

STANDARD ABBREVIATIONS	
AC	ACRES
ADA	AMERICANS WITH DISABILITY ACT
ARCH	ARCHITECTURAL
BC	BOTTOM OF CURB
BF	BASEMENT FLOOR
BK	BLOCK
BL	BASELINE
BLD	BUILDING
BOL	BOLLARD
BM	BENCH MARK
BRL	BUILDING RESTRICTION LINE
CF	CUBIC FEET
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CONN	CONNECTION
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CY	CUBIC YARDS
DEC	DECORATIVE
DEP	DEPRESSED
DIP	DUCTILE IRON PIPE
DOM	DOMESTIC
ELEC	ELECTRIC
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EW	END OF WALL
EX	EXISTING
FES	FLARED END SECTION
FF	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FG	FINISHED GRADE
G	GRADE
GF	GARAGE FLOOR
GH	GRADE HIGH SIDE OF WALL
GL	GRADE LOW SIDE OF WALL
GRT	GRATE
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
HOR	HORIZONTAL
HW	HEADWALL
INT	INTERSECTION
INV	INVERT
LF	LINEAR FOOT
LOC	LIMITS OF CLEARING
LOD	LIMITS OF DISTURBANCE
LOS	LINE OF SIGHT
LP	LOW POINT
LS	LANDSCAPE
MAX	MAXIMUM
ME	MATCH EXISTING
MIN	MINIMUM
MH	MANHOLE
MJ	MECHANICAL JOINT
OC	ON CENTER
PC	POINT OF CURVATURE
PCCR	POINT OF COMPOUND CURVATURE, CURB RETURN
PI	POINT OF INTERSECTION
POG	POINT OF GRADE
POI	POINT OF INTEREST
PROP	PROPOSED
PT	POINT OF TANGENCY
PTCR	POINT OF TANGENCY, CURB RETURN
PVC	POLYVINYL CHLORIDE PIPE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCRP	REINFORCED CONCRETE WITH RUBBER GASKET
RET-WALL	RETAINING WALL
R/W	RIGHT OF WAY
S	SLOPE
SAN	SANITARY SEWER
SF	SQUARE FEET
STA	STATION
STM	STORM
TBR	TO BE REMOVED
TBRL	TO BE RELOCATED
TC	TOP OF CURB
TEL	TELEPHONE
TP	TREE PROTECTION
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UP	UTILITY POLE
WL	WATER LINE
WM	WATER METER
±	PLUS OR MINUS
°	DEGREE
Ø	DIAMETER
#	NUMBER

GENERAL SITE NOTES:

- ALL CONSTRUCTION MATERIALS AND TECHNIQUES OF INSTALLATION SHALL MEET PERFORMANCE VALUES OF THE MATERIALS SPECIFIED AND COMPLY WITH ALL AUTHORITY HAVING JURISDICTION REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THIS PROJECT IS CONSTRUCTED IN ACCORDANCE WITH THESE DOCUMENTS AND IN COMPLIANCE WITH CODES INDICATED HEREIN. THE QUALITY OF WORKMANSHIP AND INSTALLATION OF MATERIALS SPECIFIED BY THE ARCHITECT/ENGINEER ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT/ENGINEER WILL NOT BE HELD RESPONSIBLE FOR ANY SUBSTANDARD OR INSUFFICIENT WORKMANSHIP, MATERIALS, OR SERVICES PROVIDED IN THE EXECUTION OF ANY PHASE OF CONSTRUCTION OF THIS PROJECT.
- ALL MATERIALS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL MANUFACTURER'S WARRANTIES WILL BE HONORED.
- ALL CONDITIONS SHOWN TO BE "EXISTING" SHALL BE VERIFIED IN THE FIELD BY THE GENERAL CONTRACTOR PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE NOTED AND SUBMITTED TO THE OWNER AND THE ARCHITECT/ENGINEER FOR REVIEW. CHANGES TO THE ORIGINAL DESIGN OF THE PROJECT DUE TO EXISTING SITE CONDITIONS MUST BE APPROVED BY BOTH THE OWNER AND THE ARCHITECT/ENGINEER PRIOR TO MAKING ANY CHANGES.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF EXISTING FIELD CONDITIONS AND OF ALL DRAWINGS AND SPECIFICATIONS RELATED TO THEIR FIELD. THE FAILURE TO ACQUAINT THEMSELVES WITH THIS PROJECT AND ONE'S FIELD OF SERVICE SHALL NOT RELIEVE THEM OF ANY RESPONSIBILITY FOR PERFORMING THEIR WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO THE GENERAL CONTRACTOR'S FAILURE TO CONVEY THE NECESSARY KNOWLEDGE TO FAMILIARIZE WORKERS AND SUBCONTRACTORS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE SAFETY OF ALL PERSONS ON THE JOB SITE AT ALL TIMES INCLUDING (BUT NOT LIMITED TO) SUBCONTRACTORS, FACILITY EMPLOYEES, VENDORS, DESIGN STAFF PROFESSIONALS AND INSPECTION PERSONNEL.
- THE GENERAL CONTRACTOR SHALL PROVIDE DUMPSTERS, PORTABLE TOILETS AND TEMPORARY POWER FOR UNRESTRICTED PROJECT RELATED USE BY OTHERS FOR THE DURATION OF THE PROJECT.
- THE GENERAL CONTRACTOR SHALL COORDINATE PROJECT PHASING AND STORAGE OF MATERIALS WITH THE OWNER AND EROSION AND SEDIMENT CONTROL AUTHORITY.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE RECEIVING, UNLOADING, STORING AND PROTECTION OF MATERIALS AND EQUIPMENT SUPPLIED BY THE OWNER UNTIL IT HAS BEEN INSTALLED AND ACCEPTED BY THE OWNER.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE AREA CLEAN AND FREE OF DEBRIS AT ALL TIMES DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL POWER WASH THE ENTIRE CONSTRUCTION AREA PRIOR TO TURNOVER TO THE OWNER.
- THE GENERAL CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES, INCLUDING IRRIGATION, SPECIFIC TO THIS PROJECT PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION. SHOULD ANY UTILITY REQUIRE RELOCATION, CONTRACTOR SHALL COORDINATE WITH THE OWNER AND THE ARCHITECT/ENGINEER.
- SAWCUT AND REMOVE PORTIONS OF EXISTING PAVING ONLY AS REQUIRED TO INSTALL NEW UTILITIES OR TO CONSTRUCT PROPOSED FACILITIES PER THIS PLAN. REPLACE PORTIONS REMOVED TO MATCH EXISTING FLUSH AND SMOOTH.
- IF REQUESTED BY THE OWNER OR AUTHORITY HAVING JURISDICTION, CONTRACTOR TO PROVIDE TEMPORARY CONSTRUCTION FENCING, PER AUTHORITY HAVING JURISDICTION REQUIREMENTS OR A MINIMUM 6 FOOT HIGH, AROUND ENTIRE AREA OF CONSTRUCTION OR PER THE CLIENT'S STANDARDS. FIELD VERIFY EXACT LOCATION AND SPECIFICATIONS OF FENCE WITH THE OWNER PRIOR TO START OF CONSTRUCTION. REMOVE FENCING AT COMPLETION OF PROJECT AND PATCH PAVING AS REQUIRED AT FENCE POST HOLES.
- ALL DIMENSIONS ARE TO GROUND LEVEL IMPROVEMENTS (FACE OF CURB, CONCRETE SLAB, ETC UNLESS NOTED OTHERWISE).
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
- CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING IN GRADE AND ALIGNMENT.
- CONSTRUCTION SHALL COMPLY WITH ALL AUTHORITY HAVING JURISDICTION CODES AND BE CONSTRUCTED TO SAME.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEM TO REMAIN DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY OWNER PRIOR TO CONSTRUCTION START. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE INCURRED TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF BUILDING APPURTENANCES, STAIRS, RAMPS, SLOPE PAVING, SIDEWALKS, PRECISE BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- ALL DISTURBED AREAS ARE TO RECEIVE A MINIMUM OF FOUR INCHES OF TOPSOIL, UNLESS OTHERWISE NOTED IN THESE PLANS, SEED OR SOD, MULCH AND WATER UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE MAINTAINED, ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION REQUIREMENTS AND PROJECT SITE WORK SPECIFICATIONS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
- THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS IN THE CONTRACT DOCUMENTS AND THE OWNER/ DEVELOPER SITE WORK SPECIFICATIONS.
- ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER OF RECORD BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM THE DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL.
- IN THE EVENT THE CONSTRUCTION IS ABANDONED PRIOR TO THE COMPLETION OF THE PROJECT, ALL CONSTRUCTION AND STOCKPILED VEGETATIVE DEBRIS AND FILL SHALL BE REMOVED FROM THE SITE AND THE SITE SHALL BE STABILIZED PER THE PERMIT FOR STORM WATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES (NPDES).
- THESE PLANS ARE INTENDED TO AND SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT.
- CONTRACTOR IS RESPONSIBLE FOR PERMITTING, INSTALLATION AND MAINTENANCE OF ALL MAINTENANCE OF TRAFFIC OPERATIONS DURING CONSTRUCTION. MAINTENANCE OF TRAFFIC SHALL CONFORM TO AUTHORITY HAVING JURISDICTION STANDARDS.
- ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN THE AUTHORITY HAVING JURISDICTION DEVELOPMENT CODE, ZONING, AND/OR RELATED ORDINANCES, AND MINIMUM TESTING FREQUENCY REQUIREMENTS.
- PREVIOUS SITE PLAN REMAINS IN EFFECT EXCEPT AS MODIFIED BY THE PROPOSED

REVISIONS.

- SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES ON OR NEAR THE CONSTRUCTION SITE.

SOIL EROSION AND SEDIMENT CONTROL NOTES:

- ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
- SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL AUTHORITY HAVING JURISDICTION STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
- APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
- THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
- ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN 14 DAYS, UNLESS OTHERWISE NOTED IN THE PLANS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH ALL AUTHORITY HAVING JURISDICTION STANDARDS. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND ANCHORED.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS AND AFTER EVERY STORM EVENT.
- A CRUSHED STONE TIRE CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS EXISTS. THE STABILIZED PAD WILL BE INSTALLED ACCORDING TO THE STANDARD FOR STABILIZED CONSTRUCTION ACCESS.
- ALL CATCH BASIN INLETS WILL BE PROTECTED ACCORDING TO THE CERTIFIED PLAN.
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- OFFSITE SEDIMENT DISTURBANCE MAY REQUIRE ADDITIONAL CONTROL MEASURES TO BE DETERMINED BY THE EROSION CONTROL INSPECTOR.
- A COPY OF THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN MUST BE MAINTAINED ON THE PROJECT SITE DURING CONSTRUCTION.
- THE AUTHORITY HAVING JURISDICTION SHALL BE NOTIFIED PER AUTHORITY HAVING JURISDICTION REQUIREMENTS PRIOR TO ANY LAND DISTURBANCE.
- ANY CONVEYANCE OF THIS PROJECT PRIOR TO ITS COMPLETION WILL TRANSFER FULL RESPONSIBILITY FOR COMPLIANCE WITH THE CERTIFIED PLAN TO ANY SUBSEQUENT OWNERS.
- MAXIMUM SLOPE SIDES OF ALL EXPOSED SURFACES SHALL NOT BE CONSTRUCTED STEEPER THAN 3:1 UNLESS OTHERWISE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ADJOINING PROPERTIES SHALL BE PROTECTED FROM EXCAVATION AND FILLING OPERATIONS ON THE PROPOSED SITE.
- USE STAGED CONSTRUCTION METHODS TO MINIMIZE EXPOSED SURFACES, WHERE APPLICABLE.
- ALL VEGETATIVE MATERIAL SHALL BE SELECTED IN ACCORDANCE WITH AMERICAN STANDARDS FOR NURSERY STOCK OF THE AMERICAN ASSOCIATION OF THE NURSERYMAN.
- NATURAL VEGETATION AND SPECIES SHALL BE RETAINED WHERE SPECIFIED ON THE LANDSCAPING PLAN.
- THE SOIL EROSION INSPECTOR MAY REQUIRE ADDITIONAL SOIL EROSION MEASURES TO BE INSTALLED, AS DIRECTED BY THE INSPECTOR.

DEMOLITION NOTES:

- THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND CODES AND OBTAIN ALL REQUIRED PERMITS FOR ANY CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL CONTACT 811 DIG SAFELY BEFORE PERFORMING ANY EXCAVATION WORK.
- THE CONTRACTOR SHALL INSTALL ALL CONSTRUCTION FENCING AND EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY.
- ALL STRUCTURES, UTILITIES, SITE IMPROVEMENTS AND TREES DESIGNATED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER TO REMAIN SHALL BE PROTECTED FROM DAMAGE BY ALL CONSTRUCTION OPERATIONS. THIS SHALL BE ACCOMPLISHED BY ERECTING BARRIERS, GUARDS AND ENCLOSURES AS SHOWN ON THE DRAWINGS OR OTHER APPROVED MEANS. PROTECTION SHALL BE MAINTAINED UNTIL ALL WORK IN THE VICINITY OF THE WORK BEING PROTECTED HAS BEEN COMPLETED.
- THE CONTRACTOR SHALL COMPLY WITH ALL DEMOLITION AND NEW CONSTRUCTION INSPECTIONS AS REQUIRED BY FEDERAL, STATE AND AUTHORITY HAVING JURISDICTION LAWS, REGULATIONS AND BUILDING CODES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSAL (IN A LOCATION APPROVED BY ALL AUTHORITIES HAVING JURISDICTION) ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY, UNLESS OTHERWISE NOTED.
- ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE CONTRACT DOCUMENTS.
- CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH, VEGETATION FROM CLEARING AND GRUBBING, AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING FOR ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
- ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED

- AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY AND REMOVED TO THE PROPERTY LINE. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
 - CONTRACTOR TO REPLACE ALL DEAD AND/OR DAMAGED SHRUBS IN KIND.

GENERAL UTILITY NOTES:

- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.
- ALL ELECTRIC, TELEPHONE AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.
- CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE AUTHORITY HAVING JURISDICTION AND CONTRACTOR HAS BEEN NOTIFIED BY SAID ENGINEER.
- PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, UNLESS OTHERWISE SPECIFIED IN PLANS. THE ENGINEER AND ITS OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SCHEDULE FOR INSTALLATION WITH THE UTILITY COMPANIES AND THE OWNER. ANY EXISTING UTILITIES DISRUPTED DURING PLACEMENT OF NEW UTILITIES SHALL BE REPAIRED AND OPERATING NORMALLY THE SAME DAY OF DISRUPTION. THE GENERAL CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING ITEMS THAT WILL BE DISRUPTED DURING THE PLACEMENT OF NEW UTILITIES AND PROVIDE THE OWNER A DETAILED PHASING SCHEDULE OUTLINING THE TIMELINE FOR INSTALLATION OF NEW UTILITIES INCLUDING THE PROPOSED TIMES THAT EXISTING ITEMS WILL BE DISRUPTED. THE NEW UTILITIES TRENCH WIDTH AND DEPTH SHALL MEET ALL LOCAL AND STATE REQUIREMENTS FOR THE DISPLACEMENT OF ALL UTILITIES. IF DIRECTIONAL BORING IS USED FOR INSTALLATION, THE ABOVE LISTED ITEMS ARE STILL REQUIRED TO BE SUBMITTED TO THE OWNER.
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES' INSPECTORS PER AUTHORITY HAVING JURISDICTION REQUIREMENTS BEFORE CONNECTING TO ANY EXISTING LINE AND FOLLOW ALL REQUIREMENTS AND SPECIFICATIONS.
- UNDERGROUND UTILITY LINES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
- ALL CONCRETE FOR ENCASEMENTS SHALL MEET THE AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR ENCASEMENT.
- DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. CONTRACTOR TO VERIFY ALL UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR SHALL CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES, GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE IN ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED VEGETATION IN KIND, UNLESS SHOWN OTHERWISE.
- DEFLECTION OF PIPE JOINTS AND CURVATURE OF PIPE SHALL NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS. SECURELY CLOSE ALL OPEN ENDS OF PIPE AND FITTINGS WITH A WATERIGHTY PLUG WHEN WORK IS NOT IN PROGRESS. THE INTERIOR OF ALL PIPES SHALL BE CLEAN AND JOINT SURFACES WIPED CLEAN AND DRY AFTER THE PIPE HAS BEEN LOWERED INTO THE TRENCH. VALVES SHALL BE PLUMB AND LOCATED ACCORDING TO THE PLANS.
- ALL UTILITY AND STORM DRAIN TRENCHES LOCATED UNDER AREAS TO RECEIVE PAVING SHALL BE COMPLETELY BACKFILLED AND COMPACTED IN ACCORDANCE WITH SPECIFICATIONS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
- SHOP DRAWINGS FOR ALL MATERIALS AND APPURTENANCES SHALL BE SUBMITTED TO AND APPROVED BY THE AUTHORITY HAVING JURISDICTION UTILITY DEPARTMENT. CONTRACTOR TO COPY THE ENGINEER OF RECORD WITH APPROVED DRAWINGS AS REQUIRED. NO WORK IS TO BEGIN UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED, APPROVED AND RETURNED TO THE CONTRACTOR.
- PER AUTHORITY HAVING JURISDICTION TIMING REQUIREMENTS, PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE AUTHORITY HAVING JURISDICTION AND THE UTILITY COMPANY AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE AND OTHER INFORMATION AS REQUIRED. THE AUTHORITY HAVING JURISDICTION ENGINEERING INSPECTION OFFICE SHOULD ALSO BE CONTACTED PER TIMING REQUIREMENTS PRIOR TO CONSTRUCTION TO ENSURE AVAILABILITY OF INSPECTION PERSONNEL. ANY WORK PERFORMED PRIOR TO NOTIFYING THE AUTHORITY HAVING JURISDICTION ENGINEERING INSPECTION OFFICE OR WITHOUT A DEPARTMENT INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE SOLE EXPENSE OF THE CONTRACTOR.
- SANITARY SEWER, FORCE MAINS, SEWER LATERALS, AND STORM SEWERS SHOULD CROSS UNDER WATER MAINS AND/OR WATER SERVICES WHENEVER POSSIBLE. SANITARY SEWERS, FORCE MAINS, SEWER LATERALS, AND STORM SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE BOTTOM OF THE UPPER PIPE AND THE TOP OF THE LOWER PIPE, UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- A MINIMUM HORIZONTAL DISTANCE OF 10 FEET SHOULD BE MAINTAINED BETWEEN WATER LINES AND ANY TYPE OF SEWER LINES OR OTHER SOURCES OF CONTAMINATION, UNLESS OTHERWISE NOTED IN THE PLANS. WATER LINES AND SEWERS SHALL NOT BE LAID IN THE SAME TRENCH EXCEPT ON THE WRITTEN APPROVAL OF THE AUTHORITY HAVING JURISDICTION. WATER MAINS NECESSARILY IN CLOSE PROXIMITY TO SEWERS MUST BE PLACED SO THAT THE BOTTOM OF THE WATER LINE WILL BE AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT, UNLESS OTHERWISE NOTED IN THE PLANS. IF THIS DISTANCE MUST UNAVOIDABLY BE REDUCED, THE WATER LINE OR THE SEWER LINE MUST BE ENCASED IN WATERTIGHT PIPE WITH SEALED WATERTIGHT ENDS EXTENDING AT LEAST 10 FEET EITHER SIDE OF THE CROSSING, UNLESS OTHERWISE NOTED IN THE PLANS. ANY JOINT IN THE ENCASEMENT PIPE IS TO BE MECHANICALLY RESTRAINED. THE ENCASEMENT PIPE MAY BE VENTED TO THE SURFACE BY CARRYING WATER OR SEWER UNDER PRESSURE. WHERE A WATER LINE MUST UNAVOIDABLY PASS BENEATH THE SEWER LINE, AT LEAST 18 INCHES OF SEPARATION MUST BE MAINTAINED BETWEEN THE OUTSIDE OF THE TWO PIPES IN ADDITION TO THE PRECEDING ENCASEMENT REQUIREMENT, UNLESS OTHERWISE NOTED IN THE PLANS.

- EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE AUTHORITY HAVING JURISDICTION.
- A MINIMUM HORIZONTAL DISTANCE OF 3 FEET, UNLESS OTHERWISE NOTED IN THE PLANS, SHALL BE MAINTAINED BETWEEN WATER LINES AND OTHER UNDERGROUND OF A NONSANITARY NATURE (GAS, ELECTRIC, ETC.) EXCEPTIONS TO THIS MUST BE APPROVED IN WRITING BY THE AUTHORITY HAVING JURISDICTION.
 - ALL DIP SHALL BE CLASS 50 OR HIGHER, DUCTILE IRON FITTINGS SHALL BE CLASS 350, UNLESS OTHERWISE NOTED IN THE PLANS. ADEQUATE PROTECTIVE MEASURES AGAINST CORROSION SHALL BE USED.
 - TREES SHALL BE PLACED SO AS TO AVOID BURIED UTILITIES.
 - ALL UTILITY MAIN LENGTHS SHOWN ARE APPROXIMATE. ALL MANHOLE TOP ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL SET MANHOLE COVER LEVEL WITH FINISH PAVEMENT GRADES.
 - PRESSURE PIPE TESTING SPECIFICATIONS SHALL REFERENCE THE AUTHORITY HAVING JURISDICTION AND/OR FIRE DEPARTMENT.
 - CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES. THIS AND THE FINAL CONNECTIONS OF THE SERVICE SHALL BE COMPLETED 30 DAYS PRIOR TO POSSESSION.
 - REFER TO BUILDING PLANS FOR SITE ELECTRICAL PLAN.
 - ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED AND INSTALLED IN ACCORDANCE WITH THE APPROPRIATE APPROVING AUTHORITIES LATEST REQUIREMENTS AND SPECIFICATIONS OR AUTHORITY HAVING JURISDICTION SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.

GENERAL PAVING AND GRADING NOTES:

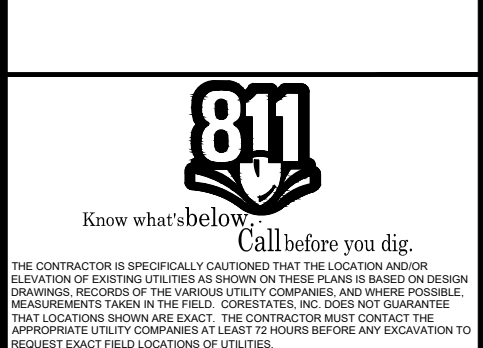
- ALL PAVING AND GRADING CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES, UNLESS OTHERWISE NOTED IN THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION AND SHALL MEET ALL AUTHORITY HAVING JURISDICTION REQUIREMENTS/SPECIFICATIONS AT A MINIMUM.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE EPA OR APPLICABLE STATE GENERAL NPDES PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY A LICENSED PROFESSIONAL SURVEYOR AND MAPPER. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL, UNLESS OTHERWISE NOTED IN THE PLANS. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH AUTHORITY HAVING JURISDICTION SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE AUTHORITY HAVING JURISDICTION CODES AND BE CONSTRUCTED TO SAME.
- ALL PAVING, CONSTRUCTION MATERIALS, AND WORKMANSHIP WITHIN RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION SPECIFICATIONS AND STANDARDS (LATEST EDITION) RESPECTIVELY.
- ALL CONCRETE USED ON THE SITE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS, UNLESS OTHERWISE NOTED IN THE PLANS. ALL CONCRETE SIDEWALKS SHALL HAVE CONTROL JOINTS CUT ON 5-FOOT CENTERS AND EXPANSION JOINTS PLACED ON 60-FOOT CENTERS, CHANGES IN DIRECTION, AND ABUTTING SEPARATE POURS. CONSTRUCTION JOINT SPACING SHALL MATCH WIDTH OF SIDEWALK AND EXPANSION JOINTS ARE REQUIRED AT A MAXIMUM OF 25 FEET, UNLESS OTHERWISE NOTED IN THE PLANS. THIS WOULD MEAN 24 FEET FOR A 6 INCH CURB. PAVEMENT JOINTS SHALL BE SPACED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND/OR DETAILS.
- THE CONTRACTOR SHALL ENSURE THAT ALL PLANTING AREAS (INTERIOR ISLANDS, FOUNDATION PLANTING AREAS, ETC.) ARE NOT COMPACTED AND DO NOT CONTAIN LIMEROCK OR OTHER MATERIAL (CLAY, SUBGRADE MATERIAL, MARL, ETC.) WHICH MAY ADVERSELY AFFECT DRAINAGE OF GREEN AREAS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND BACKFILL WITH CLEAN, FREE DRAINING TOPSOIL.
- CONTRACTOR IS SPECIFICALLY CAUTIONED, DEPENDING ON THE TIME OF YEAR AND PROJECT LOCATION, AS DEWATERING MAY BE REQUIRED.
- IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND ARCHITECT/ENGINEER PRIOR TO EXCAVATION.
- STRIP TOPSOIL AND ORGANIC MATTER AND PAVING MATERIAL FROM ALL AREAS TO BE IMPERVIOUS. TOPSOIL SHALL BE STOCKPILED ON SITE FOR REPLACEMENT ON SLOPES AND ALL OTHER GREEN AND LANDSCAPE AREAS.
- FIELD DENSITY TESTS SHALL BE TAKEN AT FREQUENCY AS REQUIRED IN THE SPECIFICATIONS OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION REGULATORY AGENCY, WHICHEVER IS MORE STRINGENT.
- CONTRACTOR SHALL ENSURE POSITIVE FLOW TO ALL INLETS WITHIN DRAINAGE BASINS TO PRECLUDE PONDED WATER.
- THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO CONTROL SEDIMENT, INCLUDING BUT NOT LIMITED TO THE INSTALLATION OF BARRIERS AT ALL LOCATIONS WHERE THE POSSIBILITY OF TRANSFERRING SUSPENDED SOLIDS INTO THE RECEIVING WATER BODY EXISTS DUE TO THE PROPOSED WORK. BARRIERS MUST BE MAINTAINED IN EFFECTIVE CONDITION AT ALL LOCATIONS UNTIL CONSTRUCTION IS COMPLETED.



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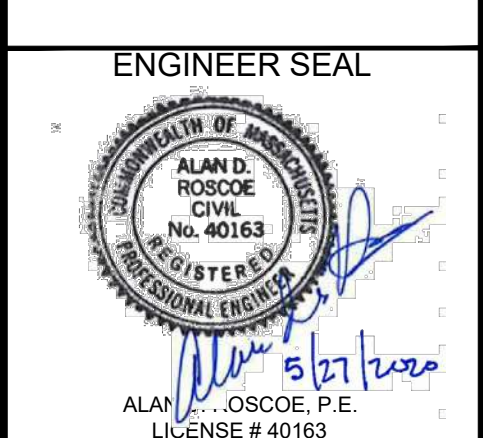
CLIENT
PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909



REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
 SITE PLAN
 APPROVAL

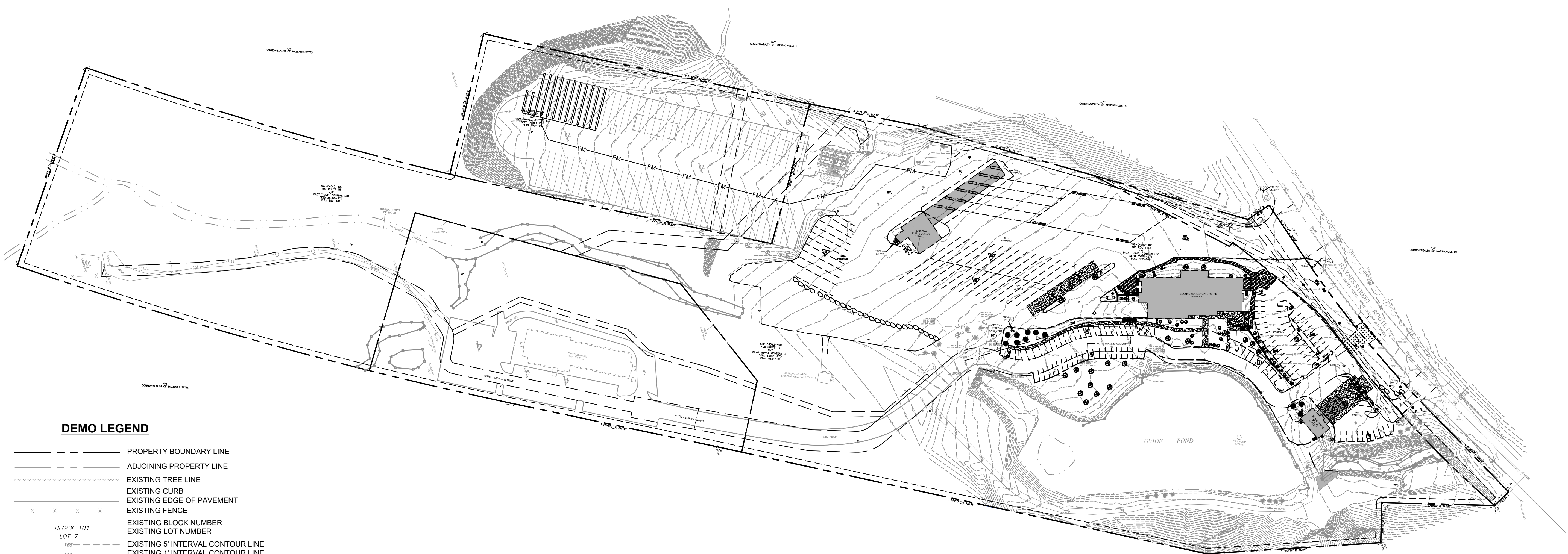
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 STURBRIDGE, MA 01566



SHEET TITLE
 GENERAL NOTES

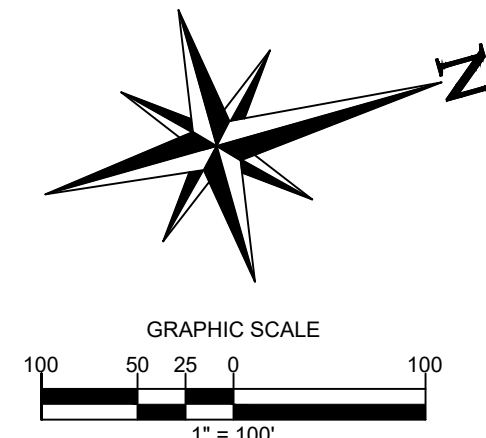
JOB #:	PIL-28950
DATE:	02/10/20
SCALE:	NTS
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C1.0



DEMO LEGEND

- PROPERTY BOUNDARY LINE
- - - ADJOINING PROPERTY LINE
- ~ ~ ~ EXISTING TREE LINE
- ===== EXISTING CURB
- ===== EXISTING EDGE OF PAVEMENT
- X - X - X - X - EXISTING FENCE
- BLOCK 101
LOT 7
185 - - - - - EXISTING 5' INTERVAL CONTOUR LINE
- 186 - - - - - EXISTING 1' INTERVAL CONTOUR LINE
- ⊙ EXISTING TREE
- ○ EXISTING GAS MAIN
- ○ EXISTING UTILITY POLE
- ⊞ EXISTING STORM STRUCTURES
- ⊞ EXISTING SANITARY STRUCTURES
- W - W EXISTING WATER MAIN
- ⊞ EXISTING FIRE HYDRANT
- ⊞ EXISTING WATER VALVE
- E - E EXISTING TELEPHONE
- T - T EXISTING UNDERGROUND ELECTRIC
- OH - OH EXISTING OVERHEAD WIRES
- S - S EXISTING SANITARY
- S - S EXISTING STORM
- ===== DEMO CURB
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CORE STATES GROUP

9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCOSCO@CORE-STATES.COM

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CLIENT



PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN
37909



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REVISIONS

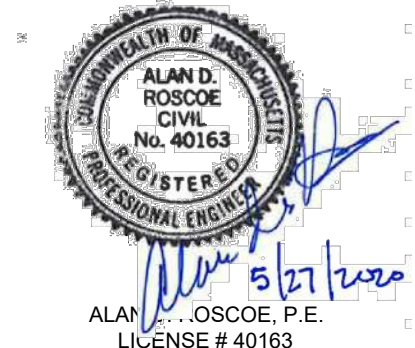
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DOCUMENT SITE PLAN APPROVAL

SITE LOCATION

400 HAYNES STREET
STURBRIDGE, MA
01566

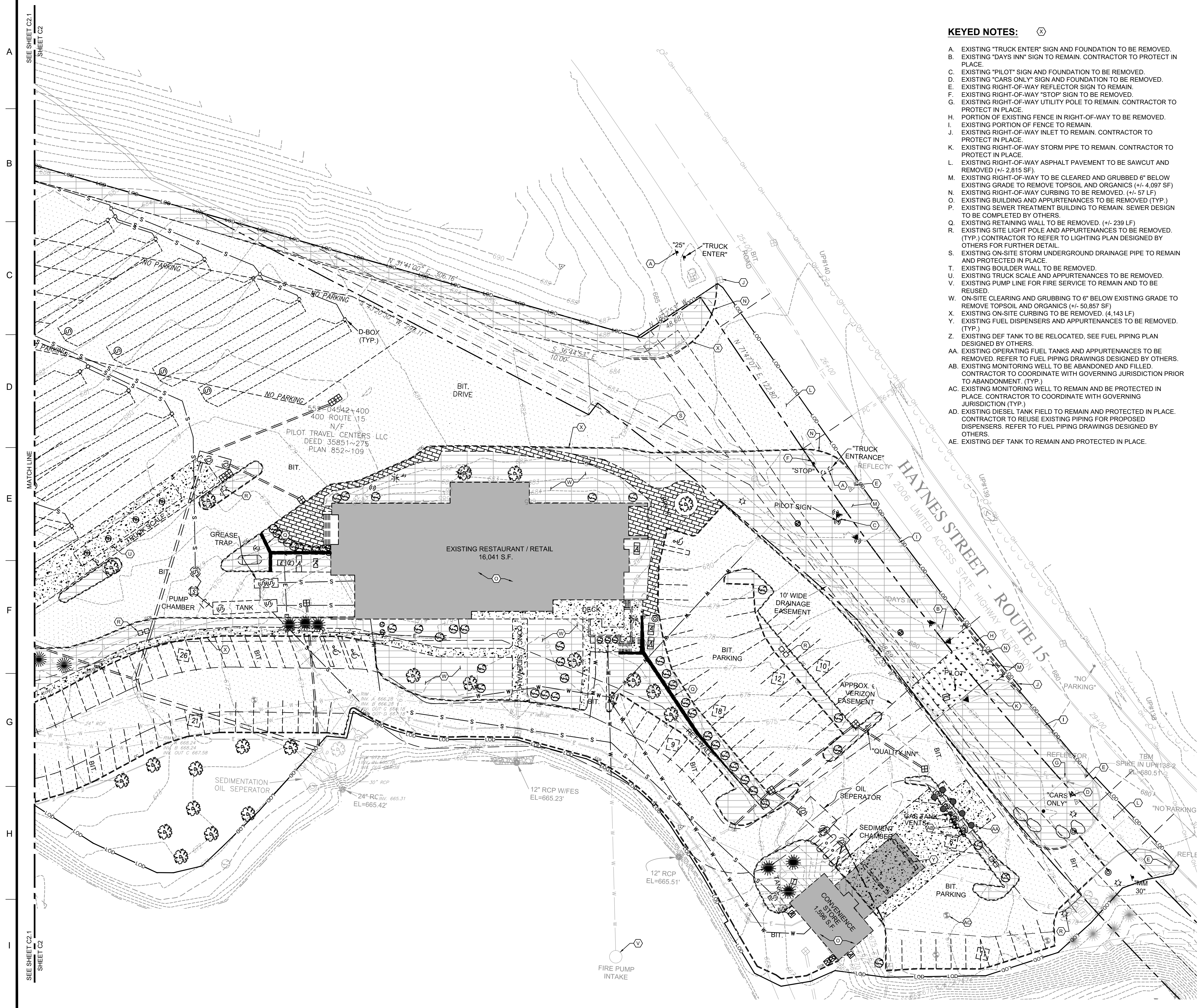
ENGINEER SEAL



SHEET TITLE OVERALL DEMOLITION PLAN

JOB #:	PIL 28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C2.0



KEYED NOTES: (X)

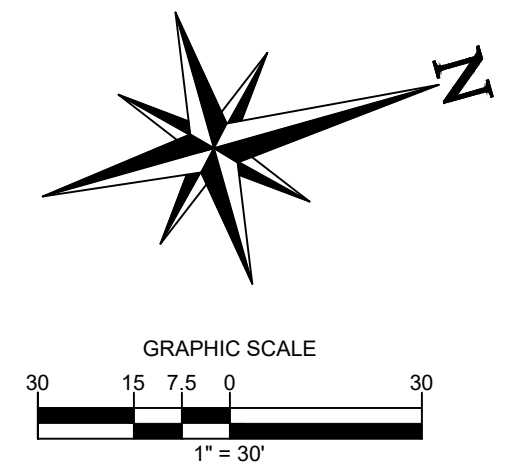
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- O. EXISTING BUILDING AND APPURTENANCES TO BE REMOVED (TYP.).
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ALERT TO CONTRACTOR:

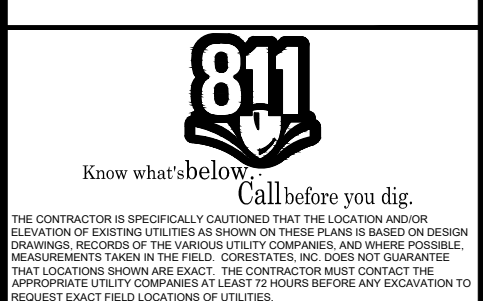
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CLIENT
Pilot TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909



REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
 SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

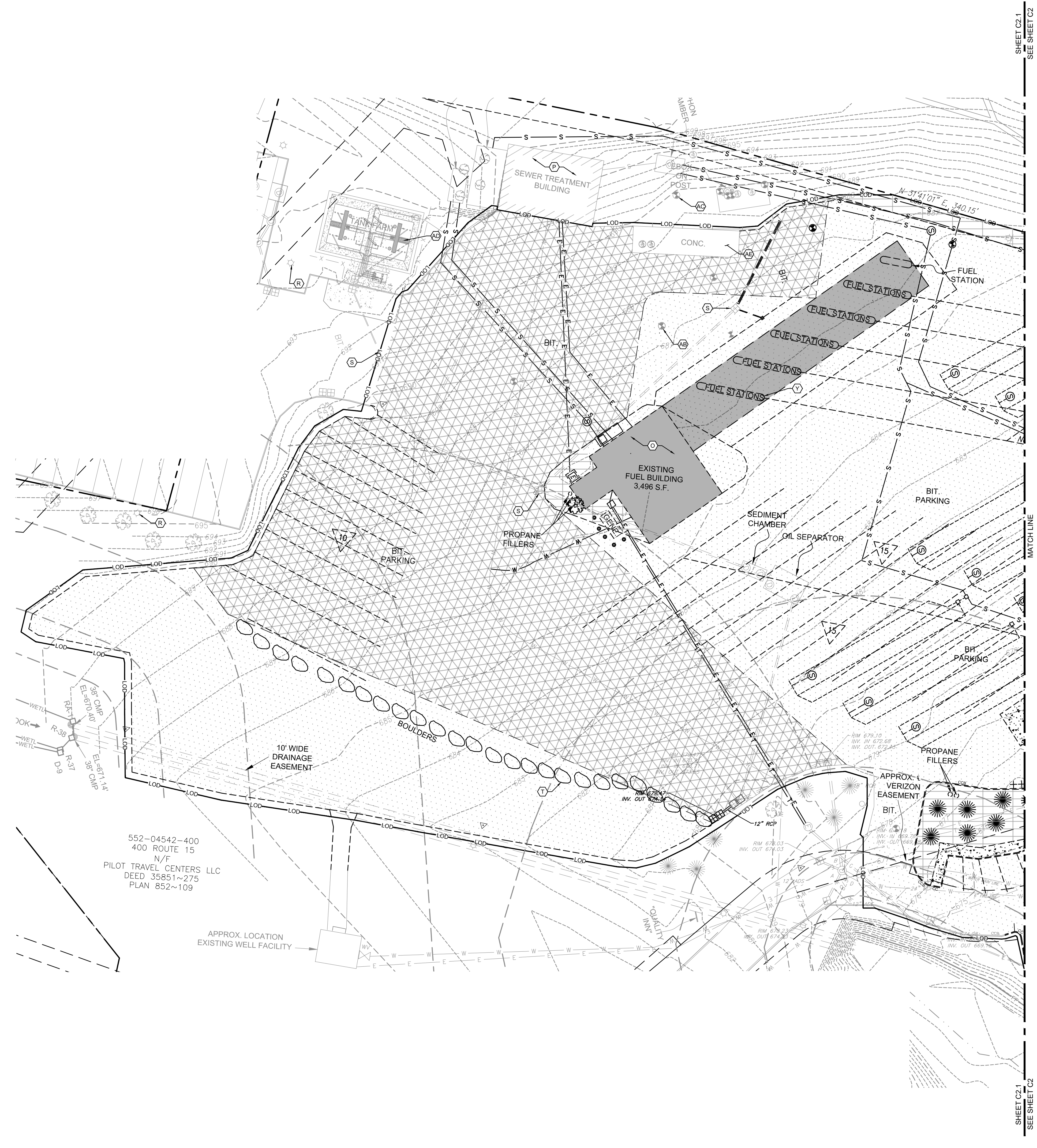
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 DEMOLITION PLAN

JOB #:	PIL 28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C2.1



SHEET C2.1
SEE SHEET C2

KEYED NOTES:

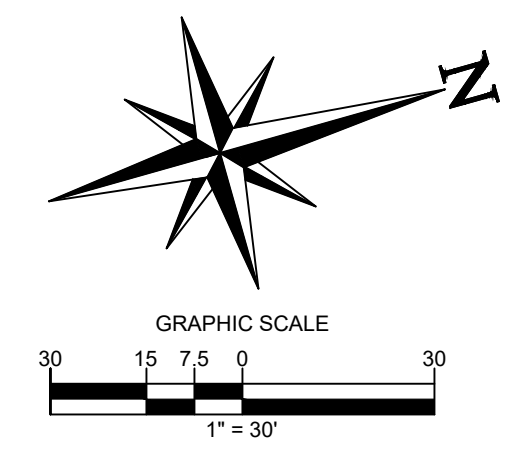
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CLIENT

Pilot TRAVEL CENTERS LLC.

5508 LONAS ROAD
 KNOXVILLE, TN
 37909

Know what's below. Call before you dig.
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS IS BASED ON RECORD DRAWINGS. RECORDS OF THE RECORDS (R) COMPANY ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION.

REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA
 01566

ENGINEER SEAL

 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
DEMOLITION PLAN

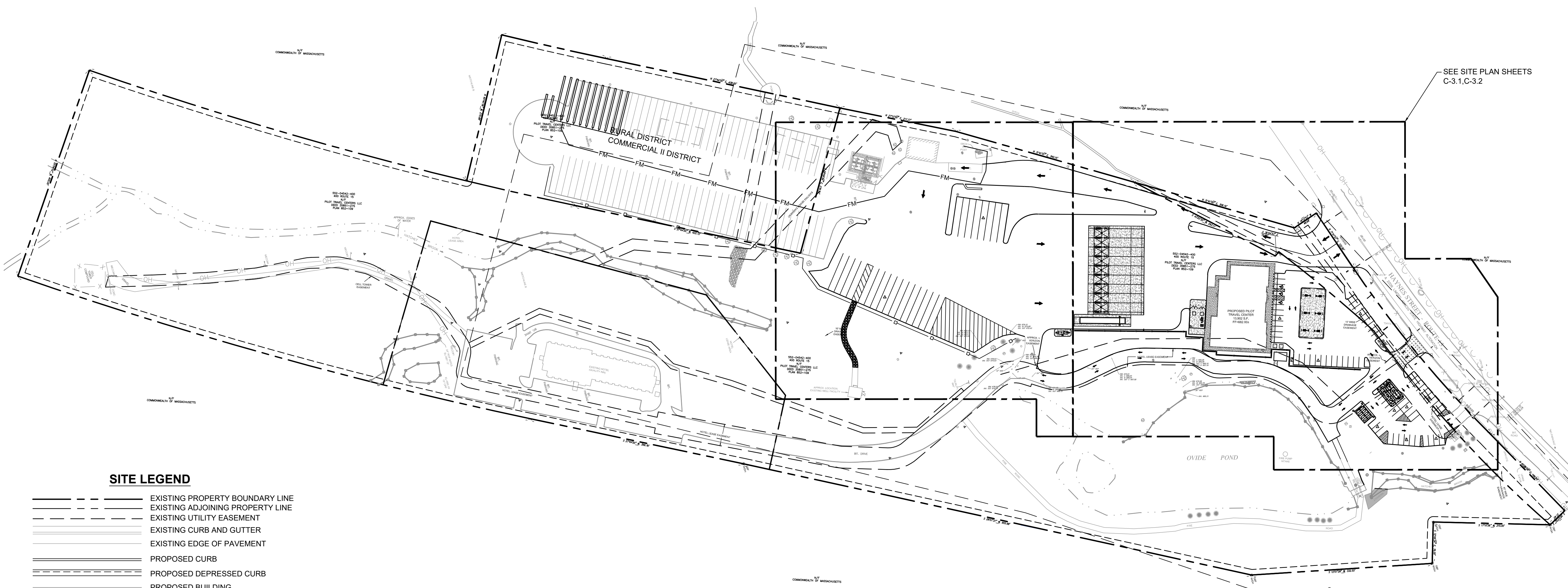
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C2.2

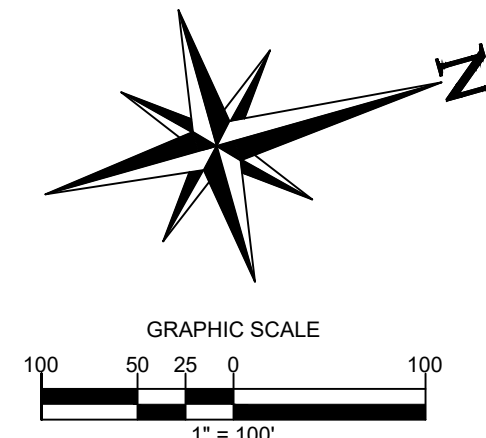
ZONING DATA COMMERCIAL II ZONING DISTRICT				
ITEM	REQUIRED	EXISTING	PROPOSED	COMMENT
LOT SIZE (AC.)	1	30.71	30.71	COMPLIANT
LOT FRONTAGE (FT.)	150	319.64	319.64	COMPLIANT
STREET SETBACK (FT.)	25 ⁽¹⁾	124.165	142.86	COMPLIANT
OTHER SETBACK (FT.)	10	113.69	81.03	COMPLIANT
MAXIMUM LOT COVERAGE (%)	30	4.86 ⁽²⁾	3.20 ⁽²⁾	COMPLIANT
MAXIMUM BUILDING HEIGHT (STORIES/FEET)	3/35	1.75/23	1/26	COMPLIANT
MAXIMUM IMPERVIOUS SURFACE (%)	70	76.78 ⁽²⁾	66.65 ⁽²⁾	COMPLIANT
MINIMUM HABITABLE FLOOR AREA (S.F.)	750	16,041	13,902	COMPLIANT

(1) STREET LINE SETBACKS APPLY TO ALL STREETS FORMING CORNER LOTS.
 (2) CALCULATION ACCOUNTS FOR LIMIT OF DISTURBANCE AREA.

IMPERVIOUS CALCULATION:
EXISTING CONDITIONS:
 IMPERVIOUS AREA = 333,722 SF
PROPOSED CONDITIONS:
 IMPERVIOUS AREA = 289,677 SF
 REDUCTION OF IMPERVIOUS AREA = 44,045 SF
 ** CALCULATION BASED ON LIMITS OF DISTURBANCE



- SITE LEGEND**
- EXISTING PROPERTY BOUNDARY LINE
 - EXISTING ADJOINING PROPERTY LINE
 - - - EXISTING UTILITY EASEMENT
 - ==== EXISTING CURB AND GUTTER
 - ==== EXISTING EDGE OF PAVEMENT
 - ==== PROPOSED CURB
 - ==== PROPOSED DEPRESSED CURB
 - ==== PROPOSED BUILDING
 - PROPOSED WATER STRUCTURES
 - PROPOSED STORM STRUCTURES
 - PROPOSED SANITARY STRUCTURES
 - PROPOSED SITE LIGHTING FIXTURES
 - ▨ EXISTING STORMWATER STRUCTURES
 - EXISTING SANITARY STRUCTURES
 - ⊗ EXISTING WATER STRUCTURE
 - ⊗ PROPOSED PARKING COUNT



ALERT TO CONTRACTOR:
 PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATER TOWN, MA 02472
 PHONE (617) 576-0007
 INFO@CORE-STATES.COM

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CLIENT
Pilot TRAVEL CENTERS
 PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909

811
 Know what's below. Call before you dig.
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS. RECORDS OF THE PUBLIC UTILITIES ARE SUBJECT TO CHANGE WITHOUT NOTICE. MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT GUARANTEE THE LOCATION OR DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 OVERALL SITE
 PLAN

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C3.0

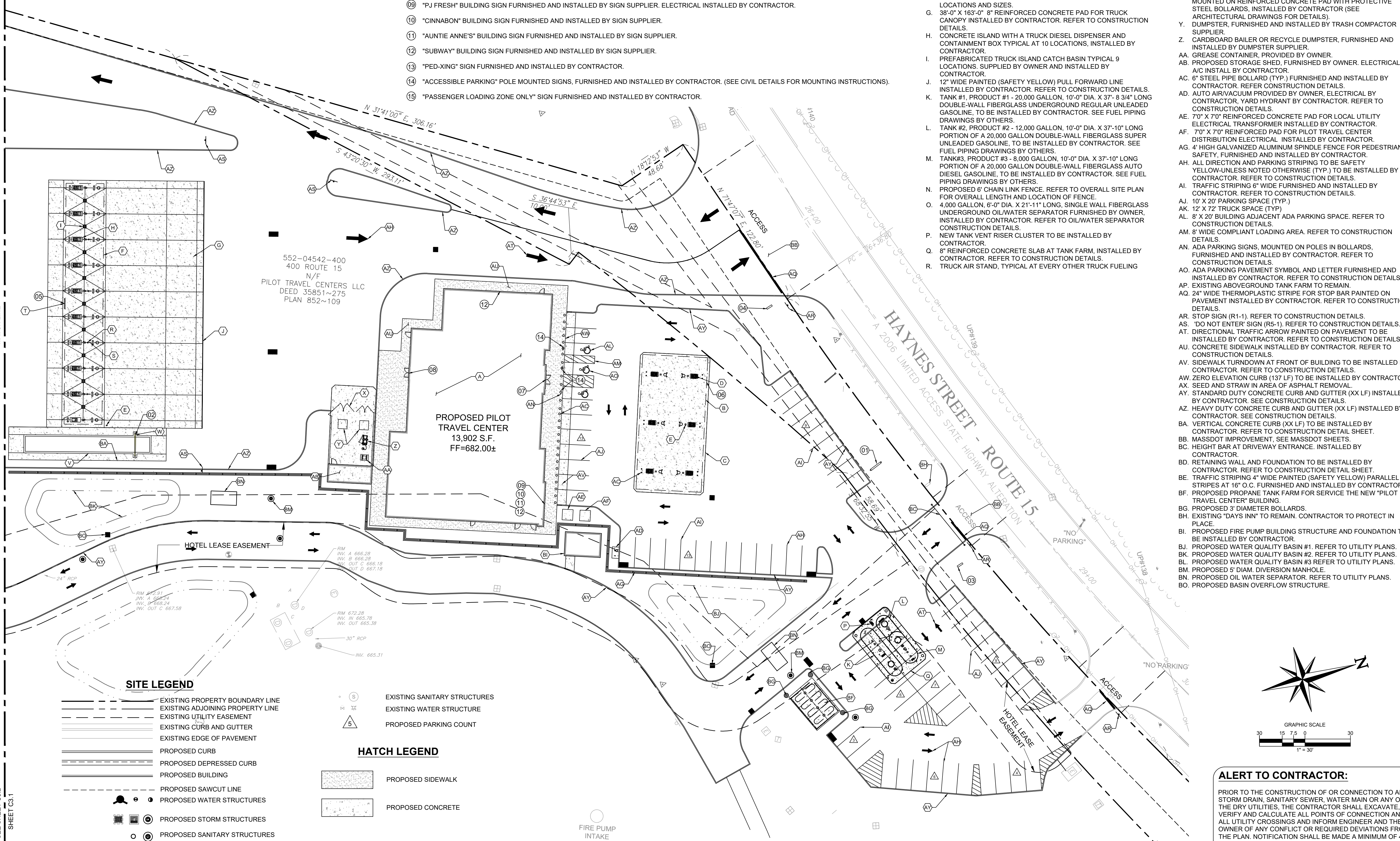
SEE SHEET C3.2 SHEET C3.1
MATCH LINE
SEE SHEET C3.2 SHEET C3.1

SIGNAGE KEYNOTES (X)

- 01 "PILOT" GOAL POST SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION INSTALLED BY SIGN SUPPLIER.
- 02 "TRUCK SCALE" INTERNALLY ILLUMINATED SIGN FURNISHED AND INSTALLED BY TRUCK SCALE SUPPLIER. CONCRETE FOUNDATION BY TRUCK SCALE SUPPLIER. ELECTRICAL PROVIDED TO SCALE BY CONTRACTOR.
- 03 "AUTO ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
- 04 "TRUCK ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
- 05 DEF LED PRICER SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
- 06 "PILOT" CANOPY LOGO FURNISHED AND INSTALLED BY CANOPY SUPPLIER.
- 07 "PILOT" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
- 08 "WELCOME DRIVERS" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
- 09 "PJ FRESH" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
- 10 "CINNABON" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 11 "AUNTIE ANNE'S" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 12 "SUBWAY" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 13 "PED-XING" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.
- 14 "ACCESSIBLE PARKING" POLE MOUNTED SIGNS, FURNISHED AND INSTALLED BY CONTRACTOR. (SEE CIVIL DETAILS FOR MOUNTING INSTRUCTIONS).
- 15 "PASSENGER LOADING ZONE ONLY" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.

KEYED NOTES: (X)

- A. "PILOT" 13,902 SF TRAVEL CENTER BUILDING. SEE ARCHITECTURAL DRAWINGS. INSTALLED BY CONTRACTOR.
- B. 43'-0" X 38'-9" AUTO CANOPY TO BE FURNISHED AND INSTALLED BY CANOPY SUPPLIER. CANOPY FOUNDATIONS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR TO COORDINATE FINAL COLUMN LOCATIONS AND SIZES.
- C. 40'-0" X 92" 6" REINFORCED CONCRETE PAD FOR AUTO AUTO CANOPY. INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- D. CONCRETE ISLAND WITH WITH GAS/AUTO DIESEL (3 + 1) DISPENSER TYPICAL IN 6 LOCATIONS. INSTALLED BY CONTRACTOR. REFER TO FUEL PIPING DRAWINGS BY OTHERS.
- E. FUEL EMERGENCY STOP BUTTON TO BE INSTALLED BY CONTRACTOR. REFER TO FUEL PIPING DRAWINGS BY OTHERS.
- F. 25'-0" X 158'-9" TRUCK CANOPY TO BE FURNISHED AND INSTALLED BY CANOPY SUPPLIER. CANOPY FOUNDATIONS TO BE INSTALLED BY CONTRACTOR. CONTRACTOR TO COORDINATE FINAL COLUMN LOCATIONS AND SIZES.
- G. 38'-0" X 163'-0" 8" REINFORCED CONCRETE PAD FOR TRUCK CANOPY INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- H. CONCRETE ISLAND WITH A TRUCK DIESEL DISPENSER AND CONTAINMENT BOX TYPICAL AT 10 LOCATIONS, INSTALLED BY CONTRACTOR.
- I. PREFABRICATED TRUCK ISLAND CATCH BASIN TYPICAL 9 LOCATIONS. SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
- J. 12" WIDE PAINTED (SAFETY YELLOW) PULL FORWARD LINE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- K. TANK #1, PRODUCT #1 - 20,000 GALLON, 10'-0" DIA. X 37'-8 3/4" LONG DOUBLE-WALL FIBERGLASS UNDERGROUND REGULAR UNLEADED GASOLINE. TO BE INSTALLED BY CONTRACTOR. SEE FUEL PIPING DRAWINGS BY OTHERS.
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- N. PROPOSED 6" CHAIN LINK FENCE. REFER TO OVERALL SITE PLAN FOR OVERALL LENGTH AND LOCATION OF FENCE.
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- P. NEW TANK VENT RISER CLUSTER TO BE INSTALLED BY CONTRACTOR.
- Q. 8" REINFORCED CONCRETE SLAB AT TANK FARM, INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- R. TRUCK AIR STAND, TYPICAL AT EVERY OTHER TRUCK FUELING ISLAND, SUPPLIED BY OWNER AND INSTALLED BY CONTRACTOR.
- S. TRUCK FREEZE PROOF WATER STAND TYPICAL AT EVERY OTHER TRUCK FUELING ISLAND FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR.
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- Y. DUMPSTER, FURNISHED AND INSTALLED BY TRASH COMPACTOR SUPPLIER.
- Z. CARDBOARD BAILER OR RECYCLE DUMPSTER, FURNISHED AND INSTALLED BY DUMPSTER SUPPLIER.
- AA. GREASE CONTAINER, PROVIDED BY OWNER.
- AB. PROPOSED STORAGE SHED, FURNISHED BY OWNER. ELECTRICAL & A/C INSTALL BY CONTRACTOR.
- AC. 6" STEEL PIPE BOLLARD (TYP.) FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
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- AF. 70" X 70" REINFORCED PAD FOR PILOT TRAVEL CENTER DISTRIBUTION ELECTRICAL. INSTALLED BY CONTRACTOR.
- AG. 4" HIGH GALVANIZED ALUMINUM SPINDLE FENCE FOR PEDESTRIAN SAFETY, FURNISHED AND INSTALLED BY CONTRACTOR.
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- AK. 12' X 72' TRUCK SPACE (TYP.)
- AL. 8' X 20' BUILDING ADJACENT ADA PARKING SPACE. REFER TO CONSTRUCTION DETAILS.
- AM. 8' WIDE COMPLIANT LOADING AREA. REFER TO CONSTRUCTION DETAILS.
- AN. ADA PARKING SIGNS, MOUNTED ON POLES IN BOLLARDS, FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AO. ADA PARKING PAVEMENT SYMBOL AND LETTER FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AP. EXISTING ABOVEGROUND TANK FARM TO REMAIN.
- AQ. 24" WIDE THERMOPLASTIC STRIPE FOR STOP BAR PAINTED ON PAVEMENT INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AR. STOP SIGN (R1-1). REFER TO CONSTRUCTION DETAILS.
- AS. "DO NOT ENTER" SIGN (R5-1). REFER TO CONSTRUCTION DETAILS.
- AT. DIRECTIONAL TRAFFIC ARROW PAINTED ON PAVEMENT TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AU. CONCRETE SIDEWALK INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AV. SIDEWALK TURNDOWN AT FRONT OF BUILDING TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AW. ZERO ELEVATION CURB (137 LF) TO BE INSTALLED BY CONTRACTOR.
- AX. SEED AND STRAW IN AREA OF ASPHALT REMOVAL.
- AY. STANDARD DUTY CONCRETE CURB AND GUTTER (XX LF) INSTALLED BY CONTRACTOR. SEE CONSTRUCTION DETAILS.
- AZ. HEAVY DUTY CONCRETE CURB AND GUTTER (XX LF) INSTALLED BY CONTRACTOR. SEE CONSTRUCTION DETAILS.
- BA. VERTICAL CONCRETE CURB (XX LF) TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAIL SHEET.
- BB. MASSDOT IMPROVEMENT, SEE MASSDOT SHEETS.
- BC. HEIGHT BAR AT DRIVEWAY ENTRANCE. INSTALLED BY CONTRACTOR.
- BD. RETAINING WALL AND FOUNDATION TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAIL SHEET.
- BE. TRAFFIC STRIPING 4" WIDE PAINTED (SAFETY YELLOW) PARALLEL STRIPES AT 16" O.C. FURNISHED AND INSTALLED BY CONTRACTOR.
- BF. PROPOSED PROPANE TANK FARM FOR SERVICE THE NEW "PILOT TRAVEL CENTER" BUILDING.
- BG. PROPOSED 3" DIAMETER BOLLARDS.
- BH. EXISTING "DAYS INN" TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- BI. PROPOSED FIRE PUMP BUILDING STRUCTURE AND FOUNDATION TO BE INSTALLED BY CONTRACTOR.
- BJ. PROPOSED WATER QUALITY BASIN #1. REFER TO UTILITY PLANS.
- BK. PROPOSED WATER QUALITY BASIN #2. REFER TO UTILITY PLANS.
- BL. PROPOSED WATER QUALITY BASIN #3 REFER TO UTILITY PLANS.
- BM. PROPOSED 5' DIAM. DIVERSION MANHOLE.
- BN. PROPOSED OIL WATER SEPARATOR. REFER TO UTILITY PLANS.
- BO. PROPOSED BASIN OVERFLOW STRUCTURE.



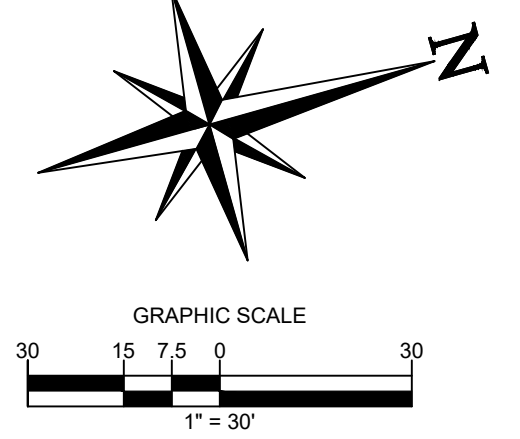
SITE LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- EXISTING ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- PROPOSED CURB
- PROPOSED DEPRESSED CURB
- PROPOSED BUILDING
- PROPOSED SAWCUT LINE
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED SITE LIGHTING FIXTURES
- EXISTING STORMWATER STRUCTURES

- EXISTING SANITARY STRUCTURES
- EXISTING WATER STRUCTURE
- PROPOSED PARKING COUNT

HATCH LEGEND

- PROPOSED SIDEWALK
- PROPOSED CONCRETE



ALERT TO CONTRACTOR:

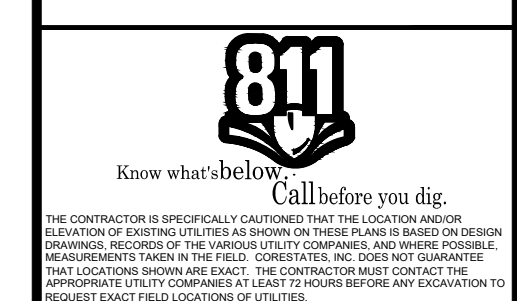
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ARCOS002@CORE-STATES.COM

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CLIENT
PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909



REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN APPROVAL

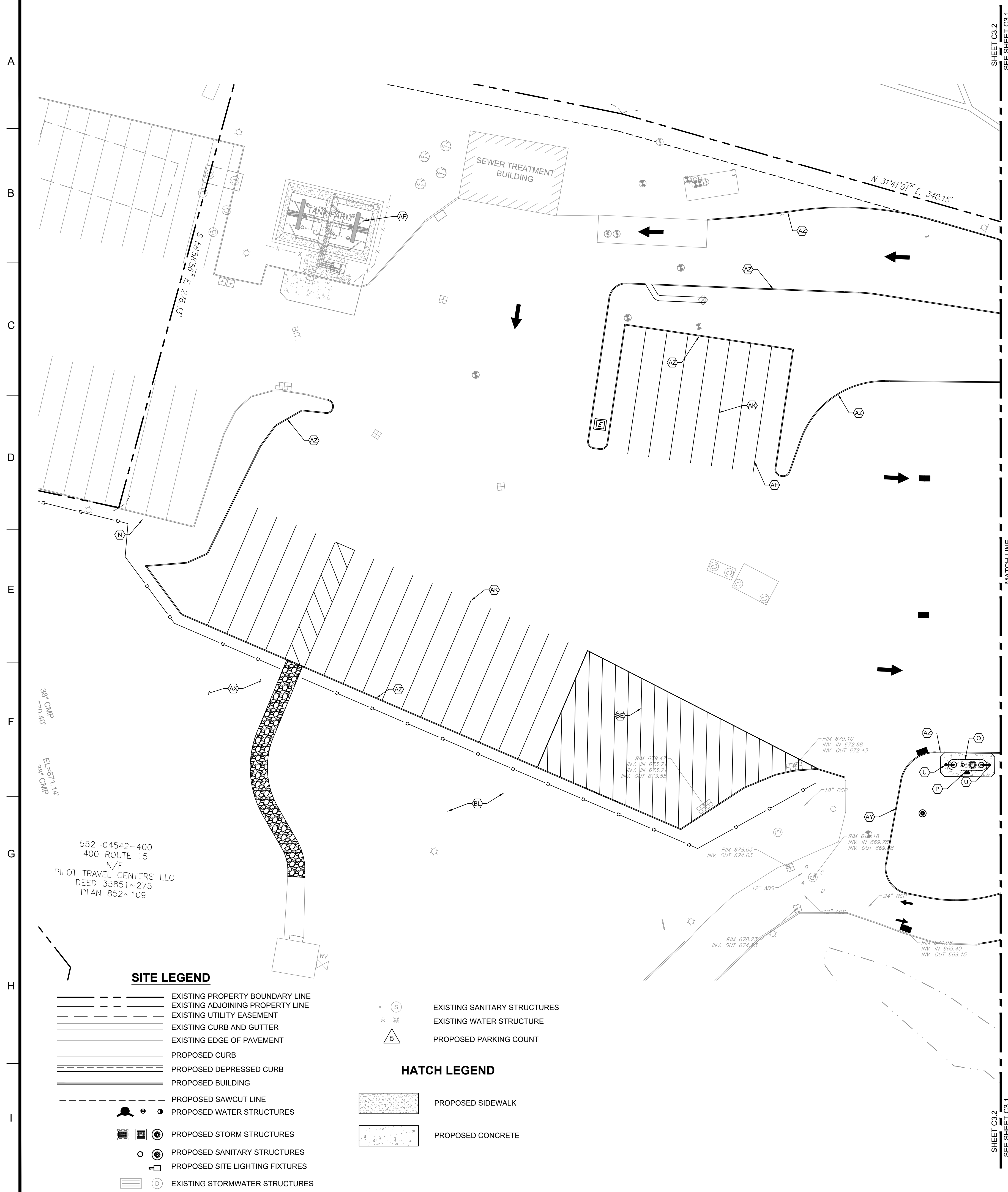
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
SITE PLAN

JOB #:	PIL 28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C3.1



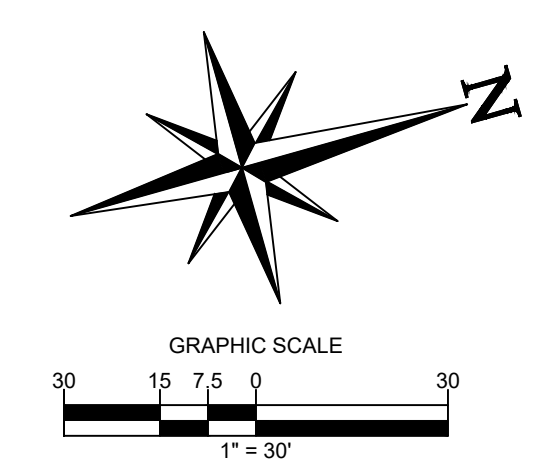
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- AO. ADA PARKING PAVEMENT SYMBOL AND LETTER FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AP. EXISTING ABOVEGROUND TANK FARM TO REMAIN.
- AQ. 24" WIDE THERMOPLASTIC STRIPE FOR STOP BAR PAINTED ON PAVEMENT INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AR. STOP SIGN (R1-1) REFER TO CONSTRUCTION DETAILS.
- AS. "DO NOT ENTER" SIGN (R5-1). REFER TO CONSTRUCTION DETAILS.
- AT. DIRECTIONAL TRAFFIC ARROW PAINTED ON PAVEMENT TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AU. CONCRETE SIDEWALK INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AV. SIDEWALK TURNDOWN AT FRONT OF BUILDING TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AW. ZERO ELEVATION CURB (137 LF) TO BE INSTALLED BY CONTRACTOR.
- AX. SEED AND STRAW IN AREA OF ASPHALT REMOVAL.
- AY. STANDARD DUTY CONCRETE CURB AND GUTTER (XX LF) INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- AZ. HEAVY DUTY CONCRETE CURB AND GUTTER (XX LF) INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.
- BA. VERTICAL CONCRETE CURB (XX LF) TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAIL SHEET.
- BB. MASSDOT IMPROVEMENT, SEE MASSDOT SHEETS.
- BC. HEIGHT BAR AT DRIVEWAY ENTRANCE. INSTALLED BY CONTRACTOR.
- BD. RETAINING WALL AND FOUNDATION TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAIL SHEET.
- BE. TRAFFIC STRIPING 4" WIDE PAINTED (SAFETY YELLOW) PARALLEL STRIPES AT 16' O.C. FURNISHED AND INSTALLED BY CONTRACTOR.
- BF. PROPOSED PROPANE TANK FARM FOR SERVICE THE NEW "PILOT TRAVEL CENTER" BUILDING.
- BG. PROPOSED 3" DIAMETER BOLLARDS.
- BH. EXISTING "DAYS INN" TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- BI. PROPOSED FIRE PUMP BUILDING STRUCTURE AND FOUNDATION TO BE INSTALLED BY CONTRACTOR.
- BJ. PROPOSED WATER QUALITY BASIN #1. REFER TO UTILITY PLANS.
- BK. PROPOSED WATER QUALITY BASIN #2. REFER TO UTILITY PLANS.
- BL. PROPOSED WATER QUALITY BASIN #3 REFER TO UTILITY PLANS.
- BM. PROPOSED 5' DIAM. DIVERSION MANHOLE.
- BN. PROPOSED OIL WATER SEPARATOR. REFER TO UTILITY PLANS.
- BO. PROPOSED BASIN OVERFLOW STRUCTURE.

SIGNAGE KEYNOTES (X)

- 01 "PILOT" GOAL POST SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION INSTALLED BY SIGN SUPPLIER.
- 02 "TRUCK SCALE" INTERNALLY ILLUMINATION SIGN FURNISHED AND INSTALLED BY TRUCK SCALE SUPPLIER. CONCRETE FOUNDATION BY TRUCK SCALE SUPPLIER, ELECTRICAL PROVIDED TO SCALE BY CONTRACTOR.
- 03 "AUTO ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
- 04 "TRUCK ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
- 05 DEF LED PRICER SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
- 06 "PILOT" CANOPY LOGO FURNISHED AND INSTALLED BY CANOPY SUPPLIER.
- 07 "PILOT" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
- 08 "WELCOME DRIVERS" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
- 09 "PJ FRESH" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
- 10 "CINNABON" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 11 "AUNTIE ANNES" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 12 "SUBWAY" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
- 13 "PED-XING" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.
- 14 "ACCESSIBLE PARKING" POLE MOUNTED SIGNS, FURNISHED AND INSTALLED BY CONTRACTOR. (SEE CIVIL DETAILS FOR MOUNTING INSTRUCTIONS).
- 15 "PASSENGER LOADING ZONE ONLY" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.



SITE LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- - - EXISTING ADJOINING PROPERTY LINE
- - - EXISTING UTILITY EASEMENT
- ===== EXISTING CURB AND GUTTER
- ===== EXISTING EDGE OF PAVEMENT
- ===== PROPOSED CURB
- ===== PROPOSED DEPRESSED CURB
- ===== PROPOSED BUILDING
- - - - - PROPOSED SAWCUT LINE
- ○ ○ ○ ○ PROPOSED WATER STRUCTURES
- □ ○ ○ ○ PROPOSED STORM STRUCTURES
- ○ ○ ○ ○ PROPOSED SANITARY STRUCTURES
- ○ ○ ○ ○ PROPOSED SITE LIGHTING FIXTURES
- □ ○ ○ ○ EXISTING STORMWATER STRUCTURES
- ○ ○ ○ ○ EXISTING SANITARY STRUCTURES
- ○ ○ ○ ○ EXISTING WATER STRUCTURE
- ○ ○ ○ ○ PROPOSED PARKING COUNT
- □ ○ ○ ○ PROPOSED SIDEWALK
- □ ○ ○ ○ PROPOSED CONCRETE

HATCH LEGEND

- □ ○ ○ ○ PROPOSED SIDEWALK
- □ ○ ○ ○ PROPOSED CONCRETE

CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATER TOWN, MA 02472
 PHONE (617) 576-0007
 ARCSOC@CORE-STATES.COM

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CLIENT
Pilot TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909



REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

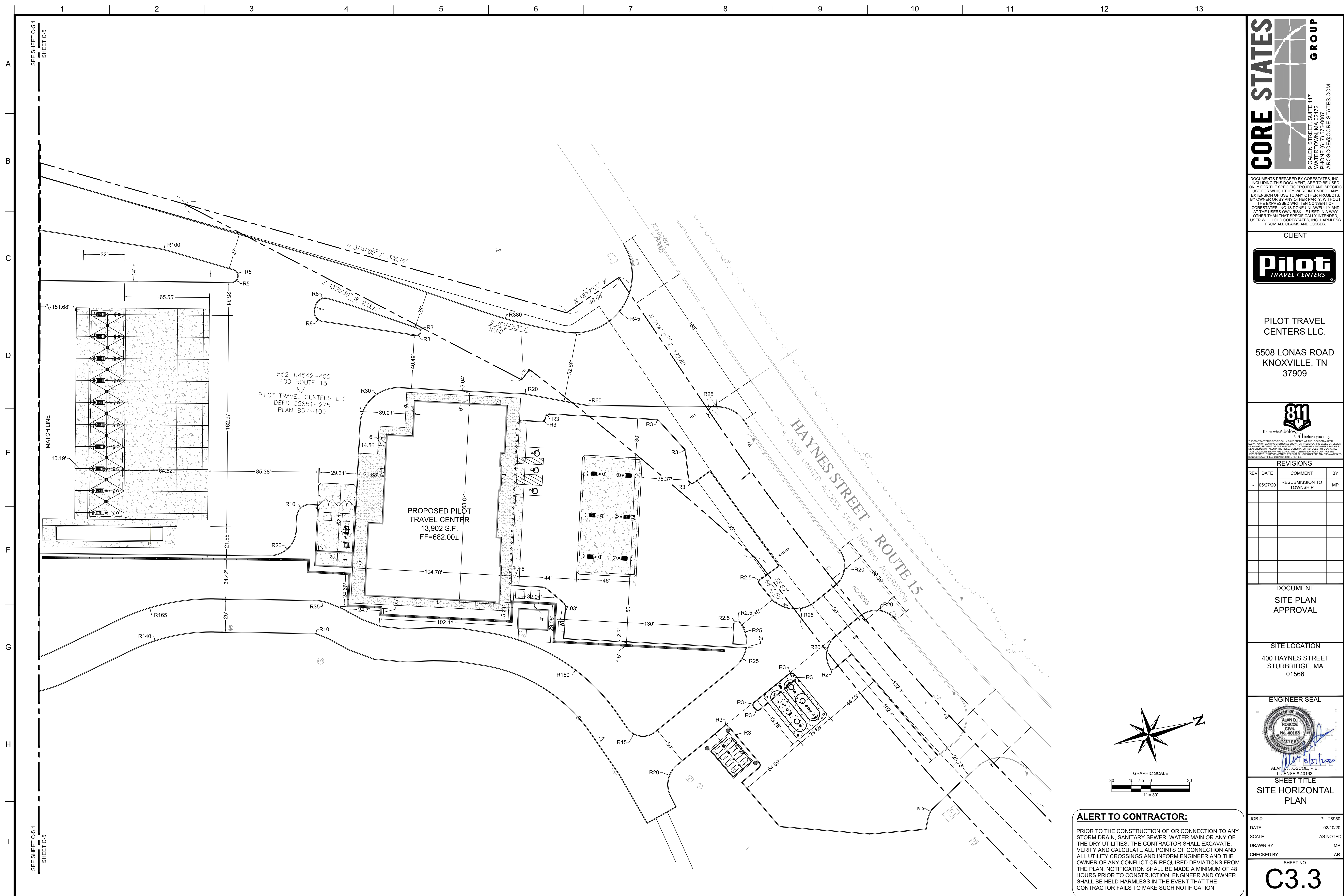
ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
SITE PLAN

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C3.2

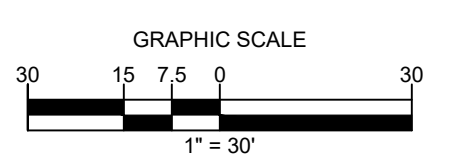
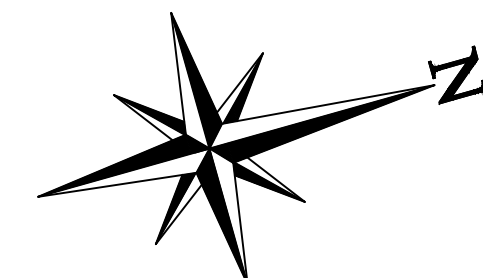
ALERT TO CONTRACTOR:
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552-04542-400
400 ROUTE 15
N/F
PILOT TRAVEL CENTERS LLC
DEED 35851~275
PLAN 852~109

PROPOSED PILOT
TRAVEL CENTER
13,902 S.F.
FF=682.00±

HAYNES STREET - ROUTE 15
A 2006 LIMITED ACCESS STATE HIGHWAY ALTERATION



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CLIENT
Pilot TRAVEL CENTERS
PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

811
Know what's below. Call before you dig.
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS. RECORDS OF THE RECORDS (R) COMPANY ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE HELD HARMLESS FROM ALL CLAIMS AND LOSSES.

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DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

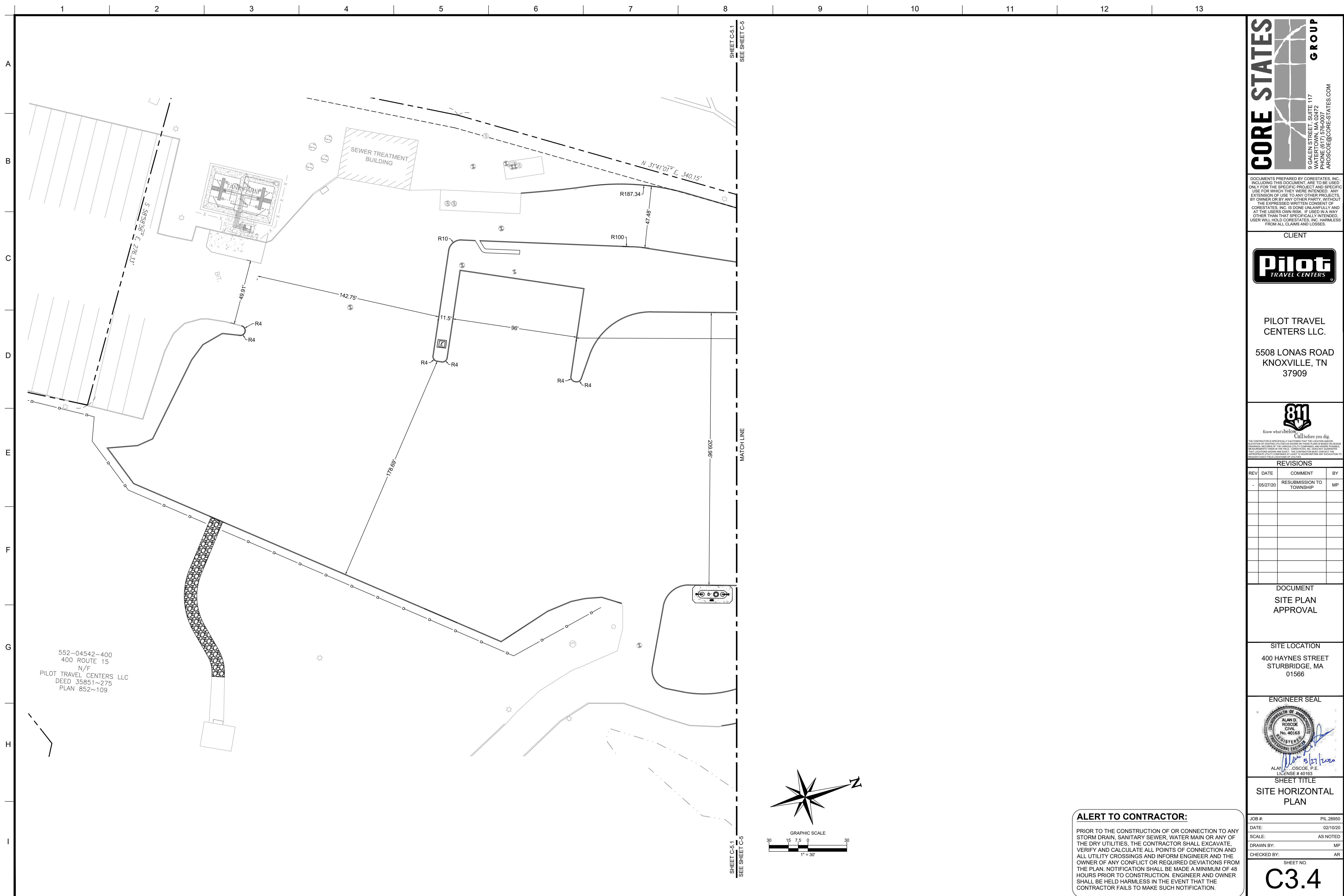
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
SITE HORIZONTAL
PLAN

JOB #:	PIL 28950
DATE:	02/10/20
SCALE:	AS NOTED
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CHECKED BY:	AR

SHEET NO.
C3.3



552-04542-400
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N/F
PILOT TRAVEL CENTERS LLC
DEED 35851~275
PLAN 852~109

CORE STATES GROUP
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WATER TOWN, MA 02472
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PILOT TRAVEL CENTERS LLC.
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KNOXVILLE, TN 37909

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Know what's below. Call before you dig.
The contractor is specifically cautioned that the location and/or depth of existing utilities shown on these plans are based on field measurements taken in the field. CORE STATES, INC. DOES NOT WARRANT THE LOCATION OR DEPTH OF UTILITIES. THE CONTRACTOR SHALL CONTACT THE UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION OF UTILITIES TO BE SHOWN ON THESE PLANS.

REVISIONS

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DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
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STURBRIDGE, MA 01566

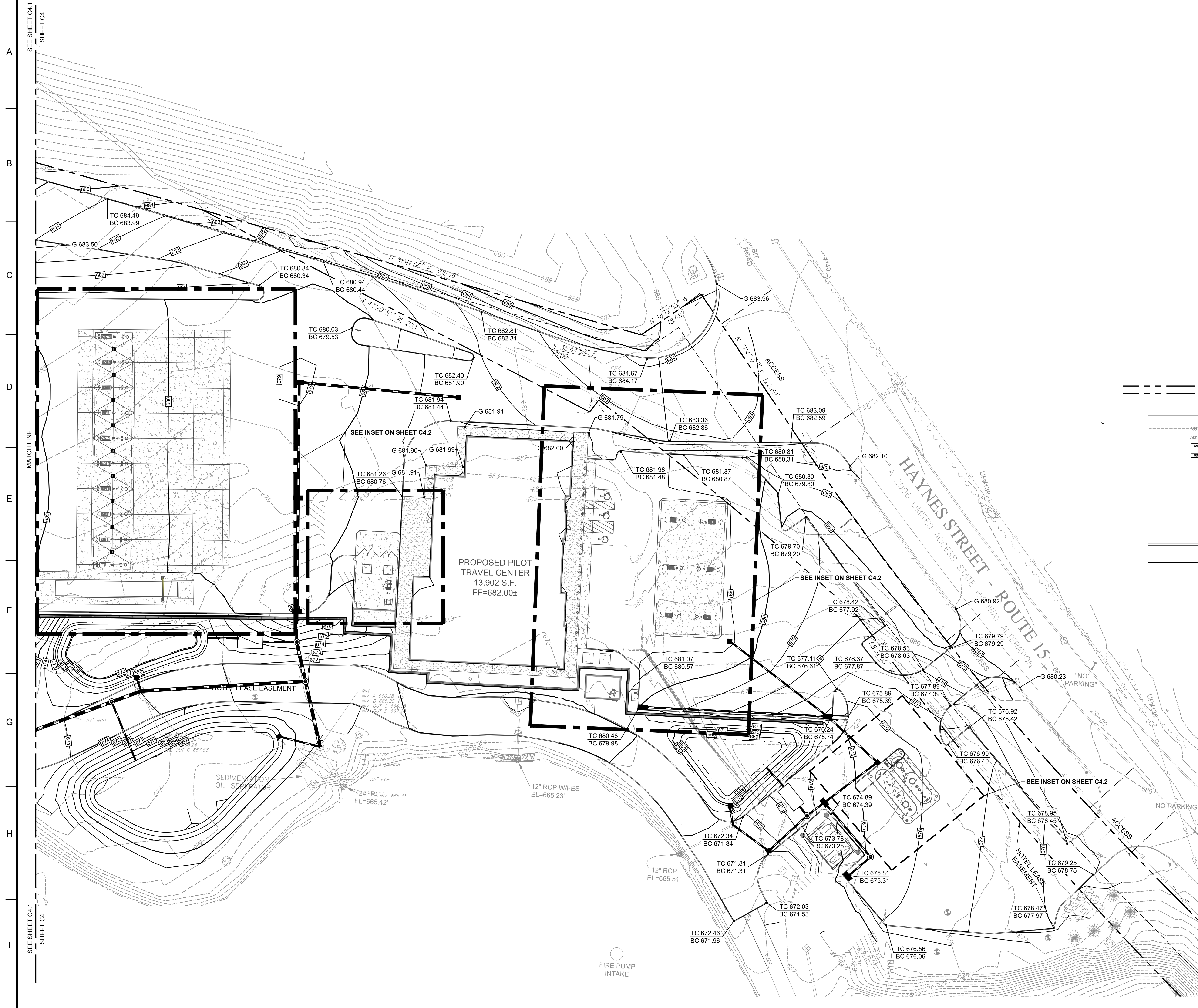
ENGINEER SEAL
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
SITE HORIZONTAL PLAN

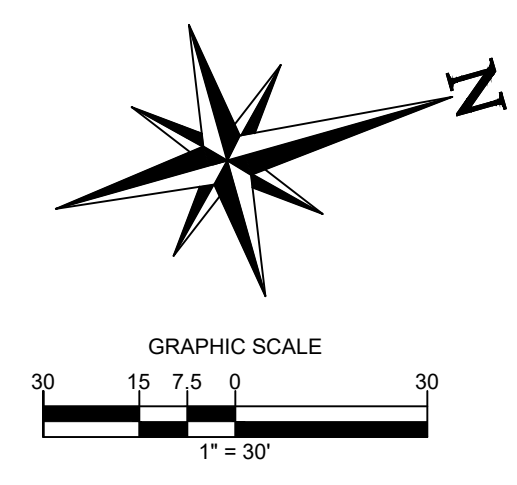
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DATE: 02/10/20
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SHEET NO.
C3.4

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- SITE LEGEND:**
- EXISTING PROPERTY BOUNDARY LINE
 - - - EXISTING ADJOINING PROPERTY LINE
 - EXISTING ROAD CENTERLINE
 - EXISTING CURB
 - EXISTING 5' INTERVAL CONTOUR LINE
 - EXISTING 1' INTERVAL CONTOUR LINE
 - PROPOSED 5' INTERVAL CONTOUR LINE
 - PROPOSED 1' INTERVAL CONTOUR LINE
 - [G XXX] PROPOSED GROUND SPOT SHOTS
 - [TW XXX] PROPOSED TOP OF WALL SPOT SHOTS
 - [BW XXX] PROPOSED BOTTOM OF WALL SPOT SHOTS
 - [TC.XX.ME] TOP OF CURB SPOT SHOTS MATCH EXISTING
 - PROPOSED CURB
 - PROPOSED RIDGE LINE



ALERT TO CONTRACTOR:

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CLIENT

Pilot TRAVEL CENTERS

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5508 LONAS ROAD
KNOXVILLE, TN 37909

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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

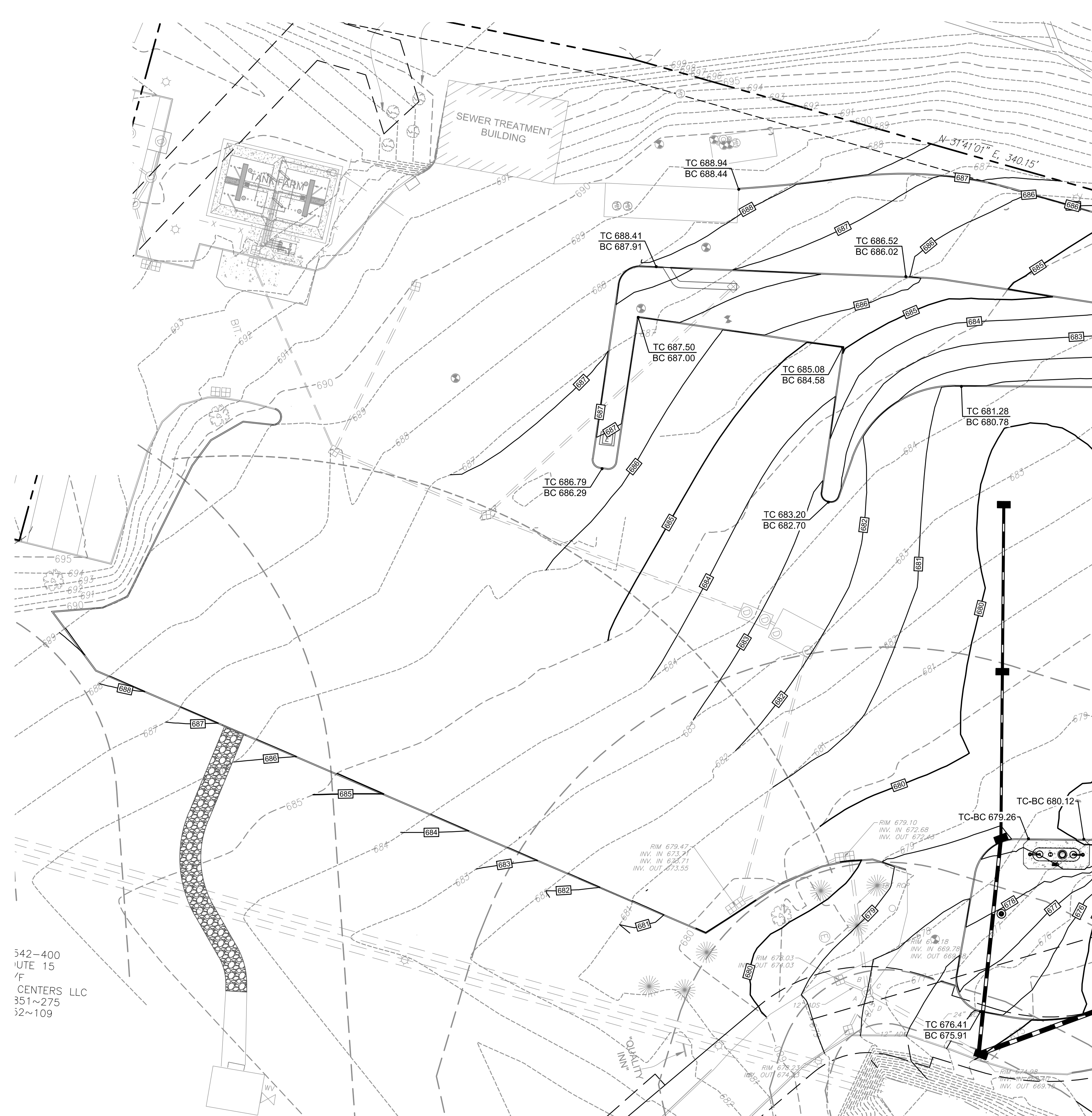
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
GRADING
PLAN

JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C4.0



SHEET C4.1
SEE SHEET C4

MATCH LINE

SHEET C4.1
SEE SHEET C4

- SITE LEGEND:**
- EXISTING PROPERTY BOUNDARY LINE
 - - - - EXISTING ADJOINING PROPERTY LINE
 - EXISTING ROAD CENTERLINE
 - EXISTING CURB
 - EXISTING 5' INTERVAL CONTOUR LINE
 - EXISTING 1' INTERVAL CONTOUR LINE
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 - G-xx-xx PROPOSED GROUND SPOT SHOTS
 - TW-xx-xx PROPOSED TOP OF WALL SPOT SHOTS
 - BW-xx-xx PROPOSED BOTTOM OF WALL SPOT SHOTS
 - TC-xx-ME TOP OF CURB SPOT SHOTS MATCH EXISTING
 - PROPOSED CURB
 - PROPOSED RIDGE LINE

- GRADING NOTES:**
- ALL PAVING AND GRADING CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE STANDARD SPECIFICATIONS AND REQUIREMENTS OF STATEN ISLAND.
 - CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE. UTILITIES ARE TO BE REMOVED TO THE RIGHT-OF-WAY.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
 - ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 - STORM PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS. PRIOR TO FINAL INSPECTION.
 - EXISTING CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
 - PROPOSED CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
 - IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 - CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
 - CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
 - TOPOGRAPHIC INFORMATION IS TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
 - ALL UNSURFACED AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
 - CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
 - CONTRACTOR TO MAINTAIN 1.5% MAXIMUM CROSS-SLOPE ON ALL SIDEWALKS AND CROSSWALKS. CONTRACTOR TO MODIFY PAVEMENT GRADES AS NECESSARY TO MAINTAIN MAXIMUM CROSS-SLOPE IN CROSSWALKS.
 - CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES WITH 2% MINIMUM SLOPE IN PAVEMENT AREAS AND 1.5% MINIMUM SLOPE IN PAVED AREAS UNLESS OTHERWISE NOTED.

342-400
UTE 15
/F
CENTERS LLC
351~275
52~109

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CLIENT

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KNOXVILLE, TN 37909

811
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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

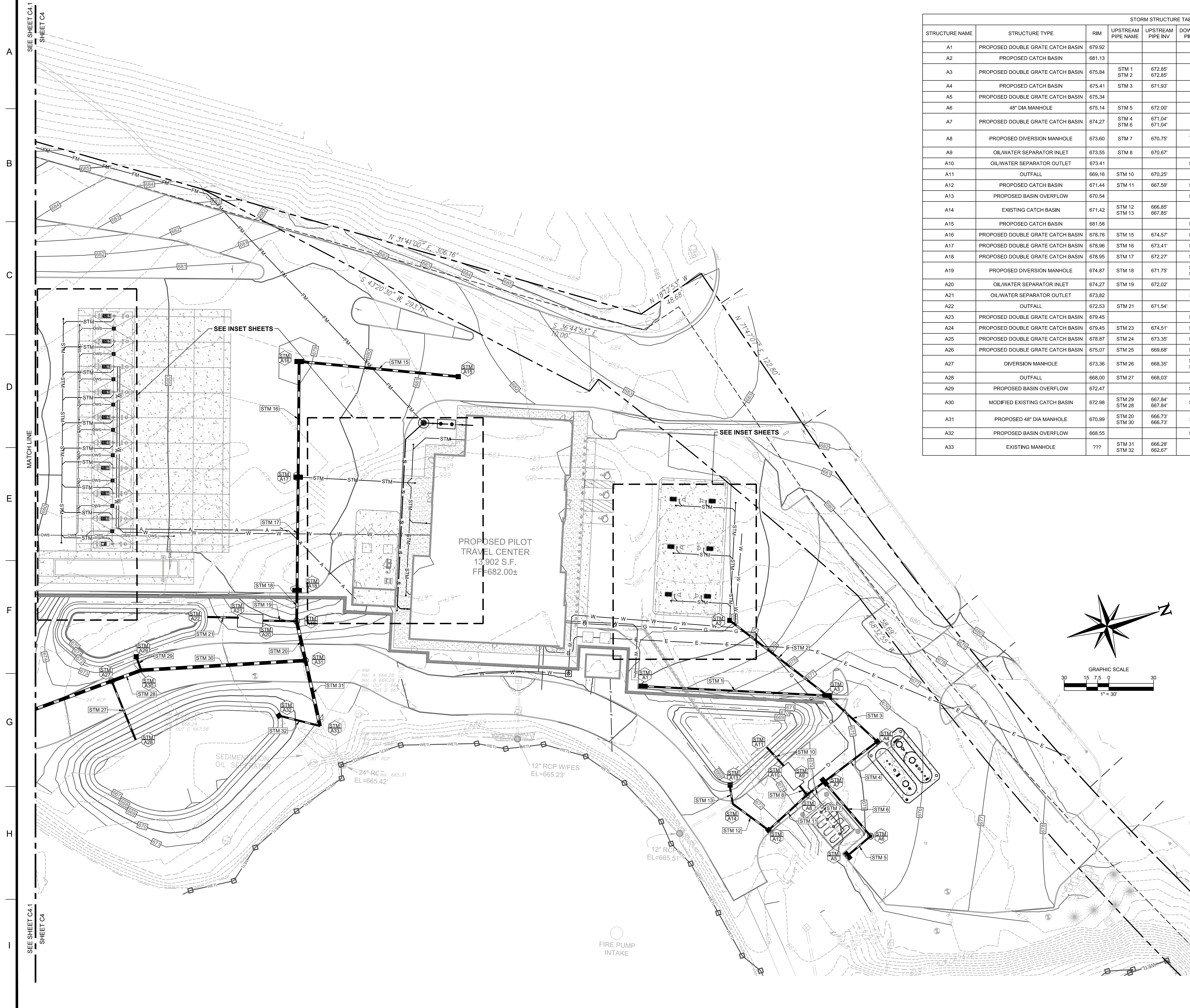
ALAN D. ROSCOE
No. 40163
REGISTERED PROFESSIONAL ENGINEER

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
GRADING
PLAN

JOB #: PIL-28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

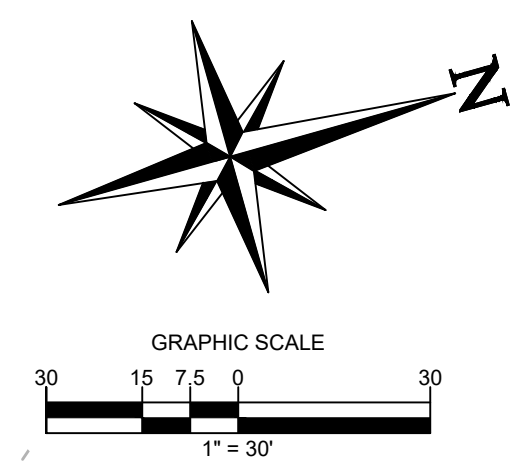
SHEET NO.
C4.1



STORM STRUCTURE TABLE									
STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
A1	PROPOSED DOUBLE GRATE CATCH BASIN	679.92			STM 1	675.55'	123.97'	12" HDPE	2.18%
A2	PROPOSED CATCH BASIN	681.13			STM 2	674.15'	82.66'	12" HDPE	1.58%
A3	PROPOSED DOUBLE GRATE CATCH BASIN	675.84	STM 1	672.85'	STM 3	672.85'	45.63'	12" HDPE	2.00%
A4	PROPOSED CATCH BASIN	675.41	STM 3	671.93'	STM 4	671.93'	44.59'	12" HDPE	2.00%
A5	PROPOSED DOUBLE GRATE CATCH BASIN	675.34			STM 5	672.41'	20.20'	12" HDPE	2.00%
A6	48" DIA MANHOLE	675.14	STM 5	672.00'	STM 6	672.00'	47.92'	12" HDPE	2.00%
A7	PROPOSED DOUBLE GRATE CATCH BASIN	674.27	STM 4	671.04'	STM 7	671.04'	14.85'	12" HDPE	2.00%
A8	PROPOSED DIVERSION MANHOLE	673.60	STM 7	670.75'	STM 11	668.47'	35.01'	12" HDPE	2.50%
A9	OIL/WATER SEPARATOR INLET	673.55	STM 8	670.67'					
A10	OIL/WATER SEPARATOR OUTLET	673.41			STM 10	670.42'	16.87'	12" HDPE	1.00%
A11	OUTFALL	669.16	STM 10	670.25'					
A12	PROPOSED CATCH BASIN	671.44	STM 11	667.59'	STM 12	667.59'	29.70'	12" HDPE	2.50%
A13	PROPOSED BASIN OVERFLOW	670.54			STM 13	668.10'	12.47'	12" HDPE	2.00%
A14	EXISTING CATCH BASIN	671.42	STM 12	666.85'	STM 13	667.85'			
A15	PROPOSED CATCH BASIN	681.58			STM 15	675.64'	107.31'	18" RCP CLASS III	1.00%
A16	PROPOSED DOUBLE GRATE CATCH BASIN	678.76	STM 15	674.57'	STM 16	674.57'	77.63'	18" RCP CLASS III	1.50%
A17	PROPOSED DOUBLE GRATE CATCH BASIN	678.96	STM 16	673.41'	STM 17	673.41'	76.06'	18" RCP CLASS III	1.50%
A18	PROPOSED DOUBLE GRATE CATCH BASIN	678.95	STM 17	672.27'	STM 18	672.27'	20.66'	18" RCP CLASS IV	2.50%
A19	PROPOSED DIVERSION MANHOLE	674.87	STM 18	671.75'	STM 20	667.00'	27.01'	24" RCP CLASS IV	1.00%
A20	OIL/WATER SEPARATOR INLET	674.27	STM 19	672.02'	STM 19	672.25'	22.70'	12" HDPE	1.00%
A21	OIL/WATER SEPARATOR OUTLET	673.82			STM 21	671.75'	20.71'	12" HDPE	1.00%
A22	OUTFALL	672.53	STM 21	671.54'					
A23	PROPOSED DOUBLE GRATE CATCH BASIN	679.45			STM 23	675.67'	77.62'	12" RCP CLASS III	1.50%
A24	PROPOSED DOUBLE GRATE CATCH BASIN	679.45	STM 23	674.51'	STM 24	674.51'	77.43'	12" RCP CLASS III	1.50%
A25	PROPOSED DOUBLE GRATE CATCH BASIN	678.87	STM 24	673.35'	STM 25	671.69'	100.86'	18" RCP CLASS III	2.00%
A26	PROPOSED DOUBLE GRATE CATCH BASIN	675.07	STM 25	669.68'	STM 26	668.18'	113.01'	24" RCP CLASS III	0.73%
A27	DIVERSION MANHOLE	673.36	STM 26	668.35'	STM 28	668.35'	21.08'	24" RCP CLASS III	2.44%
A28	OUTFALL	668.00	STM 27	668.03'	STM 27	668.35'	42.60'	12" HDPE	0.75%
A29	PROPOSED BASIN OVERFLOW	672.47			STM 29	667.93'	9.67'	12" HDPE	1.00%
A30	MODIFIED EXISTING CATCH BASIN	672.98	STM 29	667.94'	STM 28	667.94'	110.47'	24" RCP CLASS IV	1.00%
A31	PROPOSED 48" DIA MANHOLE	670.99	STM 20	666.73'	STM 30	666.73'	45.06'	24" RC CLASS IV	1.00%
A32	PROPOSED BASIN OVERFLOW	668.55			STM 32	662.95'	28.37'	12" HDPE	1.00%
A33	EXISTING MANHOLE	???	STM 31	666.28'	STM 32	662.67'			

UTILITY LEGEND

- EXISTING PROPERTY BOUNDARY LINE
- EXISTING ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- - - - - EXISTING 5' INTERVAL CONTOUR LINE
- - - - - EXISTING 1' INTERVAL CONTOUR LINE
- - - - - PROPOSED 5' INTERVAL CONTOUR LINE
- - - - - PROPOSED 1' INTERVAL CONTOUR LINE
- SAN # --- PROPOSED SANITARY PIPE CALLOUT
- SAN # --- PROPOSED SANITARY STRUCTURE NAME
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- PROPOSED CURB AND GUTTER
- PROPOSED CURB
- PROPOSED BUILDING
- PROPOSED SIDEWALK
- PROPOSED CONCRETE
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED SITE LIGHTING FIXTURES
- EXISTING STORMWATER STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING WATER STRUCTURE
- EXISTING ELECTRIC STRUCTURE
- G --- EXISTING GAS MAIN
- W --- EXISTING WATER MAIN
- E --- EXISTING UNDERGROUND ELECTRIC
- T --- EXISTING TELEPHONE
- OH --- EXISTING OVERHEAD WIRES
- S --- EXISTING SANITARY
- EXISTING STORM
- PROPOSED STORM PIPE
- W --- PROPOSED WATER
- FM --- PROPOSED SANITARY FORCEMAIN
- S --- PROPOSED SANITARY



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CORE STATES GROUP

9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCOSCO@CORE-STATES.COM

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CLIENT

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN 37909

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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
STORM DRAINAGE PLAN

JOB #: PIL28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C4.3



SHEET C4.1
SEE SHEET C4
MATCH LINE
SEE SHEET C4

STORM STRUCTURE TABLE									
STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV.	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV.	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
A1	PROPOSED DOUBLE GRATE CATCH BASIN	679.92			STM 1	675.55'	123.97'	12" HDPE	2.18%
A2	PROPOSED CATCH BASIN	681.13			STM 2	674.15'	82.66'	12" HDPE	1.58%
A3	PROPOSED DOUBLE GRATE CATCH BASIN	675.84	STM 1	672.85'	STM 3	672.85'	45.63'	12" HDPE	2.00%
A4	PROPOSED CATCH BASIN	675.41	STM 3	671.93'	STM 4	671.93'	44.59'	12" HDPE	2.00%
A5	PROPOSED DOUBLE GRATE CATCH BASIN	675.34			STM 5	672.41'	20.20'	12" HDPE	2.00%
A6	48" DIA MANHOLE	675.14	STM 5	672.00'	STM 6	672.00'	47.92'	12" HDPE	2.00%
A7	PROPOSED DOUBLE GRATE CATCH BASIN	674.27	STM 4	671.04'	STM 7	671.04'	14.65'	12" HDPE	2.00%
A8	PROPOSED DIVERSION MANHOLE	673.60	STM 7	670.75'	STM 11	668.47'	35.01'	12" HDPE	2.50%
A9	OIL/WATER SEPARATOR INLET	673.55	STM 8	670.67'					
A10	OIL/WATER SEPARATOR OUTLET	673.41			STM 10	670.42'	16.87'	12" HDPE	1.90%
A11	OUTFALL	669.16	STM 10	670.25'					
A12	PROPOSED CATCH BASIN	671.44	STM 11	667.59'	STM 12	667.59'	29.70'	12" HDPE	2.50%
A13	PROPOSED BASIN OVERFLOW	670.54			STM 13	668.10'	12.47'	12" HDPE	2.00%
A14	EXISTING CATCH BASIN	671.42	STM 12	666.85'	STM 13	667.85'			
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A16	PROPOSED DOUBLE GRATE CATCH BASIN	678.76	STM 15	674.57'	STM 16	674.57'	77.63'	18" RCP CLASS III	1.50%
A17	PROPOSED DOUBLE GRATE CATCH BASIN	678.86	STM 16	673.41'	STM 17	673.41'	76.06'	18" RCP CLASS III	1.50%
A18	PROPOSED DOUBLE GRATE CATCH BASIN	678.95	STM 17	672.27'	STM 18	672.27'	20.66'	18" RCP CLASS IV	2.50%
A19	PROPOSED DIVERSION MANHOLE	674.87	STM 18	671.75'	STM 20	667.00'	27.01'	24" RCP CLASS IV	1.00%
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A22	OUTFALL	672.53	STM 21	671.54'					
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A24	PROPOSED DOUBLE GRATE CATCH BASIN	679.45	STM 23	674.51'	STM 24	674.51'	77.43'	12" RCP CLASS III	1.50%
A25	PROPOSED DOUBLE GRATE CATCH BASIN	678.87	STM 24	673.35'	STM 25	671.69'	100.86'	18" RCP CLASS III	2.00%
A26	PROPOSED DOUBLE GRATE CATCH BASIN	675.07	STM 25	669.68'	STM 26	669.16'	113.01'	24" RCP CLASS III	0.73%
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A28	OUTFALL	668.00	STM 27	668.03'					
A29	PROPOSED BASIN OVERFLOW	672.47			STM 29	667.93'	9.67'	12" HDPE	1.00%
A30	MODIFIED EXISTING CATCH BASIN	672.98	STM 29	667.84'	STM 30	667.84'	110.47'	24" RCP CLASS IV	1.00%
A31	PROPOSED 48" DIA MANHOLE	670.99	STM 30	666.73'	STM 31	666.73'	45.06'	24" RC CLASS IV	1.00%
A32	PROPOSED BASIN OVERFLOW	668.55			STM 32	662.95'	28.37'	12" HDPE	1.00%
A33	EXISTING MANHOLE	???	STM 31	666.28'	STM 32	662.67'			

UTILITY LEGEND

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- EXISTING ADJOINING PROPERTY LINE
- EXISTING UTILITY EASEMENT
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING 1' INTERVAL CONTOUR LINE
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- PROPOSED SANITARY STRUCTURE NAME
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- PROPOSED CURB AND GUTTER
- PROPOSED CURB
- PROPOSED BUILDING
- PROPOSED SIDEWALK
- PROPOSED CONCRETE
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- ○ ○ ○ ○ PROPOSED SANITARY STRUCTURES
- ○ ○ ○ ○ PROPOSED SITE LIGHTING FIXTURES
- ○ ○ ○ ○ EXISTING STORMWATER STRUCTURES
- ○ ○ ○ ○ EXISTING SANITARY STRUCTURES
- ○ ○ ○ ○ EXISTING WATER STRUCTURE
- ○ ○ ○ ○ EXISTING ELECTRIC STRUCTURE
- G --- G --- EXISTING GAS MAIN
- W --- W --- EXISTING WATER MAIN
- E --- E --- EXISTING UNDERGROUND ELECTRIC
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- FM --- FM --- PROPOSED WATER
- S --- S --- PROPOSED SANITARY FORCEMAIN
- S --- S --- PROPOSED SANITARY

CORE STATES GROUP
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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909

Know what's below. Call before you dig.
 THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS. RECORDS OF THE RECORDS (R) COMPANY ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION.

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
STORM DRAINAGE PLAN

JOB #: PIL28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C4.3.1

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SITE LEGEND

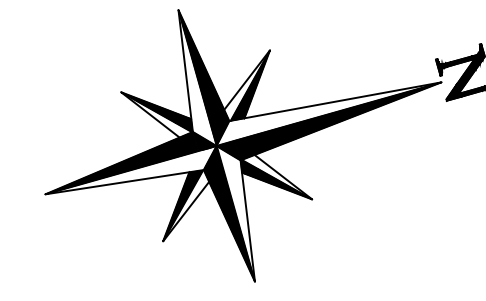
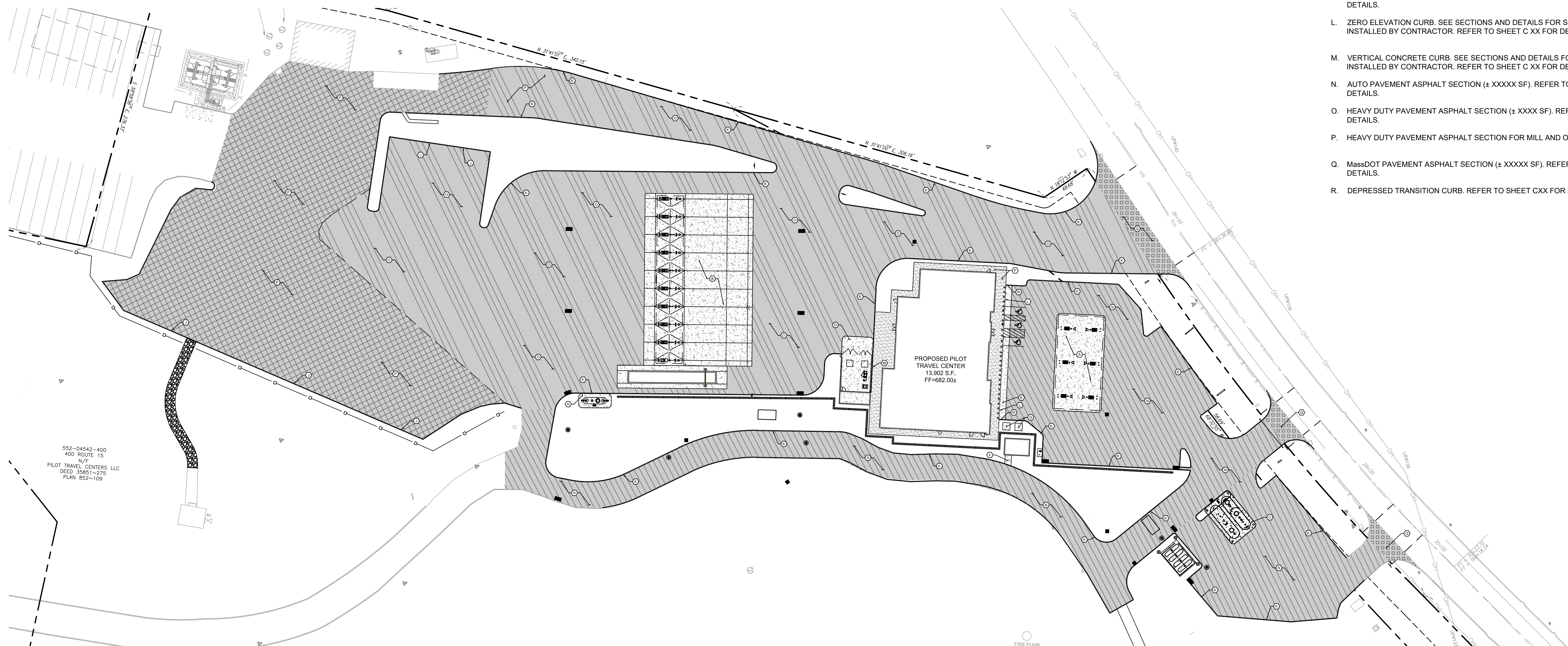
- EXISTING PROPERTY BOUNDARY LINE
- - - EXISTING ADJOINING PROPERTY LINE
- - - EXISTING UTILITY EASEMENT
- ==== EXISTING CURB AND GUTTER
- ==== EXISTING EDGE OF PAVEMENT
- ==== PROPOSED CURB
- ==== PROPOSED DEPRESSED CURB
- ==== PROPOSED BUILDING
- - - PROPOSED SAWCUT LINE
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED SITE LIGHTING FIXTURES
- ▭ EXISTING STORMWATER STRUCTURES
- EXISTING SANITARY STRUCTURES
- ⊗ EXISTING WATER STRUCTURE
- ⊗ PROPOSED PARKING COUNT

HATCH LEGEND

- [Grid Pattern] PROPOSED MassDOT PAVEMENT
- [Diagonal Lines] PROPOSED AUTO PAVEMENT
- [Diagonal Lines] PROPOSED HEAVY DUTY TRUCK PAVEMENT
- [Cross-hatch Pattern] PROPOSED HEAVY DUTY TRUCK PAVEMENT FOR MILL AND OVERLAY

KEYED NOTES:

- A. 6" REINFORCED CONCRETE PAD FOR AUTO CANOPY. WATER FROM SITE SHOULD NOT DRAIN ACROSS THE CONCRETE PAD FOR THE AUTO CANOPY. ASPHALT PAVING ON ALL (4) SIDES OF THE CONCRETE PAD SHOULD DRAIN AWAY FROM CONCRETE PAD. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- B. 8" REINFORCED CONCRETE PAD FOR TRUCK CANOPY. WATER FROM SITE SHOULD NOT DRAIN ACROSS THE CONCRETE PAD FOR THE TRUCK CANOPY. ASPHALT PAVING ON BOTH SIDES OF THE CONCRETE PAD SHOULD DRAIN AWAY FROM CONCRETE PAD. CONCRETE PAD FOR THE TRUCK CANOPY MUST DRAIN TO CATCH BASIN. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- C. 8" REINFORCED CONCRETE PAD AT TANK FARM. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- D. 8" REINFORCED CONCRETE PAD TRASH ENCLOSURE. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- E. 6" REINFORCED CONCRETE PARKING APRON AT PARKING SPACES IN FRONT OF BUILDING. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- F. 4" REINFORCED CONCRETE SIDEWALK. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- G. 6" REINFORCED CONCRETE PAD FOR ELECTRICAL TRANSFORMER. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR SIZE AND REINFORCING REQUIREMENTS. INSTALLED BY CONTRACTOR.
- H. 8" REINFORCED CONCRETE PAD OWS TANK. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- I. 6" REINFORCED CONCRETE PAD FOR WATER TREATMENT SHED. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR.
- J. HEAVY DUTY CURB AND GUTTER. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR. REFER TO SHEET C XX FOR DETAILS.
- K. STANDARD DUTY CURB AND GUTTER. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR. REFER TO SHEET C XX FOR DETAILS.
- L. ZERO ELEVATION CURB. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR. REFER TO SHEET C XX FOR DETAILS.
- M. VERTICAL CONCRETE CURB. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS. INSTALLED BY CONTRACTOR. REFER TO SHEET C XX FOR DETAILS.
- N. AUTO PAVEMENT ASPHALT SECTION (± XXXX SF). REFER TO SHEET CXX FOR DETAILS.
- O. HEAVY DUTY PAVEMENT ASPHALT SECTION (± XXXX SF). REFER TO SHEET CXX FOR DETAILS.
- P. HEAVY DUTY PAVEMENT ASPHALT SECTION FOR MILL AND OVERLAY (± XXXX SF).
- Q. MassDOT PAVEMENT ASPHALT SECTION (± XXXX SF). REFER TO SHEET CXX FOR DETAILS.
- R. DEPRESSED TRANSITION CURB. REFER TO SHEET CXX FOR DETAILS.



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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

811
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REVISIONS

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DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER

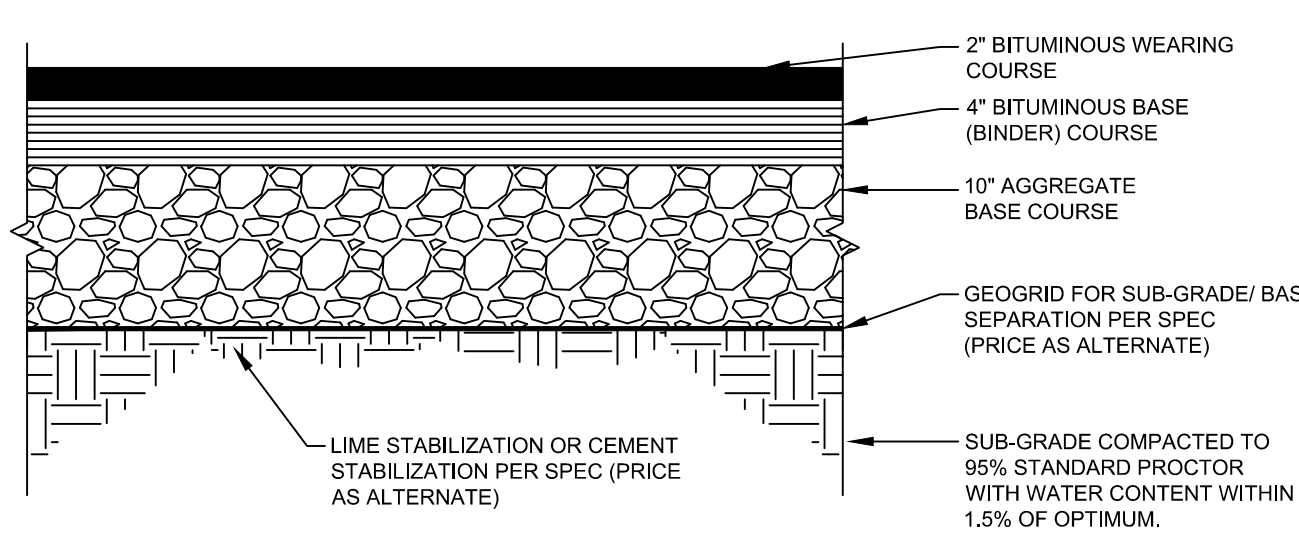
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
SITE PAVING
PLAN

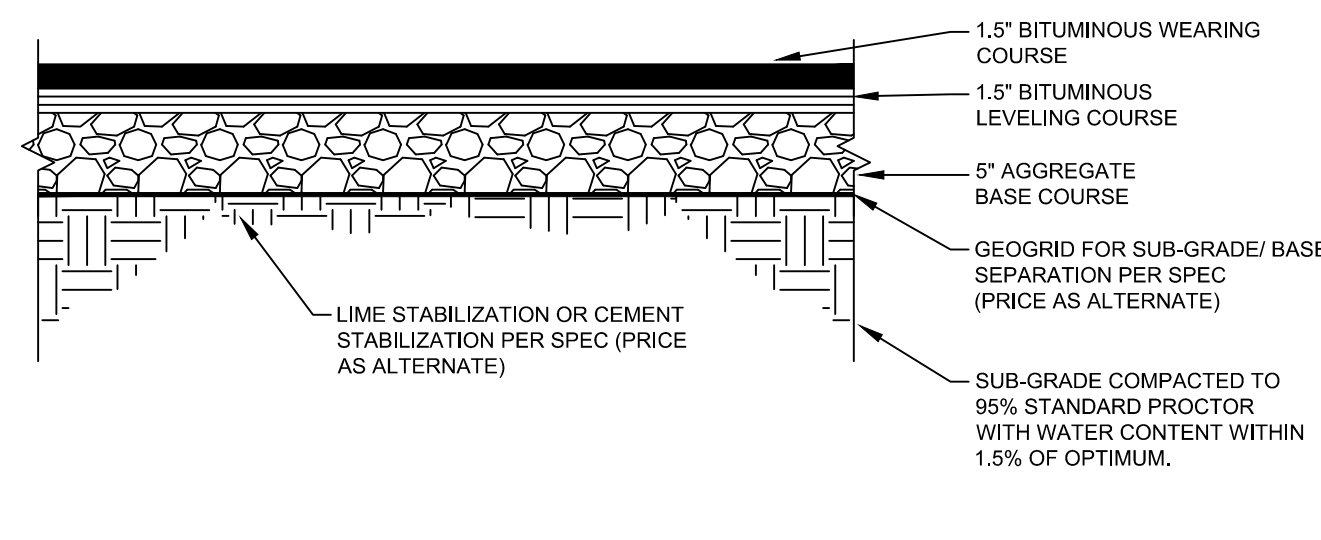
JOB #:	PIL-28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C5.0

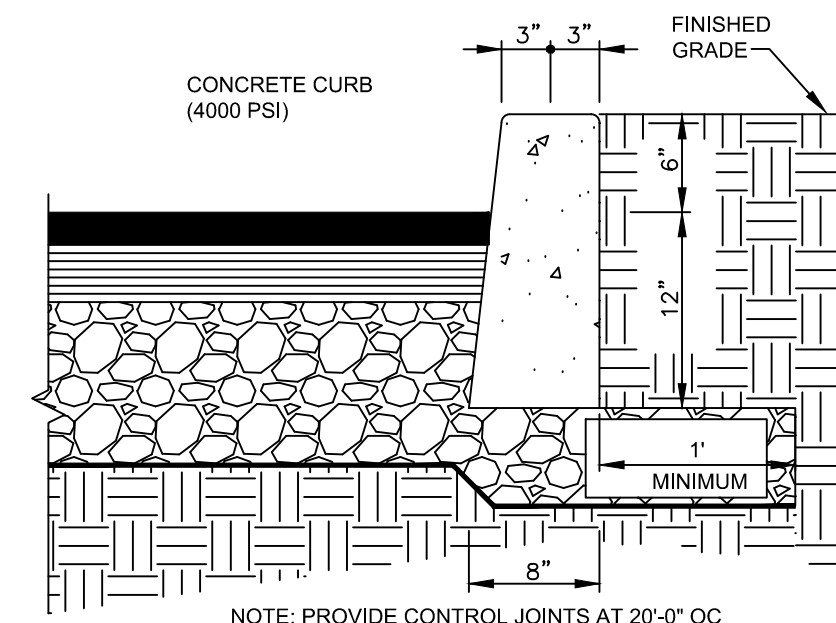
CONTRACTOR NOTE FOR DETAILS 01 C5.1 AND 02 C5.1: CONTRACTOR SHALL PROVIDE A PRICE FOR EACH GEOGRID AND STABILIZATION ALTERNATE AS OUTLINED IN THE SPECIFICATIONS MANUAL, BUT CONTRACTOR SHALL NOT INCLUDE ANY OF THE ALTERNATES IN THE BASE BID. OWNER'S REPRESENTATIVE SHALL CHOOSE AN ALTERNATE.



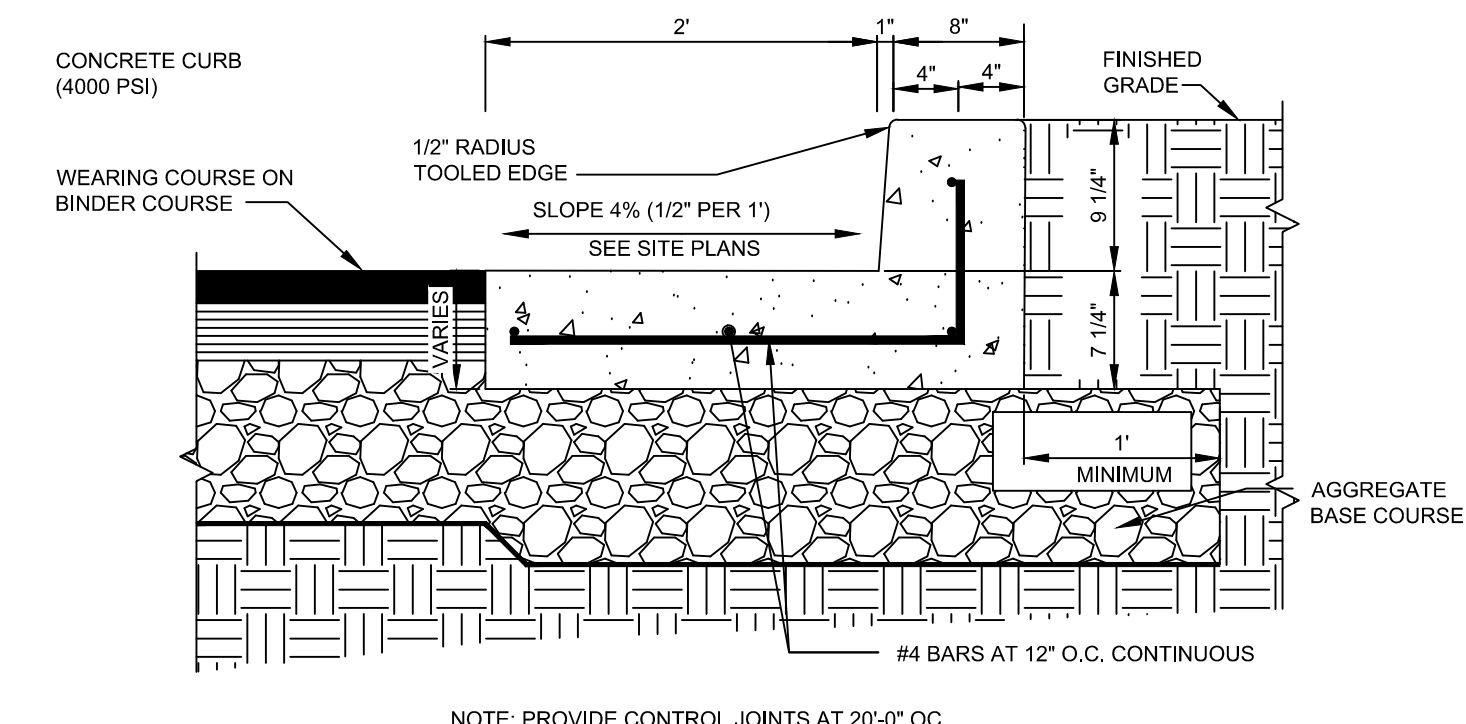
HEAVY DUTY TRUCK PAVEMENT SECTION
NTS



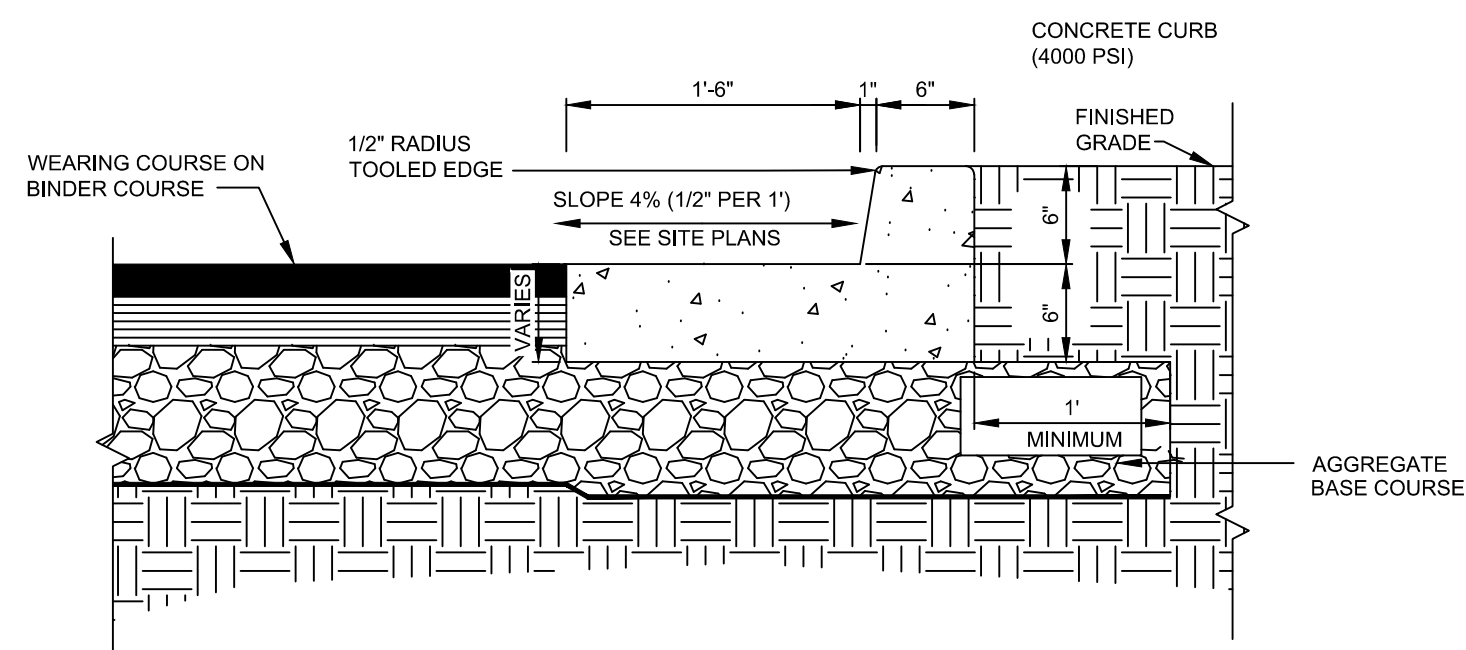
AUTO PAVEMENT SECTION
NTS



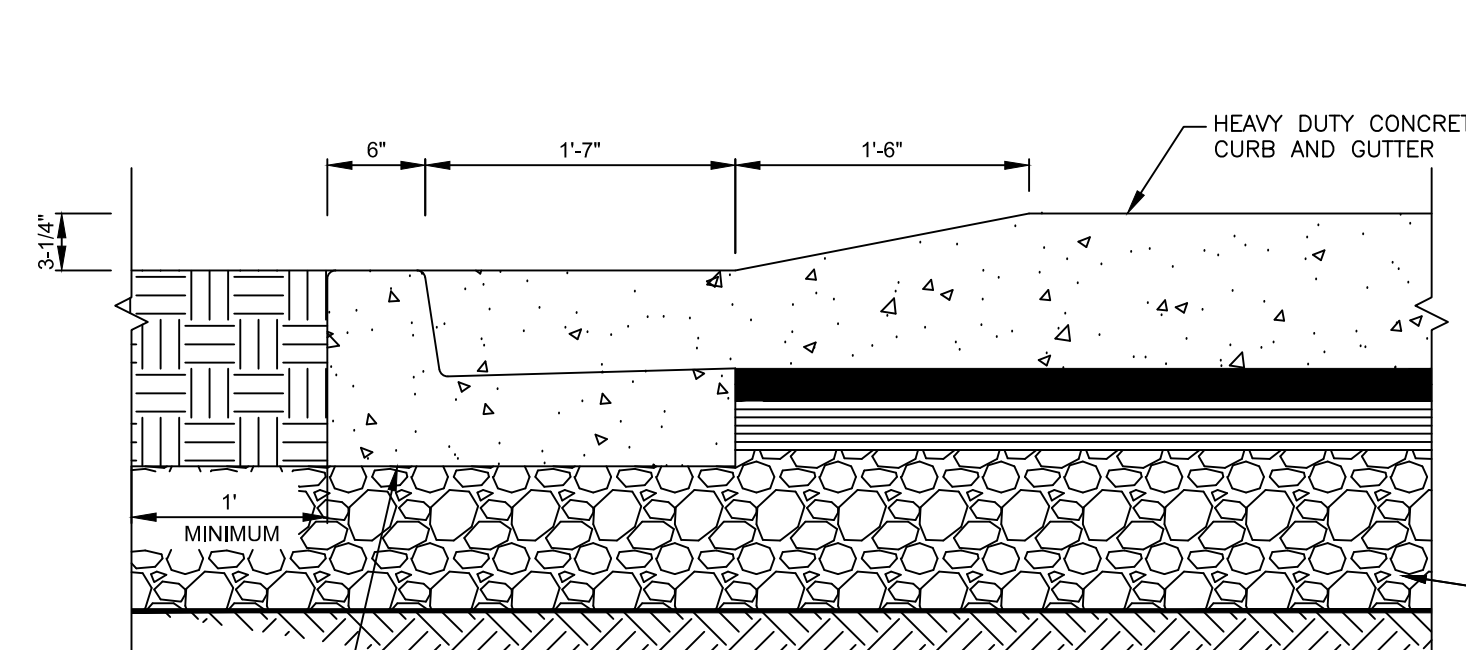
VERTICAL CONCRETE CURB
NTS



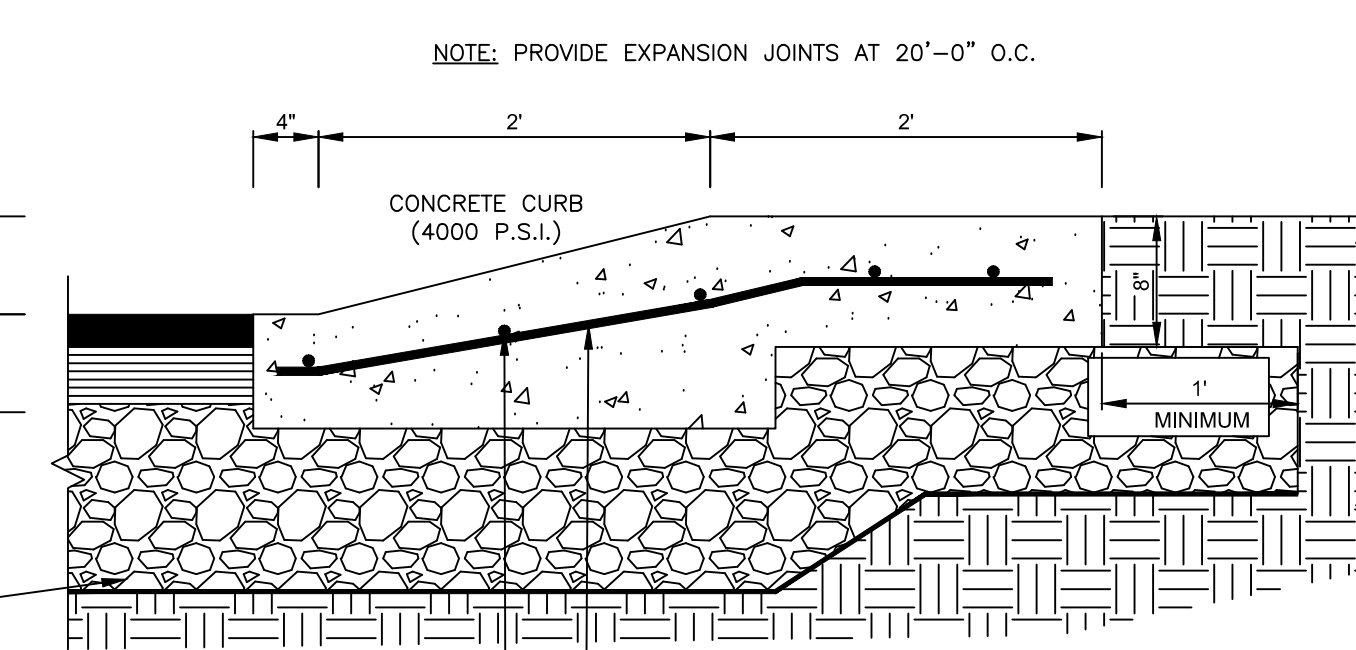
HEAVY DUTY CONCRETE CURB AND GUTTER
NTS



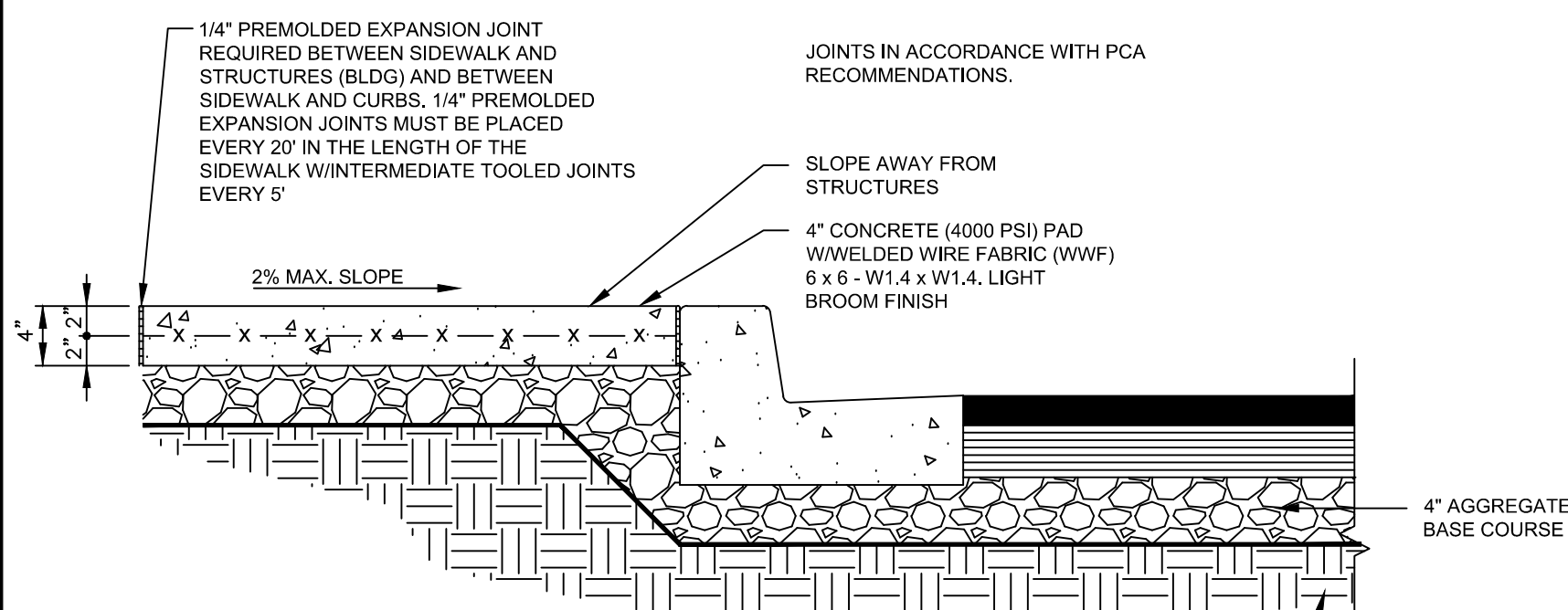
STANDARD CONCRETE CURB AND GUTTER DETAIL
NTS



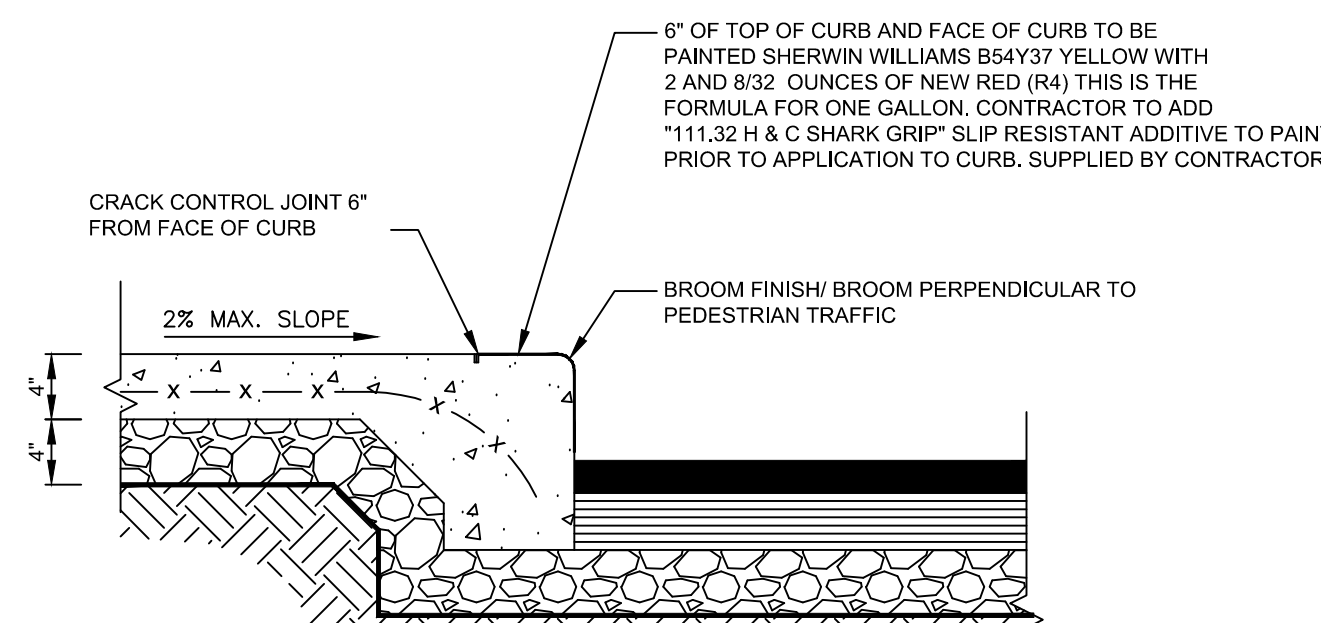
CURB TRANSITION DETAIL
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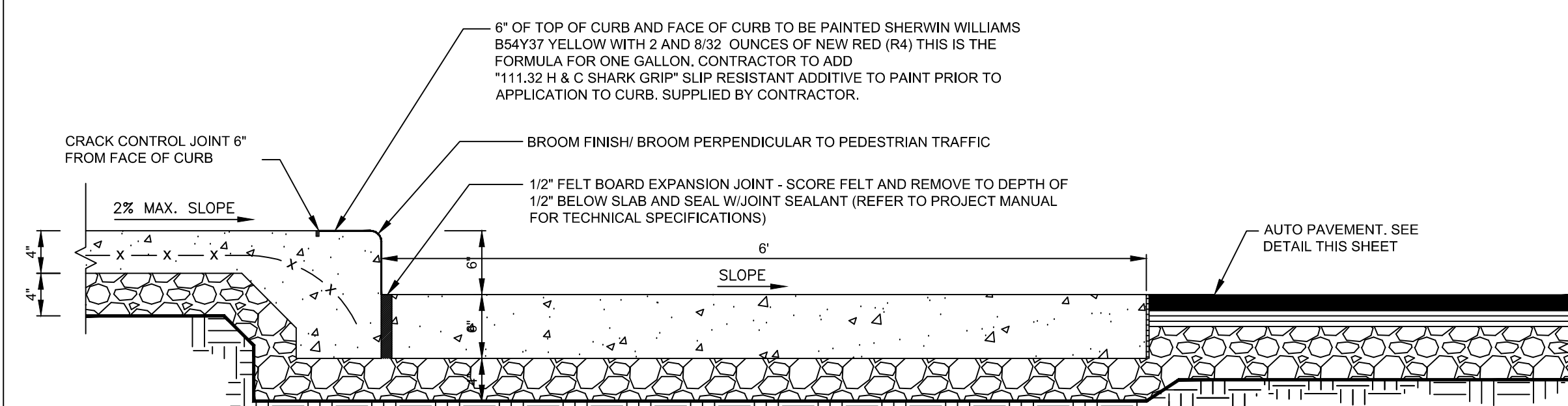
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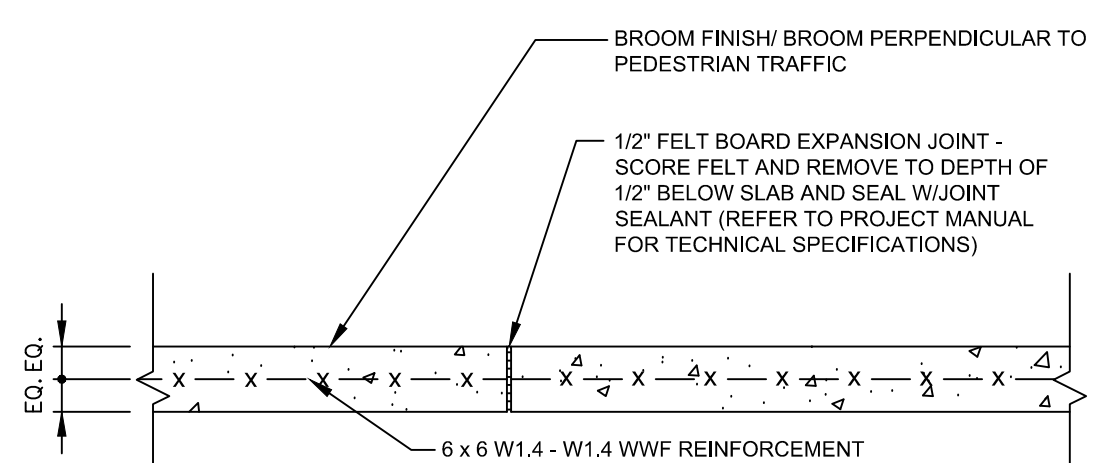
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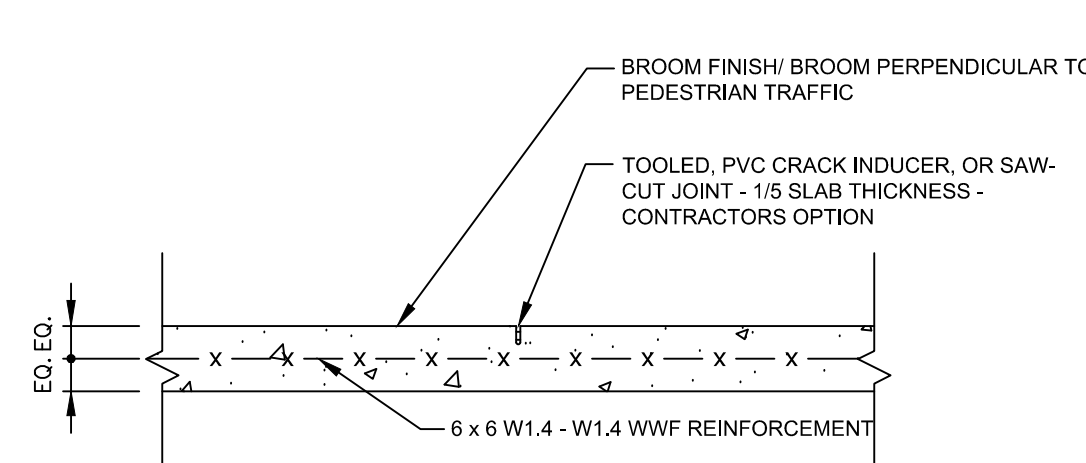
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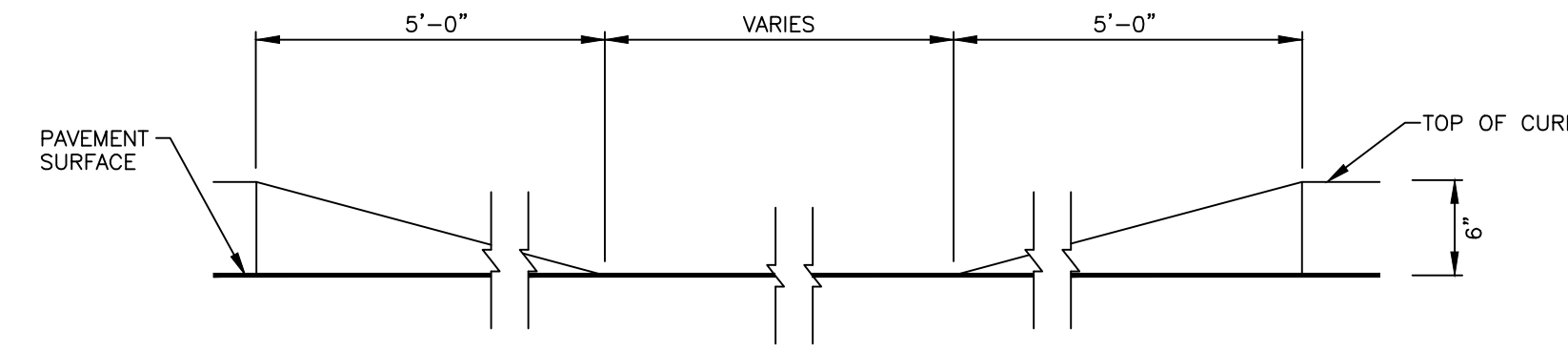
SIDEWALK TURNDOWN DETAIL AT FRONT OF BUILDING
NTS



EXPANSION JOINT DETAIL
NTS



CRACK CONTROL JOINT DETAIL
NTS



DEPRESSED CURB DETAIL
NTS



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PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN
37909

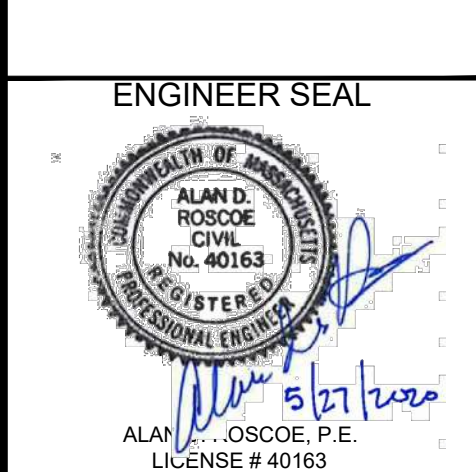


THE CONTRACTOR IS SPECIALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION.

REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

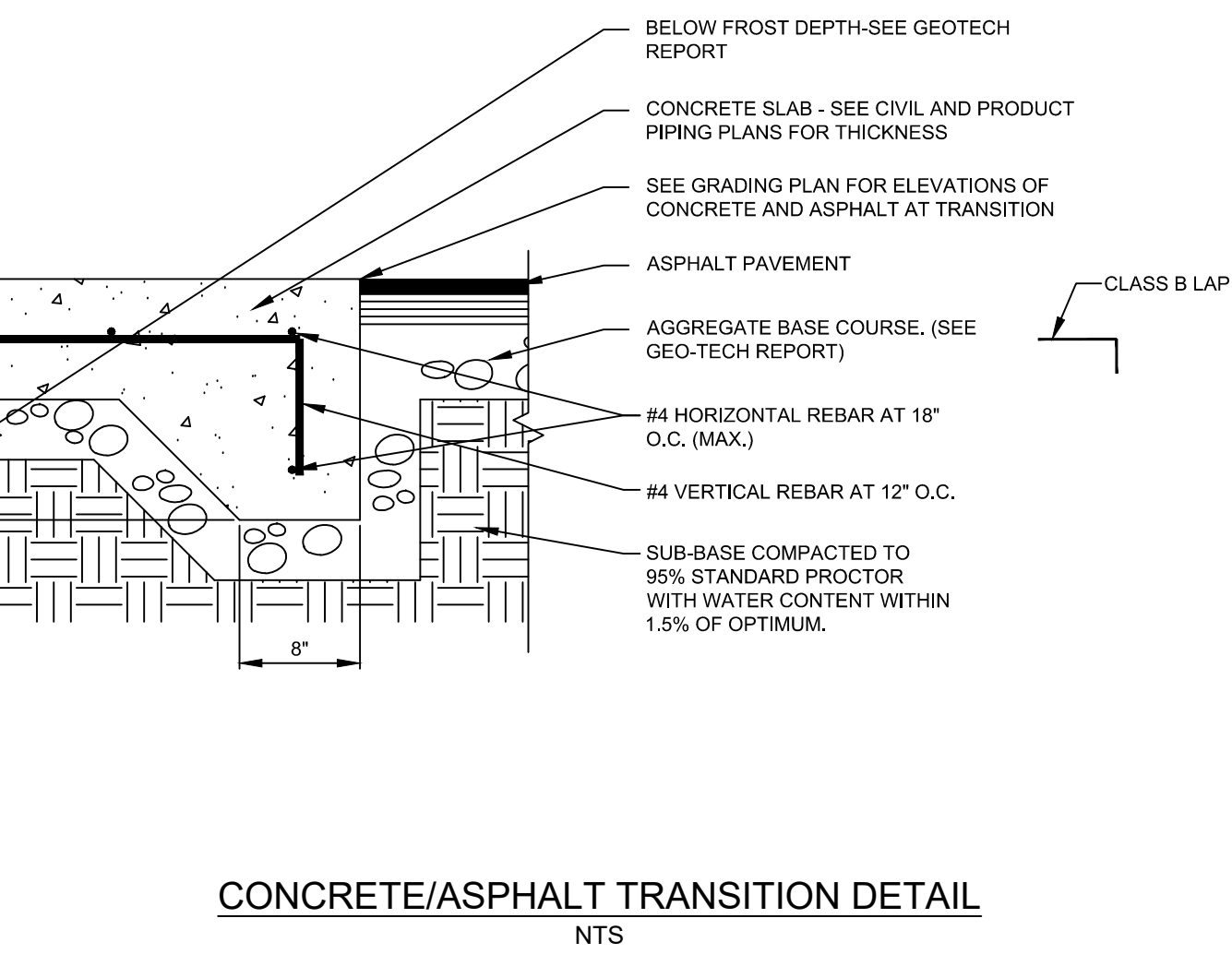
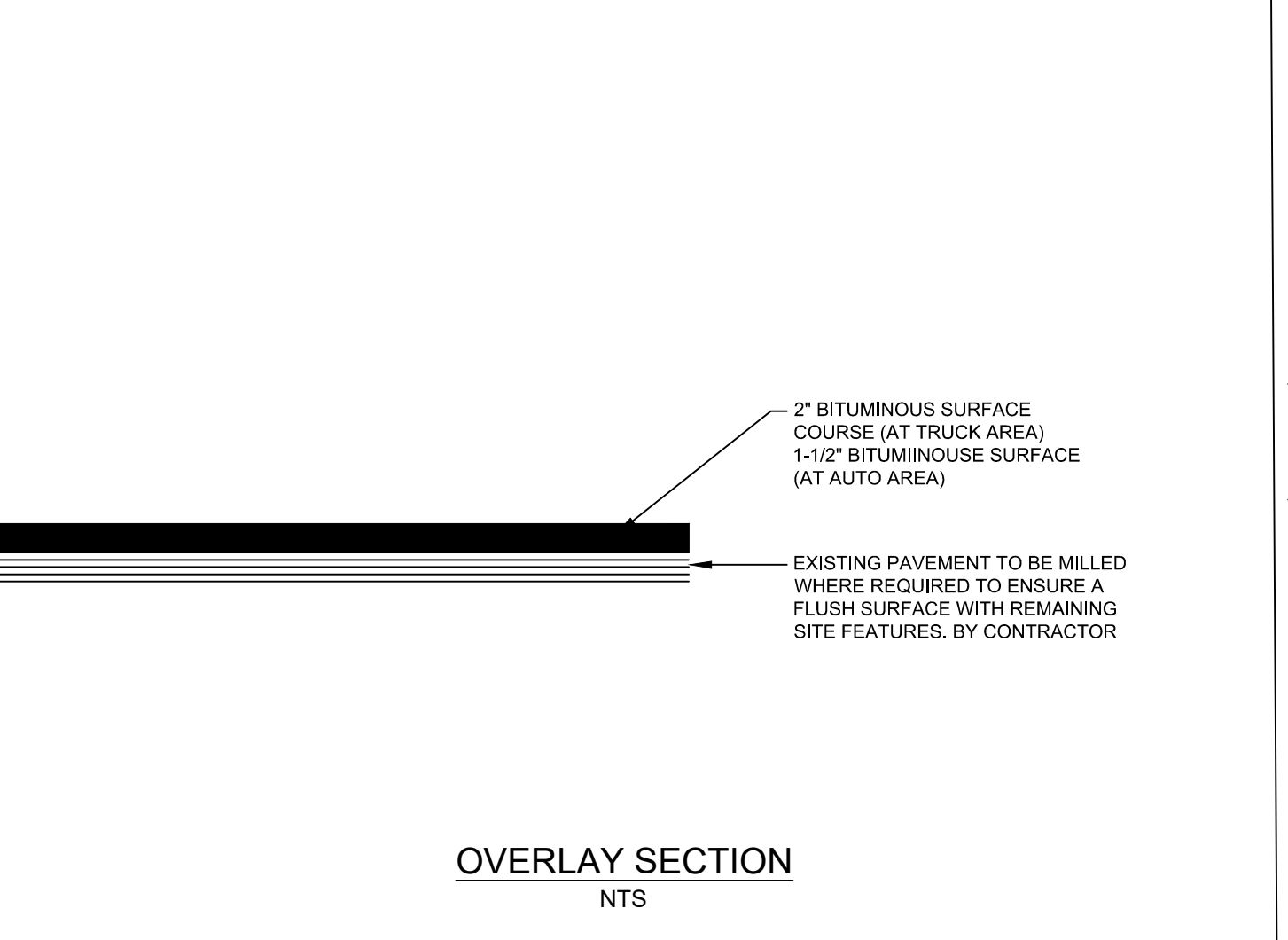
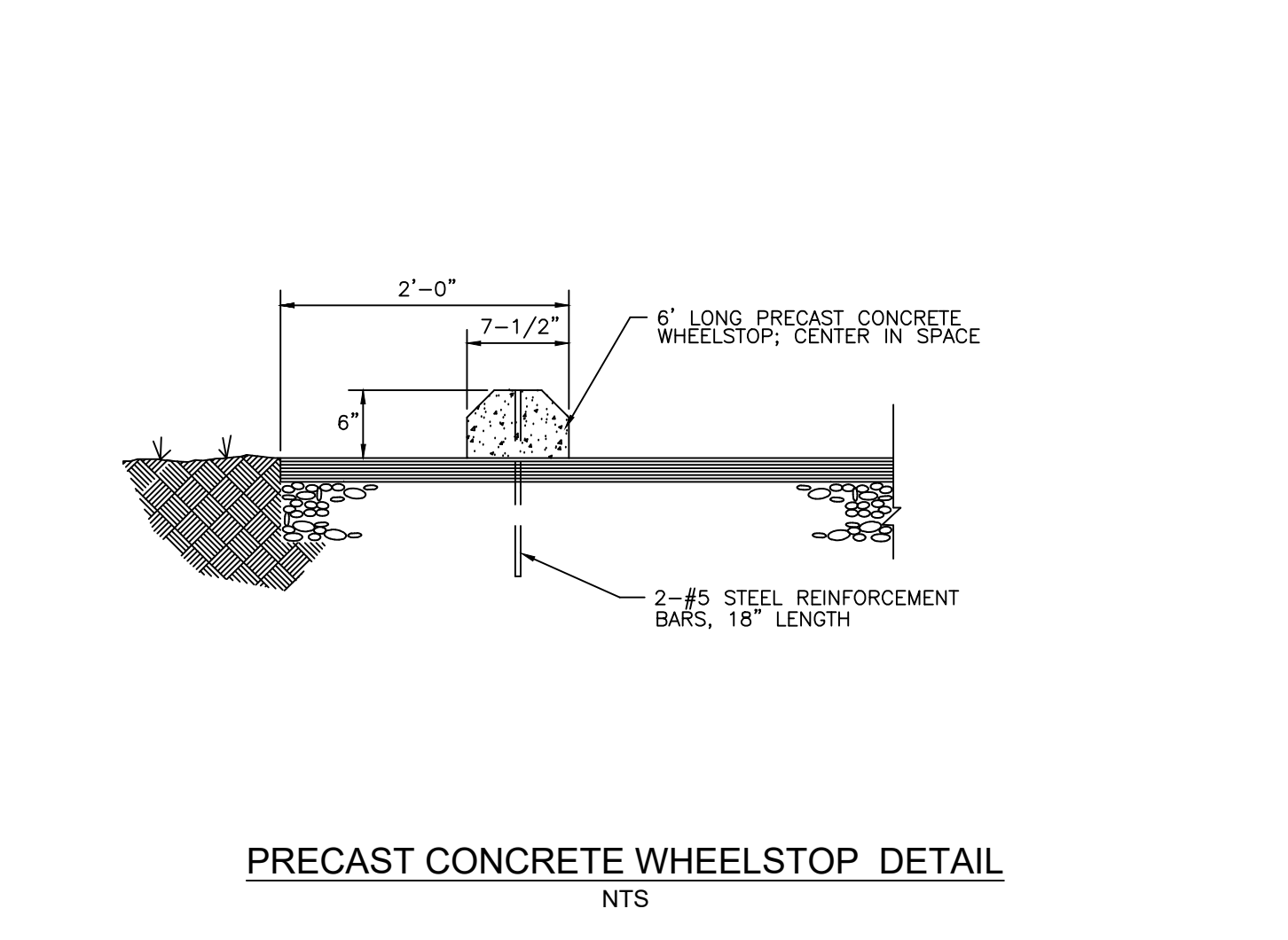
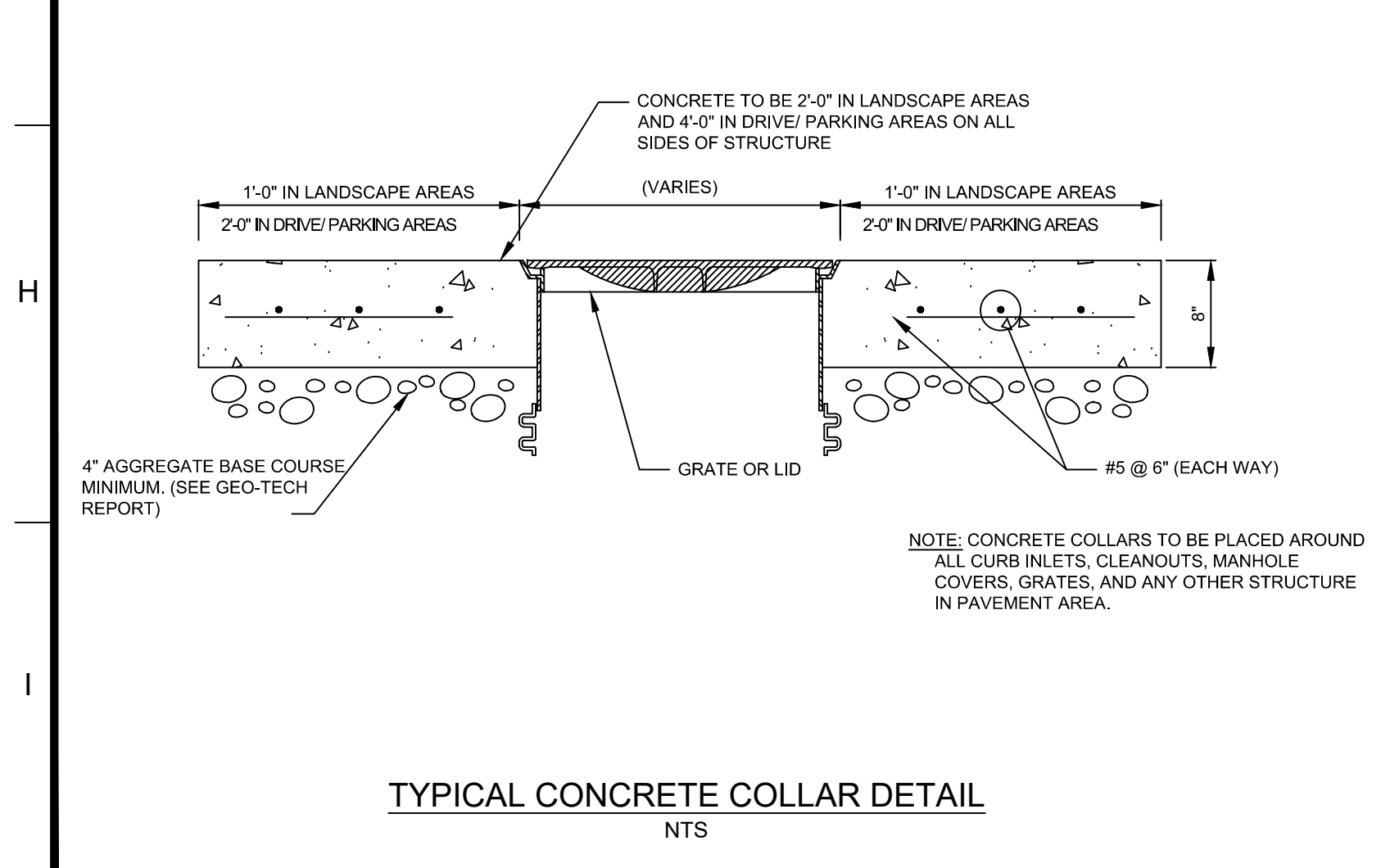
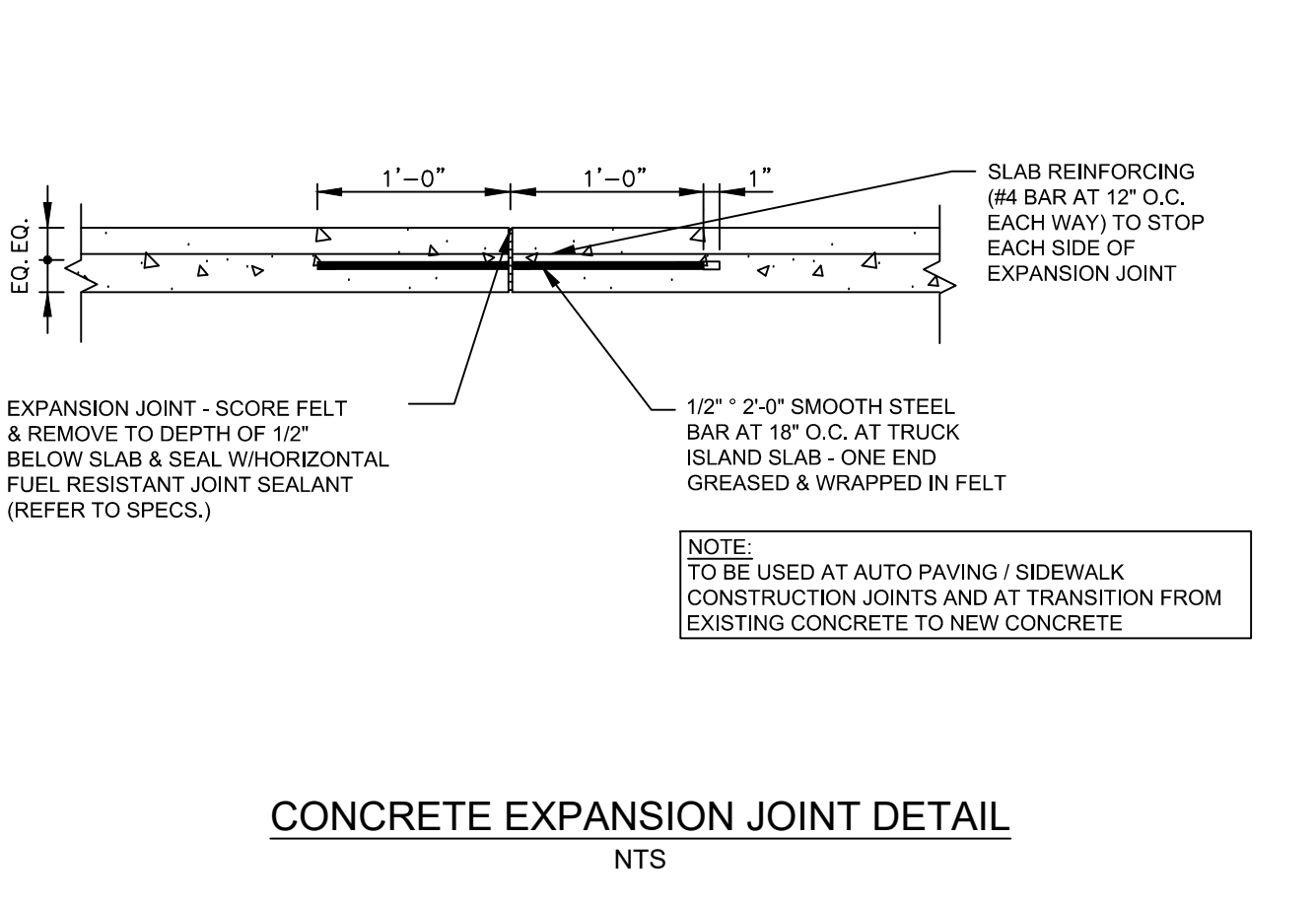
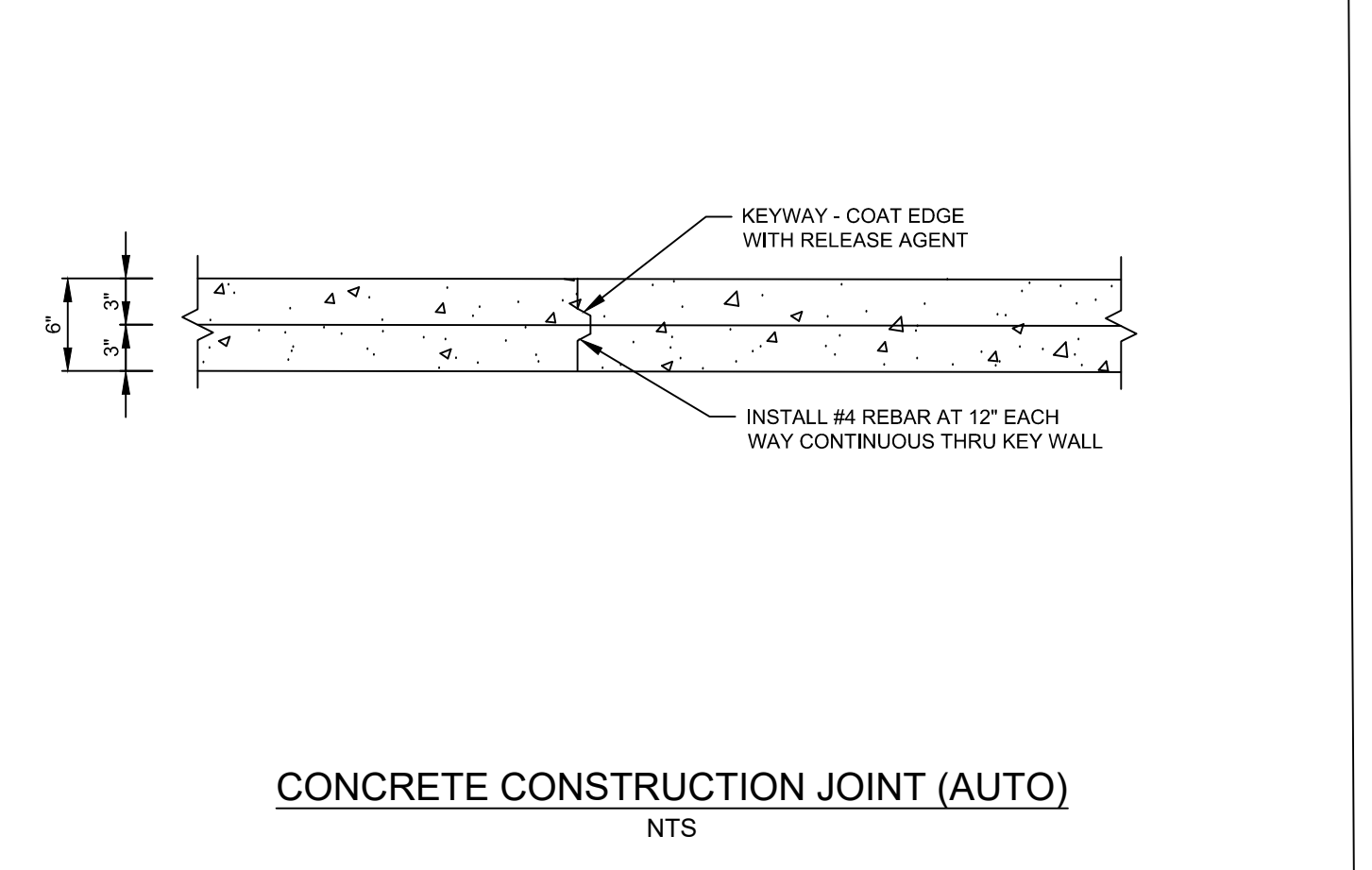
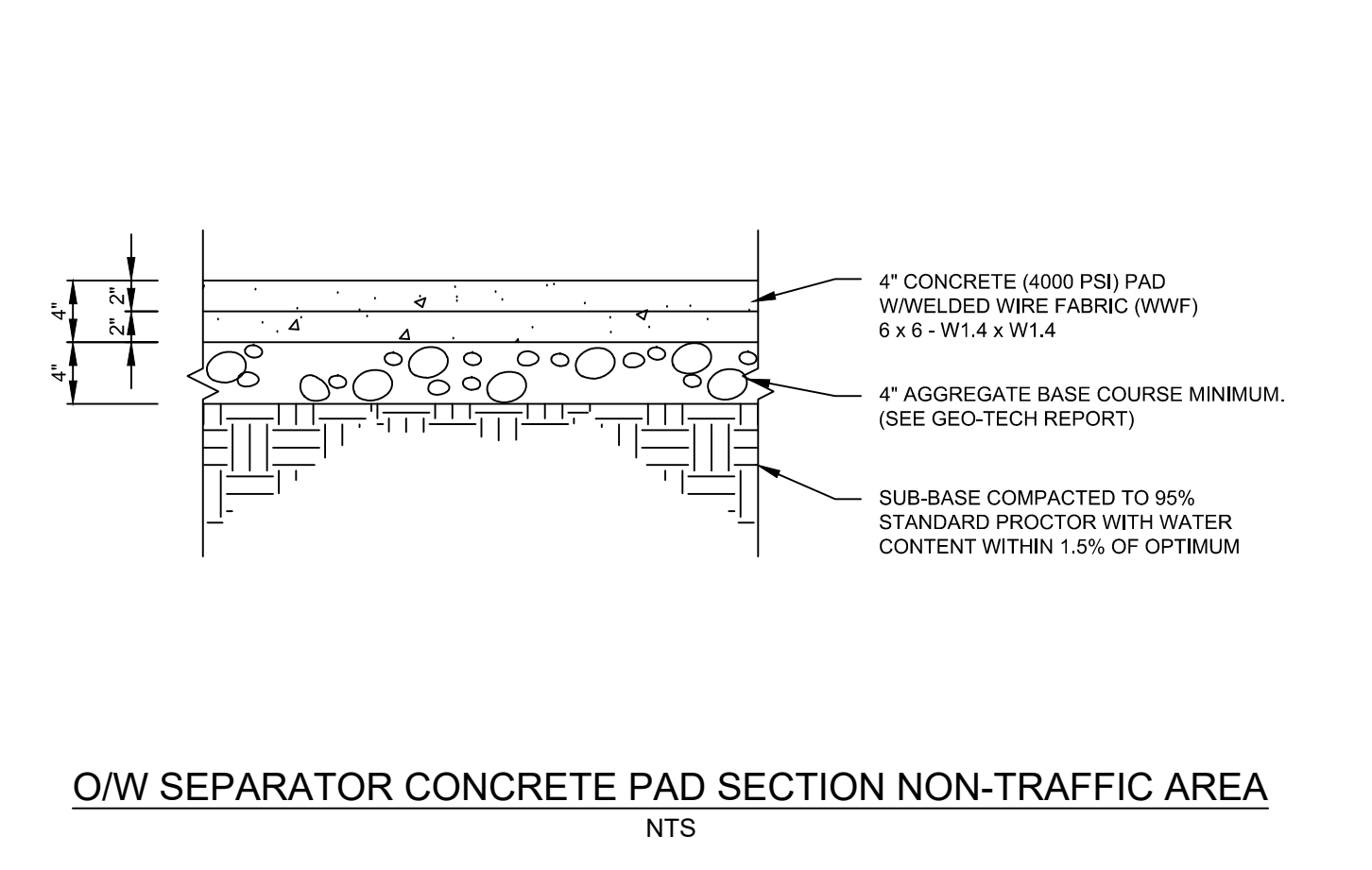
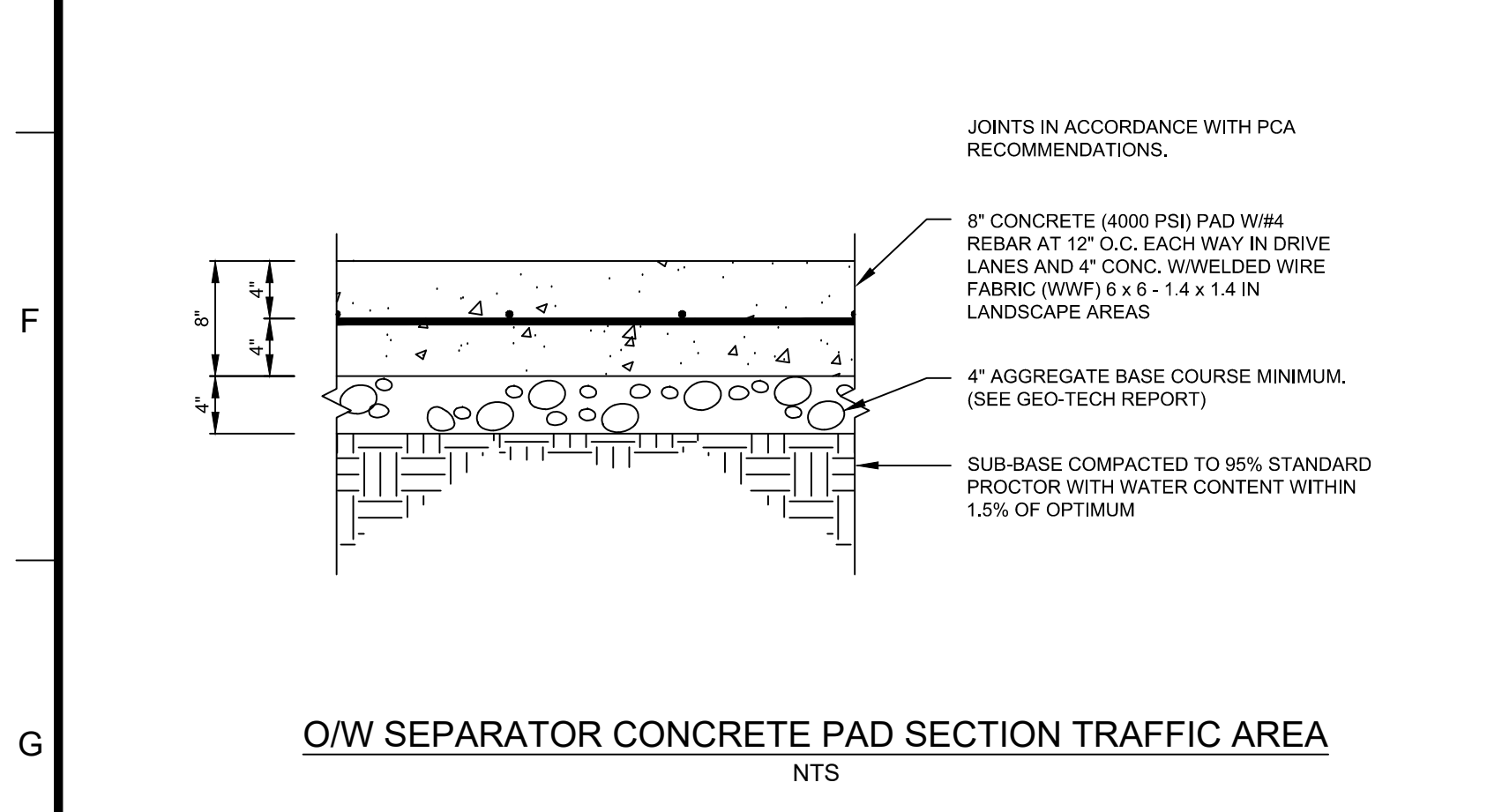
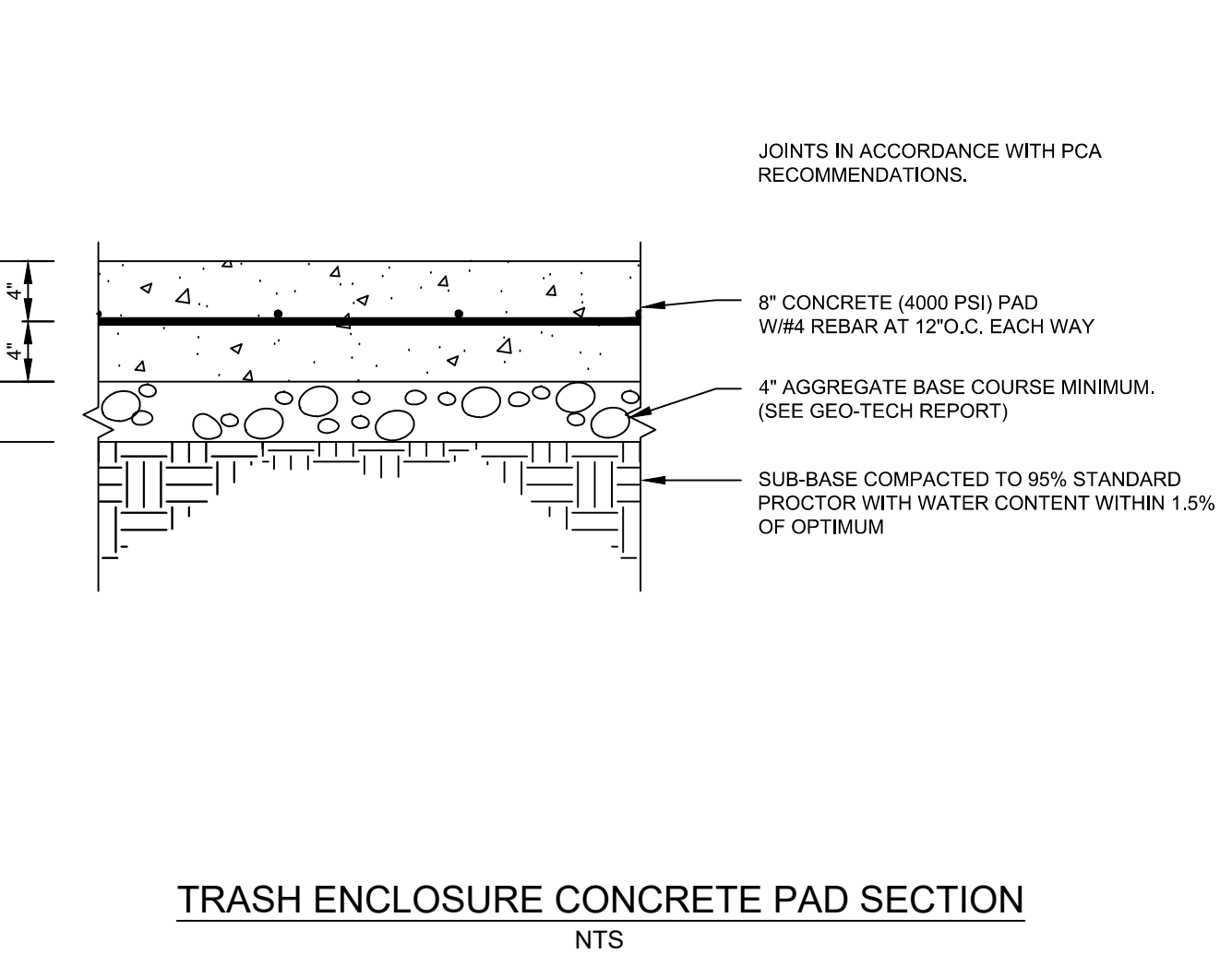
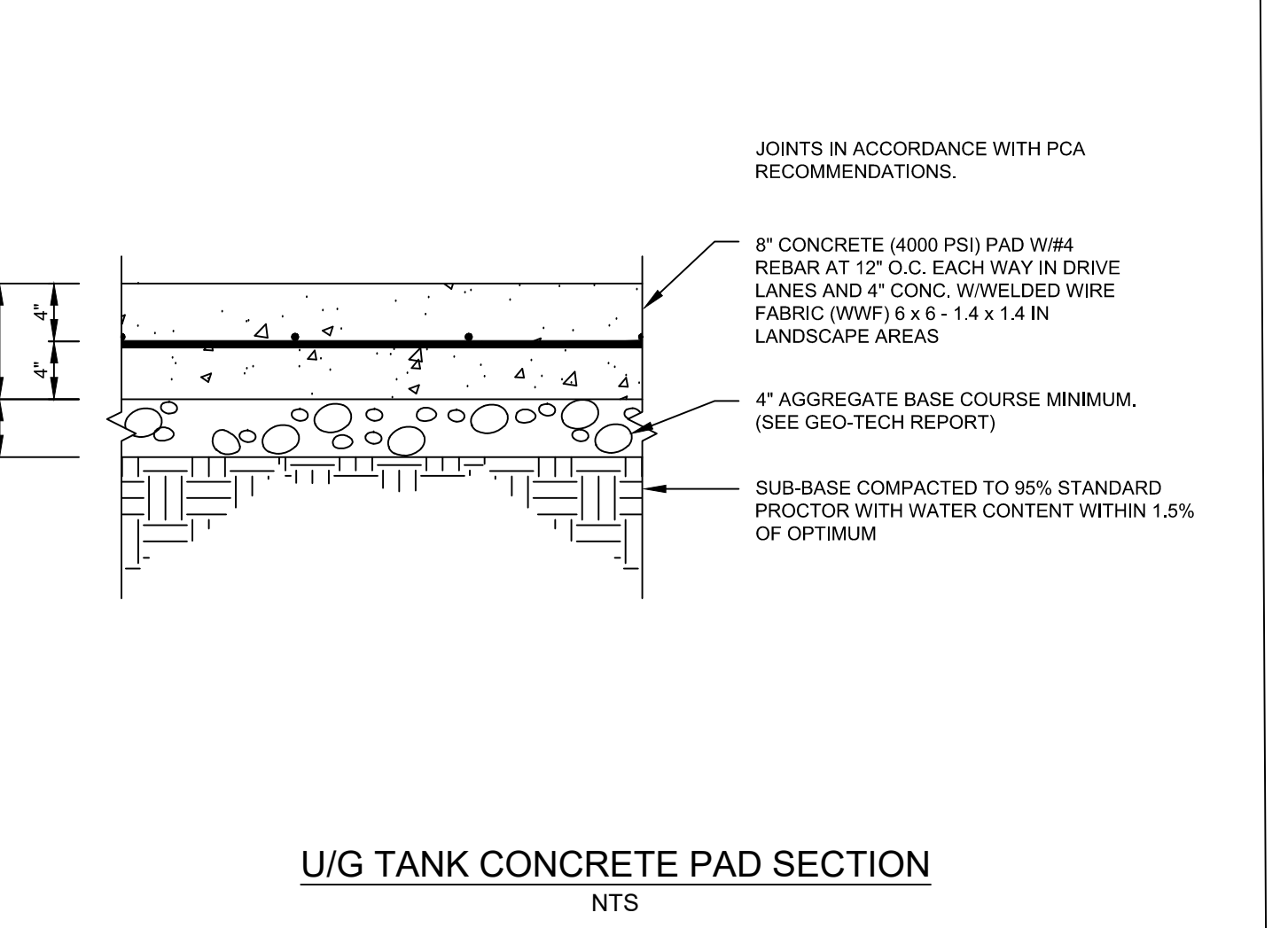
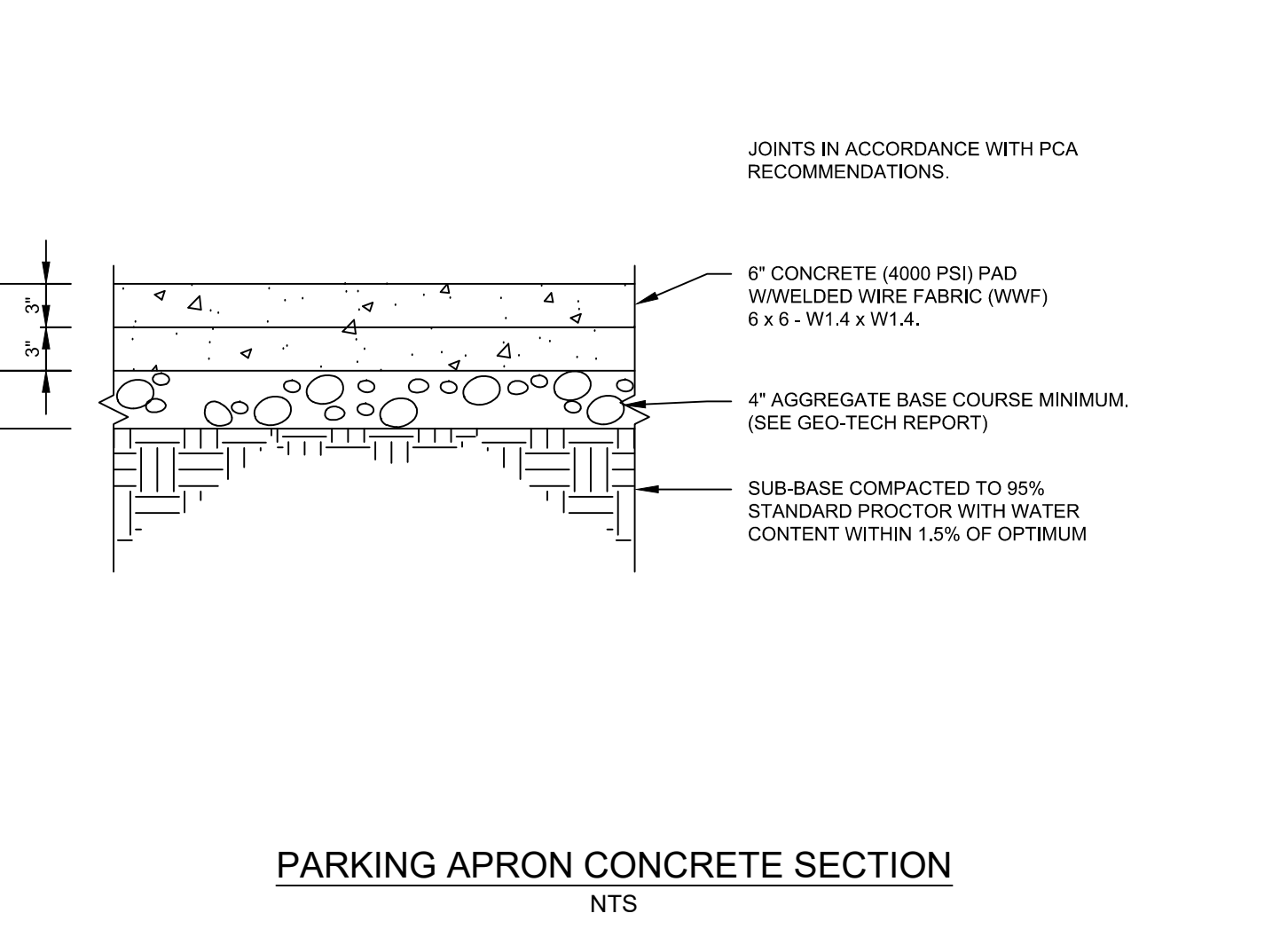
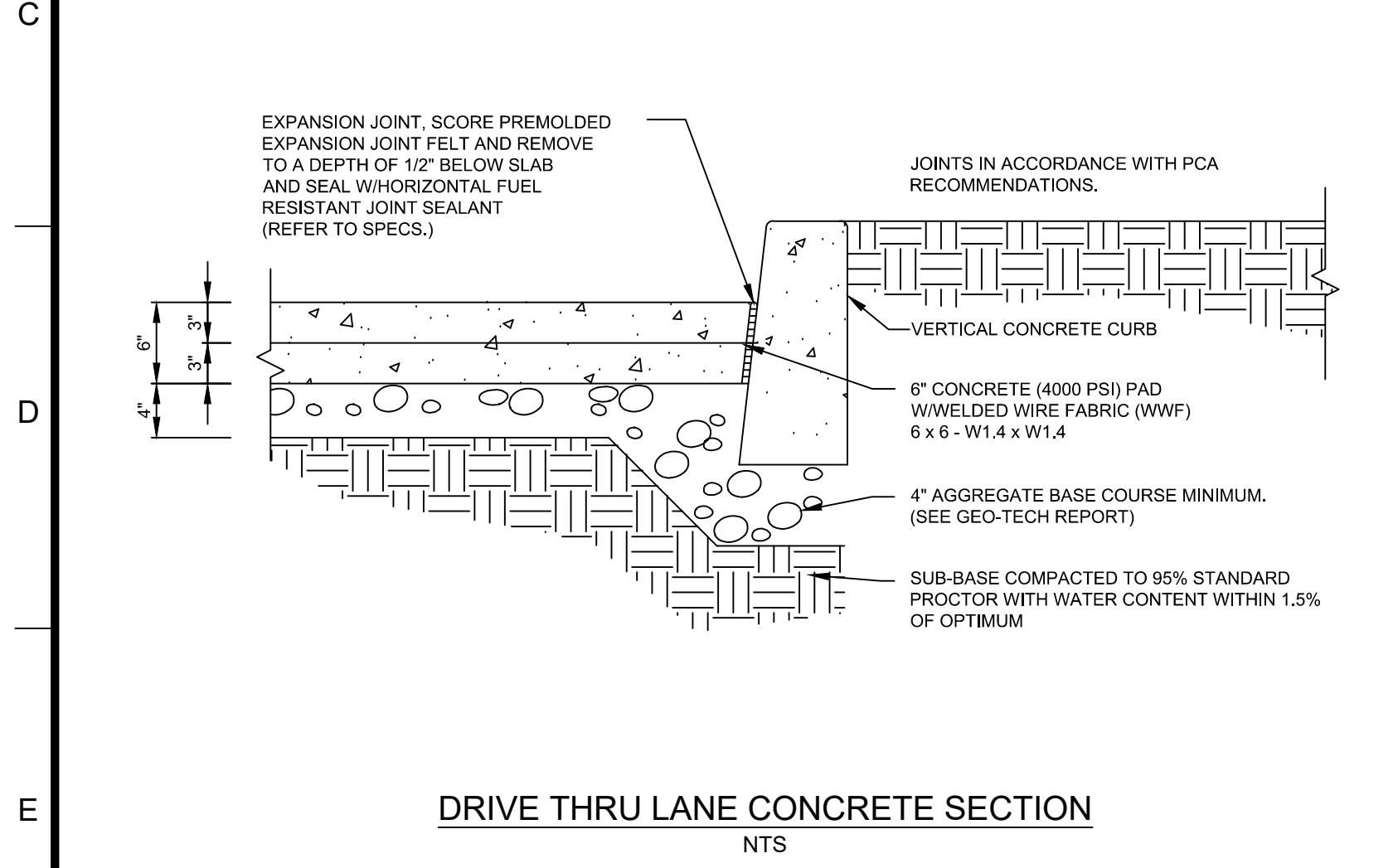
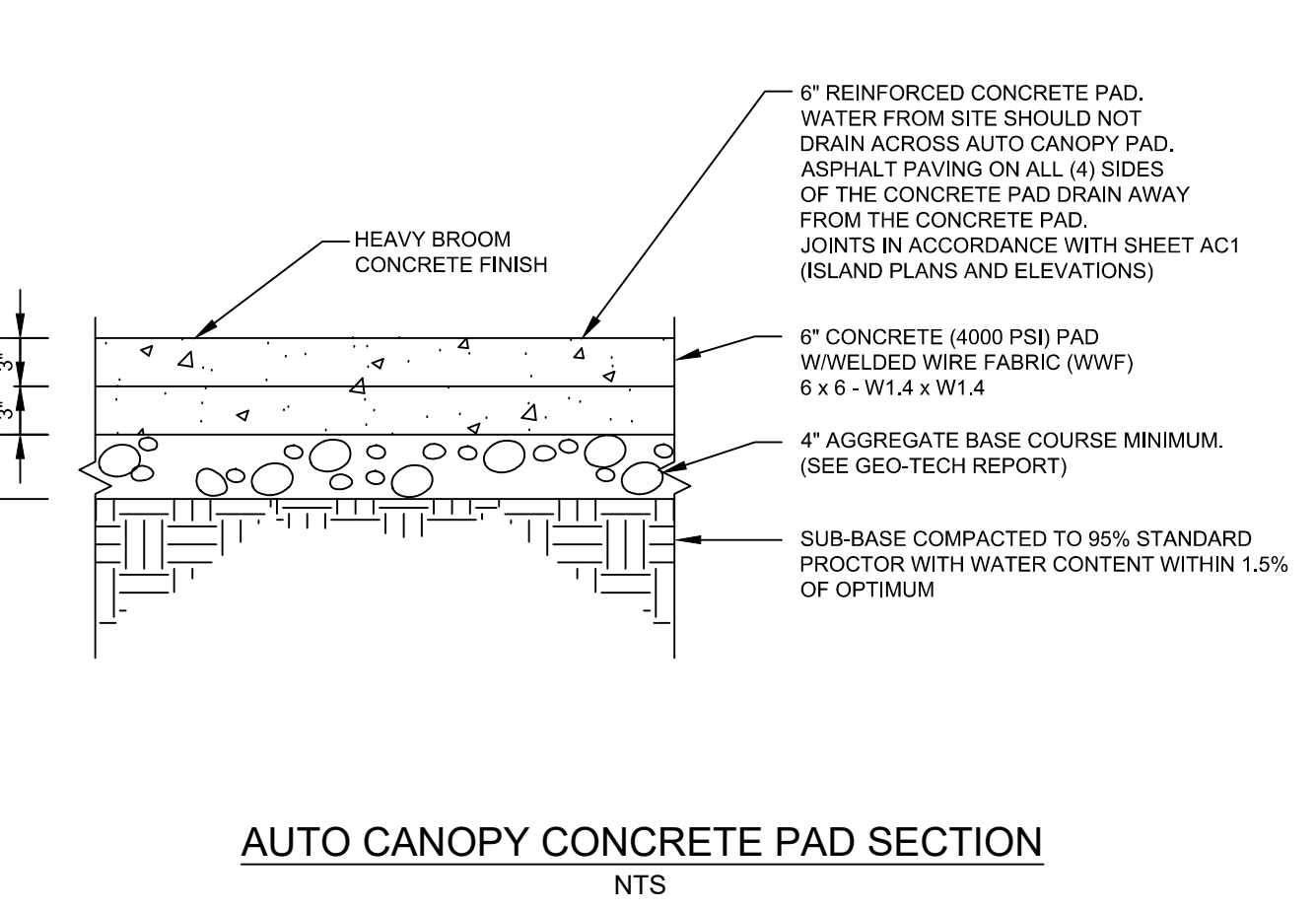
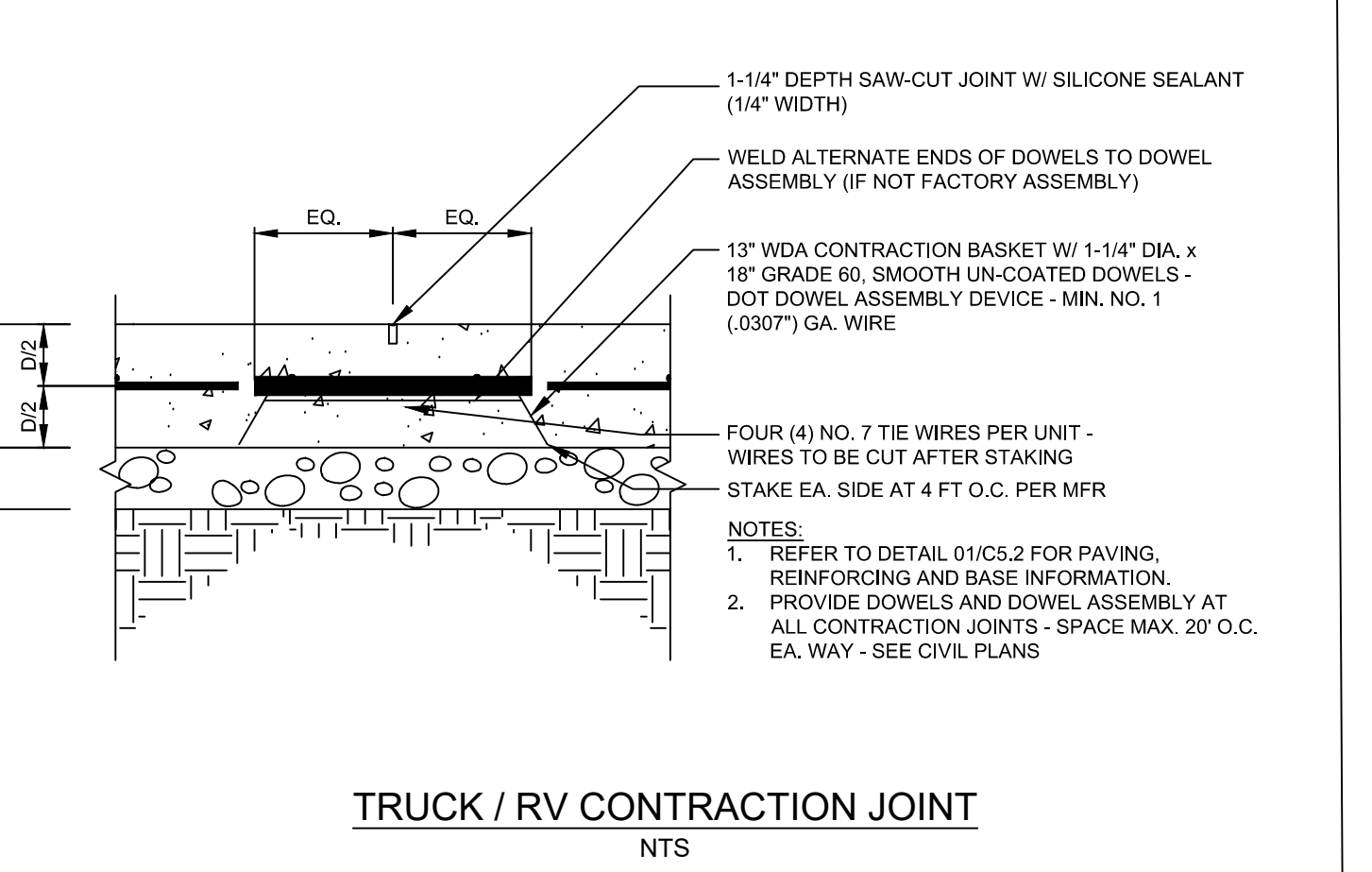
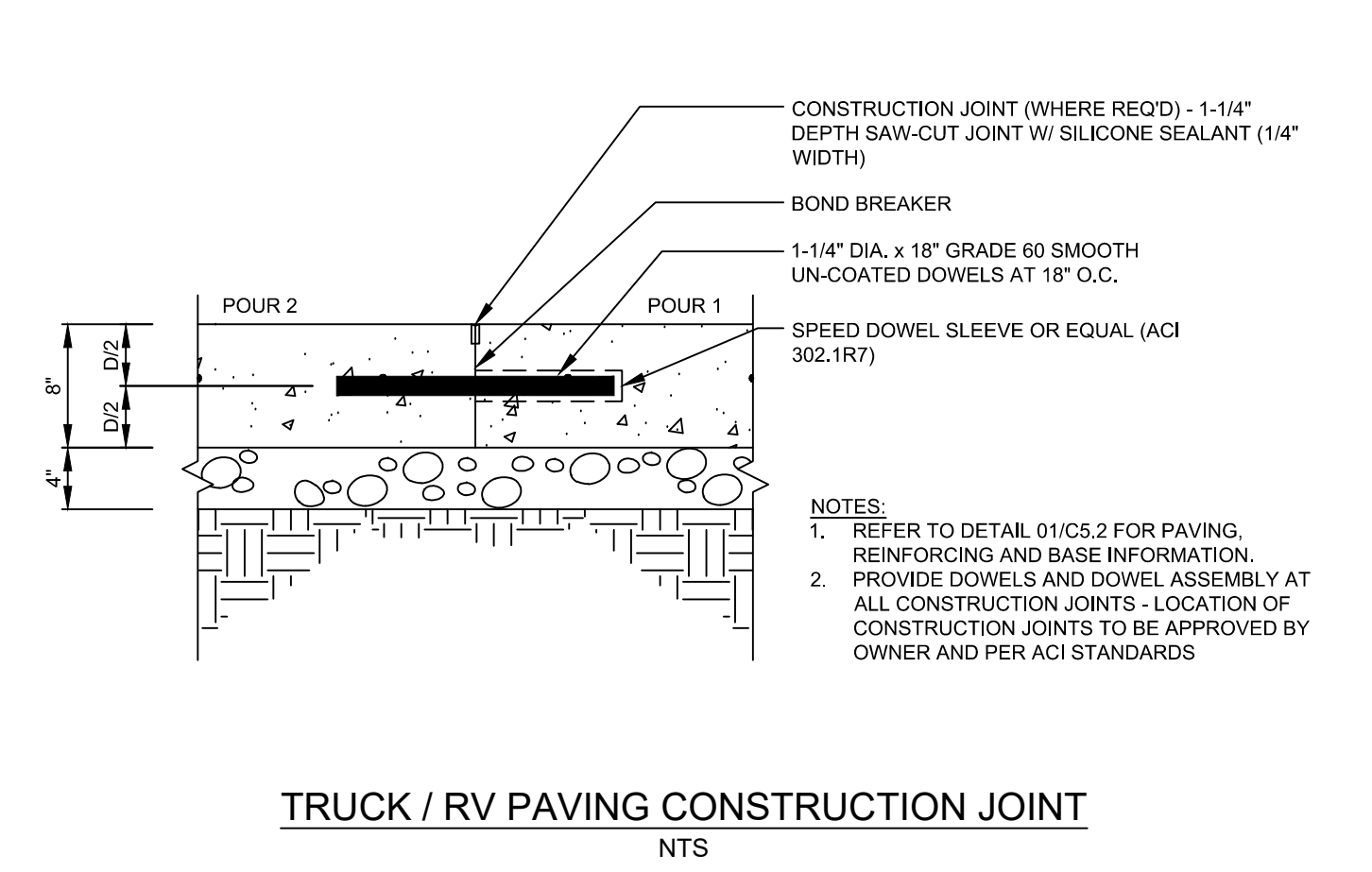
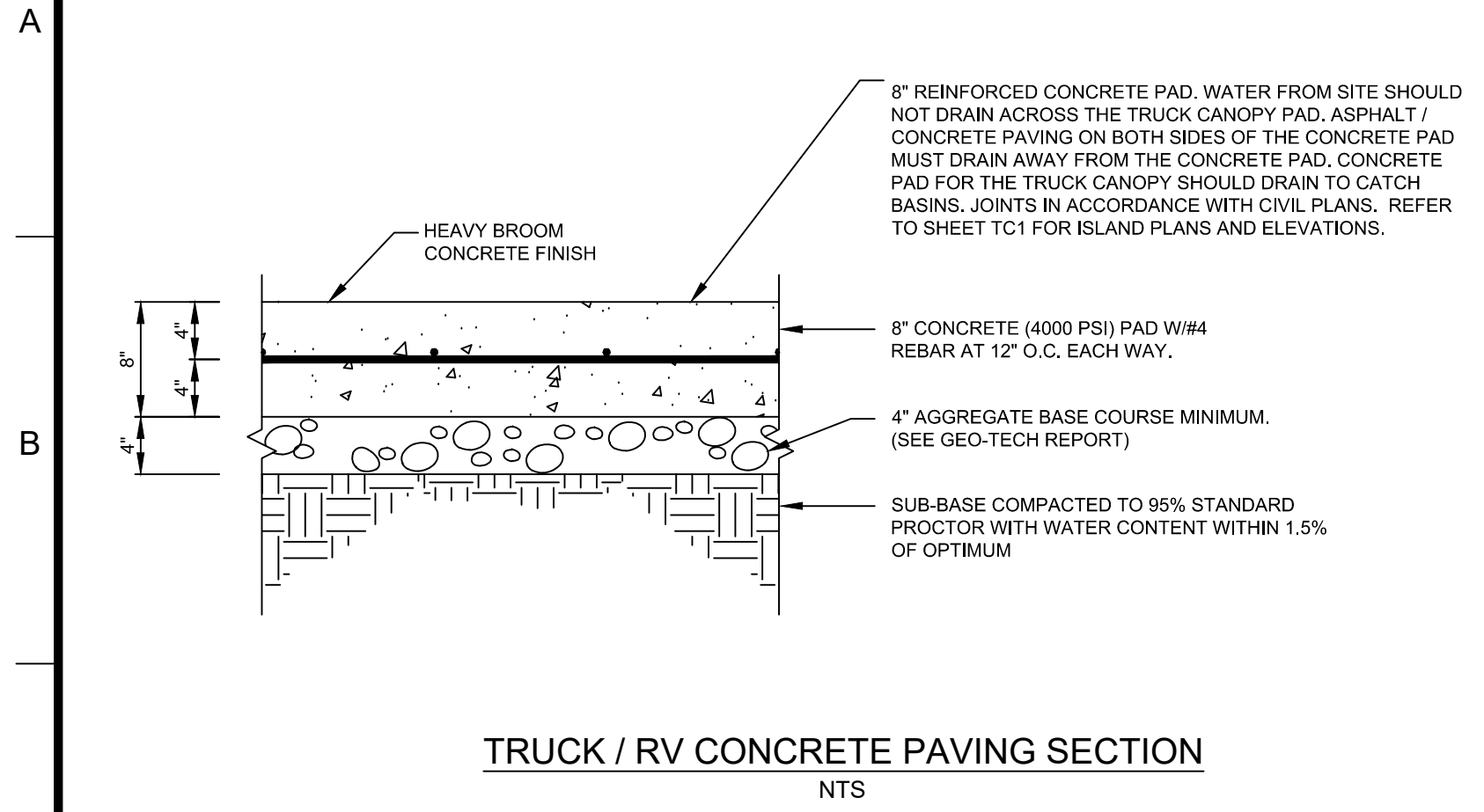
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566



SHEET TITLE
SITE PAVING
CONSTRUCTION
DETAILS

JOB #: PIL 28950
DATE: 02/10/20
SCALE: NTS
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C5.1



CORE STATES GROUP
9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCOSOE@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

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-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

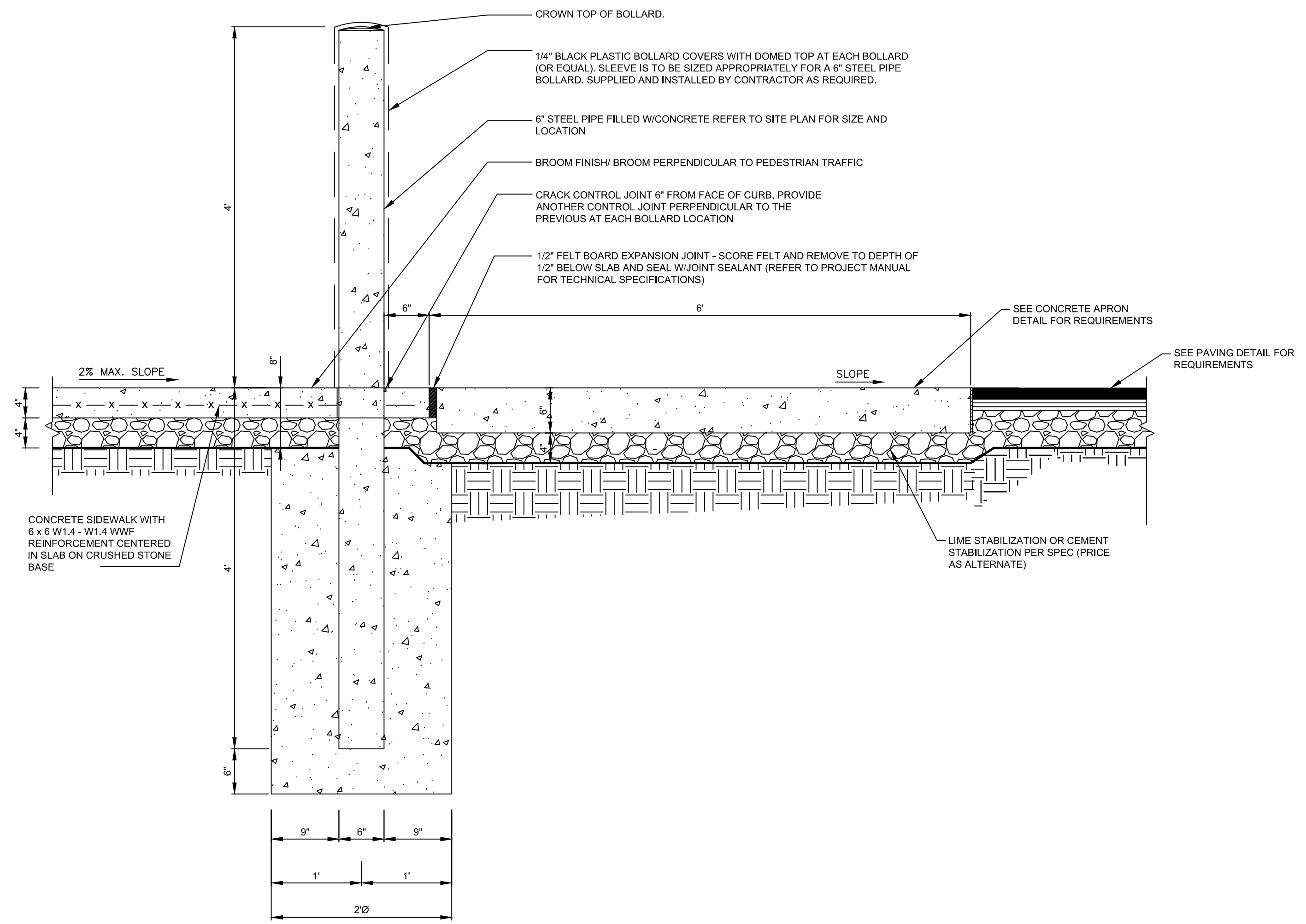
ALAN D. ROSCOE, P.E.
LICENSE # 40163

ALAN D. ROSCOE, P.E.
5/27/2020

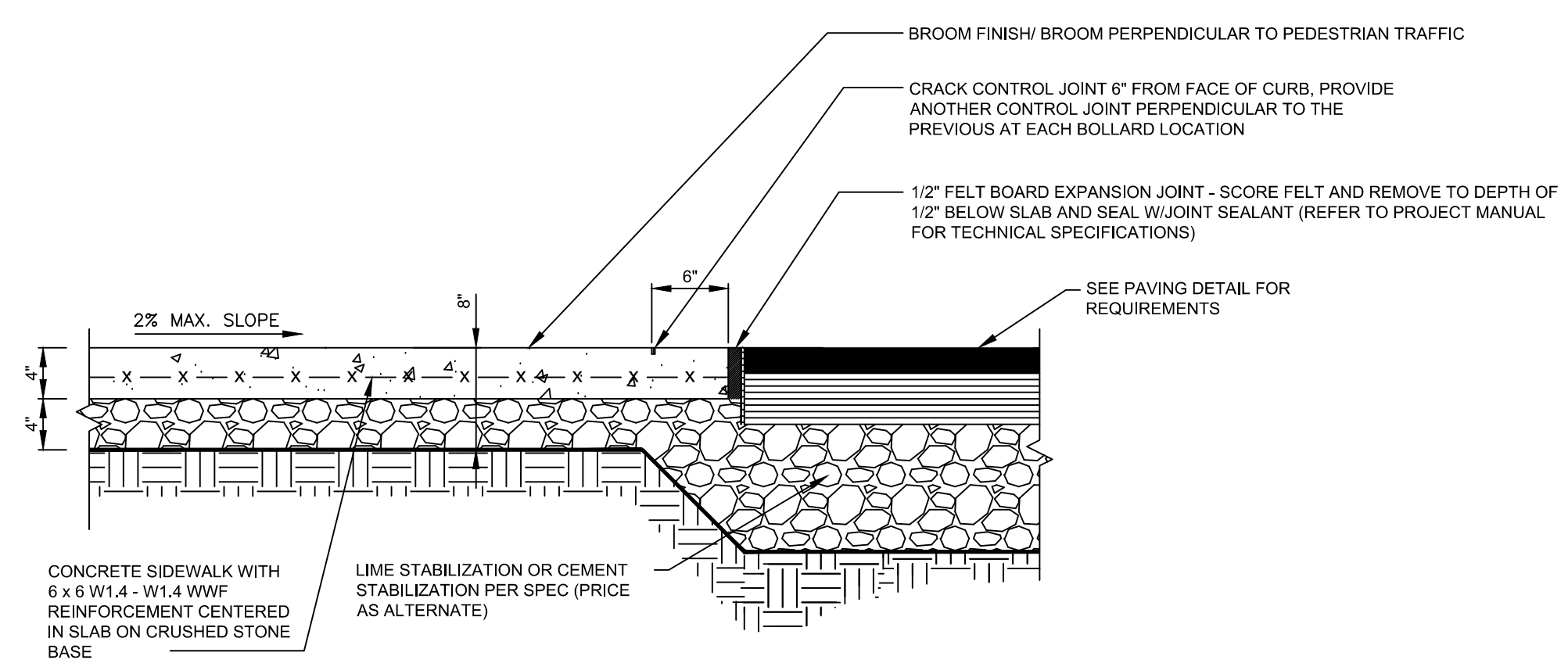
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CONSTRUCTION
DETAILS

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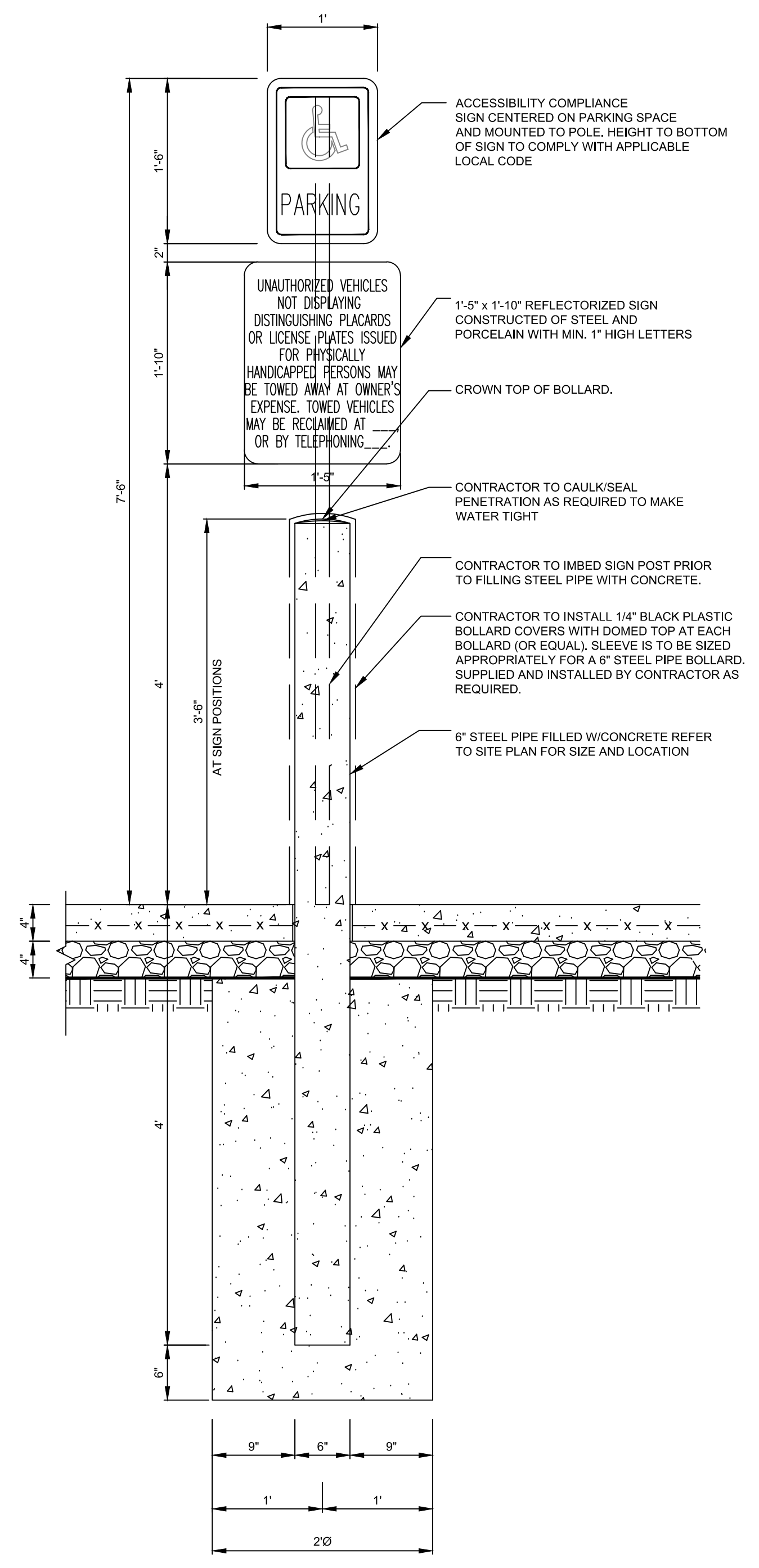
SHEET NO.
C5.2



AUTO FRONT PARKING/SIDEWALK SECTION NON-ADA PARKING
NTS



TRUCK SIDEWALK SECTION
NTS



ADA PARKING SIGN SECTION
NTS

CORE STATES GROUP
9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
AROSCOE@CORE-STATES.COM

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Pilot TRAVEL CENTERS

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SITE PLAN APPROVAL

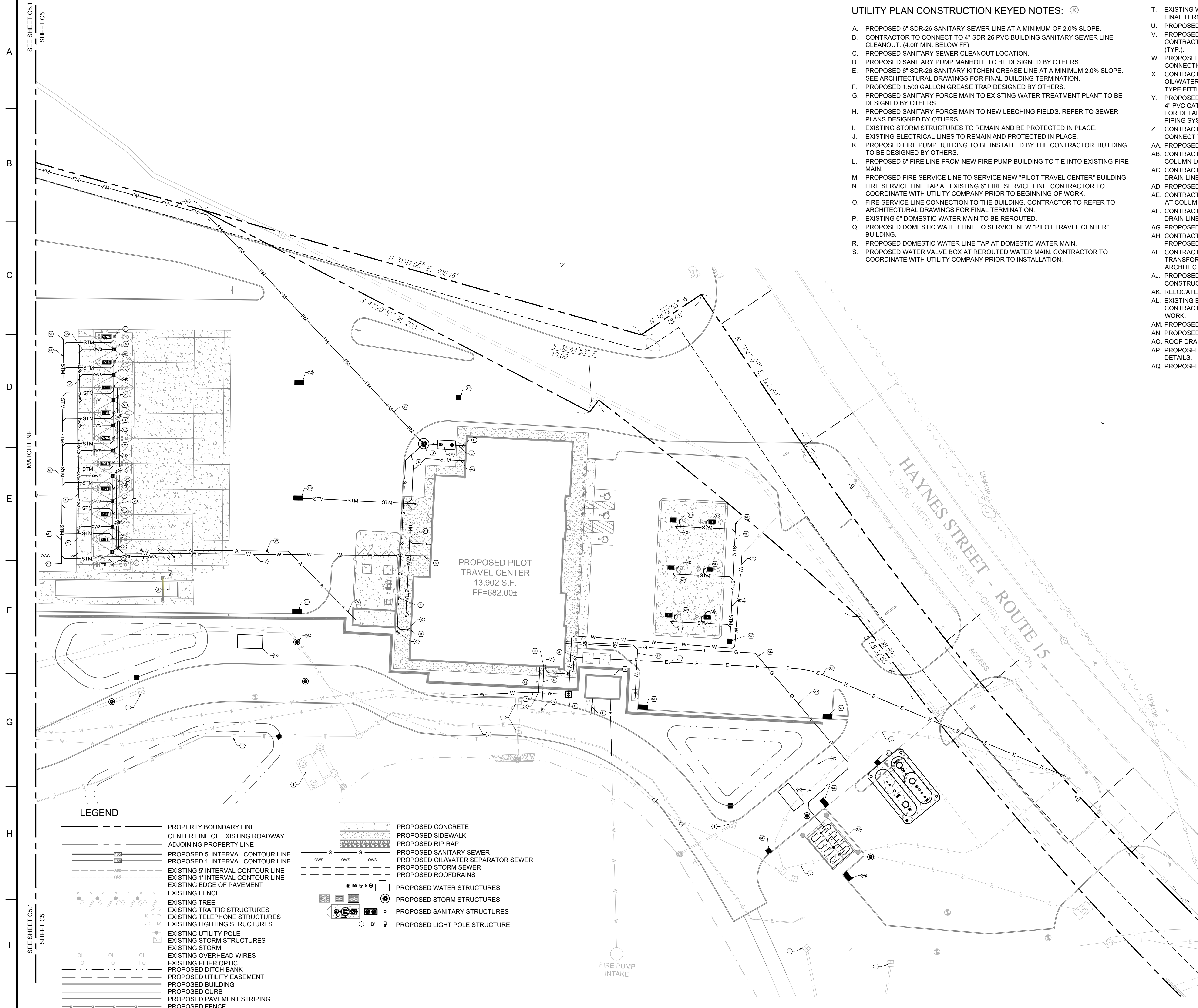
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
CONSTRUCTION DETAILS

JOB #: PIL 28950
DATE: 02/10/20
SCALE: NTS
DRAWN BY: MP
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SHEET NO.
C5.3



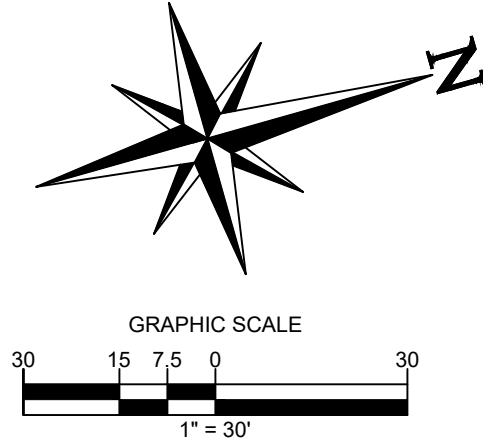
UTILITY PLAN CONSTRUCTION KEYED NOTES: (X)

- A. PROPOSED 6" SDR-26 SANITARY SEWER LINE AT A MINIMUM OF 2.0% SLOPE.
- B. CONTRACTOR TO CONNECT TO 4" SDR-26 PVC BUILDING SANITARY SEWER LINE CLEANOUT. (4.0' MIN. BELOW FF)
- C. PROPOSED SANITARY SEWER CLEANOUT LOCATION.
- D. PROPOSED SANITARY PUMP MANHOLE TO BE DESIGNED BY OTHERS.
- E. PROPOSED 6" SDR-26 SANITARY KITCHEN GREASE LINE AT A MINIMUM 2.0% SLOPE. SEE ARCHITECTURAL DRAWINGS FOR FINAL BUILDING TERMINATION.
- F. PROPOSED 1,500 GALLON GREASE TRAP DESIGNED BY OTHERS.
- G. PROPOSED SANITARY FORCE MAIN TO EXISTING WATER TREATMENT PLANT TO BE DESIGNED BY OTHERS.
- H. PROPOSED SANITARY FORCE MAIN TO NEW LEECHING FIELDS. REFER TO SEWER PLANS DESIGNED BY OTHERS.
- I. EXISTING STORM STRUCTURES TO REMAIN AND BE PROTECTED IN PLACE.
- J. EXISTING ELECTRICAL LINES TO REMAIN AND PROTECTED IN PLACE.
- K. PROPOSED FIRE PUMP BUILDING TO BE INSTALLED BY THE CONTRACTOR. BUILDING TO BE DESIGNED BY OTHERS.
- L. PROPOSED 6" FIRE LINE FROM NEW FIRE PUMP BUILDING TO TIE-INTO EXISTING FIRE MAIN.
- M. PROPOSED FIRE SERVICE LINE TO SERVICE NEW "PILOT TRAVEL CENTER" BUILDING.
- N. FIRE SERVICE LINE TAP AT EXISTING 6" FIRE SERVICE LINE. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO BEGINNING OF WORK.
- O. FIRE SERVICE LINE CONNECTION TO THE BUILDING. CONTRACTOR TO REFER TO ARCHITECTURAL DRAWINGS FOR FINAL TERMINATION.
- P. EXISTING 6" DOMESTIC WATER MAIN TO BE REROUTED.
- Q. PROPOSED DOMESTIC WATER LINE TO SERVICE NEW "PILOT TRAVEL CENTER" BUILDING.
- R. PROPOSED DOMESTIC WATER LINE TAP AT DOMESTIC WATER MAIN.
- S. PROPOSED WATER VALVE BOX AT REROUTED WATER MAIN. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO INSTALLATION.
- T. EXISTING WATER SERVICE LINE TO BE REROUTED. CONTRACTOR TO DETERMINE FINAL TERMINATION AND SIZE OF EXISTING LINE.
- U. PROPOSED WATER SERVICE LINE FOR AUTO/AIR VACUUM AND YARD HYDRANT.
- V. PROPOSED WATER SERVICE LINE FOR TRUCK FREEZE PROOF WATER STAND. CONTRACTOR TO PROVIDE CONNECTION AT EVERY OTHER TRUCK FUEL ISLAND (TYP.).
- W. PROPOSED AIR LINE FOR TRUCK AIR STANDS. CONTRACTOR TO PROVIDE CONNECTION AT EVERY OTHER TRUCK FUEL ISLAND (TYP.).
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- Y. PROPOSED 6" SCHEDULE 40 PVC MAIN OWS TRUNK LINE. CONTRACTOR TO CONNECT 4" PVC CATCH BASIN LINES TO OIL/WATER SEPARATOR INLET. SEE OWS UTILITY PLAN FOR DETAIL. NO "FERNCO" TYPE FITTINGS ALLOWED AT ANY PART OF THE OWS PIPING SYSTEM.
- Z. CONTRACTOR TO INSTALL 3" SCHEDULE 40 PVC FORM TRUCK SCALE PUMP TO CONNECT TO 6" PVC OWS TRUNK LINE.
- AA. PROPOSED OIL WATER SEPARATOR CLEANOUT.
- AB. CONTRACTOR TO INSTALL PVC PIPE FROM AUTO CANOPY ROOF DRAIN. TYPICAL AT COLUMN LOCATIONS. SEE ROOF DRAIN UTILITY PLAN FOR DETAIL.
- AC. CONTRACTOR TO INSTALL PVC TRUNK LINE TO CONNECT TO AUTO CANOPY ROOF DRAIN LINES. SEE ROOF DRAIN UTILITY PLAN FOR DETAIL.
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- AF. CONTRACTOR TO INSTALL PVC TRUNK LINE TO CONNECT TO TRUCK CANOPY ROOF DRAIN LINES.
- AG. PROPOSED STORM CATCH BASINS. SEE DRAINAGE PLAN FOR DETAIL.
- AH. CONTRACTOR TO INSTALL AND COORDINATE ELECTRICAL SERVICE LINE TO PROPOSED UTILITY TRANSFORMER.
- AI. CONTRACTOR TO INSTALL ELECTRICAL SERVICE LINE TO PROPOSED "PILOT" TRANSFORMER PAD. FINAL BUILDING TERMINATION TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS.
- AJ. PROPOSED OIL WATER SEPARATOR REFER TO OWS UTILITY PLAN AND CONSTRUCTION DETAILS.
- AK. RELOCATED EXISTING ELECTRICAL TRANSFORMER FOR SEWER TREATMENT PLANT.
- AL. EXISTING ELECTRICAL CONDUIT RELOCATED FOR SEWER TREATMENT PLANT. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO THE BEGINNING OF WORK.
- AM. PROPOSED PROPANE TANK FARM TO BE DESIGNED BY OTHERS.
- AN. PROPOSED GAS SERVICE FROM PROPANE TANK FARM TO NEW "PILOT" BUILDING.
- AO. ROOF DRAIN CONNECTION TO NEW "PILOT" BUILDING.
- AP. PROPOSED 5,000 GALLON OIL WATER SEPARATOR. REFER TO CONSTRUCTION DETAILS.
- AQ. PROPOSED 5" DIAM. DIVERSION MANHOLE.

SEE SHEET CS.1 SHEET CS
MATCH LINE
SEE SHEET CS.1 SHEET CS

LEGEND

- PROPERTY BOUNDARY LINE
- CENTER LINE OF EXISTING ROADWAY
- ADJOINING PROPERTY LINE
- PROPOSED 5' INTERVAL CONTOUR LINE
- PROPOSED 1' INTERVAL CONTOUR LINE
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING TREE
- EXISTING TRAFFIC STRUCTURES
- EXISTING TELEPHONE STRUCTURES
- EXISTING LIGHTING STRUCTURES
- EXISTING UTILITY POLE
- EXISTING STORM STRUCTURES
- EXISTING STORM
- EXISTING OVERHEAD WIRES
- EXISTING FIBER OPTIC
- PROPOSED DITCH BANK
- PROPOSED UTILITY EASEMENT
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED PAVEMENT STRIPING
- PROPOSED FENCE
- PROPOSED CONCRETE
- PROPOSED SIDEWALK
- PROPOSED RIP RAP
- PROPOSED SANITARY SEWER
- PROPOSED OIL/WATER SEPARATOR SEWER
- PROPOSED STORM SEWER
- PROPOSED ROOFDRAINS
- PROPOSED WATER STRUCTURES
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED LIGHT POLE STRUCTURE



ALERT TO CONTRACTOR:
PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

CORE STATES GROUP
9 GALEN STREET, SUITE 117
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Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

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REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

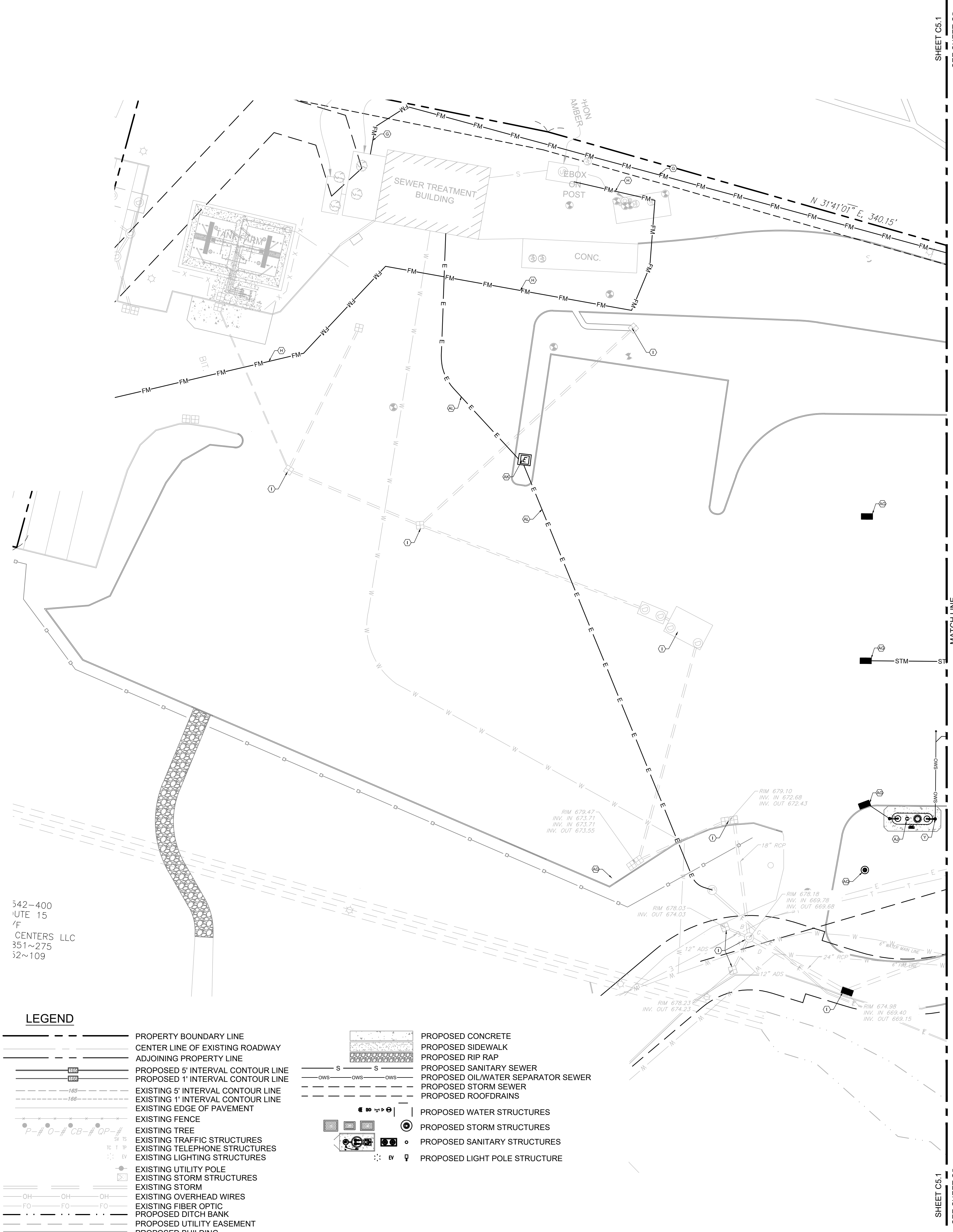
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE
No. 40163
REGISTERED PROFESSIONAL ENGINEER
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
OVERALL UTILITY PLAN

JOB #:	PIL-28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C6.0



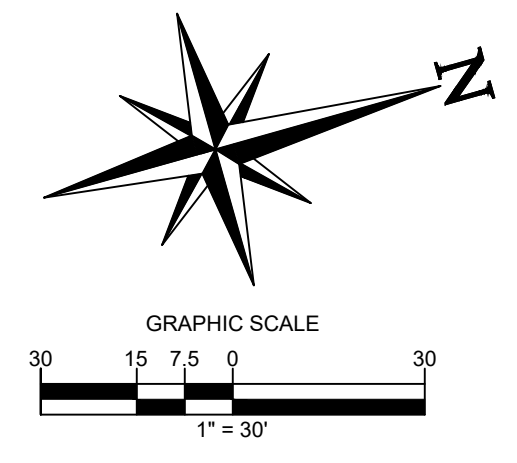
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- AO. ROOF DRAIN CONNECTION TO NEW "PILOT" BUILDING.
- AP. PROPOSED 5,000 GALLON OIL WATER SEPARATOR. REFER TO CONSTRUCTION DETAILS.
- AQ. PROPOSED 5' DIA. DIVERSION MANHOLE.

342-400
UTE 15
/F
CENTERS LLC
351~275
52~109

LEGEND

	PROPERTY BOUNDARY LINE		PROPOSED CONCRETE
	CENTER LINE OF EXISTING ROADWAY		PROPOSED SIDEWALK
	ADJOINING PROPERTY LINE		PROPOSED RIP RAP
	PROPOSED 5' INTERVAL CONTOUR LINE		PROPOSED SANITARY SEWER
	PROPOSED 1' INTERVAL CONTOUR LINE		PROPOSED OIL/WATER SEPARATOR SEWER
	EXISTING 5' INTERVAL CONTOUR LINE		PROPOSED STORM SEWER
	EXISTING 1' INTERVAL CONTOUR LINE		PROPOSED ROOFDRAINS
	EXISTING EDGE OF PAVEMENT		PROPOSED WATER STRUCTURES
	EXISTING FENCE		PROPOSED STORM STRUCTURES
	EXISTING TREE		PROPOSED SANITARY STRUCTURES
	EXISTING TRAFFIC STRUCTURES		PROPOSED LIGHT POLE STRUCTURE
	EXISTING TELEPHONE STRUCTURES		
	EXISTING LIGHTING STRUCTURES		
	EXISTING UTILITY POLE		
	EXISTING STORM STRUCTURES		
	EXISTING STORM		
	EXISTING OVERHEAD WIRES		
	EXISTING FIBER OPTIC		
	PROPOSED DITCH BANK		
	PROPOSED UTILITY EASEMENT		
	PROPOSED BUILDING		
	PROPOSED CURB		
	PROPOSED PAVEMENT STRIPING		



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CORE STATES GROUP

9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCOSOE@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

811
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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

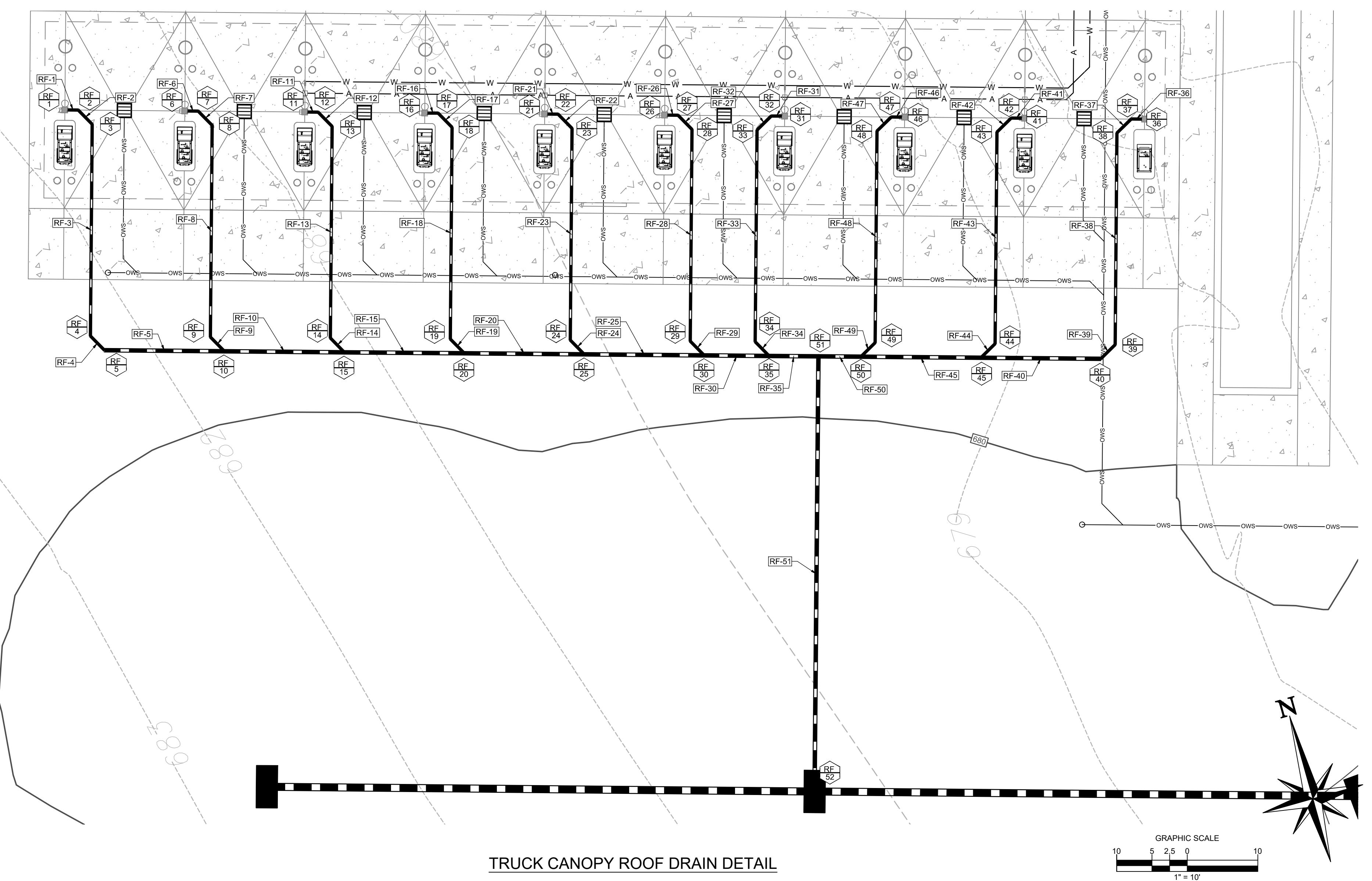
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
OVERALL UTILITY
PLAN

JOB #:	PIL28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C6.1



TRUCK CANOPY ROOF DRAIN DETAIL

ROOF DRAIN STRUCTURE TABLE									
STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
1	ROOF DRAIN	680.11			RF-1	677.28	1.48'	4" PVC	1.00%
2	45° BEND	680.08	RF-1	677.27'	RF-2	677.27'	2.83'	4" PVC	1.00%
3	CLEANOUT	680.07	RF-2	677.24'	RF-3	677.24'	30.00'	4" PVC	1.00%
4	45° BEND	680.11	RF-3	676.94'	RF-4	676.94'	2.83'	4" PVC	1.00%
5	CLEANOUT	680.09	RF-4	676.91'	RF-5	676.91'	17.00'	6" PVC	1.00%
6	ROOF DRAIN	680.11			RF-6	677.28	1.48'	4" PVC	1.00%
7	45° BEND	680.08	RF-6	677.27'	RF-7	677.27'	2.83'	4" PVC	1.00%
8	CLEANOUT	680.07	RF-7	677.24'	RF-8	677.24'	30.00'	4" PVC	1.00%
9	45° BEND	680.08	RF-8	676.94'	RF-9	676.94'	2.83'	4" PVC	7.02%
10	WYE BEND	680.06	RF-9	676.74'	RF-10	676.74'	17.00'	6" PVC	1.00%
11	ROOF DRAIN	680.11			RF-11	677.28	1.48'	4" PVC	1.00%
12	45° BEND	680.08	RF-11	677.27'	RF-12	677.27'	2.83'	4" PVC	1.00%
13	CLEANOUT	680.07	RF-12	677.24'	RF-13	677.24'	30.00'	4" PVC	1.00%
14	45° BEND	680.07	RF-13	676.94'	RF-14	676.94'	2.83'	4" PVC	13.03%
15	WYE BEND	680.06	RF-14	676.57'	RF-15	676.57'	17.00'	6" PVC	1.00%
16	ROOF DRAIN	680.11			RF-16	677.28	1.48'	4" PVC	1.00%
17	45° BEND	680.08	RF-16	677.27'	RF-17	677.27'	2.83'	4" PVC	1.00%
18	CLEANOUT	680.07	RF-17	677.24'	RF-18	677.24'	30.00'	4" PVC	1.00%
19	45° BEND	680.08	RF-18	676.94'	RF-19	676.94'	2.83'	4" PVC	19.04%
20	WYE BEND	680.07	RF-19	676.40'	RF-20	676.40'	17.00'	6" PVC	1.00%
21	ROOF DRAIN	680.11			RF-21	677.28	1.48'	4" PVC	1.00%
22	45° BEND	680.08	RF-21	677.27'	RF-22	677.27'	2.83'	4" PVC	1.00%
23	CLEANOUT	680.07	RF-22	677.24'	RF-23	677.24'	30.00'	4" PVC	1.00%
24	45° BEND	680.09	RF-23	676.94'	RF-24	676.94'	2.83'	4" PVC	25.01%
25	WYE BEND	680.07	RF-24	676.23'	RF-25	676.23'	17.00'	6" PVC	1.00%
26	ROOF DRAIN	680.11			RF-26	677.28	1.48'	4" PVC	1.00%
27	45° BEND	680.08	RF-26	677.27'	RF-27	677.27'	2.83'	4" PVC	1.00%
28	CLEANOUT	680.07	RF-27	677.24'	RF-28	677.24'	30.00'	4" PVC	1.00%
29	45° BEND	680.08	RF-28	676.94'	RF-29	676.94'	2.83'	4" PVC	30.95%
30	WYE BEND	680.07	RF-29	676.06'	RF-30	676.06'	9.20'	6" PVC	1.00%
31	ROOF DRAIN	680.11			RF-31	677.28	1.48'	4" PVC	1.00%
32	45° BEND	680.08	RF-31	677.27'	RF-32	677.27'	2.83'	4" PVC	1.00%
33	CLEANOUT	680.07	RF-32	677.24'	RF-33	677.24'	30.00'	4" PVC	1.00%
34	45° BEND	680.08	RF-33	676.94'	RF-34	676.94'	2.83'	4" PVC	34.29%
35	WYE BEND	680.06	RF-34	675.97'	RF-35	675.97'	6.97'	6" PVC	1.00%
36	ROOF DRAIN	680.11			RF-36	677.28	1.48'	4" PVC	1.00%
37	45° BEND	680.09	RF-36	677.27'	RF-37	677.27'	2.83'	4" PVC	1.00%
38	CLEANOUT	680.07	RF-37	677.24'	RF-38	677.24'	30.00'	4" PVC	1.00%
39	45° BEND	680.09	RF-38	676.94'	RF-39	676.94'	2.84'	4" PVC	22.52%
40	CLEANOUT	680.08	RF-39	676.30'	RF-40	676.30'	17.00'	6" PVC	1.00%
41	ROOF DRAIN	680.11			RF-41	677.28	1.48'	4" PVC	1.00%
42	45° BEND	680.08	RF-41	677.27'	RF-42	677.27'	2.83'	4" PVC	1.00%
43	CLEANOUT	680.07	RF-42	677.24'	RF-43	677.24'	30.00'	4" PVC	1.00%
44	45° BEND	680.09	RF-43	676.94'	RF-44	676.94'	2.83'	4" PVC	28.64%
45	WYE BEND	680.08	RF-44	676.13'	RF-45	676.13'	17.00'	6" PVC	1.00%
46	ROOF DRAIN	680.11			RF-46	677.28	1.48'	4" PVC	1.00%
47	45° BEND	680.08	RF-46	677.27'	RF-47	677.27'	2.83'	4" PVC	1.00%
48	CLEANOUT	680.07	RF-47	677.24'	RF-48	677.24'	30.00'	4" PVC	1.00%
49	45° BEND	680.08	RF-48	676.94'	RF-49	676.94'	2.83'	4" PVC	34.65%
50	WYE BEND	680.06	RF-49	675.96'	RF-50	675.96'	6.03'	6" PVC	1.00%
51	TEE	680.06	RF-50	675.90'	RF-51	675.90'	61.66'	6" PVC	1.00%
52	PROPOSED CATCH BASIN	679.45	RF-51	675.28'					

LEGEND

- PROPERTY BOUNDARY LINE
- CENTER LINE OF EXISTING ROADWAY
- ADJOINING PROPERTY LINE
- PROPOSED 5' INTERVAL CONTOUR LINE
- PROPOSED 1' INTERVAL CONTOUR LINE
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING TREE
- EXISTING TRAFFIC STRUCTURES
- EXISTING TELEPHONE STRUCTURES
- EXISTING LIGHTING STRUCTURES
- EXISTING UTILITY POLE
- EXISTING STORM STRUCTURES
- EXISTING STORM
- EXISTING OVERHEAD WIRES
- EXISTING FIBER OPTIC
- PROPOSED DITCH BANK
- PROPOSED UTILITY EASEMENT
- PROPOSED BUILDING
- PROPOSED CURB
- PROPOSED PAVEMENT STRIPING
- PROPOSED CONCRETE
- PROPOSED SIDEWALK
- PROPOSED RIP RAP
- PROPOSED SANITARY SEWER
- PROPOSED OIL/WATER SEPARATOR SEWER
- PROPOSED STORM SEWER
- PROPOSED ROOFDRAINS
- PROPOSED WATER STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED LIGHT POLE STRUCTURE

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 WATER TOWN, MA 02472
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 ARCSO@CORE-STATES.COM

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 KNOXVILLE, TN 37909

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DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
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 STURBRIDGE, MA 01566

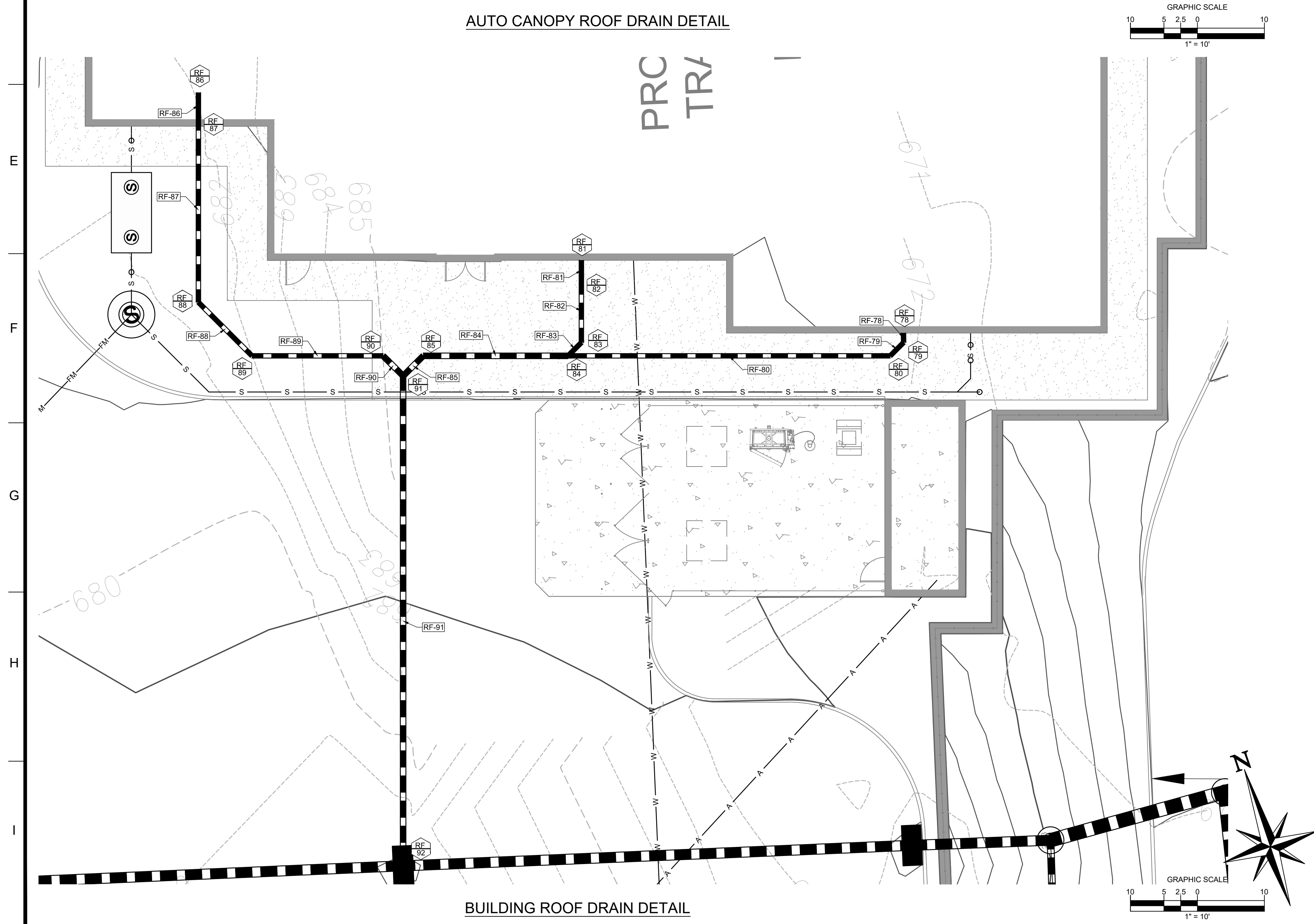
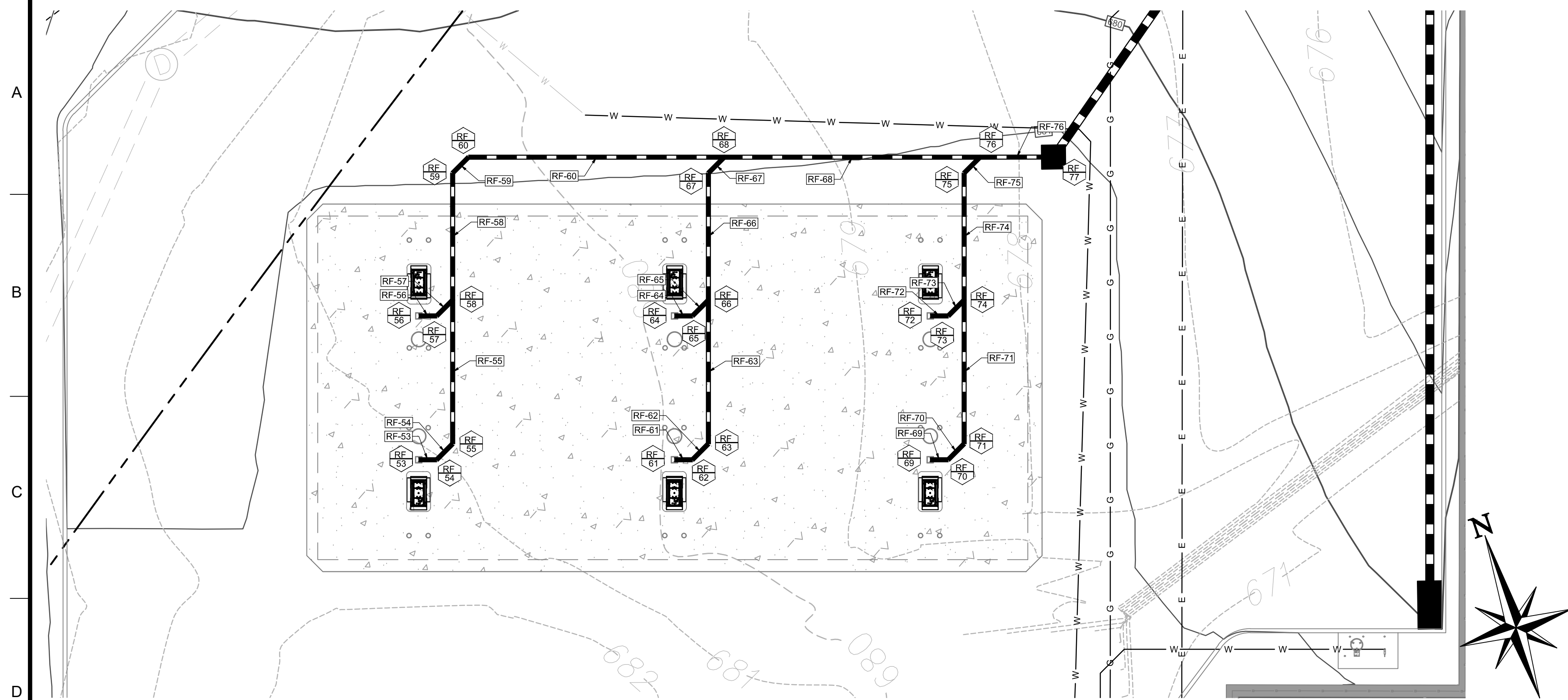
ENGINEER SEAL

 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 ROOF DRAIN
 UTILITY
 PLAN

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C6.2



ROOF DRAIN STRUCTURE TABLE									
STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
53	ROOF DRAIN	681.45			RF-53	678.50'	2.25'	6" PVC	1.00%
54	45° BEND	681.45	RF-53	678.48'	RF-54	678.48'	2.83'	6" PVC	1.00%
55	CLEANOUT	681.48	RF-54	678.45'	RF-55	678.45'	17.98'	6" PVC	1.00%
56	ROOF DRAIN	681.45			RF-56	678.50'	2.25'	6" PVC	1.00%
57	45° BEND	681.45	RF-56	678.48'	RF-57	678.48'	2.80'	6" PVC	7.42%
58	WYE BEND	681.42	RF-55 RF-57	678.27' 678.27'	RF-58	678.27'	15.88'	6" PVC	1.00%
59	45° BEND	680.87	RF-58	678.11'	RF-59	678.11'	2.83'	6" PVC	1.00%
60	CLEANOUT	680.67	RF-59	678.08'	RF-60	678.08'	32.00'	6" PVC	1.43%
61	ROOF DRAIN	681.45			RF-61	678.50'	2.25'	6" PVC	1.00%
62	45° BEND	681.45	RF-61	678.48'	RF-62	678.48'	2.83'	6" PVC	1.00%
63	CLEANOUT	681.48	RF-62	678.45'	RF-63	678.45'	17.98'	6" PVC	1.00%
64	ROOF DRAIN	681.45			RF-64	678.50'			
65	45° BEND	681.45	RF-65	678.48'	RF-64	678.48'	2.25'	6" PVC	-1.00%
66	WYE BEND	681.42	RF-63	678.27'	RF-66 RF-65	678.27' 678.27'	15.88' 2.80'	6" PVC 6" PVC	1.00% -7.42%
67	45° BEND	681.00	RF-66	678.11'	RF-67	678.11'	2.83'	6" PVC	17.21%
68	WYE BEND	680.88	RF-60 RF-67	677.62' 677.62'	RF-68	677.62'	32.00'	6" PVC	2.00%
69	ROOF DRAIN	681.45			RF-69	678.50'	2.25'	6" PVC	1.00%
70	45° BEND	681.45	RF-69	678.48'	RF-70	678.48'	2.83'	6" PVC	1.00%
71	CLEANOUT	681.48	RF-70	678.45'	RF-71	678.45'	17.98'	6" PVC	1.00%
72	ROOF DRAIN	681.45			RF-72	678.50'	2.25'	6" PVC	1.00%
73	45° BEND	681.45	RF-72	678.48'	RF-73	678.48'	2.80'	6" PVC	7.42%
74	WYE BEND	681.42	RF-71 RF-73	678.27' 678.27'	RF-74	678.27'	15.88'	6" PVC	1.00%
75	45° BEND	681.13	RF-74	678.11'	RF-75	678.11'	2.83'	6" PVC	39.84%
76	WYE BEND	681.09	RF-68 RF-75	676.98' 676.98'	RF-76	676.98'	9.18'	6" PVC	2.00%
77	PROPOSED INLET	681.13	RF-76	676.80'					
78	BUILDING STUB	681.50			RF-78	679.00'	1.40'	8.0" PVC	1.10%
79	45° BEND	681.47	RF-78	678.98'	RF-79	678.98'	2.83'	8" PVC	1.10%
80	CLEANOUT	681.44	RF-79	678.95'	RF-80	678.95'	48.10'	8" PVC	2.22%
81	BUILDING STUB	681.79			RF-81	679.00'	2.93'	8" PVC	2.00%
82	CLEANOUT	681.75	RF-81	678.94'	RF-82	678.94'	9.34'	8" PVC	2.00%
83	45° BEND	681.52	RF-82	678.75'	RF-83	678.75'	2.83'	8" PVC	30.76%
84	WYE BEND	681.46	RF-80 RF-83	677.88' 677.88'	RF-84	677.72'	21.61'	10" PVC	3.00%
85	45° BEND	681.53	RF-84	677.07'	RF-85	677.07'	4.24'	10" PVC	2.50%
86	BUILDING STUB	???			RF-86	679.00'	3.73'	8" PVC	2.00%
87	CLEANOUT	???	RF-86	678.93'	RF-87	678.93'	27.59'	8" PVC	2.00%
88	45° BEND	681.86	RF-87	678.37'	RF-88	678.37'	11.31'	8" PVC	2.00%
89	45° BEND	681.63	RF-88	678.15'	RF-89	678.15'	19.57'	8" PVC	4.66%
90	45° BEND	681.53	RF-89	677.24'	RF-90	677.07'	4.24'	10" PVC	2.50%
91	Y-TEE WITH CLEANOUT	681.40	RF-85 RF-90	676.96' 676.96'	RF-91	676.96'	73.18'	10" PVC	2.00%
92	PROPOSED CATCH BASIN	678.96	RF-91	675.50'					

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 KNOXVILLE, TN 37909

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 STURBRIDGE, MA 01566

ENGINEER SEAL

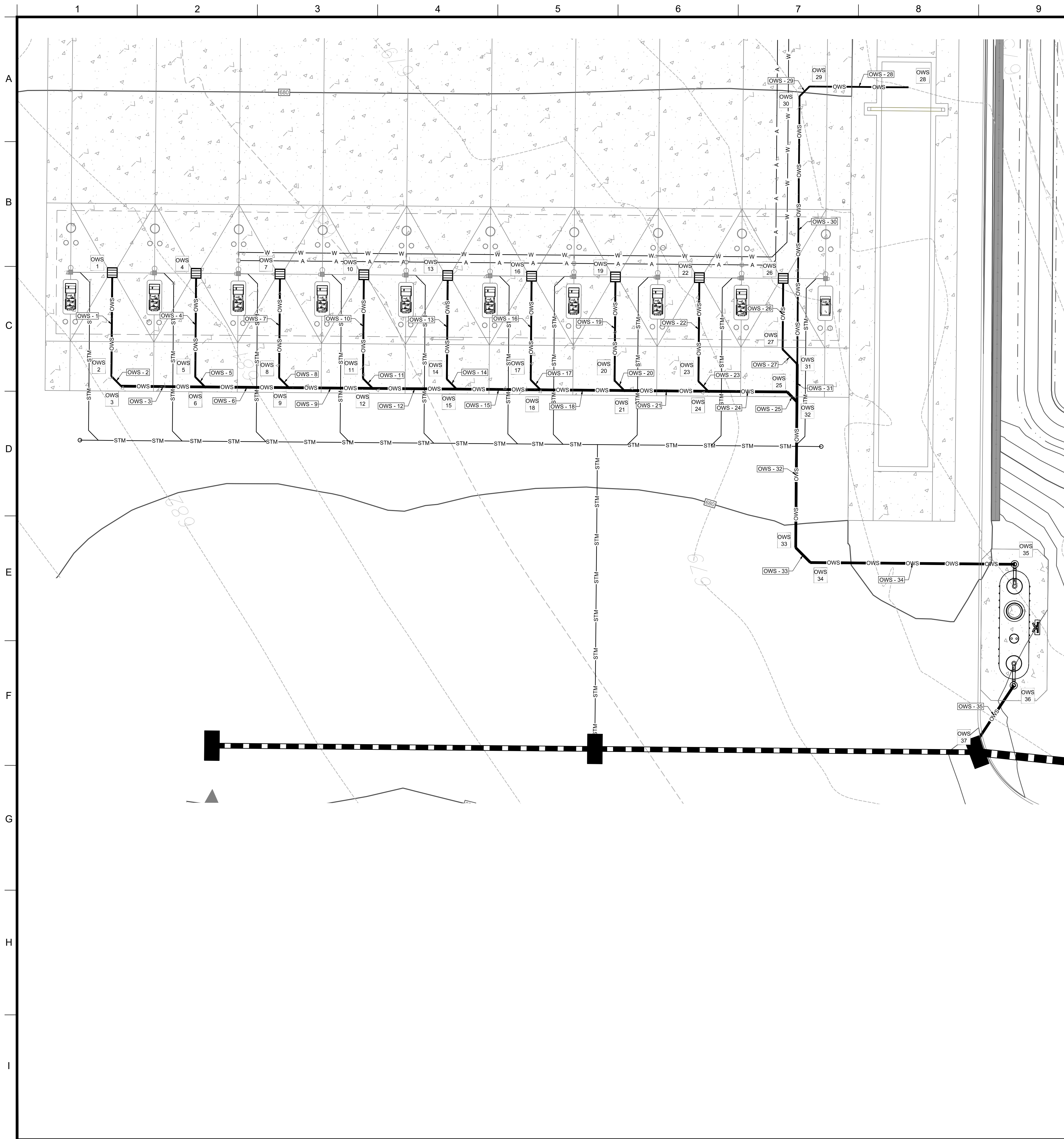
 ALAN D. ROSCOE, P.E.
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SHEET TITLE
 ROOF DRAIN
 UTILITY
 PLAN

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
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SHEET NO.
C6.2.1

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STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
1	CATCH BASIN	680.00			OWS - 1	676.50'	21.00'	4" PVC	1.00%
2	45° BEND	680.16	OWS - 1	676.29'	OWS - 2	676.29'	2.83'	4" PVC	4.94%
3	CLEANOUT	680.14	OWS - 2	676.15'	OWS - 3	676.15'	17.00'	6" PVC	1.00%
4	CATCH BASIN	680.00			OWS - 4	676.50'	21.00'	4" PVC	1.00%
5	45° BEND	680.16	OWS - 4	676.29'	OWS - 5	676.29'	2.83'	4" PVC	10.95%
6	WYE BEND	680.14	OWS - 3	675.98'	OWS - 6	675.98'	17.00'	6" PVC	1.00%
7	CATCH BASIN	680.00			OWS - 7	676.50'	21.00'	4" PVC	1.00%
8	45° BEND	680.16	OWS - 7	676.29'	OWS - 8	676.29'	2.83'	4" PVC	16.96%
9	WYE BEND	680.14	OWS - 8	675.81'	OWS - 9	675.81'	17.00'	6" PVC	1.00%
10	CATCH BASIN	680.00			OWS - 10	676.50'	21.00'	4" PVC	1.00%
11	45° BEND	680.16	OWS - 10	676.29'	OWS - 11	676.29'	2.83'	4" PVC	22.97%
12	WYE BEND	680.14	OWS - 11	675.64'	OWS - 12	675.64'	17.00'	6" PVC	1.00%
13	CATCH BASIN	680.00			OWS - 13	676.50'	21.00'	4" PVC	1.00%
14	45° BEND	680.16	OWS - 13	676.29'	OWS - 14	676.29'	2.83'	4" PVC	28.98%
15	WYE BEND	680.14	OWS - 12	675.47'	OWS - 15	675.47'	17.00'	6" PVC	1.00%
16	CATCH BASIN	680.00			OWS - 16	676.50'	21.00'	4" PVC	1.00%
17	45° BEND	680.16	OWS - 16	676.29'	OWS - 17	676.29'	2.83'	4" PVC	34.99%
18	WYE BEND	680.14	OWS - 15	675.30'	OWS - 18	675.30'	17.00'	6" PVC	1.00%
19	CATCH BASIN	680.00			OWS - 19	676.50'	21.00'	4" PVC	1.00%
20	45° BEND	680.16	OWS - 19	676.29'	OWS - 20	676.29'	2.83'	4" PVC	41.00%
21	WYE BEND	680.14	OWS - 18	675.13'	OWS - 21	675.13'	17.00'	6" PVC	1.00%
22	CATCH BASIN	680.00			OWS - 22	676.50'	21.00'	4" PVC	1.00%
23	45° BEND	680.16	OWS - 22	676.29'	OWS - 23	676.29'	2.83'	4" PVC	47.01%
24	WYE BEND	680.14	OWS - 21	674.96'	OWS - 24	674.96'	15.99'	6" PVC	1.00%
25	45° BEND	680.14	OWS - 24	674.80'	OWS - 25	674.80'	2.83'	6" PVC	1.00%
26	CATCH BASIN	680.00			OWS - 26	676.50'	14.38'	4" PVC	1.00%
27	45° BEND	680.23	OWS - 26	676.36'	OWS - 27	676.36'	4.24'	4" PVC	35.60%
28	SUMP	680.73			OWS - 28	676.50'	20.04'	3" PVC	1.00%
29	45° BEND	679.99	OWS - 28	676.30'	OWS - 29	676.30'	2.83'	3" PVC	32.11%
30	CLEANOUT	680.01	OWS - 29	675.39'	OWS - 30	675.39'	54.30'	3" PVC	1.00%
31	WYE BEND	680.20	OWS - 30	674.85'	OWS - 31	674.85'	7.63'	6" PVC	1.00%
32	WYE BEND	680.13	OWS - 25	674.77'	OWS - 32	674.77'	29.52'	6" PVC	1.00%
33	45° BEND	679.98	OWS - 32	674.48'	OWS - 33	674.48'	4.24'	6" PVC	1.00%
34	CLEANOUT	679.96	OWS - 33	674.43'	OWS - 34	674.43'	41.44'	6" PVC	1.00%
35	INLET CLEANOUT	679.68	OWS - 34	674.02'					
36	OUTLET CLEANOUT	678.90			OWS - 35	673.77'	14.52'	6" PVC	1.00%
37	PROPOSED CURB INLET	678.92	OWS - 35	673.62'					

CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATER TOWN, MA 02472
 PHONE (617) 576-0007
 ARSCOE@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909

Know what's below. Call before you dig.

REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

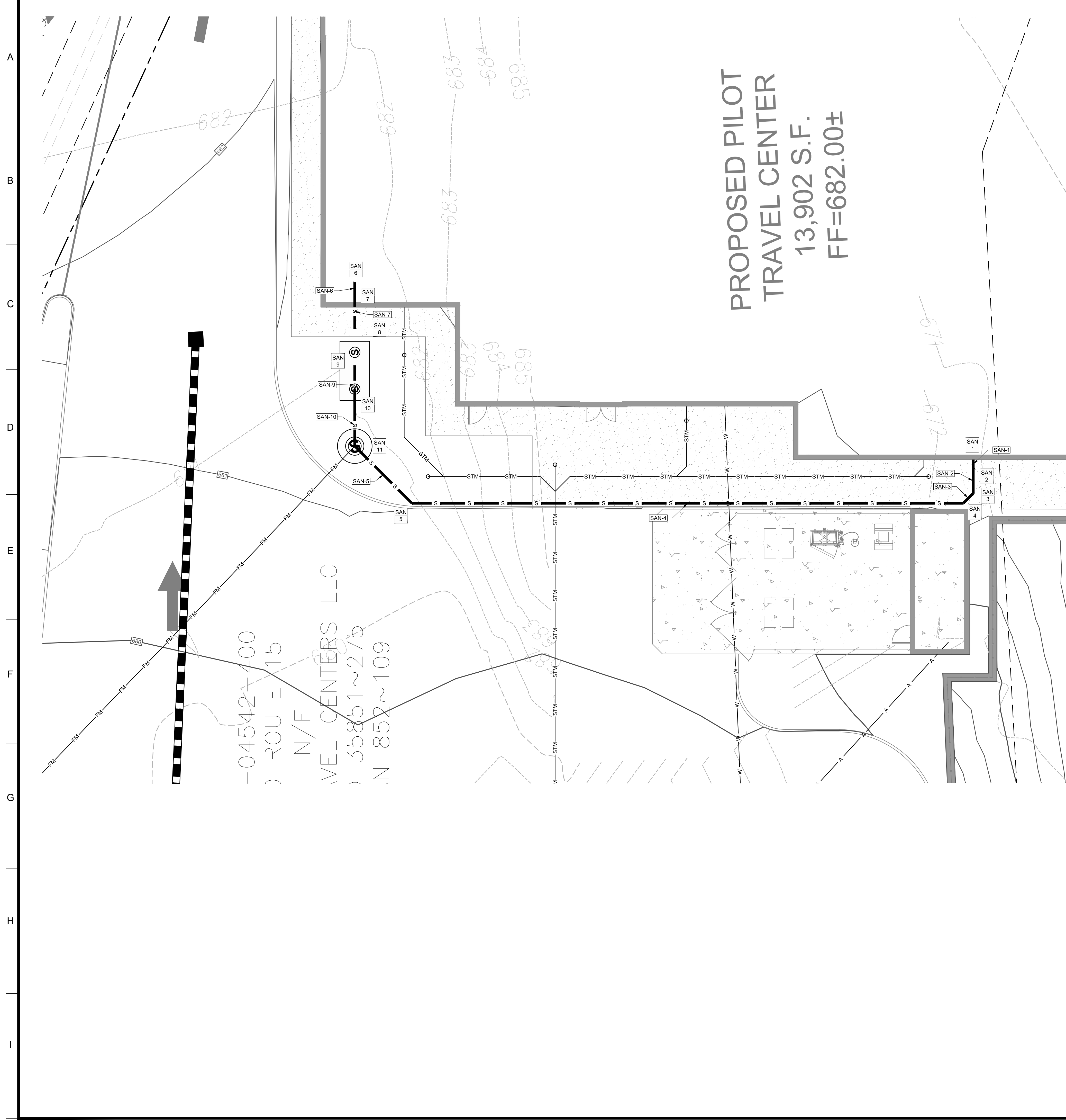
 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 OWS UTILITY
 PLAN

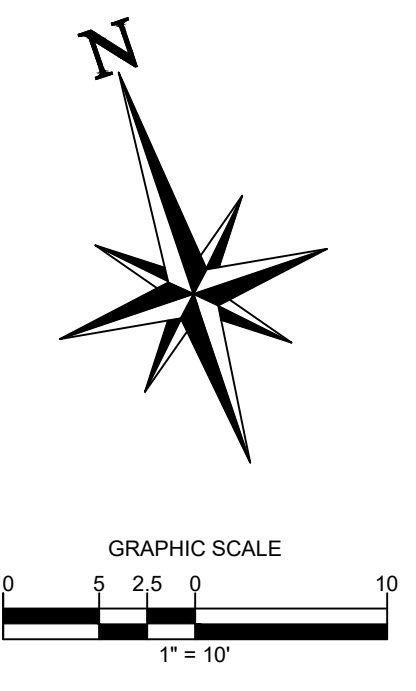
JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C6.3

ALERT TO CONTRACTOR:
 PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.



SANITARY STRUCTURE TABLE									
STRUCTURE NAME	STRUCTURE TYPE	RIM	UPSTREAM PIPE NAME	UPSTREAM PIPE INV.	DOWNSTREAM PIPE NAME	DOWNSTREAM PIPE INV.	DOWNSTREAM PIPE LENGTH	DOWNSTREAM PIPE SIZE AND TYPE	DOWNSTREAM PIPE SLOPE
1	BUILDING STUB	681.50			SAN-1	675.00'	1.77'	6" SDR-26 PVC	2.00%
2	DUAL-WAY CLEANOUT	681.47	SAN-1	674.96'	SAN-2	674.96'	5.03'	6" SDR-26 PVC	2.00%
3	45° BEND	681.35	SAN-2	674.86'	SAN-3	674.86'	2.83'	6" SDR-26 PVC	2.00%
4	CLEANOUT	681.23	SAN-3	674.81'	SAN-4	674.81'	111.72'	6" SDR-26 PVC	2.00%
5	45° BEND	681.52	SAN-4	672.57'	SAN-5	672.57'	16.36'	6" SDR-26 PVC	2.00%
6	BUILDING STUB	???			SAN-6	672.44'	2.39'	6" SDR-26 PVC	2.00%
7	DUAL-WAY CLEANOUT	???	SAN-6	672.39'	SAN-7	672.39'	6.99'	6" SDR-26 PVC	2.00%
8	GREASE TRAP INLET	681.96	SAN-7	672.25'					
9	GREASE TRAP OUTLET	681.91			SAN-9	672.57'	7.86'	6" SDR-26 PVC	2.00%
10	DUAL-WAY CLEANOUT	681.86	SAN-9	672.41'	SAN-10	672.41'	8.45'	6" SDR-26 PVC	2.00%
11	PROPOSED LIFT STATION	681.77	SAN-5 SAN-10	672.25' 672.25'					



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CLIENT
Pilot TRAVEL CENTERS
 PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909

811
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REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

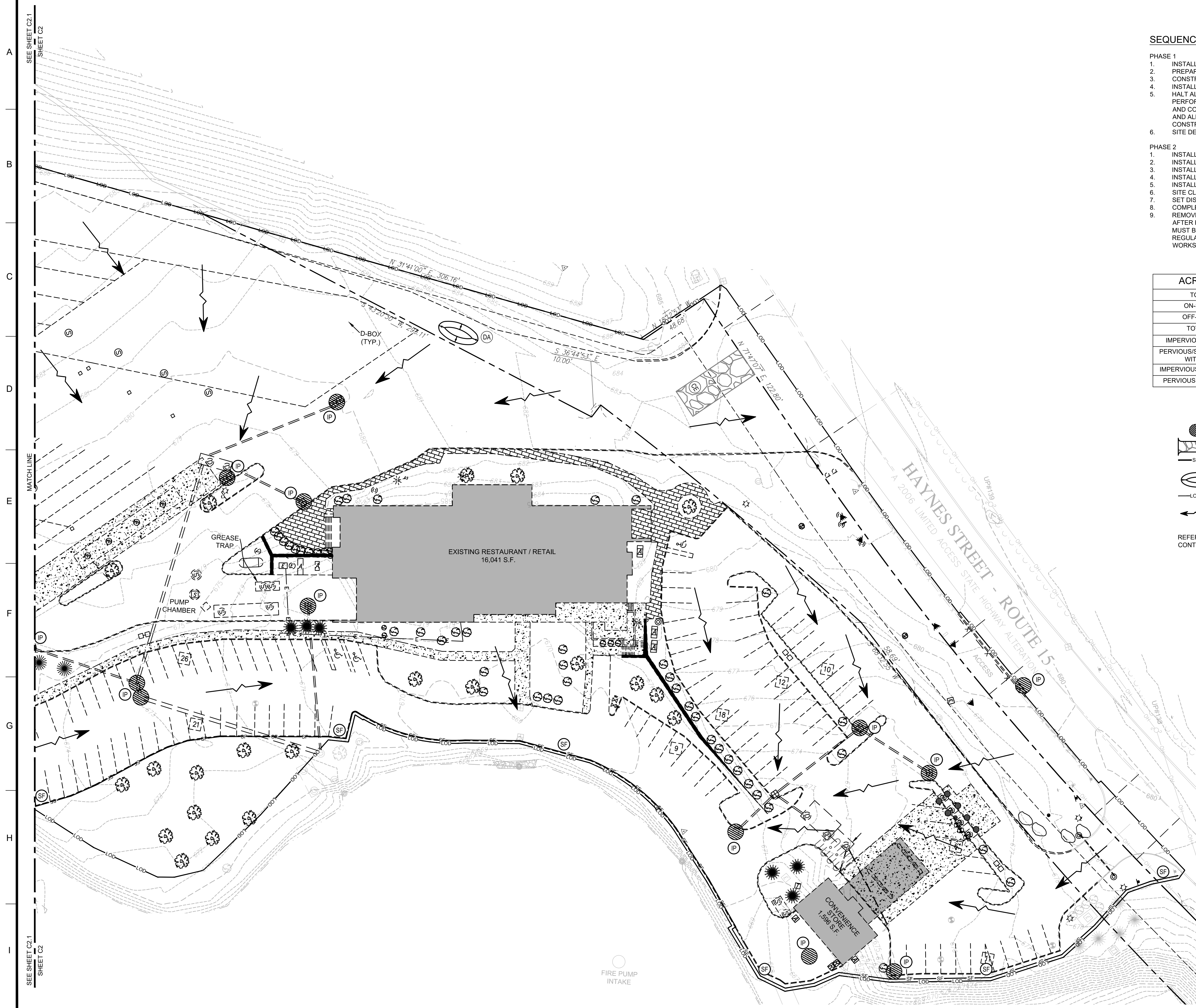
 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 SANITARY SEWER
 UTILITY PLAN

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C6.4

ALERT TO CONTRACTOR:
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SEQUENCE OF CONSTRUCTION

- PHASE 1**
1. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
 2. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 3. CONSTRUCT THE SILT FENCES ON THE SITE.
 4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
 5. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
 6. SITE DEMOLITION/CLEARING.
- PHASE 2**
1. INSTALL TANKS.
 2. INSTALL CANOPY AND BUILDING.
 3. INSTALL PIPING, ELECTRICAL AND UTILITIES.
 4. INSTALL CURBS AND ISLANDS.
 5. INSTALL PAVING.
 6. SITE CLEAN UP.
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 8. COMPLETE GRADING AND INSTALL LANDSCAPING.
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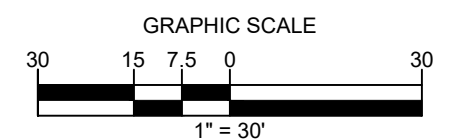
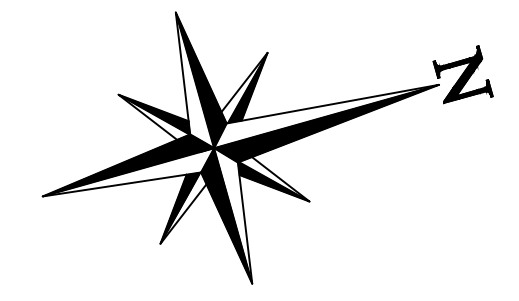
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OFF-SITE DISTURBED AREA	0.211
TOTAL DISTURBED AREA	9.117
IMPERVIOUS AREA WITHIN PROPERTY	6.557
PERVIOUS/SEEDED AREA AT COMPLETION WITHIN THE PROPERTY	2.349
IMPERVIOUS AREA WITHIN RIGHT-OF-WAY	0.097
PERVIOUS AREA WITHIN RIGHT-OF-WAY	0.114

E&S PLAN LEGEND

- IP INLET PROTECTION
- CE CONSTRUCTION ENTRANCE
- SF SILT FENCE
- 8' DEPRESSED AREA FOR WASHDOWN
- LIMITS OF DISTURBANCE
- DIRECTION OF OVERLAND FLOW

REFER TO SHEET CX AND CX FOR EROSION CONTROL DETAILS



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 AKOSCOE@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

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 5508 LONAS ROAD
 KNOXVILLE, TN 37909

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

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

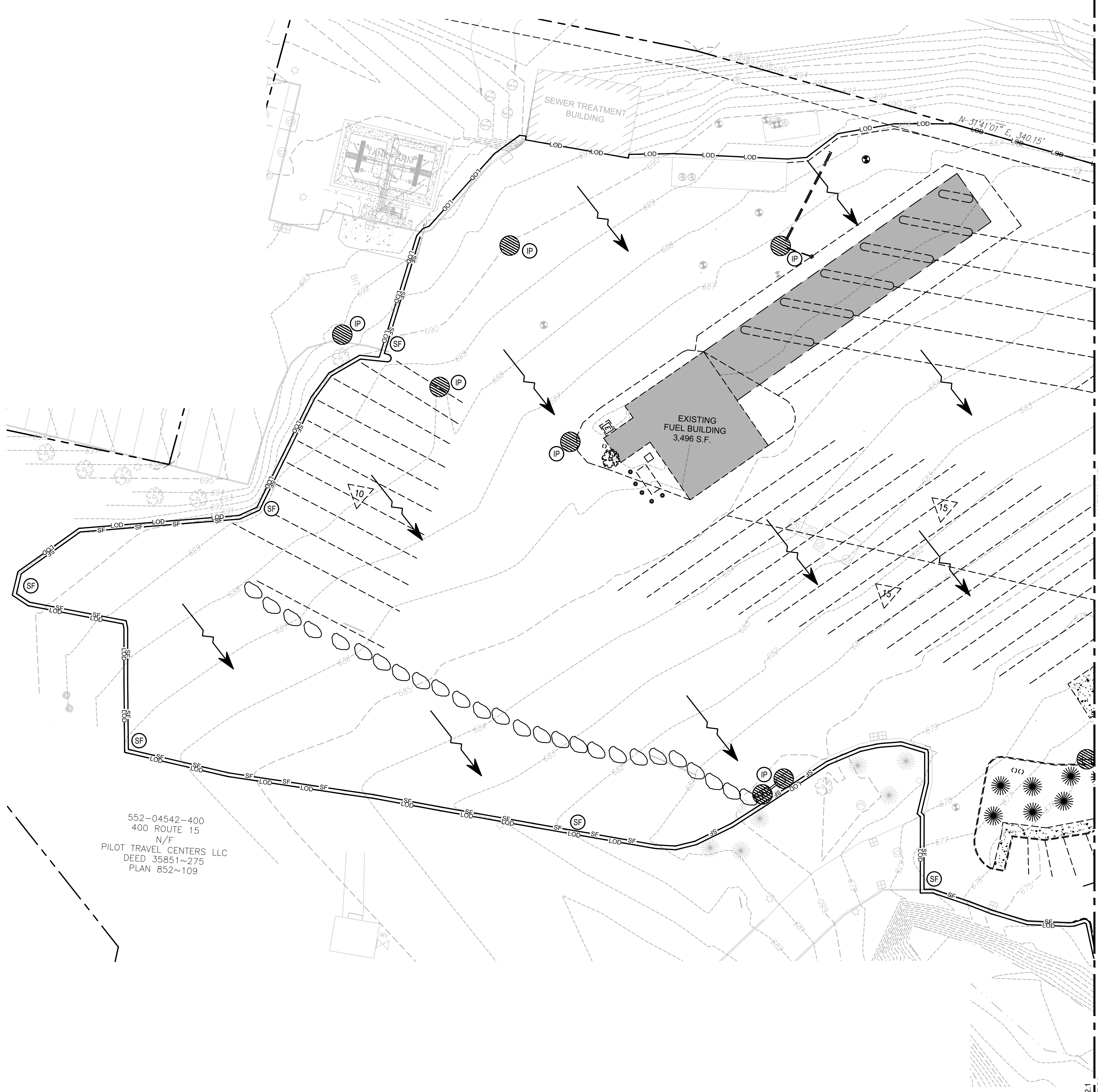
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
PHASE 1 SOIL EROSION AND SEDIMENT CONTROL

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C7.0



SEQUENCE OF CONSTRUCTION

- PHASE 1**
1. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
 2. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 3. CONSTRUCT THE SILT FENCES ON THE SITE.
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 5. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMP'S. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
 6. SITE DEMOLITION/CLEARING.
- PHASE 2**
1. INSTALL TANKS.
 2. INSTALL CANOPY AND BUILDING.
 3. INSTALL PIPING, ELECTRICAL AND UTILITIES.
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 5. INSTALL PAVING.
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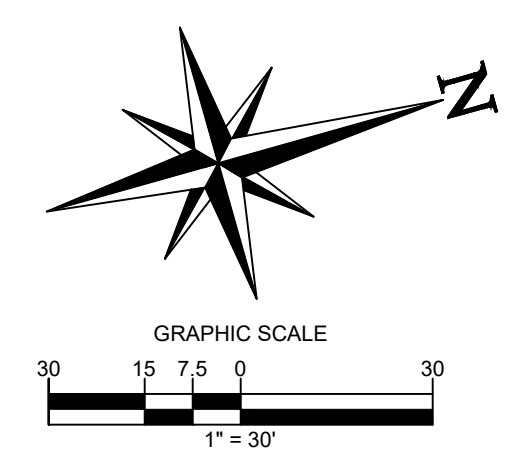
ACREAGE SUMMARY (IN ACRES)

TOTAL PROJECT AREA	30.71
ON-SITE DISTURBED AREA	8.906
OFF-SITE DISTURBED AREA	0.211
TOTAL DISTURBED AREA	9.117
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PERVIOUS/SEEDED AREA AT COMPLETION WITHIN IN THE PROPERTY	2.349
IMPERVIOUS AREA WITHIN RIGHT-OF-WAY	0.097
PERVIOUS AREA WITHIN RIGHT-OF-WAY	0.114

E&S PLAN LEGEND

- INLET PROTECTION
- CONSTRUCTION ENTRANCE
- SILT FENCE
- 8" DEPRESSED AREA FOR WASHDOWN
- LIMITS OF DISTURBANCE
- DIRECTION OF OVERLAND FLOW

REFER TO SHEET CX AND CX FOR EROSION CONTROL DETAILS



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ARCOSOC@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN 37909

811

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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

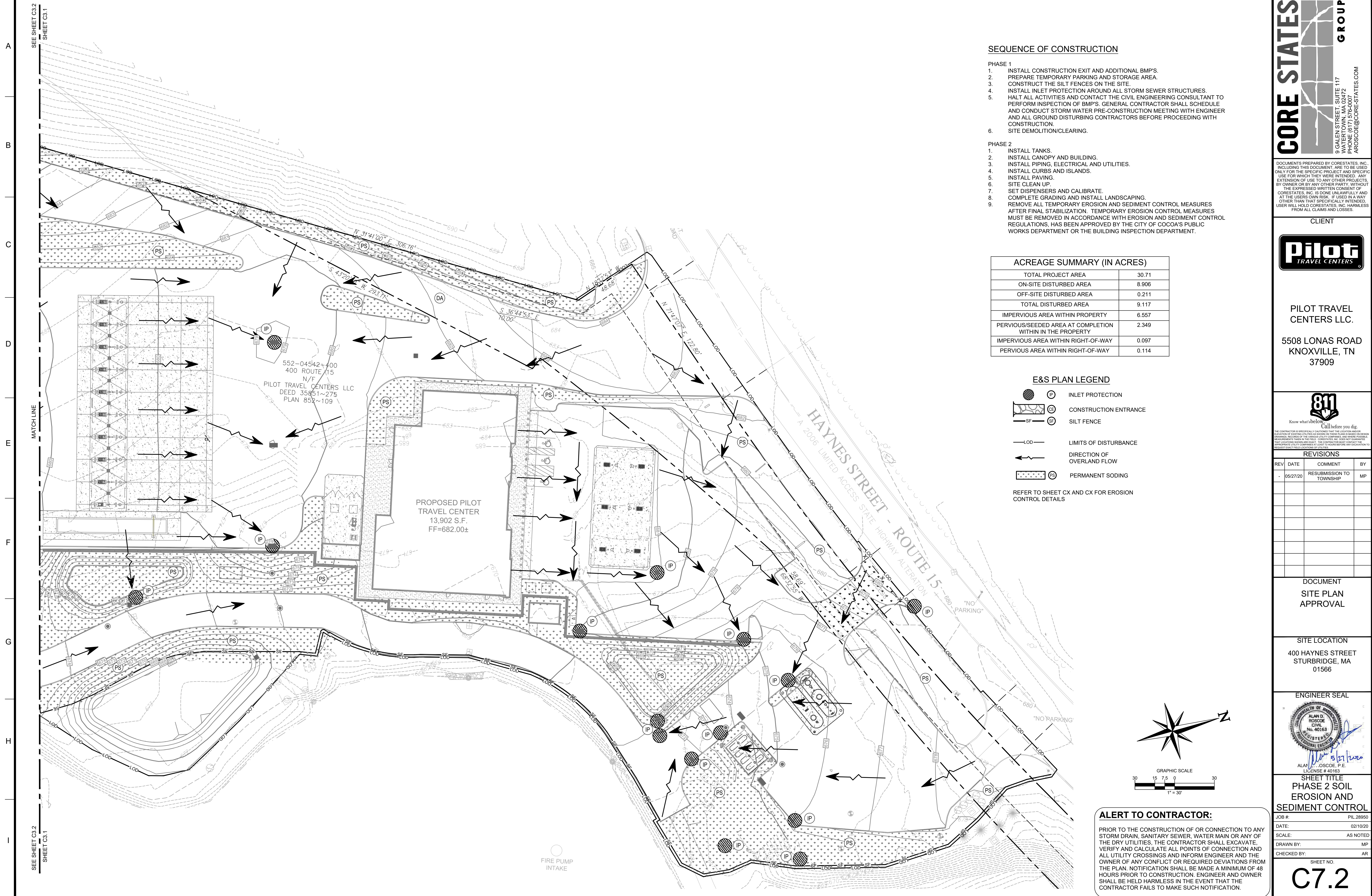
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
PHASE 1 SOIL EROSION AND SEDIMENT CONTROL

JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C7.1



SEQUENCE OF CONSTRUCTION

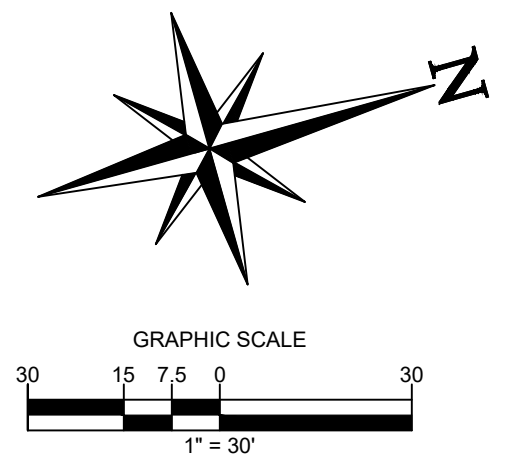
- PHASE 1**
1. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
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PERVIOUS AREA WITHIN RIGHT-OF-WAY	0.114

E&S PLAN LEGEND

- IP INLET PROTECTION
 - CE CONSTRUCTION ENTRANCE
 - SF SILT FENCE
 - LOD LIMITS OF DISTURBANCE
 - DIRECTION OF OVERLAND FLOW
 - PS PERMANENT SODDING
- REFER TO SHEET CX AND CX FOR EROSION CONTROL DETAILS



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CLIENT

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KNOXVILLE, TN 37909

811
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REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
PHASE 2 SOIL
EROSION AND
SEDIMENT CONTROL

JOB #:	PIL 28950
DATE:	02/10/20
SCALE:	AS NOTED
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C7.2



SHEET C3.2
SEE SHEET C3.1

MATCH LINE

SHEET C3.2
SEE SHEET C3.1

SEQUENCE OF CONSTRUCTION

- PHASE 1**
1. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
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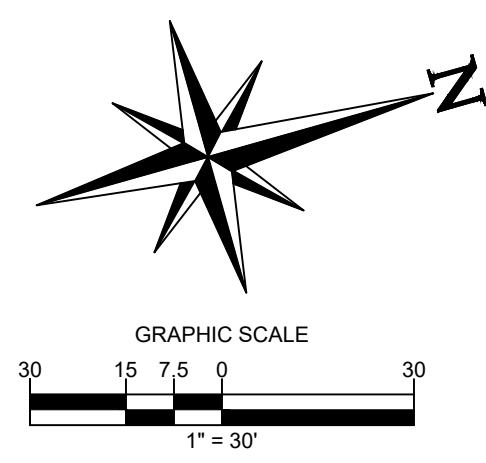
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E&S PLAN LEGEND

- IP INLET PROTECTION
- CE CONSTRUCTION ENTRANCE
- SF SILT FENCE
- LOD LIMITS OF DISTURBANCE
- DOF DIRECTION OF OVERLAND FLOW

REFER TO SHEET CX AND CX FOR EROSION CONTROL DETAILS



542-400
UTE 15
/F
CENTERS LLC
351~275
32~109

CORE STATES GROUP
9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCSCOE@CORE-STATES.COM

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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909

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

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON AVAILABLE RECORDS. RECORDS OF THE RECORDS (RTR) COMPANY ARE SHOWN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION.

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWNSHIP	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

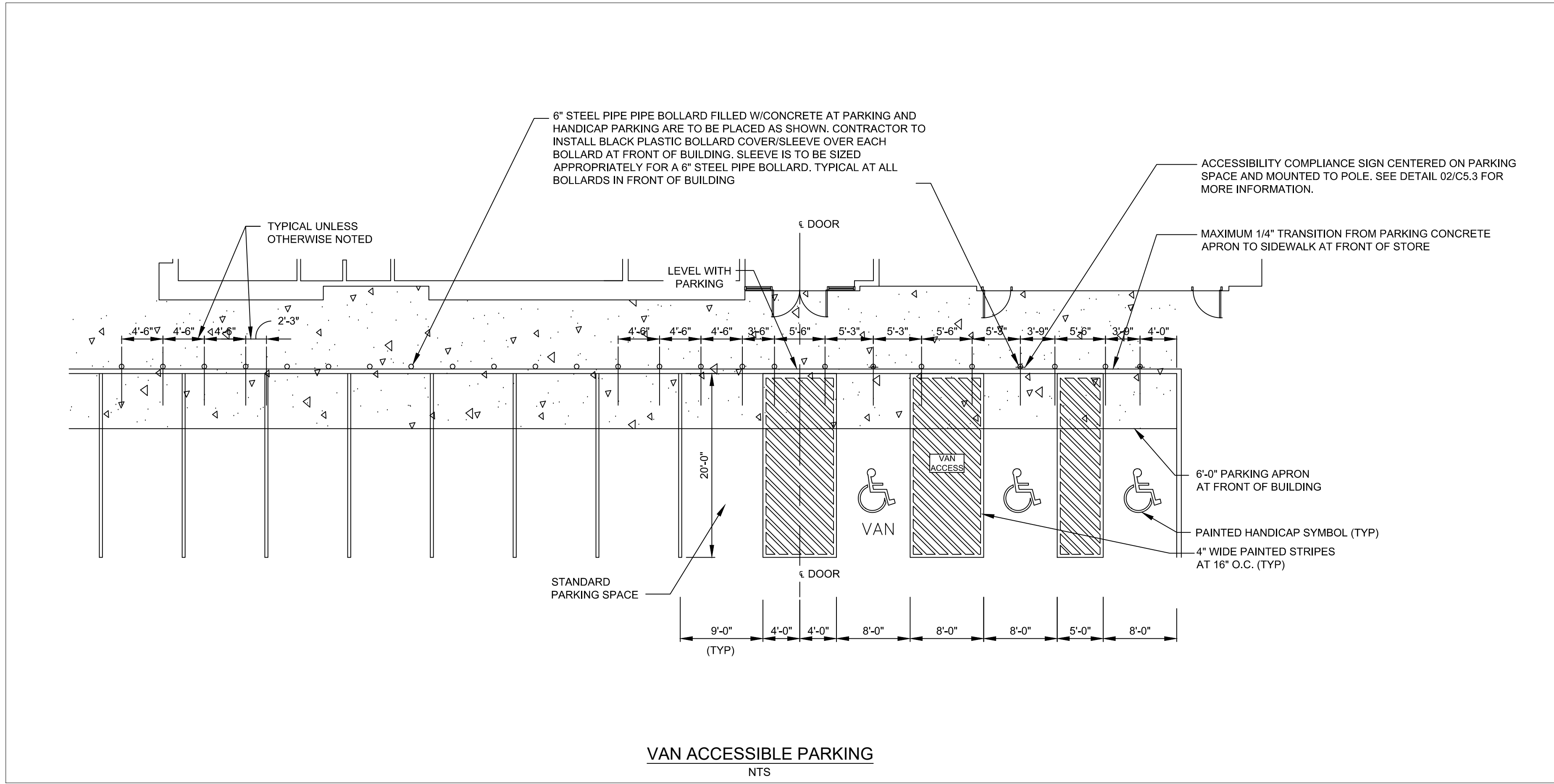
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JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
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C7.3

ALERT TO CONTRACTOR:

PRIOR TO THE CONSTRUCTION OF OR CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN OR ANY OF THE DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM ENGINEER AND THE OWNER OF ANY CONFLICT OR REQUIRED DEVIATIONS FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. ENGINEER AND OWNER SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.



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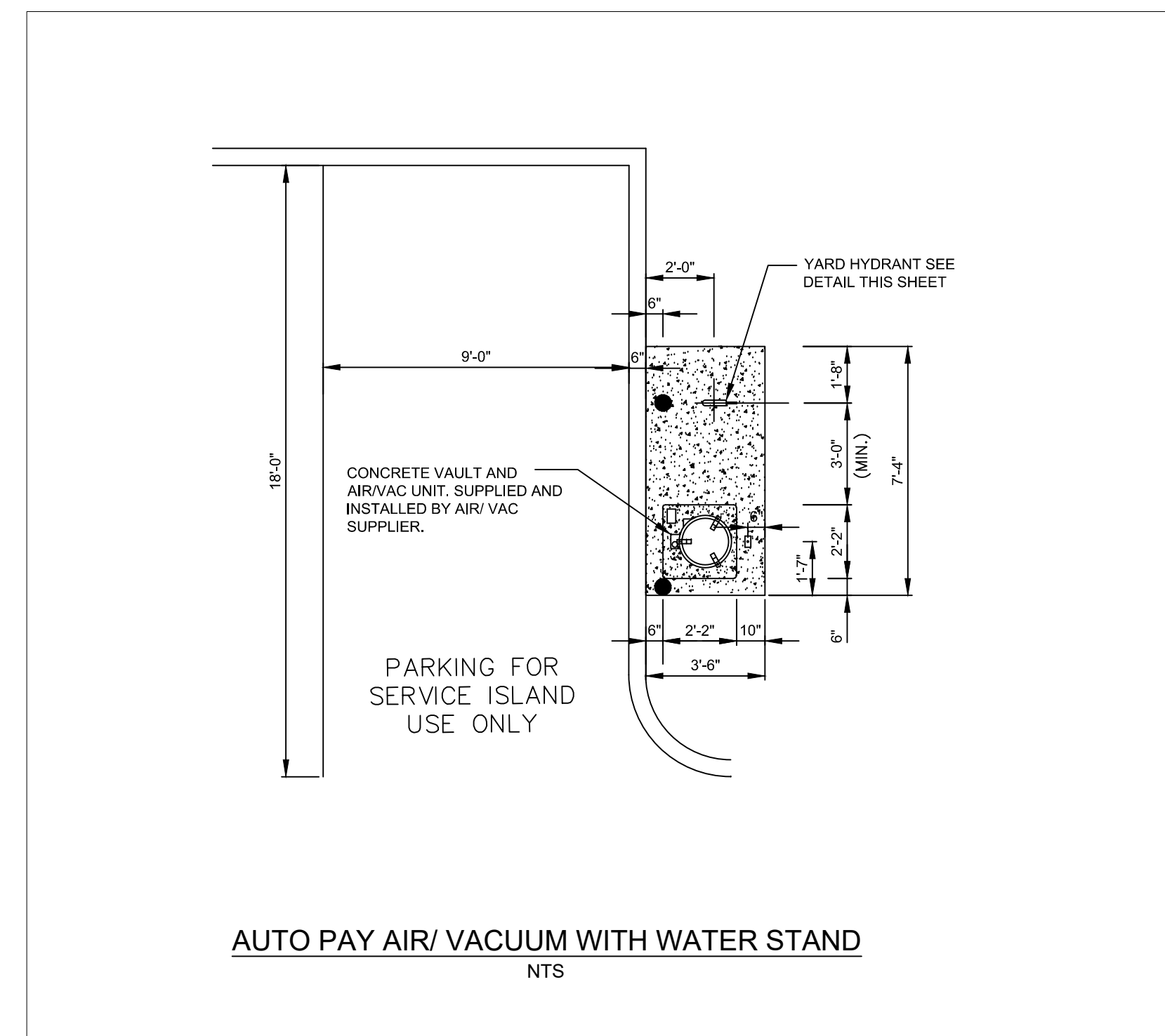
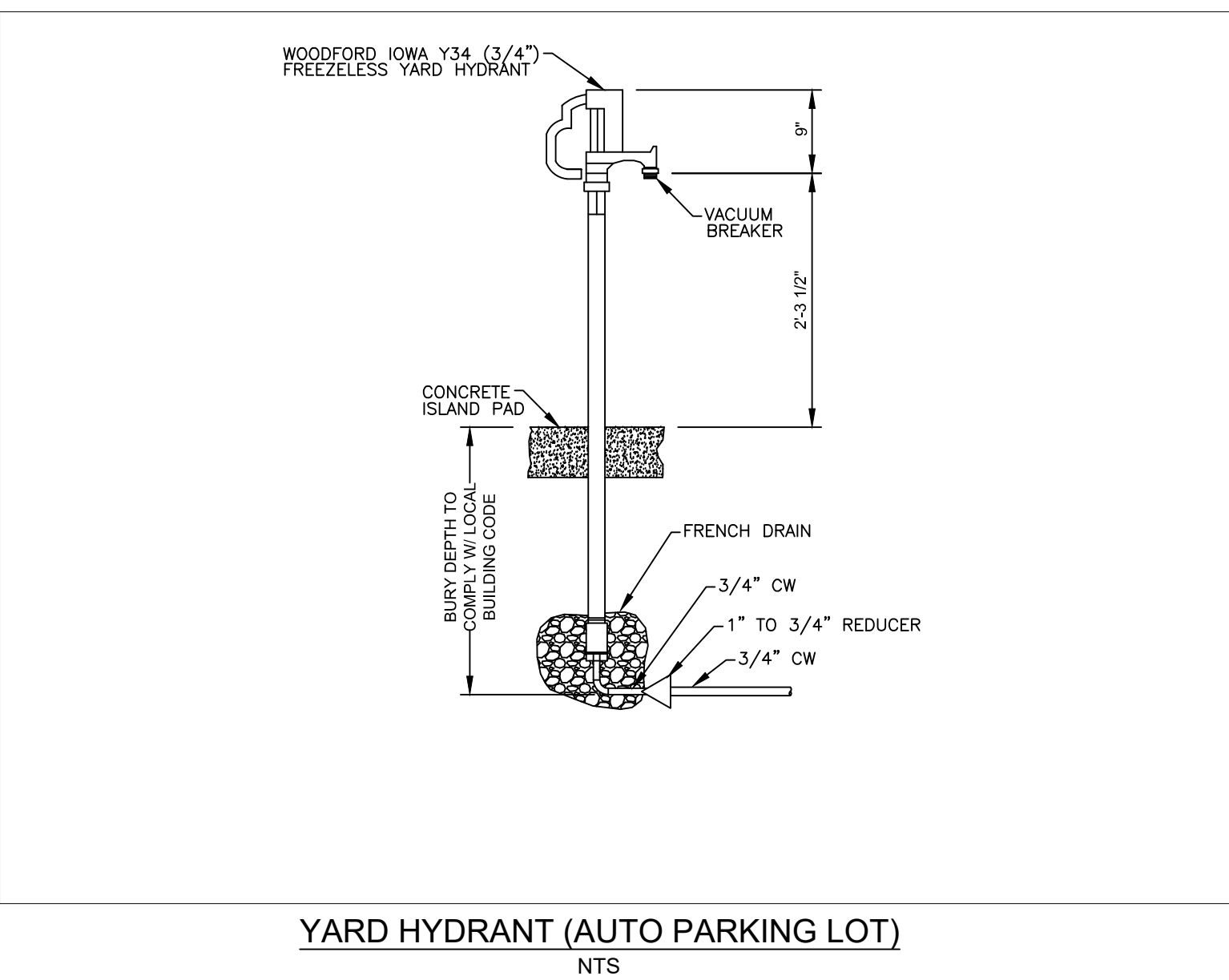
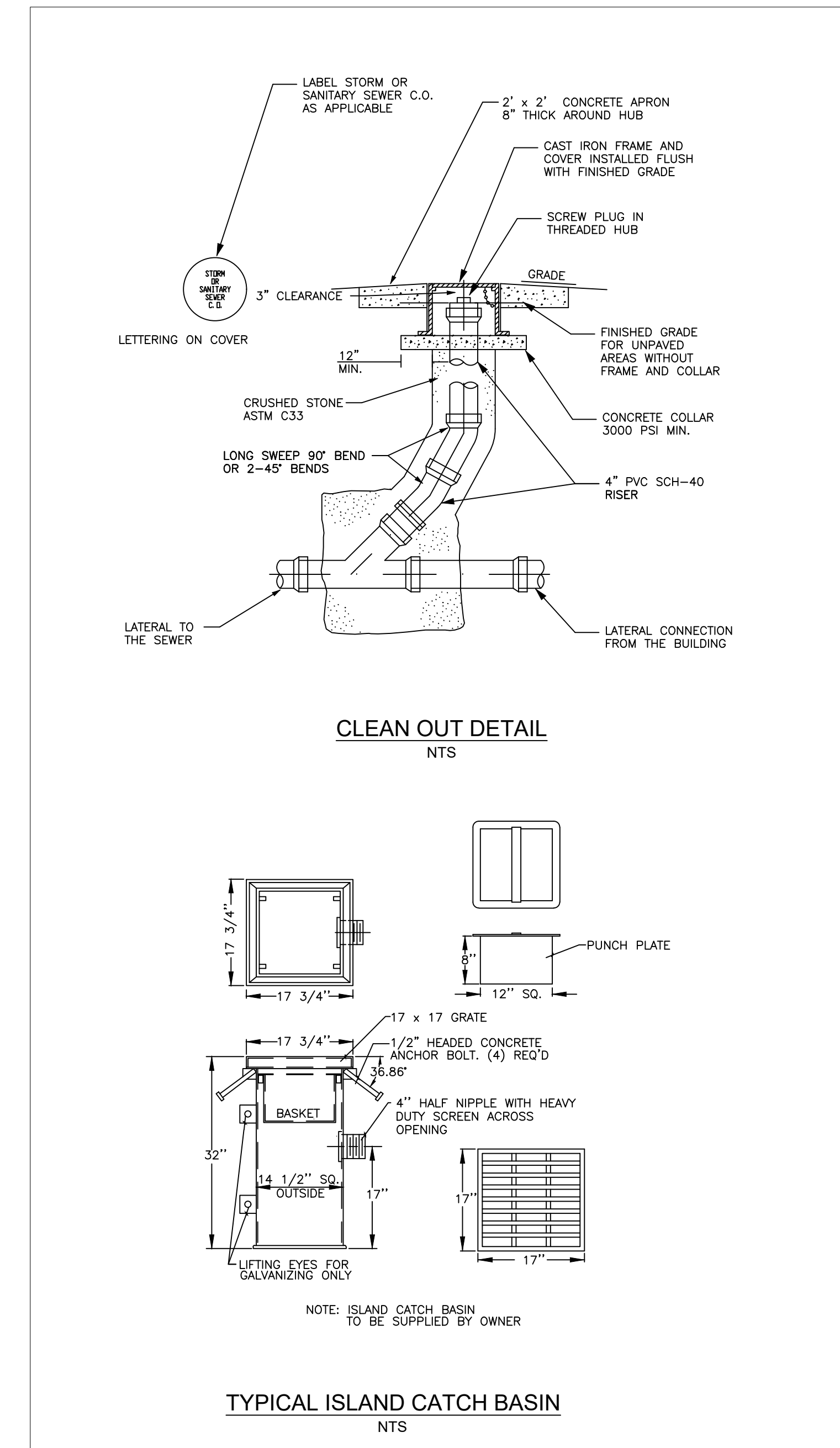
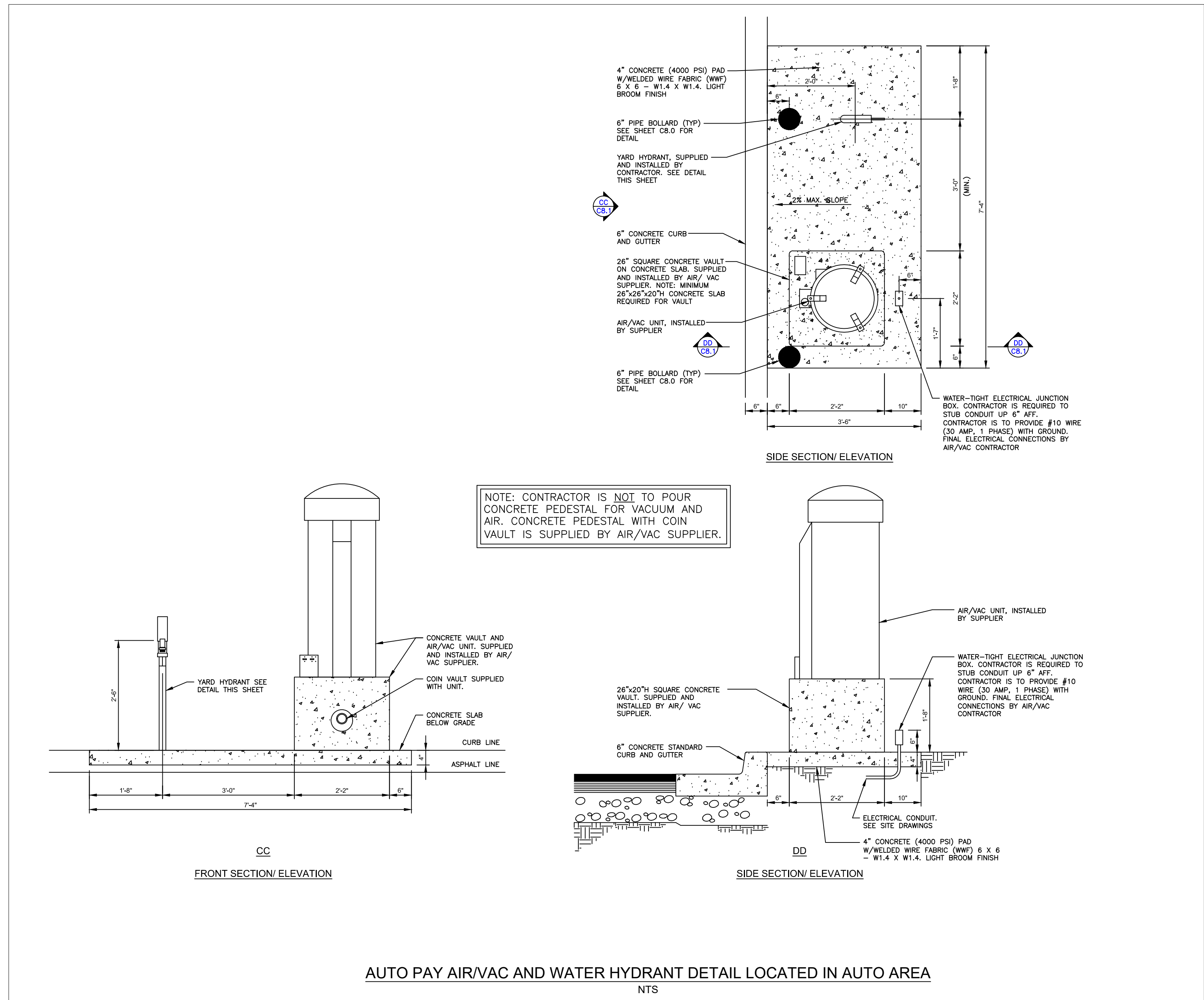
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

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CONSTRUCTION
DETAILS

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9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
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ARCOSCOE@CORE-STATES.COM

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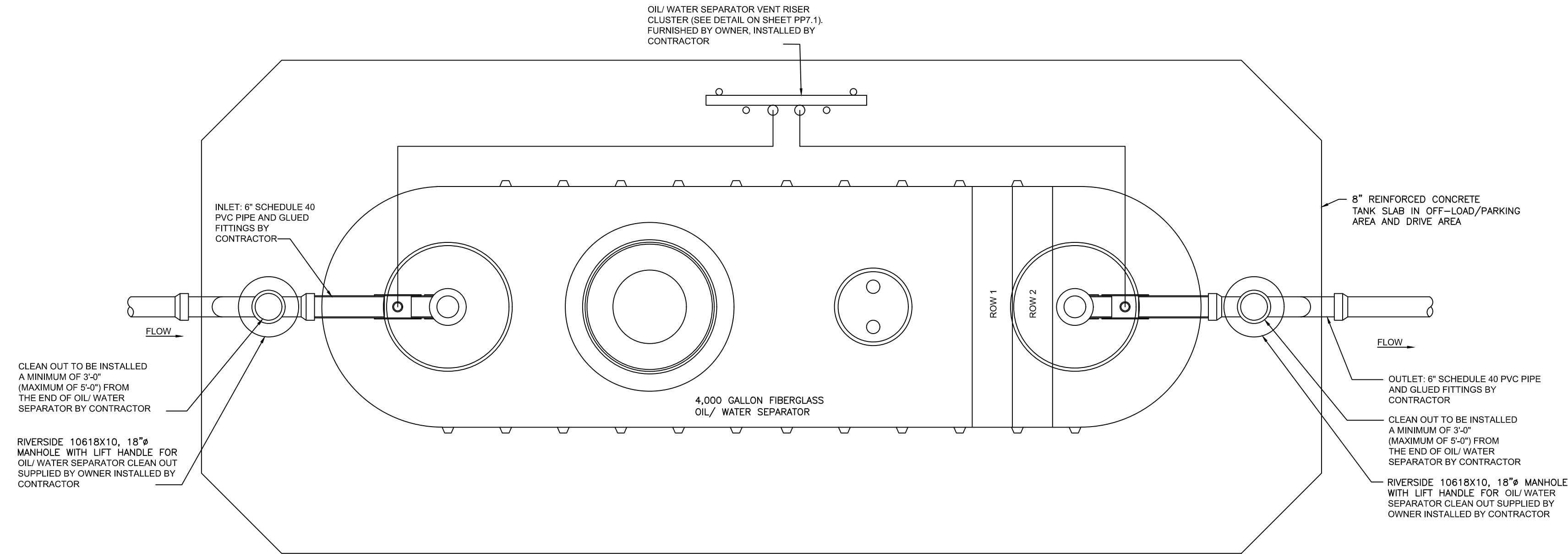
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER

ALAN D. ROSCOE, P.E.
LICENSE # 40163

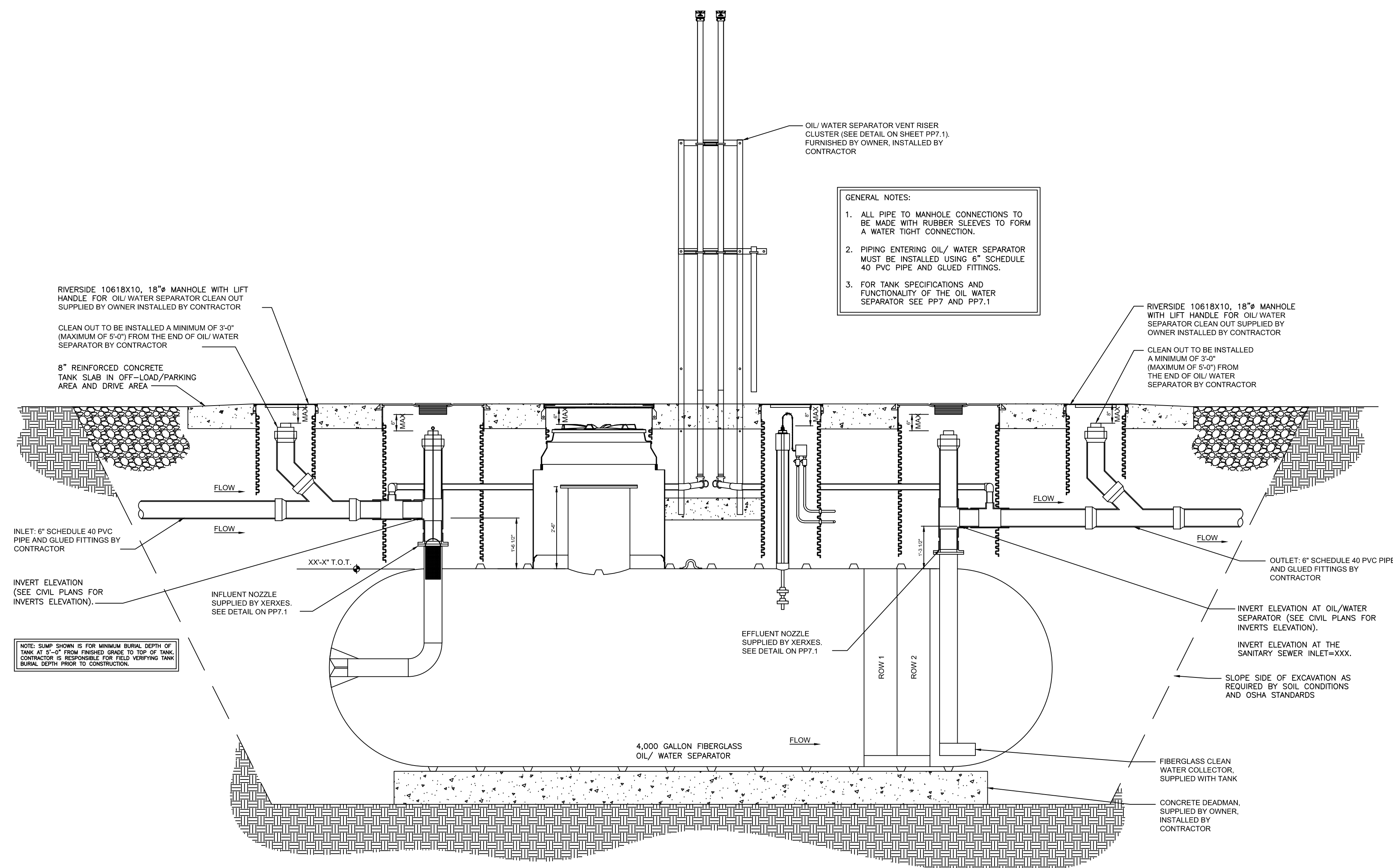
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TANK PLAN VIEW
NTS



ELEVATION

SIDE SECTION
NTS

- GENERAL NOTES:
1. ALL PIPE TO MANHOLE CONNECTIONS TO BE MADE WITH RUBBER SLEEVES TO FORM A WATER TIGHT CONNECTION.
 2. PIPING ENTERING OIL/WATER SEPARATOR MUST BE INSTALLED USING 6" SCHEDULE 40 PVC PIPE AND GLUED FITTINGS.
 3. FOR TANK SPECIFICATIONS AND FUNCTIONALITY OF THE OIL WATER SEPARATOR SEE PP7 AND PP7.1

NOTE: SHOWN S FOR MINIMUM BURIAL DEPTH OF TANK AT 3'-0" FROM FINISHED GRADE TO TOP OF TANK. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING TANK BURIAL DEPTH PRIOR TO CONSTRUCTION.

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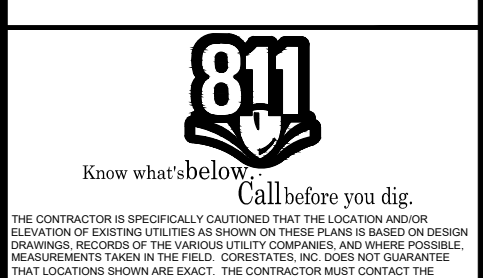
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STURBRIDGE, MA 01566

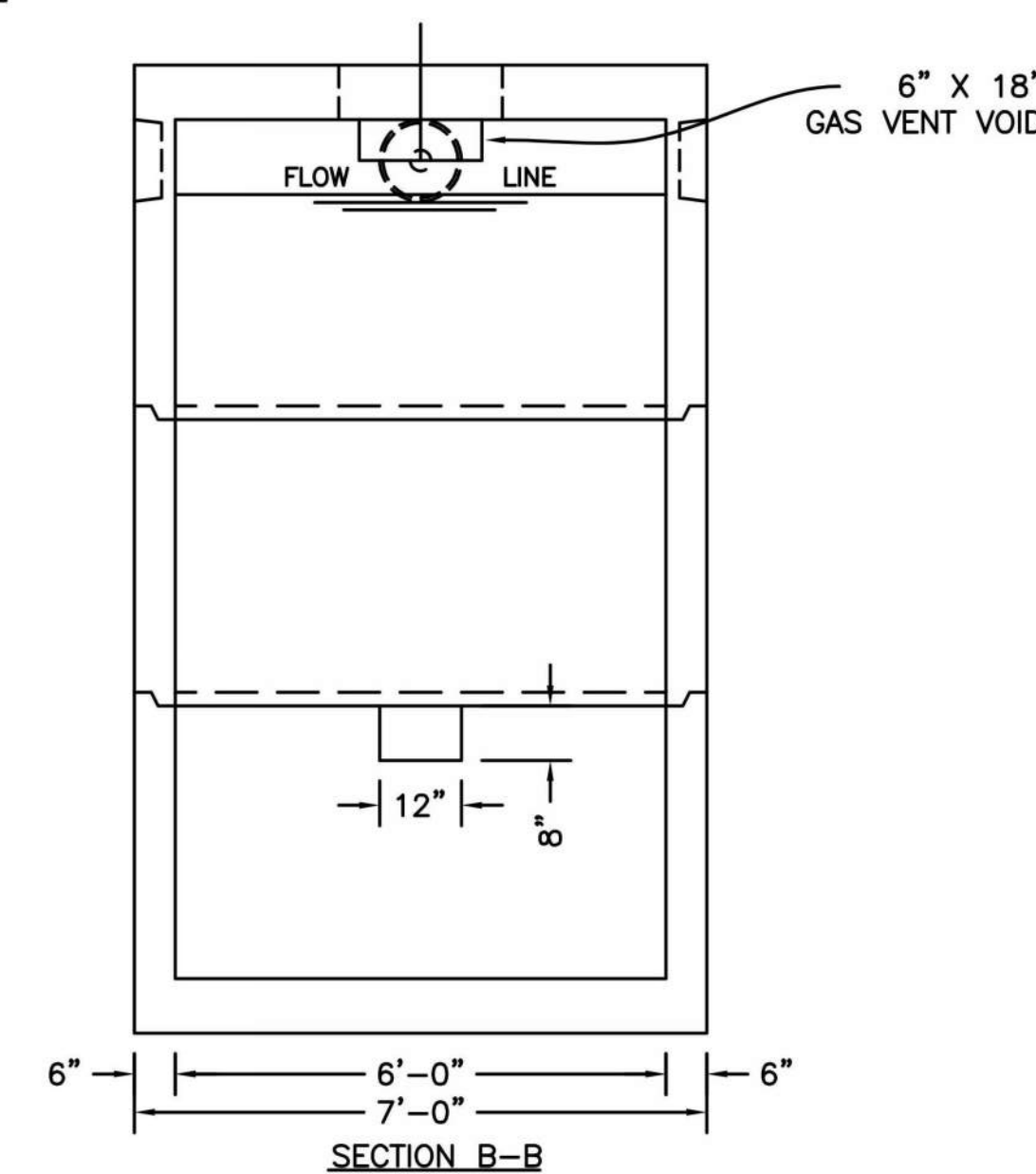
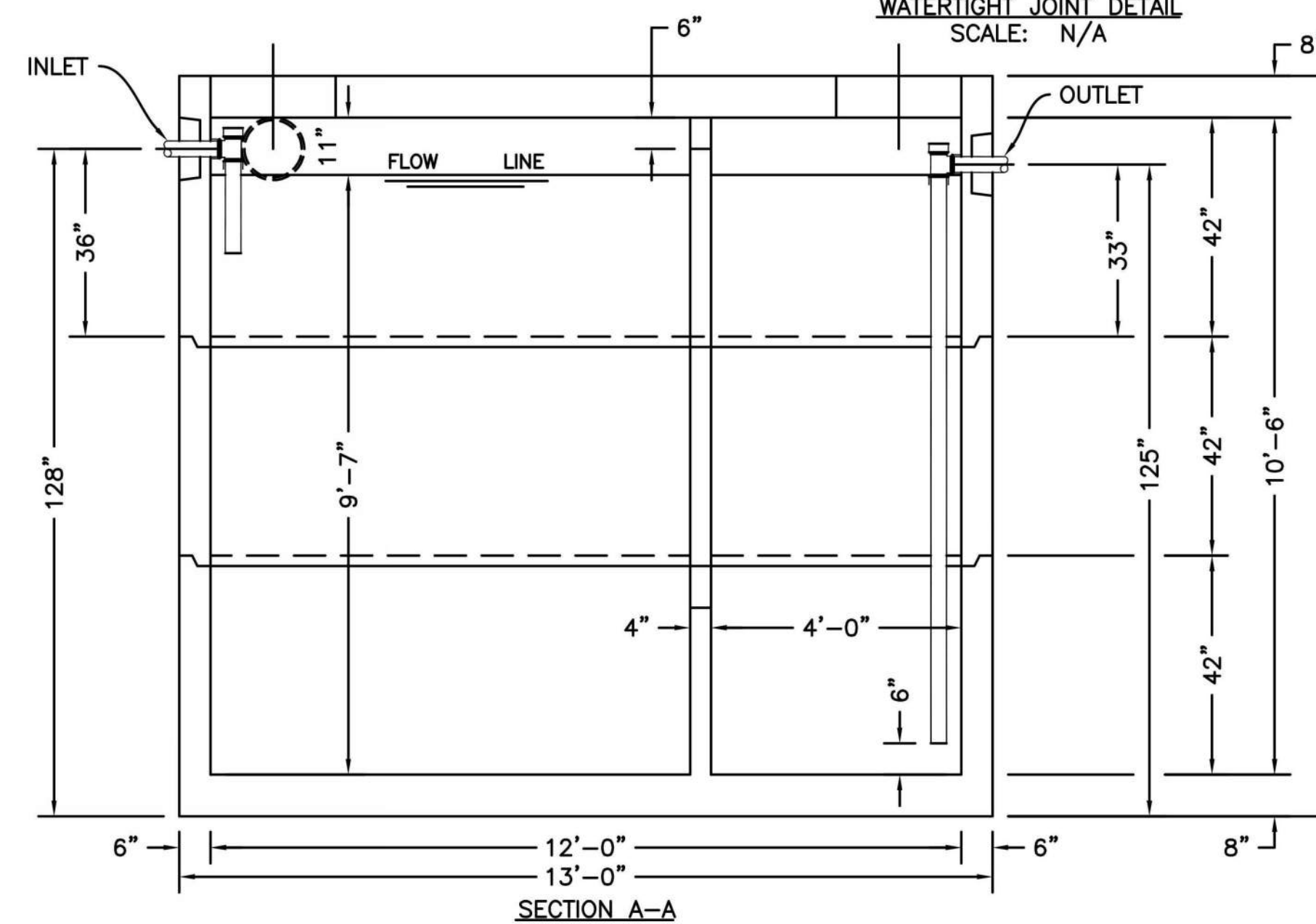
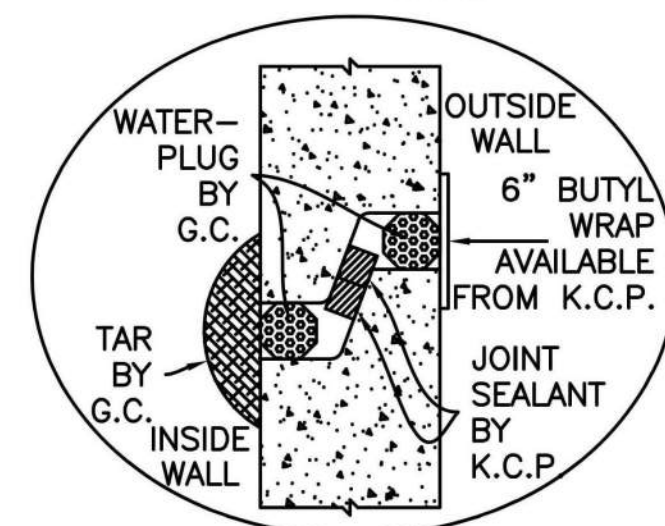
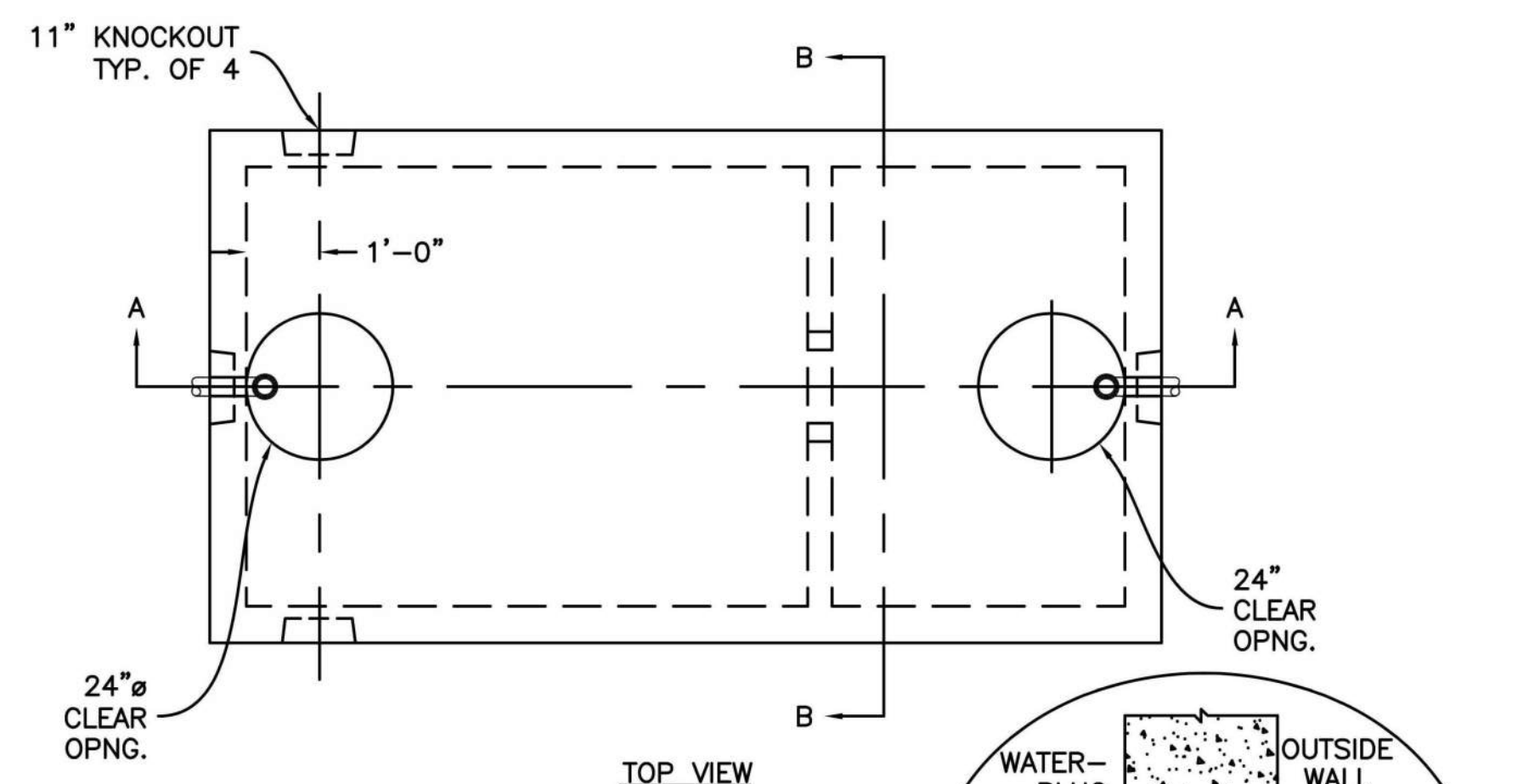
ENGINEER SEAL

ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
CONSTRUCTION
DETAILS

JOB #: P1L28950
DATE: 02/10/20
SCALE: NTS
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SHEET NO.
C8.2



OIL WATER SEPARATOR DETAIL
NTS

SP-7A
SPECIFICATIONS:
 CONCRETE: 5,000 P.S.I. @ 28 DAYS.
 ENTRAINED AIR: 5% - 8%.
 STEEL: A.S.T.M. A496-A615 GRADE 60-80 KSI.
DESIGN LOADING: ACI 318-99 TRAFFIC. USE ACI LOAD FACTORS. A.A.S.H.T.O. METHOD OF DESIGN. EQUIVALENT SOIL PRESSURE OF 40 (PCF).

LIVE LOAD: H2O.
EARTH FILL: 0 TO 4'.
WATER TABLE: 3' BELOW GRADE.

WEIGHT:
 TOP SECTION: 20,704 LBS.
 MID-SECTION: 11,935 LBS.
 BOTTOM SECTION: 22,000 LBS.
 TOTAL: 54,639 LBS.

PIPING: TEES, DROP LEGS & FITTINGS SUPPLIED AND INSTALLED BY G.C.

WATERTIGHT ASSEMBLY IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ASK FOR KISTNER "WATERTIGHT JOINT INSTALLATION" DETAIL.

- PIPE OPENINGS STOCK:**
- PIPE SEALS REQUIRED
 - 4" PVC - OPENING WITH SEAL - STOCK
 - 6" PVC - OPENING STOCK - SEAL TO BE INSTALLED
 - 8" PVC - OPENING STOCK - SEAL TO BE INSTALLED
 - GROUTED OPENINGS ONLY - REQUIRED
 - 4" PVC - OPENING WITH SEAL - STOCK
 - 6" PVC - STOCK KNOCKOUT TO BE BROKEN OUT BY CONTRACTOR
 - 8" PVC - STOCK KNOCKOUT TO BE BROKEN OUT BY CONTRACTOR



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SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA
 01566

ENGINEER SEAL

 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 CONSTRUCTION
 DETAILS

JOB #: PIL 28950
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C8.3

GENERAL STRUCTURAL NOTES

DESIGN AND LOADING

- THE STRUCTURAL DESIGN OF THIS BUILDING WAS BASED ON THE DESIGN CRITERIA:
 - BUILDING CODE: **2015 IBC W/ CMR 780 9TH EDITION MA AMENDMENTS**
 - WIND:
 - BASIC WIND SPEED: 130 MPH (3-SECOND GUST ULTIMATE)
 - IMPORTANCE FACTOR: 1.00
 - BUILDING OCCUPANCY CATEGORY: II
 - WIND EXPOSURE: B
 - PRESSURES PER ASCE7
 - SEISMIC:
 - OCCUPANCY CATEGORY: II
 - IMPORTANCE FACTOR: 1.00
 - SITE CLASS: D
 - Ss = 0.172g, S1 = 0.064g
 - Sds = 0.184, Sd1 = 0.103
 - DESIGN CATEGORY: B

RETAINING WALL NOTES

- FOOTINGS SHALL BEAR ON RESIDUAL SOILS OR STRUCTURAL FILLS WITH AN ALLOWABLE BEARING PRESSURE AS RECOMMENDED BY A GEOTECHNICAL ENGINEER. THE RETAINING WALLS HAVE BEEN DESIGNED USING AN ASSUMED BEARING PRESSURE OF 1500PSF AND PASSIVE SOIL PRESSURE OF 40PSF FOR ALL WALL GEOMETRY WITH ALLOWABLE BEARING INCREASE OF ONE-THIRD FOR WIND AND SEISMIC FORCES. DRAWINGS AND DETAILS WILL BE REVISED ONCE A GEOTECHNICAL INVESTIGATION REPORT AND RECOMMENDATIONS ARE MADE AVAILABLE.
- ALL FOOTING BOTTOMS ARE TO BE INSPECTED AND APPROVED BY A QUALIFIED ENGINEER, PRIOR TO THE PLACEMENT OF CONCRETE.
- ALL FILL MATERIALS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.
- PLACE FILL IN HORIZONTAL LAYERS NOT TO EXCEED 8.0 INCHES IN DEPTH, WHERE FILL IS COMPACTED WITH HAND OPERATED EQUIPMENT, FILL LIFT HEIGHTS SHALL NOT EXCEED 4.0 INCHES.
- THE MOISTURE CONTENT OF THE FILL SHALL BE WITHIN 3% OF THE OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.
- STRUCTURAL FILL SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE STANDARD PROCTOR DRY DENSITY.
- CONTRACTOR RESPONSIBLE FOR SHORING WALL & SOIL DURING EXCAVATION & CONSTRUCTION.
- SEE SITE PLAN FOR ELEVATIONS.
- STEP FOOTING AS REQUIRED. MAINTAIN 1'-0" MIN. BETWEEN TOP OF PAVEMENT OR GRADE & TOP OF TOE.

CONCRETE AND REINFORCING

- ALL CONCRETE SHALL BE IN ACCORDANCE WITH THE "AMERICAN CONCRETE INSTITUTE BUILDING CODE" (ACI 318) AND WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301) LATEST EDITIONS.
- ALL NORMAL WEIGHT CONCRETE (145 PCF) SHALL OBTAIN A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI.
- ALL CONCRETE SUBJECT TO EXTERIOR EXPOSURE SHALL BE AIR ENTRAINED AS RECOMMENDED BY ACI 318.
- TEST CYLINDERS SHALL BE MADE AND TESTED AS OUTLINED IN CHAPTER 16 OF ACI-301.
- REINFORCING BARS SHALL BE DEFORMED BARS OF NEW BILLET STEEL CONFORMING TO ASTM A-615, GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH ACI STANDARD 315 AND 315R.
- PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCEMENT AT POSITIONS SHOWN ON THE PLANS AND DETAILS. PLASTIC COATED ACCESSORIES SHALL BE USED IN ALL EXPOSED CONCRETE WORK.
- THE GENERAL CONTRACTOR SHALL CHECK WITH ARCHITECTURAL, MECHANICAL, CIVIL AND ELECTRICAL DRAWINGS AND THE SUB-CONTRACTORS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, INSERTS, SLAB DEPRESSIONS AND OTHER ITEMS RELATED TO THE CONCRETE WORK AND SHALL ASSUME RESPONSIBILITY FOR THEIR PROPER LOCATION.

SHOP DRAWINGS

- SHOP DRAWING SUBMITTALS SHALL CONSIST OF A MINIMUM OF 2 REPRODUCIBLES OF EACH DRAWING.
- SHOP DRAWINGS SHALL BE REVIEWED BY CONTRACTOR TO VERIFY THAT SUBMITTAL IS COMPLETE PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
- DRAWINGS CREATED BY THE ENGINEER OF RECORD CANNOT BE REPRODUCED AND/OR USED AS A SHOP DRAWING SUBMITTAL. SHOP DRAWING SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - CONCRETE MIX DESIGN
 - FOUNDATION REINFORCING BARS

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1704 OF IBC AND THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED UNDER SECTION 1704. THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED 2009 IBC SECTIONS/LOCATIONS:
 - SOILS - SECTION 1705.6 PER TABLE 1705.6
 - CONCRETE - SECTION 1705.3 PER TABLE 1705.3
 - MASONRY - SECTION 1705.4

MISCELLANEOUS

- ALL DIMENSIONS ON STRUCTURAL DRAWINGS TO BE CHECKED AGAINST CIVIL, ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS BY THE GENERAL CONTRACTOR AND ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT IMMEDIATELY.
- THE CONTRACTOR SHALL ASSUME RESPONSIBILITY, UNRELIEVED BY REVIEW OF SHOP DRAWINGS OR PERIODIC OBSERVATION OF CONSTRUCTION, FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS, FOR FABRICATION PROCESSES AND CONSTRUCTION TECHNIQUES, AND FOR SAFE CONDITIONS ON THE JOB SITE.
- DO NOT SCALE THE DRAWINGS.

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 1705 OF THE 2015 INTERNATIONAL BUILDING CODE
- THE OWNER WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE REQUIRED SPECIAL INSPECTION ITEMS.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:
 - THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.
 - THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL-OF-RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL-OF-RECORD, UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.
 - THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.
- STRUCTURAL OBSERVATION (AS DEFINED IN CHAPTER 17 OF THE BUILDING CODE) IS NOT REQUIRED, UNLESS SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.
- THE FOLLOWING AREAS OF WORK REQUIRE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE LISTED SECTIONS/LOCATIONS:
 - SOILS - SECTION 1705.6 PER TABLE 1705.6

SPECIAL INSPECTION AND VERIFICATION OF SOILS				
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC REFERENCE
Y	1. VERIFY MATERIALS BELOW SHALLOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	----	X	1705.6
Y	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	----	X	1705.6
Y	3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	----	X	1705.6
Y	4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	X	----	1705.6
Y	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	----	X	1705.6

B. CONCRETE CONSTRUCTION - SECTION 1705.3 PER TABLE 1705.3

SPECIAL INSPECTION AND VERIFICATION OF CONCRETE CONSTRUCTION					
SPECIAL INSPECTION REQUIRED Y/N	VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA	
		CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	IBC SECTION	REFERENCED STANDARD
Y	1. INSPECTION OF REINFORCING STEEL, INCLUDING PRE-STRESSING TENDONS AND VERIFY PLACEMENT.	----	X	1908.4	ACI 318: CH. 20, 25.2, 25.3, 26.5.1-26.5.3
N	2. REINFORCING BAR WELDING				
-	a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;	----	X	----	AWS D1.4 ACI 318: 26.5.4
-	b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16	----	X	----	
-	c. INSPECT OTHERS WELDS	X	----	----	
Y	3. INSPECTION OF ANCHORS CAST IN CONCRETE	----	X	----	ACI318: 17.8.2
Y	4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS				
N	a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	----	----	ACI 318: 17.8.2.4
Y	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4a.	----	X	----	ACI 318: 17.8.2
Y	5. VERIFYING USE OF REQUIRED DESIGN MIX.	----	X	1904.1, 1904.2, 1908.2, 1408.3	ACI 318: CH. 19, 26.4.3, 26.4.4
Y	6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	----	1910.10	ASTM C 172 ASTM C 31 ACI 318: 26.4.5, 26.12
Y	7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	----	1908.6, 1908.7, 1908.8	ACI 318: 26.4.5
Y	8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	----	X	1910.9	ACI 318: 26.4.7-26.4.9
N	9. INSPECTION OF PRESTRESSED CONCRETE:				
-	a. APPLICATION OF PRESTRESSING FORCES.	X	----	----	ACI 318: 26.9.2.1 ACI 318: 26.9.2.3
-	b. GROUTING OF BONDED PRESTRESSING TENDONS	X	----	----	
N	10. ERECTION OF PRECAST (TILT UP PANELS) CONCRETE MEMBERS.	----	X	----	ACI 318: CH. 26.8
N	11. VERIFICATION OF IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORING AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	----	X	----	ACI 318: 26.10.2
Y	12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	----	X	----	ACI 318: 26.10.1(b)



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CLIENT



PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN
37909



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REV	DATE	COMMENT	BY

DOCUMENT SITE PLAN APPROVAL

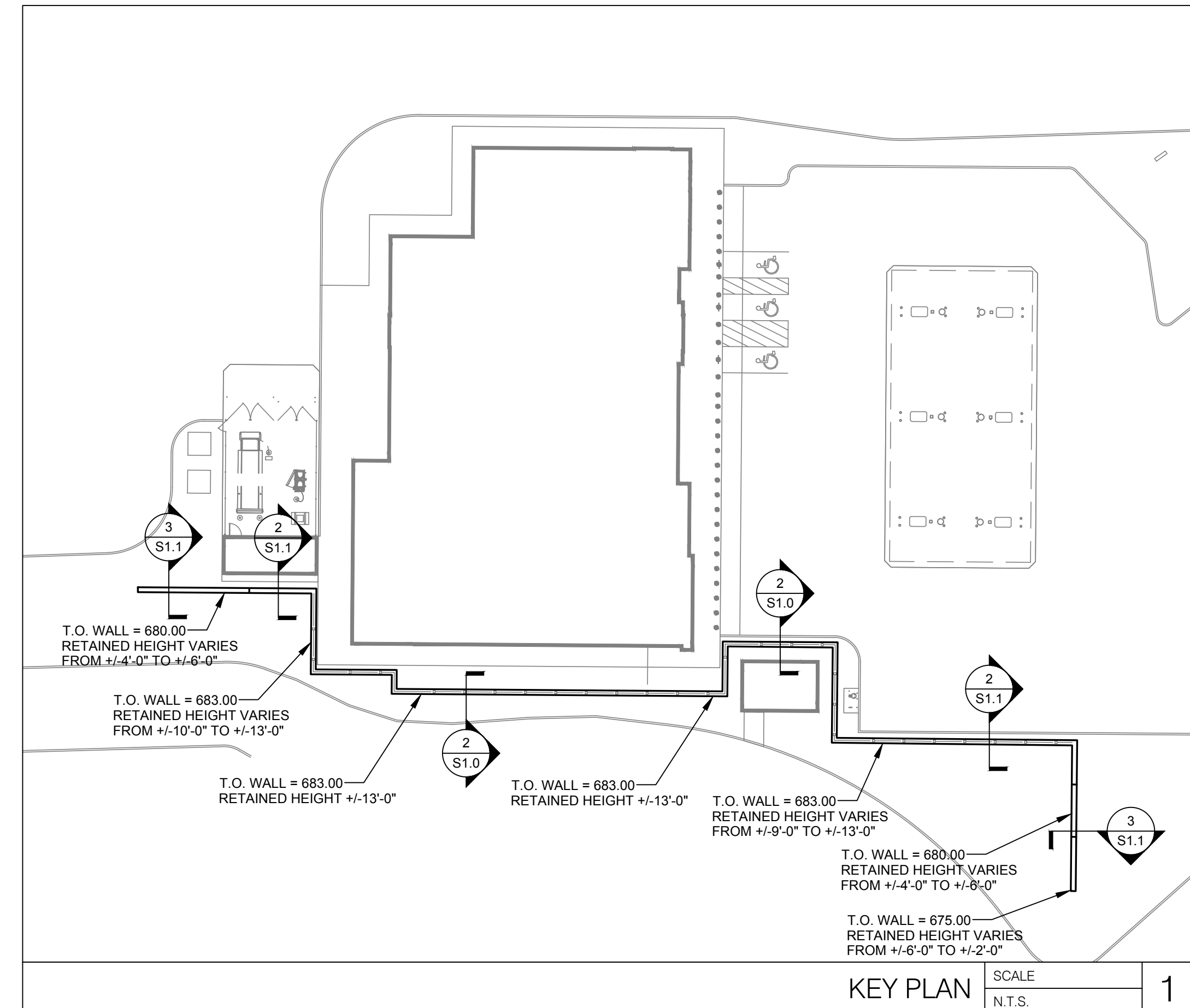
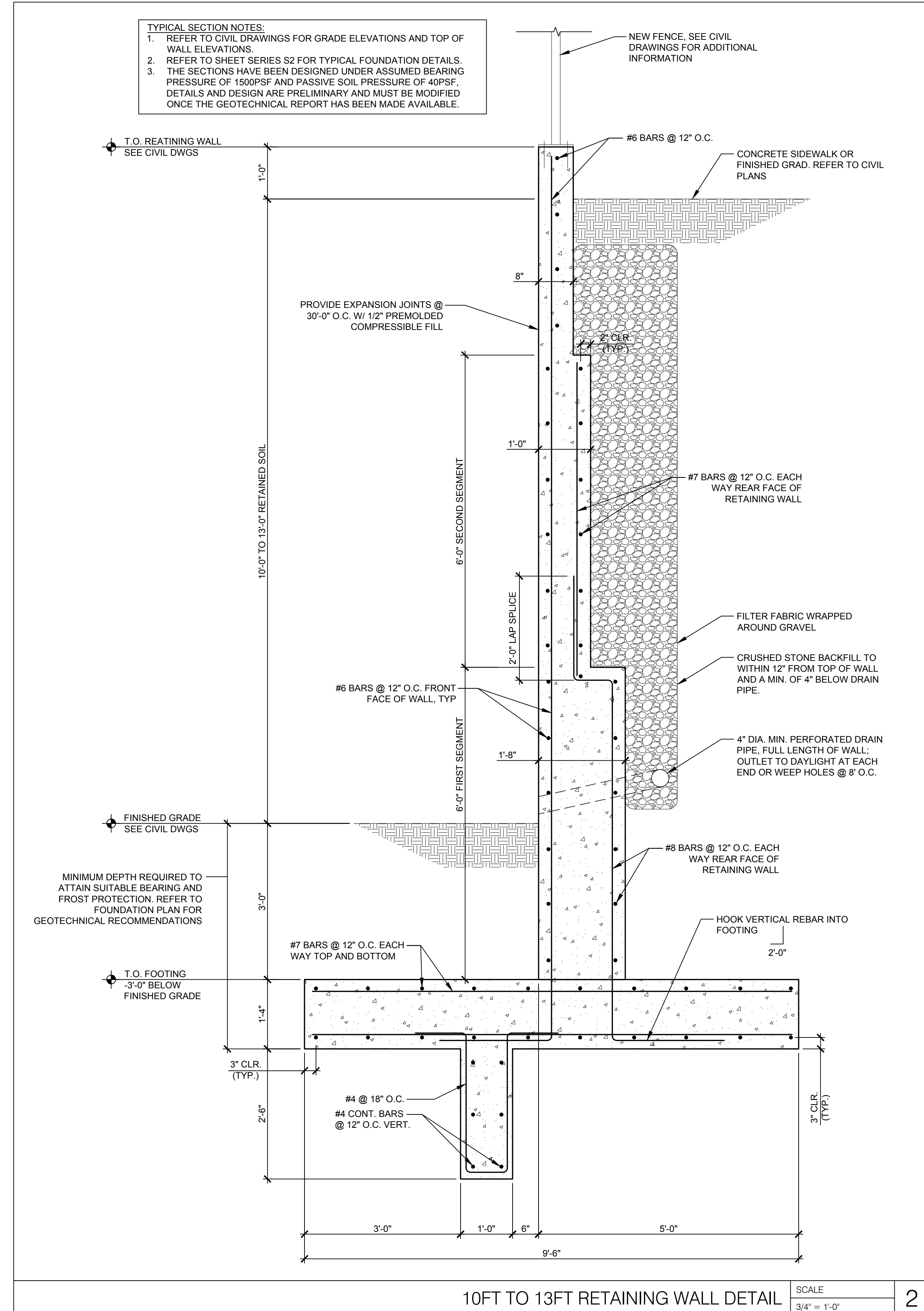
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

SHEET TITLE
STRUCTURAL NOTES

JOB #: P1L_28950
DATE: 02/10/20
SCALE:
DRAWN BY: ERS
CHECKED BY: DAB

SHEET NO.
S0.0



CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATERTOWN, MA 02472
 PHONE (617) 576-0007
 INFO@CORE-STATES.COM

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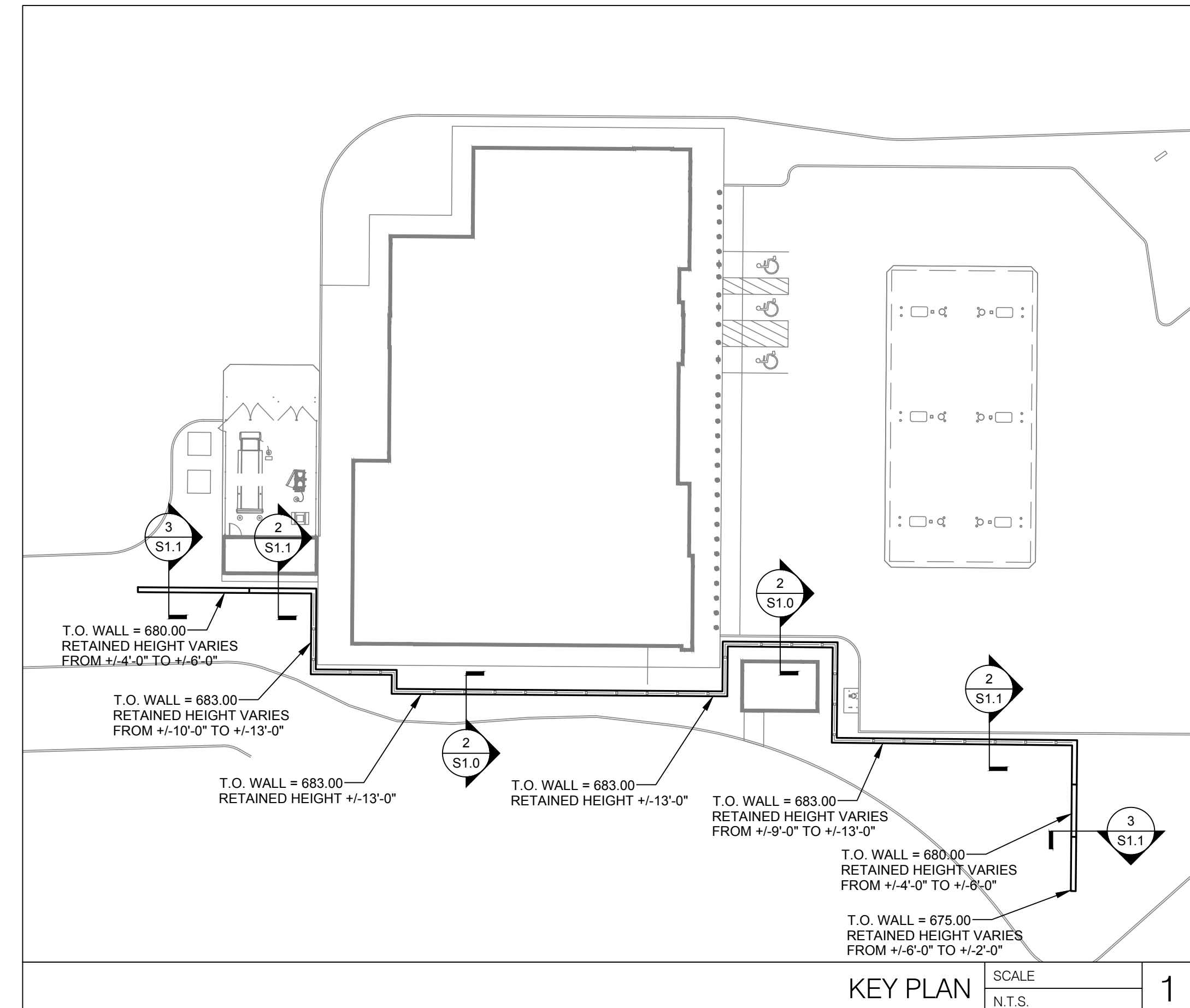
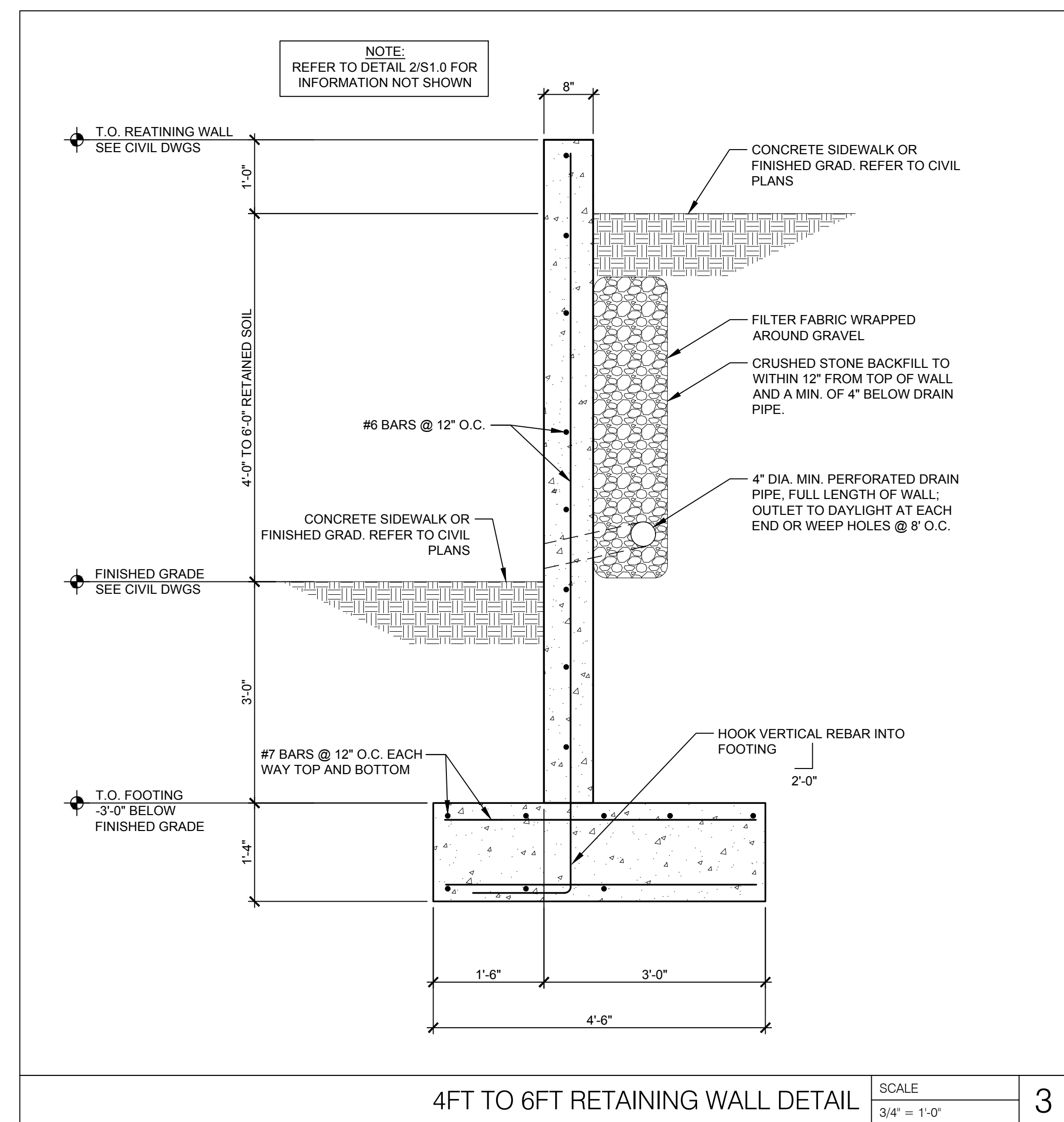
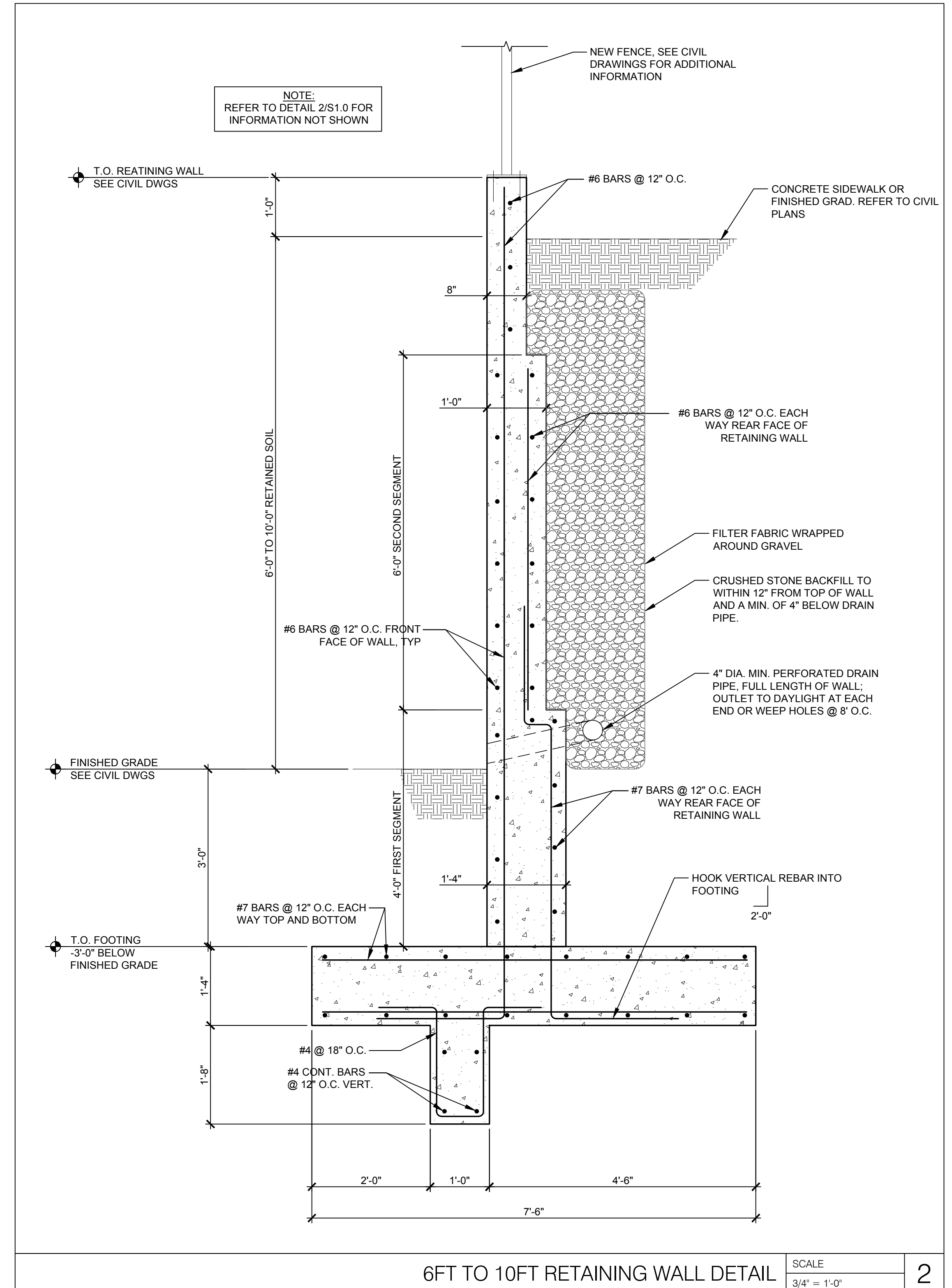
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ENGINEER SEAL

SHEET TITLE
RETAINING WALL DETAILS I

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WATER TOWN, MA 02472
PHONE (617) 376-0007
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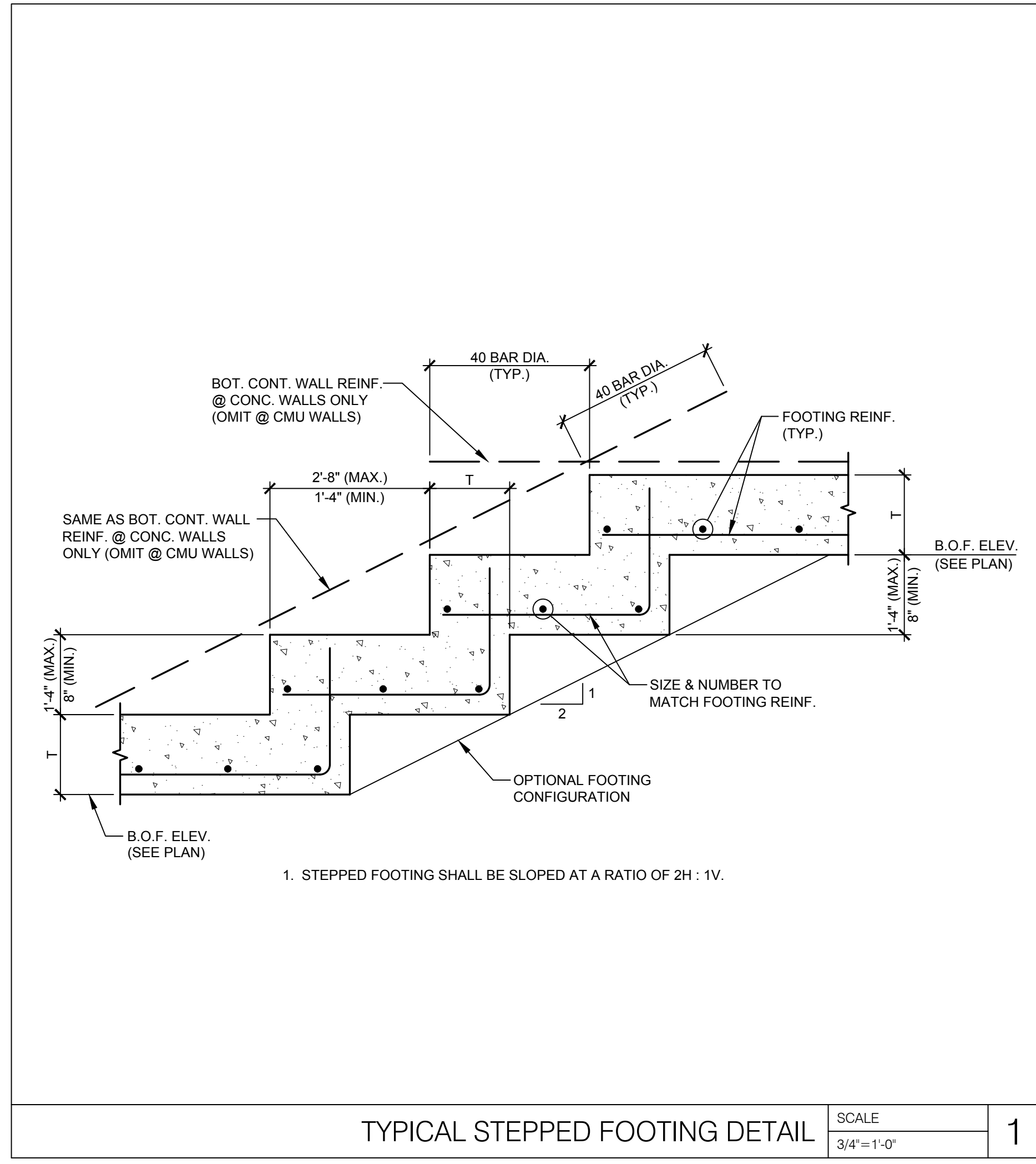
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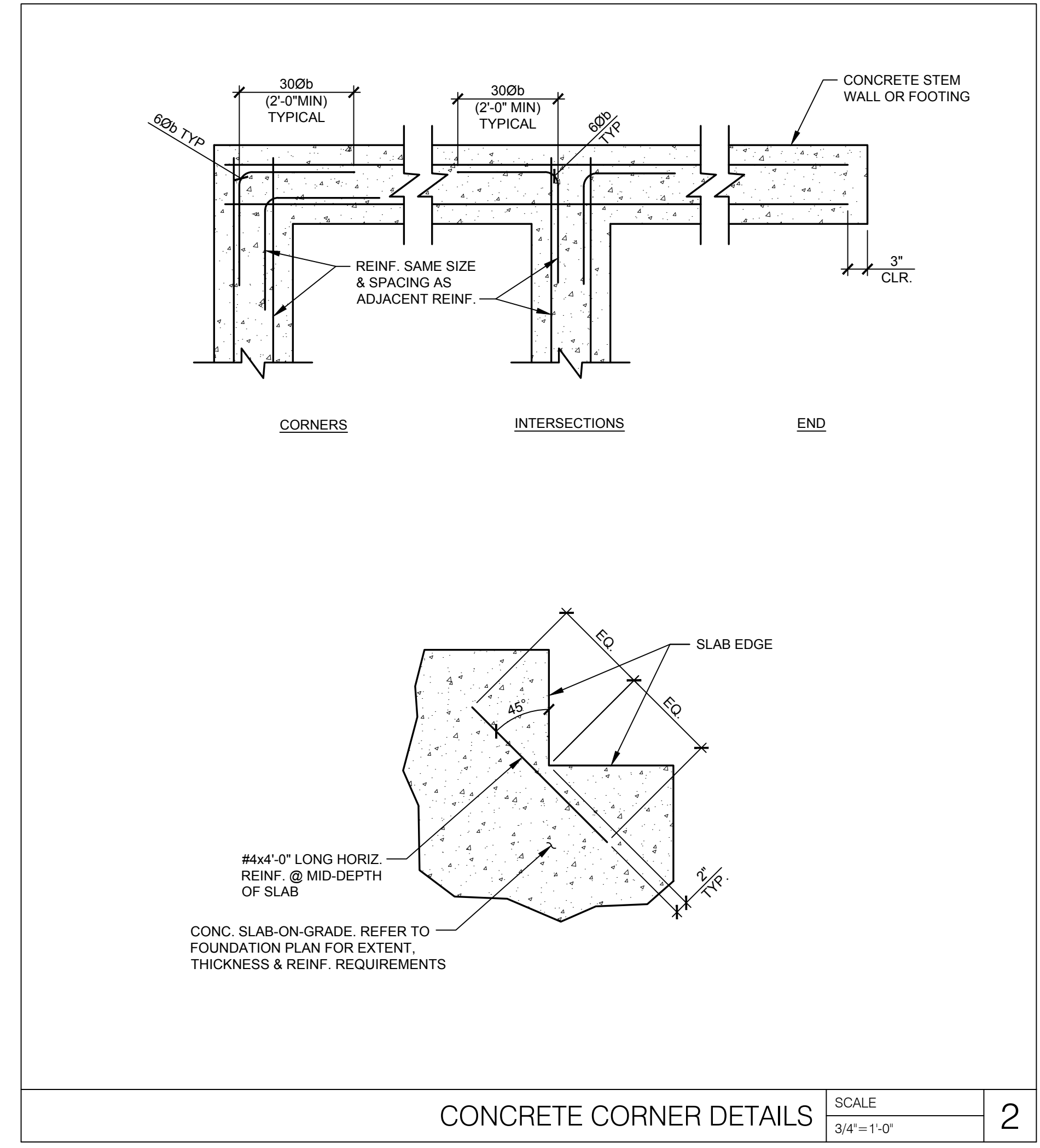
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DETAILS II

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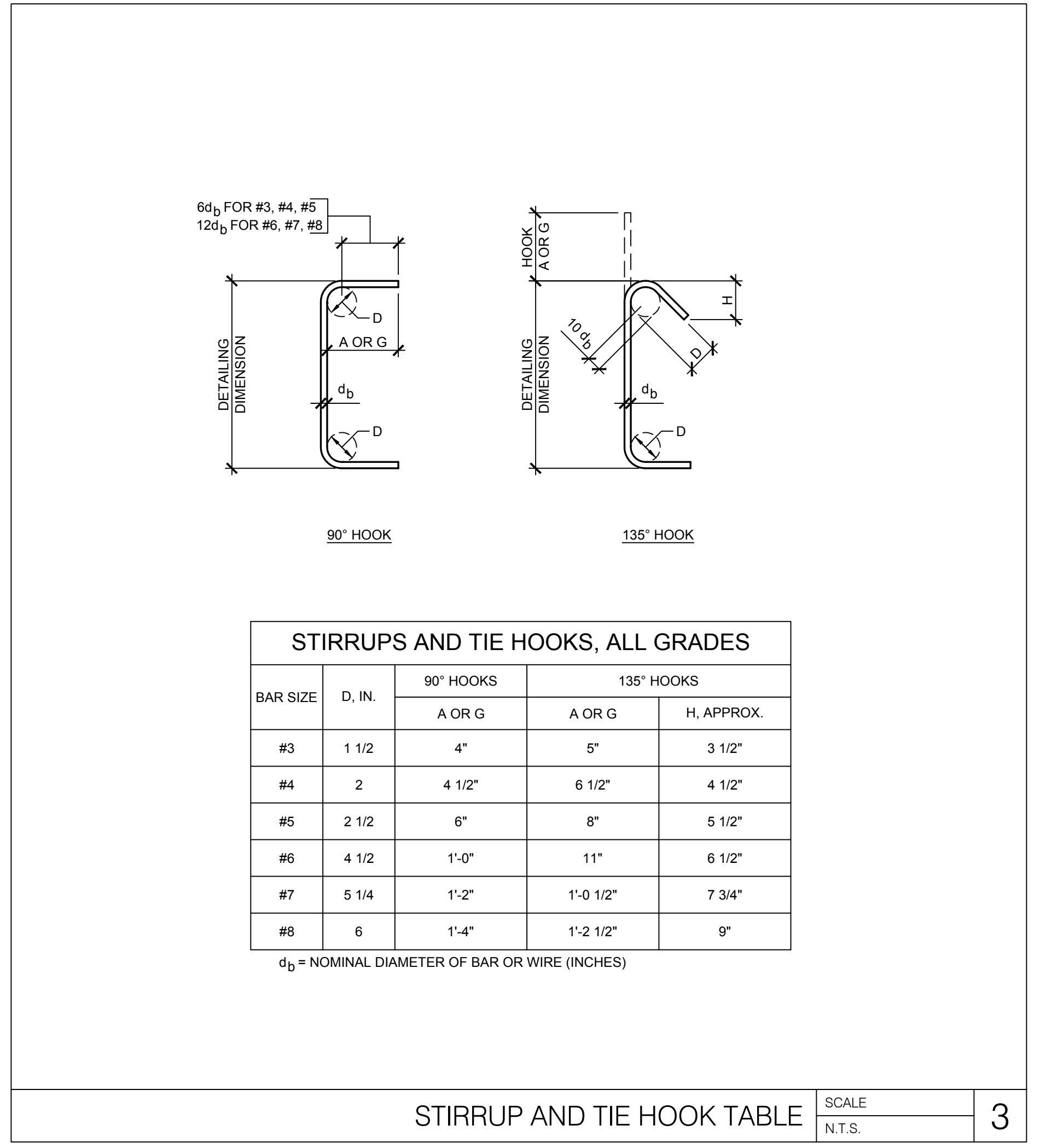
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TYPICAL STEPPED FOOTING DETAIL SCALE 3/4"=1'-0" 1



CONCRETE CORNER DETAILS SCALE 3/4"=1'-0" 2



STIRRUP AND TIE HOOK TABLE SCALE N.T.S. 3

BAR SIZE	LAP CLASS	TENSION LAP SPLICES				COMPRESSION LAP SPLICES
		LAP LENGTH PER SPACING AND COVER CASE				
		CASE 1		CASE 2		
		TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	
#3	B	24	19	36	28	12
#4	B	32	25	48	37	15
#5	B	40	31	60	47	19
#6	B	48	37	72	56	23
#7	B	70	54	106	81	26
#8	B	80	62	121	93	30
#9	B	91	70	136	105	34
#10	B	102	79	153	118	38
#11	B	113	87	170	131	42

NOTES:
 1. UTILIZE A FACTOR OF 1.5 WHERE CONTACT SPLICES ARE REQUIRED.
 2. TABLE APPLIES TO CONCRETE WITH $f_c = 4000$ PSI OR GREATER.
 3. CASE 1: COVER AT LEAST $10b$ AND CENTER-TO-CENTER SPACING AT LEAST $20b$.
 4. CASE 2: COVER LESS THAN $10b$ AND CENTER-TO-CENTER SPACING AT LESS THAN $20b$.

LAP SPLICE TABLE SCALE NONE 4

THE MINIMUM CLEAR COVER FOR REINFORCEMENT BARS SHALL BE ONE BAR DIAMETER OR THE VALUES TABULATED BELOW, WHICHEVER IS THE GREATER.

SLABS (LT.WT. CONC. OR STONE CONC.)	1"
SLABS NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	3/4"
GIRDERS AND BEAMS (TO STIRRUPS)	1 1/2"
JOISTS (STONE OR LT.WT.) BOTTOM BARS	1 1/4"
TIED COLUMNS AND PIERS	
SURFACE EXPOSED TO EARTH AND WEATHER (TO TIES)	2"
OTHER SURFACES (TO TIES)	1 1/2"
FOUNDATION ELEMENTS	
FORMED SURFACES	2"
SURFACES PLACED AGAINST EARTH	3"
WALLS	
SURFACES EXPOSED TO EARTH	2"
SURFACES EXPOSED TO WEATHER	1 1/2"
OTHER SURFACES	1"

MINIMUM CONCRETE COVER TABLE SCALE 3/4"=1'-0" 5

NOT USED

NOT USED SCALE N.T.S. 6

CORE STATES GROUP
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 WATER TOWN, MA 02472
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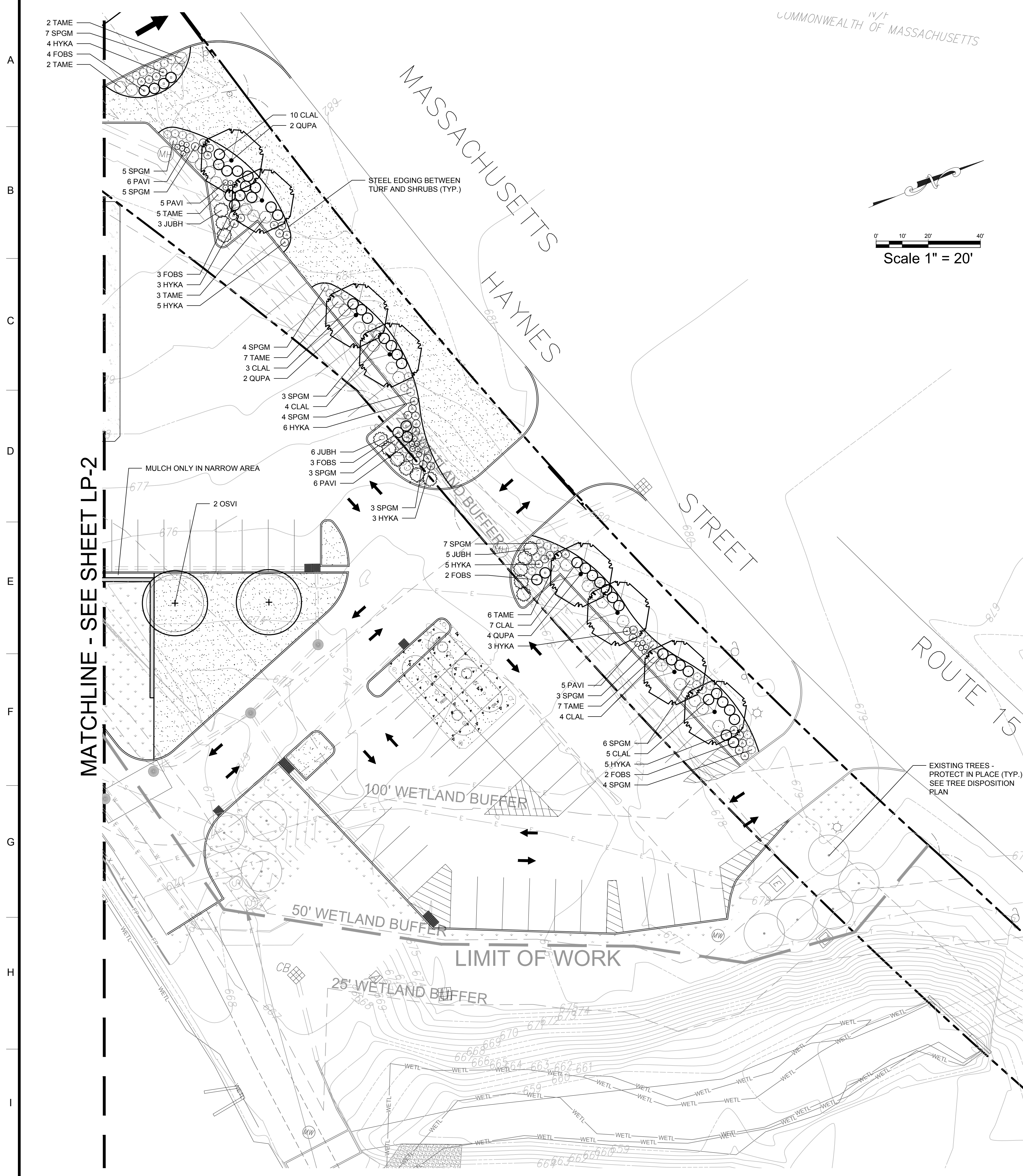
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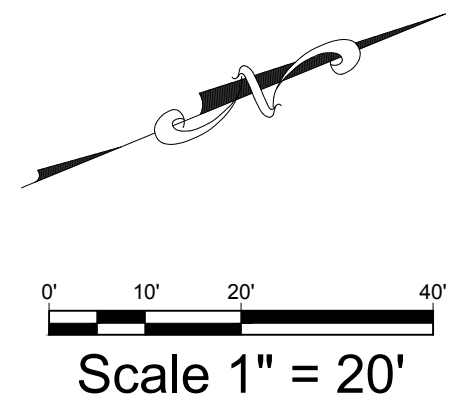
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TYPICAL DETAILS
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S2.0



COMMONWEALTH OF MASSACHUSETTS



PLANTING LEGEND

SYMBOL	BOTANIC NAME	COMMON NAME	MIN. SIZE	SPACING	QUANTITY	REMARKS
TREES						
AMCA	Amelanchier canadensis	Serviceberry	2" cal., 8'-10' high	Per plan	1	Multitrunk, 3-5 canes
OSVI	Ostrya virginiana	Hop Hornbeam	2" cal., 8'-10' high	Per plan	2	
QUPA	Quercus palustris	Pin Oak	2" cal., 8'-10' high	Per plan	8	

NOTE: ALL TREES SHALL BE B&B, ROOTBALL SIZE AS APPROPRIATE FOR THE CALIPER SPECIFIED. SEE SPECIFICATIONS FOR PROPER ROOT QUALITY.

SHRUBS AND ORNAMENTAL GRASSES

CLAL	Clethra alnifolia 'Hummingbird'	Hummingbird Summersweet	#5 cont.	4' o.c.	33	
FOBS	Fothergilla x major 'Blue Shadow'	Blue Shadow Fothergilla	#5 cont.	4' o.c.	25	
HYKA	Hypericum kalmianum	Kalm's St. Johnswort	#5 cont.	3' o.c.	73	
JUBH	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Juniper	#5 cont.	5' o.c.	19	
PAVI	Panicum virgatum 'Heavy Metal'	Heavy Metal Switchgrass	#3 cont.	2' o.c.	29	
SPGM	Spiraea japonica 'Goldmound'	Goldmound Spiraea	#5 cont.	3' o.c.	63	
TAME	Taxus media 'Densiformis'	Densi Yew	#5 cont.	5' o.c.	36	

TURF AND SEED

---	Poa pratensis	Kentucky Bluegrass	Sod	---	---	
---	---	NE Roadside Matrix Upland Mix	Hydroseed	---	---	

ALL SEED MIXES ARE AVAILABLE THROUGH NEW ENGLAND WETLAND PLANTS, (413) 548-8000, WWW.NEWP.COM. REFER TO PLANTING SPECIFICATIONS FOR SEEDING METHOD.

LANDSCAPE CALCULATIONS

STREET TREES
 FRONTAGE LENGTH (WITHIN LIMIT OF WORK ONLY): 418 LF
 STREET TREES REQUIRED: 8 TREES (1 PER 50 LF OF FRONTAGE)
 STREET TREES PROVIDED: 8 TREES

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCLOSE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED) IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDED AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

GENERAL GRADING AND PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
 - THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUND COVER PATTERNS) SHALL TAKE PRECEDENCE.
 - NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
 - THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

CORE STATES GROUP

9 GALEN STREET, SUITE 117
 WATERTOWN, MA 02472
 PHONE (617) 576-0007
 AROSCOE@CORE-STATES.COM

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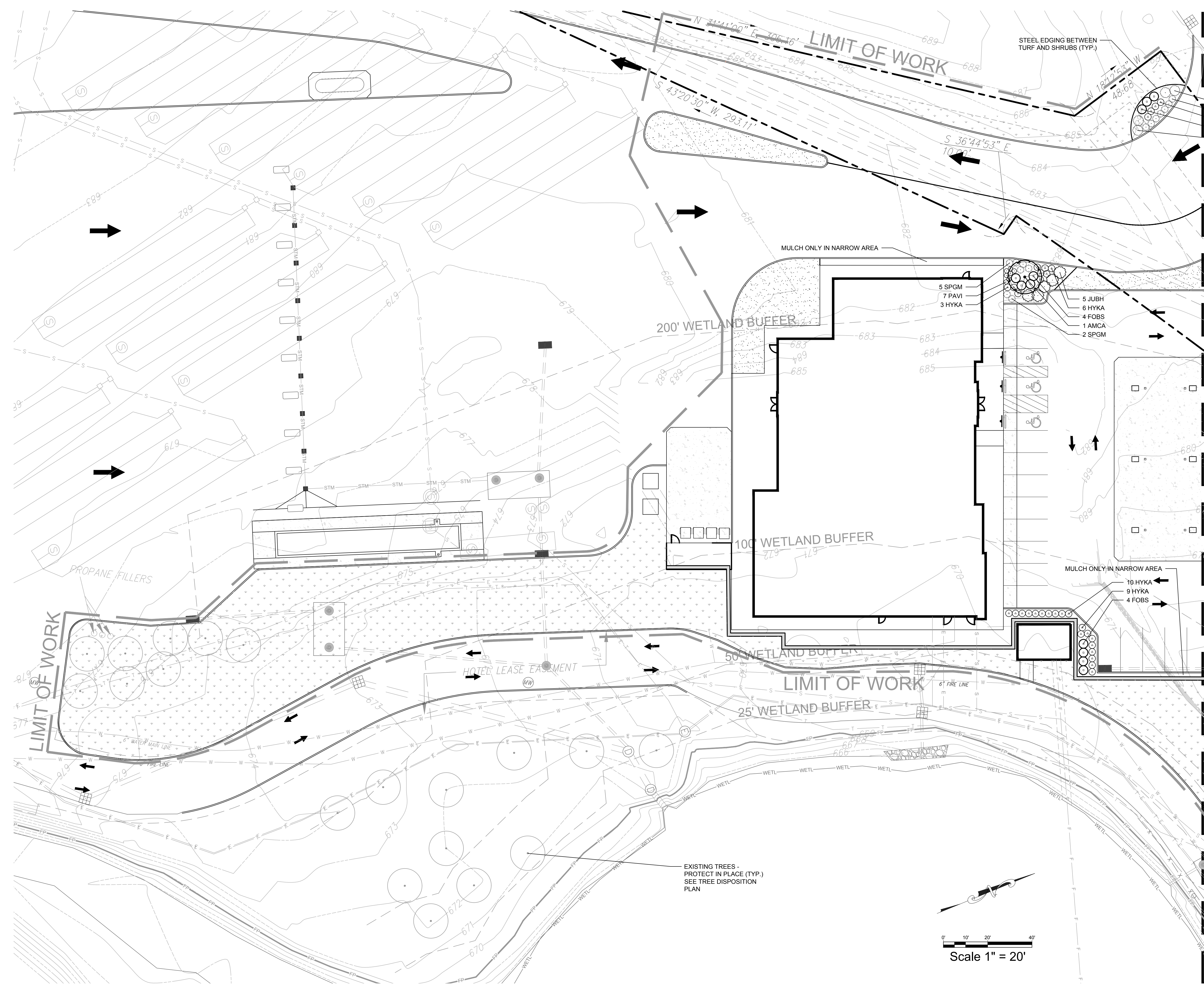
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ENGINEER SEAL

SHEET TITLE
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JOB #:	XXXXXXX
DATE:	XXXXXX
SCALE:	
DRAWN BY:	XXX
CHECKED BY:	XXX
SHEET NO.	LP-1



- 2 TAME
- 7 SPGM
- 4 HYKA
- 3 FOBS
- 2 TAME

STEEL EDGING BETWEEN TURF AND SHRUBS (TYP.)

MULCH ONLY IN NARROW AREA

200' WETLAND BUFFER

100' WETLAND BUFFER

50' WETLAND BUFFER

25' WETLAND BUFFER

MULCH ONLY IN NARROW AREA

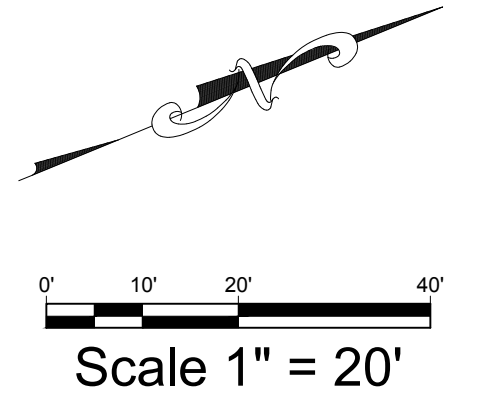
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EXISTING TREES - PROTECT IN PLACE (TYP.) SEE TREE DISPOSITION PLAN



MATCHLINE - SEE SHEET LP-1

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PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR

- 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING... 2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES... 3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.

B. SCOPE OF WORK

- 1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK... 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS... 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW. B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS: 1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014... 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS... 3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND... 4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT... 5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED... 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS... 7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT... 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL... C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS... D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS... E. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL... F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER... G. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS... H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS... I. TREE STAKING AND GUYING: 1. STAKES: 4" LONG GREEN METAL T-POSTS... 2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE... J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE... K. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED.

METHODS

- A. SOIL PREPARATION: 1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE... 2. SOIL TESTING: a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECTS LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY... b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALTY (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT... c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES... d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES... 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS... 4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING: a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 2" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING: i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 SF. ii. PRE-PLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 SF. iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE... b. OPEN LANDSCAPE: i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 SF. ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS PER CU. YD. iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE... iv. IRON SULPHATE - 2 LBS. PER CU. YD... c. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS... d. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE... e. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS... f. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED... g. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES... h. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES... i. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS... j. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS

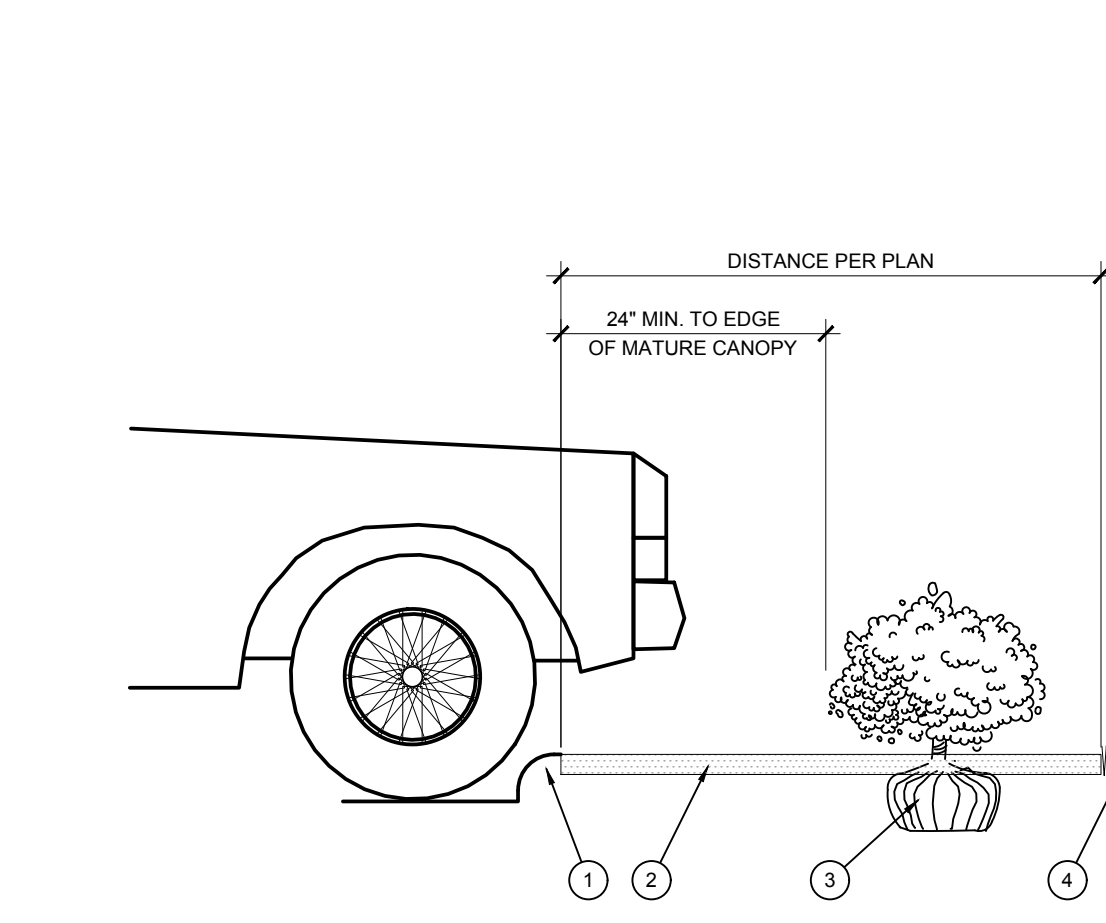
- 1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES... 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE... 3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES... 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING

- 1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS... 2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE... 3. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES... 4. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS... 5. ALTER ALIGNMENT OF PIPES TO AVOID TREE ROOTS... 6. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS... 7. TREE PLANTING: 1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL... 2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE... 3. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS... 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE... 5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL... 6. TREES SHALL NOT BE EXCAVATED OR RELOCATED... 7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN... 8. SHRUB, PERENNIAL, AND GROUND COVER PLANTING: 1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" DEEP... 2. WHEN PLANTING IS COMPLETE, INSTALL MULCH... 9. SODDING: 1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN... 2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING... 3. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING... 10. HYDROSEEDING: 1. SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS: a. GEN. SOD CELLULOSE FIBER MULCH 15# 15-15-15 WATER SOLUBLE FERTILIZER SEED RATE PER LEGEND... 11. SHRUB AND PERENNIAL PLANTING: 1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE... 2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE... 3. CLEAN UP: 1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN... 2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS... 12. INSPECTION AND ACCEPTANCE: 1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN... 2. THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK... 13. LANDSCAPE MAINTENANCE: 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS... 2. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDS, HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS... 3. AFTER THE INITIAL MAINTENANCE PERIOD... 4. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS... 14. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS: 1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDS, HYDROMULCHED AREAS... 2. AFTER THE INITIAL MAINTENANCE PERIOD... 3. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS...

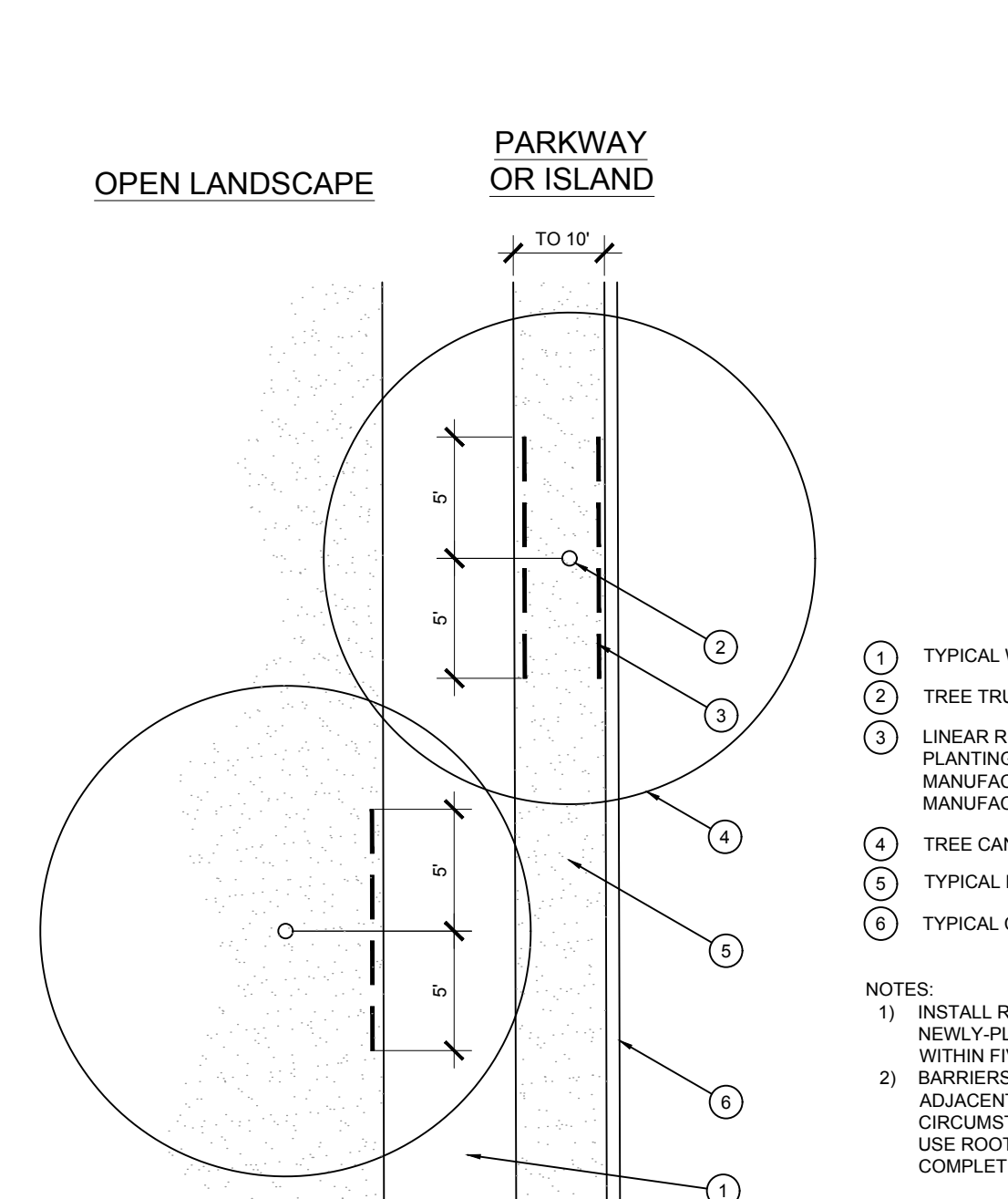
D STEEL EDGING

SCALE: NOT TO SCALE



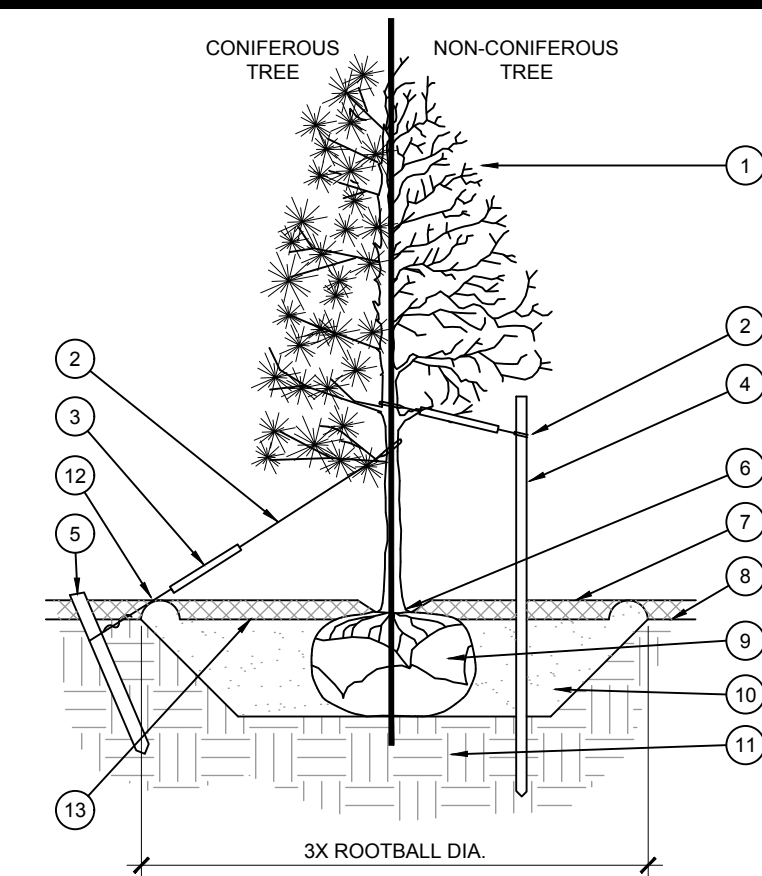
E PLANTING AT PARKING AREA

SCALE: NOT TO SCALE



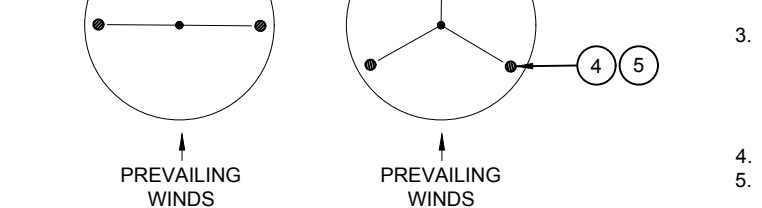
F ROOT BARRIER - PLAN VIEW

SCALE: NOT TO SCALE



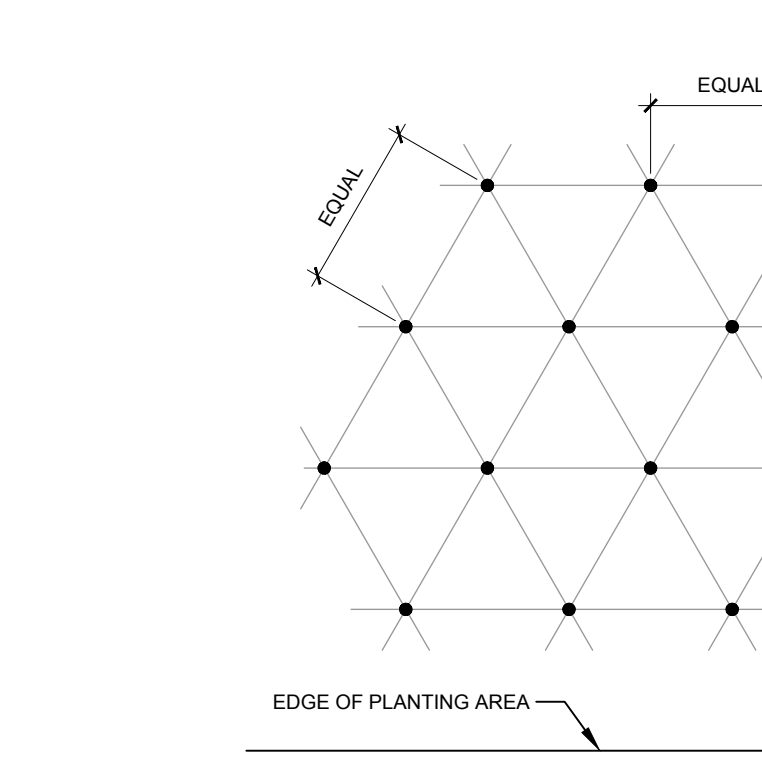
A TREE PLANTING

SCALE: NOT TO SCALE



B SHRUB AND PERENNIAL PLANTING

SCALE: NTS



C PLANT SPACING

SCALE: NTS

Table with columns: PLANT SPACING, AREA DIVIDER, PLANT SPACING, AREA DIVIDER. Rows show spacing from 6" to 15" and corresponding area divider values.

C PLANT SPACING

SCALE: NTS



- 1 TREE CANOPY. 2 CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES. 3 24" X 3/4" P.V.C. MARKERS OVER WIRES. 4 GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL. 5 PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 15" MIN. INTO UNDISTURBED SOIL. 6 TRUNK FLARE. 7 MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK. 8 FINISH GRADE. 9 ROOT BALL. 10 BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS. 11 UNDISTURBED NATIVE SOIL. 12 4" HIGH EARTHEN WATERING BASIN. 13 FINISH GRADE.

- NOTES: 1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE. 2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. 3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. 4. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND. 5. SHRUB, PERENNIAL, OR ORNAMENTAL GRASS. 6. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER. 7. FINISH GRADE. 8. ROOT BALL. 9. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS. 10. UNDISTURBED NATIVE SOIL. 11. 3" HIGH EARTHEN WATERING BASIN.

CORE STATES GROUP logo and address: 9 GALEN STREET, SUITE 117, WATERTOWN, MA 02472, PHONE (617) 576-0007, AROSCOE@CORE-STATES.COM

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CLIENT logo: Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC, 5508 LONAS ROAD, KNOXVILLE, TN 37909

811 logo and slogan: Know what's below. Call before you dig.

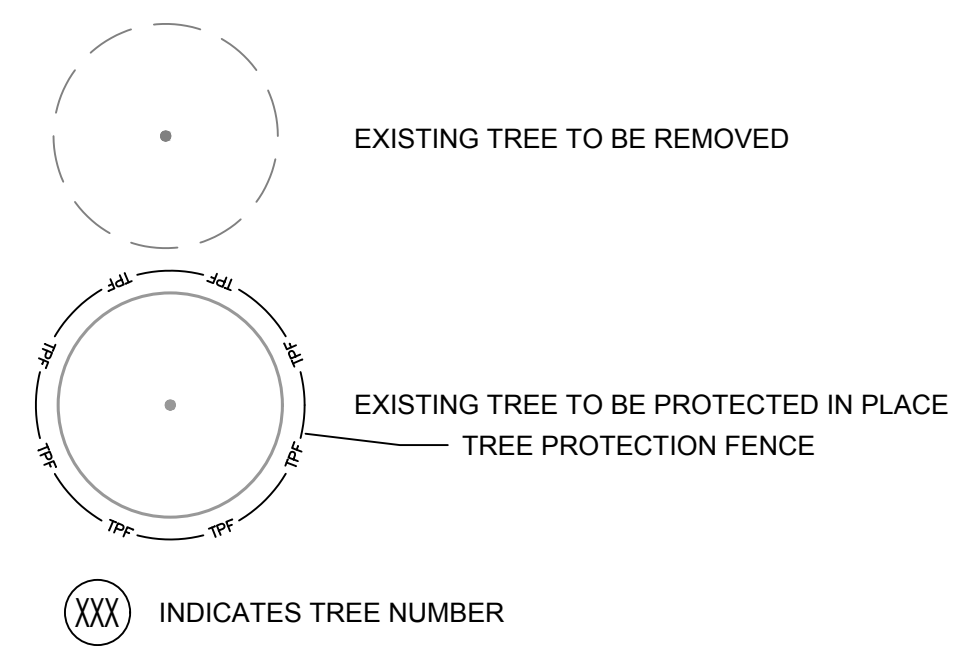
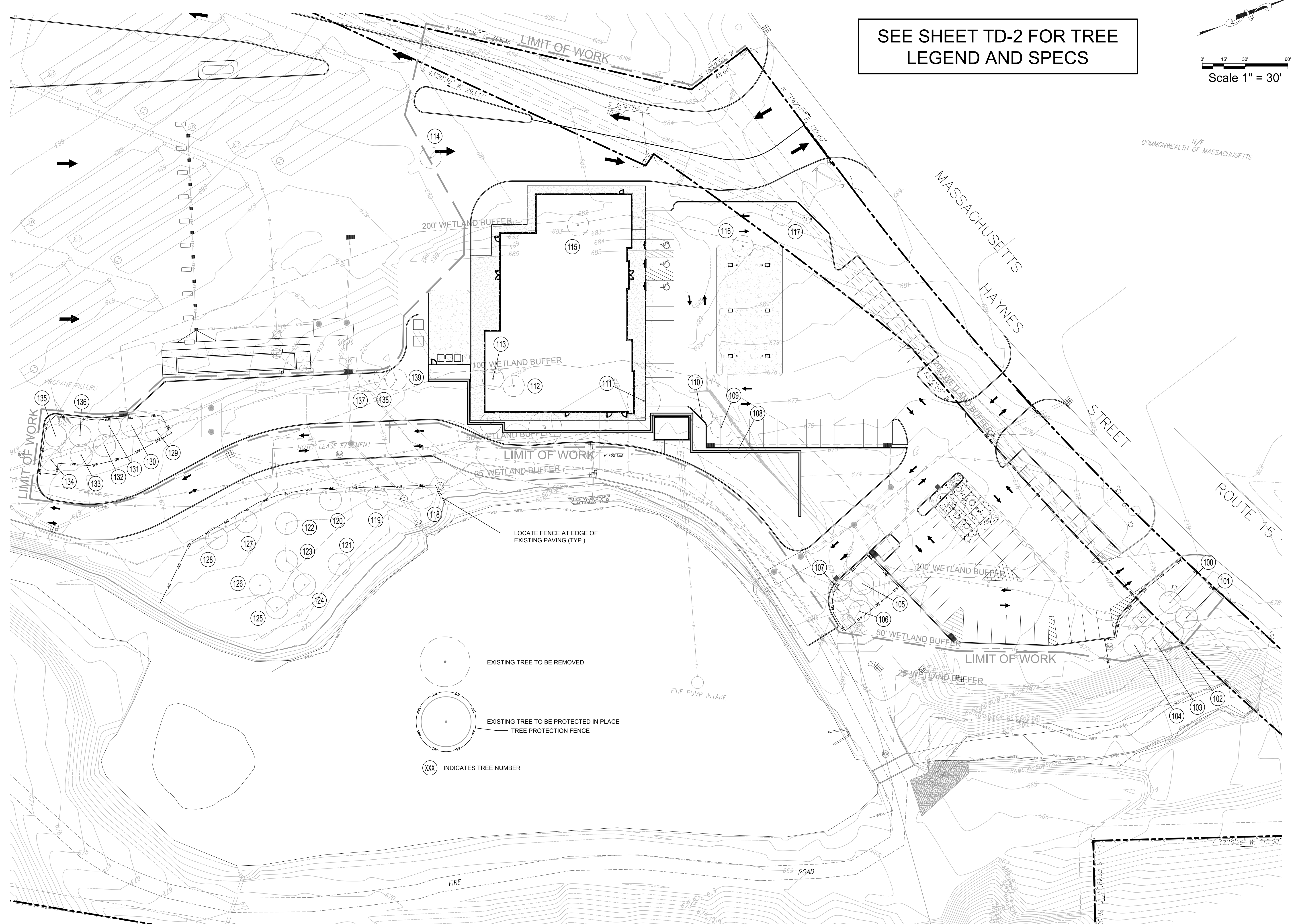
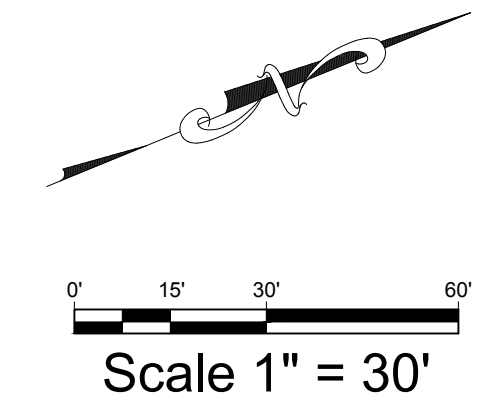
Table with columns: REV, DATE, COMMENT, BY. Includes a 'DOCUMENT' entry.

SITE LOCATION: 400 HAYNES STREET, STURBRIDGE, MA 01566

ENGINEER SEAL section with fields for JOB #, DATE, SCALE, DRAWN BY, CHECKED BY, SHEET NO.

SHEET TITLE: PLANTING DETAILS AND SPECS. LP-3

SEE SHEET TD-2 FOR TREE
LEGEND AND SPECS



CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATERTOWN, MA 02472
 PHONE (617) 576-0077
 AROSCOE@CORE-STATES.COM

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Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS AND FIELD SURVEY. CORE STATES, INC. DOES NOT GUARANTEE THE LOCATION OR DEPTH OF UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF UTILITIES PRIOR TO ANY EXCAVATION WORK.

REV	DATE	COMMENT	BY

DOCUMENT

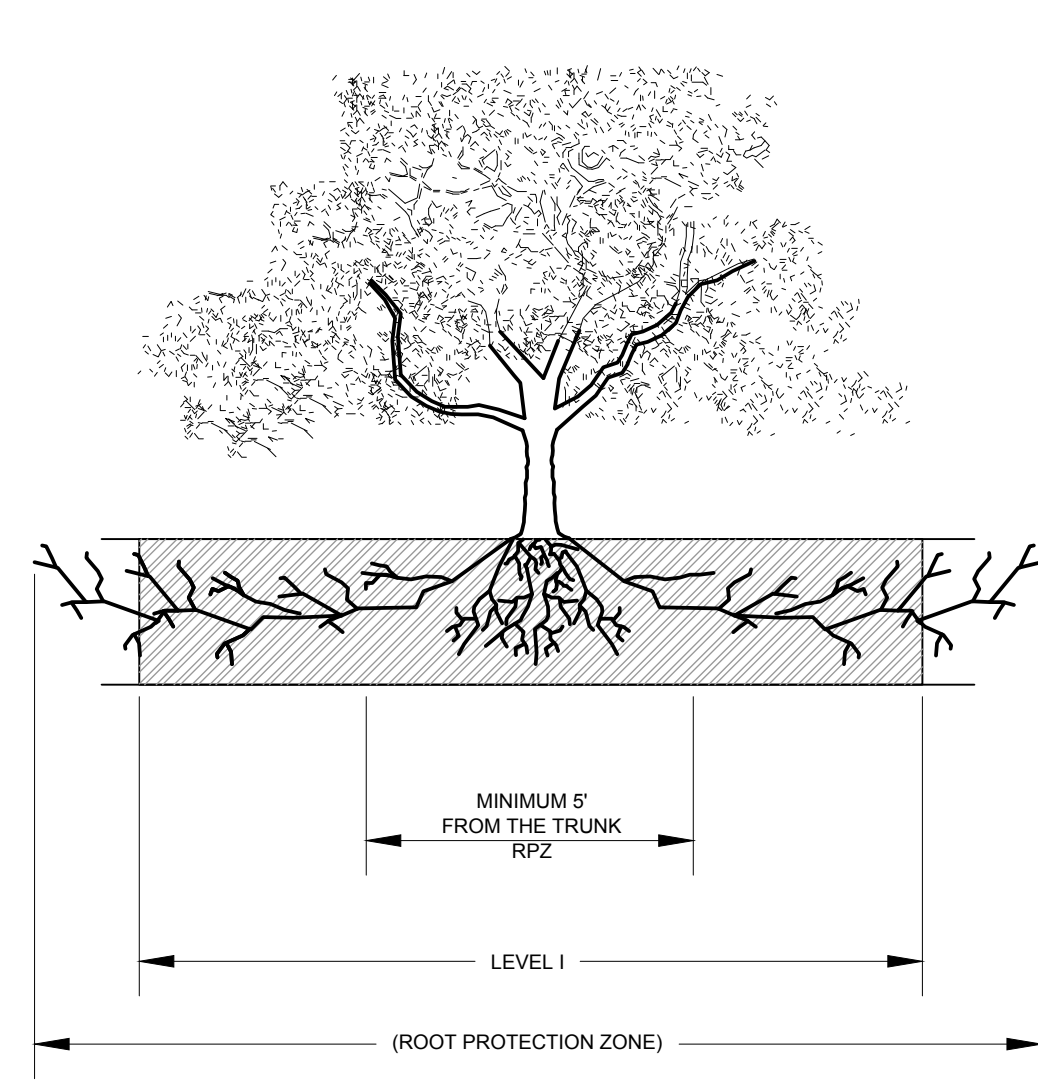
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

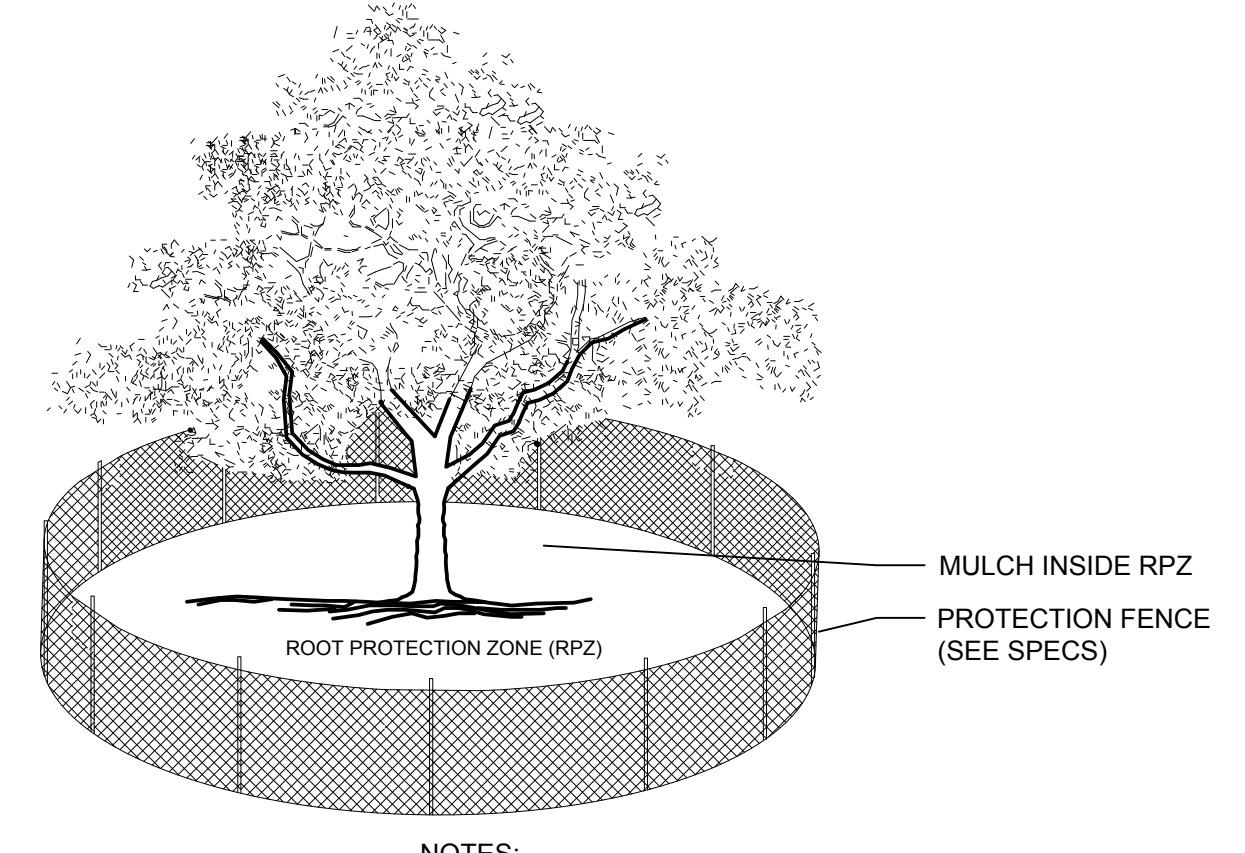
SHEET TITLE
TREE DISPOSITION PLAN

JOB #: XXXXXXXX
 DATE: XXXXXX
 SCALE:
 DRAWN BY: XXX
 CHECKED BY: XXX

SHEET NO.
TD-1



A TREE PROTECTION FENCE - ELEVATION
SCALE: NOT TO SCALE

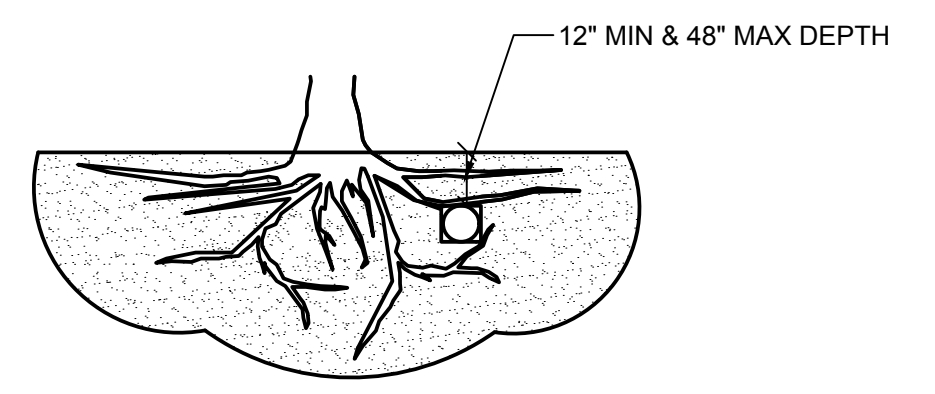


B TREE PROTECTION FENCE
SCALE: NOT TO SCALE

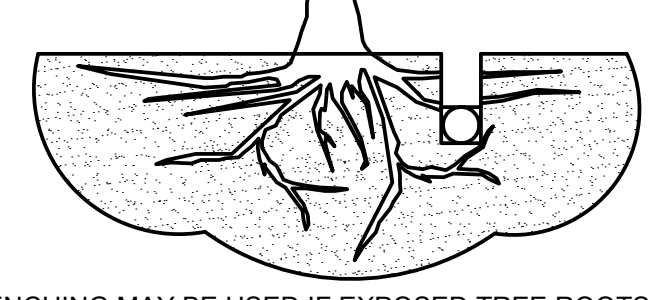
NOTES:
1. THE FENCING LOCATION SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND BE LIMITED TO PROJECT BOUNDARY. WHERE MULTIPLE ADJACENT TREES WILL BE ENCLOSED BY FENCING, THE FENCING SHALL BE CONTINUOUS AROUND ALL TREES.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS THROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.



TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

C BORING THROUGH ROOT PROTECTION ZONE
SCALE: NOT TO SCALE

TREE PROTECTION SPECIFICATIONS

- MATERIALS**
- FENCING: 6 FOOT HIGH CHAIN LINK FENCING.
 - POSTS: POSTS SHALL BE A MINIMUM OF 72 INCHES LONG AND STEEL.
- CONSTRUCTION METHODS**
- ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.
 - EMPLOY THE SERVICES OF AN ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) CERTIFIED ARBORIST AND OBTAIN ALL REQUIRED PERMITS TO PRUNE THE EXISTING TREES FOR CLEANING, RAISING AND THINNING, AS MAY BE REQUIRED.
 - PROTECTIVE FENCING SHALL BE ERECTED OUTSIDE THE CRITICAL ROOT ZONE (CRZ, EQUAL TO 1' FROM THE TRUNK FOR EVERY 1" OF DBH) AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE CONSULTANT AND/OR CITY ARBORIST, AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. TREES IN CLOSE PROXIMITY SHALL BE FENCED TOGETHER, RATHER THAN INDIVIDUALLY.
 - PROTECTIVE FENCE LOCATIONS IN CLOSE PROXIMITY TO STREET INTERSECTIONS OR DRIVES SHALL ADHERE TO THE APPLICABLE JURISDICTION'S SIGHT DISTANCE CRITERIA.
 - THE PROTECTIVE FENCING SHALL BE ERECTED BEFORE SITE WORK COMMENCES AND SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.
 - THE INSTALLATION POSTS SHALL BE PLACED EVERY 6 FEET ON CENTER AND EMBEDDED TO 18 INCHES DEEP. CHAIN LINK SHALL BE ATTACHED TO THE INSTALLATION POSTS BY THE USE OF SUFFICIENT WIRE TIES TO SECURELY FASTEN THE CHAIN LINK TO THE POSTS TO HOLD THE CHAIN LINK IN A STABLE AND UPRIGHT POSITION.
 - WITHIN THE CRZ:
 - DO NOT CLEAR, FILL OR GRADE IN THE CRZ OF ANY TREE.
 - DO NOT STORE, STOCKPILE OR DUMP ANY JOB MATERIAL, SOIL OR RUBBISH UNDER THE SPREAD OF THE TREE BRANCHES.
 - DO NOT PARK OR STORE ANY EQUIPMENT OR SUPPLIES UNDER THE TREE CANOPY.
 - DO NOT SET UP ANY CONSTRUCTION OPERATIONS UNDER THE TREE CANOPY (SUCH AS PIPE CUTTING AND THREADING, MORTAR MIXING, PAINTING OR LUMBER CUTTING).
 - DO NOT NAIL OR ATTACH TEMPORARY SIGNS, METERS, SWITCHES, WIRES, BRACING OR ANY OTHER ITEM TO THE TREES.
 - DO NOT PERMIT RUNOFF FROM WASTE MATERIALS INCLUDING SOLVENTS, CONCRETE WASHOUTS, ASPHALT TACK COATS (MC-30 OIL), ETC. TO ENTER THE CRZ. BARRIERS ARE TO BE PROVIDED TO PREVENT SUCH RUNOFF SUBSTANCES FROM ENTERING THE CRZ WHENEVER POSSIBLE, INCLUDING IN AN AREA WHERE RAIN OR SURFACE WATER COULD CARRY SUCH MATERIALS TO THE ROOT SYSTEM OF THE TREE.
 - ROUTE UNDERGROUND UTILITIES TO AVOID THE CRZ. IF DIGGING IS UNAVOIDABLE, BORE UNDER THE ROOTS, OR HAND DIG TO AVOID SEVERING THEM.
 - WHERE EXCAVATION IN THE VICINITY OF TREES MUST OCCUR, SUCH AS FOR IRRIGATION INSTALLATION, PROCEED WITH CAUTION, AND USING HAND TOOLS ONLY.
 - THE CONTRACTOR SHALL NOT CUT ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATION OCCURS NEAR EXISTING TREES. ALL ROOTS LARGER THAN ONE INCH IN DIAMETER ARE TO BE CUT CLEANLY. FOR OAKS ONLY, ALL WOUNDS SHALL BE PAINTED WITH WOUND SEALER WITHIN 30 MINUTES.
 - REMOVE ALL TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS BY HAND.
 - TREES DAMAGED OR KILLED DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AT THE CONTRACTOR'S EXPENSE AND TO THE PROJECT OWNER'S AND LOCAL JURISDICTION'S SATISFACTION.
 - ANY TREE REMOVAL SHALL BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO ITS REMOVAL, AND THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS FOR SUCH ACTIVITIES.
 - COVER EXPOSED ROOTS AT THE END OF EACH DAY WITH SOIL, MULCH OR WET BURLAP.
 - IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION AND WHERE HEAVY TRAFFIC IS ANTICIPATED, COVER THE SOIL WITH EIGHT INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. THIS EIGHT INCH DEPTH OF MULCH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
 - WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES, DEEPLY ONCE A WEEK DURING PERIODS OF HOT DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
 - WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE PROTECTION FENCING WHEN ALL THREATS TO THE EXISTING TREES FROM CONSTRUCTION-RELATED ACTIVITIES HAVE BEEN REMOVED.

Tree No.	Species	DBH	Remove
100			
101			
102			
103			
104			
105			
106			
107			
108	Cherry	10	x
109	Cherry	9	x
110	Japanese maple	3	x
111	Sugar maple	36	x
112	Locust	3	x
113	Locust	5	x
114	Ginkgo	5	x
115	Birch	12	x
116	Locust	6	x
117	Spruce	6	x
118	Red maple	4	
119	Red maple	4	
120	Red maple	4	
121	Oak	15	
122	Sugar maple	6	
123	River birch	5	
124	Birch	12	
125	Birch	3	
126	River birch	5	
127	Red maple	4	
128	Red maple	4	
129	Eastern white pine		
130	Eastern white pine		
131	Eastern white pine		
132	Eastern white pine		
133	Eastern white pine		
134	Eastern white pine		
135	Eastern white pine		
136	Eastern white pine		
137	Eastern hemlock	4	x
138	Eastern hemlock	3	x
139	Eastern hemlock	4	x
Total inches preserved		66	
Total inches removed		106	

ALL TREE INFORMATION PROVIDED BY CORE STATES GROUP.

CORE STATES GROUP
9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0077
AROSCOE@CORE-STATES.COM

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37909

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REV	DATE	COMMENT	BY

DOCUMENT

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

SHEET TITLE
PLANTING PLAN

JOB #: XXXXXXX
DATE: XXXXXX
SCALE:
DRAWN BY: XXX
CHECKED BY: XXX

SHEET NO.
TD-2

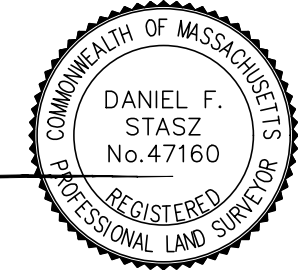
LEGEND

- | | | |
|--------------------------|-----------------------------|------------------------------------|
| CONC. CONCRETE | D DRAIN | — — — — — PROPERTY LINE |
| BIT. BITUMINOUS CONCRETE | E ELECTRIC | - - - - - ABUTTER'S LINE |
| CCB CAPE COD BERM | W WATER | - - - - - EASEMENT LINE |
| CC CONC. CURB | G GAS | - - - - - SETBACK LINE |
| VGC VERT. GRANITE CURB | S SEWER | - - - - - UNDERGROUND UTILITY LINE |
| ⊙ MANHOLE | C/T TELECOM | - - - - - CONTOUR LINE |
| ⊠ CATCH BASIN | ⊠ SIGN POST | - - - - - GUARD RAIL |
| ⊙ PIPE INLET / OUTLET | ⊙ POST / BOLLARD | - - - - - CHAIN LINK FENCE |
| ⊙ UTILITY POLE | ⊙ BORING | - - - - - WIRE FENCE |
| ⊙ GUY WIRE ANCHOR | ⊠ GRAN. BOUND FOUND | - - - - - OVERHEAD WIRE |
| ☆ LIGHT POLE | ⊙ TEMPORARY BENCHMARK (TBM) | - - - - - WETLAND DELINEATION |
| ⊠ DOUBLE LIGHT POLE | ⊙ MONITORING WELL | - - - - - PAINT LINE |
| ▽ FLOOD LIGHT | ⊙ FUEL FILL COVER | - - - - - EDGE OF WATER |
| ⊠ UTILITY BOX | ⊙ VERTICAL PIPE | - - - - - HEDGE ROW |
| ⊠ UTILITY METER | ⊠ WETLAND FLAG | ⊠ AIR CONDITIONER |
| ⊠ WATER / GAS GATE VALVE | ⊙ TREE | |
| | ⊙ BUSH | |

NOTES:

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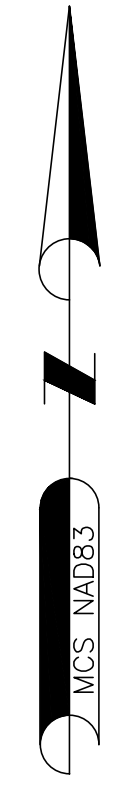
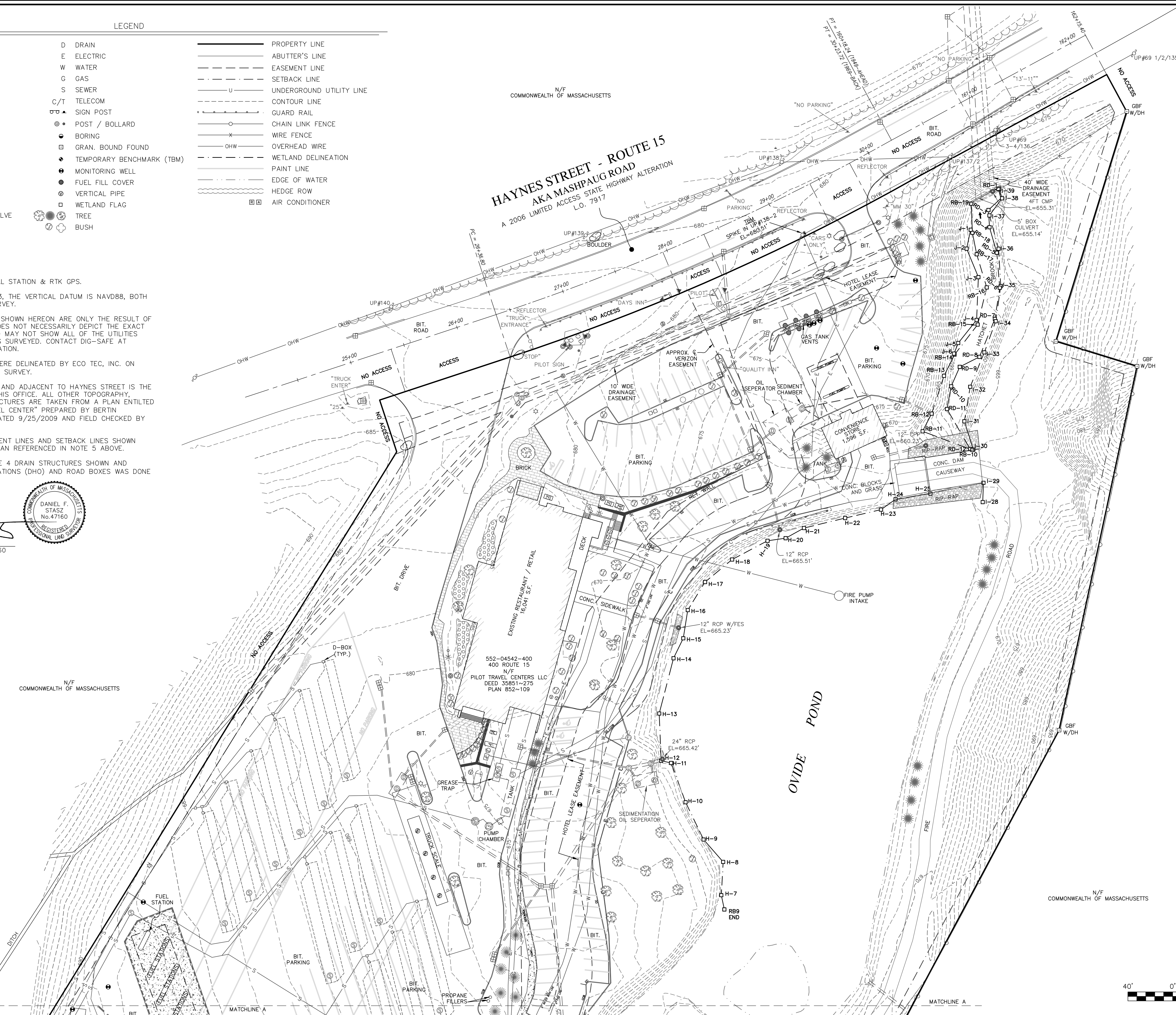
Daniel F. Stasz
DANIEL F. STASZ PLS #47160



N/F
COMMONWEALTH OF MASSACHUSETTS

N/F
COMMONWEALTH OF MASSACHUSETTS

**HAYNES STREET - ROUTE 15
AKA MASHPAUG ROAD**
A 2006 LIMITED ACCESS STATE HIGHWAY ALTERATION
L.O. 7917



NORTHEAST SURVEY CONSULTANTS
116 PLEASANT ST., SUITE 302
EASTHAMPTON, MA 01027
(413) 203-5144

EXISTING CONDITIONS

SURVEYOR:	DFS	ENGINEER:	
DRAFTING:	JDG	DESIGN:	
FIELD WORK:	KMB	HORZ. SCALE:	1" = 40'
PROJECT NUMBER:	19-295	VERT. SCALE:	
DRAWING NAME:	19-295.DWG	DATE:	05-21-2020

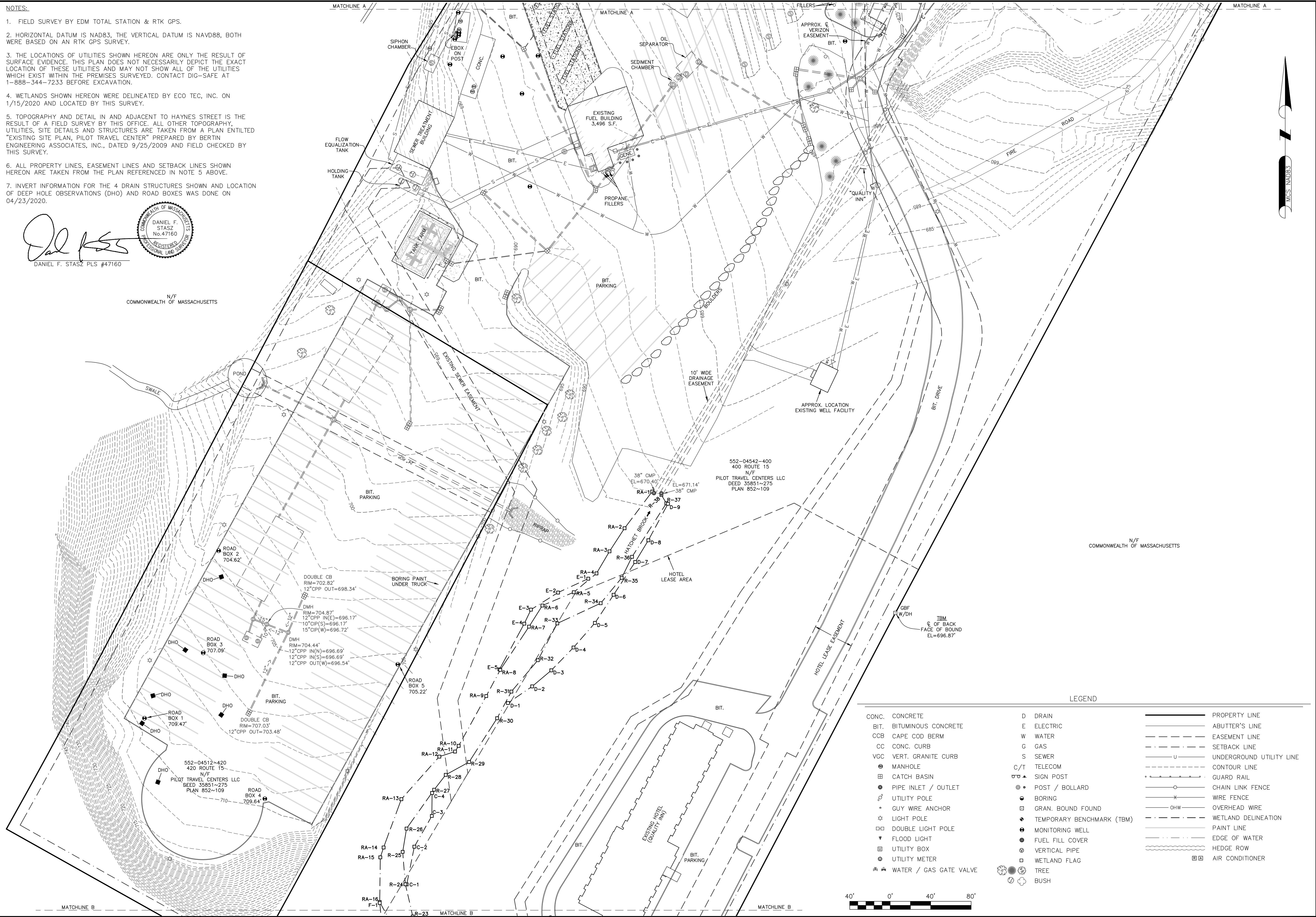
PLAN OF LAND IN
STURBRIDGE, MA
PREPARED FOR
CORE STATES GROUP

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Daniel F. Stasz
 DANIEL F. STASZ PLS #47160
 REGISTERED PROFESSIONAL LAND SURVEYOR
 COMMONWEALTH OF MASSACHUSETTS
 No. 47160

N/F
 COMMONWEALTH OF MASSACHUSETTS



LEGEND

CONC.	CONCRETE	D	DRAIN	—	PROPERTY LINE
BIT.	BITUMINOUS CONCRETE	E	ELECTRIC	—	ABUTTER'S LINE
CCB	CAPE COD BERM	W	WATER	—	EASEMENT LINE
CC	CONC. CURB	G	GAS	—	SETBACK LINE
VGC	VERT. GRANITE CURB	S	SEWER	—	UNDERGROUND UTILITY LINE
⊙	MANHOLE	C/T	TELECOM	—	CONTOUR LINE
⊕	CATCH BASIN	⊙	SIGN POST	—	GUARD RAIL
⊖	PIPE INLET / OUTLET	⊙	POST / BOLLARD	—	CHAIN LINK FENCE
⊙	UTILITY POLE	⊙	BORING	—	WIRE FENCE
⊙	GUY WIRE ANCHOR	⊕	GRAN. BOUND FOUND	—	OVERHEAD WIRE
☆	LIGHT POLE	⊕	TEMPORARY BENCHMARK (TBM)	—	WETLAND DELINEATION
⊕	DOUBLE LIGHT POLE	⊕	MONITORING WELL	—	PAINT LINE
⊕	FLOOD LIGHT	⊕	FUEL FILL COVER	—	EDGE OF WATER
⊕	UTILITY BOX	⊕	VERTICAL PIPE	—	HEDGE ROW
⊕	UTILITY METER	⊕	WETLAND FLAG	—	AIR CONDITIONER
⊕	WATER / GAS GATE VALVE	⊕	TREE	—	
		⊕	BUSH	—	

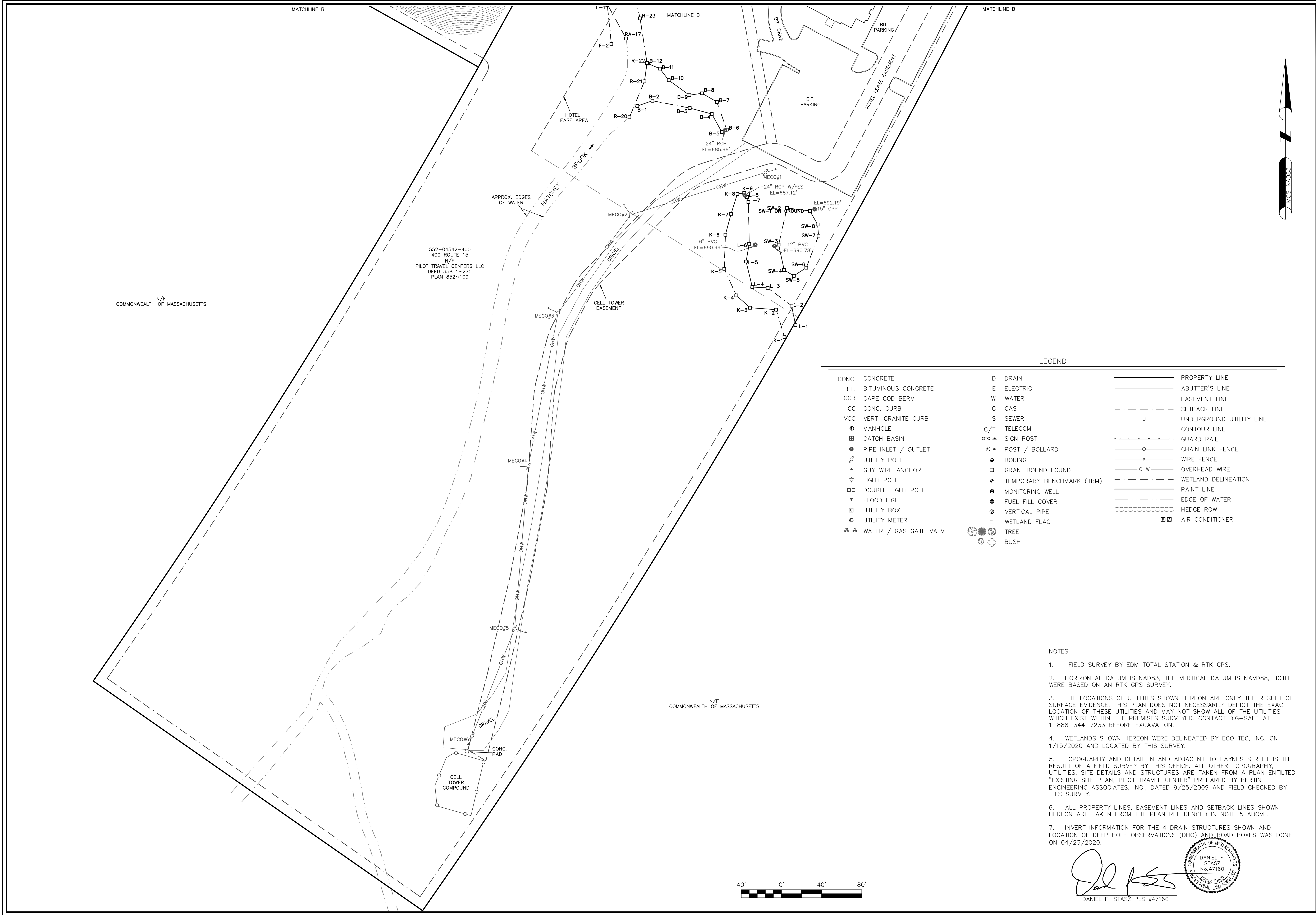


NORTHEAST SURVEY CONSULTANTS
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 EASTHAMPTON, MA 01027
 (413) 203-5144

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DRAFTING:	JDG	DESIGN:	—
FIELD WORK:	KMB	HORZ. SCALE:	1"=40'
PROJECT NUMBER:	19-295	VERT. SCALE:	—
DRAWING NAME:	19-295.DWG	DATE:	05-21-2020

PLAN OF LAND IN
 STURBRIDGE, MA
 PREPARED FOR
 CORE STATES GROUP



LEGEND

CONC.	CONCRETE	D	DRAIN	— — — —	PROPERTY LINE
BIT.	BITUMINOUS CONCRETE	E	ELECTRIC	- - - - -	ABUTTER'S LINE
CCB	CAPE COD BERM	W	WATER	- - - - -	EASEMENT LINE
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⊕	UTILITY POLE	⊙	BORING	- - - - -	WIRE FENCE
+	GUY WIRE ANCHOR	⊞	GRAN. BOUND FOUND	- - - - -	OVERHEAD WIRE
☆	LIGHT POLE	♦	TEMPORARY BENCHMARK (TBM)	- - - - -	WETLAND DELINEATION
□	DOUBLE LIGHT POLE	●	MONITORING WELL	- - - - -	PAINT LINE
⏚	FLOOD LIGHT	●	FUEL FILL COVER	- - - - -	EDGE OF WATER
⊞	UTILITY BOX	⊙	VERTICAL PIPE	- - - - -	HEDGE ROW
⊕	UTILITY METER	⊞	WETLAND FLAG	- - - - -	AIR CONDITIONER
⊞	WATER / GAS GATE VALVE	⊙	TREE	- - - - -	
		⊙	BUSH	- - - - -	

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DANIEL F. STASZ PLS #47160

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<p>SURVEYOR: DFS</p> <p>DRAFTING: JDG</p> <p>FIELD WORK: KMB</p> <p>PROJECT NUMBER: 19-295</p> <p>DRAWING NAME: 19-295.DWG</p>	<p>ENGINEER: —</p> <p>DESIGN: —</p> <p>HORZ. SCALE: 1" = 40'</p> <p>VERT. SCALE: —</p> <p>DATE: 05-21-2020</p>
<p>PLAN OF LAND IN STURBRIDGE, MA PREPARED FOR CORE STATES GROUP</p>	
<p>SHEET NO. 3 OF 3</p>	