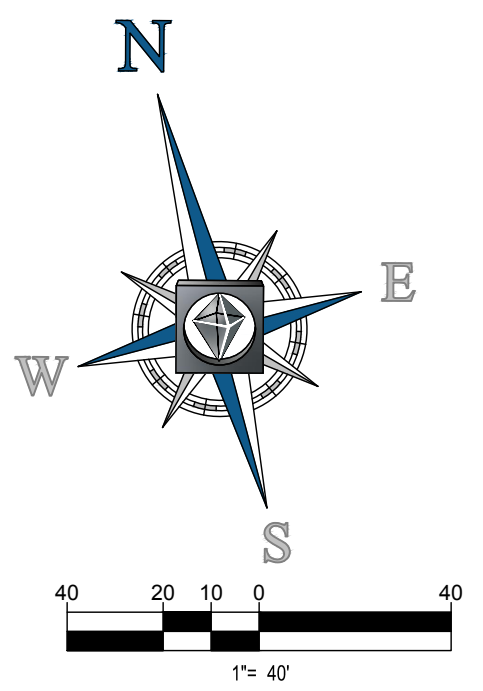
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SHEET TITLE:
EROSION AND SEDIMENT CONTROL PHASE II

SHEET NUMBER:
C-9.0



REVISIONS			
REV	DATE	COMMENT	BY

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PROJECT No.:	NCR151031
DRAWN BY:	AWA
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DATE:	4/25/16
SCALE:	1" = 40'
CAD I.D.:	SSD

PROPOSED GROCERY

FOR

LIDL US OPERATIONS, LLC

LOCATION OF SITE
 4301 S 17TH STREET
 WILMINGTON, NC 28412

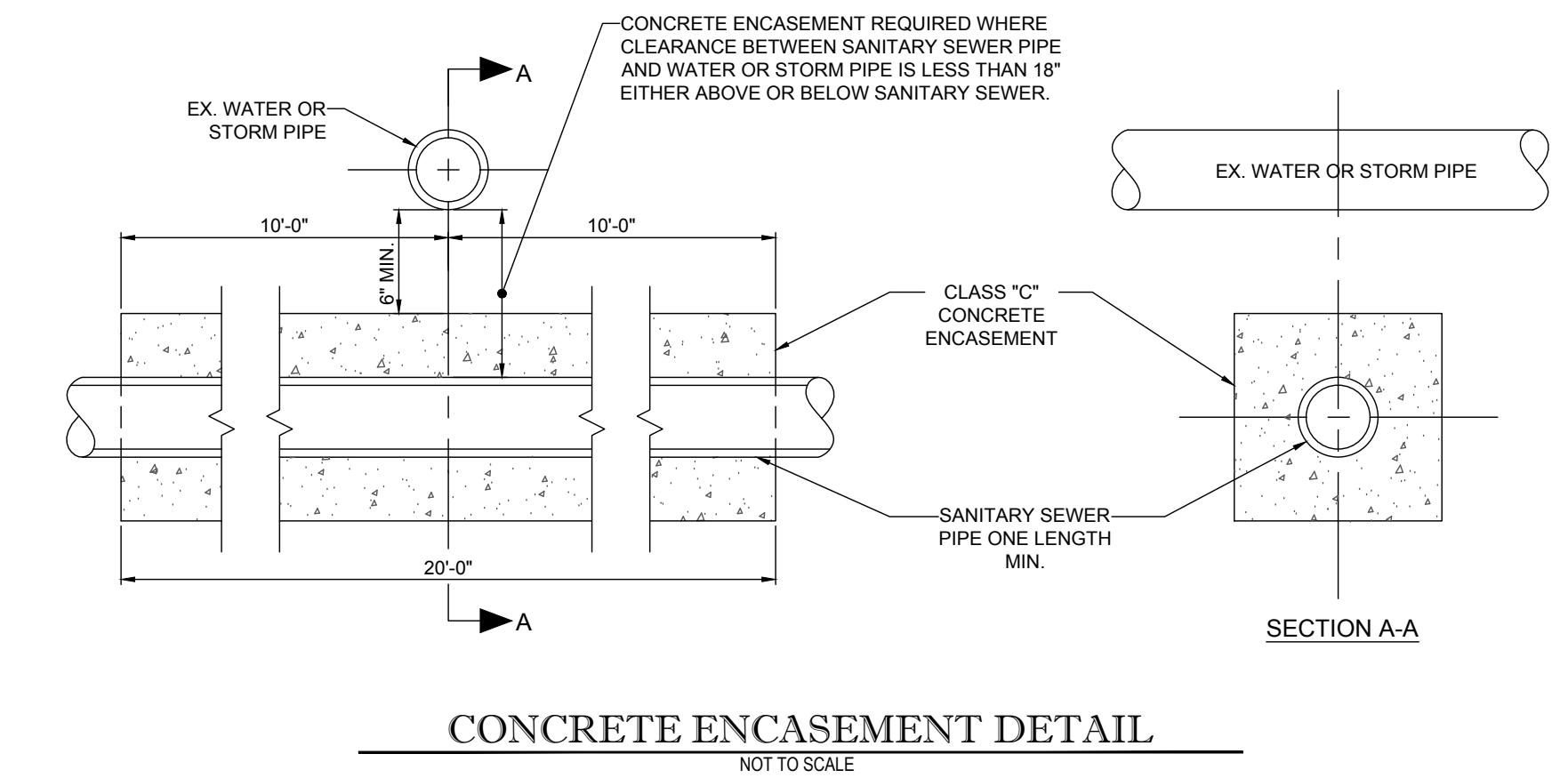
BOHLER ENGINEERING NC, PLLC

4011 WESTCHASE BLVD., SUITE 290
 RALEIGH, NC 27607
 Phone: (919) 578-9000
 Fax: (919) 703-2665
 NC@BohlerEng.com

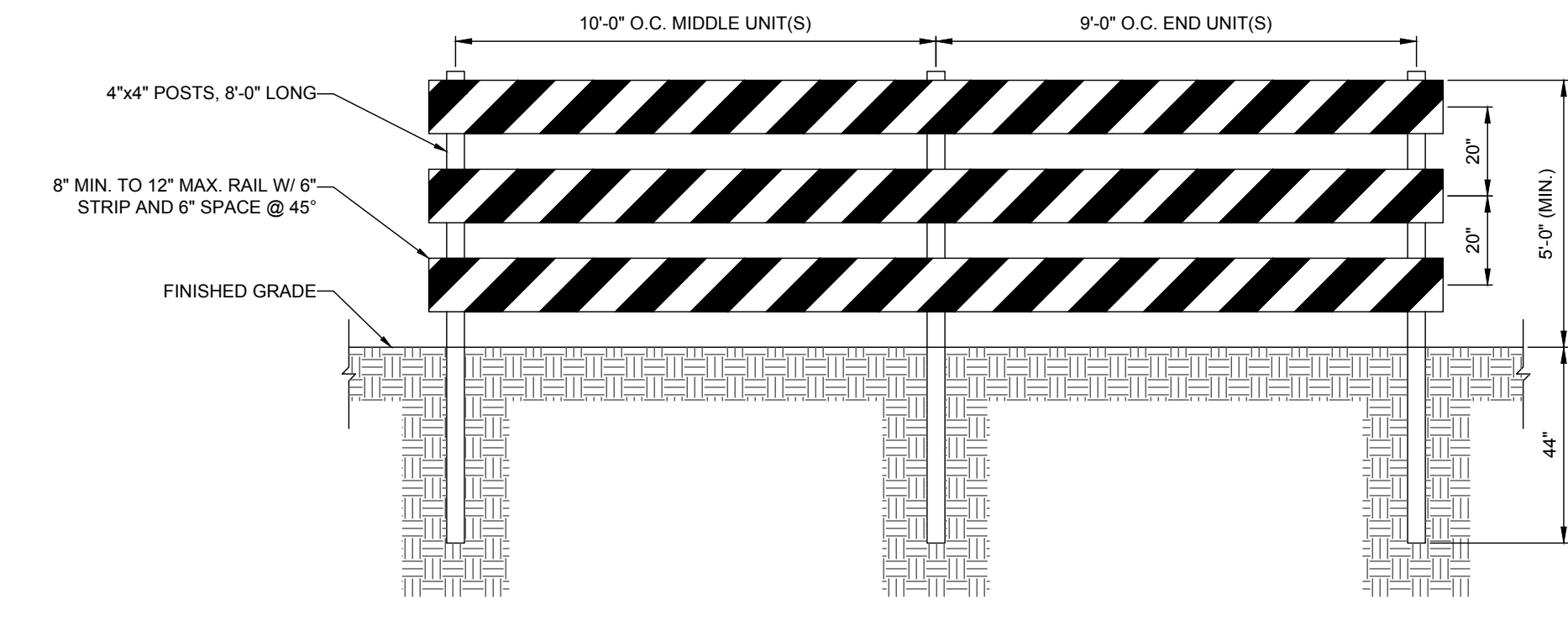
PAUL L. BOYD
 ENGINEER
 NORTH CAROLINA PROFESSIONAL ENGINEER
 NO. 040241
 11-29-16

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET NUMBER:
D-1.1



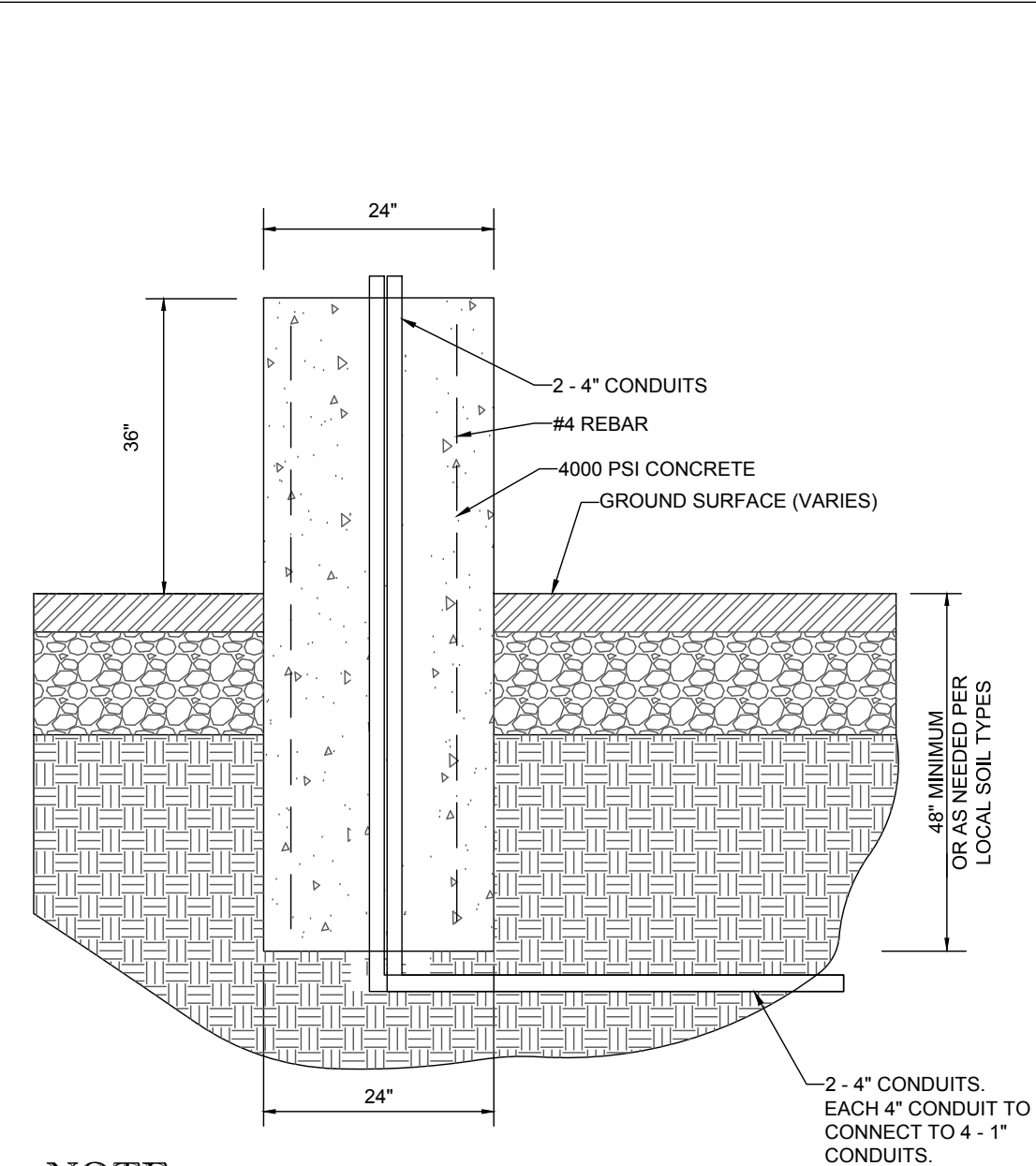
CONCRETE ENCASEMENT DETAIL
 NOT TO SCALE



TRAFFIC BARRICADE DETAIL
 NOT TO SCALE

NOTES:

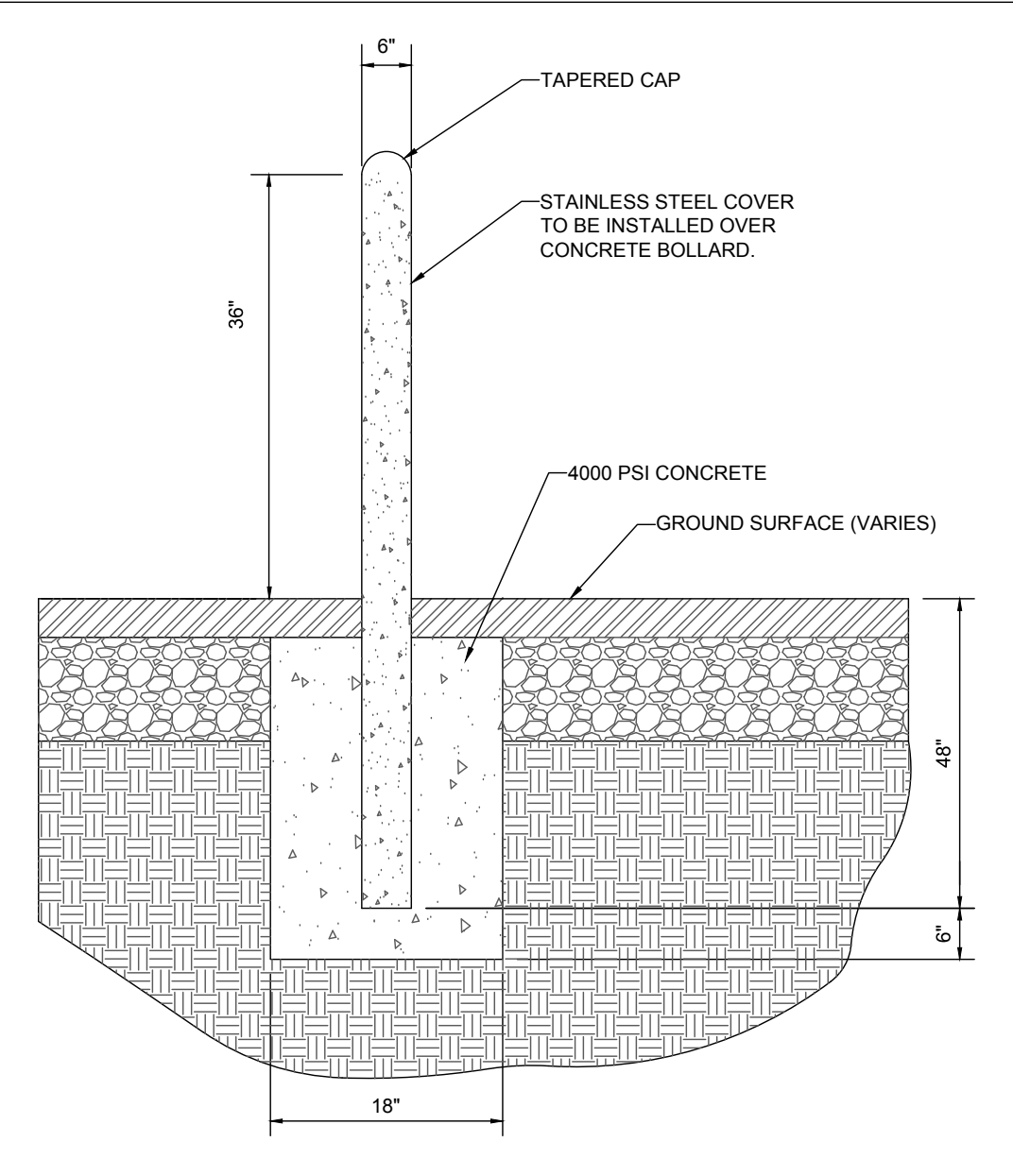
- SEE PLAN VIEW FOR TRAFFIC BARRIER LOCATION(S).
- POSTS AND PLANKS SHALL BE PRESSURE TREATED LUMBER.
- PLANKS SHALL BE PAINTED COMPLETELY WHITE. POSTS SHALL BE PAINTED WHITE ON ALL SIDES TO WITHIN SIX INCHES (6 IN.) OF THE GROUND LEVEL.
- GOOD QUALITY OIL BASE EXTERIOR GRADE PAINT MUST BE USED. SIX INCH (6 IN.) HIGH INTENSITY REFLECTIVE ORANGE AND WHITE STRIPE TAPE ON ONE SIDE FOR THE FULL LENGTH OF THE BARRICADE.
- EACH PLANK SHALL BE SECURED TO EACH POST WITH (2) 1/2 IN. X 6 1/2 IN. CARRIAGE BOLTS OR WITH (2) 1/2 IN. X 4 IN. LAG SCREWS WITH WASHERS. BOLTS OR SCREWS ARE TO BE PLACED TWO INCHES (2 IN.) FROM EDGE OF PLANKS.
- WHERE NECESSARY FOR SAFETY OF PEDESTRIAN TRAFFIC, A FULL EXTENSION OF THE BARRICADE MAY BE REQUIRED TO THE LIMITS OF THE RIGHT-OF-WAY.
- WHERE PROVISION MUST BE MADE FOR ACCESS OF EQUIPMENT AND AUTHORIZED VEHICLES, LOCKABLE GATES MAY BE PROVIDED IN ONE SECTION OF THE BARRICADE.



3' TALL CONCRETE LIGHT POLE BASE
 NOT TO SCALE

NOTE:

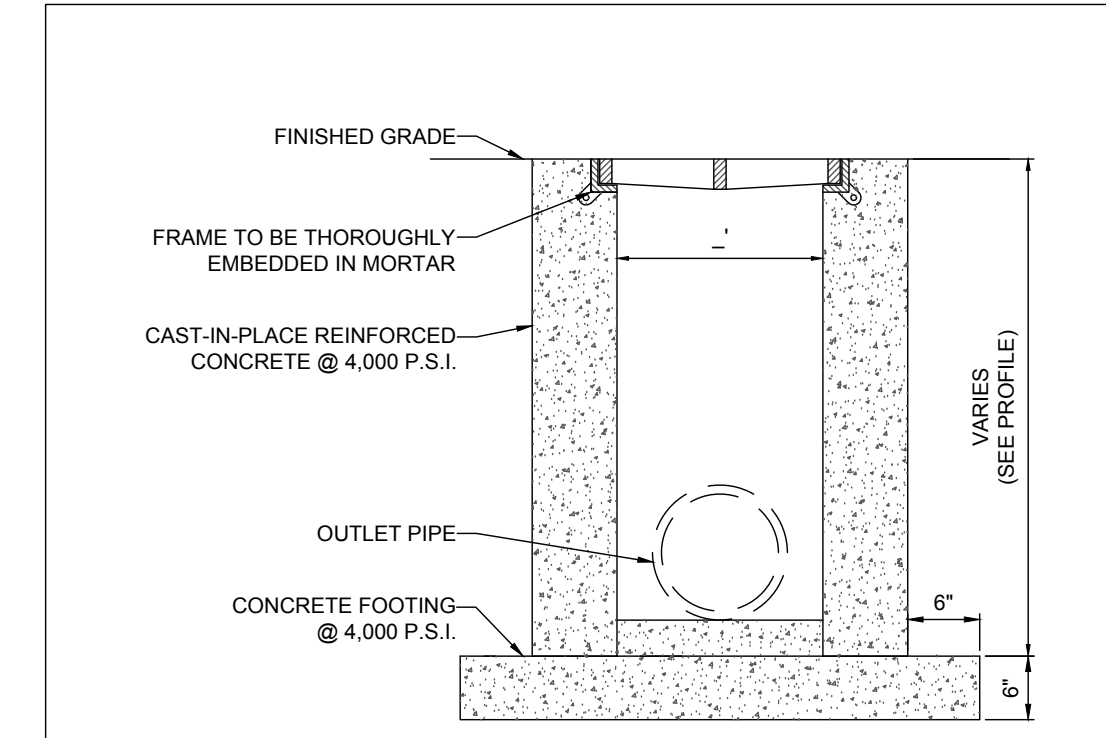
THIS DETAIL SERVES AS A GUIDELINE ONLY. STRUCTURAL ENGINEER TO DESIGN AND PROVIDE DOCUMENTATION FOR FINAL LIGHT POLE BASE DESIGN.



6" STAINLESS STEEL BOLLARD
 NOT TO SCALE

NOTE:

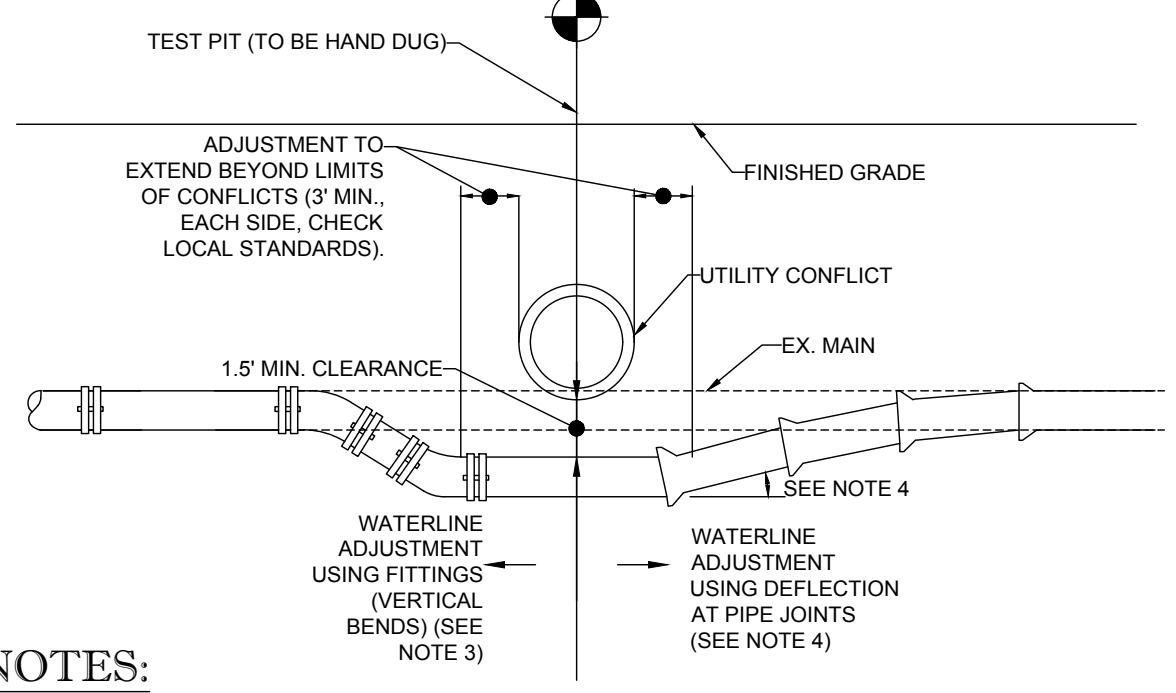
TO BE INSTALLED IN FRONT OF THE STORE WHERE SPECIFIED



TRENCH DRAIN DETAIL
 NOT TO SCALE

NOTES:

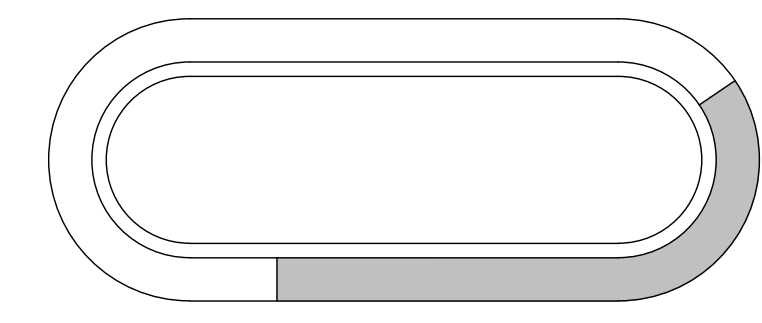
- SCHEMATIC ONLY. FINAL DESIGN TO PROVIDE H-20 VEHICULAR LOADING.
- SEE PLAN VIEW AND PROFILES FOR GRATE AND TRENCH INVERT ELEVATIONS.



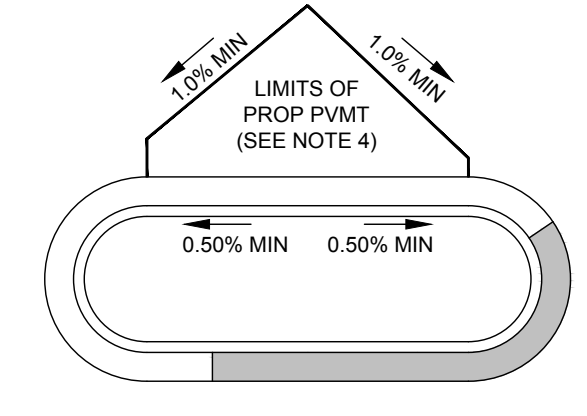
WATERLINE ADJUSTMENT DETAIL
 NOT TO SCALE

NOTES:

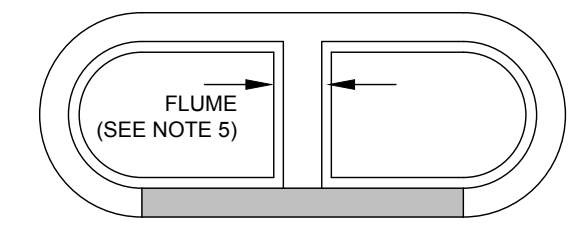
- CONTRACTOR TO COORDINATE WATERLINE ADJUSTMENT WITH APPROPRIATE INSPECTOR, BASED UPON LOCAL JURISDICTIONAL REQUIREMENTS AND FIELD CONDITIONS.
- CONTRACTOR TO HAND DIG TEST PIT AT ANTICIPATED CROSSING LOCATION TO DETERMINE EXISTING WATERLINE DEPTH, TOTAL WATERLINE DEFLECTION REQUIRED, AND BEST METHOD FOR WATERLINE ADJUSTMENT.
- VERTICAL BENDS (INSTALLED PER LOCAL STANDARDS) AS REQUIRED.
- PIPE DEFLECTION AT JOINTS (PER LOCAL STANDARDS).



EXAMPLE ONE
 NOT TO SCALE



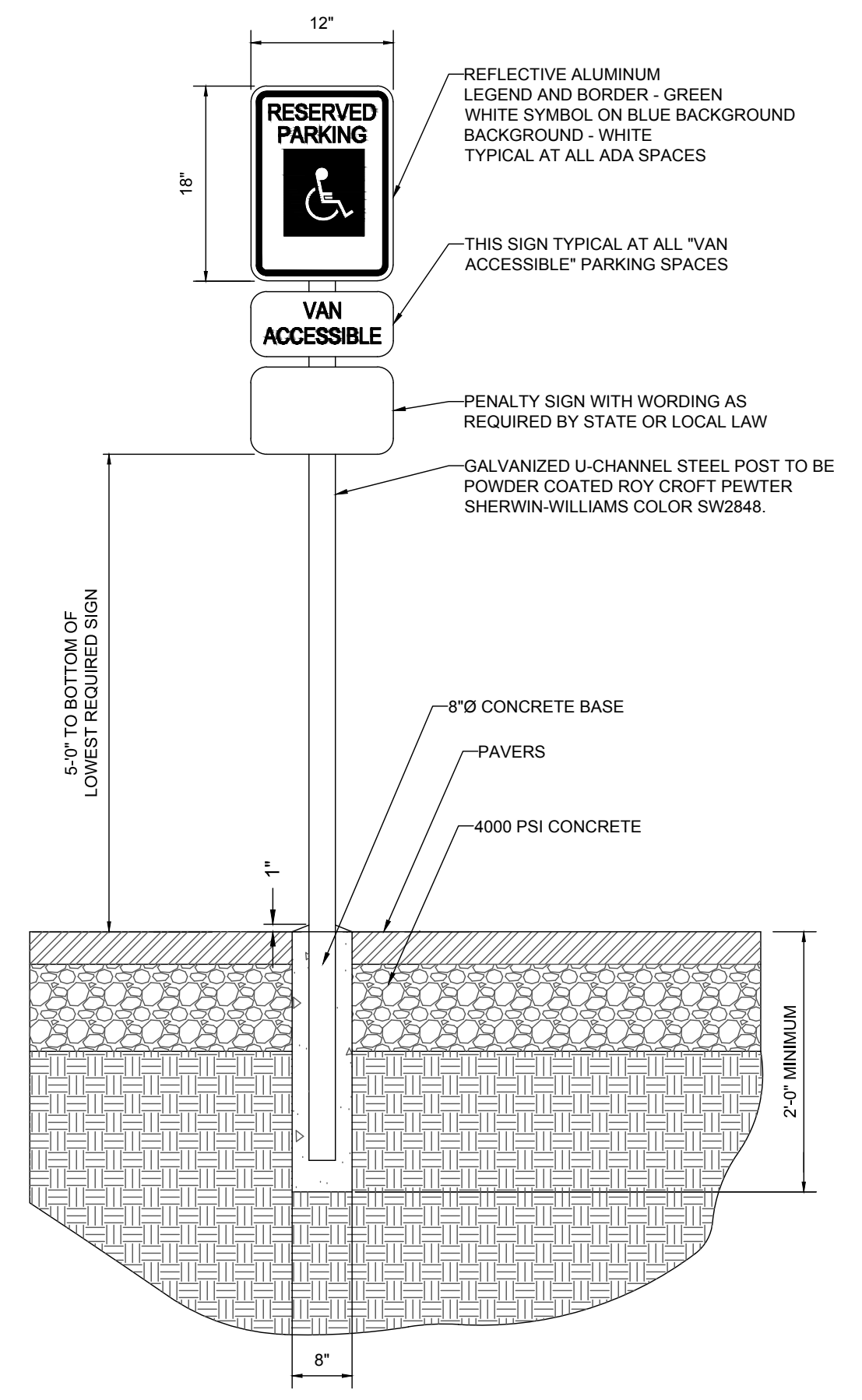
EXAMPLE TWO
 NOT TO SCALE



EXAMPLE THREE
 NOT TO SCALE

NOTES:

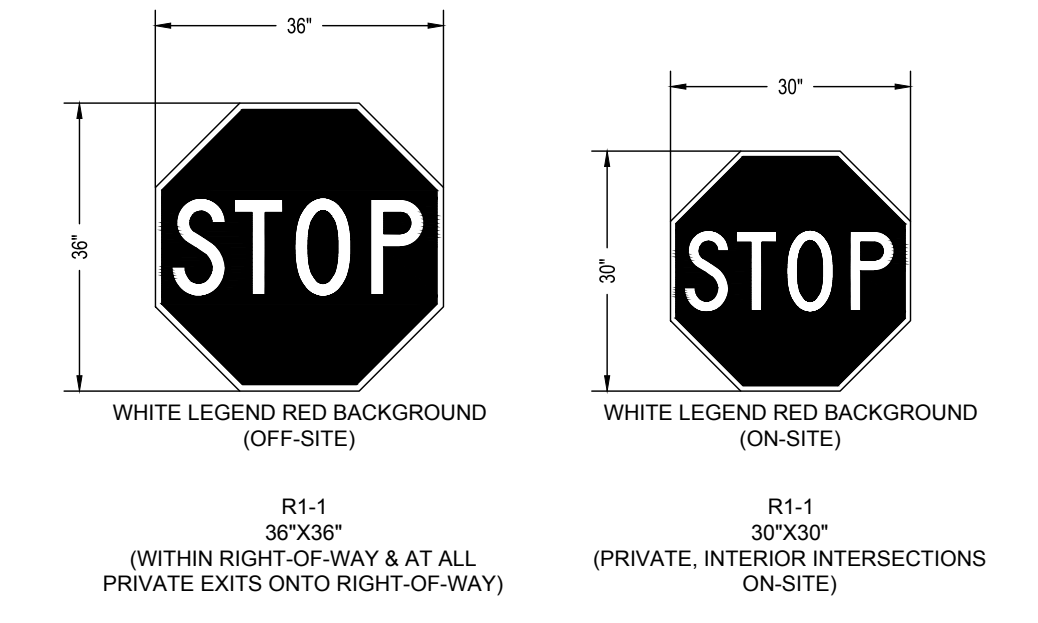
- CONTRACTOR TO INSTALL CURB AND GUTTER AT ELEVATION OF EXISTING PAVEMENT (ELEVATION AT EDGE OF GUTTER PAN MATCHES ELEVATION AT EXISTING PAVEMENT, UNLESS PLANS AND/OR SCHEMATICS INDICATE DIFFERENTLY).
- CONTRACTOR TO PROVIDE GUTTER PANS (COLLECTOR/SPILL) PER GRADING PLAN. SHADED GUTTER PAN REPRESENTS FULL SPILL SECTION, NON-SHADED IS COLLECTOR. CONTRACTOR TO PROVIDE 3 FOOT TRANSITIONS BETWEEN SPILL AND COLLECTOR SECTIONS.
- PLAN INTENT IS TO PROVIDE A MINIMUM SLOPE OF 0.50% ALONG COLLECTOR CURB. IF FIELD CONDITIONS AND/OR PLAN REPRESENTATION DOES NOT PROVIDE MINIMUM SLOPE REQUIREMENTS, CONTRACTOR IS TO CONTACT ENGINEER PRIOR TO POURING CURB AND GUTTER. BOHLER ENGINEERING SHALL BE HELD HARMLESS FOR ANY CURB AND GUTTER POURED THAT DOES NOT MEET MINIMUM REQUIREMENTS.
- IN THOSE SITUATIONS WHERE RE-GRADING OF PARKING AND PAVEMENT REMOVAL IS NECESSARY (SEE EXAMPLE 2), THE CONTRACTOR IS TO VERIFY THAT THE RESULTANT GRADIENT AT THE HIGH SIDE OF THE ISLAND PROVIDES 1% PAVEMENT SLOPE, PER PLAN INTENT.
- IN ISLANDS WHERE FLUMES ARE INDICATED, THE CONTRACTOR SHALL PROVIDE A FLAT BOTTOMED FLUME AT THE SPECIFIED WIDTH. MINIMUM FLUME SLOPE SHALL BE 0.50%.



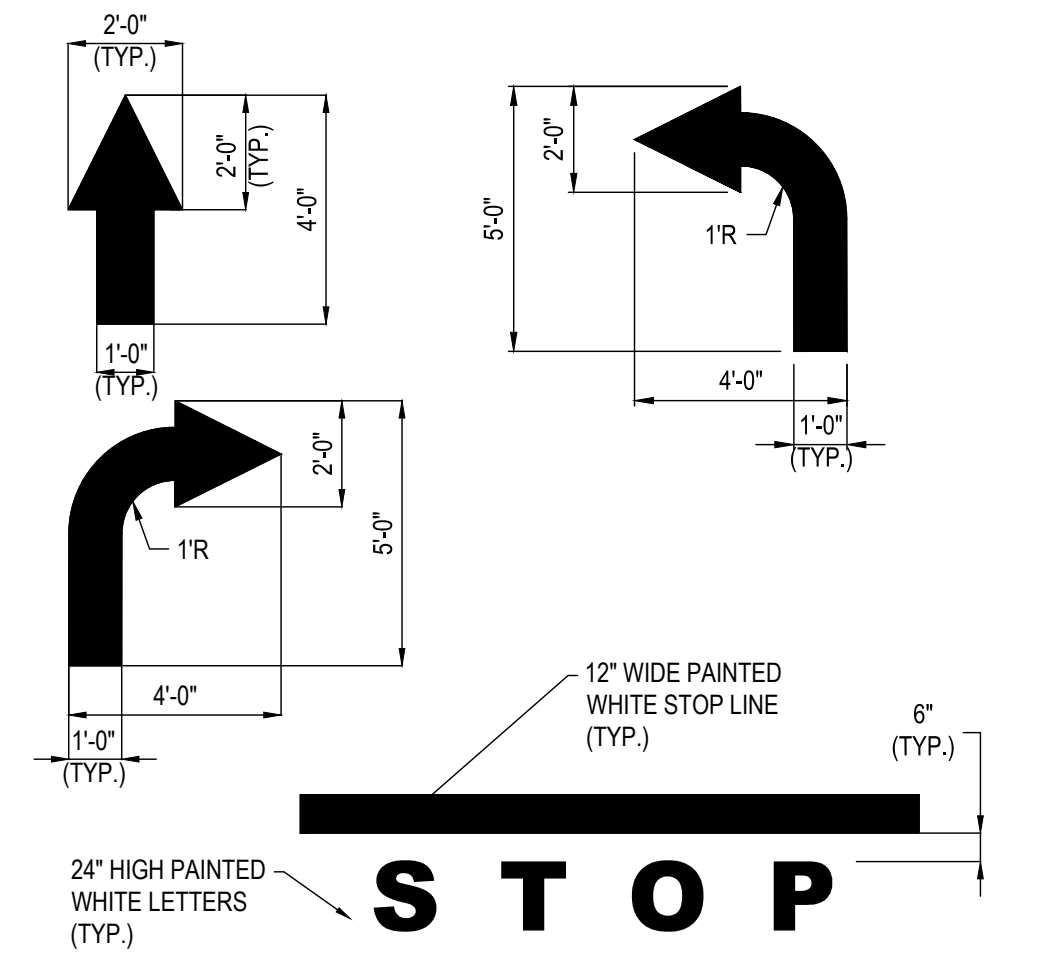
ADA PARKING SIGN DETAIL
 NOT TO SCALE

NOTE:

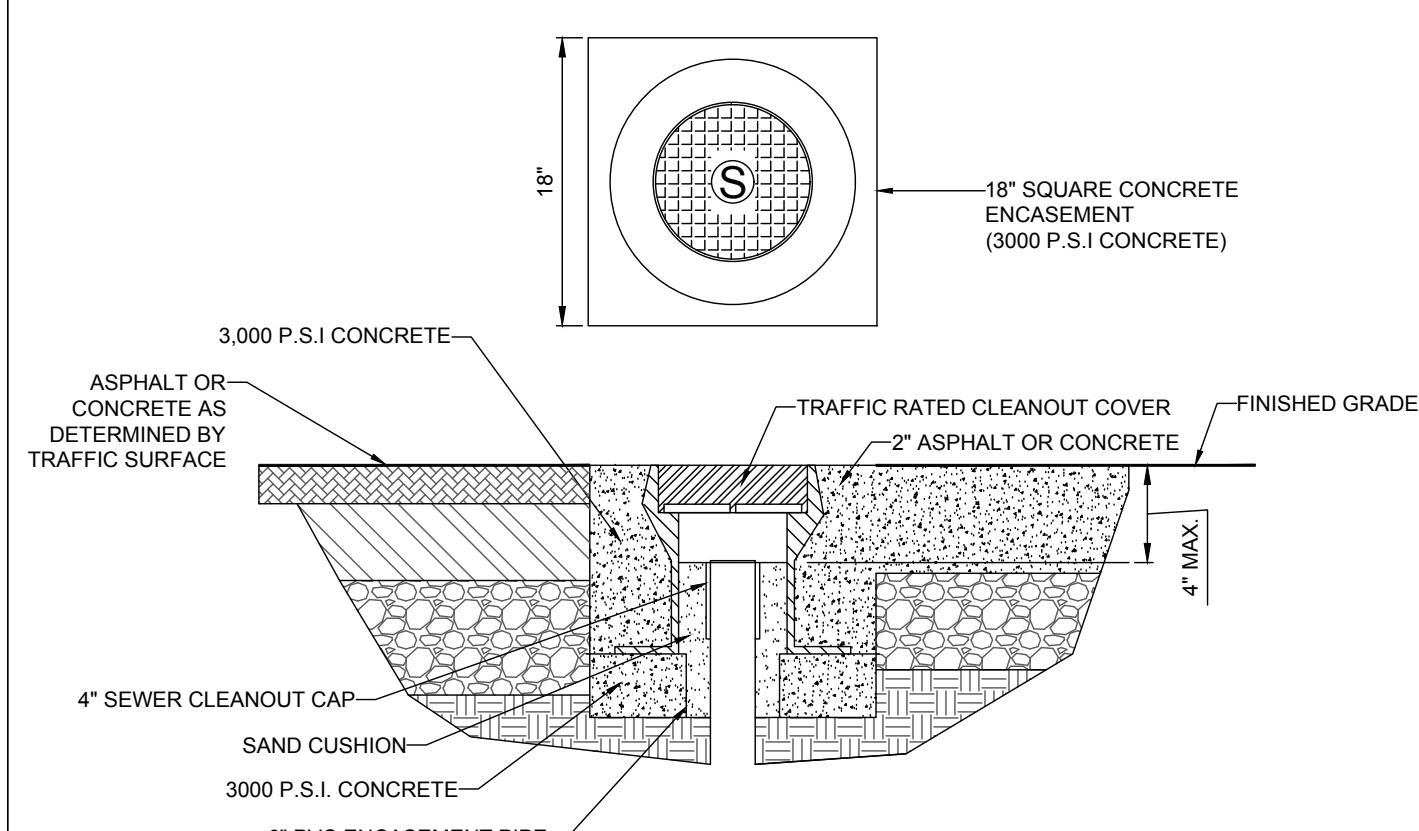
ONE AT EACH ADA SPACE BEHIND 6" BOLLARD, WHERE ADA SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST WITH SIGNS MOUNTED BOTH ON SIDES.



"STOP" SIGN
 NOT TO SCALE



STOP SIGNAGE AND MARKING
 NOT TO SCALE



TRAFFIC RATED CLEANOUT DETAIL
 NOT TO SCALE

