



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.
1. THE FOLLOWING DOCUMENTS ARE INCORPORATED BY REFERENCE AS PART OF THIS SITE PLAN:
- SURVEY: 'ALTAACSM LAND TITLE SURVEY' FOR CHICK-FILA PREPARED BY CONTROL POINT ASSOCIATES, INC., SOUTHBOROUGH, MA, SCALE: 1"=20', DATED 8/4/14, REVISED 4/24/15, OR LATEST EDITION, 3 SHEETS.
- GEOTECH: 'GEOTECHNICAL INVESTIGATION REPORT' PREPARED FOR PROPOSED CHICK-FILA #03545 PREPARED BY HALEY ALDRICH DATED FEBRUARY 25, 2015 OR LATEST EDITION.
- ENVIRONMENTAL: 'ASTM PHASE II ENVIRONMENTAL SITE ASSESSMENT' PREPARED FOR THE CAPE COD MALL, PREPARED BY BR CHARD ELLIS DATED JANUARY 27, 2011 OR LATEST EDITION.
- ENVIRONMENTAL: 'ASTM PHASE II ENVIRONMENTAL SITE ASSESSMENT' PREPARED FOR THE CAPE COD MALL PREPARED BY VHD DATED APRIL 5, 2011 OR LATEST EDITION.
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST VERIFY THAT HESHE HAS THE LATEST EDITION OF THE DOCUMENTS REFERENCED ABOVE. THIS IS CONTRACTOR'S RESPONSIBILITY.
2. 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. § 14151 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.
3. 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 AUTHORITIES 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.
4. THE OWNER/CONTRACTOR MUST BE FAMILIAR WITH AND RESPONSIBLE FOR THE PROCUREMENT OF AND ALL CERTIFICATIONS REQUIRED FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
5. 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.
6. 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 THESE 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.
7. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO BOHLER ENGINEERING BY THE OWNER AND OTHERS PRIOR TO THE TIME OF PLAN PREPARATION. CONTRACTOR MUST FIELD VERIFY EXISTING CONDITIONS AND NOTIFY BOHLER ENGINEERING, 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.
8. ALL DIMENSIONS SHOWN ON THESE 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 ANY CONSTRUCTION, CONTRACTOR MUST NOTIFY ENGINEER IN WRITING IMMEDIATELY IF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
9. 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.
10. 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 FIRE SUPPRESSION PLAN, (WHERE APPLICABLE). CONTRACTOR MUST IMMEDIATELY NOTIFY OWNER, ARCHITECT AND SITE ENGINEER, IN WRITING, OF ANY CONFLICTS, DISCREPANCIES OR AMBIGUITIES WHICH EXIST.
11. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE AND ALL UNSUITABLE EXCAVATED MATERIAL AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF ANY AND ALL GOVERNMENTAL AUTHORITIES WHICH HAVE JURISDICTION OVER THIS PROJECT OR OVER CONTRACTOR.
12. 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.
13. 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 THE PROJECT OR AS PART OF THE FINAL CONSTRUCTION. 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.
14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE DUE 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 TO INCLUDE, BUT NOT BE LIMITED TO: CONSTRUCTION OF THE CONTRACTOR'S RESPONSIBILITY FOR AND MUST REPLACE ALL SIGNAL, INTERCONNECTION CABLE, WIRING CONDUITS, AND ANY UNDERGROUND ACCESSORY EQUIPMENT DAMAGED DURING CONSTRUCTION AND MUST 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, RULES, REGULATIONS, STATUTORY REQUIREMENTS AND STANDARDS. 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.
15. ALL CONCRETE MUST BE AIR ENTRAINED AND HAVE THE MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED ON THE PLANS, DETAILS AND/OR GEOTECHNICAL REPORT.
16. 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 ON THESE PLANS, AND FOR ANY CONSEQUENCES OR REVISIONS WHICH RESULT FROM SAME. CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE MEANS/METHODS FOR COMPLETION OF THE WORK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
17. THE ENGINEER OR 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.
18. ALL CONTRACTORS MUST CARRY THE SPECIFIED STATUTORY WORKERS COMPENSATION INSURANCE, EMPLOYER'S LIABILITY INSURANCE AND LIMITS OF COMMERCIAL GENERAL LIABILITY INSURANCE (CG). ALL CONTRACTORS MUST HAVE THEIR CG POLICIES ENDORSED TO NAME BOHLER ENGINEERING, AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND SUBCONTRACTORS AND SUBSIDIARIES AS ADDITIONAL NAMED INSURED AND TO PROVIDE CONTRACTUAL LIABILITY COVERAGE SUFFICIENT TO INSURE THIS HOLD HARMLESS AND INDEMNITY OBLIGATIONS ASSUMED BY THE CONTRACTORS. ALL CONTRACTORS MUST FURNISH BOHLER ENGINEERING WITH CERTIFICATIONS OF INSURANCE AS EVIDENCE OF THE REQUIRED INSURANCE PRIOR TO COMMENCING WORK AND UPON RENEWAL OF EACH POLICY DURING THE ENTIRE PERIOD OF CONSTRUCTION AND FOR ONE YEAR AFTER THE COMPLETION OF CONSTRUCTION. IN ADDITION, ALL CONTRACTORS WILL, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, INDEMNIFY, DEFEND AND HOLD HARMLESS BOHLER ENGINEERING AND ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBSIDIARIES FROM AND AGAINST ANY DAMAGES, INJURIES, CLAIMS, ACTIONS, PENALTIES, EXPENSES, PUNITIVE DAMAGES, TORT DAMAGES, STATUTORY OBLIGATIONS, LOSSES, DAMAGES, AND COSTS, INCLUDING ATTORNEY'S FEES AND COSTS, INCLUDING BUT NOT LIMITED TO, REASONABLE ATTORNEY'S FEES AND REASONABLE COSTS, ARISING OUT OF OR IN ANY WAY CONNECTED WITH OR TO THE PROJECT, INCLUDING ALL CLAIMS BY EMPLOYEES OF THE CONTRACTORS, ALL CLAIMS BY THIRD PARTIES AND ALL CLAIMS RELATED TO THE PROJECT. CONTRACTOR MUST NOTIFY ENGINEER, IN WRITING, AT LATEST THIRTY (30) DAYS PRIOR TO ANY TERMINATION, SUSPENSION OR CHANGE OF ITS INSURANCE HEREUNDER.
19. BOHLER ENGINEERING 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 WILL ONLY FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH THE DESIGN INTENT AND THE INFORMATION SHOWN IN THE CONSTRUCTION CONTRACT DOCUMENTS. CONSTRUCTION MEANS AND/OR METHODS AND/OR TECHNIQUES OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. BOHLER ENGINEERING'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
20. NEITHER THE PROFESSIONAL ACTIVITIES OF BOHLER ENGINEERING, NOR THE PRESENCE OF BOHLER ENGINEERING AND/OR ITS PAST, PRESENT AND FUTURE OWNERS, OFFICERS, DIRECTORS, PARTNERS, SHAREHOLDERS, MEMBERS, PRINCIPALS, COMMISSIONERS, AGENTS, SERVANTS, EMPLOYEES, AFFILIATES, SUBSIDIARIES, AND RELATED ENTITIES, AND ITS SUBCONTRACTORS AND SUBSIDIARIES AT A CONSTRUCTION PROJECT SITE, SHALL RELIEVE THE GENERAL CONTRACTOR OF ITS OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING, BUT NOT LIMITED TO, CONSTRUCTION METHODS, MEANS, TECHNIQUES, AND/OR PROCEDURES, COORDINATION OF THE WORK WITH OTHER TRADES, AND CONSTRUCTION SAFETY PRECAUTIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND BOHLER HAS NO RESPONSIBILITY OR LIABILITY FOR SAME HEREUNDER. BOHLER ENGINEERING'S SHOP DRAWING REVIEW WILL BE CONDUCTED WITH REASONABLE PROMPTNESS WHILE ALLOWING SUFFICIENT TIME TO PERMIT ADEQUATE REVIEW. REVIEW OF A SPECIFIC ITEM MUST NOT INDICATE THAT BOHLER ENGINEERING HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. BOHLER ENGINEERING WILL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT PROMPTLY AND IMMEDIATELY BROUGHT TO ITS ATTENTION, IN WRITING, BY THE CONTRACTOR. BOHLER ENGINEERING WILL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
21. 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 THEREOF AND ALL COMPENSATORY OR PUNITIVE DAMAGES RESULTING THEREFROM TO THE ENGINEER, TO THE FULLEST EXTENT PERMITTED UNDER THE LAW, IN ACCORDANCE WITH PARAGRAPH 19 HEREIN, FOR AND FROM ALL FEES, ATTORNEY'S FEES, DAMAGES, COSTS, JUDGMENTS, PENALTIES AND THE LIKE RELATED TO SAME.
22. 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.
23. ALL SIGNING AND PAVEMENT STRIPING MUST CONFORM TO MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES OR LOCALLY APPROVED SUPPLEMENT.
24. ENGINEER IS NOT RESPONSIBLE FOR ANY INJURY OR DAMAGES RESULTING FROM CONTRACTORS FAILURE TO BUILD OR CONSTRUCT IN STRICT ACCORDANCE WITH THE APPROVED PLANS. IF CONTRACTOR AND/OR OWNER FAIL TO 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.
25. 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. 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.
26. ALL DIMENSIONS MUST BE TO FACE OF CURB, EDGE OF PAVEMENT, OR EDGE OF BUILDING, UNLESS NOTED OTHERWISE.
27. 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.
28. 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.
29. 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 THAT 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.
30. AS CONTAINED IN THESE DRAWINGS AND ASSOCIATED APPLICATION DOCUMENTS PREPARED BY THE SIGNATORY PROFESSIONAL ENGINEER, THE USE OF THE WORDS 'CERTIFY' OR 'CERTIFICATION' CONSTITUTES 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 PLAN NOTES

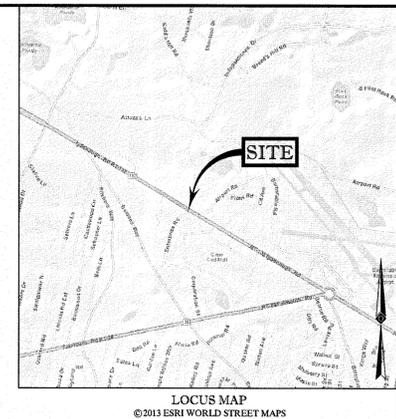
- 1. LOCATIONS OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE INDEPENDENTLY CONFIRMED WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR REPAIR. SANITARY SEWER AND ALL OTHER UTILITY SERVICE CONNECTION POINTS MUST BE INDEPENDENTLY CONFIRMED BY THE CONTRACTOR IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ALL DISCREPANCIES MUST IMMEDIATELY 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.
2. 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 OR WORK SPACE, WHICHEVER 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.
3. 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 THE RELATIVE 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.
4. CONTRACTOR MUST LOCATE AND CLEARLY AND UNAMBIGUOUSLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE AND INACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
5. 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.
6. THE CONTRACTOR MUST INSTALL ALL STORM SEWER AND SANITARY SEWER COMPONENTS WHICH FUNCTION BY GRAVITY PRIOR TO THE INSTALLATION OF ALL OTHER UTILITIES.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SITE PLAN DOCUMENTS AND ARCHITECTURAL DESIGN FOR EXACT BUILDING UTILITY CONNECTION LOCATIONS, GREESE TRAP REQUIREMENTS, DOOR COORDINATION, AND EXTERIOR GRADING. THE ARCHITECT WILL DETERMINE THE UTILITY SERVICE SIZES. THE CONTRACTOR MUST COORDINATE INSTALLATION OF UTILITY 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 COMPLES 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 THE MISCONNECTIONS PRIOR TO CONNECTING TO THE EXISTING UTILITY SERVICE. (WHERE A CONFLICT EXISTS BETWEEN THESE SITE PLANS AND THE ARCHITECTURAL PLANS, THE ARCHITECTURAL UTILITY CONNECTION POINTS DIFFER, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, AND PRIOR TO CONSTRUCTION, RESOLVE SAME.
8. 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.
9. 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.
10. 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 A QUALIFIED GEOTECHNICAL ENGINEER, REGISTERED WITH THE STATE WHERE THE WORK IS PERFORMED. VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN THE BUILDING PAD AREA AND AREAS TO BE PAVED HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT AND ALL APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES. SUBGRADE MATERIAL FOR SIDEWALKS, CURB, OR ASPHALT MUST BE FREE OF ORGANICS AND OTHER UNSUITABLE MATERIALS. SHOULD SUBGRADE BE DEEMED UNSUITABLE BY OWNER/DEVELOPER, OR OWNER/DEVELOPER'S REPRESENTATIVE, THE SUBGRADE IS TO BE REMOVED AND FILLED WITH APPROVED FILL MATERIAL, COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT. EARTHWORK ACTIVITIES INCLUDING, BUT NOT LIMITED TO, 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.
11. ALL FILL, COMPACTION, AND BACKFILL MATERIALS REQUIRED FOR UTILITY INSTALLATION MUST BE AS PER THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT AND MUST BE COORDINATED 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.
12. THE CONTRACTOR MUST COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS AND REGULATIONS, AND/OR ANY OTHER AGENCY WITH JURISDICTION FOR CONSTRUCTION AND TRAINING THE PROJECT AND TRAINING 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 FOR OR AS RELATED TO EXCAVATION AND TRENCHING PROCEDURES.
13. PAVEMENT MUST BE SAW CUT IN STRAIGHT LINES, AND EXCEPT FOR EDGE OF BUUTT 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.
14. THE TOPS OF EXISTING MANHOLES, INLET STRUCTURES, AND SANITARY CLEANOUT TOPS MUST BE ADJUSTED, AS NECESSARY, TO MATCH PROPOSED GRADES IN ACCORDANCE WITH ALL APPLICABLE STANDARDS, REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
15. 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 LOCATION OF THE AS INSTALLED LOCATIONS OF ALL LINE UTILITIES. 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 DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER AT THE COMPLETION OF WORK.
16. 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 BUT NOT LIMITED TO STORM SEWER, SANITARY SEWER, UTILITIES, AND IRRIGATION LINE, TO A POINT AT LEAST 15 (FIFTEEN) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. CONTRACTOR MUST CAP ENDS AS APPROPRIATE, MARK LOCATIONS WITH A 2X4, AND MUST NOTE THE LOCATION OF ALL OF THE ABOVE ON A CLEAN COPY OF THE DRAINAGE OR UTILITY PLAN, WHICH CONTRACTOR MUST PROMPTLY PROVIDE TO THE OWNER UPON COMPLETION OF THE WORK.
17. 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 A 10% MINIMUM SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS, 1.5% MINIMUM ON CONCRETE SURFACES, AND 1.5% MINIMUM ON ASPHALT (EXCEPT WHERE ADA REQUIREMENTS OR EXISTING TOPOGRAPHY 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, CONTRACTOR 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, AT TOWNERS' FEES AND THE LIKE WHICH RESULT FROM SAME.
18. 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 LINE. IF IT CONTRACTORS OBLIGATION TO ENSURE THAT DESIGN ENGINEER APPROVES FINAL CURBING CUT SHEETS PRIOR TO INSTALLATION OF SAME. REFER TO THIS SHEET FOR ADDITIONAL NOTES.
19. 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.
20. CONTRACTOR IS 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.
21. 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.
22. STORM DRAINAGE PIPE UNLESS INDICATED OTHERWISE, ALL STORM SEWER PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M294 AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT TIGHT JOINT. PVC PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 OR SCHEDULE 40 UNLESS INDICATED OTHERWISE.
23. 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.
24. STORM AND SANITARY SEWER PIPE LENGTHS INDICATED ARE NOMINAL AND MEASURED CENTER OF INLET AND/OR MANHOLES STRUCTURE TO CENTER OF STRUCTURE.
25. 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.
26. 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.
27. 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.
28. 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 BOLT ON JOINTS FOR AS FARTHER FROM THE WATER MAIN AS FEASIBLE. THE SEWER PIPE SHOULD BE INSTALLED WITH A MINIMUM OF 18 INCHES OF COVER. LOCATED SO BOTH JOINTS WILL BE AS FARTHER FROM THE WATER MAIN AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER MUST BE PROVIDED.
29. 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 MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DIP) MINIMUM CLASS S2 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARDS IN EFFECT AT THE TIME OF APPLICATION.
30. 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 DOT DETAILS AS APPLICABLE. CONTRACTOR MUST COORDINATE INSPECTION AND APPROVAL OF COMPLETED WORK WITH THE AGENCY WITH JURISDICTION OVER SAME.
31. WHERE BASEMENTS ARE TO BE PROVIDED FOR PROPOSED DWELLING UNITS, THE DEVELOPER SHALL, BY BORING OR BY TEST PIT, DETERMINE THE DEPTH TO GROUNDWATER AT THE LOCATION OF THE PROPOSED DWELLINGS. WHERE GROUNDWATER IS ENCOUNTERED IN THE BASEMENT AREA, BASEMENTS WILL NOT BE INSTALLED UNLESS SPECIAL CONSTRUCTION METHODS ARE PROVIDED. TO BE REVIEWED AND APPROVED BY THE MUNICIPAL CONSTRUCTION CODE OFFICIAL. IF AND WHERE SUMP PUMPS ARE INSTALLED, ALL DISCHARGES MUST BE CONNECTED TO THE STORM SEWER. A CLEANOUT MUST BE PROVIDED PRIOR TO THE CONNECTION TO THE STORM DRAIN IN ORDER THAT BACKLOGGERS CAN BE ADRESSED.
32. FOR SINGLE AND TWO-FAMILY RESIDENTIAL PROJECTS, WHERE THE PROPOSED DWELLING AND ADJACENT SPOT ELEVATIONS) ARE SCHEMATIC FOR GENERIC BUILDING FOOTPRINT, GRADES MUST BE ADJUSTED BASED ON FINAL ARCHITECTURAL PLANS TO PROVIDE A MINIMUM OF SIX (6) INCHES BELOW TOP OF BLOCK AND/OR SIX (6) INCHES BELOW SIDING, WHICHEVER IS LOWEST, AND MUST PROVIDE POSITIVE DRAINAGE (2% MIN.) AWAY FROM DWELLING. ALL CONSTRUCTION, INCLUDING GRADING, MUST COMPLY WITH THE LATEST LOCAL AND STATE BUILDING CODE AND ALL OTHER APPLICABLE REQUIREMENTS, RULES, STATUTES, LAWS, ORDINANCES AND CODES.
33. LOCATION OF PROPOSED UTILITY POLE RELOCATION IS AT THE SOLE DISCRETION OF UTILITY COMPANY.
34. 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.

GENERAL DEMOLITION NOTES

- 1. THIS PLAN REFERENCES DOCUMENTS AND INFORMATION BY:
- SURVEY: 'ALTAACSM LAND TITLE SURVEY' FOR CHICK-FILA PREPARED BY CONTROL POINT ASSOCIATES, INC., SOUTHBOROUGH, MA, SCALE: 1"=20', DATED 8/4/14, REVISED 4/24/15, OR LATEST EDITION, 3 SHEETS.
2. CONTRACTOR SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970, (29 U.S.C. 651 et seq.), AS AMENDED AND ANY MODIFICATIONS, AMENDMENTS OR REVISIONS TO SAME.
3. BOHLER ENGINEERING HAS NO CONTRACTUAL, LEGAL, OR OTHER RESPONSIBILITY FOR JOB SITE SAFETY OR JOB SITE SUPERVISION, OR ANYTHING RELATED TO SAME.
4. THE DEMOLITION PLAN IS INTENDED TO PROVIDE GENERAL INFORMATION, ONLY, REGARDING ITEMS TO BE DEMOLISHED AND/OR REMOVED. THE CONTRACTOR MUST ALSO REVIEW THE OTHER SITE PLAN DRAWINGS AND INCLUDE IN DEMOLITION ACTIVITIES ALL INCIDENTAL WORK NECESSARY FOR THE CONSTRUCTION OF THE NEW SITE IMPROVEMENTS.
5. CONTRACTOR MUST RAISE ANY QUESTIONS CONCERNING THE ACCURACY OR INTENT OF THESE PLANS OR SPECIFICATIONS, CONCERNS REGARDING THE APPLICABLE SAFETY STANDARDS, OR THE SAFETY OF THE CONTRACTOR OR THIRD PARTIES IN PERFORMING THE WORK ON THIS PROJECT, WITH BOHLER ENGINEERING, IN WRITING, AND RESPONDED TO BY BOHLER, IN WRITING, PRIOR TO THE INITIATION OF ANY SITE ACTIVITY AND ANY DEMOLITION ACTIVITY. ALL DEMOLITION ACTIVITIES MUST BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, RULES, REQUIREMENTS, STATUTES, ORDINANCES AND CODES.
6. PRIOR TO STARTING ANY DEMOLITION, CONTRACTOR IS RESPONSIBLE FOR TO:
A. OBTAINING ALL REQUIRED PERMITS AND MAINTAINING THE SAME ON SITE FOR REVIEW BY THE ENGINEER AND OTHER PUBLIC AGENCIES WITH JURISDICTION THROUGHOUT THE DURATION OF THE PROJECT, SITE WORK, AND DEMOLITION WORK.
B. NOTIFYING, AT A MINIMUM, THE MUNICIPAL ENGINEER, DESIGN ENGINEER, AND LOCAL SOIL CONSERVATION DISTRICT, 72 HOURS PRIOR TO THE START OF WORK.
C. INSTALLING THE REQUIRED SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
D. IN ACCORDANCE WITH STATE LAW, THE CONTRACTOR MUST CALL THE STATE ONE-CALL DAMAGE PROTECTION SYSTEM FOR UTILITY MARKOUT, IN ADVANCE OF ANY EXCAVATION.
E. LOCATING AND PROTECTING ALL UTILITIES AND SERVICES, INCLUDING BUT NOT LIMITED TO GAS, WATER, ELECTRIC, SANITARY AND STORM SEWER, TELEPHONE, CABLE, FIBER OPTIC CABLE, ETC. WITHIN AND ADJACENT TO THE LIMITS OF PROJECT ACTIVITIES. THE CONTRACTOR MUST USE AND COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY NOTIFICATION SYSTEM TO LOCATE ALL THE UNDERGROUND UTILITIES.
F. PROTECTING AND MAINTAINING IN OPERATION, ALL ACTIVE UTILITIES AND SYSTEMS THAT ARE NOT BEING REMOVED DURING ALL DEMOLITION ACTIVITIES.
G. ARRANGING FOR AND COORDINATING WITH THE APPLICABLE UTILITY SERVICE PROVIDER(S) FOR THE TEMPORARY OR PERMANENT TERMINATION OF SERVICE REQUIRED BY THE PROJECT, UNLESS SAME IS IN STRICT ACCORDANCE WITH THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES HAVE BEEN TERMINATED AND ABANDONED IN ACCORDANCE WITH JURISDICTIONAL AND UTILITY COMPANY REQUIREMENTS.
H. COORDINATION WITH UTILITY COMPANIES REGARDING WORKING "OFF-PEAK" HOURS OR ON WEEKENDS AS MAY BE REQUIRED TO MINIMIZE THE IMPACT ON THE AFFECTED PARTIES. WORK REQUIRED TO BE DONE "OFF-PEAK" IS TO BE DONE AT NO ADDITIONAL COST TO THE OWNER.
I. IN THE EVENT THE CONTRACTOR DISCOVERS ANY HAZARDOUS MATERIAL, THE REMOVAL OF WHICH IS NOT ADDRESSED IN THE PROJECT PLANS AND SPECIFICATIONS, THE CONTRACTOR MUST IMMEDIATELY CEASE ALL WORK AND IMMEDIATELY NOTIFY THE OWNER AND ENGINEER OF THE DISCOVERY OF SUCH MATERIALS.
7. THE FIRM OR ENGINEER OF RECORD IS NOT RESPONSIBLE FOR JOB SITE SAFETY OR SUPERVISION. CONTRACTOR MUST PROCEED WITH THE DEMOLITION IN A SYSTEMATIC AND SAFE MANNER, FOLLOWING ALL THE OSHA REQUIREMENTS, TO ENSURE PUBLIC AND CONTRACTOR SAFETY.
8. THE CONTRACTOR MUST PROVIDE ALL "MEANS AND METHODS" NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF EXISTING STRUCTURES, AND ANY OTHER IMPROVEMENTS THAT ARE REMAINING ON OR OFF SITE. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS OF DAMAGE TO ALL ITEMS THAT ARE TO REMAIN. CONTRACTOR MUST USE NEW MATERIAL FOR ALL REPAIRS. CONTRACTOR'S REPAIR MUST INCLUDE THE RESTORATION OF ANY ITEMS RELATED TO THE PRE-DEMOLITION CONDITION, OR BETTER. CONTRACTOR SHALL PERFORM ALL REPAIRS AT THE CONTRACTOR'S SOLE EXPENSE.
9. THE CONTRACTOR MUST NOT PERFORM ANY EARTH MOVEMENT ACTIVITIES, DEMOLITION OR REMOVAL OF FOUNDATION WALLS, FOOTINGS, OR OTHER MATERIALS WITHIN THE LIMITS OF DISTURBANCE UNLESS SAME IS IN STRICT ACCORDANCE WITH THE UTILITY ENGINEER AND OWNER WRITTEN NOTIFICATION THAT THE EXISTING UTILITIES AND SERVICES ARE THE OWNER'S STRUCTURAL OR GEOTECHNICAL ENGINEER.
10. CONTRACTOR MUST BACKFILL ALL EXCAVATION RESULTING FROM OR INCIDENTAL TO, DEMOLITION ACTIVITIES. BACKFILL MUST BE ACCOMPISHED WITH APPROVED BACKFILL MATERIALS, AND MUST BE SUFFICIENTLY COMPACTED TO SUPPORT NEW IMPROVEMENTS AND PERFORMED IN COMPLIANCE WITH THE RECOMMENDATIONS AND GUIDANCE IN THE GEOTECHNICAL REPORT. BACKFILLING MUST OCCUR IMMEDIATELY AFTER DEMOLITION ACTIVITIES, AND MUST BE DONE SO AS TO PREVENT WATER ENTERING THE EXCAVATION. FINISHED SURFACES MUST BE GRADED TO PROMOTE POSITIVE DRAINAGE.
11. EXPLOSIVES MUST NOT BE USED WITHOUT PRIOR WRITTEN CONSENT OF BOTH THE OWNER AND ALL APPLICABLE GOVERNMENTAL AUTHORITIES. ALL THE REQUIRED PERMITS AND EXPLOSIVE CONTROL MEASURES THAT ARE REQUIRED BY THE FEDERAL, STATE, AND LOCAL GOVERNMENTS MUST BE IN PLACE PRIOR TO CONTRACTOR STARTING AN EXPLOSIVE PROGRAM AND/OR ANY DEMOLITION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL INSPECTION AND SEISMIC VIBRATION TESTING THAT IS REQUIRED TO MONITOR THE EFFECTS ON ALL LOCAL STRUCTURES.
12. CONTRACTOR MUST PROVIDE TRAFFIC CONTROL AND GENERALLY ACCEPTED SAFE PRACTICES IN CONFORMANCE WITH THE CURRENT FHWA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND THE FEDERAL, STATE, AND LOCAL REGULATIONS WHEN DEMOLITION RELATED ACTIVITIES IMPACT ROADWAYS AND/OR ROADWAY RIGHT-OF-WAY.
13. CONTRACTOR MUST CONDUCT DEMOLITION ACTIVITIES IN SUCH A MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, SIDEWALKS, WALKWAYS, AND OTHER ADJACENT FACILITIES. STREET CLOSURE PERMITS MUST BE RECEIVED FROM THE APPROPRIATE GOVERNMENTAL AUTHORITY PRIOR TO THE COMMENCEMENT OF ANY ROAD OPENING OR DEMOLITION ACTIVITIES IN OR ADJACENT TO THE RIGHT-OF-WAY.
14. DEMOLITION ACTIVITIES AND EQUIPMENT MUST NOT USE AREAS OUTSIDE THE DEFINED PROJECT LIMIT LINE, WITHOUT WRITTEN PERMISSION OF THE OWNER AND ALL GOVERNMENTAL AGENCIES WITH JURISDICTION.
15. THE CONTRACTOR MUST USE DUST CONTROL MEASURES TO LIMIT AIRBORNE DUST AND DIRT RISING AND SCATTERING IN THE AIR IN ACCORDANCE WITH FEDERAL, STATE, AND/OR LOCAL STANDARDS. AFTER THE DEMOLITION IS COMPLETE, CONTRACTOR MUST CLEAN ALL ADJACENT STRUCTURES AND IMPROVEMENTS TO REMOVE ALL DUST AND DEBRIS CAUSED BY THE DEMOLITION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL ADJACENT AREAS TO THEIR "PRE-DEMOLITION" CONDITION.
16. CONTRACTOR IS RESPONSIBLE TO SAFEGUARD THE SITE AS NECESSARY TO PERFORM THE DEMOLITION IN SUCH A MANNER AS TO PREVENT THE ENTRY OF UNAUTHORIZED PERSONS AT ANY TIME.
17. CONTRACTOR IS RESPONSIBLE FOR SITE JOB SAFETY, WHICH MUST INCLUDE, BUT NOT BE LIMITED TO, THE INSTALLATION AND MAINTENANCE OF BARRIERS, FENCING AND OTHER APPROPRIATE SAFETY ITEMS NECESSARY TO PROTECT THE PUBLIC FROM AREAS OF CONSTRUCTION AND CONSTRUCTION ACTIVITY.
18. THIS DEMOLITION PLAN IS INTENDED TO IDENTIFY THOSE EXISTING ITEMS/CONDITIONS WHICH ARE TO BE REMOVED. IT IS NOT INTENDED TO PROVIDE DIRECTION AS TO THE MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED TO ACCOMPLISH THAT WORK. ALL MEANS, METHODS, SEQUENCING, TECHNIQUES AND PROCEDURES TO BE USED MUST BE IN STRICT ACCORDANCE WITH ALL STATE, FEDERAL, LOCAL, AND JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR MUST COMPLY WITH ALL OSHA AND OTHER SAFETY PRECAUTIONS NECESSARY TO PROVIDE A SAFE WORK SITE.
19. DEBRIS MUST NOT BE BURIED ON THE SUBJECT SITE. ALL DEMOLITION WASTES AND DEBRIS (SOLID WASTE) MUST BE DISPOSED OF IN ACCORDANCE WITH ALL MUNICIPAL, COUNTY, STATE, AND FEDERAL LAWS AND APPLICABLE CODES. THE CONTRACTOR MUST MAINTAIN RECORDS TO DEMONSTRATE PROPER DISPOSAL ACTIVITIES, TO BE PROMPTLY PROVIDED TO THE OWNER UPON REQUEST.
20. CONTRACTOR MUST MAINTAIN A RECORD SET OF PLANS UPON WHICH IS INDICATED THE LOCATION OF EXISTING UTILITIES THAT ARE CAPPED, ABANDONED IN PLACE, OR RELOCATED DUE TO DEMOLITION ACTIVITIES. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER, AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK.
21. CONTRACTOR 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 ALL APPLICABLE STATE AND LOCAL ACCESSIBILITY LAWS AND REGULATIONS AND THE CURRENT ADA AND/OR STATE ARCHITECTURAL ACCESS BOARD STANDARDS AND REGULATIONS BARRIER FREE ACCESS AND ANY MODIFICATIONS, REVISIONS OR UPDATES TO SAME. FINISHED SURFACES ALONG THE ACCESSIBLE ROUTE OF TRAVEL FROM PARKING SPACE, PUBLIC TRANSPORTATION, PEDESTRIAN ACCESS, INTER-BUILDING ACCESS, TO POINTS OF ACCESSIBLE BUILDING ENTRANCE/EXIT, MUST COMPLY WITH THESE ADA AND/OR ARCHITECTURAL ACCESS BOARD CODE REQUIREMENTS. THESE INCLUDING, BUT ARE NOT LIMITED TO THE FOLLOWING:
- PARKING SPACES AND PARKING AISLES - SLOPE SHALL NOT EXCEED 1:50 (1/4" PER FOOT OR NOMINALLY 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 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.
- PATH OF TRAVEL ALONG ACCESSIBLE ROUTE - MUST PROVIDE A 36 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 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL WILL BE GREATER THAN 1:20 (5.0%), ADA RAMPS 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 (1/4" PER FOOT OR NOMINALLY 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 (1/4" PER FOOT OR NOMINALLY 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 ICC ANSIS A117-2003 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 PLAN. NOTE THAT TABLE 405.2 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.
IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR REVIEW THE INTENDED CONSTRUCTION WITH THE LOCAL BUILDING CODE PRIOR TO COMMENCEMENT OF CONSTRUCTION.

TYPICAL ABBREVIATIONS table with columns: KEY, DESCRIPTION, PROP, DESCRIPTION. Includes items like BOTTOM CURB, TOP CURB, BACK OF CURB, BOTTOM OF WALL GRADE, EXISTING, BENCHMARK, EDGE OF PAVEMENT, CENTERLINE, FINISHED FLOOR, VERIFY IN FIELD, GENERAL CONTRACTOR, HIGH POINT

- LEGEND**
- 124 --- EXISTING CONTOUR
  - 125 --- EXISTING SPOT ELEVATION
  - X 123.45 EXISTING TOP OF CURB ELEVATION
  - X 123.45 EXISTING TOP OF WALL ELEVATION
  - X 122.85 EXISTING GUTTER ELEVATION
  - X 123.45 EXISTING BOTTOM OF WALL ELEVATION
  - HYDRANT
  - WATER VALVE
  - ELECTRIC METER
  - OVERHEAD WIRES
  - APPROX. LOC. UNDERGROUND GAS LINE
  - APPROX. LOC. UNDERGROUND WATER LINE
  - UTILITY POLE
  - GUY WIRE
  - STREET LIGHT
  - TRAFFIC SIGNAL POLE
  - TRAFFIC SIGNAL
  - AREA LIGHT
  - SIGN
  - PAINTED ARROWS
  - DEPRESSED CURB
  - EDGE OF PAVEMENT
  - METAL COVER
  - TYPICAL
  - DMH DRAINAGE/STORM MANHOLE
  - SMH SANITARY/SEWER MANHOLE
  - MH UNKNOWN MANHOLE
  - CB CATCH BASIN OR INLET
  - DECIDUOUS TREE & TRUNK SIZE
  - PARKING SPACE COUNT
  - SML SOLID WHITE LINE
  - SYL SOLID YELLOW LINE
  - DYL DOUBLE YELLOW LINE
  - DAWL DASHED WHITE LINE
  - BLDG BUILDING
  - PVC POLYVINYL CHLORIDE PIPE
  - HOPE HIGH DENSITY POLYETHYLENE PIPE
  - INV INVERT ELEVATION
  - GRT GRATE ELEVATION
  - BOT BOTTOM ELEVATION
  - CIP CAST IRON PIPE



**UTILITIES:**

THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVICING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 20142911797

UTILITY COMPANY	PHONE NUMBER	ADDRESS
HYANNIS WATER SYSTEM	508-775-0083	47 OLD YARMOUTH ROAD, HYANNIS, MA 02601
NATIONAL GRID GAS-COLONIAL	508-394-1680	127 WHITES PATH, SOUTH YARMOUTH, MA 02664
NSTAR ELECTRIC-COM	508-660-5200	760 MAIN STREET, WALPOLE, MA 02081
VERIZON	508-771-2016	420 ATTUCKS LANE, HYANNIS, MA 02601
COMCAST - PEMBROKE	508-477-7758	881 FALMOUTH ROAD, MASHPEE, MA 02649
ON TARGET LOCKING	508-428-1022	215 HOPPING BROOK ROAD, HOLLISTON, MA 01746
INNOVATIVE DATA MANAGEMENT	888-604-5577	146 ORANGE PLACE, MAITLAND, FL 32751

**TABLE OF APPARENT ENCROACHMENTS**

ITEMS	REQUIRED
AD SIGN, OVERHEAD WIRES, WALL & PARKING STALLS IN FAVOR OF LOT 25.	
POLES AND OVERHEAD WIRES RUNNING ALONG IYANNOUGH ROAD.	
ASPHALT WALK RUNNING ALONG IYANNOUGH ROAD.	
SIX (6) FOOT CHAIN LINK FENCE AT THE SOUTHWESTERLY CORNER OF LOT 25, MAP 294	

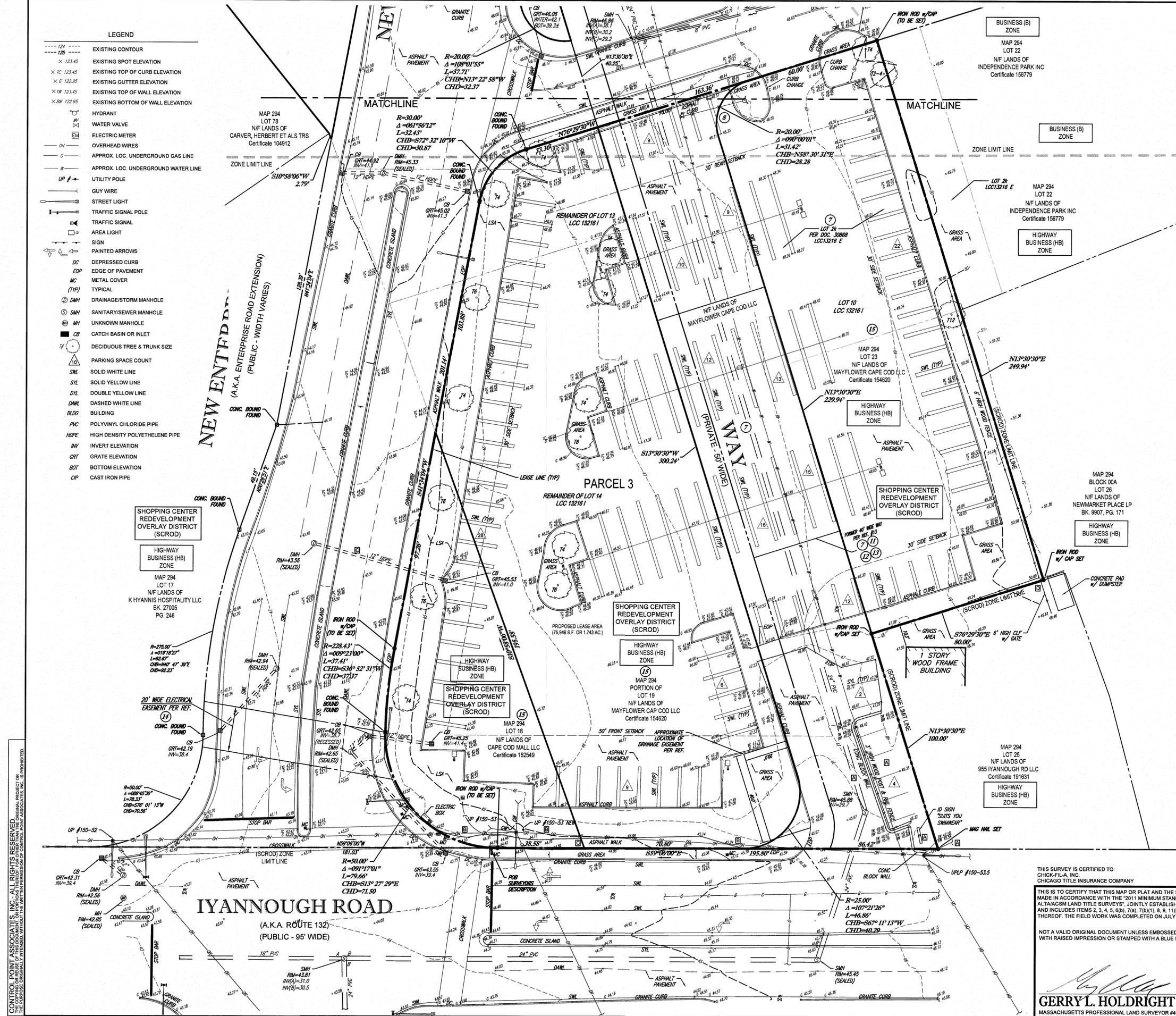
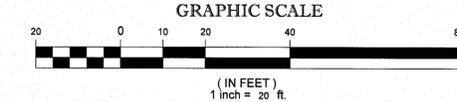
**ZONING INFORMATION**

BUSINESS (HB) & SHOPPING CENTER REDEVELOPMENT OVERLAY DISTRICT (SCROD) SOURCE: TOWN OF BARNSTABLE, MA

ITEMS	REQUIRED
MIN LOT AREA	40,000 SQ. FT.
MIN FRONTAGE	20 FT.
MIN FRONT YARD	60 FT.**
MIN SIDE YARD	30 FT.**
MIN REAR YARD	20 FT.
MAX BUILDING HEIGHT	30 FT.**

\*ONE HUNDRED FEET ALONG ROUTE 28 AND 132.  
\*\*OR TWO STORIES, WHICHEVER IS LESSER.

NOTE: ZONING CRITERIA IDENTIFIED HEREON ARE BASED UPON PRELIMINARY INVESTIGATION AND PRESENTED FOR REFERENCE ONLY. SAME MUST BE CONFIRMED WITH LOCAL ZONING OFFICIAL AND LEGAL COUNSEL TO CONFIRM VALIDITY.



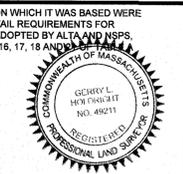
THIS SURVEY IS CERTIFIED TO:  
CHICK-FIL-A, INC.  
CHICAGO TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAN AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS AND INCLUDES ITEMS 2, 3, 4, 5, 6(b), 7(a), 7(b)(1), 8, 9, 11(b), 13, 14, 16, 17, 18 AND 19 OF SAID THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 22, 2014.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL

**GERRY L. HOLDRIGHT**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

DATE: 4/24/15



NO.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
4	REMOVED OLD ENCROACHMENT C	NA	G.L.H.	G.L.H.	4-24-15
3	UPDATED TITLE COMMITMENT	NA	J.B.D.N.	J.L.L.	3-19-15
2	REVISED PER ATTORNEY COMMENTS	NA	J.M.B.	A.J.L.	1-8-15
1	REVISED PER ATTORNEY COMMENTS	NA	J.L.S.	A.J.L.	10-30-14

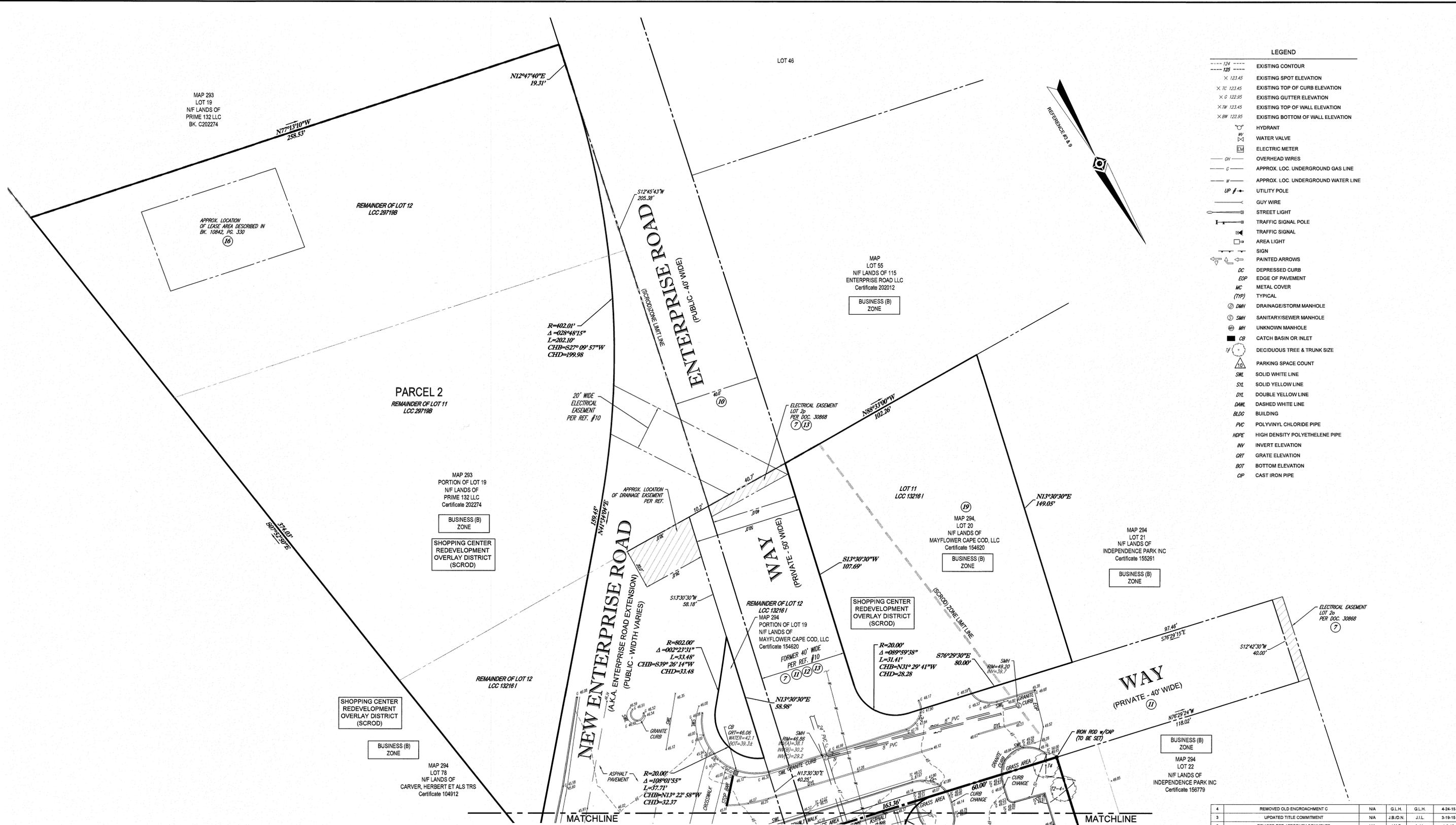
FIELD DATE: 7-22-14  
FIELD BOOK NO: 1404MA  
FIELD BOOK PG: 22-23

**ALTA/ACSM LAND TITLE SURVEY**  
**CHICK-FIL-A**  
921 IYANNOUGH ROAD,  
104 ENTERPRISE ROAD  
MAP 294, LOTS 18, 19 & 23  
TOWN OF BARNSTABLE,  
BARNSTABLE COUNTY,  
COMMONWEALTH OF MASSACHUSETTS

**CONTROL POINT ASSOCIATES, INC.**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
508.948.3000 - 508.948.3003 FAX  
WARREN, NJ 908.668.0099  
CHALFONT, PA 215.712.9800

REVIEWED:	APPROVED:	DATE:	SCALE:	FILE NO.:	DWG. NO.:
J.L.L.	G.L.H.	8-14-14	1"=40'	CM14146	1 OF 3

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**LEGEND**

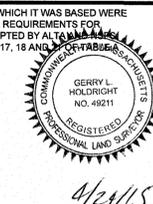
---	EXISTING CONTOUR
---	EXISTING SPOT ELEVATION
X TO 123.45	EXISTING TOP OF CURB ELEVATION
X G 122.85	EXISTING GUTTER ELEVATION
X W 123.45	EXISTING TOP OF WALL ELEVATION
X BW 122.85	EXISTING BOTTOM OF WALL ELEVATION
HY	HYDRANT
WV	WATER VALVE
EM	ELECTRIC METER
OH	OVERHEAD WIRES
G	APPROX. LOC. UNDERGROUND GAS LINE
W	APPROX. LOC. UNDERGROUND WATER LINE
UP	UTILITY POLE
GUY	GUY WIRE
ST	STREET LIGHT
TSP	TRAFFIC SIGNAL POLE
TS	TRAFFIC SIGNAL
AL	AREA LIGHT
S	SIGN
PA	PAINTED ARROWS
DC	DEPRESSED CURB
EOP	EDGE OF PAVEMENT
MC	METAL COVER
(TYP)	TYPICAL
DMH	DRAINAGE/STORM MANHOLE
SMH	SANITARY/SEWER MANHOLE
UMH	UNKNOWN MANHOLE
CB	CATCH BASIN OR INLET
DT	DECIDUOUS TREE & TRUNK SIZE
PC	PARKING SPACE COUNT
SWL	SOLID WHITE LINE
SYL	SOLID YELLOW LINE
DYL	DOUBLE YELLOW LINE
DWL	DASHED WHITE LINE
BLDG	BUILDING
PVC	POLYVINYL CHLORIDE PIPE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
INV	INVERT ELEVATION
GR	GRATE ELEVATION
BOT	BOTTOM ELEVATION
CIP	CAST IRON PIPE

4	REMOVED OLD ENCROACHMENT C	NA	GLH	GLH	4-24-15
3	UPDATED TITLE COMMITMENT	NA	J.B./D.N.	J.L.L.	3-18-15
2	REVISED PER ATTORNEY COMMENTS	NA	J.M.B.	A.J.L.	1-8-15
1	REVISED PER ATTORNEY COMMENTS	NA	J.L.S.	A.J.L.	10-30-14
NA	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE

THIS SURVEY IS CERTIFIED TO CHICK-FIL-A, INC. CHICAGO TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND ACSM AND INCLUDES ITEMS 2, 3, 4, 5, 6(b), 7(a), 7(b)(1), 8, 9, 11(d), 13, 14, 16, 17, 18 AND 19 THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 22, 2014.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL



**GERRY L. HOLDRIGHT**  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

**ALTA/ACSM LAND TITLE SURVEY**  
**CHICK-FIL-A**  
921 YANNOUGH ROAD,  
104 ENTERPRISE ROAD  
MAP 294, LOTS 18, 19 & 23  
TOWN OF BARNSTABLE,  
BARNSTABLE COUNTY  
COMMONWEALTH OF MASSACHUSETTS

**CONTROL POINT ASSOCIATES, INC.**  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772  
508.948.3000 - 508.948.3003 FAX  
WARREN, NJ 908.668.0099  
CHALFONT, PA 215.712.9800

FIELD DATE	7-22-14
FIELD BOOK NO	1404MA
FIELD BOOK PG	22-23
FIELD CREW	T.M.
DRAWN	INDO-SND
REVIEWED	J.L.L.
APPROVED	G.L.H.
DATE	8-14-14
SCALE	1"=40'
FILE NO	CM14146
DWG. NO	2 OF 3

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**UTILITIES:**  
THE FOLLOWING COMPANIES WERE NOTIFIED BY MASSACHUSETTS ONE-CALL SYSTEM (1-888-344-7233) AND REQUESTED TO MARK OUT UNDERGROUND FACILITIES AFFECTING AND SERVING THIS SITE. THE UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS BASED UPON THE UTILITY COMPANIES RESPONSE TO THIS REQUEST. SERIAL NUMBER(S): 20142911797

UTILITY COMPANY	PHONE NUMBER	ADDRESS
HYANNIS WATER SYSTEM	508-775-0063	47 OLD YARMOUTH ROAD, HYANNIS, MA 02601
NATIONAL GRID GAS-COLONIAL	508-394-1690	127 WHITES PATH, SOUTH YARMOUTH, MA 02684
NSTAR ELECTRIC-COM	508-860-5200	760 MAIN STREET, WALPOLE, MA 02081
VERIZON	508-771-2016	420 ATTUCKS LANE, HYANNIS, MA 02601
COMCAST - PEMBROKE	508-477-7756	681 FALMOUTH ROAD, MASHPEE, MA 02649
ON TARGET LOCATING	508-429-1022	215 HOPPING BROOK ROAD, HOLLISTON, MA 01746
INNOVATIVE DATA MANAGEMENT	888-604-5577	146 ORANGE PLACE, MAITLAND, FL 32751



THE COMMONWEALTH OF MASSACHUSETTS REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.

NOTES:

- PROPERTY KNOWN AS LOTS 18, 19, & 23 ON THE VILLAGE OF HYANNIS, TOWN OF BARNSTABLE, BARNSTABLE COUNTY, MASSACHUSETTS TAX ASSESSOR'S MAP.
- AREA OF PROPOSED LEASE = 75,946 SQUARE FEET OR 1.743 ACRES.
- LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
- THIS PLAN IS BASED ON INFORMATION PROVIDED BY A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
- THIS SURVEY IS PREPARED WITH REFERENCE TO A TITLE REPORT PREPARED BY CHICAGO TITLE INSURANCE COMPANY, FILE NO. 1521-0013, WITH AN EFFECTIVE DATE OF JANUARY 22, 2015. WHERE THE FOLLOWING SURVEY RELATED EXCEPTIONS APPEAR IN SCHEDULE B, SECTION II:  
EXCEPTIONS 1-6, 8, 15-16 & 21-27 ARE NOT SURVEY RELATED & HAVE NOT BEEN COMMENTED ON AS PART OF THIS SURVEY.  
  - RIGHTS AND EASEMENTS GRANTED TO CAPE & VINEYARD ELECTRIC COMPANY AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY DATED JULY 23, 1951 FILED AS DOCUMENT NO. 302889. (AS TO A PORTION OF LOT 10 IN PARCEL 3) - AFFECTS PARCEL 3) - AFFECTS CFA LEASE AREA, ELECTRICAL EASEMENT WITHIN 40' RIGHT OF WAYS AND OVER LOTS 2a, 2p & SOUTHEAST CORNER OF LOT 2k SHOWN ON PLAN.
  - EASEMENT TO THE BARNSTABLE WATER COMPANY DATED AUGUST 8, 1969 AND FILED AS DOCUMENT NO. 132413. - UNABLE TO COMMENT; LOCATION OF 20' WIDE WATER EASEMENT, PLAN REFERENCE IN DOCUMENT NOT PROVIDED.
  - ORDER OF TAKING FOR ENTERPRISE ROAD DATED AUGUST 11, 1999, FILED WITH SAID REGISTRY DISTRICT AS DOCUMENT NO. 778552. - DOES NOT AFFECT PARCELS; NEW ENTERPRISE ROAD & TWO 20' WIDE ELECTRIC EASEMENTS SHOWN ON PLAN.
  - WATER EASEMENT TO BARNSTABLE WATER COMPANY DATED OCTOBER 10, 1974, FILED AS DOCUMENT NO. 192245. (AFFECTS PARCEL 3) - AFFECTS SURVEYED AREA; WATER EASEMENT OVER 40' WIDE WAY (PER REFERENCE 7) SHOWN ON PLAN.
  - WATER EASEMENT TO BARNSTABLE WATER COMPANY DATED OCTOBER 10, 1974, FILED AS DOCUMENT NO. 192246. (AFFECTS PARCEL 3) - AFFECTS SURVEYED AREA; WATER EASEMENT OVER 40' WIDE WAY (PER REFERENCE 7) SHOWN ON PLAN.
  - WATER EASEMENT TO BARNSTABLE WATER COMPANY DATED OCTOBER 10, 1974, FILED AS DOCUMENT NO. 192247. (AFFECTS PARCEL 3) - AFFECTS SURVEYED AREA; WATER EASEMENT OVER 40' WIDE WAY (PER REFERENCE 7) SHOWN ON PLAN.
  - EASEMENT TO NEW BEDFORD GAS AND ELECTRIC COMPANY DATED OCTOBER 24, 1977, FILED AS DOCUMENT NO. 230295. - UNABLE TO COMMENT; LOCATION OF ELECTRICAL FACILITIES, PLAN REFERENCE IN DOCUMENT NOT PROVIDED.
  - TERMS AND PROVISIONS OF PERMANENT AGREEMENT AS AMENDED IN BOOK 13806, PAGE 173. -AFFECTS CFA LEASE AREA, BLANKET IN NATURE.
  - RIGHTS OF TENANTS AS TENANT ONLY, UNDER THAT CERTAIN INDENTURE OF LEASE BETWEEN DAVID L. MCCARTHY, TRUSTEE OF ACORN REALTY TRUST AND JKL ASSOCIATES, INC. D/B/A ALL PRO TRANSMISSIONS, DATED MAY 1, 1992 RECORDED IN BOOK 10842, PAGE 330.
  - ORDER OF BETTERMENT ASSESSMENTS HYANNIS COMMERCIAL ZONE MUNICIPAL SEWER PROJECT DATED DECEMBER 24, 1994, RECORDED IN BOOK 9496, PAGE 330. -AFFECTS PARCEL; LOCATION OF SEWER UNCLEAR, PLAN REFERENCE IN DOCUMENT NOT PROVIDED.
  - ORDER OF BETTERMENT ASSESSMENTS BY THE TOWN OF BARNSTABLE DATED DECEMBER 21, 1994 AND FILED AS DOCUMENT NO. 630869. (AFFECTS PARCEL 3) - AFFECTS PARCEL; LOCATION OF SEWER UNCLEAR, PLAN REFERENCE IN DOCUMENT NOT PROVIDED.
  - GRANT OF EASEMENT DATED AUGUST 28, 1998 BY CCM IYANNOUGH ROAD LLC TO DAVID L. MCCARTHY, AS TRUSTEE, RECORDED IN BOOK 11690, PAGE 195 AND FILED AS DOCUMENT NO. 739183. (AFFECTS PARCEL 3) - DOES NOT AFFECT CFA LEASE AREA; PARKING RIGHTS WITHIN LOT 20, BLANKET IN NATURE.
  - ORDER OF TAKING B THE TOWN OF BARNSTABLE OF AN EASEMENT FOR HIGHWAY PURPOSES IN CORPORATION STREET DATED OCTOBER 13, 1998 FILED AS DOCUMENT NO. 743595 (AS TO APPURTENANT RIGHT OF WAY FORMING A PART OF PARCEL 2. (AFFECTS PARCEL 2) NOT LOCUS.
- BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE ANNUAL 0.2% CHANCE FLOODPLAIN) PER REF. #2
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS)
- THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
- ALL MATTERS AFFECTING THE PROPOSED CHICK-FIL-A LEASE AREA SHOWN ON RECORDED PLATS AS DISCLOSED IN EITHER THE TITLE REVIEW OR RECORD RESEARCH HAVE BEEN SHOWN ON THIS SURVEY.
- AT THE TIME OF THIS SURVEY THERE ARE NO BUILDINGS EXISTING WITHIN THE PROPOSED CHICK-FIL-A LEASE AREA.
- ZONING LINES ARE BASED ON PROPOSED ENGINEERING PLANS AND MAY NOT DEPICT CURRENT SITE CONDITIONS.

REFERENCES:

- THE TAX ASSESSOR'S MAP OF TOWN OF BARNSTABLE, BARNSTABLE COUNTY, MASSACHUSETTS, MAP #294.
- MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, BARNSTABLE COUNTY, MASSACHUSETTS (ALL JURISDICTIONS), PANEL 686 OF 875", MAP NUMBER 25001C0566J, EFFECTIVE DATE: JULY 16, 2014.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE (HYANNIS)" PREPARED BY ED. KELLOGG, DATED DECEMBER 9, 1963, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 297199.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY DOWN CAP ENGINEERING, INC., DATED SEPTEMBER 17, 1999, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 297199.
- MAP ENTITLED "TOWN OF BARNSTABLE, PLAN SHOWING LAYOUT OF ENTERPRISE ROAD, AS LAID OUT BY THE TOWN MANAGER, ACTING UNDER CHAPTER II, ARTICLE VII, SECTION 2 GENERAL ORDINANCES." PREPARED BY CULLINAN ENGINEERING, DATED MARCH 31, 1999, FILED IN THE BARNSTABLE COUNTY REGISTRY OF DEEDS AS PLAN BOOK 551, PAGE 13.
- MAP ENTITLED "PLAN OF LAND IN BARNSTABLE." PREPARED BY WHITNEY & BASSETT, ENGINEERS, DATED JUNE 1958, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 28563A.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY CMS ASSOCIATES, INC., DATED JUNE 16, 1977, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 29992E.
- MAP ENTITLED "PLAN OF LAND IN BARNSTABLE." PREPARED BY NELSON BEARSE & RICHARD LAW, DATED MARCH 1960, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 29992A.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY BAXTER & NYE, INC., DATED SEPTEMBER 22, 1986, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 13218I.
- MAP ENTITLED "PLAN OF LAND IN BARNSTABLE (HYANNIS) MASS., FOR JOHN L. SCHULENBURG TR., NEW ADVENTURES REALTY TRUST," PREPARED BY BAXTER & NYE, INC., FILED IN THE BARNSTABLE COUNTY REGISTRY OF DEEDS AS PLAN BOOK 469, PAGE 15.
- MAP ENTITLED "PLAN OF LAND BARNSTABLE, MASS., PREPARED FOR ATLANTIC CORPORATION," PREPARED BY ROBERT G. MAGNONE, DATED MARCH 14, 1967, FILED IN THE BARNSTABLE COUNTY REGISTRY OF DEEDS AS PLAN BOOK 210, PAGE 95.
- MAP ENTITLED "PLAN OF LAND IN BARNSTABLE, MA (HYANNIS), PREPARED FOR SHIELDS MANAGEMENT CORP." PREPARED BY THE BSC GROUP, DATED NOVEMBER 28, 1986, FILED IN THE BARNSTABLE COUNTY REGISTRY OF DEEDS AS PLAN BOOK 426, PAGE 45.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY WHITNEY & BASSETT, DATED OCTOBER 11, 1948, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 13218E.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY WHITNEY & BASSETT, DATED JANUARY 1960, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 13216G.
- MAP ENTITLED "SUBDIVISION PLAN OF LAND IN BARNSTABLE." PREPARED BY WHITNEY & BASSETT, DATED JANUARY 1978, FILED IN THE BARNSTABLE COUNTY LAND REGISTRATION OFFICE AS PLAN NO. 13216H.
- MAP ENTITLED "ATLTAACSM LAND TITLE SURVEY PREPARED FOR SIMON PROPERTY GROUP, IYANNOUGH ROAD, BARNSTABLE, MASSACHUSETTS", PREPARED BY CULLINAN ENGINEERING, DATED FEBRUARY 20, 2001, LAST REVISED FEBRUARY 20, 2001.
- MAP ENTITLED "PARCELIZATION PLAN, ATLTAACSM LAND TITLE SURVEY, CAPE COD MALL, IYANNOUGH ROAD AND STATE HWY. RT. 28, BARNSTABLE (HYANNIS), MASSACHUSETTS, PREPARED FOR MAYFLOWER CAPE COD, LLC, A DELAWARE LIMITED LIABILITY COMPANY," PREPARED BY A.S. ELLIOTT ASSOCIATES, DATED NOVEMBER 10, 2010, LAST REVISED FEBRUARY 9, 2011.
- MAP ENTITLED "SITE PREPARATION PLANS, CAPE COD MALL RENOVATION, PHASE II-WEST ADDITION, HYANNIS, MA, NEW ENGLAND DEVELOPEMENT," PREPARED BY ANDERSON & NICHOLS COMPANY, INC., DATED AUGUST 10, 1998, LAST REVISED AUGUST 21, 1999.
- GAS FACILITY MAPPING PROVIDED BY NATIONAL GRID, DATED JULY 18, 2014.
- SEWER FACILITY MAPPING PROVIDED BY THE TOWN OF BARNSTABLE.
- ELECTRIC FACILITY MAPPING PROVIDED BY NSTAR, DATED JUNE 23, 2014.

EXHIBIT "A" DESCRIPTIONS

PARCEL 2:  
THOSE CERTAIN PARCELS OF LAND WITH THE IMPROVEMENTS THEREON IN HYANNIS, BARNSTABLE COUNTY, MASSACHUSETTS AND SHOWN AS LOT 11 AND LOT 12 ON SUBDIVISION PLAN NO. 297199, DATED DECEMBER 9, 1963, DRAWN BY E. KELLOGG, SURVEYOR AND FILED IN THE LAND REGISTRATION OFFICES AT BOSTON, A COPY OF WHICH IS FILED IN BARNSTABLE COUNTY REGISTRY OF DEEDS IN LAND REGISTRATION BOOK 271, PAGE 35 CERTIFICATE OF TITLE NO. 34625, BEING MORE PARTICULARLY BOUNDED AND DESCRIBED AS FOLLOWS:  
 LOT 11  
 NORTHWESTERLY: BY ENTERPRISE ROAD, ONE HUNDRED TWENTY-FIVE (125) FEET;  
 NORTHERLY: BY A PORTION OF LAND NOW OR FORMERLY OF THOMAS E. HURST, ONE HUNDRED SIXTY-FOUR AND 63/100 (164.63) FEET;  
 NORTHEASTERLY: BY A PORTION OF LAND NOW OR FORMERLY OF SAMUEL E. HURST, ONE HUNDRED SIXTY-EIGHT AND 20/100 (168.20) FEET, AND  
 SOUTHWESTERLY: BY LOT 12, TWO HUNDRED TWENTY AND 78/100 (220.76) FEET.  
 LOT 12:  
 NORTHWESTERLY: BY ENTERPRISE ROAD, ONE HUNDRED (100) FEET;  
 NORTHERLY: BY LOT 11, TWO HUNDRED TWENTY AND 78/100 (220.76) FEET;  
 NORTHEASTERLY: BY A PORTION OF LAND NOW OR FORMERLY OF SAMUEL E. HURST, ONE HUNDRED SIX AND 87/100 (106.87) FEET, AND  
 SOUTHERLY: BY LOTS 14 AND 13, TWO HUNDRED FIFTY-EIGHT AND 47/100 (258.47) FEET.  
 TOGETHER WITH APPURTENANT RIGHT OF WAY OVER ENTERPRISE ROAD AND CORPORATION STREET IN COMMON WITH OTHERS ENTITLED THERETO; ALSO A FORTY FOOT WAY ADJACENT TO LOTS 15 AND 16 IN COMMON WITH ALL OTHERS LEGALLY ENTITLED THERETO.  
 PARCEL 3:  
 THE LAND WITH THE IMPROVEMENTS THEREON, KNOWN AND NUMBERED AS 937, 939, 943 AND 947, ROUTE 132, SITUATED IN BARNSTABLE (HYANNIS), BARNSTABLE COUNTY, MASSACHUSETTS, AND SHOWN AS LOTS 10, 11, 12, 13, AND 14 ON LAND COURT PLAN NO. 13218I. SEE CERTIFICATE OF TITLE NO. 148793.  
 NOTE: PARCELS 1 & 4-13 ARE OUTSIDE THE SCOPE OF THIS SURVEY AND HAVE NOT BEEN SHOWN.

SURVEYOR'S DESCRIPTION

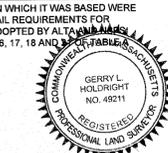
LEASE AREA  
 LOTS 18, 19 & 23 AND A 50' WIDE PRIVATE WAY  
 MAP 294  
 TOWN OF BARNSTABLE  
 BARNSTABLE COUNTY, COMMONWEALTH OF MASSACHUSETTS  
 BEGINNING AT A POINT ON THE SOUTHERLY LINE OF IYANNOUGH ROAD (A.K.A. ROUTE 132, PUBLIC - 95' WIDE) AT THE INTERSECTION WITH THE WESTERLY LINE OF NEW ENTERPRISE ROAD (A.K.A. ENTERPRISE ROAD EXTENSION, PUBLIC - VARIABLE WIDTH), THENCE ALONG SAID NEW ENTERPRISE ROAD THE FOLLOWING THREE (3) COURSES:  
 1. ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 50.00 FEET, A CENTRAL ANGLE OF 91 DEGREES - 17 MINUTES - 01 SECONDS, AN ARC LENGTH OF 79.66 FEET, ALSO BEARING A CHORD OF SOUTH 13 DEGREES - 27 MINUTES - 29 SECONDS EAST WITH A CHORD DISTANCE OF 71.50 FEET TO A POINT OF COMPOUND CURVATURE, THENCE;  
 2. ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 228.43 FEET, A CENTRAL ANGLE OF 9 DEGREES - 23 MINUTES - 00 SECONDS, AN ARC LENGTH OF 37.41 FEET, ALSO BEARING A CHORD OF SOUTH 36 DEGREES - 52 MINUTES - 31 SECONDS WEST WITH A CHORD DISTANCE OF 37.37 FEET TO A POINT OF TANGENCY, THENCE;  
 3. SOUTH 41 DEGREES - 34 MINUTES - 04 SECONDS WEST, A DISTANCE OF 201.14 FEET TO A POINT OF CURVATURE, THENCE ALONG A WAY (PRIVATE - 40' WIDE) THE FOLLOWING TWO (2) COURSES:  
 4. ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 30.00 FEET, A CENTRAL ANGLE OF 61 DEGREES - 56 MINUTES - 12 SECONDS, AN ARC LENGTH OF 32.43 FEET, ALSO BEARING A CHORD OF SOUTH 72 DEGREES - 32 MINUTES - 10 SECONDS WEST WITH A CHORD DISTANCE OF 30.87 FEET TO A POINT, THENCE;  
 5. NORTH 76 DEGREES - 29 MINUTES - 30 SECONDS WEST, A DISTANCE OF 163.38 FEET TO A POINT, THENCE DEPARTING SAID WAY ALONG THE DIVIDING LINE OF LOT 23, MAP 294 AND LOT 25, MAP 294 (N/F LANDS OF INDEPENDENCE PARK INC.) WITH LOT 26, BLOCK 00A, MAP 294 (N/F LANDS OF NEWMARKET PLACE LP);  
 6. NORTH 13 DEGREES - 30 MINUTES - 30 SECONDS EAST, A DISTANCE OF 249.94 FEET TO A POINT, THENCE ALONG THE DIVIDING LINE BETWEEN LOT 23, MAP 294 AND LOT 25, MAP 294 (N/F LANDS OF 955 IYANNOUGH RD LLC);  
 7. SOUTH 76 DEGREES - 29 MINUTES - 30 SECONDS EAST, A DISTANCE OF 80.00 FEET TO A POINT, THENCE ALONG THE DIVIDING LINE BETWEEN A WAY (PRIVATE - 50' WIDE) AND LOT 25, MAP 294;  
 8. NORTH 13 DEGREES - 30 MINUTES - 30 SECONDS EAST, A DISTANCE OF 100.00 FEET TO A POINT AT THE SOUTHERLY LINE OF SAID IYANNOUGH ROAD, THENCE ALONG SAID IYANNOUGH ROAD;  
 9. SOUTH 89 DEGREES - 08 MINUTES - 00 SECONDS EAST, A DISTANCE OF 195.80 FEET TO THE POINT AND PLACE OF BEGINNING.  
 CONTAINING 75,946 SQUARE FEET OR 1.743 ACRES.

THIS SURVEY IS CERTIFIED TO:  
 CHICK-FIL-A, INC.  
 CHICAGO TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT WAS BASED WERE MADE IN ACCORDANCE WITH THE "2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS", JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND ACSM THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 22, 2014.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL.

GERRY L. HOLDRIGHT  
 MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211



4	REMOVED OLD ENCROACHMENT C	NA	GLH	GLH	4-24-15
3	UPDATED TITLE COMMITMENT	NA	J.B./D.N.	J.L.L.	3-18-15
2	REVISED PER ATTORNEY COMMENTS	NA	J.M.B.	A.J.L.	1-8-15
1	REVISED PER ATTORNEY COMMENTS	NA	J.L.S.	A.J.L.	10-30-14
No.	DESCRIPTION OF REVISION	FIELD CREW	DRAWN	APPROVED	DATE
FIELD DATE	7-22-14	ALTA/ACSM LAND TITLE SURVEY			
FIELD BOOK NO.	1404MA	CHICK-FIL-A			
FIELD BOOK PG.	22-23	921 IYANNOUGH ROAD 104 ENTERPRISE ROAD MAP 294, LOTS 18, 19 & 23 TOWN OF BARNSTABLE, BARNSTABLE COUNTY COMMONWEALTH OF MASSACHUSETTS			
FIELD CREW	T.M.	CONTROL POINT ASSOCIATES, INC.			
DRAWN	INDO-SND	355 TURNPIKE ROAD SOUTHBOROUGH, MA 01772 508.948.3000 - 508.948.3003 FAX WARREN, NJ 908.668.0099 CHALFONT, PA 215.712.9800			
REVIEWED	J.L.L.	APPROVED	DATE	SCALE	FILE NO.
		G.L.H.	8-14-14	1"=40'	CM14146
					3 OF 3





**REVISIONS**

#	DATE	COMMENT	BY
1	9/15/15	INITIAL SP REVIEW COMMENTS	JNF
2	10/22/15	GMP MEETING COMMENTS	JNF
3	12/2/15	ZBA & VHB COMMENTS	JNF
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**W.D. GOEBEL**

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 FLORIDA LICENSE NO. 66322

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**STORE #03545**  
**S08H-MODIFIED-NL**  
 104 ENTERPRISE ROAD  
 VILLAGE OF HYANNIS  
 BARNSTABLE COUNTY  
 MASSACHUSETTS  
 MAP #294, LOT #18, 19, 23

SHEET TITLE

**SITE PLAN**

DWG EDITION **02.4**

- Preliminary
- 80% Submittal
- For Construction

Job No. : W141096  
 Store : 03545  
 Date : 08/27/15  
 Drawn By : CFD/JNF  
 Checked By : DML/JGS

Sheet

**C-2.0**

**ZONING ANALYSIS TABLE**

ZONING DISTRICT	REQUIRED	EXISTING	PROPOSED
SHOPPING CENTER REDEVELOPMENT OVERLAY DISTRICT (SCROD) SUPERCEDES UNDERLYING HIGHWAY BUSINESS DISTRICT DT RESTAURANTS PROHIBITED WITHIN SCROD			
ZONE CRITERIA			
MINIMUM LOT AREA OF INDIVIDUAL LOTS	NONE	75,947 SF	NO CHANGE
MINIMUM LOT WIDTH	20'	> 20'	NO CHANGE
MAX. BUILDING COVERAGE OF SCROD AREA	50%	< 50%	< 50%
MIN. FRONT SETBACK	100' ALONG ROUTE 132 30' ALONG ENTERPRISE	N/A	56.3' TO ROUTE 132 32.3' TO ENTERPRISE
MIN. SIDE SETBACK	30'	N/A	> 30'
MIN. REAR SETBACK	30'	N/A	> 30'
MAX. BUILDING HEIGHT	2 STORIES / 42.5'	N/A	1 STORY / 12.5'
IMPERVIOUS COVERAGE OF SCROD AREA	70%	78% (59,418 S.F.)	66% (49,832 S.F.) *
PARKING SPACES	20	161	60
PARKING CRITERIA (9x18)	4.3 SPACES REQUIRED PER 1,000 SF G.L.A. (SCROD) #4,754 SF / 1,000 X 4.3 = 20.44 SAY 20 PARKING SPACES REQUIRED		
ACCESSIBLE PARKING SPACES	3	N/A	3
ACCESSIBLE PARKING CRITERIA (STANDARD SPACE- 8'x18' W/ 5' ACCESS AISLE) (VAN ACCESSIBLE SPACE- 8'x18' W/ 8' ACCESS AISLE)	TOTAL PARKING 51 TO 75 = 3 ACCESSIBLE SPACES VAN ACCESSIBLE SPACES= 1 / 6 SPACES		

\* THE PROPOSED DEVELOPMENT WILL RESULT IN A REDUCTION OF IMPERVIOUS SURFACES BY **9,586 S.F.**

**MATERIALS LEGEND:**

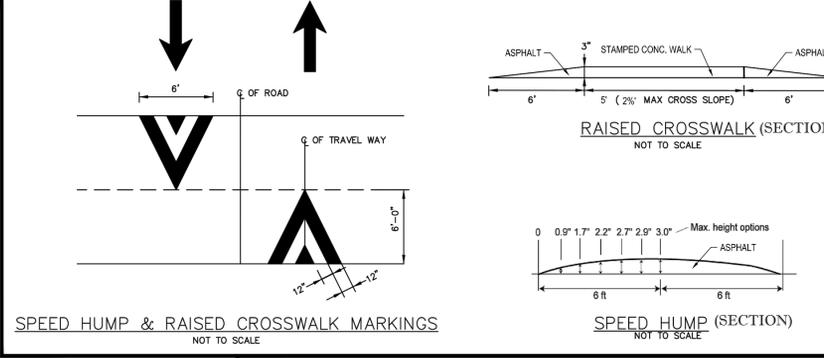
TYPE	COLOR	STAMP PATTERN
A	DARK GRAY	CLASSIC COBBLE

**LAND USE / ZONING INFORMATION & NOTES**

- APPLICANT:  
CHICK-FIL-A, C/O BOHLER ENGINEERING  
352 TURNPIKE ROAD  
SOUTHBOROUGH, MA 01772
- OWNERS:  
CAPE COD MALL LLC (LOT #18)  
MAYFLOWER CAPE COD LLC (LOTS #19,23)
- PARCEL:  
MAP #294, LOT #18, 19, 23  
104 ENTERPRISE ROAD  
HYANNIS  
BARNSTABLE COUNTY, MASSACHUSETTS

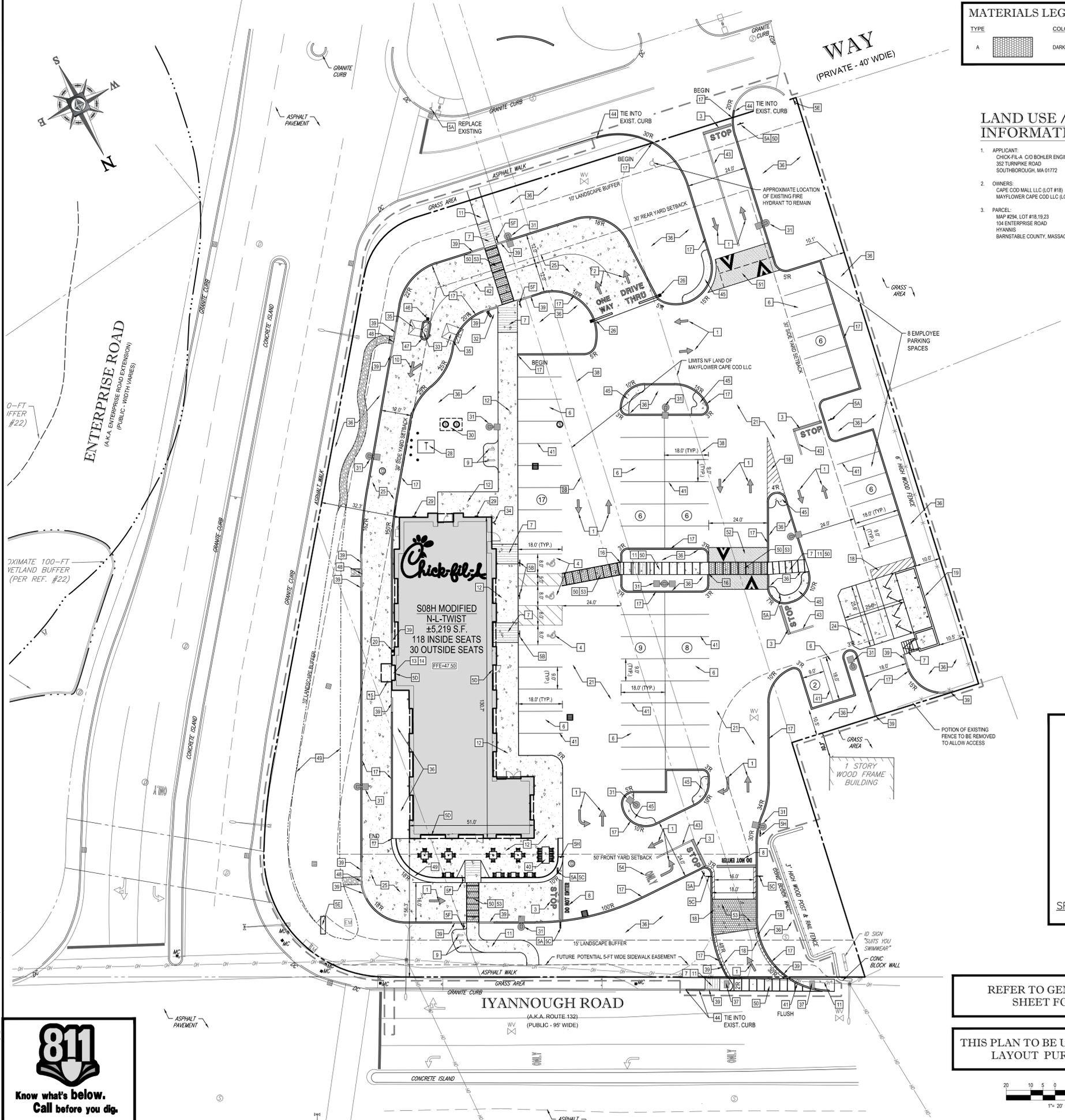
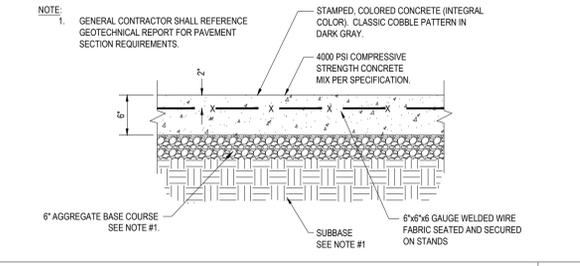
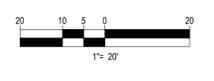
**SITE PLAN DESIGN NOTES & KEY PLAN**

- DIRECTIONAL ARROW
- DRIVE-THRU GRAPHICS
- STOP LINE GRAPHIC
- PAINTED HANDICAP PARKING SYMBOL
- DIRECTIONAL SIGNAGE  
ALL SIGNS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" BY THE U.S. DEPARTMENT OF TRANSPORTATION
- STOP SIGN
- HANDICAP SIGN WITH BOLLARD BASE
- "DO NOT ENTER" SIGN
- "NO RIGHT TURN" SIGN
- "PRIVATE DRIVE NO TRESPASSING" SIGN
- IDENTITY SIGNAGE  
ALL SIGNS SHALL CONFORM TO PLANS ENTITLED, "SIGN SURVEY" C/O AT HYANNIS, MA STORE #3545 PREPARED BY ANCHOR SIGN DATED 08/05/14.
- CHANNEL LETTER SIGN (ILLUMINATED 48" - "CHICK-FIL-A" - 23.33 SF)
- MONUMENT SIGN (ILLUMINATED - "CHICK-FIL-A" - 23.33 SF)
- PEDESTRIAN CROSSWALK SIGN
- "NO RIGHT TURN" SIGN
- STANDARD PARKING STALL (9'x18')
- SIDEWALK ACCESSIBLE RAMP
- STOP LINE / DO NOT ENTER GRAPHIC
- BIKE RACK
- DRIVE-THRU DIRECTIONAL GRAPHICS
- TYPICAL 5' WIDE CONCRETE SIDEWALK
- MONOLITHIC CURB & SIDEWALK
- DRIVE-THRU PLAN (SEE DETAIL)
- DRIVE-THRU ISOMETRIC (SEE DETAIL)
- CANOPY / AWNING
- 5' WIDE CURB BREAK
- PRE-CAST CONCRETE CURB
- STRIPED ISLAND (4" SWSL 2 O.C. @ 45°)
- REFUSE ENCLOSURE FOUNDATION (REFER TO ARCHITECTURAL PLANS)
- PICK UP / WINDOW BOLLARD
- TYPICAL PAVEMENT SECTION (SEE DETAIL)
- TRANSVERSE & LONGITUDINAL CONTRACTION JOINT (NOT SHOWN)
- TRANSVERSE & LONGITUDINAL DOWELED CONTR. JOINT (NOT SHOWN)
- CONCRETE APRON @ TRASH ENCLOSURE
- CONCRETE PAVING @ DRIVE THRU LANE
- CLEARANCE BAR
- (NOT USED)
- TRANSFORMER WITH BOLLARDS
- ROOF DOWNSPOUT (TO CONNECT TO SITE DRAINAGE SYSTEM)
- GREASE TRAP
- AREA LIGHT
- PRE-SELL MENUBOARD
- MENU BOARD & CANOPY ORDERING STATION
- FIRE DEPARTMENT CONNECTION
- MENU-BOARD LOOP DETECTOR SYSTEM
- LANDSCAPED AREA
- DETECTABLE WARNING PANEL
- INTERIOR PROPERTY LINE
- TRANSITION CURB
- SEASONAL OUTDOOR SEATING AREA (REFER TO ARCHITECTURAL PLANS)
- 4" WIDE WHITE STRIPE
- 4" WIDE YELLOW STRIPE
- 4" WIDE DOUBLE YELLOW LANE
- GRANITE CURB
- LANDSCAPE AND IRRIGATION PROTECTION
- DRIVE-THRU ORDER POINT BOLLARD
- DRIVE-THRU ORDER POINT ISLAND CURB
- 3' WIDE CURB BREAK
- SEATING WALL (REFER TO ARCHITECTURAL PLANS)
- 5' WIDE PAINTED CROSSWALK
- ASPHALT SPEED HUMP
- RAISED 5' WIDE CROSSWALK (SEE DETAIL)
- STAMPED CONCRETE (SEE DETAIL)
- LEFT ONLY GRAPHIC



REFER TO GENERAL NOTES SHEET FOR NOTES

THIS PLAN TO BE UTILIZED FOR SITE LAYOUT PURPOSES ONLY



**811**  
 Know what's below.  
 Call before you dig.

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REVISIONS			
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**W.D. GOEBEL**

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 RHODE ISLAND LICENSE NO. 7268  
 CONNECTICUT LICENSE NO. 21854  
 NEW HAMPSHIRE LICENSE NO. 10080  
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STORE #03545  
 S08H-MODIFIED-N-L  
 104 ENTERPRISE ROAD  
 VILLAGE OF HYANNIS  
 BARNSTABLE COUNTY  
 MASSACHUSETTS  
 MAP #294, LOT #18,19,23

SHEET TITLE  
**GRADING & DRAINAGE PLAN**  
 DWG EDITION 02.4

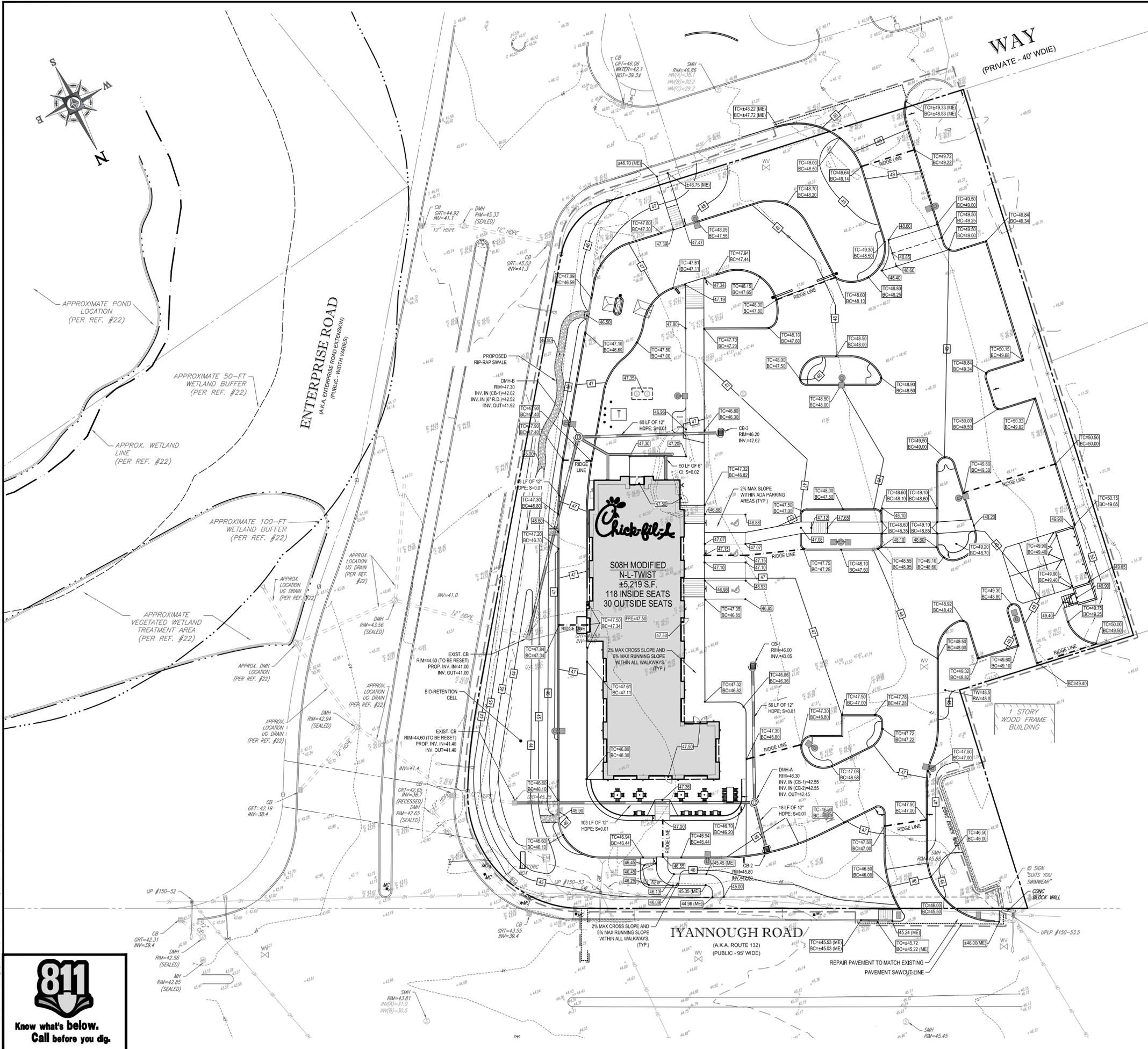
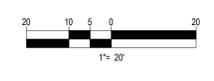
Preliminary  
 80% Submittal  
 For Construction

Job No. : W141096  
 Store : 03545  
 Date : 08/27/15  
 Drawn By : CDF/JNF  
 Checked By : DML/JGS

Sheet  
**C-3.0**

SUMMARY OF DRAINAGE CALCULATIONS				
<b>*C* BEFORE EXISTING SITE</b>				
CONDITION	AREA (SF)	%	COEFF.	FRACT. COMP.
ASPHALT/BUILDING	59,418	78.2%	0.9	0.70
LANDSCAPE / GRASS	16,528	21.8%	0.3	0.07
TOTAL	75,946	100.00%	*C* COMPOS.	=0.77
<b>*C* AFTER PROPOSED SITE</b>				
CONDITION	AREA (SF)	%	COEFF.	FRACT. COMP.
ASPHALT/BUILDING	49,832	66.0%	0.9	0.59
LANDSCAPE / GRASS	26,114	34.0%	0.3	0.10
TOTAL	75,946	100.00%	*C* COMPOS.	=0.69
<b>APPROXIMATE TIME OF CONCENTRATIONS &amp; STORM INTENSITIES</b>				
TC = 5 MIN. (TIME OF CONCENTRATION - EXISTING)				
TC = 5 MIN. (TIME OF CONCENTRATION - PROPOSED)				
1 = 3.5 IN./HR. (2 YR. STORM INTENSITY)				
1 = 4.5 IN./HR. (10 YR. STORM INTENSITY)				
1 = 5.5 IN./HR. (25 YR. STORM INTENSITY)				
1 = 6.7 IN./HR. (100 YR. STORM INTENSITY)				
<b>DETERMINE OFF-SITE RUNOFF - TOTAL SITE:</b>				
*C* EXISTING = *C* COMP. X I X AREA =	4.42	6.03	7.10	8.88
*C* PROP. = *C* COMP. X I X AREA =	3.96	5.40	6.36	8.04
NET DECREASE IN RUNOFF =	-0.46	-0.63	-0.74	-0.84
NOTE: NO INCREASE IN RUNOFF DUE TO INCREASE PERVIOUS SURFACES (9,285 SF).				
DUE TO A NET DECREASE IN RUNOFF, NO DETENTION IS PROPOSED. DRAINAGE IMPROVEMENTS INCLUDE DEEP SWAMP CATCH BASINS WITH OILWATER HOODS AND PREVENTING STORMWATER FROM SHEETFLOWING ONTO ADJACENT ROADWAYS AND PROPERTIES				

THIS PLAN TO BE UTILIZED FOR SITE GRADING PURPOSES ONLY



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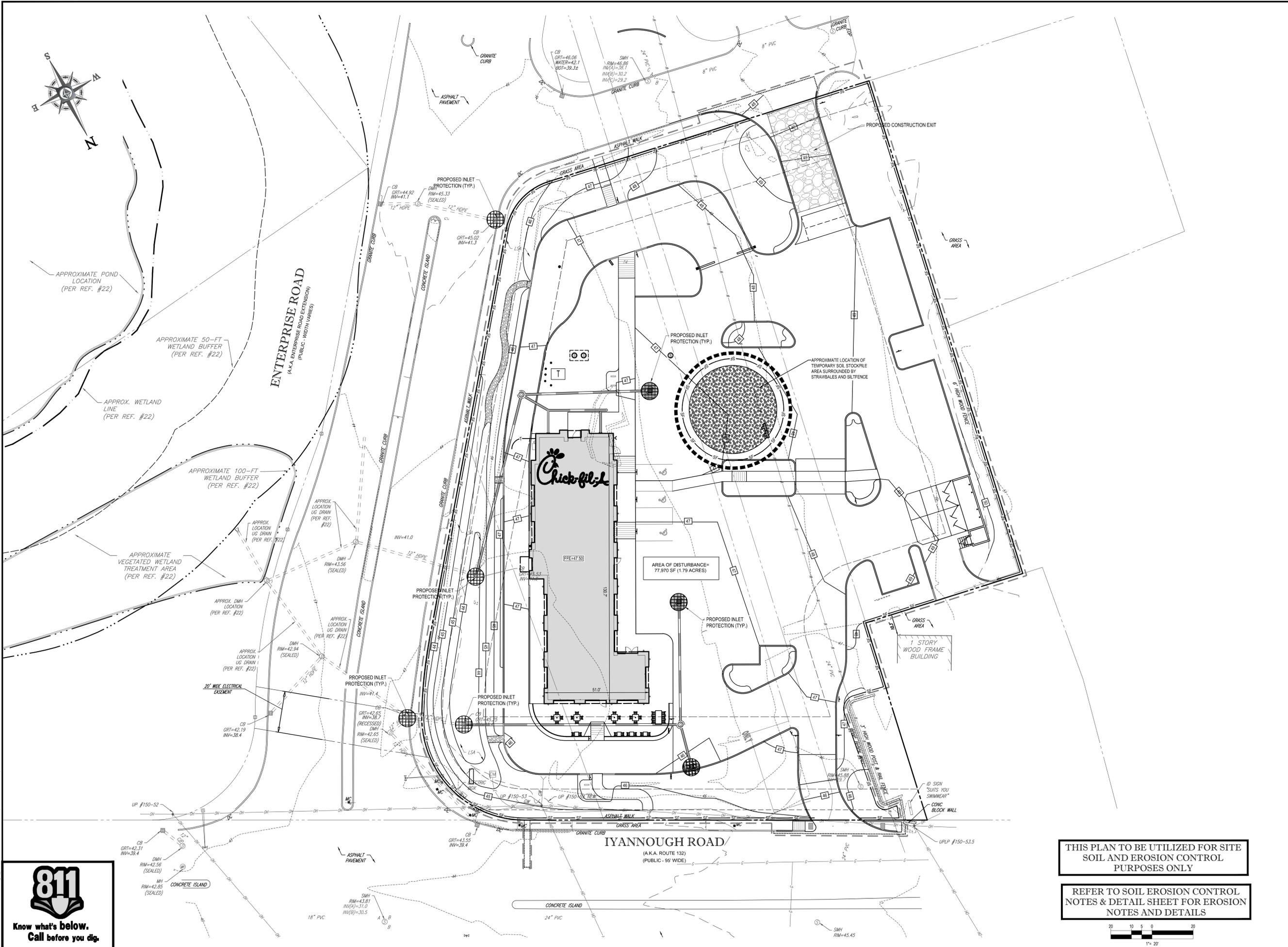
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STORE #03545  
 S08H-MODIFIED-N-L  
 104 ENTERPRISE ROAD  
 VILLAGE OF HYANNIS  
 BARNSTABLE COUNTY  
 MASSACHUSETTS  
 MAP #294, LOT #18,19,23

SHEET TITLE  
**SOIL EROSION  
 & SEDIMENT  
 CONTROL PLAN**  
 DWG EDITION 02.4

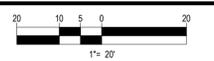
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 Store : 03545  
 Date : 08/27/15  
 Drawn By : CFD/JNF  
 Checked By : DML/JGS

Sheet  
**C-3.1**



THIS PLAN TO BE UTILIZED FOR SITE  
 SOIL AND EROSION CONTROL  
 PURPOSES ONLY

REFER TO SOIL EROSION CONTROL  
 NOTES & DETAIL SHEET FOR EROSION  
 NOTES AND DETAILS



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## EROSION & SEDIMENT CONTROL NOTES

- ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE "EROSION AND SEDIMENT CONTROL HANDBOOK" PUBLISHED BY THE U.S.D.A. SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT, 1972, AS AMENDED.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 10 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- INSTALL SILT FENCE AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT, THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP/SLOPE ARE STABILIZED BY TURF.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
- REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
  - FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 48% KENTUCKY BLUEGRASS, 14% GREENING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY 500 MAY BE SUBSTITUTED FOR SEED.
  - HAY MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- WETLANDS WILL BE PROTECTED WITH STRAW BALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

### MULCH

LOCATION PROTECT AREA	MULCH STRAW OR HAY	RATE (1000 SF)
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW OR HAY (ANCHORED)*	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELISOR MAT	AS REQUIRED
GREATER THAN 3:1	(REFER TO GEOTECHNICAL REPORT FOR FINAL DESIGN REQUIREMENT)	

\* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

**MULCH ANCHORING**  
ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD. BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (75# BASKETS); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

## EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

- WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
- WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- EXPOSED AREA SHOULD BE LIMITED TO THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 LB PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
- BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDING AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOADED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDING AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNPROTECTED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- MULCHING REQUIREMENTS:
  - BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
  - AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
  - DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
  - STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
  - EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

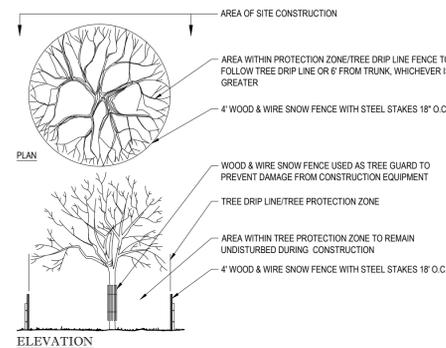
## CONSTRUCTION SEQUENCE

THE FOLLOWING CONSTRUCTION SEQUENCE IS RECOMMENDED:

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
- INSTALLATION OF INLET PROTECTION (AS REQUIRED TO KEEP SEDIMENT OUT OF DEVELOPMENT SYSTEM)
- DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
- CLEARING AND REMOVAL OF TREES AND TOPSOIL
- INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS (AS NECESSARY)
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF INLET PROTECTION ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF BUILDING
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
- FINAL GRADING OF ALL SLOPED AREAS PER GRADING PLAN
- PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH SEED MIXTURE TO BE INSTALLED REQUIRED.
- REMOVAL OF THE TEMPORARY SEDIMENT BASINS
- PAVE PARKING LOT
- LANDSCAPING PER LANDSCAPING PLAN
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION OR GREATER

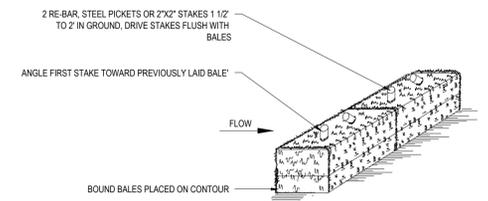
## TREE PROTECTION DURING CONSTRUCTION

N.T.S.



## STRAW BALE DETAIL

N.T.S.

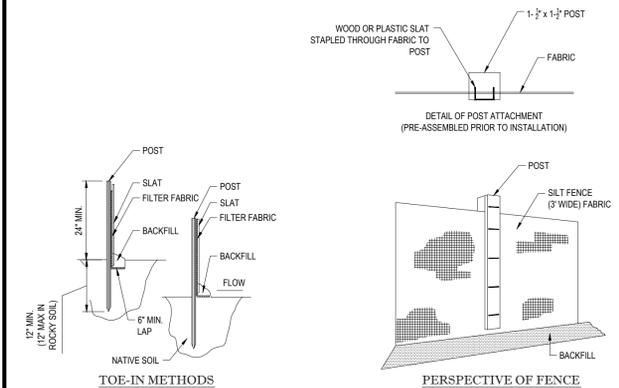


DRAINAGE AREA NO MORE THAN 1/4 AC. PER 100 FEET OF STRAW BALE DIKE FOR SLOPES LESS THAN 25%

- NOTES:
- BALES SHALL BE PLACED AT THE TOP OF A SLOPE OR ON THE CONTOUR AND IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
  - EACH BALE SHALL BE PLACED SO THE BINDINGS ARE HORIZONTAL.
  - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR RE-BARS DRIVEN THROUGH THE BALE. THE FIRST STAKE IN EACH BALE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
  - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
  - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

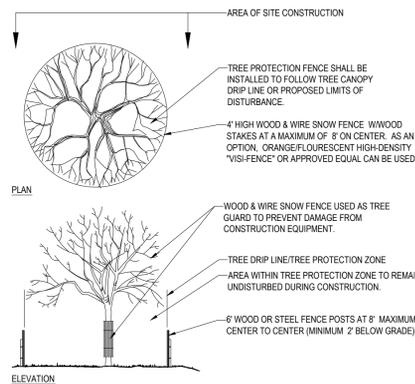
INSTALLATION:

- EXCAVATE A 6"x6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
- UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
- DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
- LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PILING & TAMPING FILL AT THE BASE.



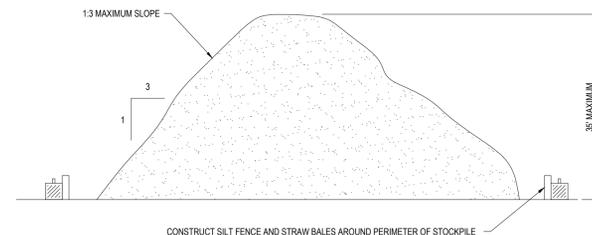
## TREE PROTECTION DURING SITE CONSTRUCTION

N.T.S.



## TEMPORARY STOCKPILE DETAIL

N.T.S.



## TYP. SILTATION FENCE DETAIL

N.T.S.

LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4655	120 LBS
UV RESISTANCE	ASTM D-4365	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC-1

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	395 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4633	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4655	46 LBS
UV RESISTANCE	ASTM D-4365	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

- REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN.
- GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
- PLACE AN OIL ABSORBENT PAD OR FLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
- INSPECT PER REGULATORY REQUIREMENTS.
- THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
- THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
- THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.  
TO BE USED IN EXISTING RIGHT OF WAY

N.T.S.

CHART 1

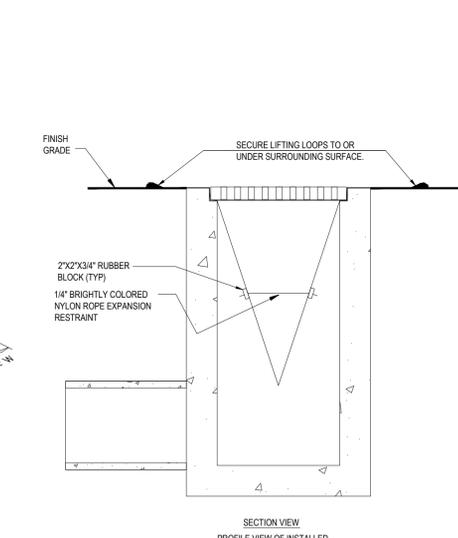
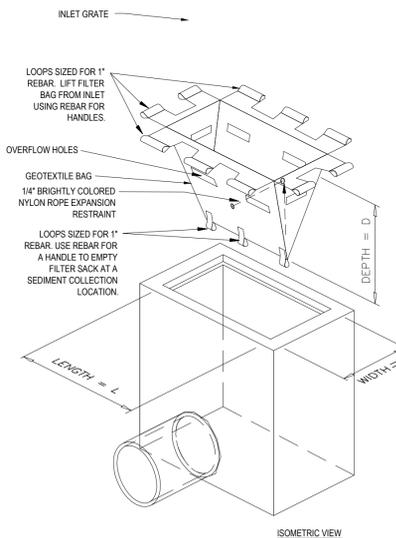
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

- MAINTENANCE NOTES:
- INSPECT STABILIZED CONSTRUCTION ENTRANCE / ANTI-TRACKING PAD AND SEDIMENT DISPOSAL AREA WEEKLY OF AFTER EVERY MAJOR RAIN STORM EVENT. WASH WATER (IF USED) SHALL BE DIRECTED TOWARD A SEDIMENT TRAP, SUFFICIENTLY SIZED FOR SPECIFIC SITE CONDITIONS.
  - EXCESSIVELY MUD-CLOGGED STONE SHALL BE REMOVED AND REPLACED, AS NEEDED.

## STABILIZED CONSTRUCTION EXIT

N.T.S.



## FILTER SACKS (GRATED INLETS)

N.T.S.



Know what's below.  
Call before you dig.



### REVISIONS

#	DATE	COMMENT	BY
1	9/15/15	INITIAL SP REVIEW COMMENTS	JNF
2	10/22/15	GMP MEETING COMMENTS	JNF
3	12/2/15	ZBA & VHB COMMENTS	JNF
4			
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14			

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MAINE LICENSE NO. 8490  
NEW YORK LICENSE NO. 027584-1  
FLORIDA LICENSE NO. 66302

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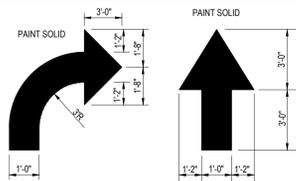
STORE #03545  
S08H-MODIFIED-NL  
104 ENTERPRISE ROAD  
VILLAGE OF HYANNIS  
BARNSTABLE COUNTY  
MASSACHUSETTS  
MAP #294, LOT #18, 19, 23

SHEET TITLE  
**SOIL EROSION CONTROL NOTES & DETAILS SHEET**  
DWG EDITION 02.4

- Preliminary
- 80% Submittal
- For Construction

Job No. : W141096  
Store : 03545  
Date : 08/27/15  
Drawn By : CFD/JNF  
Checked By : DML/JGS

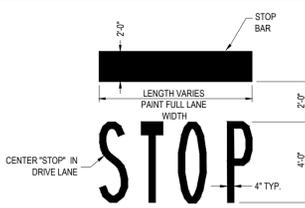
Sheet  
**C-3.2**



**NOTES:**  
 1. GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL.  
 2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

1 C-4.0 DIRECTIONAL ARROW

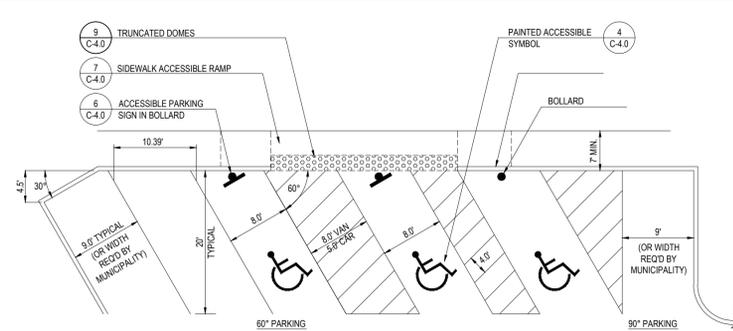
N.T.S.



**NOTES:**  
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 2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

3 C-4.0 STOP LINE GRAPHIC

N.T.S.



**PARKING LOT STRIPING SPECIFICATIONS:**

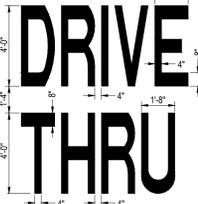
**STANDARDS:**  
 1. ALWAYS FOLLOW ALL APPLICABLE GOVERNING AUTHORITY'S STANDARDS.  
 2. SURFACES SHOULD BE CLEAN, DRY, AND FREE FROM LOOSE OR PEELING PAINT. REMOVE ALL OIL, GREASE, DIRT, AND OTHER FOREIGN MATERIAL TO ENSURE ADEQUATE ADHESION. DO NOT APPLY WHEN AIR OR SURFACE TEMPERATURES ARE BELOW 40°F.  
 3. APPLY SHERWIN-WILLIAMS SETFAST PREMIUM ALKYD ZONE MARKING PAINT A300 WHITE OR A303 YELLOW USING EITHER AIRLESS OR CONVENTIONAL LINE STRIPING EQUIPMENT. USE THE FOLLOWING SETTINGS AS A GUIDE-ACTUAL SETTINGS DEPEND ON ATMOSPHERIC CONDITIONS AT THE TIME OF APPLICATION.

**AIRLESS:**  
 • PRESSURE: 1800-2700 PSI  
 • HOSE: 1/2" ID  
 • TIP: 0.015"-0.017"  
 • FILTER: 60 MESH  
 • REDUCTION: ONLY IF NECESSARY, UP TO 1PT/GAL VM&P NAPHTHA R1K3

**CONVENTIONAL:**  
 • GUN: BLINKS 21 (BLEEDER) OR EQUIVALENT  
 • FLUID NOZZLE: #88  
 • AIR NOZZLE: INTERNAL MIX, #709  
 • ATOMIZATION PRESSURE: 45-60 PSI  
 • FLUID PRESSURE: 40-70 PSI  
 • REDUCTION: ONLY IF NECESSARY, UP TO 1PT/GAL VM&P NAPHTHA R1K3

5 C-4.0 STANDARD PARKING STALL

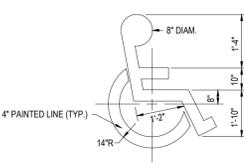
N.T.S.



**NOTES:**  
 1. GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL.  
 2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE.

2 C-4.0 DRIVE-THRU GRAPHICS

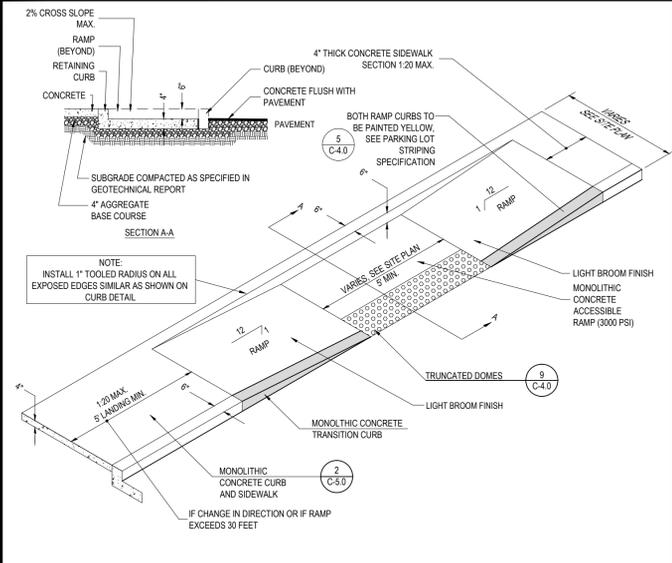
N.T.S.



**NOTES:**  
 1. GENERAL CONTRACTOR SHALL REFER TO CHICK-FIL-A PARKING LOT STRIPING SPECIFICATIONS, SEE DETAIL.  
 2. CONTRACTOR SHALL USE WHITE REFLECTIVE PAINT ON ASPHALT & YELLOW REFLECTIVE PAINT ON CONCRETE, UNLESS UPON VERIFICATION BY THE GENERAL CONTRACTOR IT IS DETERMINED THAT LOCAL, STATE, OR ADA CODES DIFFER, IN WHICH CASE THESE CODES SHALL GOVERN.

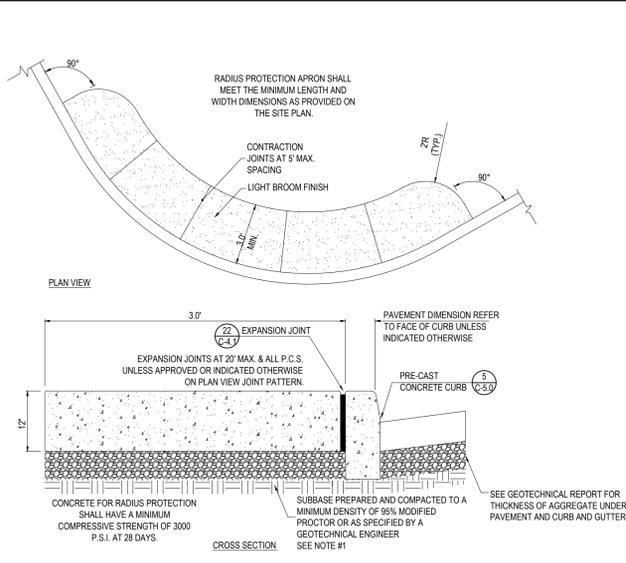
4 C-4.0 PAINTED ACCESSIBLE SYMBOL

N.T.S.



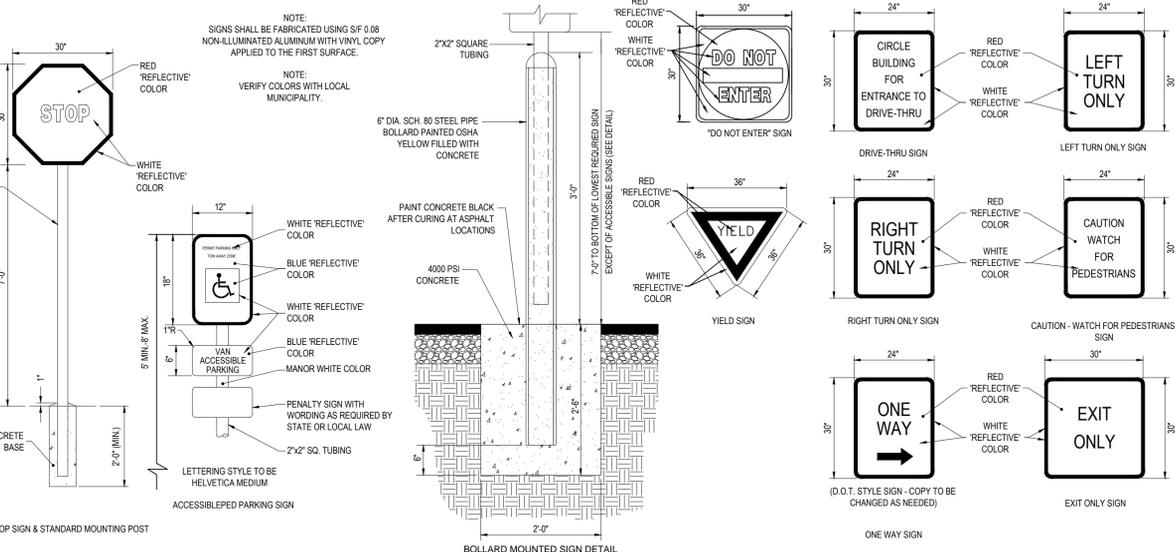
7 C-4.0 SIDEWALK ACCESSIBLE RAMP

N.T.S.



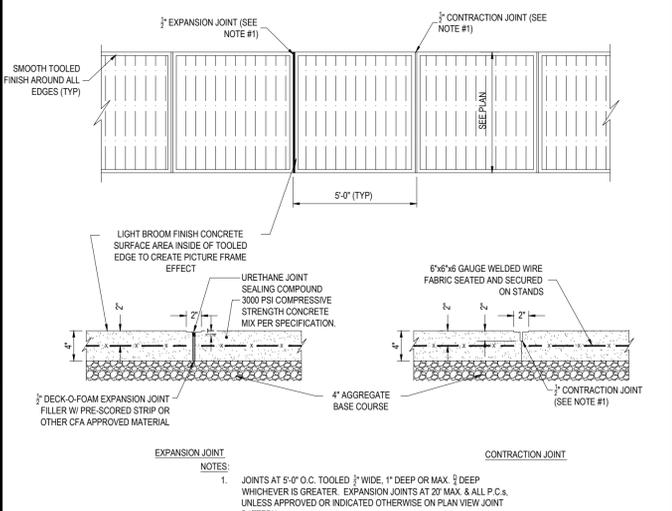
8 C-4.0 LANDSCAPE & IRRIGATION PROTECTOR

N.T.S.



6 C-4.0 DIRECTIONAL SIGNAGE

N.T.S.



9 C-4.0 TYPICAL CONCRETE SIDEWALK

N.T.S.

**NOTE:**  
 THE INFORMATION SHOWN ON THIS DETAIL SHEET REPRESENTS PROTOTYPICAL DESIGN DETAILS PROVIDED TO OUR OFFICE BY CHICK-FIL-A. THE DETAILED INFORMATION SHOWN HEREON IS INCLUDED WITHIN THIS PLAN PACKAGE AT CHICK-FIL-A'S REQUEST AND IS PRESENTED BY BOHLER ENGINEERING AS BEING FOR INFORMATIONAL PURPOSES ONLY. THE ADEQUACY OF THE DESIGN OF THESE DETAILS HAS NOT BEEN CONFIRMED BY BOHLER ENGINEERING. BOHLER ENGINEERING HAS NOT PREPARED, RECEIVED NOR REVIEWED ANY SITE SPECIFIC DESIGN INFORMATION AS IT RELATES TO THE DEVELOPMENT OF THESE DETAILS NOR CONFIRMED THE ADEQUACY OF SAME FOR USE IN CONSTRUCTION OR COMPLIANCE WITH APPLICABLE CODES. BOHLER ENGINEERING SHALL BE HELD HARMLESS FOR THE USE AND IMPLEMENTATION OF THESE DETAILS AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE GENERAL DESIGN INTENT SHOWN IS CONSTRUCTED IN SUCH A MANNER AS TO CONFORM WITH ALL APPLICABLE CODES, REQUIREMENTS, INDUSTRY STANDARDS AND THAT THE INSTALLATION OF SAME IS ADEQUATE FOR SITE, SOIL AND/OR CONSTRUCTION CONDITIONS. SHOULD CONDITIONS OR CODE REQUIREMENTS WARRANT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE A LICENSED REGISTERED PROFESSIONAL PREPARE SITE SPECIFIC DESIGNS AND DETAILS PRIOR TO COMMENCING WORK.



**REVISIONS**

#	DATE	COMMENT	BY
1	9/15/15	INITIAL SP REVIEW COMMENTS	JNF
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**STORE #03545**  
 S08H-MODIFIED-NL  
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 VILLAGE OF HYANNIS  
 BARNSTABLE COUNTY  
 MASSACHUSETTS  
 MAP #294, LOT #18,19,23

**SHEET TITLE**  
 CHICK-FIL-A STANDARD DETAILS  
 DWG EDITION 02.4

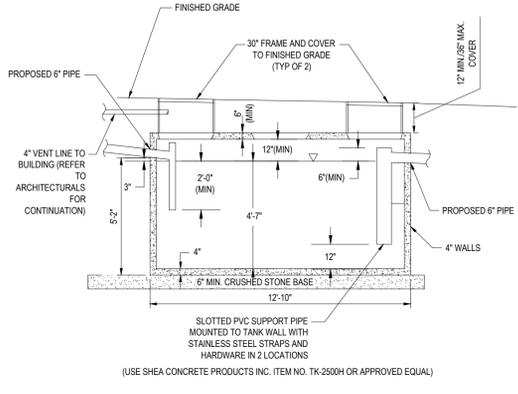
Preliminary  
 80% Submittal  
 For Construction

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 Date : 08/27/15  
 Drawn By : CFD/JNF  
 Checked By : DML/JGS

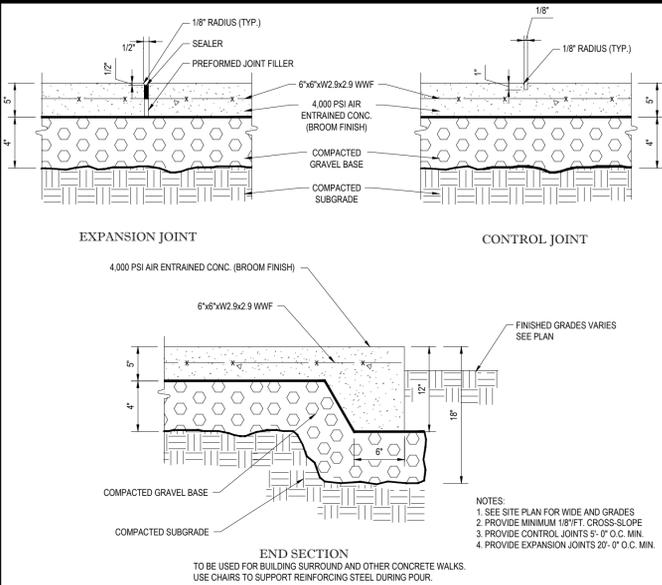
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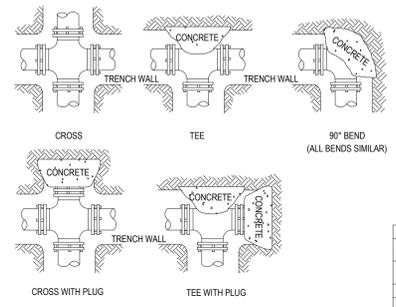




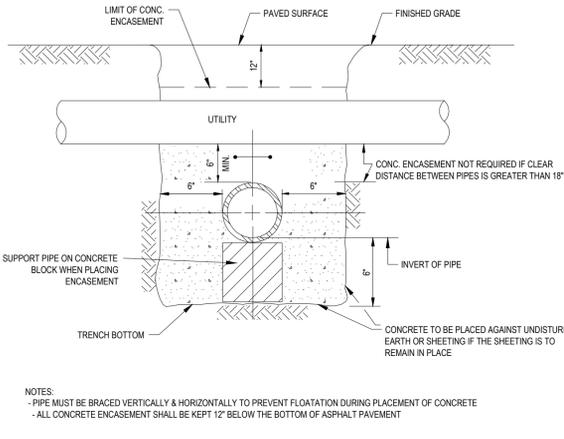
2500 GALLON GREASE TRAP DETAIL



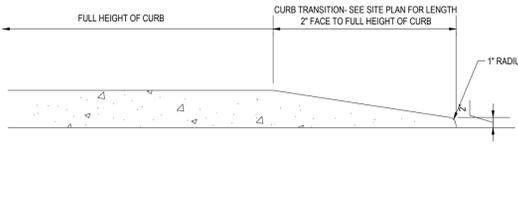
MONOLITHIC CONC. SIDEWALK DETAILS



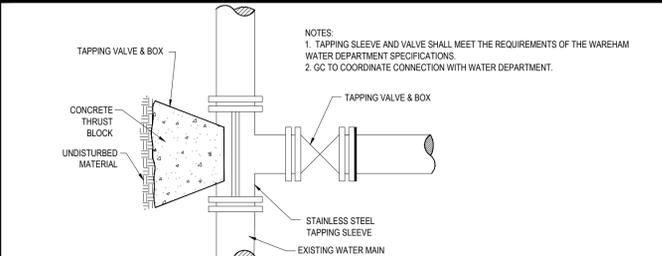
THRUST BLOCKING



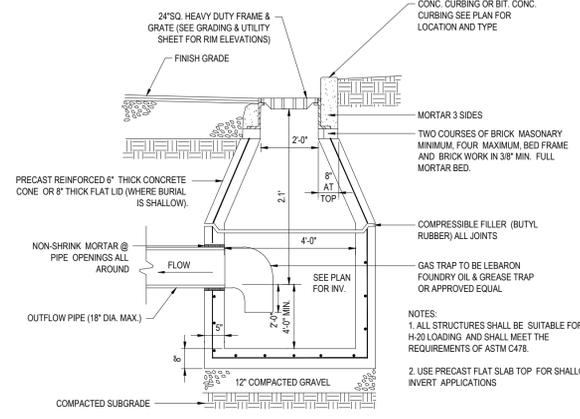
CONCRETE ENCASEMENT DETAIL AT UTILITY CROSSING



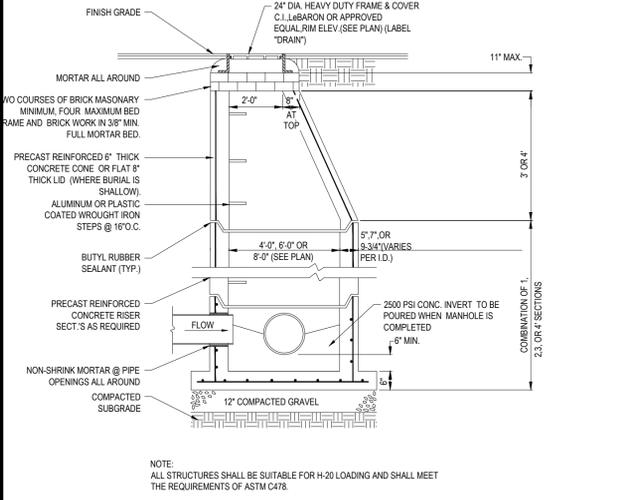
TRANSITION CURB DETAIL



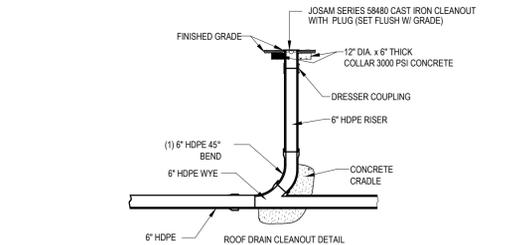
TAPPING SLEEVE & GATE VALVE DETAIL



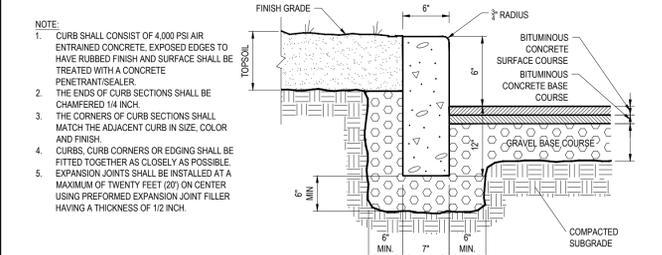
PRECAST CONCRETE DEEP SUMP CATCH BASIN DETAIL



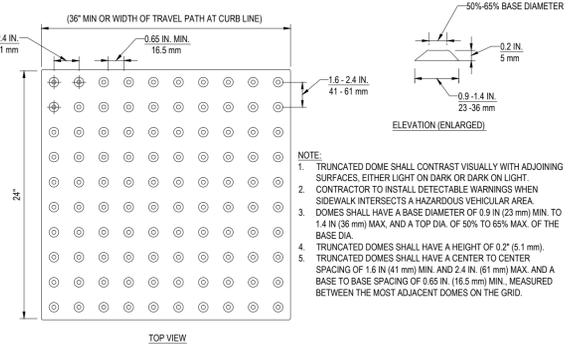
TYP. PRECAST CONCRETE MANHOLE STORM DRAIN



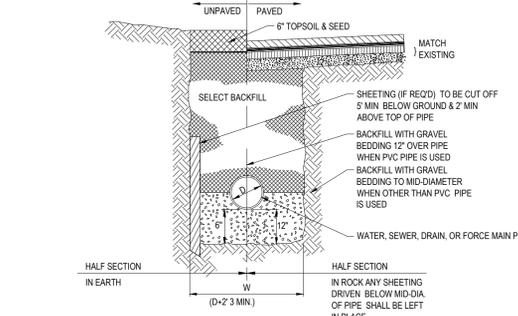
CLEANOUT DETAIL



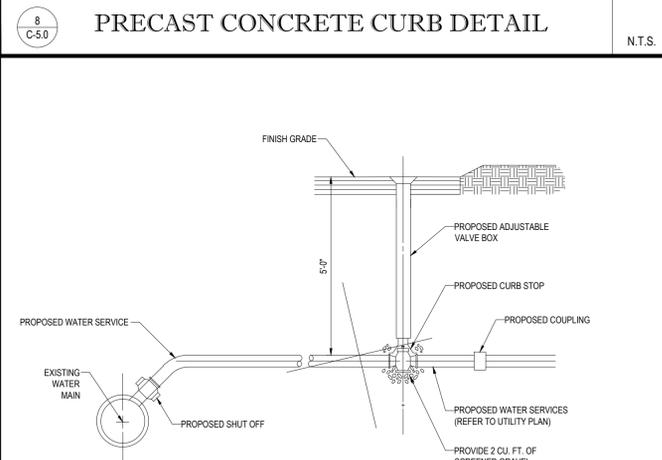
PRECAST CONCRETE CURB DETAIL



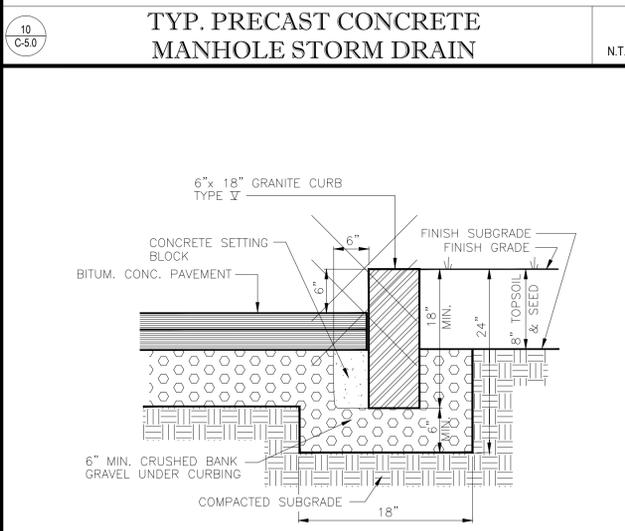
TRUNCATED DOME PATTERN



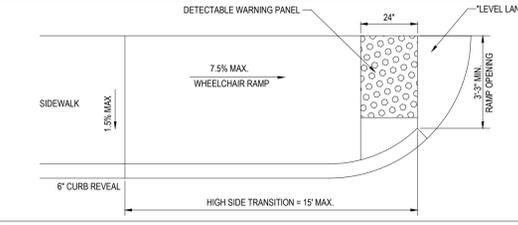
TYPICAL UTILITY TRENCH



SERVICE CONNECTION DETAIL



TYPICAL VERTICAL GRANITE CURB



TYPICAL WHEELCHAIR RAMP



REVISIONS

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1	9/15/15	INITIAL SP REVIEW COMMENTS	JNF
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W.D. GOEBEL

PROFESSIONAL ENGINEER  
 MASSACHUSETTS LICENSE NO. 4284  
 RHODE ISLAND LICENSE NO. 2088  
 CONNECTICUT LICENSE NO. 2184  
 NEW HAMPSHIRE LICENSE NO. 10268  
 MAINE LICENSE NO. 8480  
 NEW YORK LICENSE NO. 027284-1  
 FLORIDA LICENSE NO. 96322

**BOHLER ENGINEERING**  
 352 TURNPIKE ROAD  
 SOUTHBOROUGH, MA 01772  
 Phone: (508) 480-9000  
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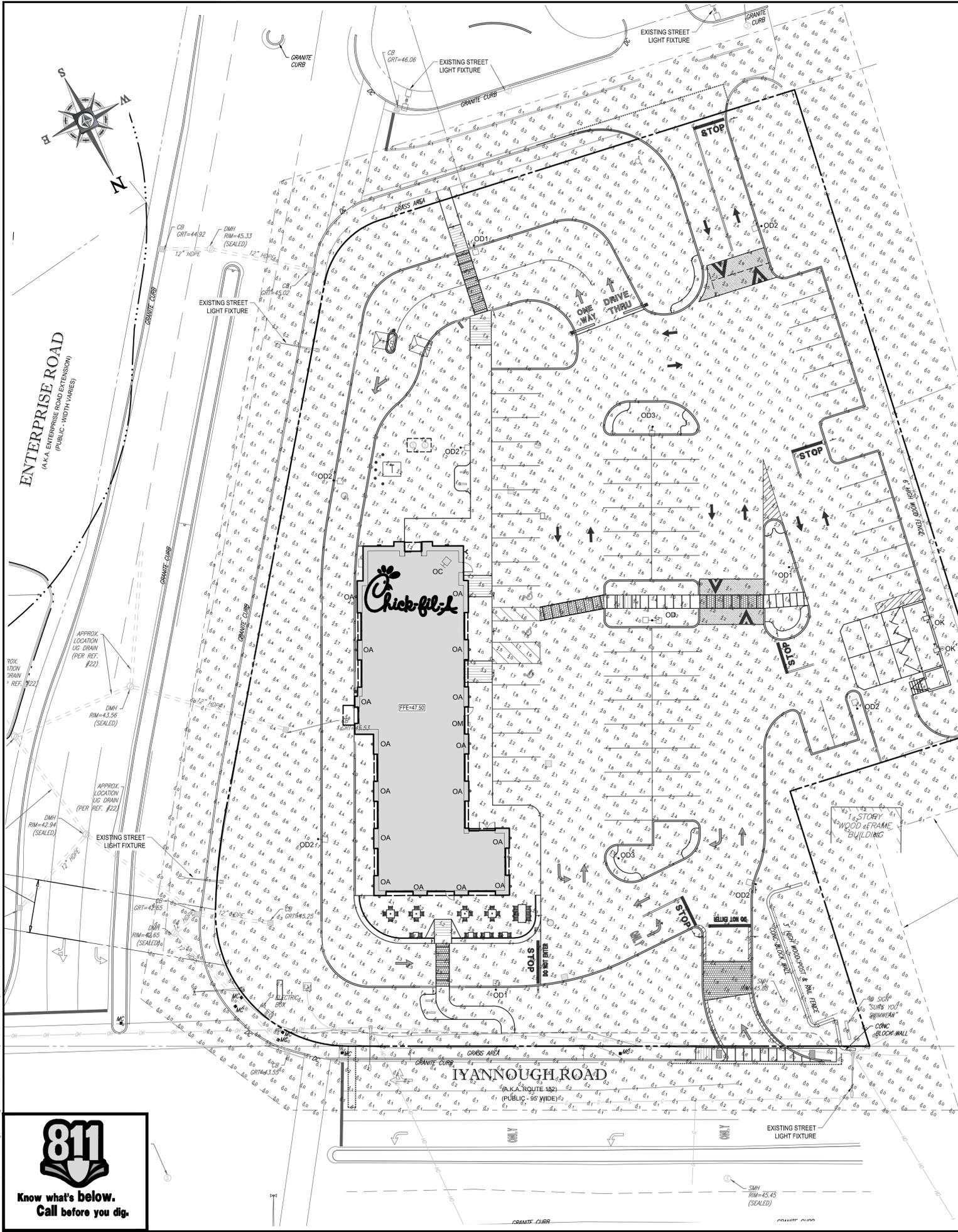
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STORE #03545  
 S08H-MODIFIED-NL  
 104 ENTERPRISE ROAD  
 VILLAGE OF HANNIS  
 BARNSTABLE COUNTY  
 MASSACHUSETTS  
 MAP #294, LOT #18,19,23

SHEET TITLE  
**CONSTRUCTION DETAIL SHEET**  
 DWG EDITION 02.4  
 Preliminary  
 80% Submittal  
 For Construction

Job No. : W141096  
 Store : 03545  
 Date : 08/27/15  
 Drawn By : CFD/JNF  
 Checked By : DML/JGS

Sheet  
**C-5.0**



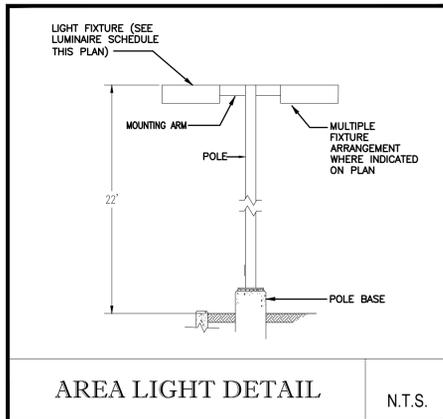
### POLE TOP LIGHTING FIXTURE (LUMINAIRE) SCHEDULE

MARK	MANUFACTURER	CATALOG NUMBER	NO. LAMPS/TYPE	WATTS	VOLTS	MOUNTING	REMARKS
OA	ECLIPSE	TY-20-WM-LED-3K-120-BK-ARM-WET-07	LED FURNISHED WITH FIXTURE	31	120	WALL	EXTERIOR WALL SCONCE - SEE ELEVATIONS FOR MOUNTING HEIGHT
OC	LITHONIA	TFR-400M-TA-TB-SCWA-IS-LPI	1-M400/PS/U	458	120	PIPE	FLOODLIGHT MTD ON ROOF ON 2" PIPE SUPPORT (BY OTHERS) AND AIMED AT NIGHTIME AT FLAG
OD	LITHONIA	(2)DSXO LED-40C-1000-40K-T4M-MVOLT-SPA-DOBXD SSS-20-SC-DM19AS-DOB ANCHOR BOLT SET: ABSSS-5	LED FURNISHED WITH FIXTURE	276	208	POLE	TYPE 4 MEDIUM DISTRIBUTION, FORWARD OPTICS
OD1	LITHONIA	DSXO LED-40C-1000-40K-T2M-MVOLT-SPA-DOBXD SSS-20-SC-DM19AS-DOB ANCHOR BOLT SET: ABSSS-5	LED FURNISHED WITH FIXTURE	138	208	POLE	TYPE 2 MEDIUM DISTRIBUTION, FORWARD OPTICS
OD2	LITHONIA	DSXO LED-40C-1000-40K-T2M-MVOLT-SPA-DOBXD-HS SSS-20-SC-DM19AS-DOB ANCHOR BOLT SET: ABSSS-5	LED FURNISHED WITH FIXTURE	138	208	POLE	TYPE 2 MEDIUM DISTRIBUTION, FORWARD OPTICS
OD3	LITHONIA	DSXO LED-40C-1000-40K-T5M-MVOLT-SPA-DOBXD SSS-20-SC-DM19AS-DOB ANCHOR BOLT SET: ABSSS-5	LED FURNISHED WITH FIXTURE	138	208	POLE	TYPE 5 MEDIUM DISTRIBUTION, FORWARD OPTICS
OK	LITHONIA	TWA-50M-120-LPI	1-MPS0/U/MED	68	120	WALL	CENTERLINE OF FIXTURE AT 8'-0" ABV 0'-0" (FINISH FLOOR LINE)

FIXTURE	HEIGHT (UNLESS NOTED OTHERWISE)	LIGHTING LOSS FACTOR
OA	7'9"	0.9
OC	22'6"	0.9
OK	8'	0.9
OD	22'	0.9
OD1	22'	0.9
OD2	22'	0.9
OD3	22'	0.9

### CCC TECHNICAL BULLETIN 95-001 REQUIREMENTS

SECTION	DESCRIPTION	PROJECT COMPLIANT
DEFINITIONS: EQUIPMENT FACTOR	LIGHT LOSS FACTOR (EF=0.90-0.90)	YES
2.3	LIGHT FIXTURES TO BE FULLY SHIELDED	YES
2.5	DEVELOPMENTS THAT DO NOT ABUT RESIDENTIAL AREAS SHOULD NOT UTILIZE LIGHT POLES EXCEEDING 25'-0" IN HEIGHT (BASE-POLE+HEAD).	YES
2.6	ALL EXTERIOR LIGHTS SHOULD HAVE A MAXIMUM INITIAL HORIZONTAL FOOT-CANDLE LEVEL OF 8.0 FOOT-CANDELES, AS MEASURED DIRECTLY BELOW THE LUMINAIRE(S) AT GRADE.	YES



OA - BUILDING WALL MOUNTED FIXTURE



OC - BUILDING MOUNTED FLOOD LIGHT FIXTURE



OD, OD1, OD2, OD3 - POLE MOUNTED FIXTURE



OK - TRASH ENCLOSURE WALL MOUNTED FIXTURE

NOTE: THIS DETAIL IS FOR BID AND BUDGETARY PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.

- SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
- THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.

- ### LIGHTING NOTES:
- 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.
  - THE LIGHT LOSS FACTORS USED IN THESE LIGHTING CALCULATIONS ARE 0.90 FOR ALL LED LUMINAIRES, 0.80 FOR ALL HIGH PRESSURE SODIUM LUMINAIRES OR 0.72 FOR ALL METAL HALIDE LUMINAIRES UNLESS OTHERWISE SPECIFIED. THESE FACTORS ARE INDICATIVE OF TYPICAL LIGHTING INDUSTRY MODELING STANDARDS.
  - 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 FOOT-CANDELES.
  - 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 REPLACING (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.
  - 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.
  - 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. LIGHT POLE BASES ARE THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. 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.
  - CONTRACTOR MUST BRING TO DESIGNER'S ATTENTION, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES.
  - 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.
  - 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, LAWS, ORDINANCES, REGULATIONS AND THE LIKE.
  - THE CONTRACTOR MUST VERIFY THAT INSTALLATION OF LIGHTING FIXTURES COMPLIES WITH THE REQUIREMENTS FOR SEPARATION FROM OVERHEAD ELECTRICAL WIRES PER STATE REGULATIONS.
  - WHEN A BANK ATM IS INCLUDED IN THE PLAN, THE LIGHTING DESIGN REPRESENTS BOHLER'S UNDERSTANDING AND INTERPRETATION OF THE REGULATORY LIGHTING LEVELS INTENDED BY PUBLISHED STANDARDS.
  - 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.

EXISTING LIGHT FIXTURES OUTSIDE OF PROJECT SITE AREA HAVE NOT BEEN INCLUDED IN THIS LIGHTING ANALYSIS

THIS PROJECT COMPLIES WITH THE CCC TECHNICAL BULLETIN FOR LIGHTING STANDARDS.

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



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MAP #294, LOT #18,19,23

SHEET TITLE  
PHOTOMETRIC PLAN  
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