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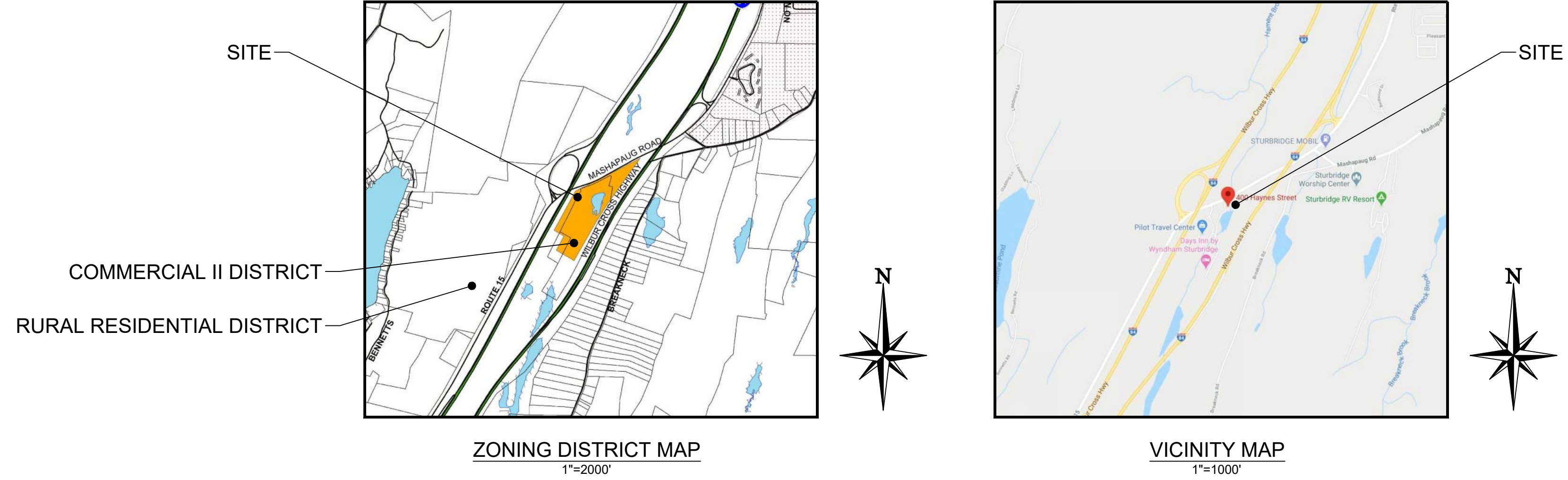
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SITE PLAN FOR PILOT TRAVEL CENTERS

400 HAYNES STREET BOOK 35851, PAGE 0275 TOWN OF STURBRIDGE WORCESTER COUNTY, MASSACHUSETTS



ZONING DISTRICT MAP
1"=2000'

VICINITY MAP
1"=1000'

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NOTE

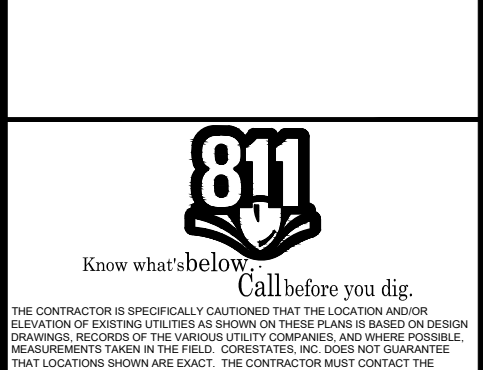
THE PURPOSE OF THESE DRAWINGS IS TO REVIEW AND EVALUATE IMPACTS OF THE PROPOSED RENOVATIONS TO THIS SITE AS IT RELATES TO THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE STURBRIDGE WETLAND PROTECTION BY-LAW.



DOCUMENTS PREPARED BY CORE STATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORE STATES, INC. IS DONE UNLAWFULLY AND AT THE USER'S OWN RISK. IT IS USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED. USER WILL HOLD CORE STATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.

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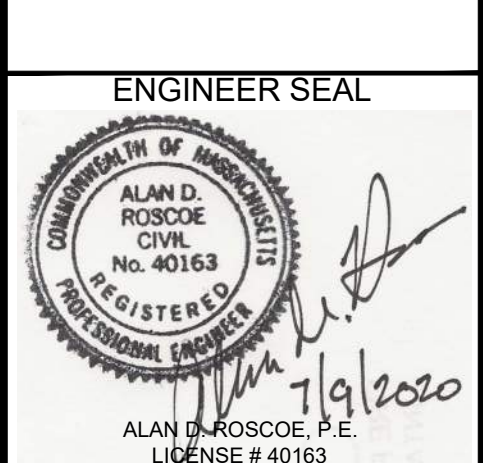
PILOT TRAVEL CENTERS LLC.
5508 LONAS ROAD
KNOXVILLE, TN 37909



REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566



SHEET TITLE
COVER
SHEET

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

SHEET NO.
C0

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 CARPLYING UNDER 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:

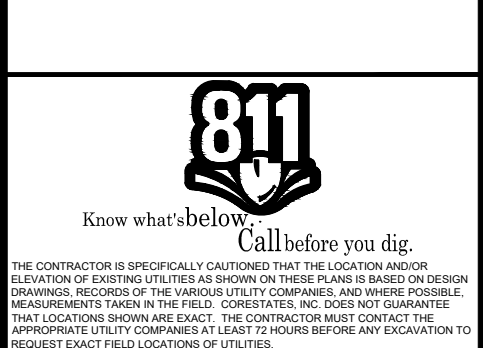
- ALL PAVING AND GRADING CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF 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 3H: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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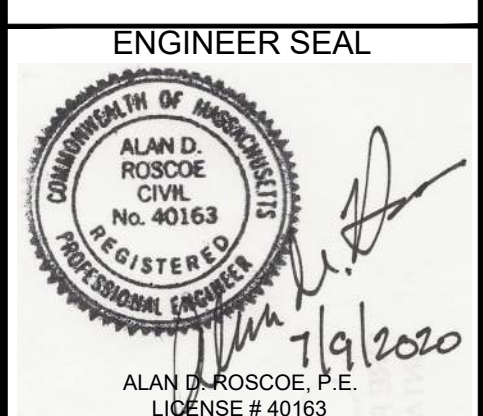
CLIENT
PILOT TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909



REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMITTED TO TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN APPROVAL

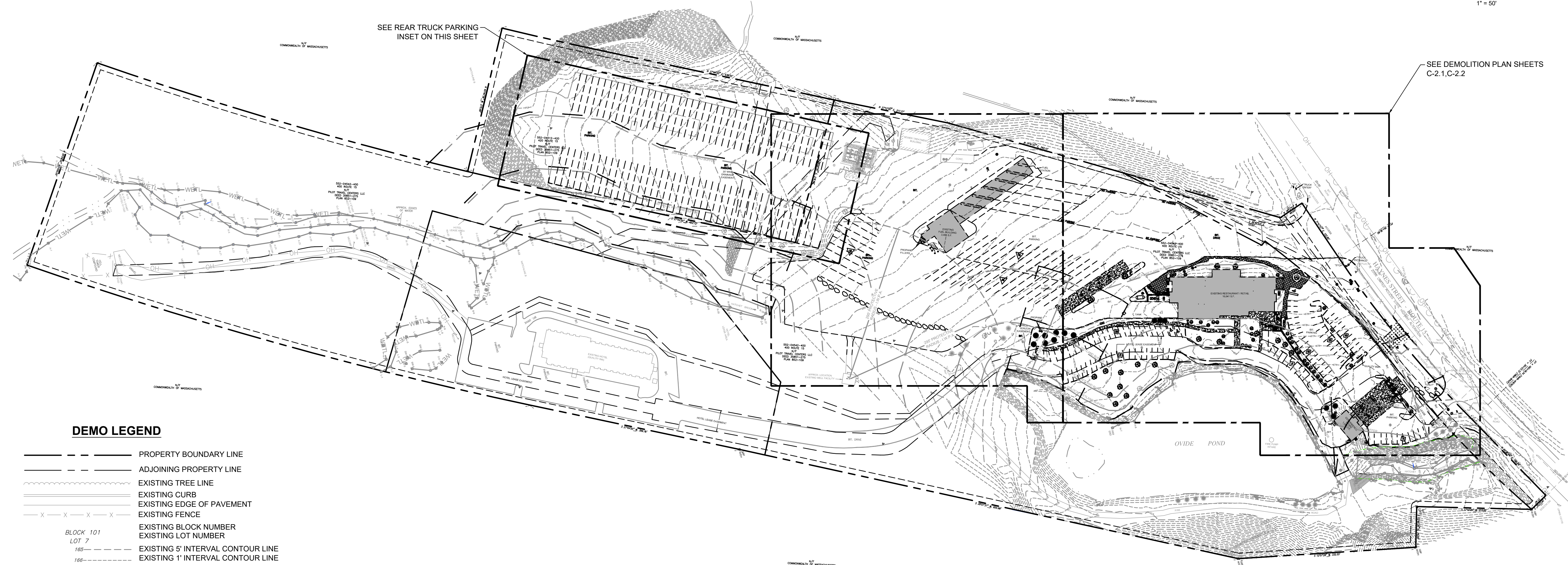
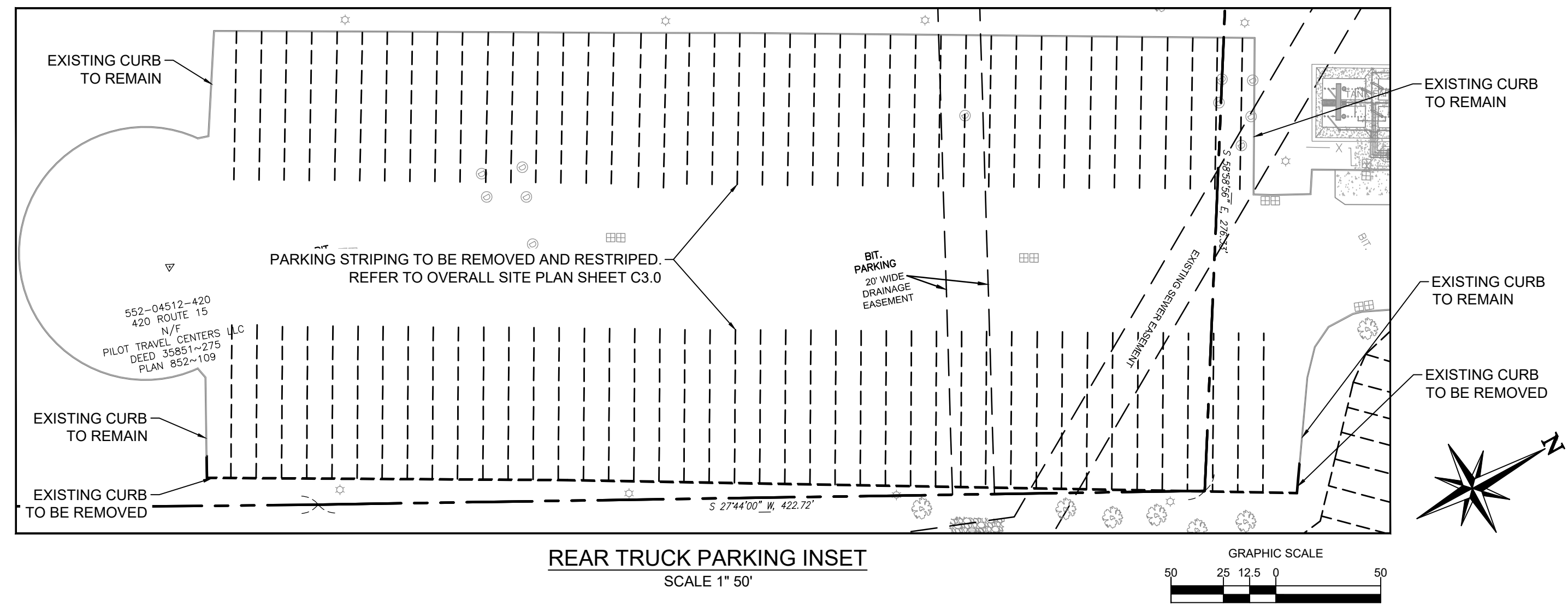
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566



SHEET TITLE
GENERAL NOTES

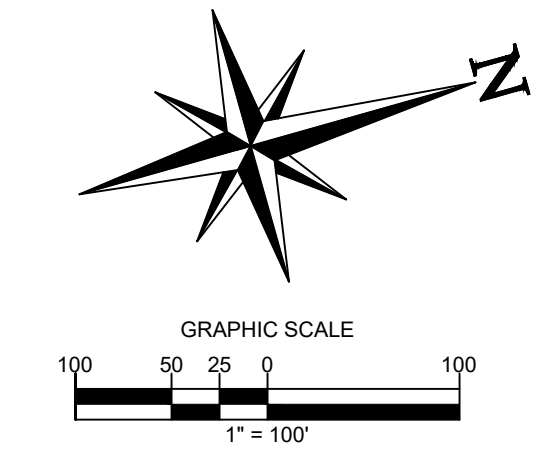
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DATE:	02/10/20
SCALE:	NTS
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SHEET NO.
C1.0



DEMO LEGEND

- PROPERTY BOUNDARY LINE
- ADJOINING PROPERTY LINE
- EXISTING TREE LINE
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- EXISTING BLOCK NUMBER
- EXISTING LOT NUMBER
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING TREE
- EXISTING GAS MAIN
- EXISTING UTILITY POLE
- EXISTING STORM STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING TELEPHONE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING SANITARY
- EXISTING STORM
- DEMO CURB
- DEMO TREE



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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ARCSCOE@CORE-STATES.COM

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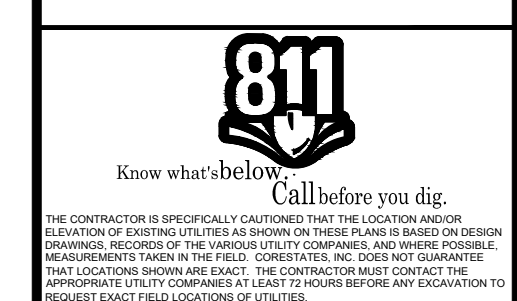


CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN
37909



REVISIONS

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DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

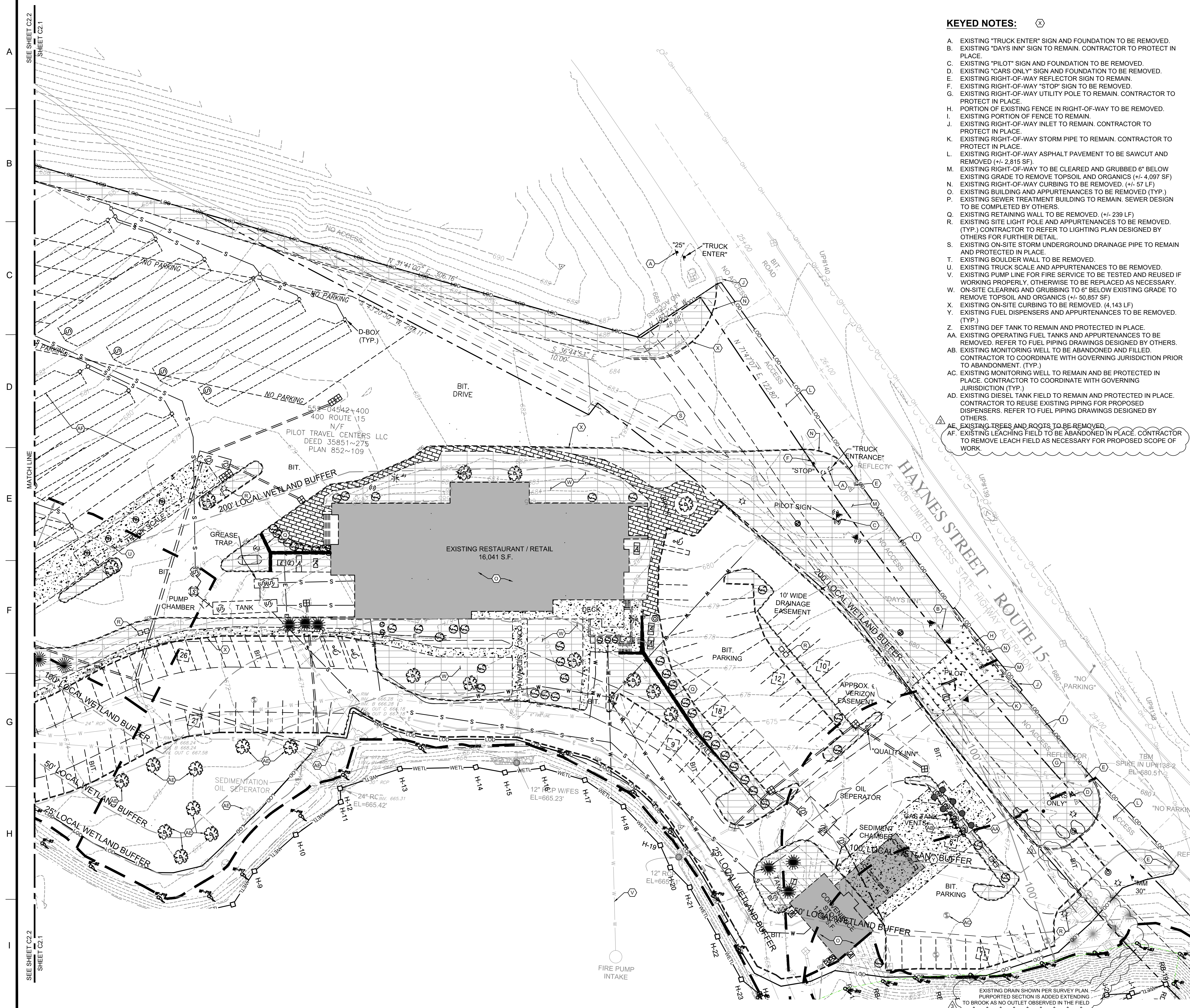
ENGINEER SEAL

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

SHEET TITLE
OVERALL
DEMOLITION
PLAN

JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
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SHEET NO.
C2.0

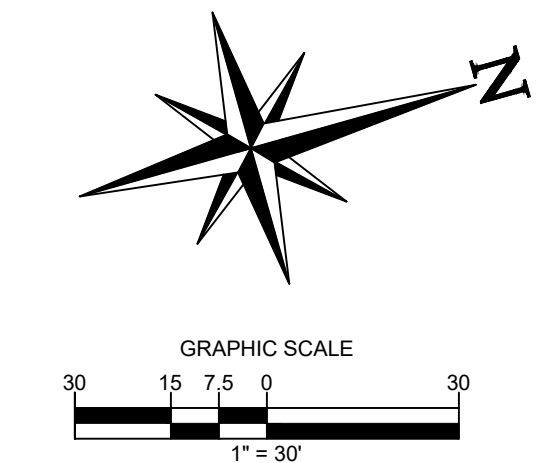


- KEYED NOTES:** (X)
- A. EXISTING "TRUCK ENTER" SIGN AND FOUNDATION TO BE REMOVED.
 - B. EXISTING "DAYS INN" SIGN TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
 - C. EXISTING "PILOT" SIGN AND FOUNDATION TO BE REMOVED.
 - D. EXISTING "CARS ONLY" SIGN AND FOUNDATION TO BE REMOVED.
 - E. EXISTING RIGHT-OF-WAY REFLECTOR SIGN TO REMAIN.
 - F. EXISTING RIGHT-OF-WAY "STOP" SIGN TO BE REMOVED.
 - G. EXISTING RIGHT-OF-WAY UTILITY POLE TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
 - H. PORTION OF EXISTING FENCE IN RIGHT-OF-WAY TO BE REMOVED.
 - I. EXISTING PORTION OF FENCE TO REMAIN.
 - J. EXISTING RIGHT-OF-WAY INLET TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
 - K. EXISTING RIGHT-OF-WAY STORM PIPE TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
 - L. EXISTING RIGHT-OF-WAY ASPHALT PAVEMENT TO BE SAWCUT AND REMOVED (+/- 2,815 SF).
 - M. EXISTING RIGHT-OF-WAY TO BE CLEARED AND GRUBBED 6" BELOW EXISTING GRADE TO REMOVE TOPSOIL AND ORGANICS (+/- 4,097 SF).
 - N. EXISTING RIGHT-OF-WAY CURBING TO BE REMOVED. (+/- 57 LF).
 - O. EXISTING BUILDING AND APPURTENANCES TO BE REMOVED (TYP.)
 - P. EXISTING SEWER TREATMENT BUILDING TO REMAIN. SEWER DESIGN TO BE COMPLETED BY OTHERS.
 - Q. EXISTING RETAINING WALL TO BE REMOVED. (+/- 239 LF)
 - R. EXISTING SITE LIGHT POLE AND APPURTENANCES TO BE REMOVED. (TYP.) CONTRACTOR TO REFER TO LIGHTING PLAN DESIGNED BY OTHERS FOR FURTHER DETAIL.
 - S. EXISTING ON-SITE STORM UNDERGROUND DRAINAGE PIPE TO REMAIN AND PROTECTED IN PLACE.
 - T. EXISTING BOULDER WALL TO BE REMOVED.
 - U. EXISTING TRUCK SCALE AND APPURTENANCES TO BE REMOVED.
 - V. EXISTING PUMP LINE FOR FIRE SERVICE TO BE TESTED AND REUSED IF WORKING PROPERLY. OTHERWISE TO BE REPLACED AS NECESSARY.
 - W. ON-SITE CLEARING AND GRUBBING TO 6" BELOW EXISTING GRADE TO REMOVE TOPSOIL AND ORGANICS (+/- 50,857 SF)
 - X. EXISTING ON-SITE CURBING TO BE REMOVED. (4,143 LF)
 - Y. EXISTING FUEL DISPENSERS AND APPURTENANCES TO BE REMOVED. (TYP.)
 - Z. EXISTING DEF TANK TO REMAIN AND PROTECTED IN PLACE.
 - AA. EXISTING OPERATING FUEL TANKS AND APPURTENANCES TO BE REMOVED. REFER TO FUEL PIPING DRAWINGS DESIGNED BY OTHERS.
 - AB. EXISTING MONITORING WELL TO BE ABANDONED AND FILLED. CONTRACTOR TO COORDINATE WITH GOVERNING JURISDICTION PRIOR TO ABANDONMENT. (TYP.)
 - AC. EXISTING MONITORING WELL TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO COORDINATE WITH GOVERNING JURISDICTION. (TYP.)
 - AD. EXISTING DIESEL TANK FIELD TO REMAIN AND PROTECTED IN PLACE. CONTRACTOR TO REUSE EXISTING PIPING FOR PROPOSED DISPENSERS. REFER TO FUEL PIPING DRAWINGS DESIGNED BY OTHERS.
 - AE. EXISTING TREES AND ROOTS TO BE REMOVED
 - AF. EXISTING LEACHING FIELD TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE LEACH FIELD AS NECESSARY FOR PROPOSED SCOPE OF WORK

- DEMO LEGEND**
- PROPERTY BOUNDARY LINE
 - ADJOINING PROPERTY LINE
 - EXISTING TREE LINE
 - EXISTING CURB
 - EXISTING EDGE OF PAVEMENT
 - EXISTING FENCE
 - EXISTING BLOCK NUMBER
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 - EXISTING 1' INTERVAL CONTOUR LINE
 - (T) EXISTING TREE
 - (G) EXISTING GAS MAIN
 - (U) EXISTING UTILITY POLE
 - (S) EXISTING STORM STRUCTURES
 - (S) EXISTING SANITARY STRUCTURES
 - (W) EXISTING WATER MAIN
 - (E) EXISTING FIRE HYDRANT
 - (V) EXISTING WATER VALVE
 - (T) EXISTING TELEPHONE
 - (T) EXISTING UNDERGROUND ELECTRIC
 - (OH) EXISTING OVERHEAD WIRES
 - (S) EXISTING SANITARY
 - (S) EXISTING STORM
 - DEMO CURB
 - (T) DEMO TREE
 - PROPOSED SAWCUT LINE
 - LIMITS OF DISTURBANCE

- HATCH LEGEND**
- [Pattern] DEMO CONCRETE
 - [Pattern] DEMO ASPHALT
 - [Pattern] ASPHALT PAVEMENT TO BE MILLED
 - [Pattern] DEMO BRICK PAVERS
 - [Pattern] LIMITS OF CLEAR AND GRUB
 - [Pattern] DEMO GRASS/LANDSCAPE AREAS

- WETLAND BUFFER PLAN LEGEND**
- LOD --- LIMITS OF DISTURBANCE
 - FP --- 100 YR. FLOODPLAIN
 - --- TOP OF BANK
 - --- 100' & 200' RIVERFRONT PROTECTION ZONE
 - WETL --- WETLAND BOUNDARY
 - --- 25', 50', 100' & 200' WETLAND BUFFER
 - --- 295' PROTECTIVE RADIUS - I.W.P.A.



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CLIENT

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Know what's below. Call before you dig.

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DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION

400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

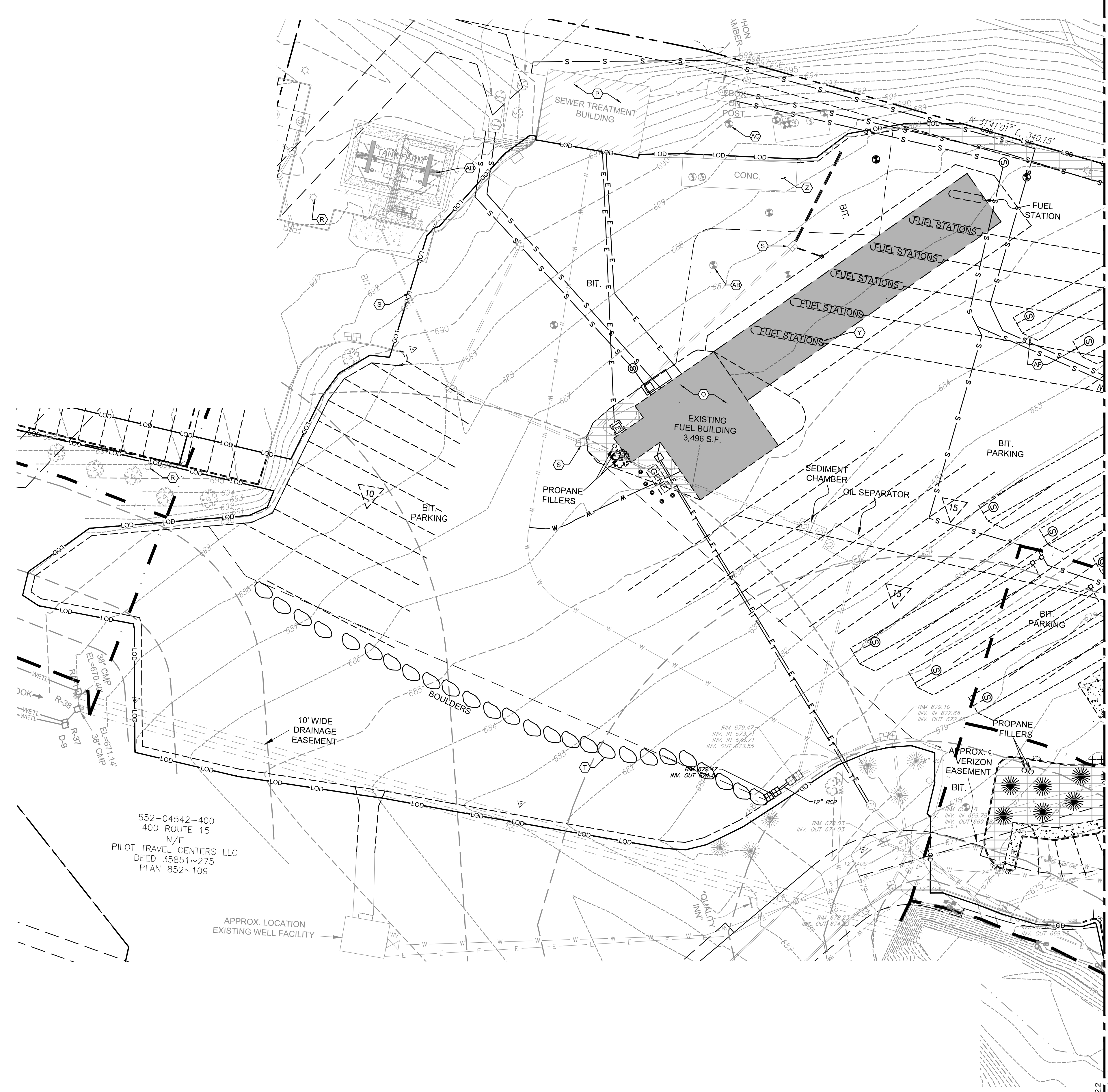
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
DEMOLITION PLAN

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

SHEET NO.
C2.1

SHEET C2.2 SEE SHEET C2.1



KEYED NOTES:

- A. EXISTING "TRUCK ENTER" SIGN AND FOUNDATION TO BE REMOVED.
- B. EXISTING "DAYS INN" SIGN TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- C. EXISTING "PILOT" SIGN AND FOUNDATION TO BE REMOVED.
- D. EXISTING "CARS ONLY" SIGN AND FOUNDATION TO BE REMOVED.
- E. EXISTING RIGHT-OF-WAY REFLECTOR SIGN TO REMAIN.
- F. EXISTING RIGHT-OF-WAY "STOP" SIGN TO BE REMOVED.
- G. EXISTING RIGHT-OF-WAY UTILITY POLE TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- H. PORTION OF EXISTING FENCE IN RIGHT-OF-WAY TO BE REMOVED.
- I. EXISTING PORTION OF FENCE TO REMAIN.
- J. EXISTING RIGHT-OF-WAY INLET TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- K. EXISTING RIGHT-OF-WAY STORM PIPE TO REMAIN. CONTRACTOR TO PROTECT IN PLACE.
- L. EXISTING RIGHT-OF-WAY ASPHALT PAVEMENT TO BE SAWCUT AND REMOVED (+/- 2,815 SF).
- M. EXISTING RIGHT-OF-WAY TO BE CLEARED AND GRUBBED 6" BELOW EXISTING GRADE TO REMOVE TOPSOIL AND ORGANICS (+/- 4,097 SF).
- N. EXISTING RIGHT-OF-WAY CURBING TO BE REMOVED. (+/- 57 LF).
- O. EXISTING BUILDING AND APPURTENANCES TO BE REMOVED (TYP.)
- P. EXISTING SEWER TREATMENT BUILDING TO REMAIN. SEWER DESIGN TO BE COMPLETED BY OTHERS.
- Q. EXISTING RETAINING WALL TO BE REMOVED. (+/- 239 LF).
- R. EXISTING SITE LIGHT POLE AND APPURTENANCES TO BE REMOVED. (TYP.) CONTRACTOR TO REFER TO LIGHTING PLAN DESIGNED BY OTHERS FOR FURTHER DETAIL.
- S. EXISTING ON-SITE STORM UNDERGROUND DRAINAGE PIPE TO REMAIN AND PROTECTED IN PLACE.
- T. EXISTING BOULDER WALL TO BE REMOVED.
- U. EXISTING TRUCK SCALE AND APPURTENANCES TO BE REMOVED.
- V. EXISTING PUMP LINE FOR FIRE SERVICE TO BE TESTED AND REUSED IF WORKING PROPERLY. OTHERWISE TO BE REPLACED AS NECESSARY.
- W. ON-SITE CLEARING AND GRUBBING TO 6" BELOW EXISTING GRADE TO REMOVE TOPSOIL AND ORGANICS (+/- 50,857 SF).
- X. EXISTING ON-SITE CURBING TO BE REMOVED. (4,143 LF).
- Y. EXISTING FUEL DISPENSERS AND APPURTENANCES TO BE REMOVED. (TYP.)
- Z. EXISTING DEF TANK TO REMAIN AND PROTECTED IN PLACE.
- AA. EXISTING OPERATING FUEL TANKS AND APPURTENANCES TO BE REMOVED. REFER TO FUEL PIPING DRAWINGS DESIGNED BY OTHERS.
- AB. EXISTING MONITORING WELL TO BE ABANDONED AND FILLED. CONTRACTOR TO COORDINATE WITH GOVERNING JURISDICTION PRIOR TO ABANDONMENT. (TYP.)
- AC. EXISTING MONITORING WELL TO REMAIN AND BE PROTECTED IN PLACE. CONTRACTOR TO COORDINATE WITH GOVERNING JURISDICTION (TYP.)
- AD. EXISTING DIESEL TANK FIELD TO REMAIN AND PROTECTED IN PLACE. CONTRACTOR TO REUSE EXISTING PIPING FOR PROPOSED DISPENSERS. REFER TO FUEL PIPING DRAWINGS DESIGNED BY OTHERS.
- AE. EXISTING TREES AND ROOTS TO BE REMOVED.
- AF. EXISTING LEACHING FIELD TO BE ABANDONED IN PLACE. CONTRACTOR TO REMOVE LEACH FIELD AS NECESSARY FOR PROPOSED SCOPE OF WORK.

DEMO LEGEND

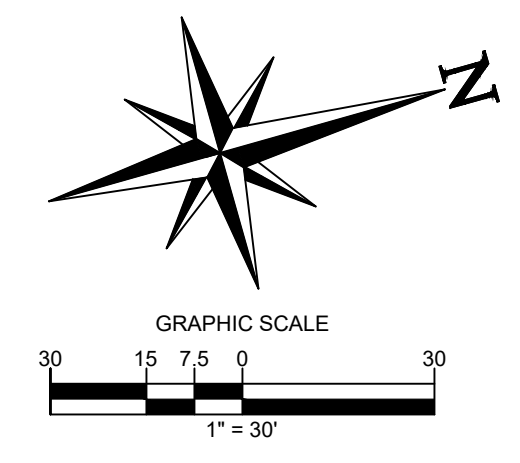
- PROPERTY BOUNDARY LINE
- - - ADJOINING PROPERTY LINE
- EXISTING TREE LINE
- EXISTING CURB
- EXISTING EDGE OF PAVEMENT
- EXISTING FENCE
- X - X - X - X - X EXISTING BLOCK NUMBER
- EXISTING LOT NUMBER
- EXISTING 5' INTERVAL CONTOUR LINE
- EXISTING 1' INTERVAL CONTOUR LINE
- EXISTING TREE
- EXISTING GAS MAIN
- EXISTING UTILITY POLE
- EXISTING STORM STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING WATER MAIN
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING TELEPHONE
- EXISTING UNDERGROUND ELECTRIC
- EXISTING OVERHEAD WIRES
- EXISTING SANITARY
- EXISTING STORM
- DEMO CURB
- DEMO TREE
- PROPOSED SAWCUT LINE
- LIMITS OF DISTURBANCE

HATCH LEGEND

- [Hatch] DEMO CONCRETE
- [Hatch] DEMO ASPHALT
- [Hatch] ASPHALT PAVEMENT TO BE MILLED
- [Hatch] DEMO BRICK PAVERS
- [Hatch] LIMITS OF CLEAR AND GRUB
- [Hatch] DEMO GRASS/LANDSCAPE AREAS

WETLAND BUFFER PLAN LEGEND

- LOD --- LOD --- LIMITS OF DISTURBANCE
- FP --- FP --- 100 YR. FLOODPLAIN
- --- --- TOP OF BANK
- --- --- 100' & 200' RIVERFRONT PROTECTION ZONE
- WETL --- WETL --- WETLAND BOUNDARY
- --- --- 25', 50', 100' & 200' WETLAND BUFFER
- --- --- 295' PROTECTIVE RADIUS - I.W.P.A.



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
 ARCSO@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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 Know what's below. Call before you dig.

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	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.
C2.2

ZONING DATA COMMERCIAL II ZONING DISTRICT FOR PARCEL ID 552-04542-400

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	3.20	COMPLIANT
MAXIMUM BUILDING HEIGHT (STORIES/FEET)	3/35	1.75/23	1/26	COMPLIANT
MAXIMUM IMPERVIOUS SURFACE (%)	70	31.75	28.36	COMPLIANT
MINIMUM HABITABLE FLOOR AREA (S.F.)	750	16,041	13,902	COMPLIANT

(1) STREET LINE SETBACKS APPLY TO ALL STREETS FORMING CORNER LOTS.
NA = NOT APPLICABLE

ZONING DATA COMMERCIAL II ZONING DISTRICT FOR PARCEL ID 552-04512-420

ITEM	REQUIRED	EXISTING	PROPOSED	COMMENT
LOT SIZE (AC.)	1	4	4	COMPLIANT
LOT FRONTAGE (FT.)	150	276.33	276.33	COMPLIANT
STREET SETBACK (FT.)	25 ⁽¹⁾	NA	NA	NONE
OTHER SETBACK (FT.)	10	NA	NA	NONE
MAXIMUM LOT COVERAGE (%)	30	NA	NA	NONE
MAXIMUM BUILDING HEIGHT (STORIES/FEET)	3/35	NA	NA	NONE
MAXIMUM IMPERVIOUS SURFACE (%)	70	64.98	64.98	COMPLIANT
MINIMUM HABITABLE FLOOR AREA (S.F.)	750	NA	NA	NONE

(1) STREET LINE SETBACKS APPLY TO ALL STREETS FORMING CORNER LOTS.
NA = NOT APPLICABLE

IMPERVIOUS CALCULATION FOR PARCEL ID 552-04542-400:

LOT AREA = 1,337,728 SF (30.71 AC.)

EXISTING CONDITIONS:
IMPERVIOUS AREA = 424,757 SF

PROPOSED CONDITIONS:
IMPERVIOUS AREA = 379,394 SF
REDUCTION OF IMPERVIOUS AREA = 45,363 SF

IMPERVIOUS CALCULATION FOR PARCEL ID 552-04512-420:

LOT AREA = 174,244 SF (4.0 AC.)

EXISTING CONDITIONS:
IMPERVIOUS AREA = 113,220 SF (2.6 AC.)

PROPOSED CONDITIONS:
IMPERVIOUS AREA = 107,290 SF (2.46 AC.)
REDUCTION OF IMPERVIOUS AREA = 5,930 SF

AUTO PARKING CALCULATION:

REQUIRED PASSENGER VEHICLE PARKING SPACES (EXCLUDING HOTEL):

RETAIL USE: MINIMUM OF 1 PARKING SPACE PER 200 SF OF GROSS FLOOR.

RETAIL ACTUAL = 5,275 SF
5,275 SF X (1 SPACE) / 200 SF = 27 SPACES REQUIRED

RESTAURANT USE: 1 SPACE FOR EVERY 3 SEATS, PLUS ONE SPACE FOR EVERY EMPLOYEE ON MAX. SHIFT.

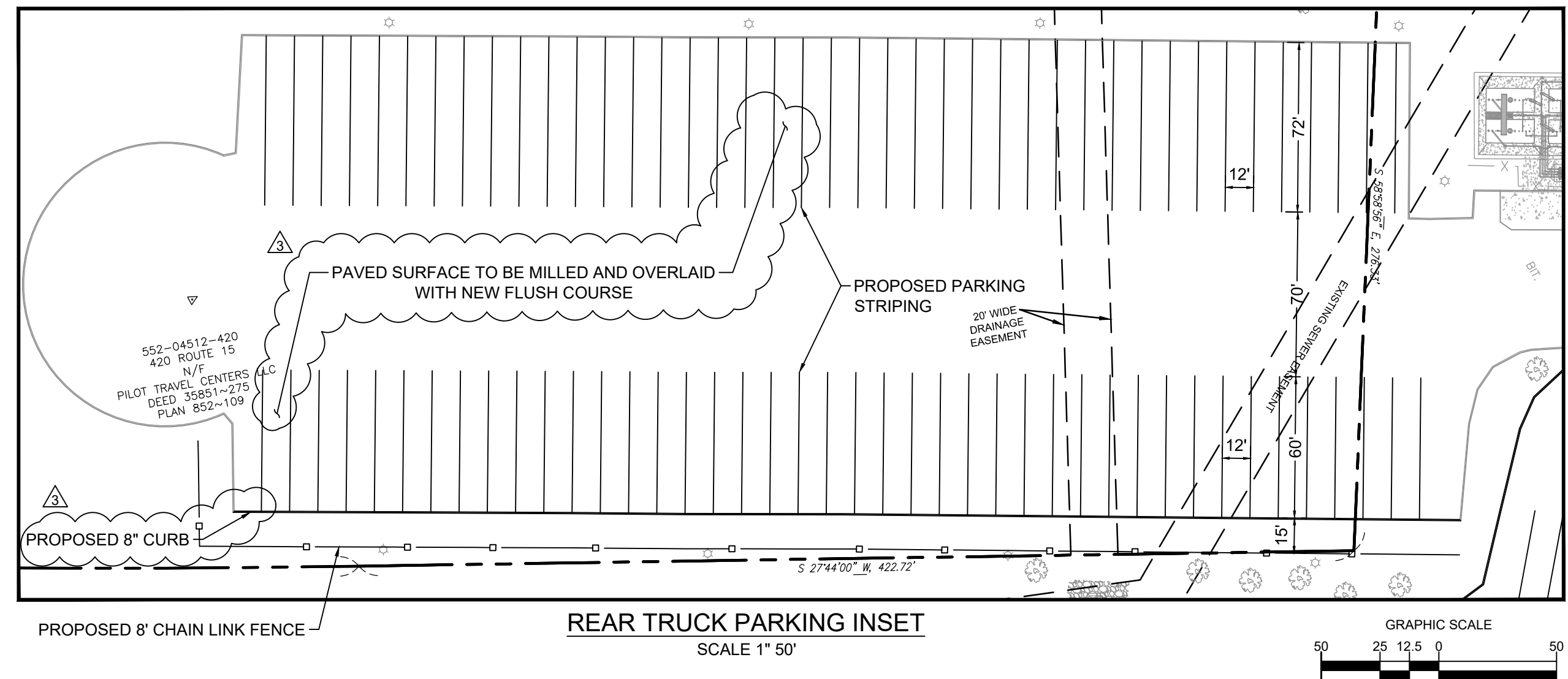
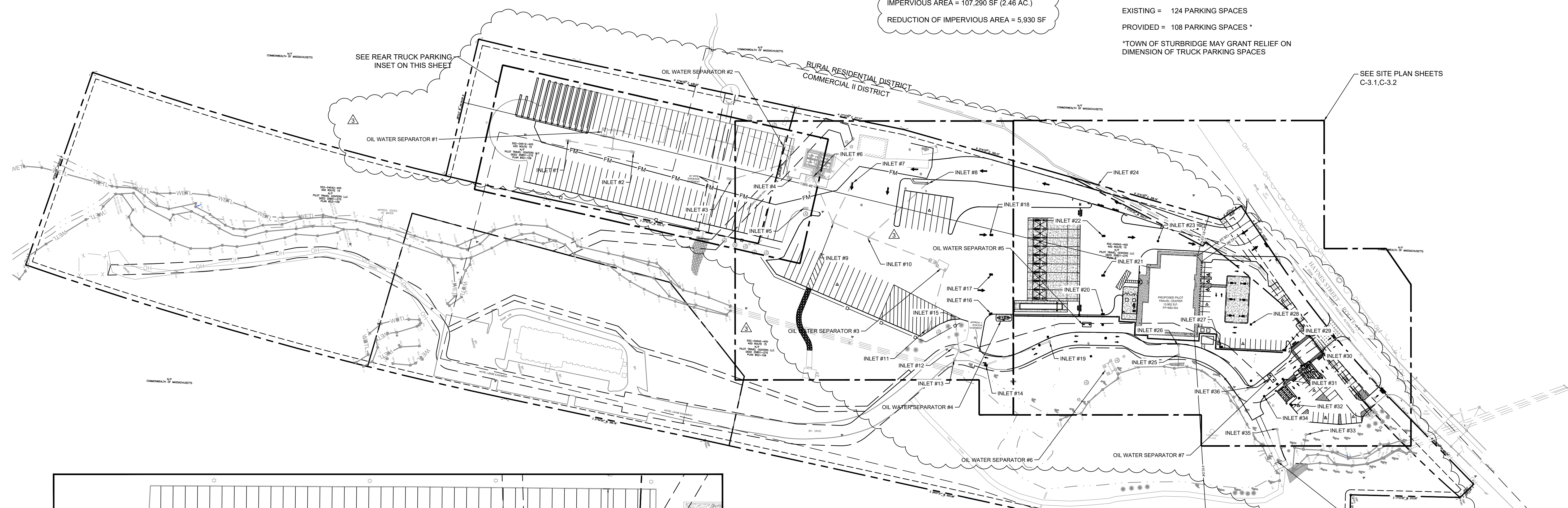
NUMBER OF SEATS = 51
NUMBER OF EMPLOYEES = 10 ON MAX. SHIFT

51 SEATS X (1 SPACE) / (3 SEATS) = 17 SPACES + 10 EMPLOYEES = 27 SPACES REQUIRED

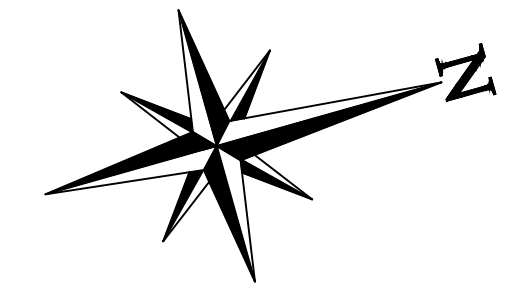
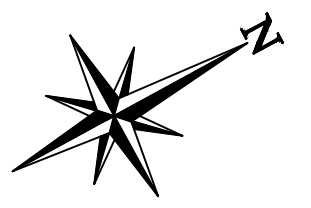
TRUCK PARKING CALCULATION:

EXISTING = 124 PARKING SPACES
PROVIDED = 108 PARKING SPACES

*TOWN OF STURBRIDGE MAY GRANT RELIEF ON DIMENSION OF TRUCK PARKING SPACES



- 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
 - - - - - ZONING BOUNDARY



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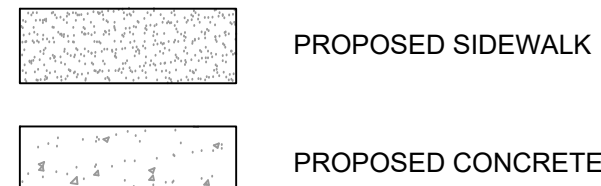
1/9/2020

SHEET TITLE
OVERALL SITE PLAN

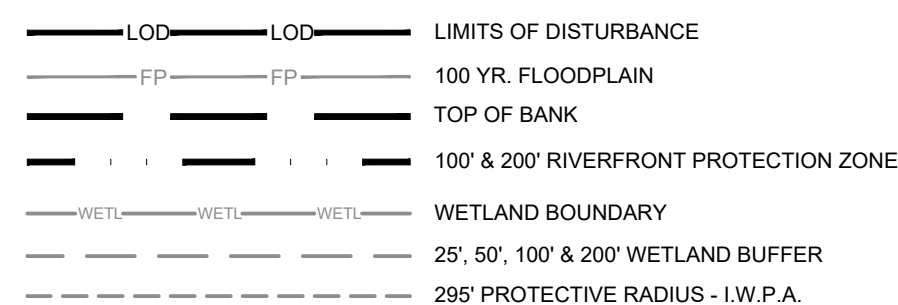
JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C3.0

HATCH LEGEND



WETLAND BUFFER PLAN LEGEND



SIGNAGE KEYNOTES

- 11 "PILOT" GOAL POST SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION INSTALLED BY SIGN SUPPLIER.
12 "TRUCK SCALE" INTERNALLY ILLUMINATED SIGN FURNISHED AND INSTALLED BY TRUCK SCALE SUPPLIER. CONCRETE FOUNDATION BY TRUCK SCALE SUPPLIER. ELECTRICAL PROVIDED TO SCALE BY CONTRACTOR.
13 "AUTO ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
14 "TRUCK ENTRY/EXIT" DIRECTIONAL SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. CONCRETE FOUNDATION.
15 DEF LED PRICER SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
16 "PILOT" CANOPY LOGO FURNISHED AND INSTALLED BY CANOPY SUPPLIER.
17 "PILOT" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
18 "WELCOME DRIVERS" BUILDING SIGN FURNISHED BY OWNER, INSTALLED BY SIGN SUPPLIER.
19 "PJ FRESH" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.
20 "CINNABON" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
21 "AUNTIE ANNE'S" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
22 "SUBWAY" BUILDING SIGN FURNISHED AND INSTALLED BY SIGN SUPPLIER.
23 "PED-XING" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.
24 "ACCESSIBLE PARKING" POLE MOUNTED SIGNS, FURNISHED AND INSTALLED BY CONTRACTOR. (SEE CIVIL DETAILS FOR MOUNTING INSTRUCTIONS).
25 "PASSENGER LOADING ZONE ONLY" SIGN FURNISHED AND INSTALLED BY CONTRACTOR.

KEYED NOTES

- 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.
L. TANK #2, PRODUCT #2 - 12,000 GALLON, 10'-0" DIA. X 37'-10" LONG PORTION OF A 20,000 GALLON DOUBLE-WALL FIBERGLASS SUPER UNLEADED GASOLINE. TO BE INSTALLED BY CONTRACTOR. SEE FUEL PIPING DRAWINGS BY OTHERS.
M. TANK #3, PRODUCT #3 - 8,000 GALLON, 10'-0" DIA. X 37'-10" LONG PORTION OF A 20,000 GALLON DOUBLE-WALL FIBERGLASS SUPER UNLEADED GASOLINE. TO BE INSTALLED BY CONTRACTOR. SEE FUEL PIPING DRAWINGS BY OTHERS.
N. PROPOSED 8" CHAIN LINK FENCE. REFER TO OVERALL SITE PLAN FOR OVERALL LENGTH AND LOCATION OF FENCE.
O. 4,000 GALLON, 6'-0" DIA. X 21'-11" LONG, SINGLE WALL FIBERGLASS UNDERGROUND OIL/WATER SEPARATOR FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. REFER TO OIL/WATER SEPARATOR CONSTRUCTION DETAILS.
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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KNOXVILLE, TN
37909

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Table with 4 columns: REV, DATE, COMMENT, BY. Contains revision history for the site plan.

DOCUMENT
SITE PLAN
APPROVAL

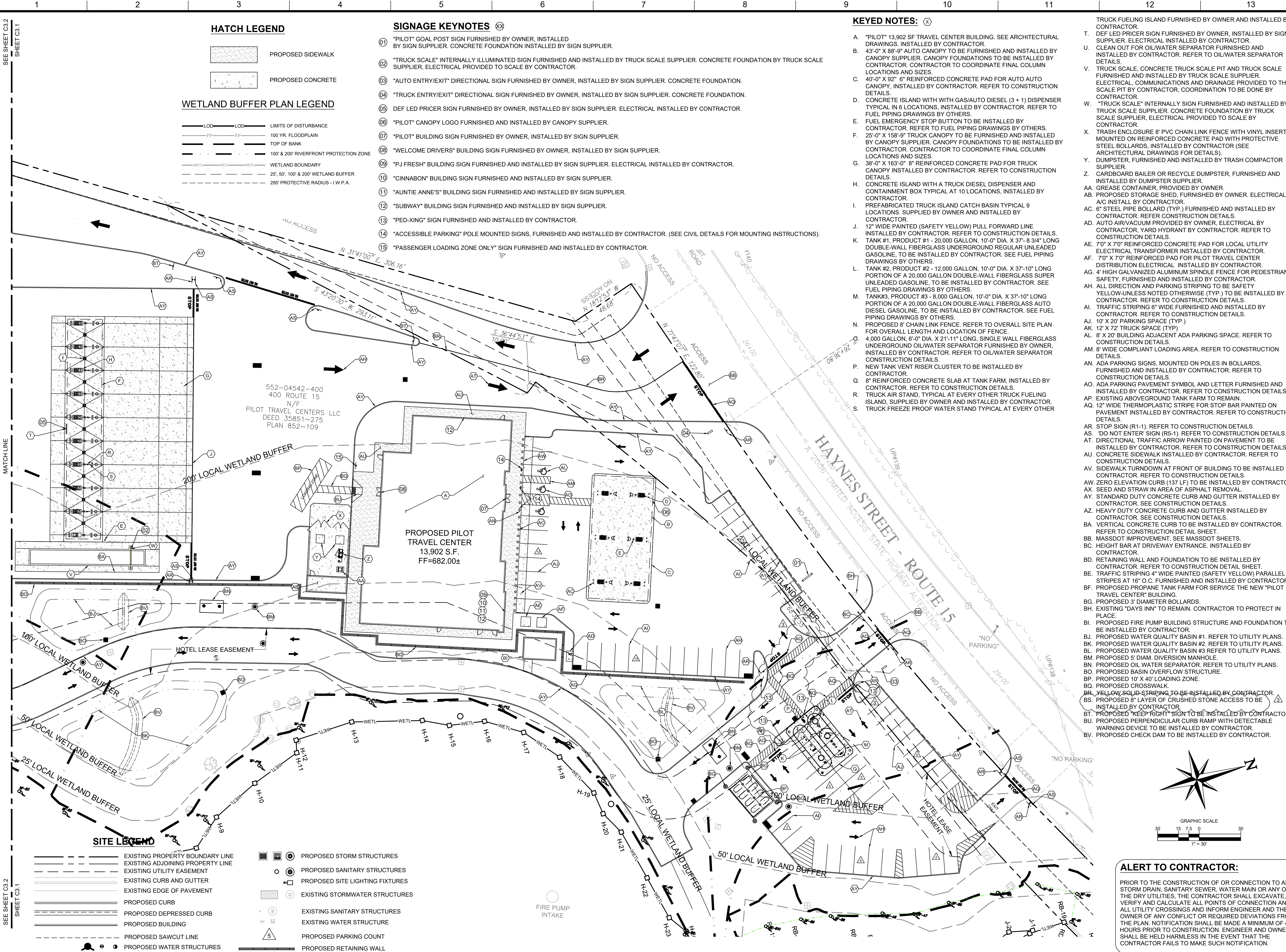
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL
ALAN D. ROSCOE
P.E.
LICENSE # 40163
Professional Engineer Seal for Alan D. Roscoe, P.E., License # 40163, dated 1/9/2020.

SHEET TITLE
SITE PLAN

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

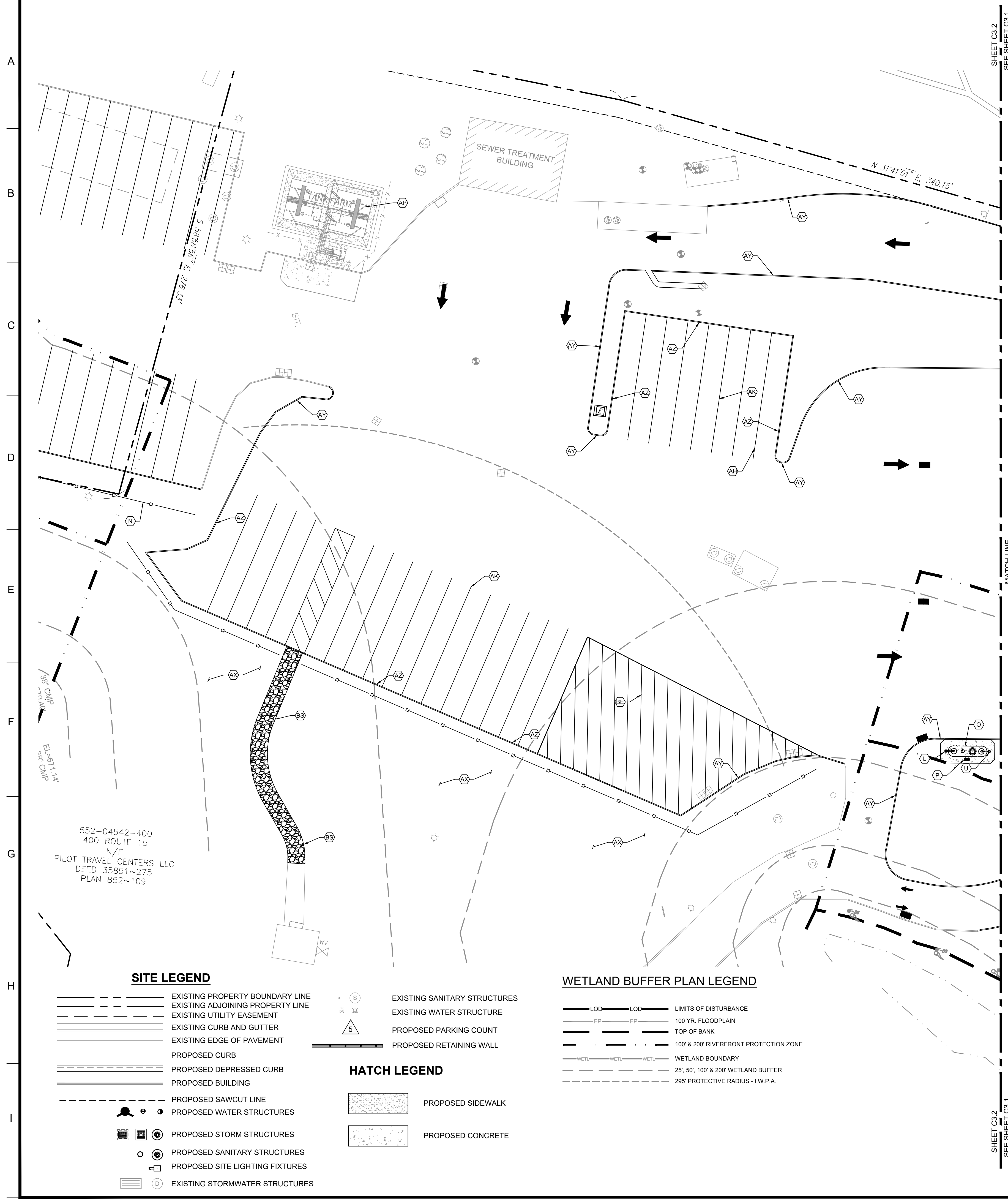
SHEET NO.
C3.1



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Vertical grid lines: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Horizontal grid lines: A, B, C, D, E, F, G, H, I



KEYED NOTES: (X)

A. "PILOT" 13,902 SF TRAVEL CENTER BUILDING. SEE ARCHITECTURAL DRAWINGS. INSTALLED BY CONTRACTOR.

B. 43'-0" X 88'-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'-0" 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.

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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.

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N. PROPOSED 8' CHAIN LINK FENCE. REFER TO OVERALL SITE PLAN FOR OVERALL LENGTH AND LOCATION OF FENCE.

O. 4,000 GALLON, 6'-0" DIA. X 21'-11" LONG, SINGLE WALL FIBERGLASS UNDERGROUND OIL/WATER SEPARATOR FURNISHED BY OWNER. INSTALLED BY CONTRACTOR. REFER TO OIL/WATER SEPARATOR CONSTRUCTION DETAILS.

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.

T. DEF LED PRICER SIGN FURNISHED BY OWNER. INSTALLED BY SIGN SUPPLIER. ELECTRICAL INSTALLED BY CONTRACTOR.

U. CLEAN OUT FOR OIL/WATER SEPARATOR FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO OIL/WATER SEPARATOR DETAILS.

V. TRUCK SCALE, CONCRETE TRUCK SCALE PIT AND TRUCK SCALE FURNISHED AND INSTALLED BY TRUCK SCALE SUPPLIER. ELECTRICAL, COMMUNICATIONS AND DRAINAGE PROVIDED TO THE SCALE PIT BY CONTRACTOR, COORDINATION TO BE DONE BY CONTRACTOR.

W. "TRUCK SCALE" INTERNALLY SIGN FURNISHED AND INSTALLED BY TRUCK SCALE SUPPLIER. CONCRETE FOUNDATION BY TRUCK SCALE SUPPLIER. ELECTRICAL PROVIDED TO SCALE BY CONTRACTOR.

X. TRASH ENCLOSURE 8' PVC CHAIN LINK FENCE WITH VINYL INSERTS MOUNTED ON REINFORCED CONCRETE PAD WITH PROTECTIVE STEEL BOLLARDS. INSTALLED BY CONTRACTOR (SEE ARCHITECTURAL DRAWINGS FOR DETAILS).

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 CONSTRUCTION DETAILS.

AD. AUTO AIR/VACUUM PROVIDED BY OWNER. ELECTRICAL BY CONTRACTOR. YARD HYDRANT BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.

AE. 70" X 70" REINFORCED CONCRETE PAD FOR LOCAL UTILITY ELECTRICAL TRANSFORMER INSTALLED BY CONTRACTOR.

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.

AH. ALL DIRECTION AND PARKING STRIPING TO BE SAFETY YELLOW-UNLESS NOTED OTHERWISE (TYP.) TO BE INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.

AI. TRAFFIC STRIPING 6" WIDE FURNISHED AND INSTALLED BY CONTRACTOR. REFER TO CONSTRUCTION DETAILS.

AJ. 10' X 20' PARKING SPACE (TYP.)

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. 12" 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 INSTALLED BY CONTRACTOR. SEE CONSTRUCTION DETAILS.

AZ. HEAVY DUTY CONCRETE CURB AND GUTTER INSTALLED BY CONTRACTOR. SEE CONSTRUCTION DETAILS.

BA. VERTICAL CONCRETE CURB 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.

BP. PROPOSED 10' X 40' LOADING ZONE.

BQ. PROPOSED CROSSWALK.

BR. YELLOW SOLID STRIPING TO BE INSTALLED BY CONTRACTOR.

BS. PROPOSED 8" LAYER OF CRUSHED STONE ACCESS TO BE INSTALLED BY CONTRACTOR.

BT. PROPOSED "KEEP RIGHT" SIGN TO BE INSTALLED BY CONTRACTOR.

BU. PROPOSED PERPENDICULAR CURB RAMP WITH DETECTABLE WARNING DEVICE TO BE INSTALLED BY CONTRACTOR.

BY. PROPOSED CHECK DAM TO BE INSTALLED BY CONTRACTOR.

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.

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 RETAINING WALL

HATCH LEGEND

PROPOSED SIDEWALK
PROPOSED CONCRETE

WETLAND BUFFER PLAN LEGEND

LIMITS OF DISTURBANCE
100 YR. FLOODPLAIN
TOP OF BANK
100' & 200' RIVERFRONT PROTECTION ZONE
WETLAND BOUNDARY
25', 50', 100' & 200' WETLAND BUFFER
295' PROTECTIVE RADIUS - I.W.P.A.

ALERT TO CONTRACTOR:

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CORE STATES GROUP

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

DOCUMENTS PREPARED BY CORE STATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORE STATES, INC. IS DONE UNLAWFULLY AND AT THE USER'S OWN RISK. IT IS USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED. USER WILL HOLD CORE STATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.

CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.
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 TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

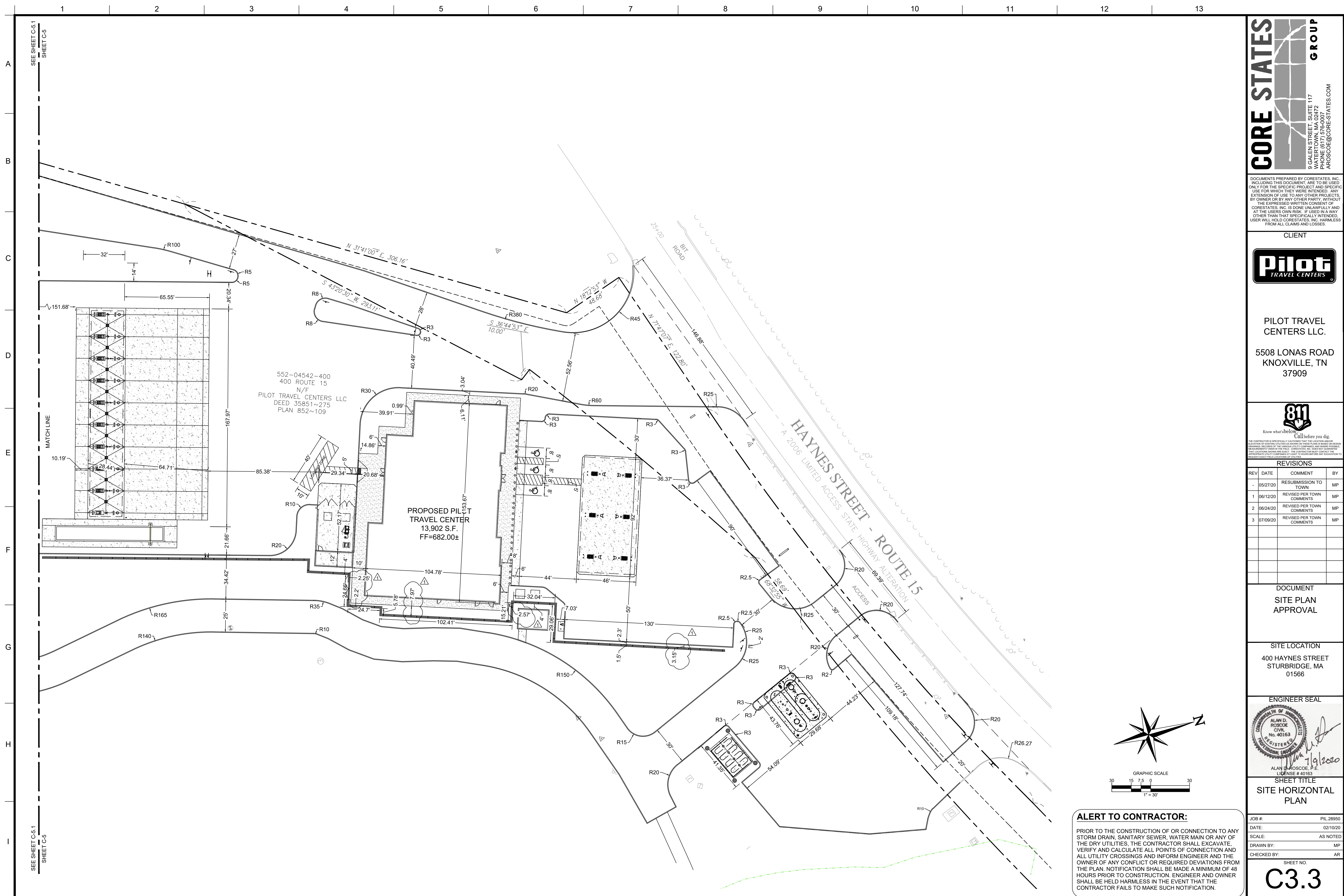
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER

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.
C3.2



SEE SHEET C-5.1
SHEET C-5

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 WATER TOWN, MA 02472
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DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE
 CIVIL
 No. 40163
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ALAN D. ROSCOE, P.E.
 LICENSE # 40163

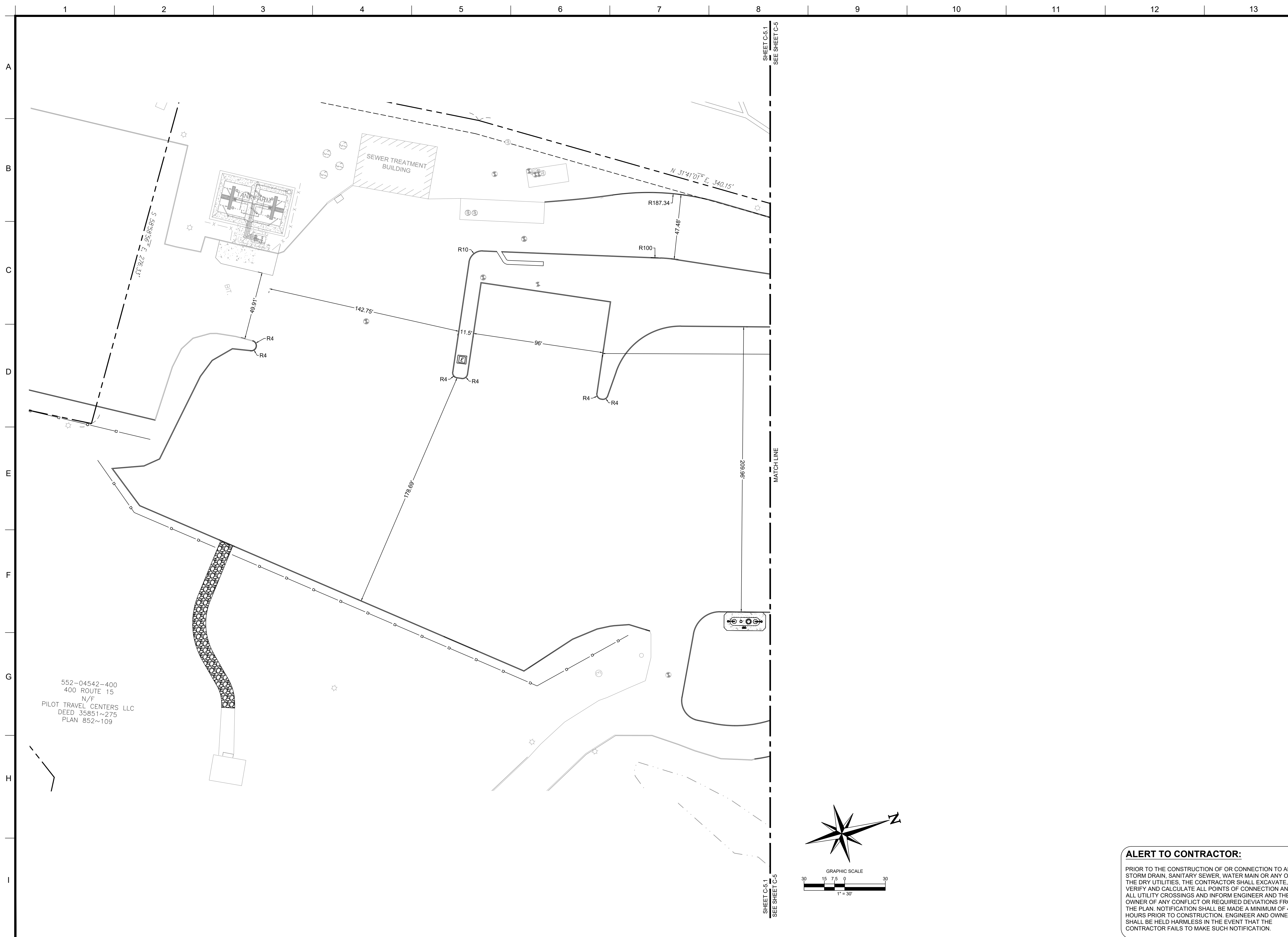
SHEET TITLE
 SITE HORIZONTAL
 PLAN

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

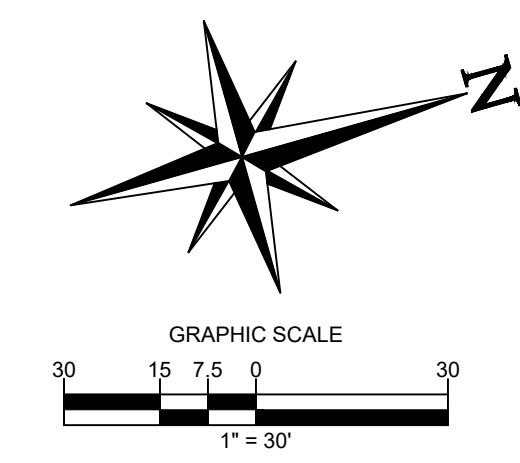
SHEET NO.
C3.3

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



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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 UTILITY (R.U.) COMPANIES AND FIELD MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT GUARANTEE THE LOCATION OR DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES TO VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

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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
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C3.4

WETLAND BUFFER PLAN LEGEND

- LOD — LOD — LIMITS OF DISTURBANCE
- FP — FP — 100 YR. FLOODPLAIN
- — — — — TOP OF BANK
- — — — — 100' & 200' RIVERFRONT PROTECTION ZONE
- WETL — WETL — WETL — WETLAND BOUNDARY
- — — — — 25', 50', 100' & 200' WETLAND BUFFER
- — — — — 285' PROTECTIVE RADIUS - I.W.P.A.

GRADING 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
- — — — — PROPOSED SPOT SHOTS
- — — — — PROPOSED STORM PIPE CALL OUT
- — — — — PROPOSED STORM STRUCTURES NAME
- — — — — EXISTING CURB AND GUTTER
- — — — — EXISTING EDGE OF PAVEMENT
- — — — — PROPOSED CURB
- — — — — PROPOSED BUILDING
- — — — — PROPOSED SIDEWALK
- — — — — PROPOSED CONCRETE
- — — — — PROPOSED STORM STRUCTURES
- — — — — PROPOSED SANITARY STRUCTURES
- — — — — PROPOSED SITE LIGHTING FIXTURES
- — — — — EXISTING STORMWATER STRUCTURES
- — — — — EXISTING SANITARY STRUCTURES
- — — — — EXISTING WATER STRUCTURE
- — — — — EXISTING ELECTRIC STRUCTURE
- — — — — EXISTING GAS MAIN
- — — — — EXISTING WATER MAIN
- — — — — EXISTING UNDERGROUND ELECTRIC
- — — — — EXISTING TELEPHONE
- — — — — EXISTING OVERHEAD WIRES
- — — — — EXISTING SANITARY
- — — — — EXISTING STORM
- — — — — PROPOSED STORM PIPE
- — — — — PROPOSED RIDGE LINE

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

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 5508 LONAS ROAD
 KNOXVILLE, TN
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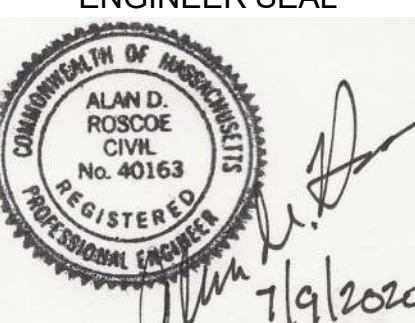

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DOCUMENT
SITE PLAN APPROVAL

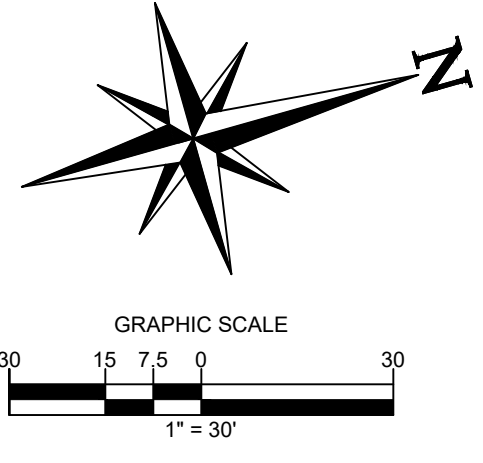
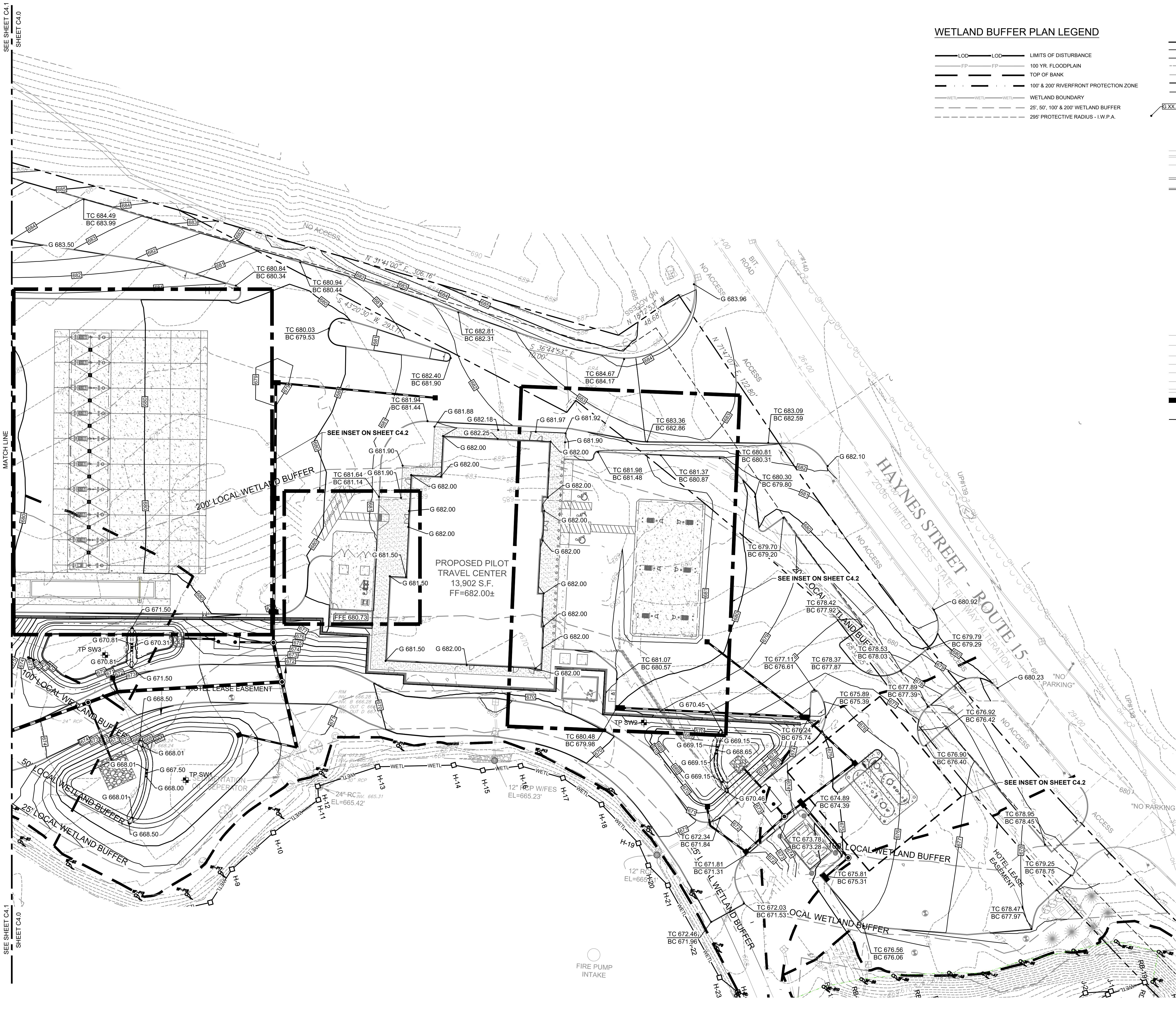
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA
 01566

ENGINEER SEAL

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

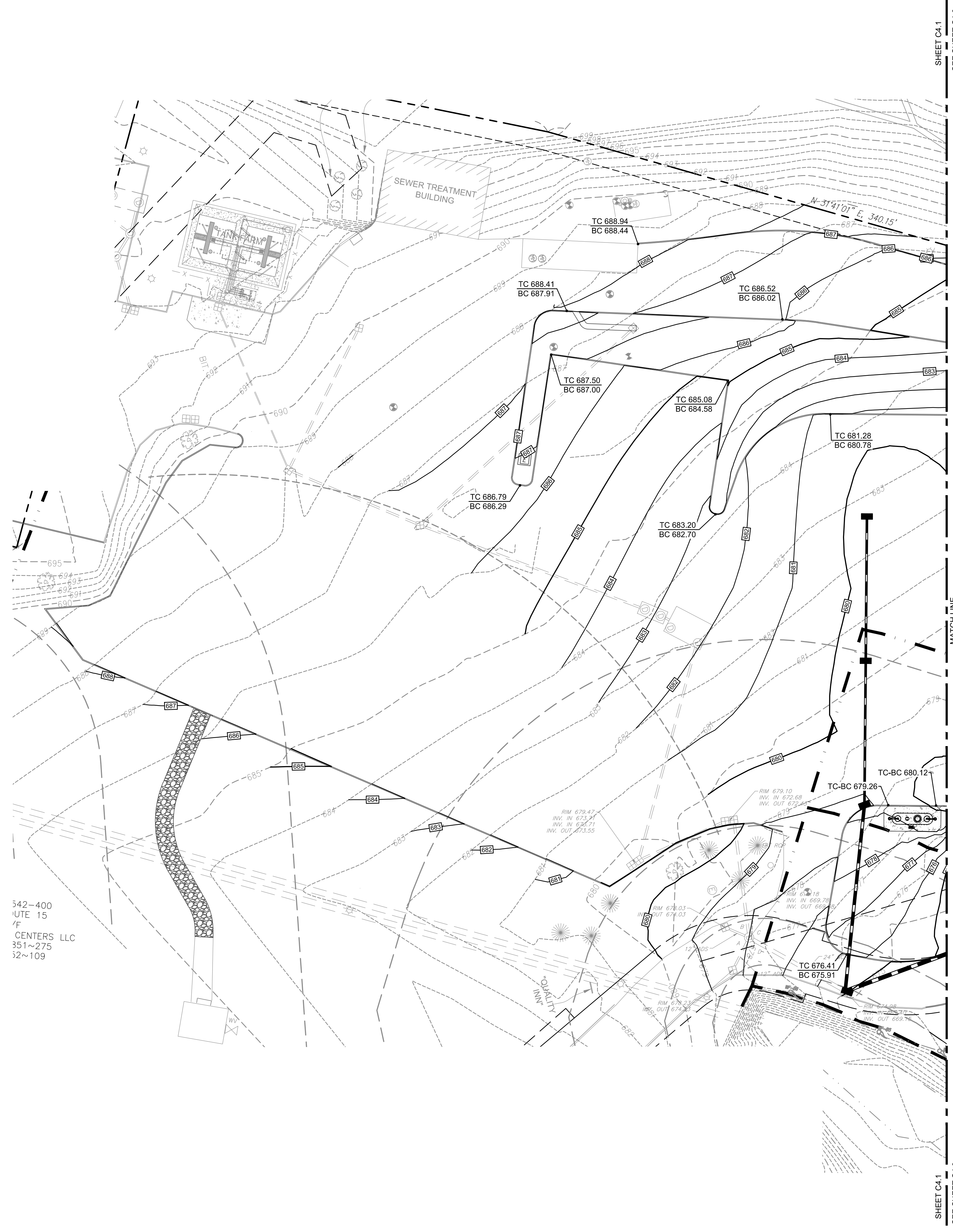
SHEET TITLE
GRADING PLAN

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

SHEET NO.
C4.0



ALERT TO CONTRACTOR:
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GRADING 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
- PROPOSED SPOT SHOTS
- PROPOSED STORM PIPE CALL OUT
- PROPOSED STORM STRUCTURES NAME
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF PAVEMENT
- PROPOSED CURB
- PROPOSED BUILDING
- PROPOSED SIDEWALK
- PROPOSED CONCRETE
- PROPOSED STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED SITE LIGHTING FIXTURES
- EXISTING STORMWATER STRUCTURES
- EXISTING SANITARY STRUCTURES
- EXISTING WATER STRUCTURE
- EXISTING ELECTRIC STRUCTURE
- EXISTING GAS MAIN
- EXISTING WATER MAIN
- EXISTING UNDERGROUND ELECTRIC
- EXISTING TELEPHONE
- EXISTING OVERHEAD WIRES
- EXISTING SANITARY
- EXISTING STORM
- PROPOSED STORM PIPE
- PROPOSED RIDGE LINE

WETLAND BUFFER PLAN LEGEND

- LOD --- LOD --- LIMITS OF DISTURBANCE
- FP --- FP --- 100 YR. FLOODPLAIN
- TOP OF BANK
- 100' & 200' RIVERFRONT PROTECTION ZONE
- WETL --- WETL --- WETLAND BOUNDARY
- 25', 50', 100' & 200' WETLAND BUFFER
- 295' PROTECTIVE RADIUS - I.W.P.A.

GRADING NOTES:

1. ALL PAVING AND GRADING CONSTRUCTION MATERIALS AND METHODS SHALL MEET THE STANDARD SPECIFICATIONS AND REQUIREMENTS OF THE TOWN OF STURBRIDGE, MASSACHUSETTS.
2. 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.
3. 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.
4. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
5. STORM PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS. PRIOR TO FINAL INSPECTION.
6. EXISTING CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
7. PROPOSED CONTOUR INTERVALS SHOWN AT 1.0 FOOT.
8. 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.
9. CONTRACTOR SHALL ADJUST AND/OR CUT EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
10. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
11. 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.
12. 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.
13. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
14. CONTRACTOR TO MAINTAIN 2% MAXIMUM CROSS-SLOPE ON ALL SIDEWALKS AND CROSSWALKS. CONTRACTOR TO MODIFY PAVEMENT GRADES AS NECESSARY TO MAINTAIN MAXIMUM CROSS-SLOPE IN CROSSWALKS.
15. 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.

CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATER TOWN, MA 02472
 PHONE (617) 576-0007
 AROSC@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 TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

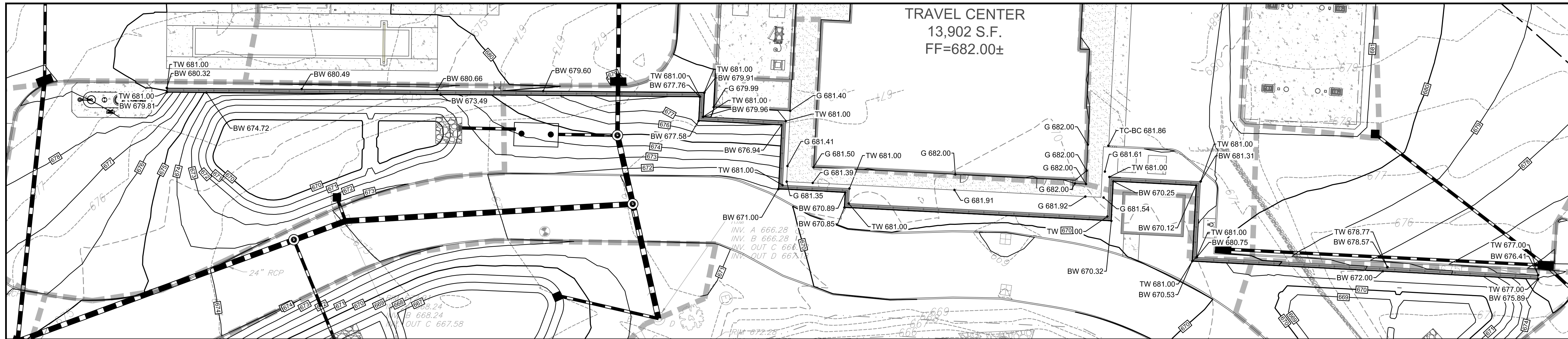
 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
GRADING PLAN

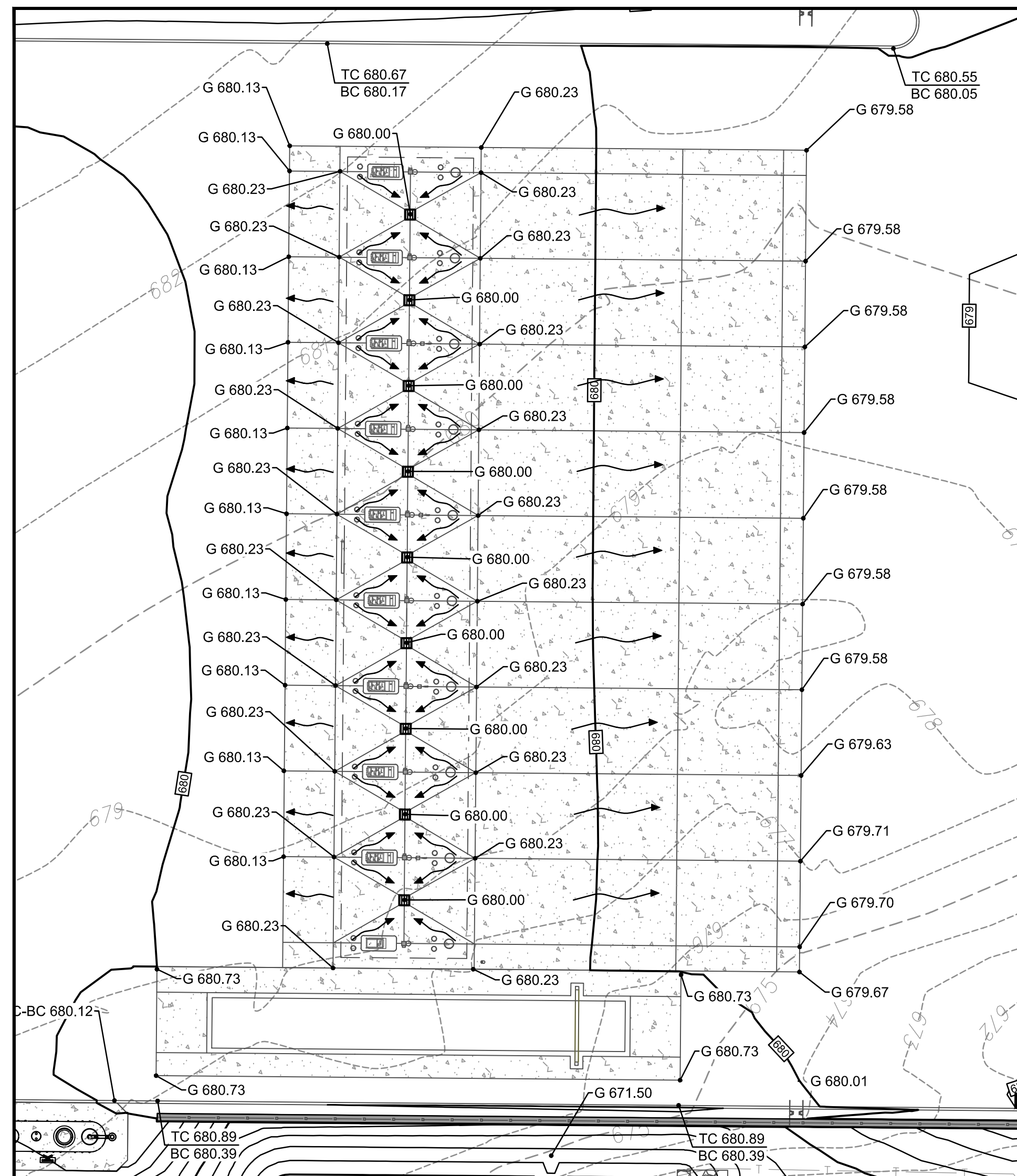
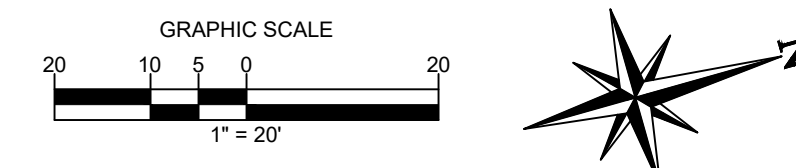
JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C4.1

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.

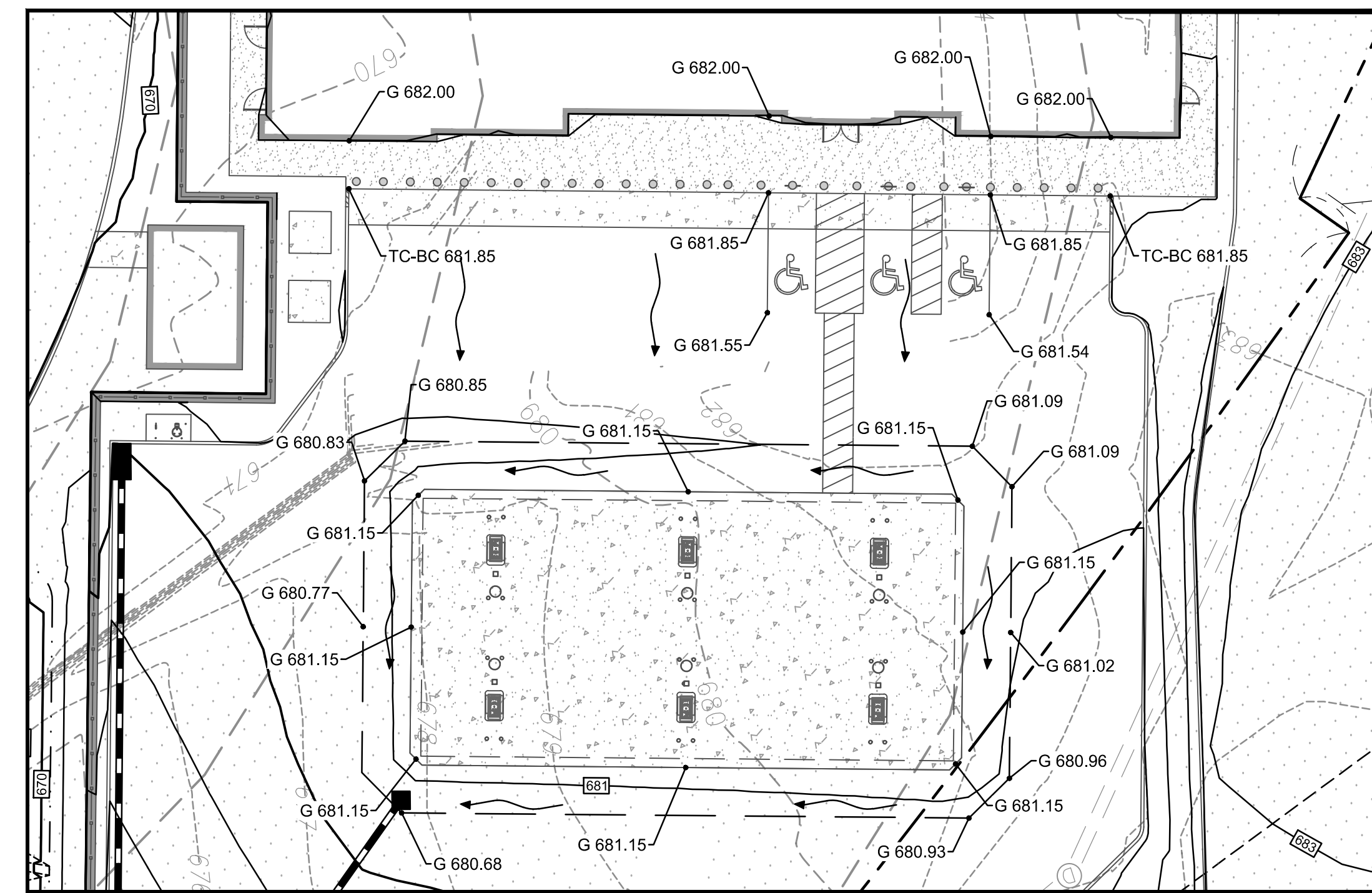


RETAINING WALL INSET
SCALE 1" = 20'

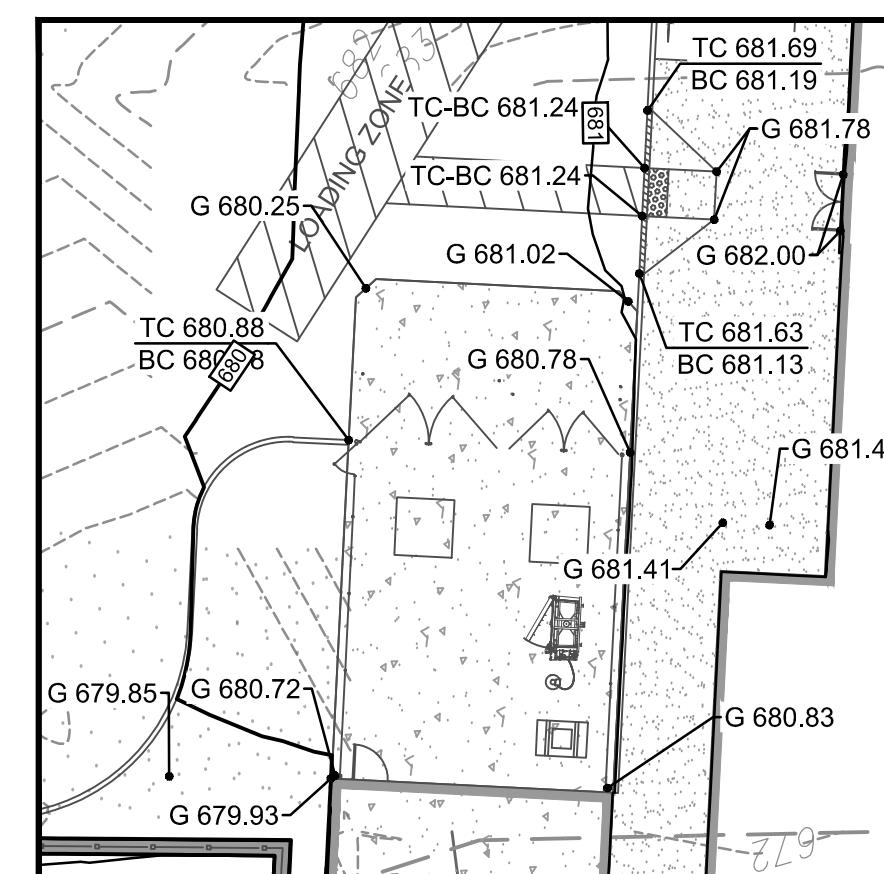
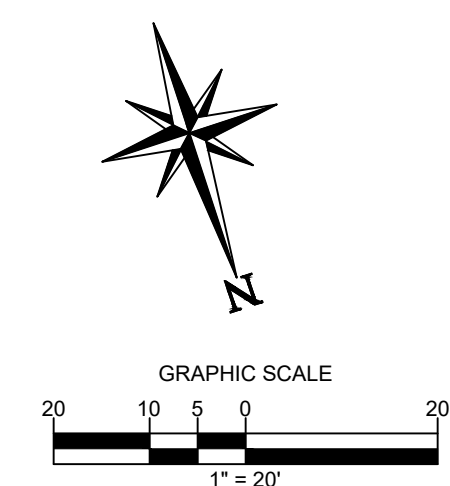


TRUCK CANOPY INSET
SCALE 1" = 20'

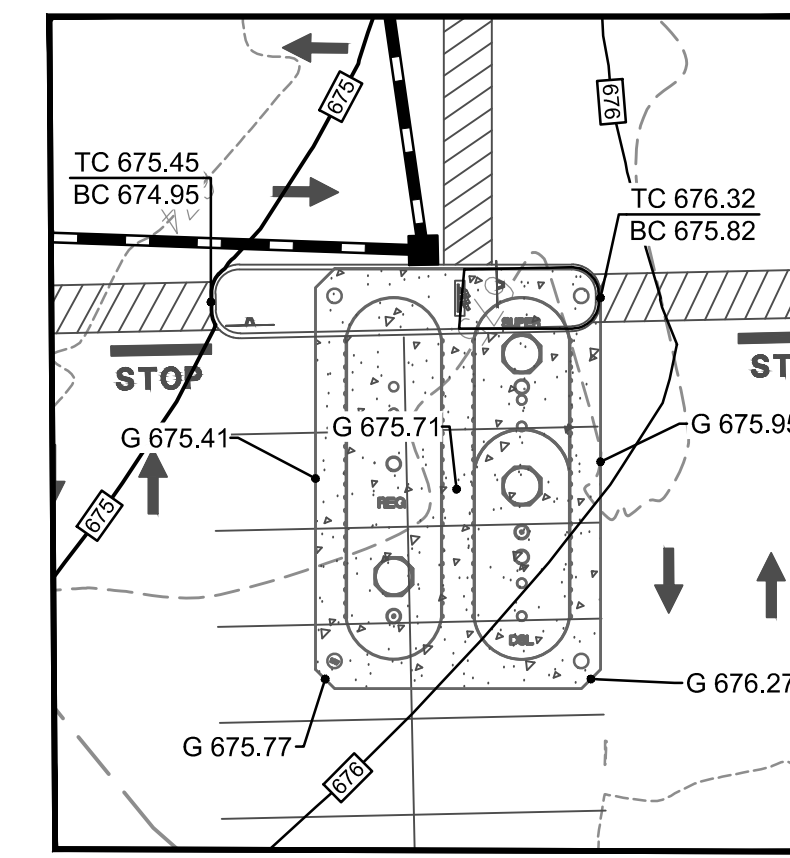
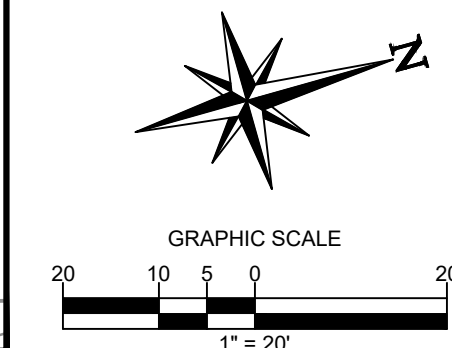
- SITE LEGEND:**
- EXISTING PROPERTY BOUNDARY LINE
 - EXISTING ADJOINING PROPERTY LINE
 - EXISTING ROAD CENTERLINE
 - EXISTING CURB
 - - - - - EXISTING 5' INTERVAL CONTOUR LINE
 - - - - - EXISTING 1' INTERVAL CONTOUR LINE
 - - - - - PROPOSED 5' INTERVAL CONTOUR LINE
 - - - - - PROPOSED 1' INTERVAL CONTOUR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



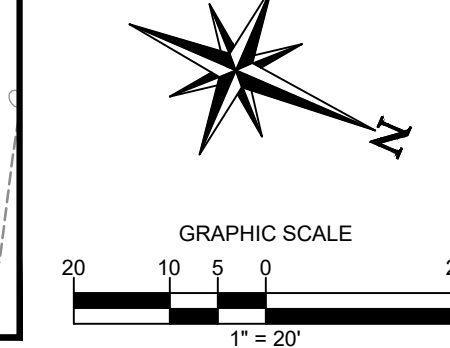
AUTO CANOPY AND ADA INSET
SCALE 1" = 20'



DUMPSTER INSET
SCALE 1" = 20'



UNDERGROUND FUEL TANKS INSET
SCALE 1" = 20'



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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 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 OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES.

REVISIONS				
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DOCUMENT
SITE PLAN
APPROVAL

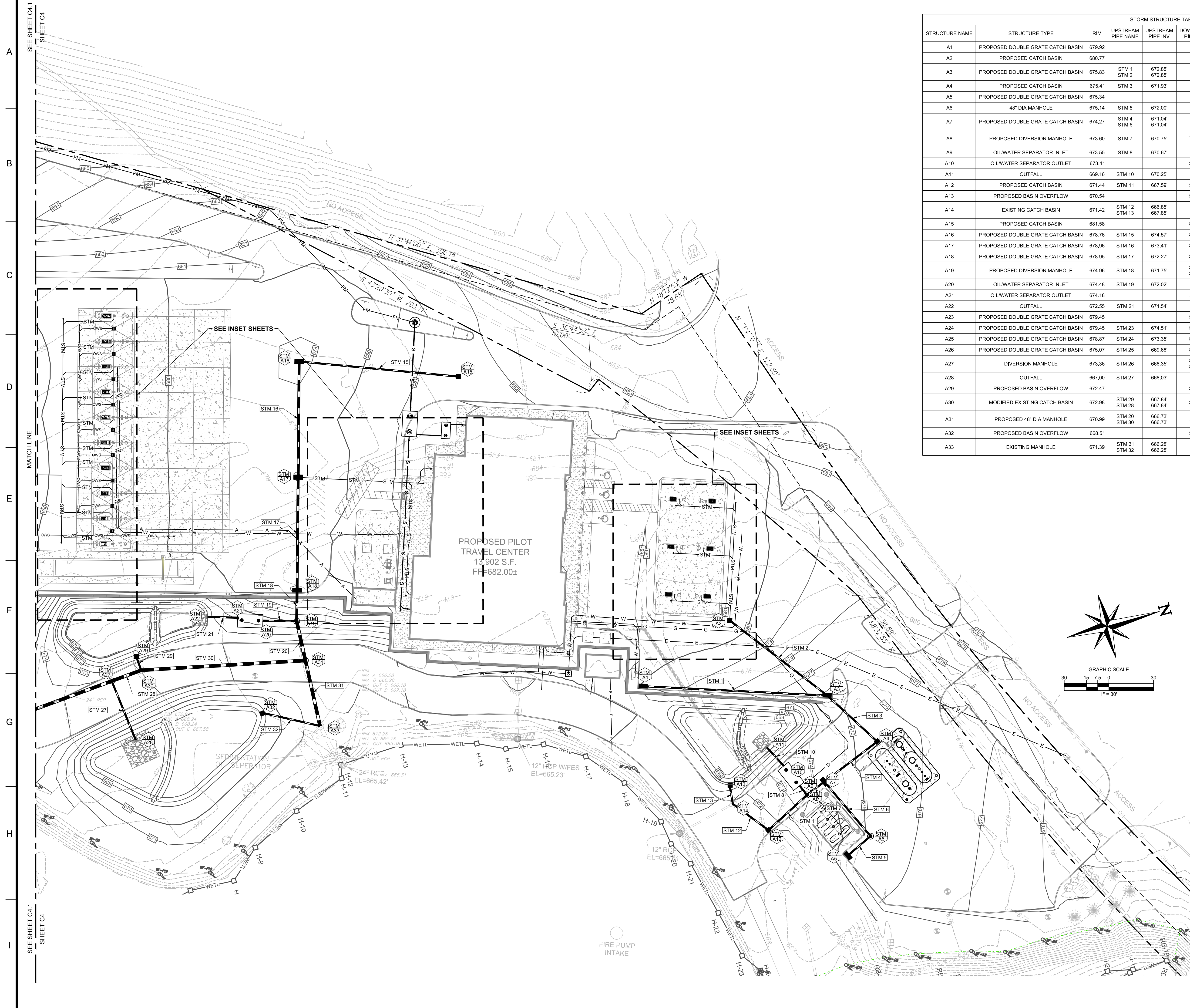
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

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

SHEET TITLE
DETAILED
GRADING
PLAN

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

SHEET NO.
C4.2



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	680.77			STM 2	674.15'	82.66'	12" HDPE	1.58%
A3	PROPOSED DOUBLE GRATE CATCH BASIN	675.83	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'		670.75'	7.94'	12" HDPE	1.00%
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	675.11'	107.31'	12" RCP CLASS III	0.50%
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	674.96	STM 18	671.75'	STM 20	667.00'	27.01'	24" RCP CLASS IV	1.00%
A20	OIL/WATER SEPARATOR INLET	674.48	STM 19	672.02'	STM 19	672.25'	22.70'	12" HDPE	1.00%
A21	OIL/WATER SEPARATOR OUTLET	674.18			STM 21	671.75'	20.71'	12" HDPE	1.00%
A22	OUTFALL	672.55	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	667.00	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	667.84'	STM 28	667.84'	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	668.51			STM 32	666.68'	39.60'	12" HDPE	1.00%
A33	EXISTING MANHOLE	671.39	STM 31	666.28'	STM 32	666.28'			

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CLIENT

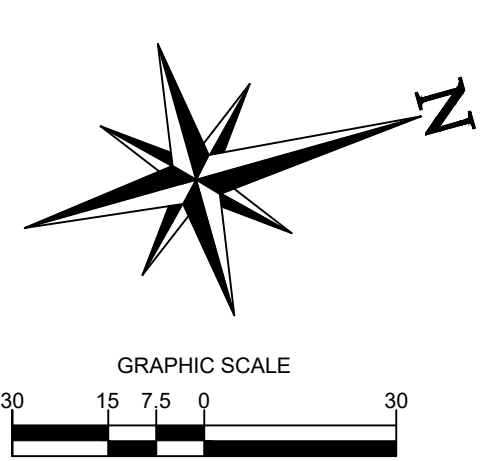
Pilot TRAVEL CENTERS

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

Know what's below. Call before you dig.

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
- [W] [S] [E] [T] [OH] [S] [W] [FM] [S] PROPOSED WATER STRUCTURES
- [STM] [A] [M] [W] [S] [E] [T] [OH] [S] [W] [FM] [S] PROPOSED STORM STRUCTURES
- [L] [H] [T] [OH] [S] [W] [FM] [S] PROPOSED SANITARY STRUCTURES
- [L] [H] [T] [OH] [S] [W] [FM] [S] PROPOSED SITE LIGHTING FIXTURES
- [S] [W] [FM] [S] EXISTING STORMWATER STRUCTURES
- [S] [W] [FM] [S] EXISTING SANITARY STRUCTURES
- [S] [W] [FM] [S] EXISTING WATER STRUCTURE
- [S] [W] [FM] [S] EXISTING ELECTRIC STRUCTURE
- G G EXISTING GAS MAIN
- W W EXISTING WATER MAIN
- E E EXISTING UNDERGROUND ELECTRIC
- T T EXISTING TELEPHONE
- OH OH EXISTING OVERHEAD WIRES
- S S EXISTING SANITARY
- EXISTING STORM
- PROPOSED STORM PIPE
- W W PROPOSED WATER
- FM FM PROPOSED SANITARY FORCEMAIN
- S S PROPOSED SANITARY



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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
STORM DRAINAGE PLAN

JOB #: PIL 28950
 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
SHEET C4.1
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
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A3	PROPOSED DOUBLE GRATE CATCH BASIN	675.83	STM 1	672.85'	STM 3	672.85'	45.63'	12" HDPE	2.00%
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A7	PROPOSED DOUBLE GRATE CATCH BASIN	674.27	STM 6	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%
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A18	PROPOSED DOUBLE GRATE CATCH BASIN	678.95	STM 17	672.27'	STM 18	672.27'	20.66'	18" RCP CLASS IV	2.50%
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- PROPOSED STORM PIPE
- W --- PROPOSED WATER
- FM --- PROPOSED SANITARY FORCEMAIN
- S --- PROPOSED SANITARY

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 PHONE (617) 576-0007
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CLIENT

Pilot TRAVEL CENTERS

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

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REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
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3	07/09/20	REVISED PER TOWN COMMENTS	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

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.

SITE LEGEND

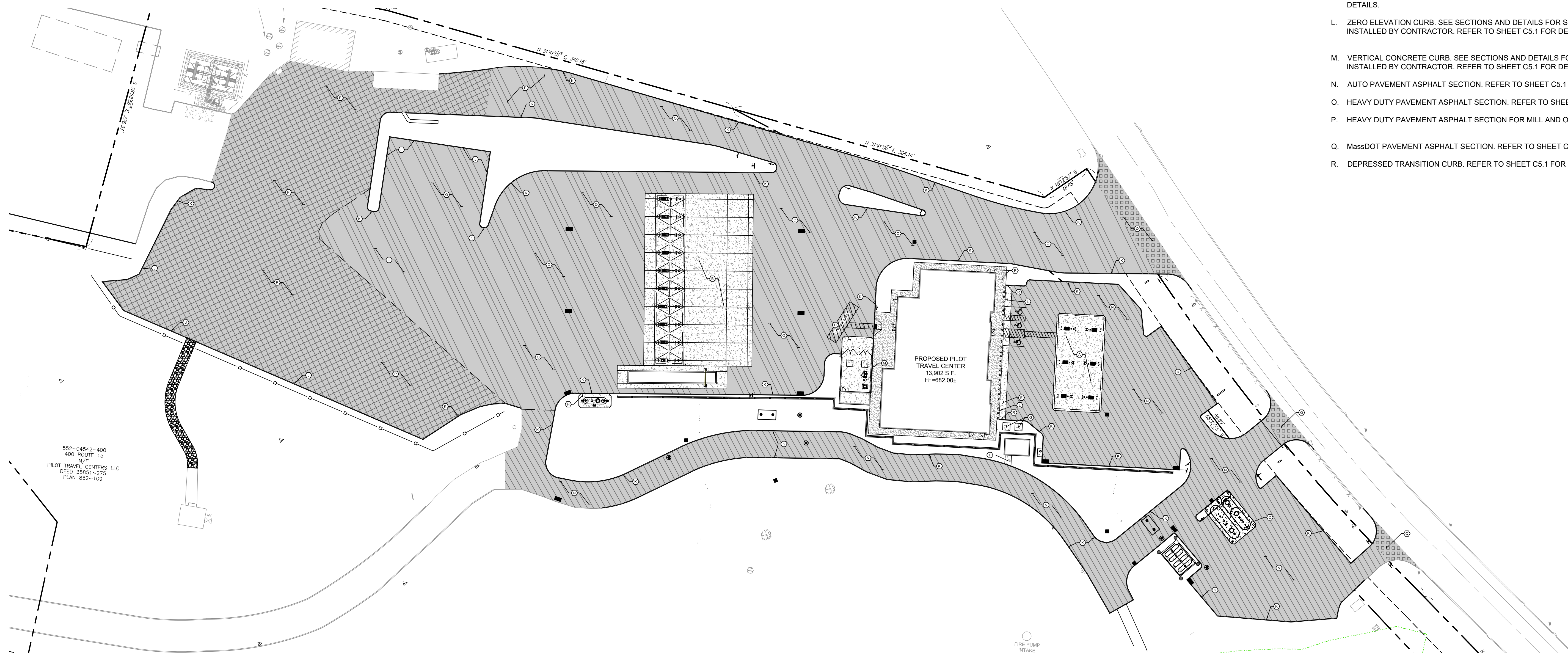
- EXISTING PROPERTY BOUNDARY LINE
- - - EXISTING ADJOINING PROPERTY LINE
- - - EXISTING UTILITY EASEMENT
- ==== EXISTING CURB AND GUTTER
- ==== EXISTING EDGE OF PAVEMENT
- ==== PROPOSED CURB
- ==== PROPOSED DEPRESSED CURB
- ==== PROPOSED BUILDING
- - - PROPOSED SAWCUT LINE
- PROPOSED WATER STRUCTURES
- 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] PROPOSED HEAVY DUTY TRUCK PAVEMENT FOR MILL AND OVERLAY

KEYED NOTES:

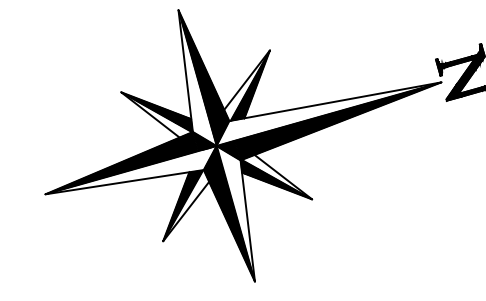
- A. 6" REINFORCED CONCRETE PAD FOR AUTO CANOPY. WATER FROM SITE SHOULD NOT DRAIN ACROSS THE CONCRETE PAD FOR THE AUTO CANOPY. ASPHALT PAVING ON ALL (4) SIDES OF THE CONCRETE PAD SHOULD DRAIN AWAY FROM CONCRETE PAD. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS, INSTALLED BY CONTRACTOR.
- B. 8" REINFORCED 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 C5.1 FOR DETAILS.
- K. STANDARD DUTY CURB AND GUTTER. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS, INSTALLED BY CONTRACTOR. REFER TO SHEET C5.1 FOR DETAILS.
- L. ZERO ELEVATION CURB. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS, INSTALLED BY CONTRACTOR. REFER TO SHEET C5.1 FOR DETAILS.
- M. VERTICAL CONCRETE CURB. SEE SECTIONS AND DETAILS FOR SPECIFICATIONS, INSTALLED BY CONTRACTOR. REFER TO SHEET C5.1 FOR DETAILS.
- N. AUTO PAVEMENT ASPHALT SECTION. REFER TO SHEET C5.1 FOR DETAILS.
- O. HEAVY DUTY PAVEMENT ASPHALT SECTION. REFER TO SHEET C5.1 FOR DETAILS.
- P. HEAVY DUTY PAVEMENT ASPHALT SECTION FOR MILL AND OVERLAY.
- Q. MassDOT PAVEMENT ASPHALT SECTION. REFER TO SHEET CXX FOR DETAILS.
- R. DEPRESSED TRANSITION CURB. REFER TO SHEET C5.1 FOR DETAILS.



552-04543-400
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±

FIRE PUMP INTAKE



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

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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/or depth of existing utilities shown on these plans is based on the best available records of the records (111) numbers are shown for informational 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

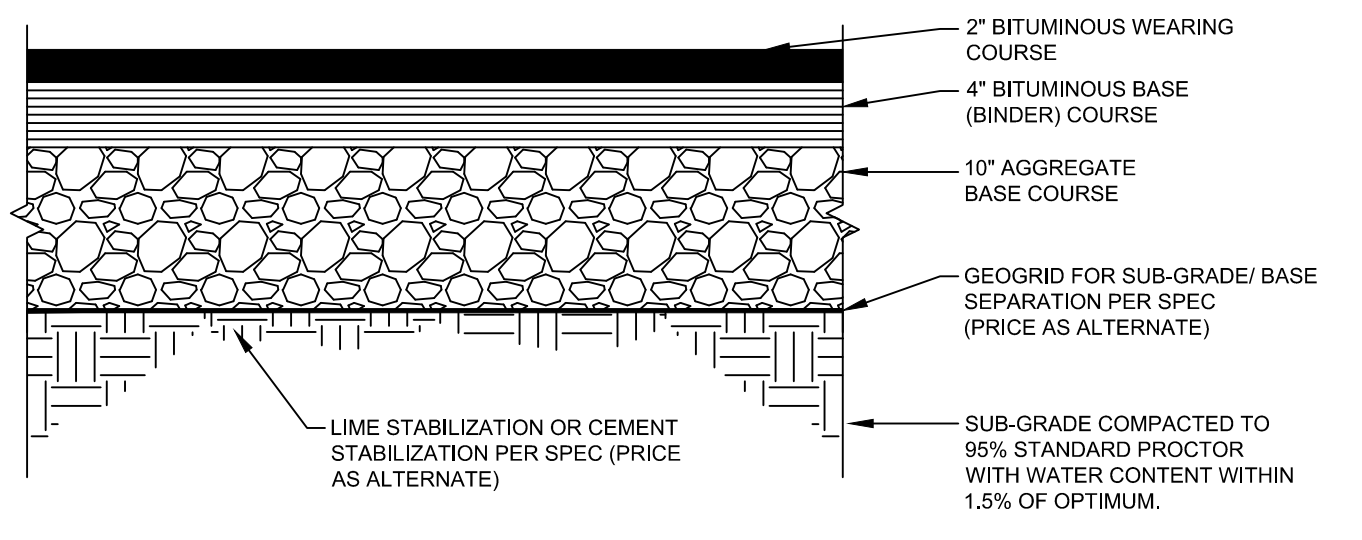
ENGINEER SEAL
ALAN D. ROSCOE
CIVIL
No. 40163
REGISTERED PROFESSIONAL ENGINEER
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
SITE PAVING
PLAN

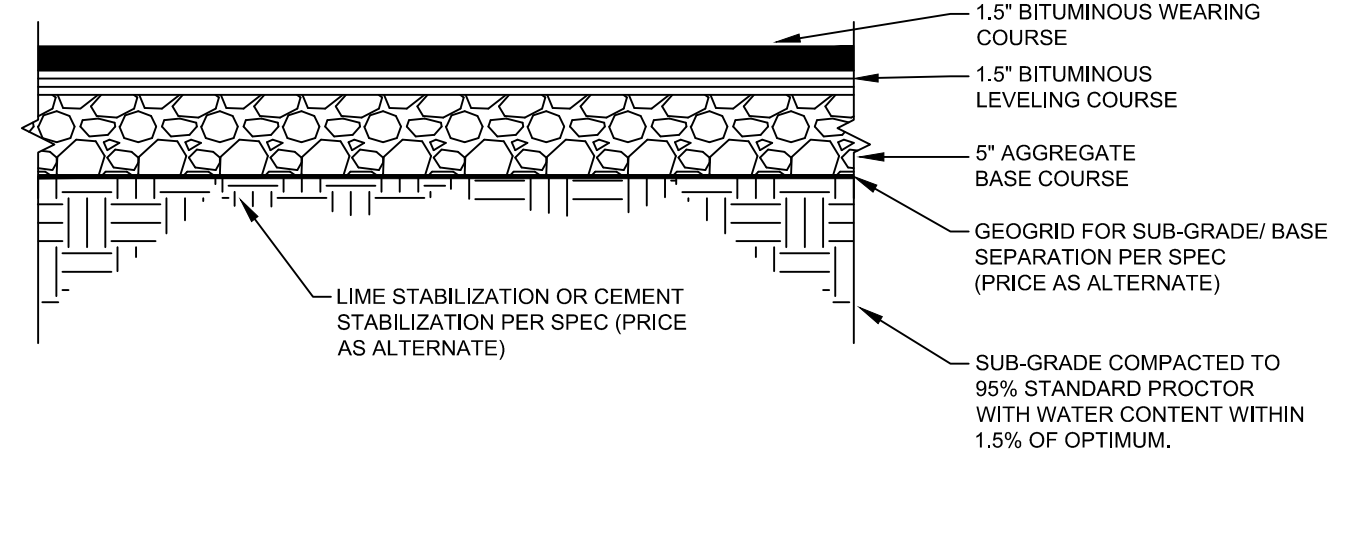
JOB #: PIL-28950
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SHEET NO.
C5.0

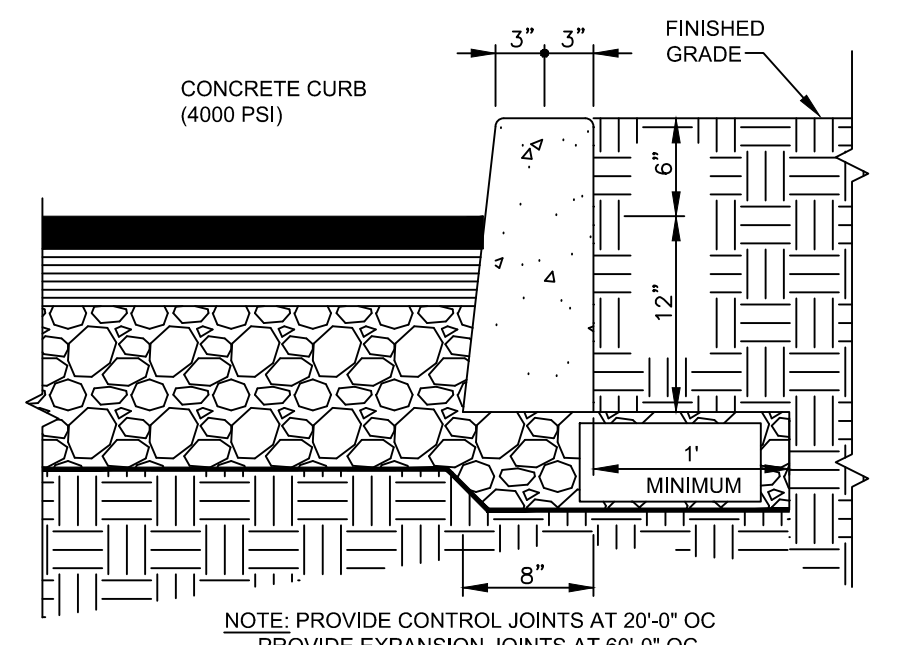
CONTRACTOR NOTE: CONTRACTOR SHALL PROVIDE A PRICE FOR EACH GEOGRID AND STABILIZATION ALTERNATE AS OUTLINED IN THE SPECIFICATIONS MANUAL, BUT CONTRACTOR SHALL NOT INCLUDE ANY OF THE ALTERNATES IN THE BASE BID. OWNER'S REPRESENTATIVE SHALL CHOOSE AN ALTERNATE.



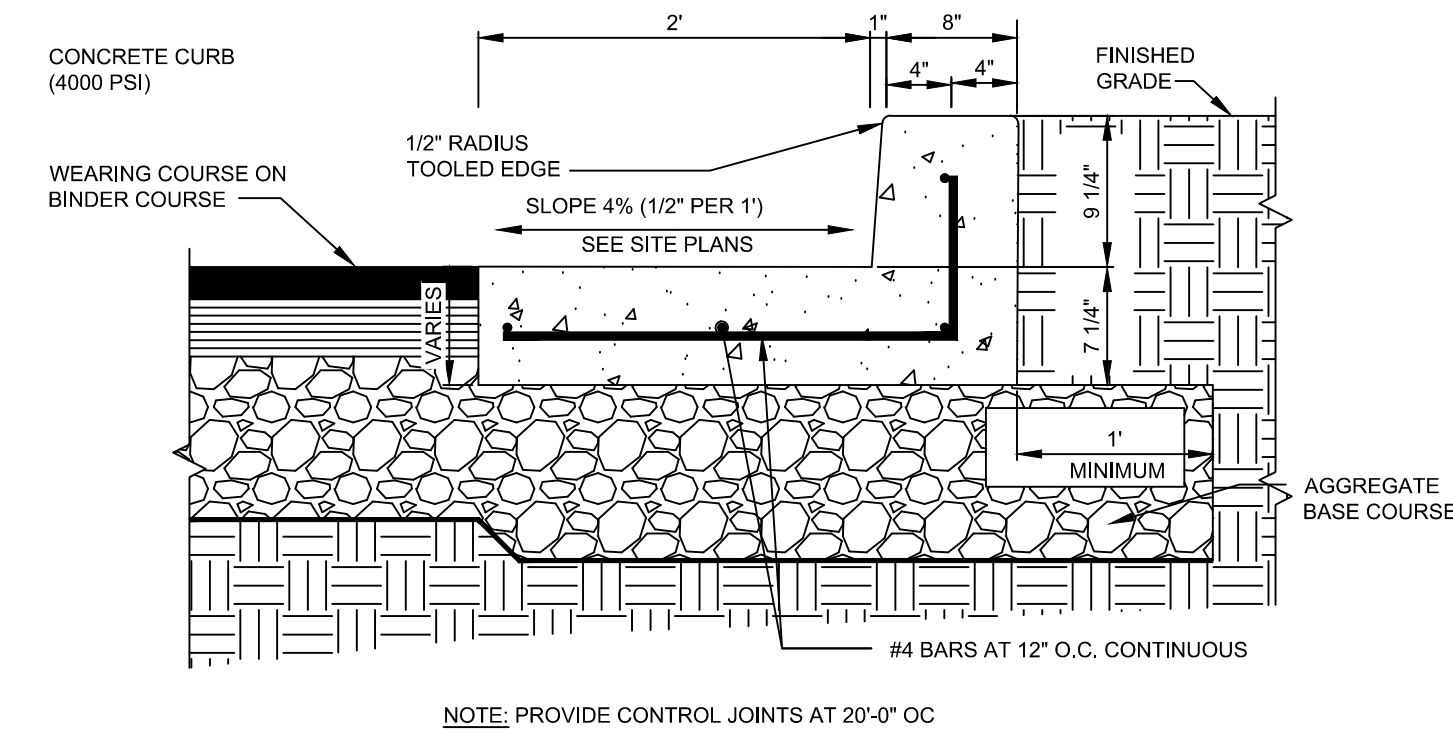
HEAVY DUTY TRUCK PAVEMENT SECTION
NTS



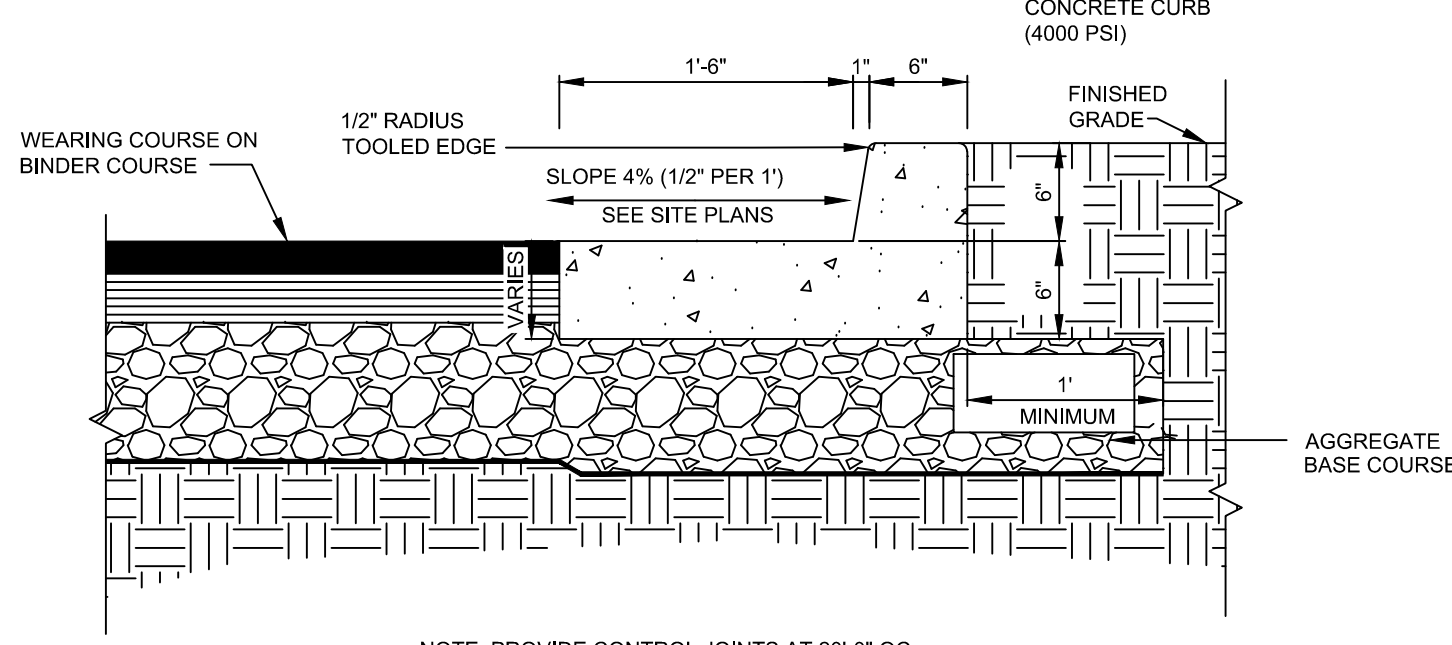
AUTO PAVEMENT SECTION
NTS



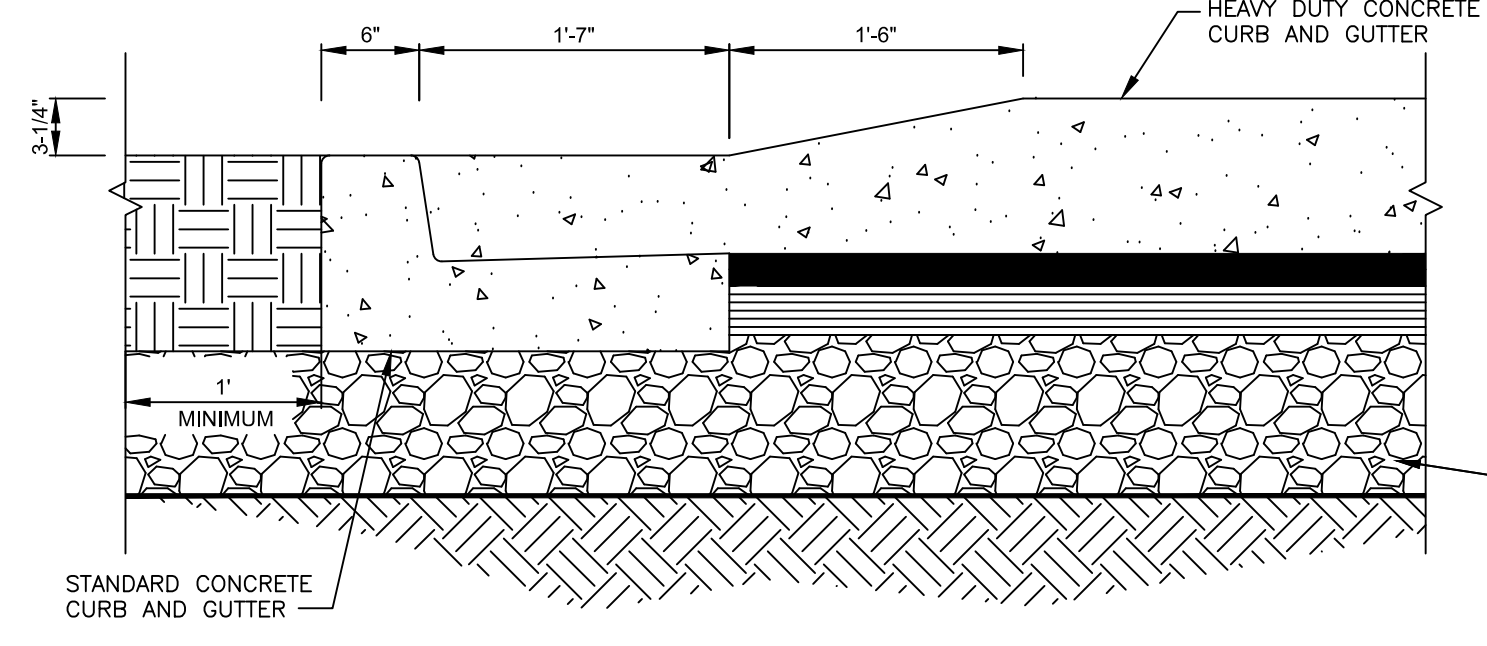
VERTICAL CONCRETE CURB
NTS



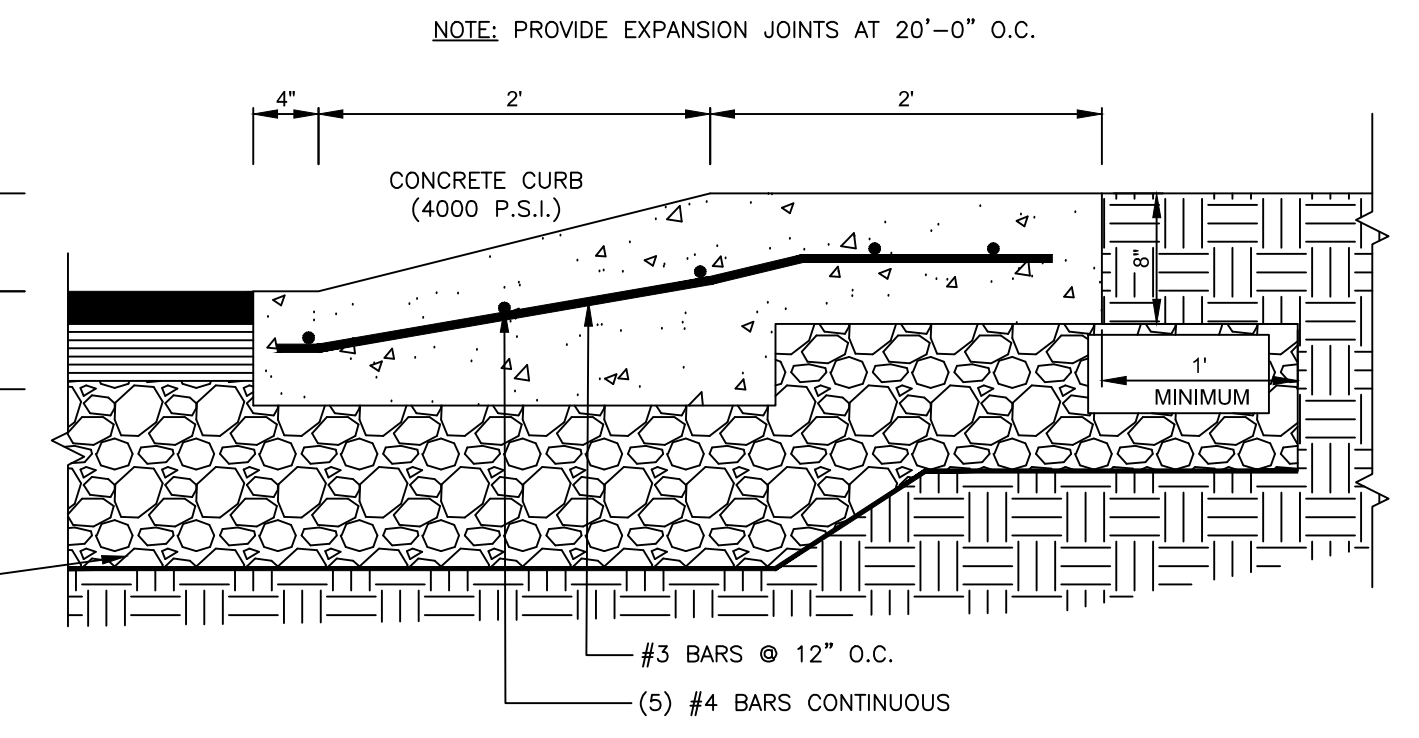
HEAVY DUTY CONCRETE CURB AND GUTTER
NTS



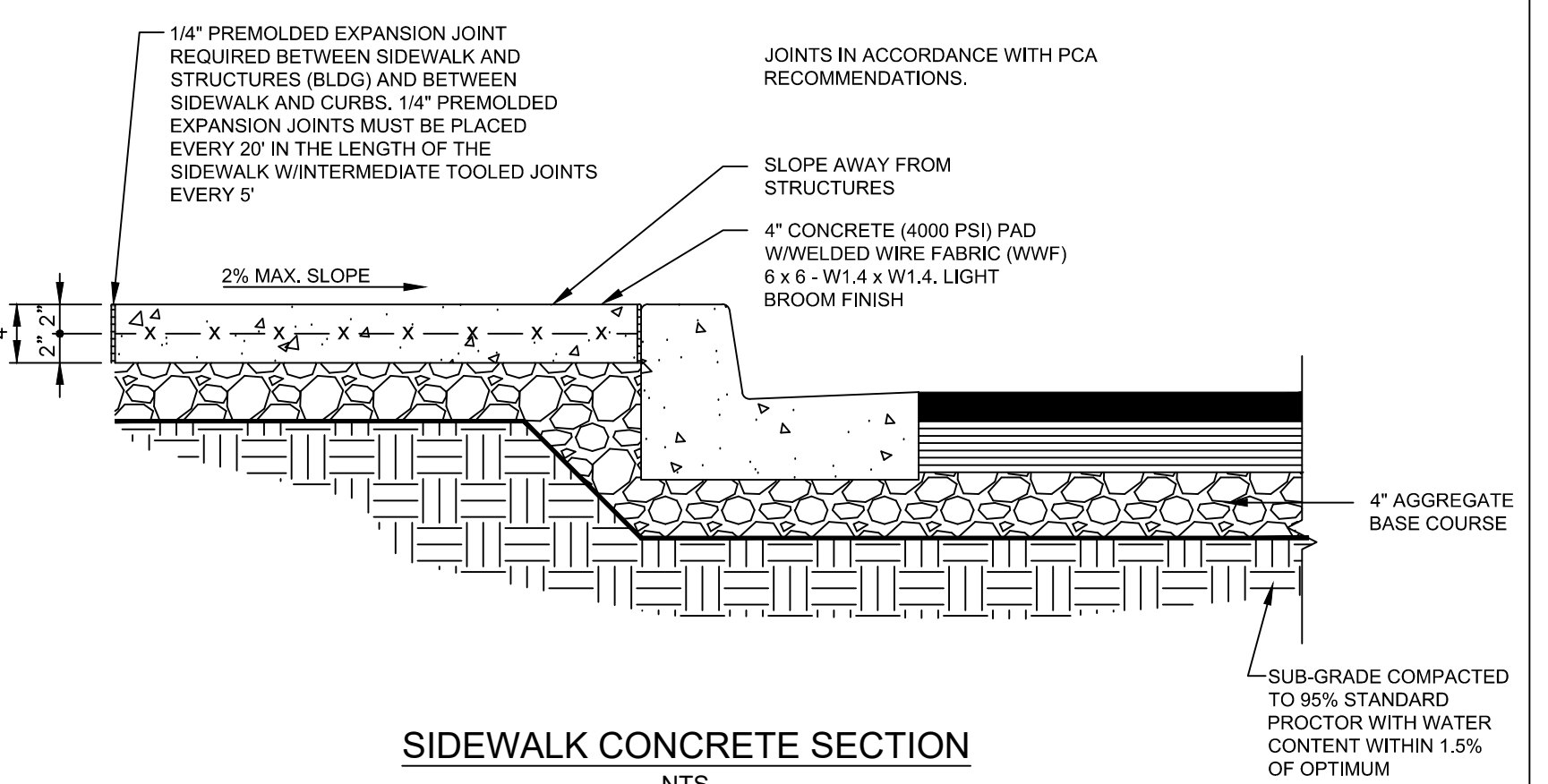
STANDARD CONCRETE CURB AND GUTTER DETAIL
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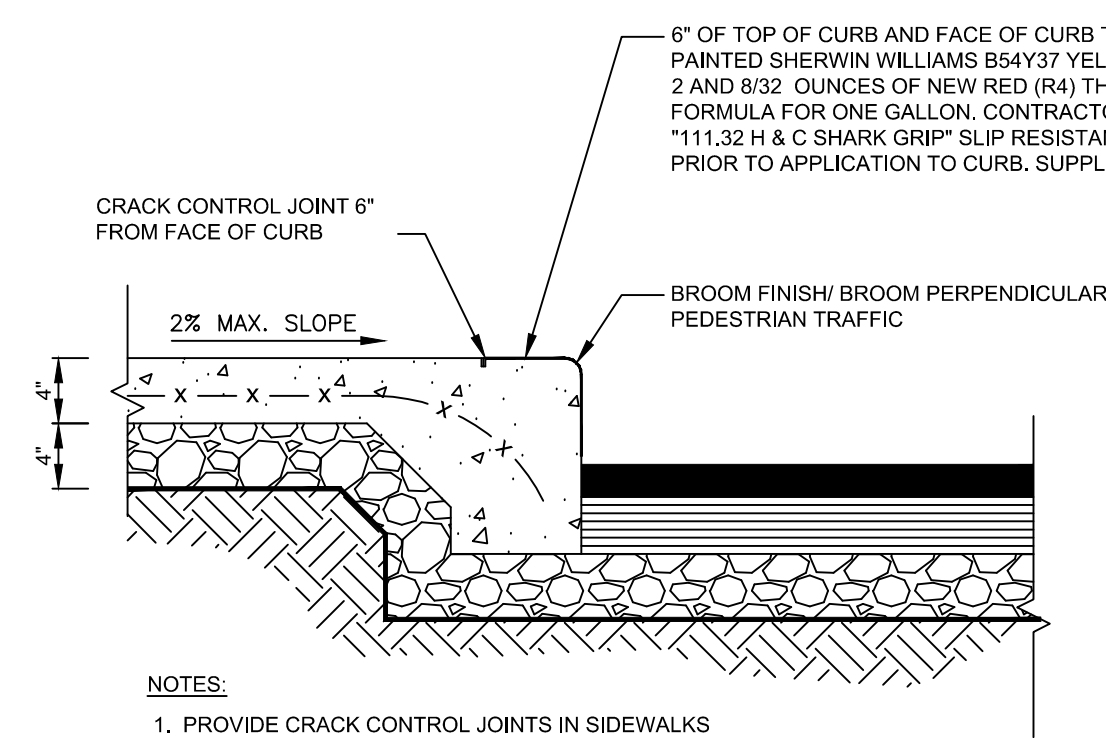
CURB TRANSITION DETAIL
NTS



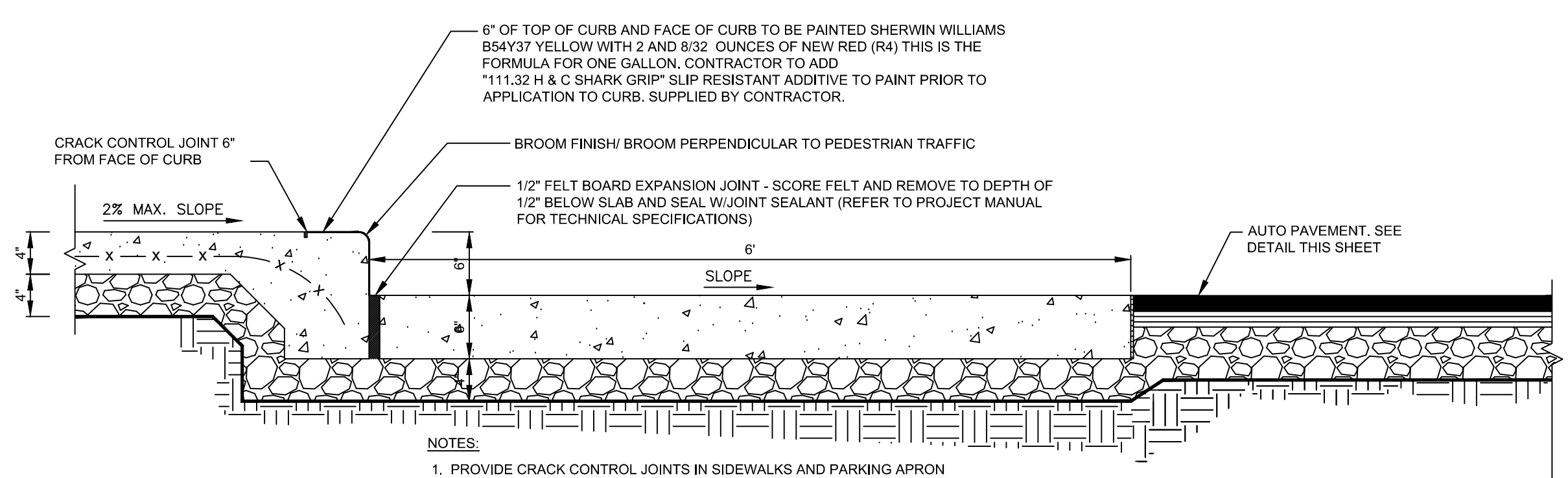
ROLLOVER CONCRETE CURB DETAIL
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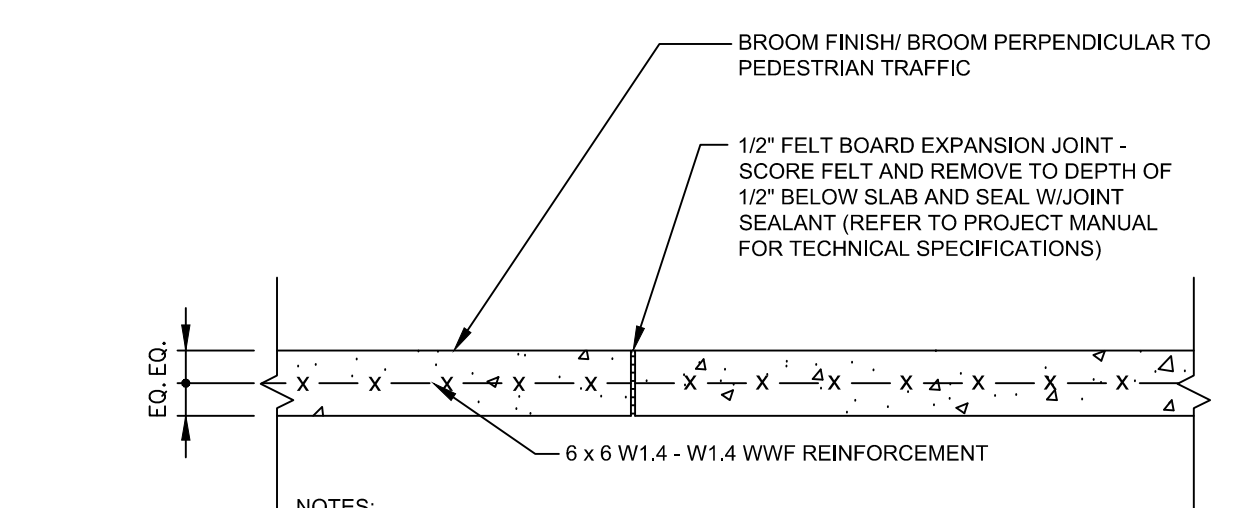
SIDEWALK CONCRETE SECTION
NTS



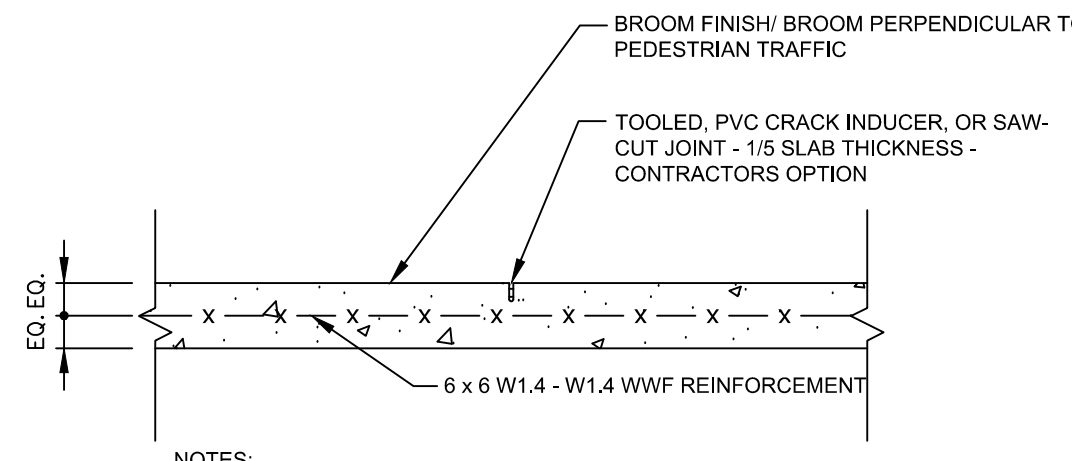
SIDEWALK TURNDOWN DETAIL
NTS



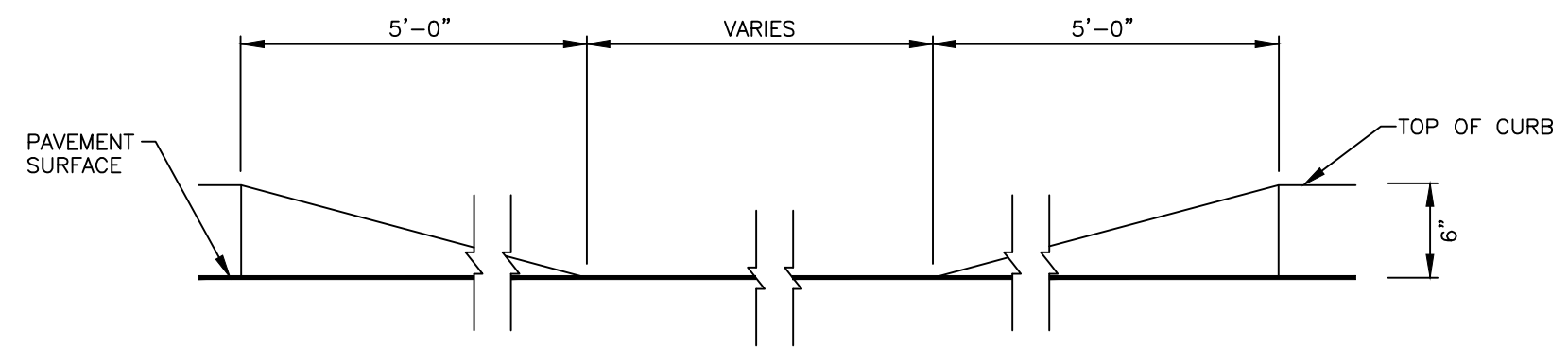
SIDEWALK TURNDOWN DETAIL AT FRONT OF BUILDING
NTS



EXPANSION JOINT DETAIL
NTS



CRACK CONTROL JOINT DETAIL
NTS



DEPRESSED CURB DETAIL
NTS

CORE STATES GROUP
9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
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DOCUMENT SITE PLAN APPROVAL

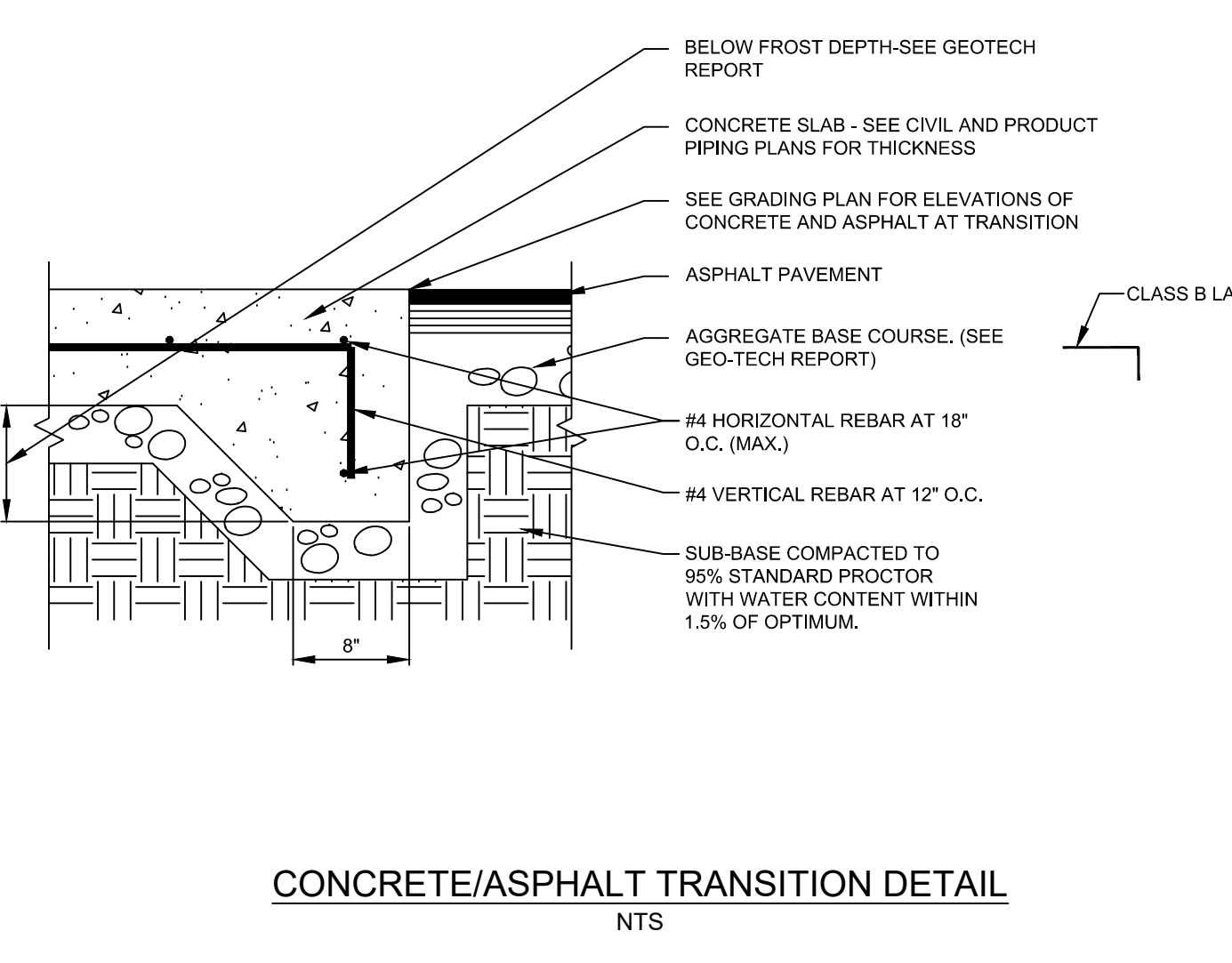
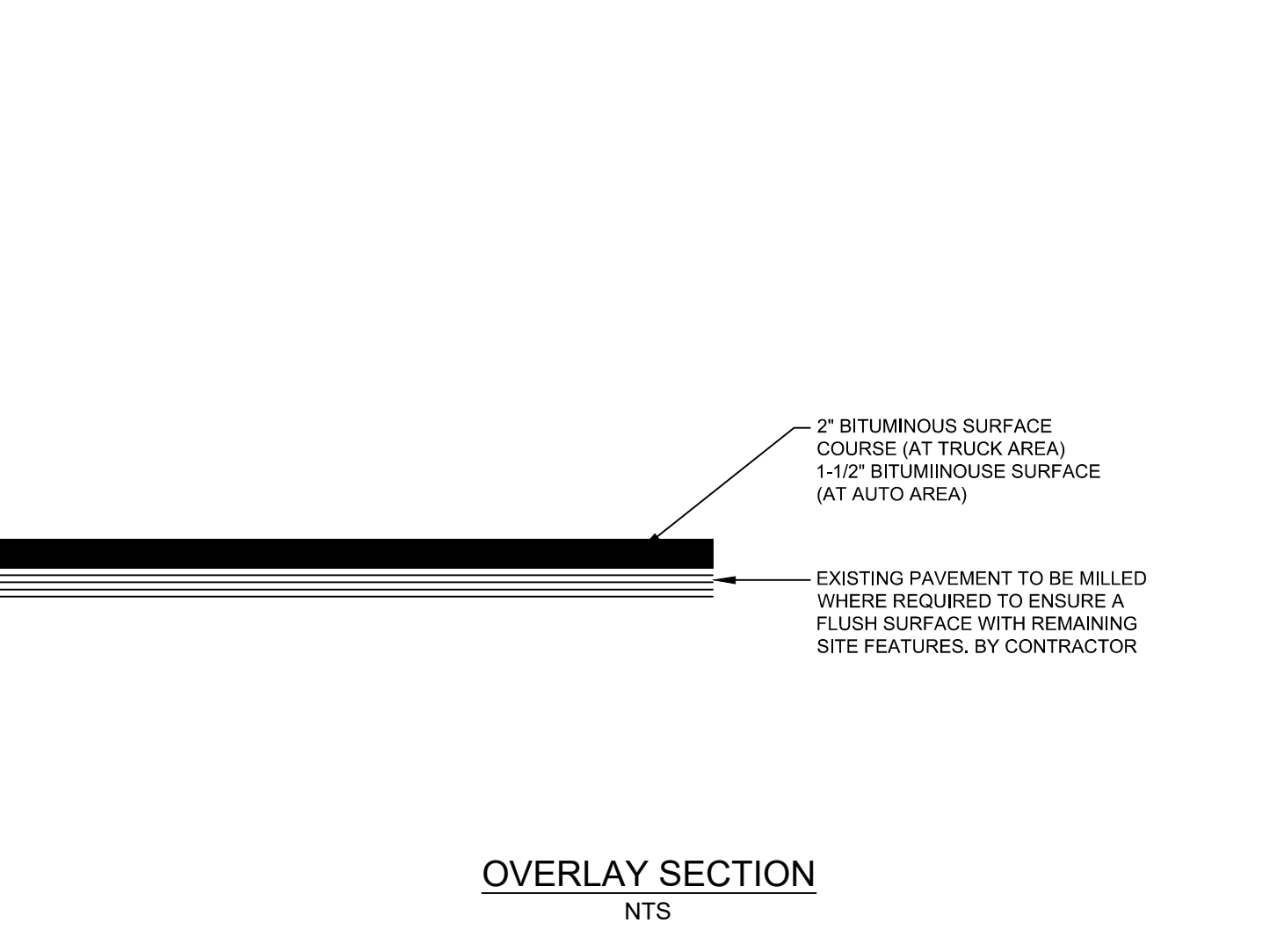
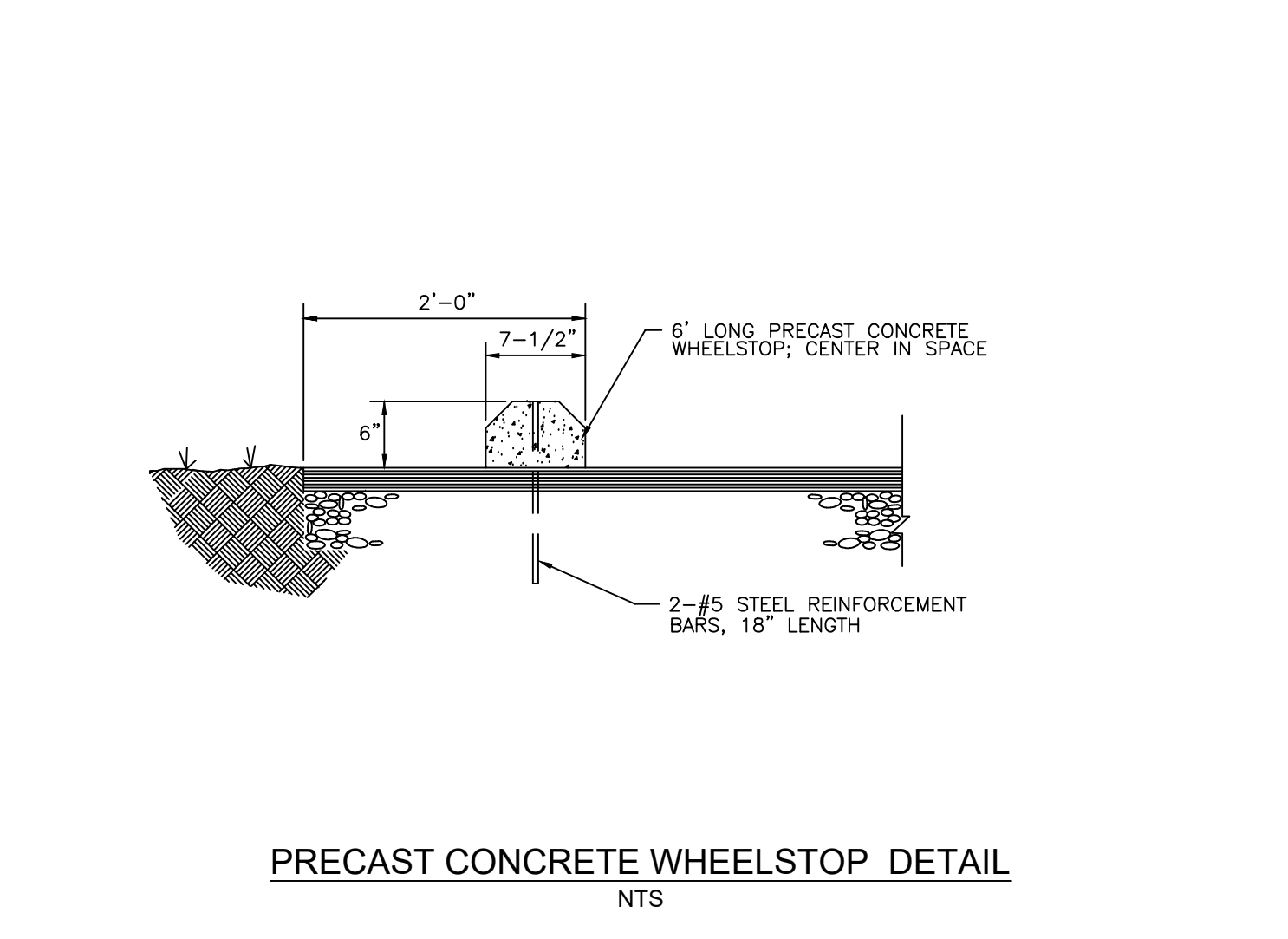
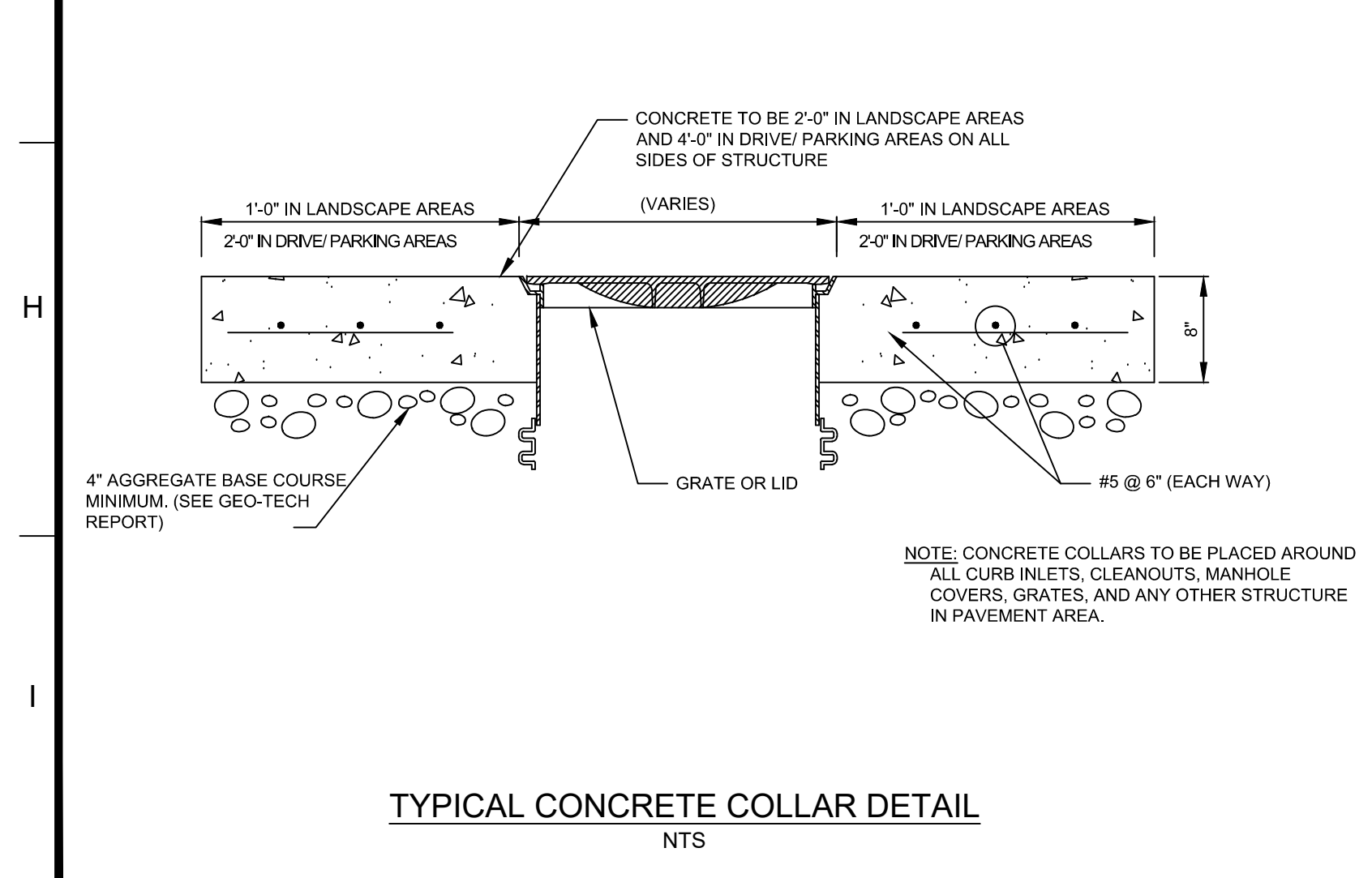
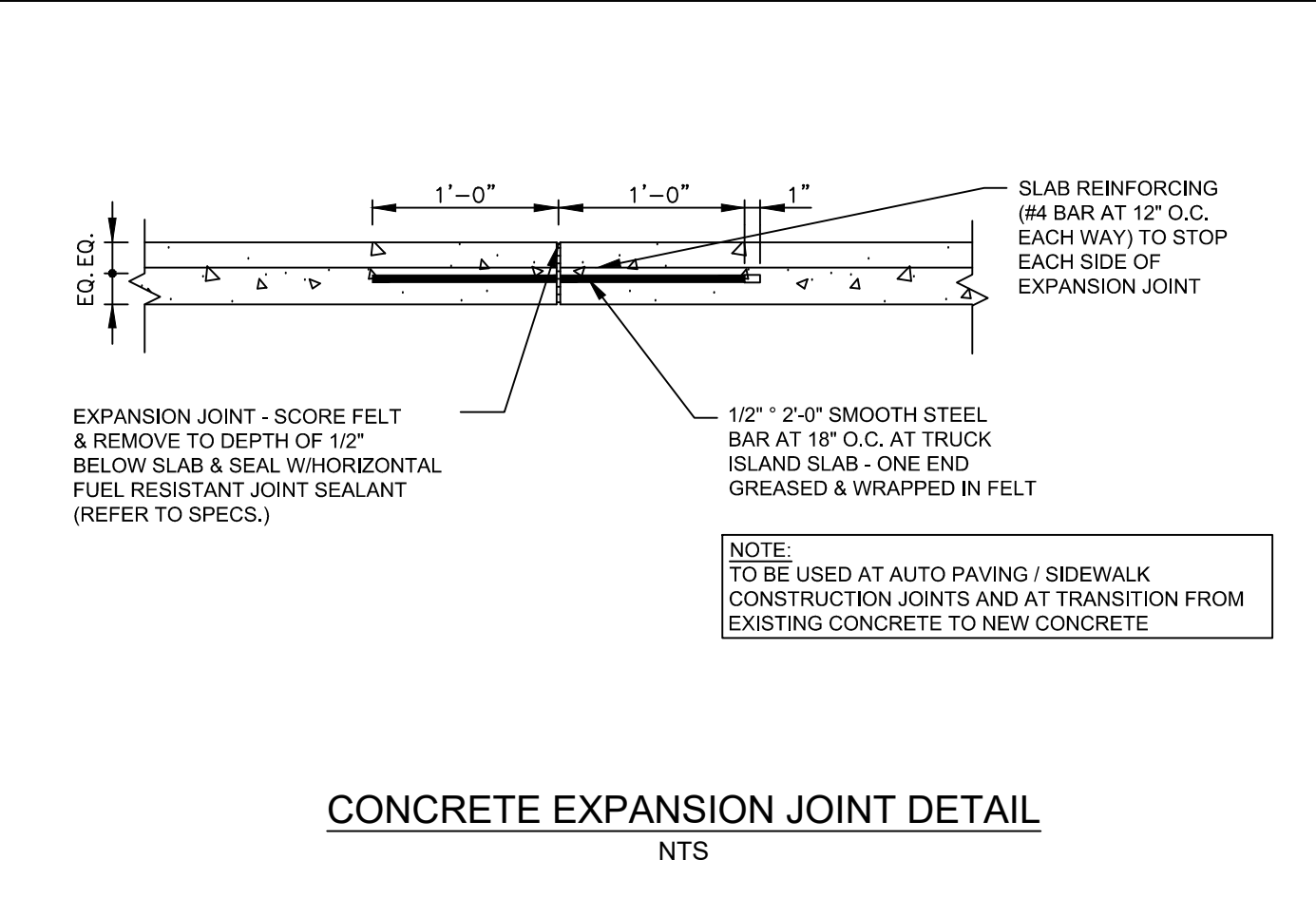
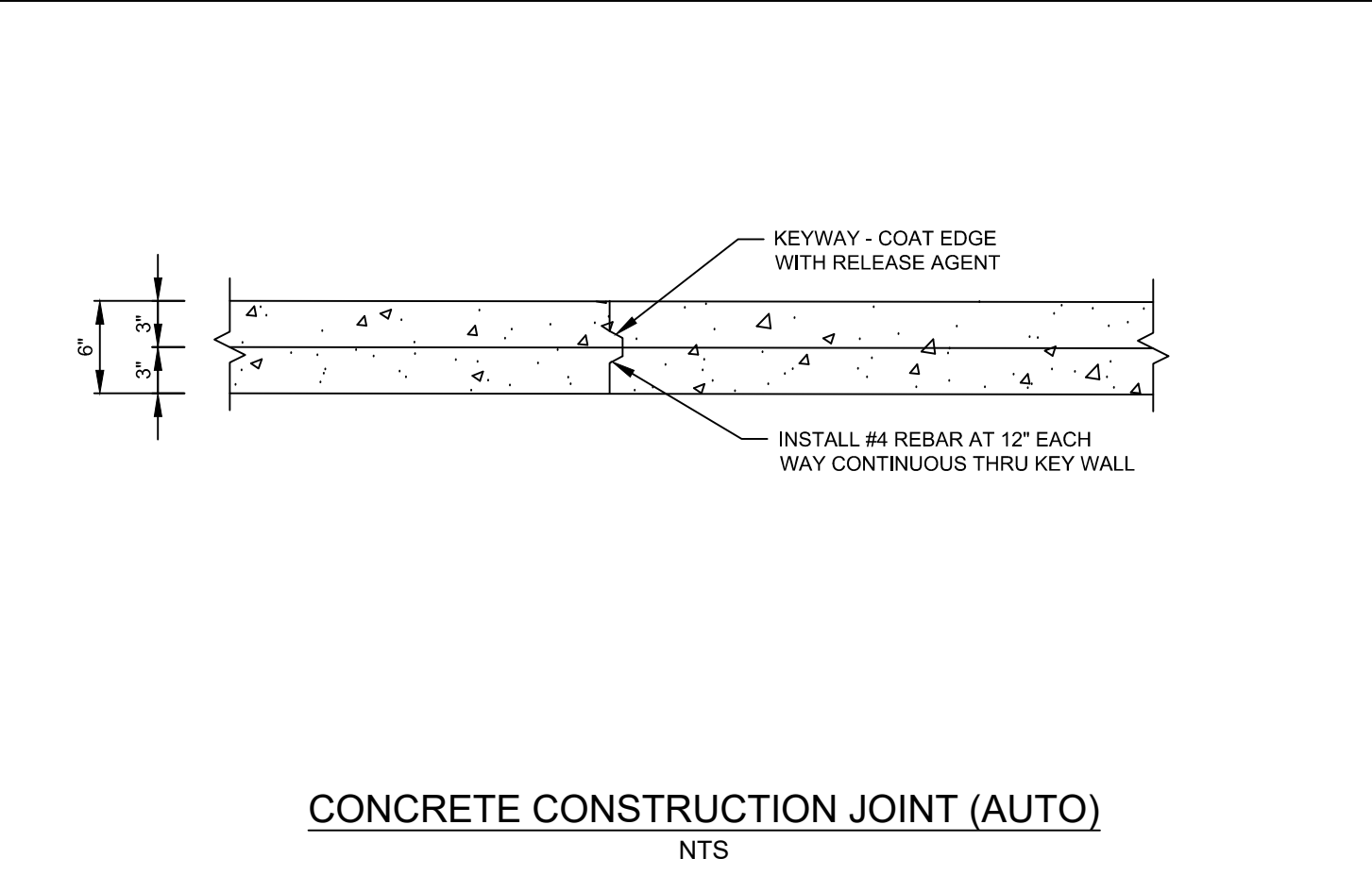
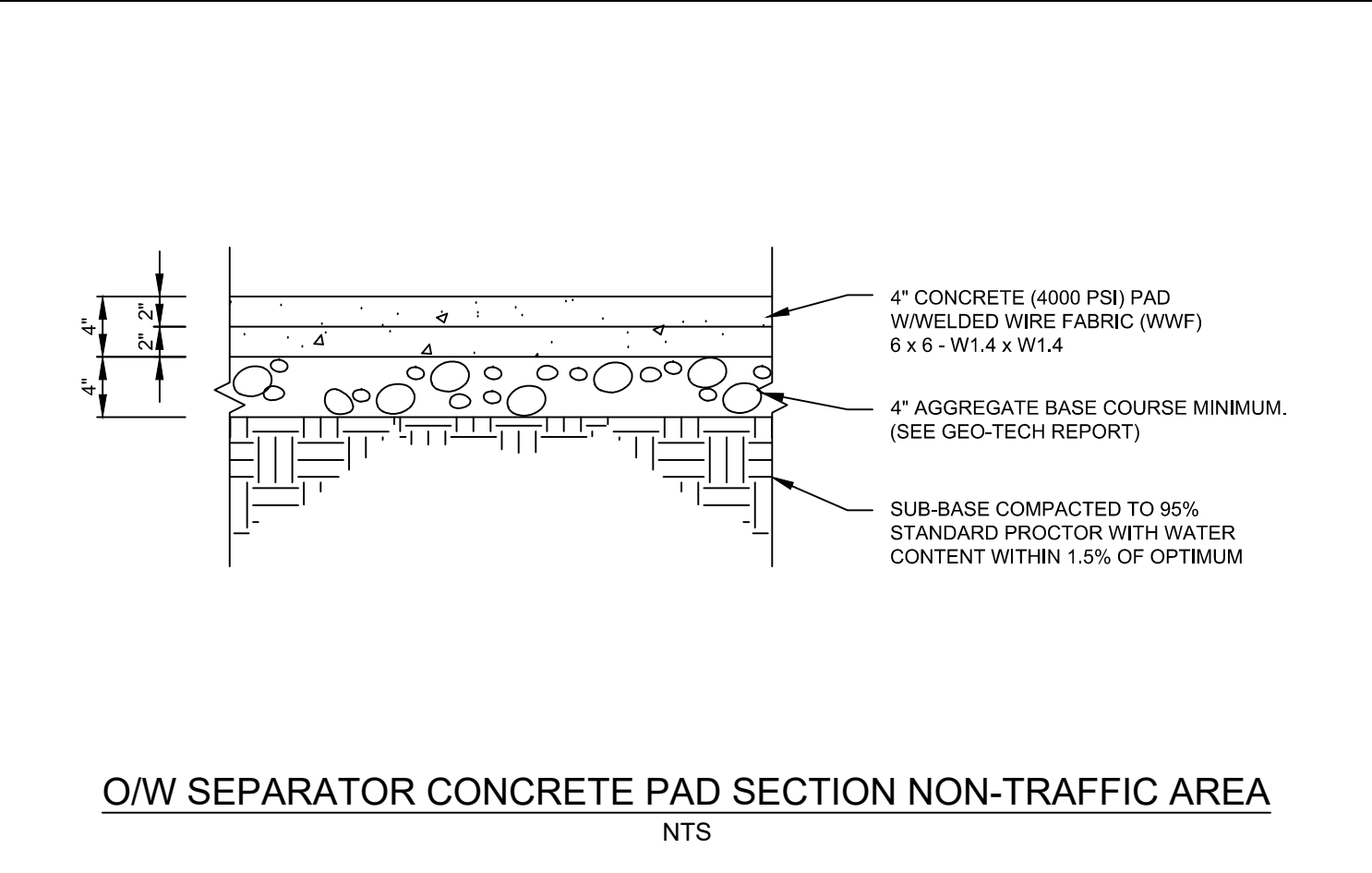
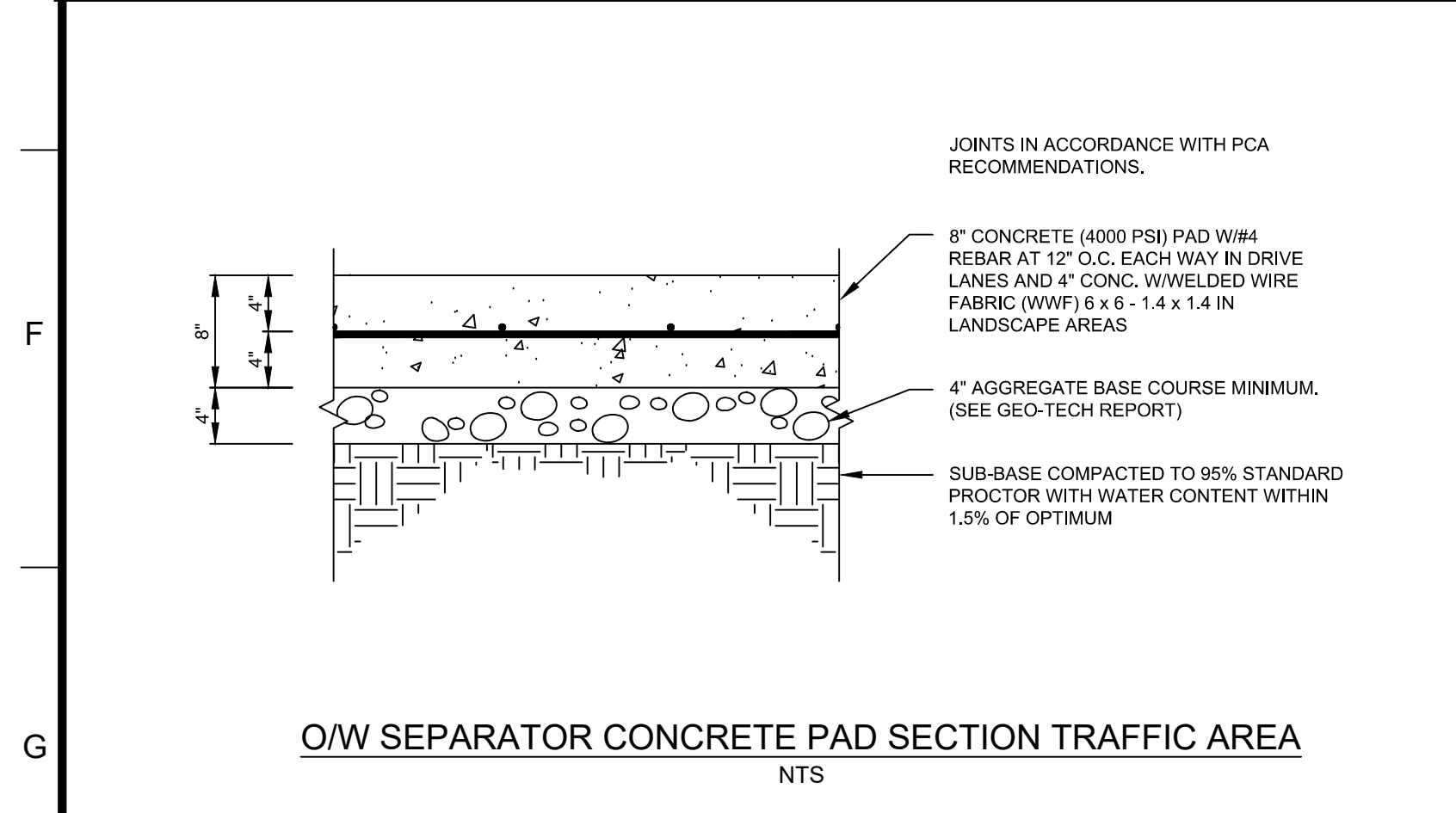
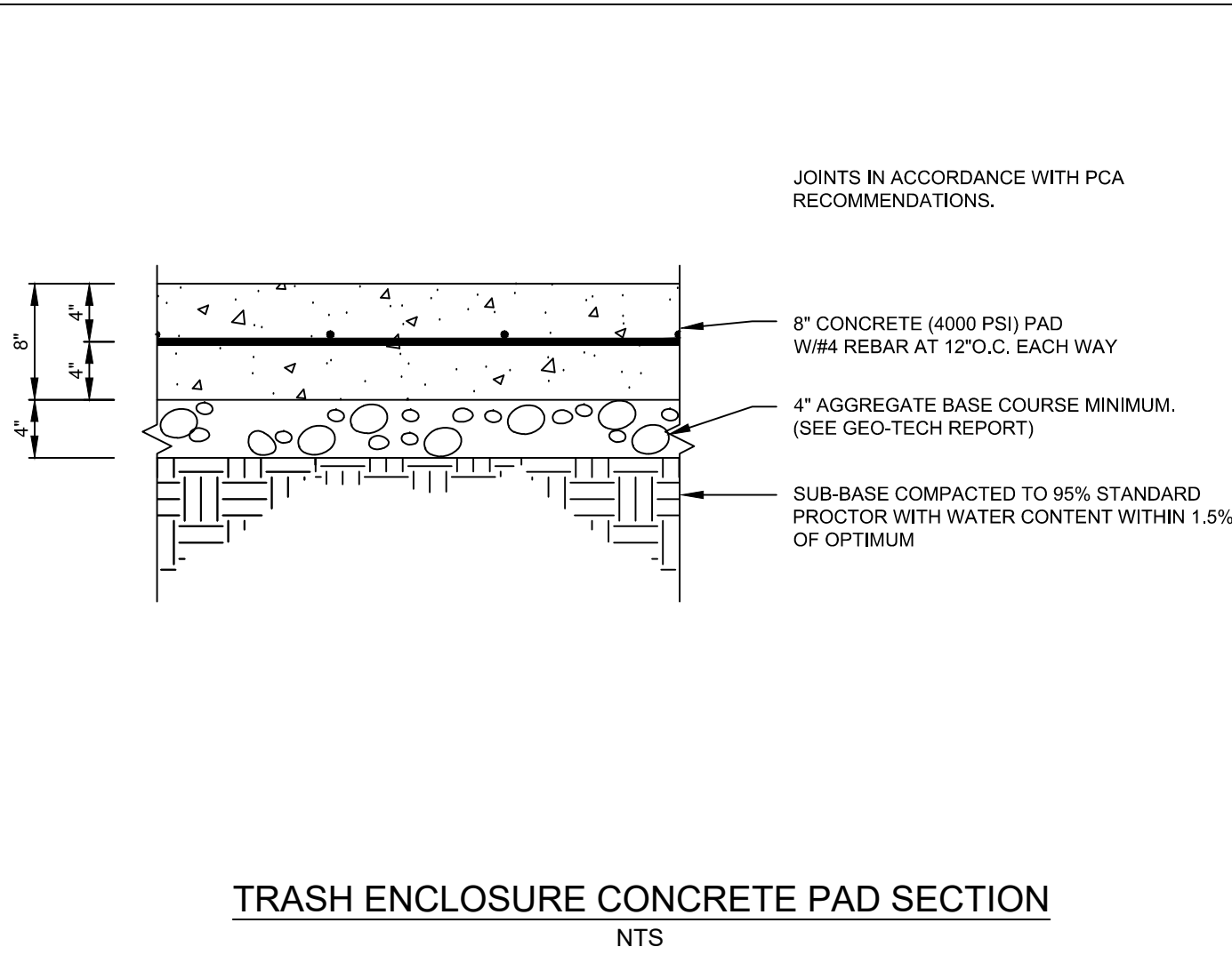
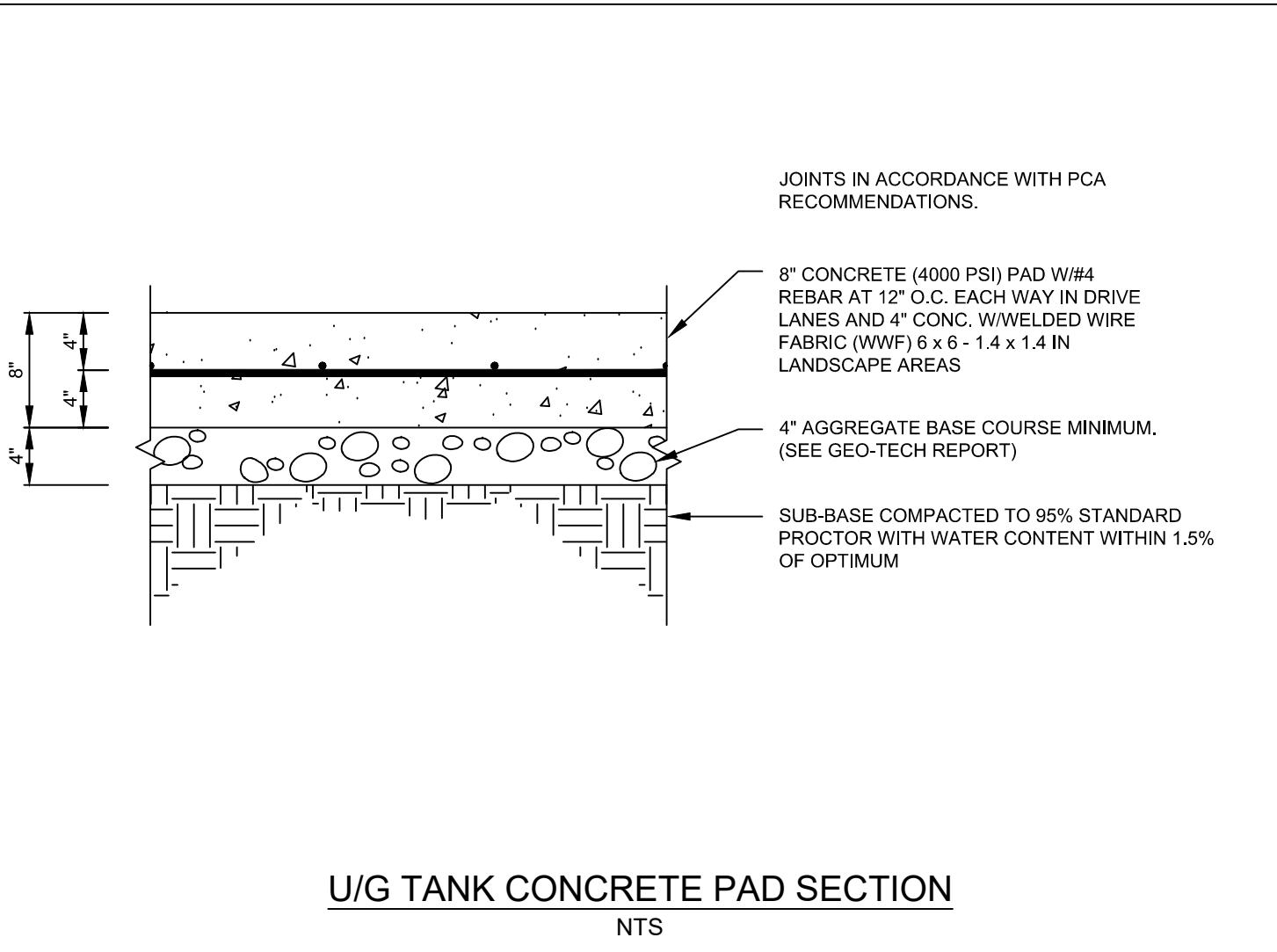
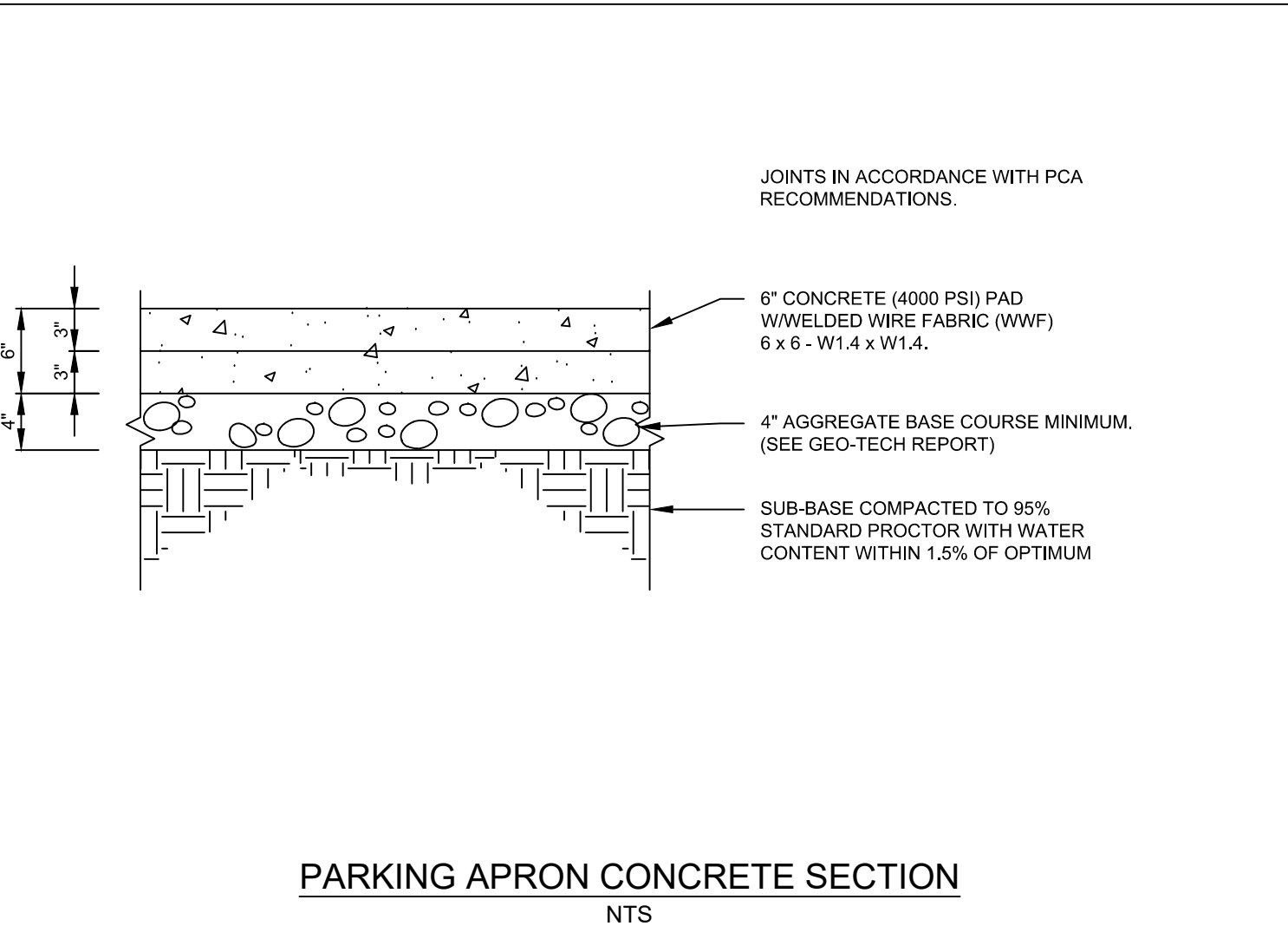
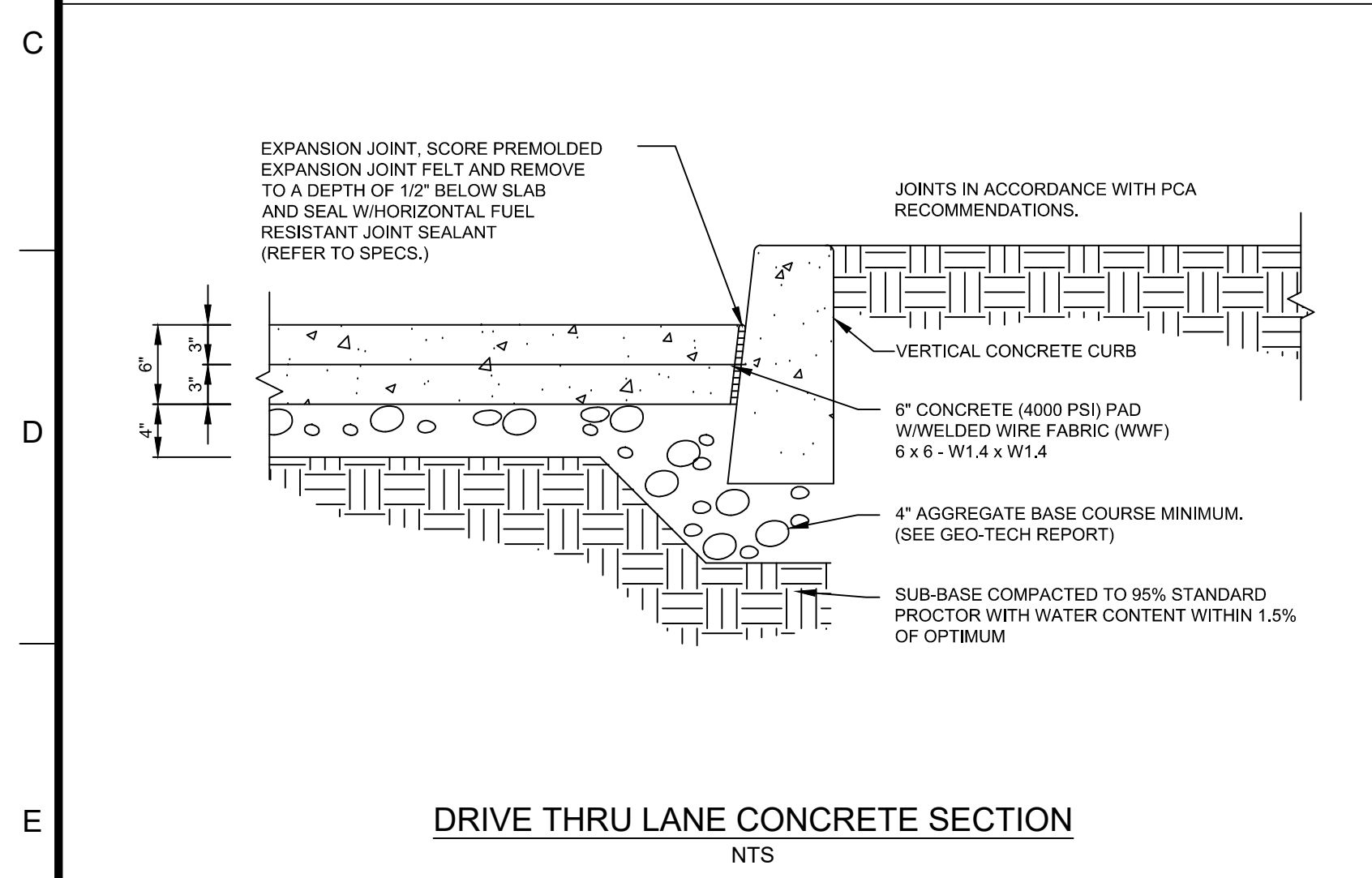
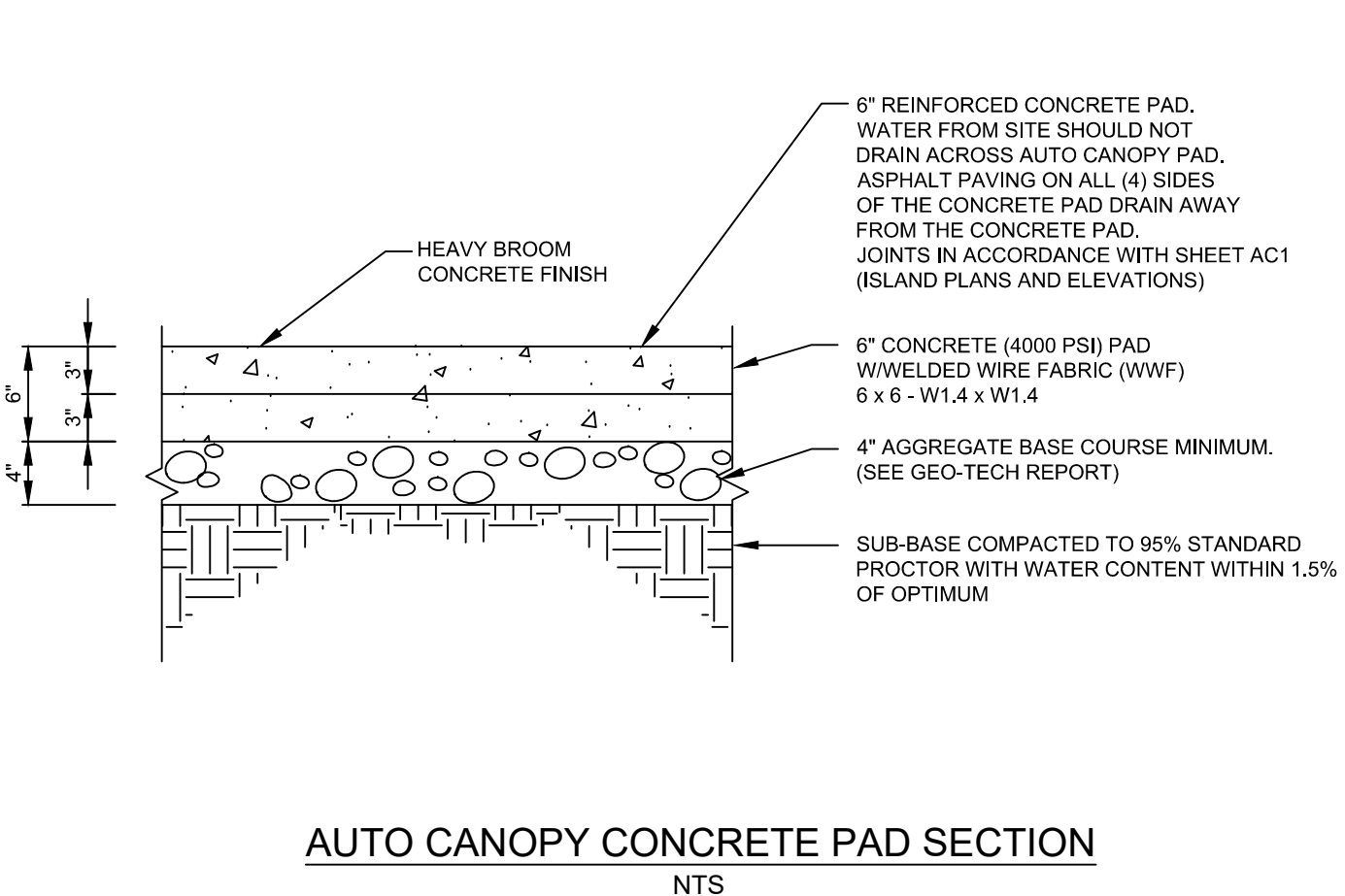
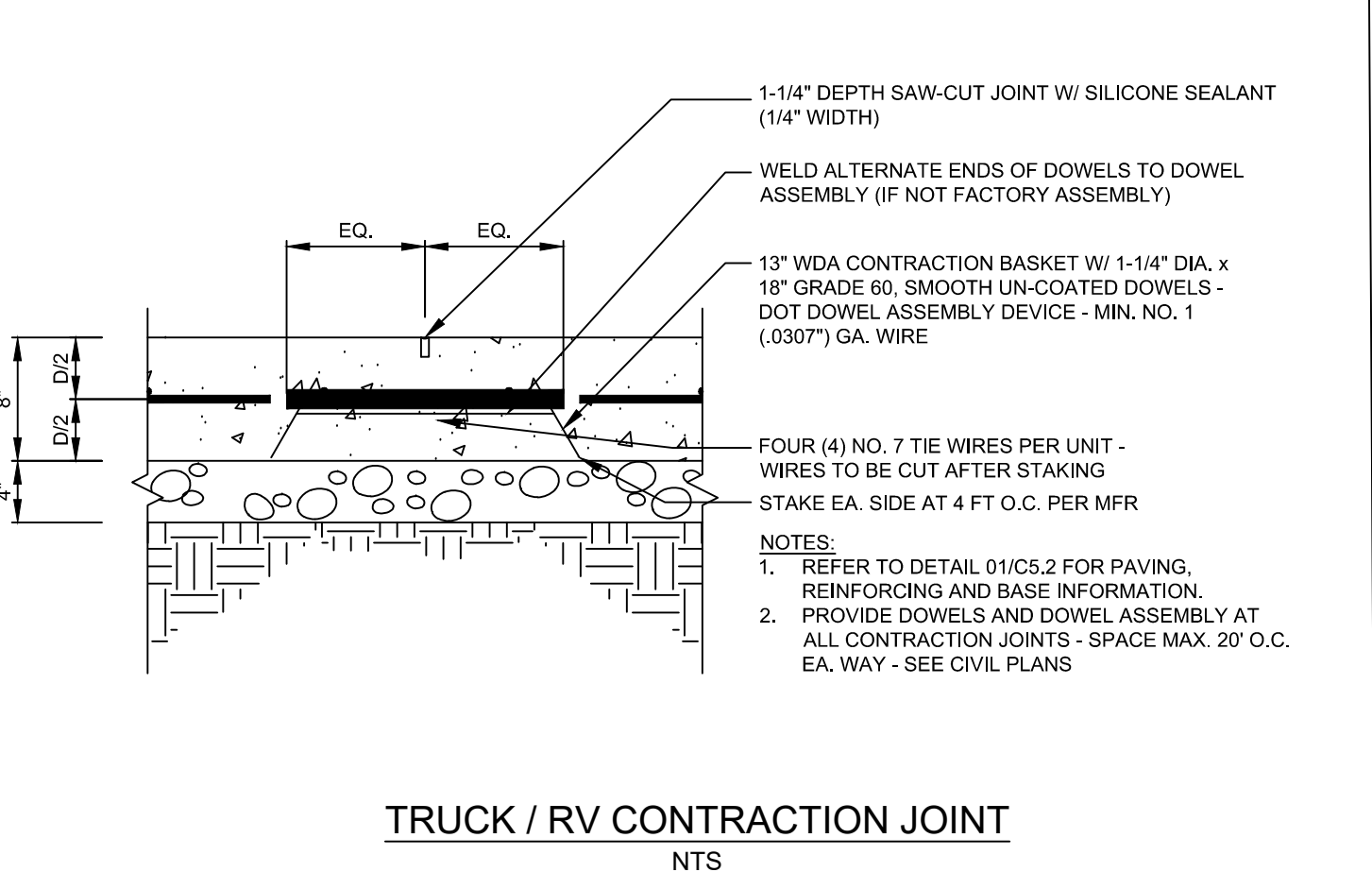
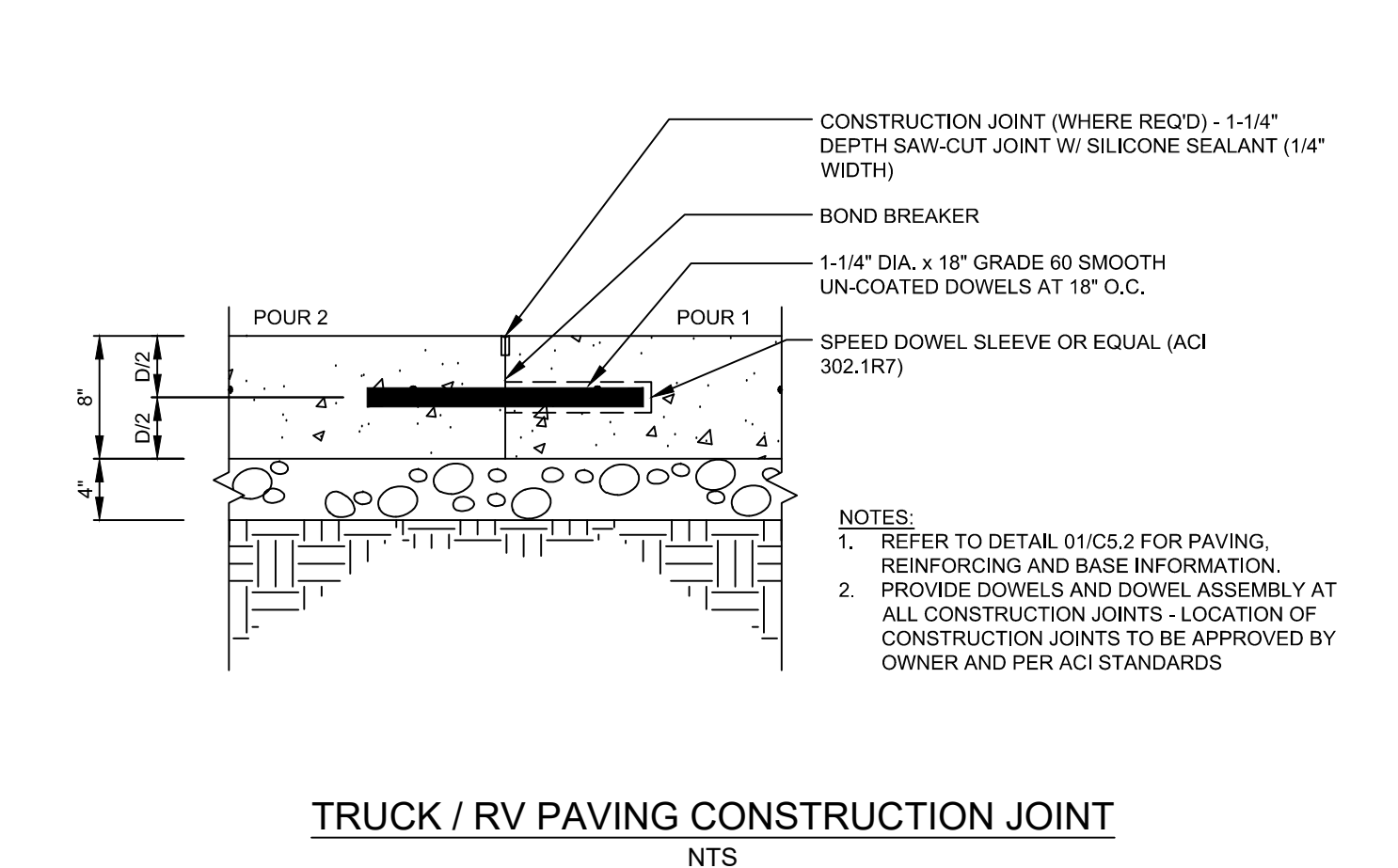
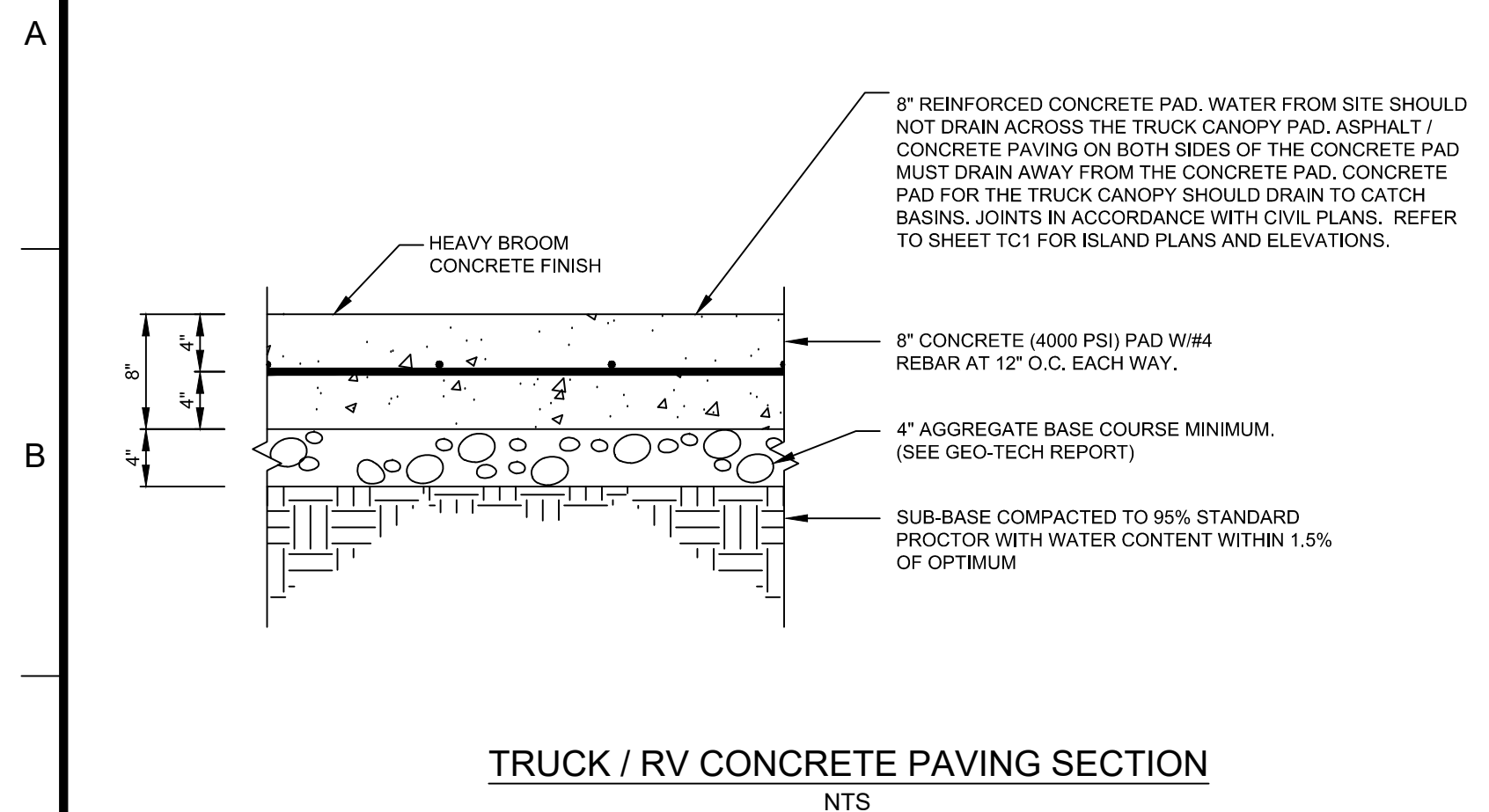
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE
CIVIL ENGINEER
REGISTERED PROFESSIONAL ENGINEER
LICENSE # 40163
1/9/2020

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

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Pilot TRAVEL CENTERS

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KNOXVILLE, TN
37909

811
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THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THE FIELD. CORESTATES, INC. DOES NOT WARRANT THE LOCATION OR DEPTH OF ANY UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES IN THE FIELD BEFORE ANY CONSTRUCTION TO BEGIN. ANY DAMAGE TO UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

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DOCUMENT
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APPROVAL

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400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

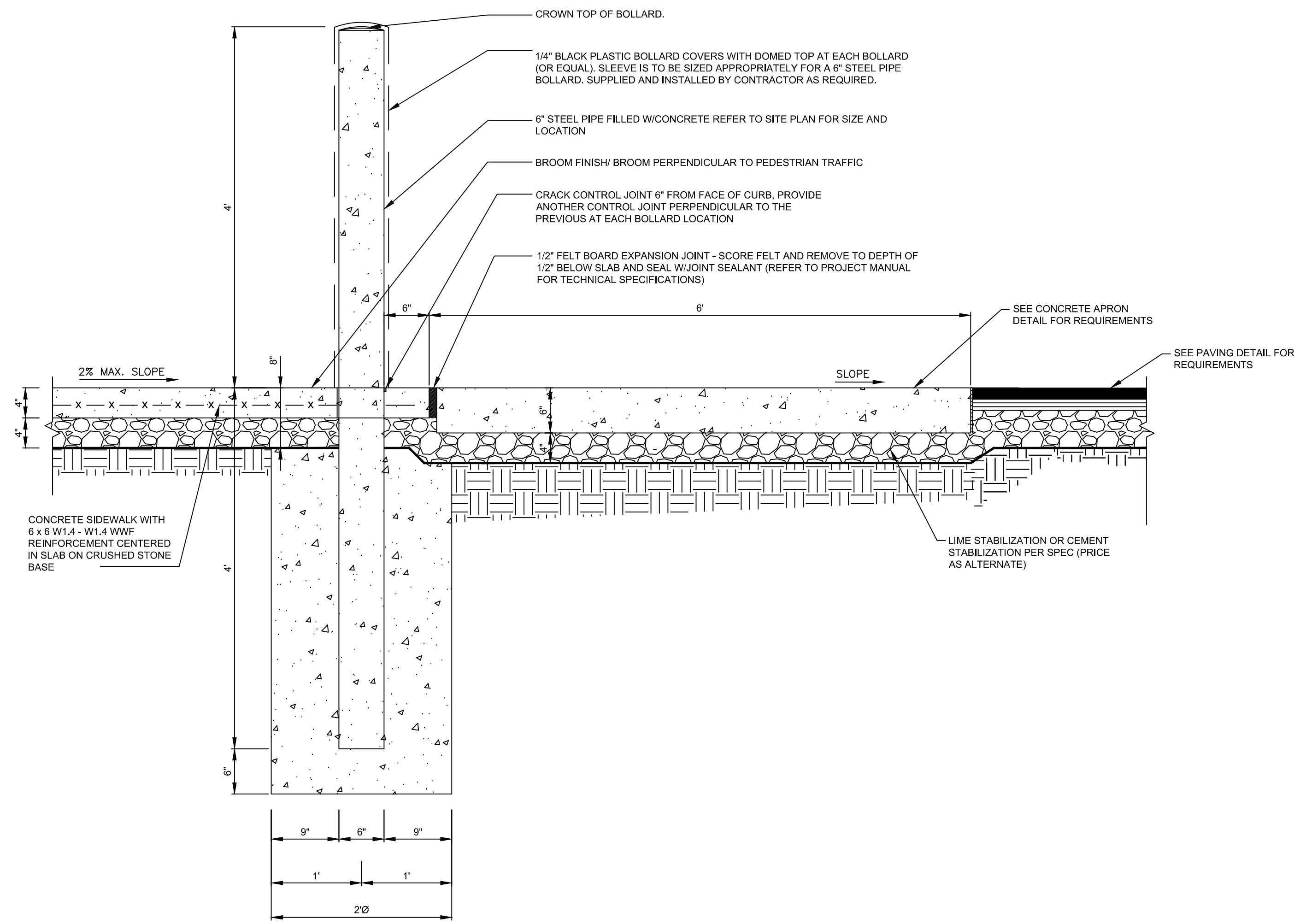
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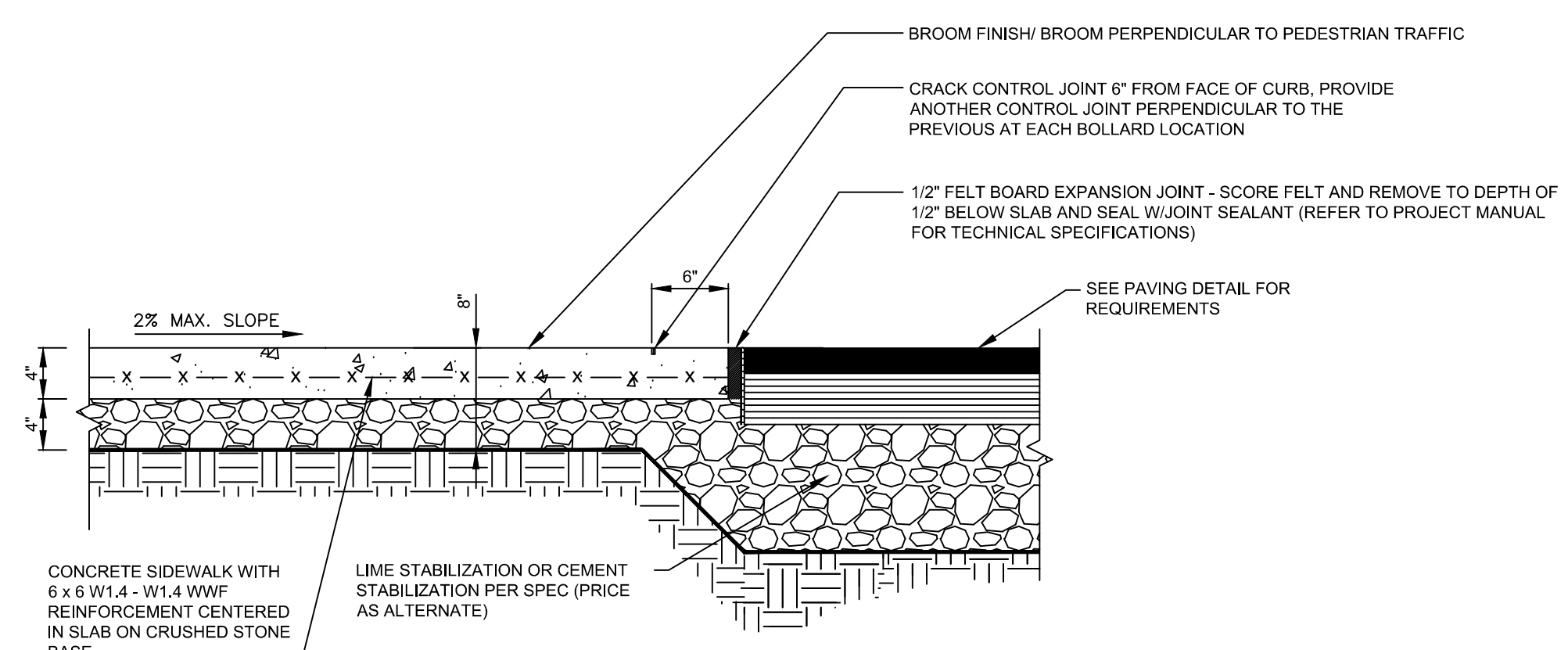
SHEET TITLE
SITE PAVING
CONSTRUCTION
DETAILS

JOB #:	PIL 28950
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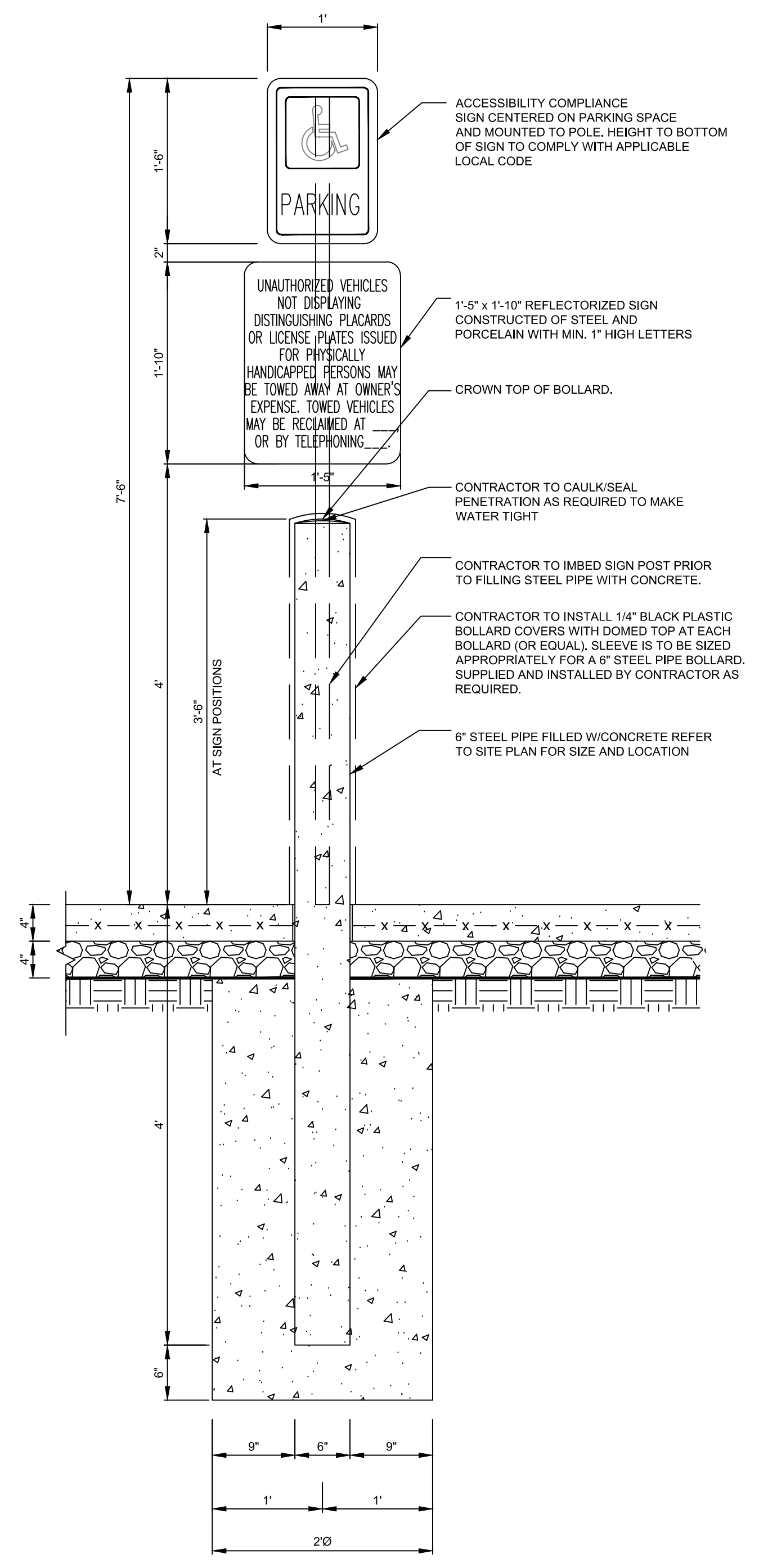
SHEET NO.
C5.2



AUTO FRONT PARKING/SIDEWALK SECTION NON-ADA PARKING
NTS



TRUCK SIDEWALK SECTION
NTS



ADA PARKING SIGN SECTION
NTS

CORE STATES GROUP
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DOCUMENT
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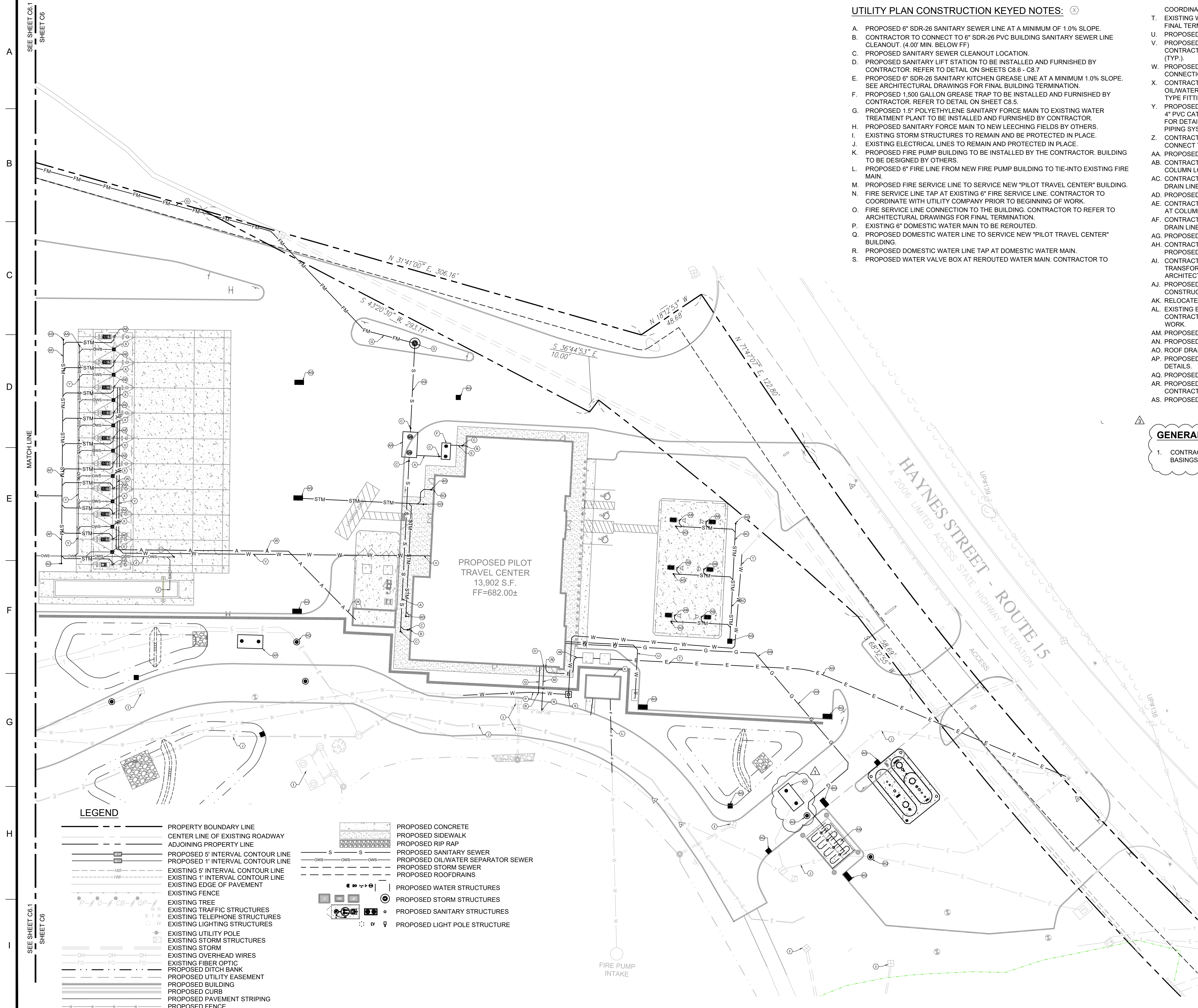
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SHEET NO.
C5.3



UTILITY PLAN CONSTRUCTION KEYED NOTES: (X)

- A. PROPOSED 6" SDR-26 SANITARY SEWER LINE AT A MINIMUM OF 1.0% SLOPE.
- B. CONTRACTOR TO CONNECT TO 6" SDR-26 PVC BUILDING SANITARY SEWER LINE CLEANOUT. (4.00' MIN. BELOW FF)
- C. PROPOSED SANITARY SEWER CLEANOUT LOCATION.
- D. PROPOSED SANITARY LIFT STATION TO BE INSTALLED AND FURNISHED BY CONTRACTOR. REFER TO DETAIL ON SHEETS C8.6 - C8.7
- E. PROPOSED 6" SDR-26 SANITARY KITCHEN GREASE LINE AT A MINIMUM 1.0% SLOPE. SEE ARCHITECTURAL DRAWINGS FOR FINAL BUILDING TERMINATION.
- F. PROPOSED 1,500 GALLON GREASE TRAP TO BE INSTALLED AND FURNISHED BY CONTRACTOR. REFER TO DETAIL ON SHEET C8.5.
- G. PROPOSED 1.5" POLYETHYLENE SANITARY FORCE MAIN TO EXISTING WATER TREATMENT PLANT TO BE INSTALLED AND FURNISHED BY CONTRACTOR.
- H. PROPOSED SANITARY FORCE MAIN TO NEW LEECHING FIELDS 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

- 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.).
- X. CONTRACTOR TO PROVIDE 4" SCHEDULE 40 PVC FROM THE TRUCK CANOPY PAD OIL/WATER INTERCEPTOR CATCH BASINS, TYPICAL AT EACH DRAIN. NO "FERRO" TYPE FITTINGS ALLOWED AT ANY PART OF THE OWS PIPING SYSTEM.
- 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 "FERRO" 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.
- AD. PROPOSED ROOF DRAIN CLEANOUT.
- AE. CONTRACTOR TO INSTALL PVC PIPE FROM TRUCK CANOPY ROOF DRAINS. TYPICAL AT COLUMN LOCATIONS. SEE ROOF DRAIN UTILITY PLAN FOR DETAIL.
- 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.
- AR. PROPOSED 10,000 GALLON SEPTIC TANK TO BE INSTALLED AND FURNISHED BY CONTRACTOR. REFER TO DETAIL ON SHEET C8.5.
- AS. PROPOSED 8" SDR-26 SANITARY SEWER LINE AT A MINIMUM OF 0.5% SLOPE.

GENERAL NOTES:

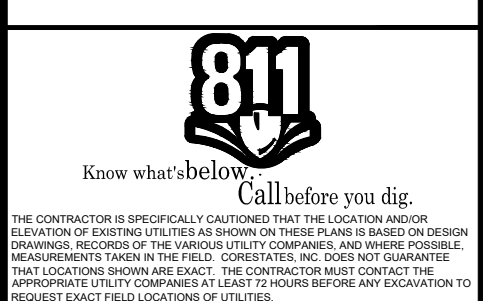
- CONTRACTOR TO VERIFY IF CONFLICT EXISTS WITH PROPOSED BASINS AND WATER LINES DURING CONSTRUCTION.

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

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



REVISIONS

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DOCUMENT
 SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

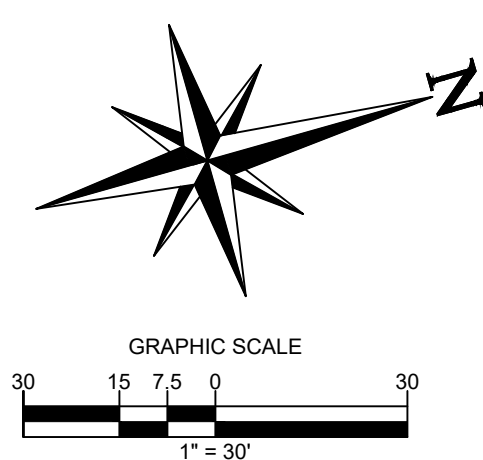
ENGINEER SEAL

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

SHEET TITLE
 OVERALL UTILITY PLAN

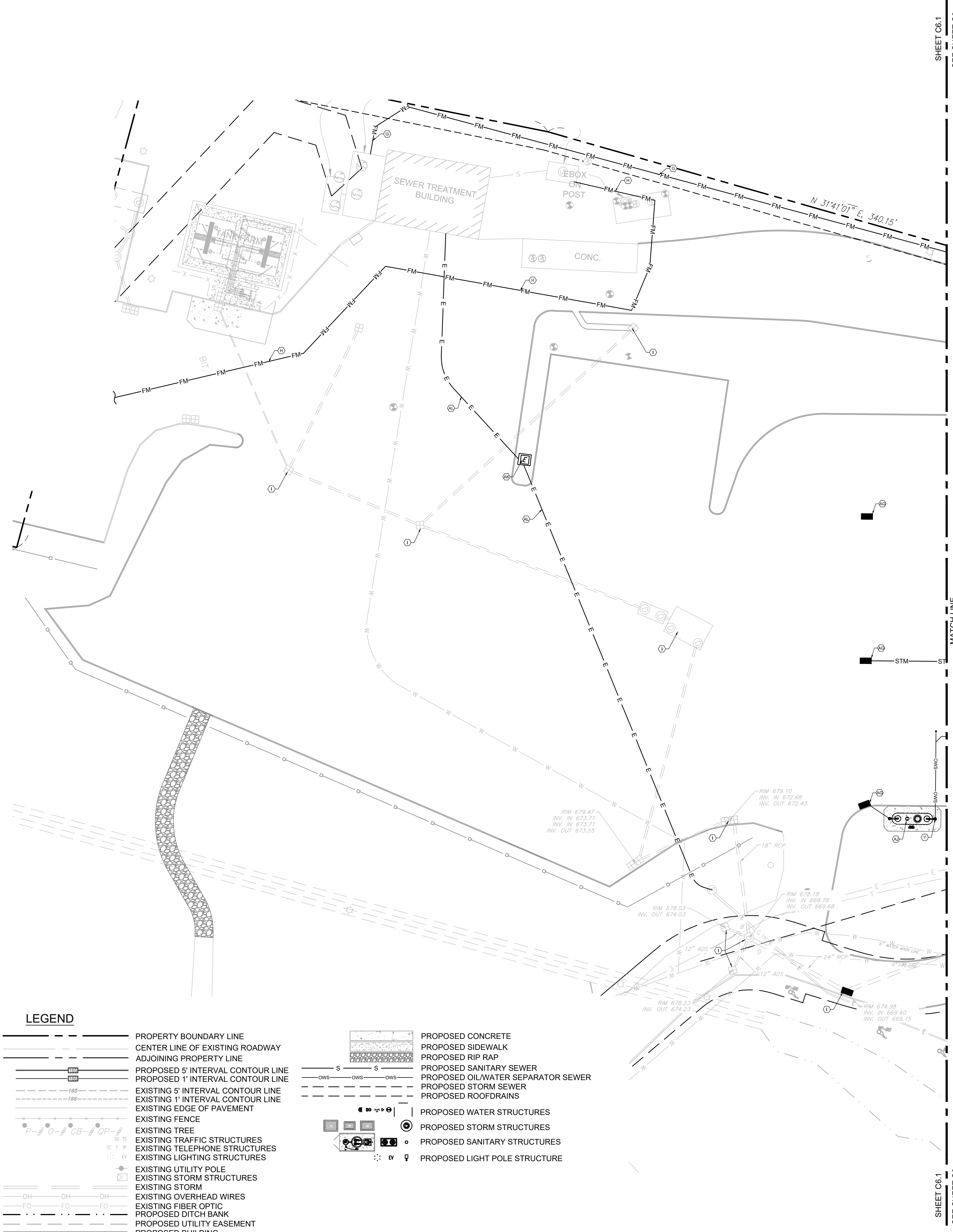
JOB #: P1L28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C6.0



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.



UTILITY PLAN CONSTRUCTION KEYED NOTES: (X)

- A. PROPOSED 6" SDR-26 SANITARY SEWER LINE AT A MINIMUM OF 1.0% SLOPE.
- B. CONTRACTOR TO CONNECT TO 6" SDR-26 PVC BUILDING SANITARY SEWER LINE CLEANOUT. (4.00' MIN. BELOW FF)
- C. PROPOSED SANITARY SEWER CLEANOUT LOCATION.
- D. PROPOSED SANITARY LIFT STATION TO BE INSTALLED AND FURNISHED BY CONTRACTOR. REFER TO DETAIL ON SHEETS C8.6 - C8.7
- E. PROPOSED 6" SDR-26 SANITARY KITCHEN GREASE LINE AT A MINIMUM 1.0% SLOPE. SEE ARCHITECTURAL DRAWINGS FOR FINAL BUILDING TERMINATION.
- F. PROPOSED 1,500 GALLON GREASE TRAP TO BE INSTALLED AND FURNISHED BY CONTRACTOR. REFER TO DETAIL ON SHEET C8.5.
- G. PROPOSED 1.5" POLYETHYLENE SANITARY FORCE MAIN TO EXISTING WATER TREATMENT PLANT TO BE INSTALLED AND FURNISHED BY CONTRACTOR.
- H. PROPOSED SANITARY FORCE MAIN TO NEW LEECHING FIELDS BY OTHERS.
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- 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.
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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.
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- 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.
- AD. PROPOSED ROOF DRAIN CLEANOUT.
- AE. CONTRACTOR TO INSTALL PVC PIPE FROM TRUCK CANOPY ROOF DRAINS. TYPICAL AT COLUMN LOCATIONS. SEE ROOF DRAIN UTILITY PLAN FOR DETAIL.
- 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.
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GENERAL NOTES:

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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 DRAWINGS IS BASED ON RECORD DRAWINGS AND FIELD SURVEY. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND COORDINATING WITH ALL UTILITIES PRIOR TO CONSTRUCTION.

REVISIONS

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DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

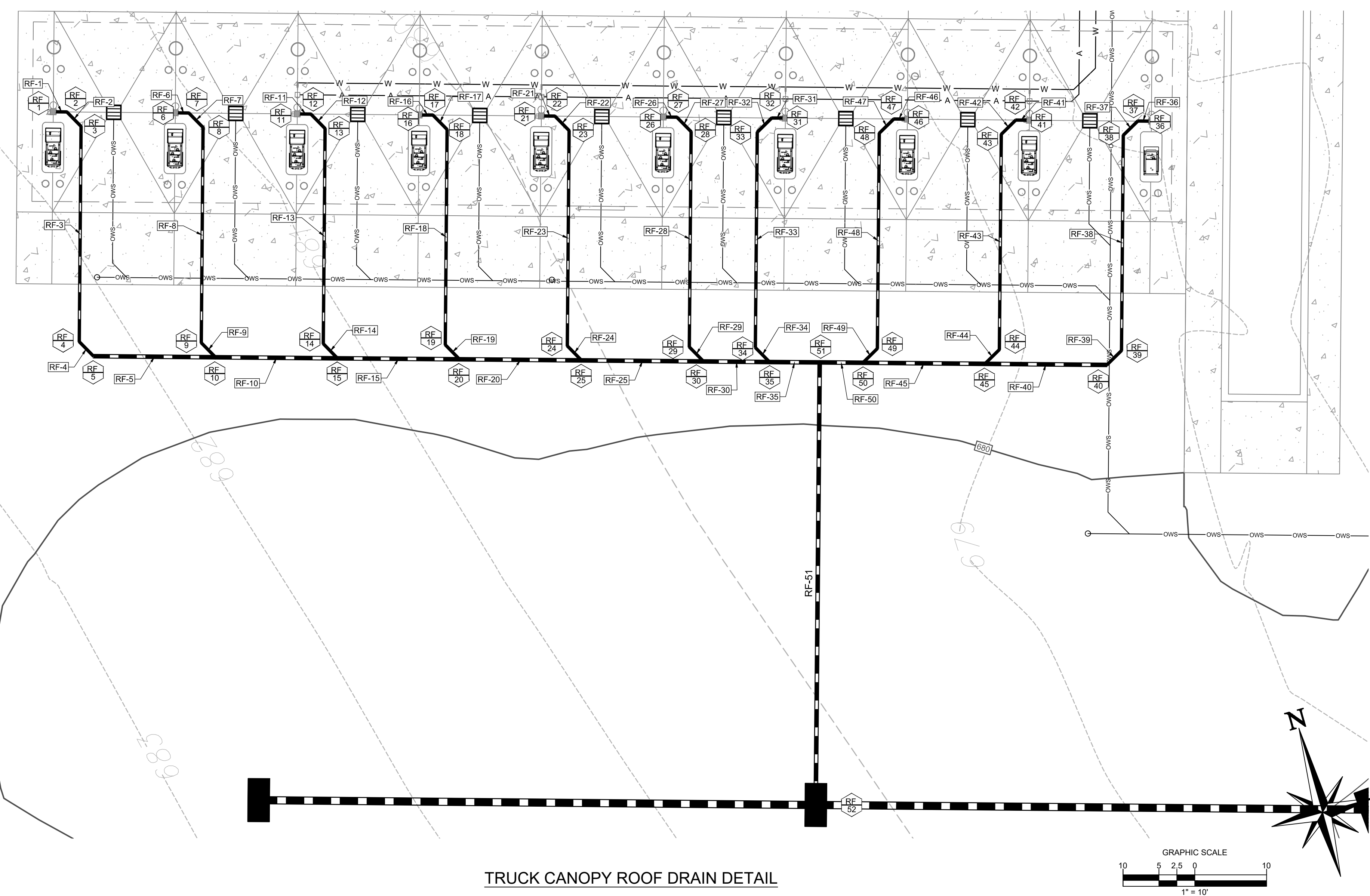
ALAN D. ROSCOE, P.E.
 LICENSE # 40163

ALAN D. ROSCOE, P.E.
 1/9/2020

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	677.27	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-5	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-10	676.57	RF-15	676.57	17.00'	6" PVC	1.00%
16	ROOF DRAIN	680.11	RF-14	676.57	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-15	676.40	RF-20	676.40	17.00'	6" PVC	1.00%
21	ROOF DRAIN	680.11	RF-19	676.40	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-20	676.23	RF-25	676.23	17.00'	6" PVC	1.00%
26	ROOF DRAIN	680.11	RF-24	676.23	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-25	676.06	RF-30	676.06	9.20'	6" PVC	1.00%
31	ROOF DRAIN	680.11	RF-29	676.06	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-30	675.97	RF-35	675.97	6.97'	6" PVC	1.00%
36	ROOF DRAIN	680.11	RF-34	675.97	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-40	676.13	RF-45	676.13	17.00'	6" PVC	1.00%
46	ROOF DRAIN	680.11	RF-44	676.13	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-45	675.96	RF-50	675.96	6.03'	6" PVC	1.00%
51	TEE	680.06	RF-35	675.90	RF-51	675.90	61.66'	6" PVC	1.00%
52	PROPOSED CATCH BASIN	679.45	RF-50	675.90	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 STORM STRUCTURES
- PROPOSED SANITARY STRUCTURES
- PROPOSED LIGHT POLE STRUCTURE

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DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

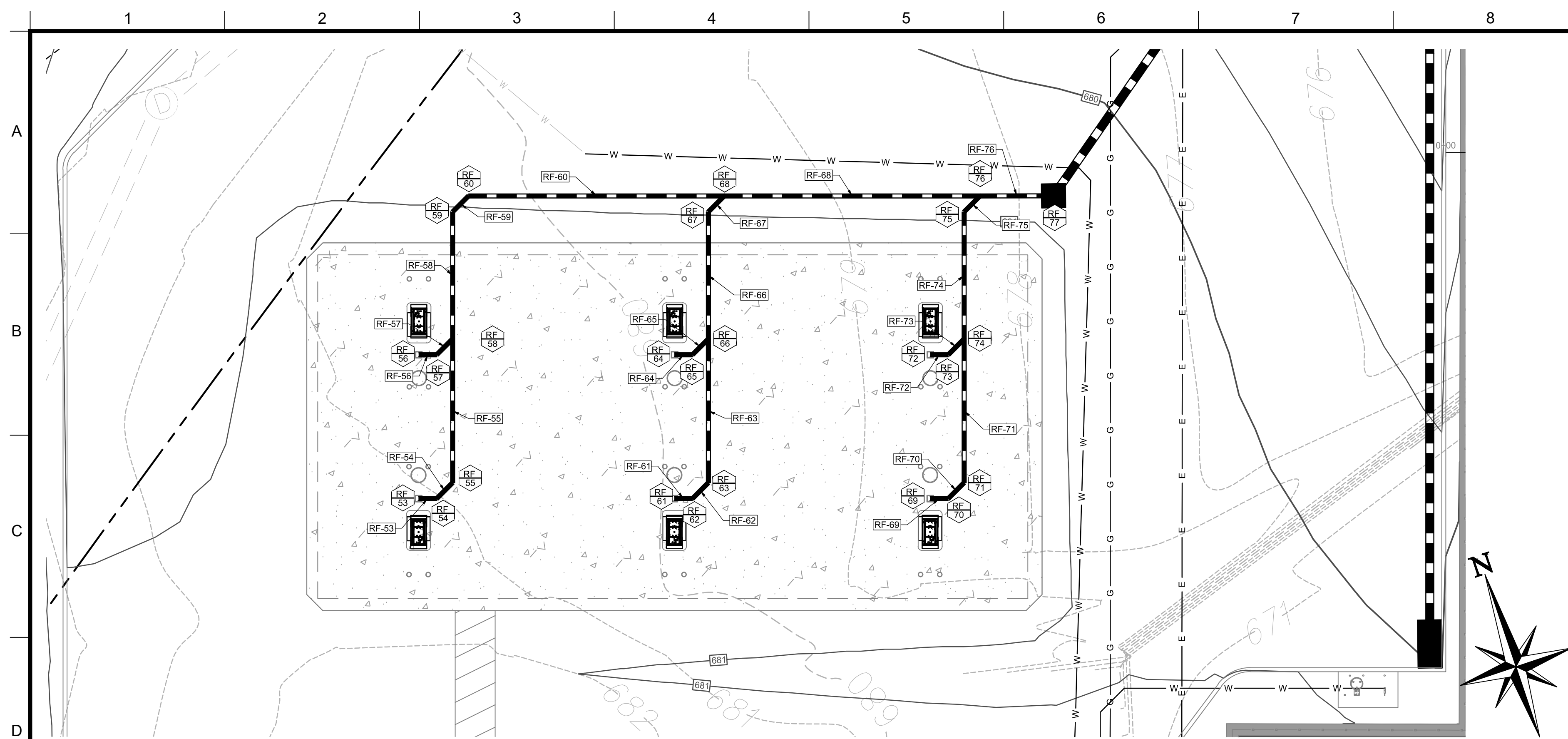
ENGINEER SEAL

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

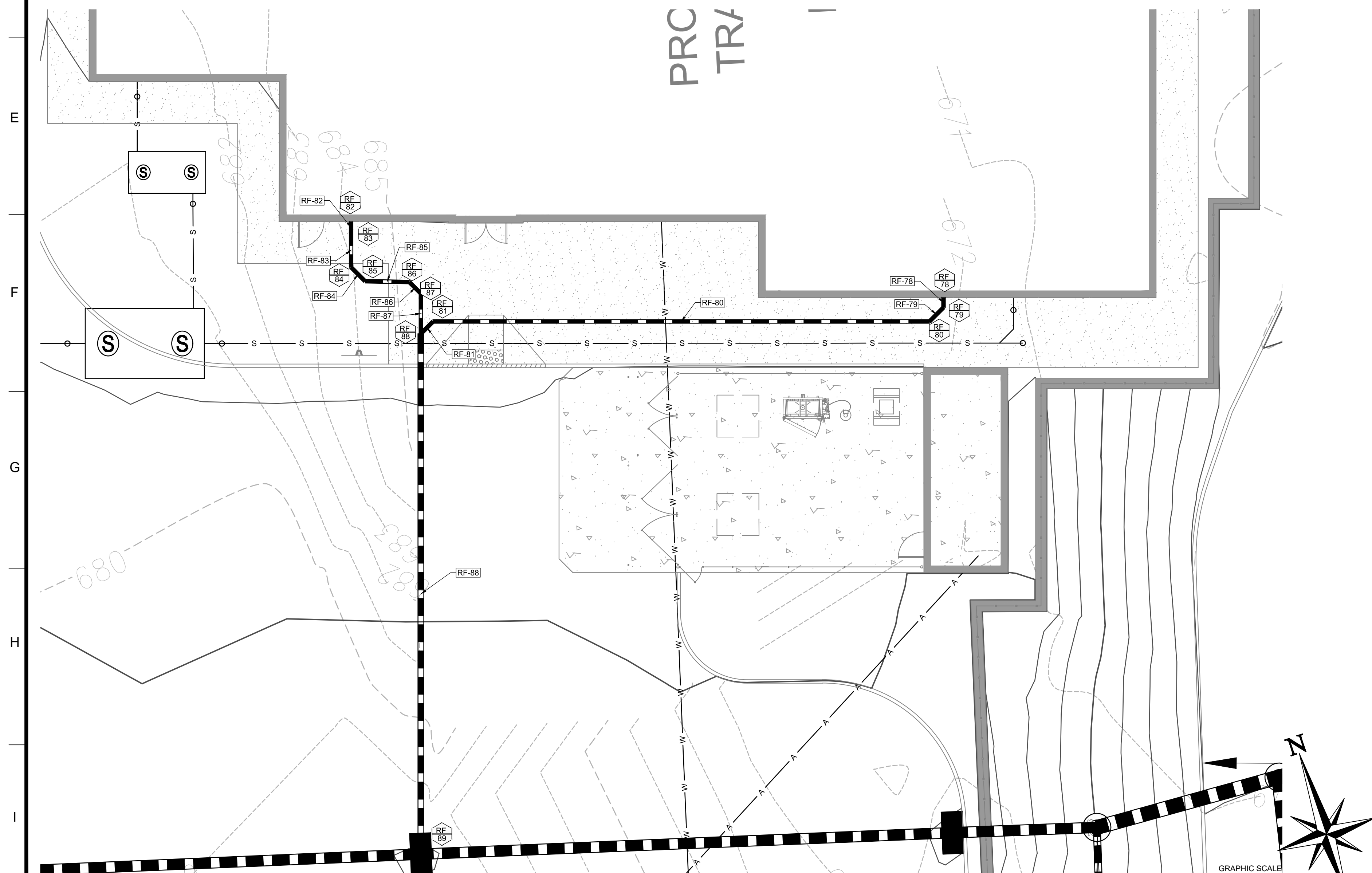
SHEET TITLE
 ROOF DRAIN
 UTILITY
 PLAN

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

SHEET NO.
C6.2



AUTO CANOPY ROOF DRAIN DETAIL



BUILDING 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
53	ROOF DRAIN	681.15			RF-53	678.50'	2.25'	6" PVC	1.00%
54	45° BEND	681.15	RF-53	678.48'	RF-54	678.48'	2.83'	6" PVC	1.00%
55	CLEANOUT	681.15	RF-54	678.45'	RF-55	678.45'	17.98'	6" PVC	1.00%
56	ROOF DRAIN	681.15			RF-56	678.50'	2.25'	6" PVC	1.00%
57	45° BEND	681.15	RF-56	678.48'	RF-57	678.48'	2.80'	6" PVC	7.42%
58	WYE BEND	681.15	RF-55 RF-57	678.27' 678.27'	RF-58	678.27'	15.88'	6" PVC	1.00%
59	45° BEND	681.02	RF-58	678.11'	RF-59	678.11'	2.83'	6" PVC	1.00%
60	CLEANOUT	680.95	RF-59	678.08'	RF-60	678.08'	32.00'	6" PVC	1.43%
61	ROOF DRAIN	681.15			RF-61	678.50'	2.25'	6" PVC	1.00%
62	45° BEND	681.15	RF-61	678.48'	RF-62	678.48'	2.83'	6" PVC	1.00%
63	CLEANOUT	681.15	RF-62	678.45'	RF-63	678.45'	17.98'	6" PVC	1.00%
64	ROOF DRAIN	681.15	RF-64	678.50'					
65	45° BEND	681.15	RF-65	678.48'	RF-64	678.48'	2.25'	6" PVC	-1.00%
66	WYE BEND	681.15	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	680.98	RF-66	678.11'	RF-67	678.11'	2.83'	6" PVC	17.21%
68	WYE BEND	680.89	RF-60 RF-67	677.62' 677.62'	RF-68	677.62'	32.00'	6" PVC	2.00%
69	ROOF DRAIN	681.15			RF-69	678.50'	2.25'	6" PVC	1.00%
70	45° BEND	681.15	RF-69	678.48'	RF-70	678.48'	2.83'	6" PVC	1.00%
71	CLEANOUT	681.15	RF-70	678.45'	RF-71	678.45'	17.98'	6" PVC	1.00%
72	ROOF DRAIN	681.15			RF-72	678.50'	2.25'	6" PVC	1.00%
73	45° BEND	681.15	RF-72	678.48'	RF-73	678.48'	2.80'	6" PVC	7.42%
74	WYE BEND	681.15	RF-71 RF-73	678.27' 678.27'	RF-74	678.27'	15.88'	6" PVC	1.00%
75	45° BEND	680.94	RF-74	678.11'	RF-75	678.11'	2.83'	6" PVC	39.84%
76	WYE BEND	680.83	RF-68 RF-75	676.98' 676.98'	RF-76	676.98'	9.18'	6" PVC	2.00%
77	PROPOSED INLET	680.77	RF-76	678.80'					
78	BUILDING STUB	681.56			RF-78	677.20'	1.41'	6" PVC	2.50%
79	45° BEND	681.48	RF-78	677.17'	RF-79	677.17'	2.83'	6" PVC	2.50%
80	WYE BEND	681.44	RF-79	677.10'	RF-80	677.10'	70.97'	6" PVC	2.50%
81	45° BEND	681.76	RF-80	675.32'	RF-81	675.32'	2.47'	6" PVC	2.50%
82	BUILDING STUB	682.00			RF-82	675.85'	1.65'	6" PVC	2.50%
83	CLEANOUT	681.97	RF-82	675.81'	RF-83	675.81'	4.86'	6" PVC	2.50%
84	45° BEND	681.90	RF-83	675.69'	RF-84	675.69'	2.83'	6" PVC	2.50%
85	45° BEND	681.86	RF-84	675.62'	RF-85	675.62'	6.33'	6" PVC	2.50%
86	45° BEND	681.85	RF-85	675.46'	RF-86	675.46'	2.35'	6" PVC	2.50%
87	WYE BEND	681.83	RF-86	675.40'	RF-87	675.40'	5.72'	6" PVC	2.50%
88	WYE BEND	681.73	RF-81 RF-87	675.26' 675.26'	RF-88	675.26'	74.44'	10" PVC	2.50%
89	PROPOSED CATCH BASIN	678.96	RF-88	673.40'					

CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATER TOWN, MA 02472
 PHONE (617) 576-0007
 ARCSO@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.
 THE CONTRACTOR IS SPECIFICALLY 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 IN THE FIELD. CORE STATES, INC. DOES NOT WARRANT THE LOCATION OR DEPTH OF UTILITIES. THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CONNECTIONS TO ALL UTILITIES PRIOR TO CONSTRUCTION OF UTILITIES.

REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	06/12/20	REVISED PER TOWN COMMENTS	MP
2	06/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

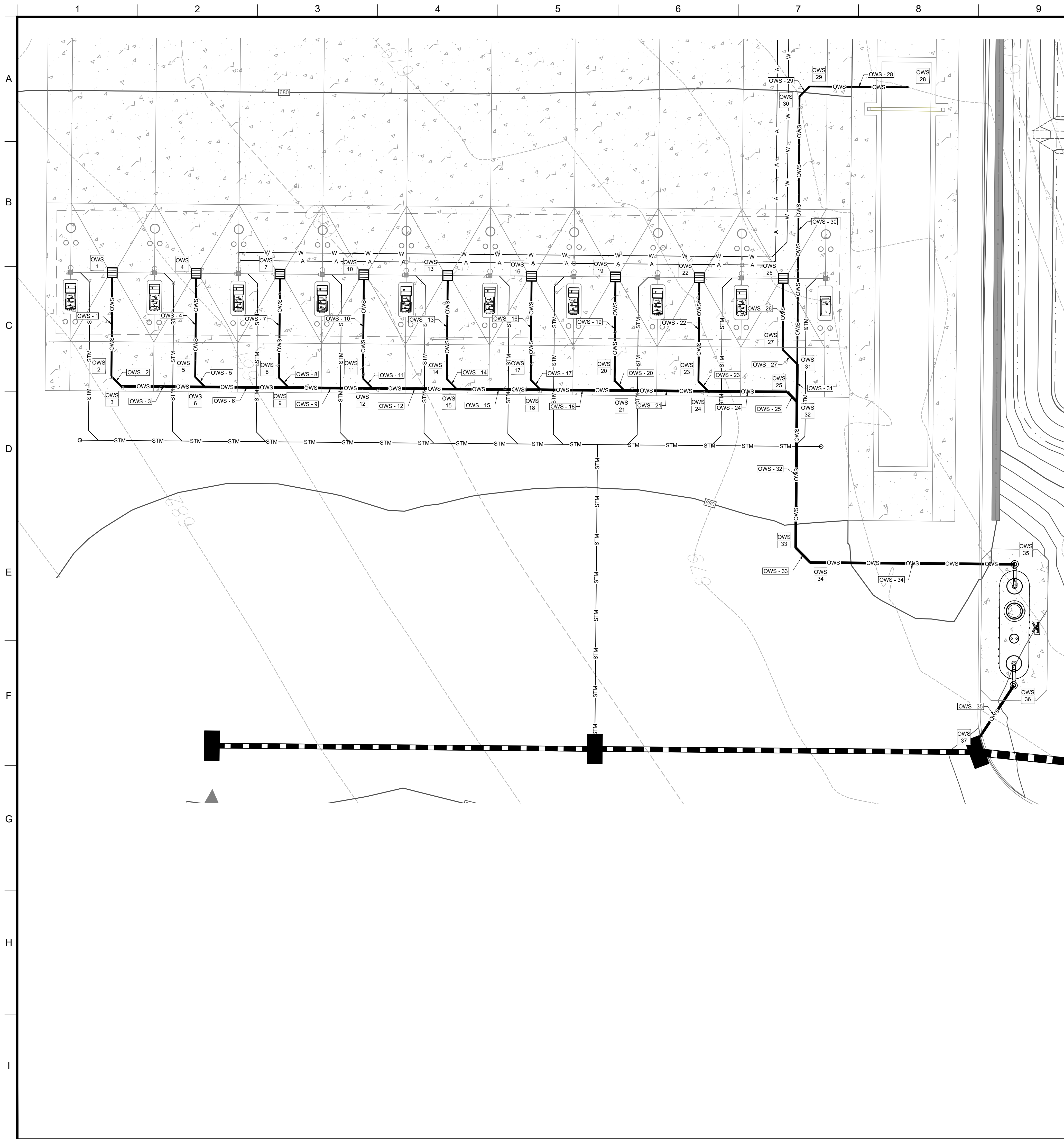
 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

SHEET TITLE
 ROOF DRAIN
 UTILITY
 PLAN

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

SHEET NO.
C6.2.1

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OWS 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	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							
37	PROPOSED CURB INLET	678.92	OWS - 35	673.62'					

CORE STATES GROUP
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 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.

REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	06/12/20	REVISED PER TOWN COMMENTS	MP
2	06/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

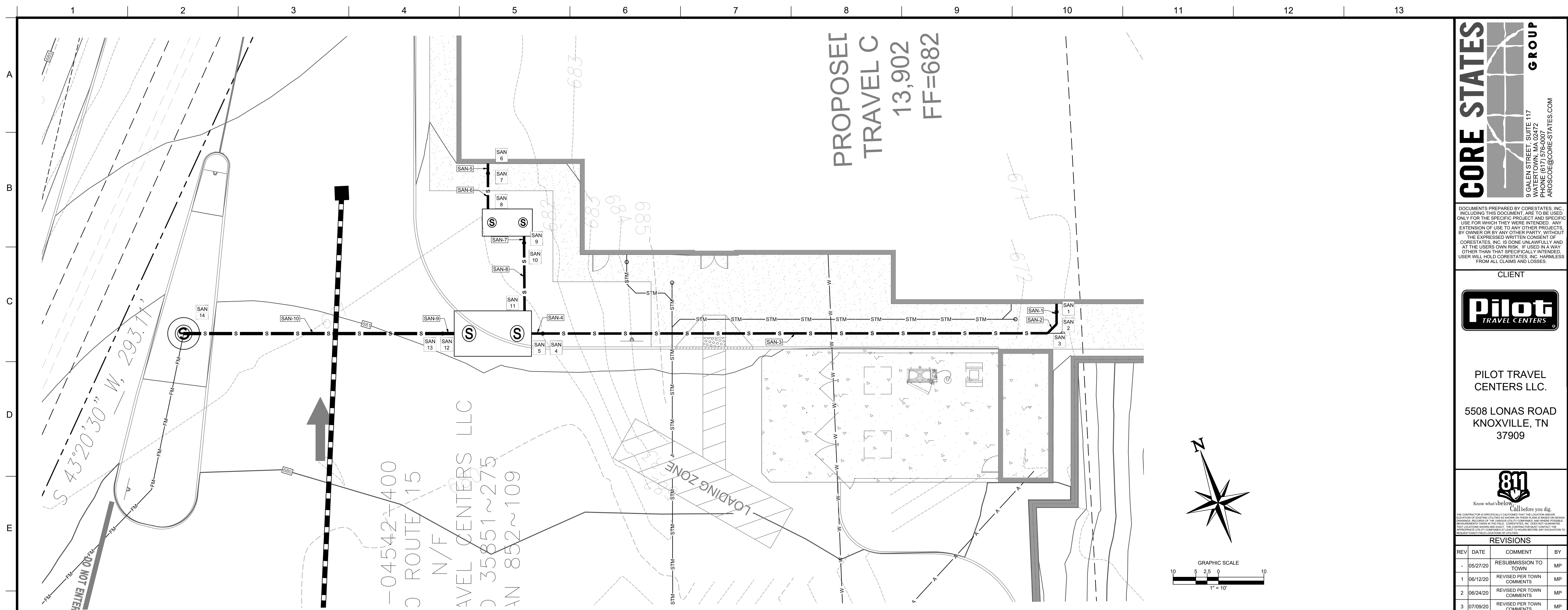
 ALAN D. ROSCOE, P.E.
 LICENSE # 40163

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:
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PROPOSED
TRAVEL C
13,902
FF=682



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	678.50'	4.50'	6" PVC	1.00%
2	45° BEND	681.45	SAN-1	678.46'	SAN-2	678.46'	2.83'	6" PVC	1.00%
3	CLEANOUT	681.43	SAN-2	678.43'	SAN-3	678.43'	111.19'	6" PVC	1.03%
4	CLEANOUT	681.74	SAN-3	677.28'	SAN-4	677.28'	2.50'	6" PVC	1.00%
5	10,000 GAL SEPTIC TANK INLET	681.74	SAN-4	677.25'					
6	BUILDING STUB	682.00			SAN-5	678.50'	2.16'	6" PVC	3.72%
7	CLEANOUT	681.98	SAN-5	678.42'	SAN-6	678.42'	7.84'	6" PVC	3.77%
8	1,500 GAL GREASE TRAP INLET	681.92	SAN-6	678.12'					
9	1,500 GAL GREASE TRAP OUTLET	681.92			SAN-7	677.87'	1.49'	6" PVC	3.77%
10	CLEANOUT	681.92	SAN-23 SAN-23 SAN-7	678.01' 678.01' 677.82'	SAN-8	677.82'	14.97'	6" PVC	3.77%
11	10,000 GAL SEPTIC TANK INLET	681.80	SAN-8	677.25'					
12	10,000 GAL SEPTIC TANK OUTLET	681.15			SAN-9	677.00'	2.54'	8" PVC	0.50%
13	6" Cleanout	681.12	SAN-9	676.99'	SAN-10	676.99'	57.07'	8" PVC	0.50%
14	PROPOSED LIFT STATION	681.29	SAN-10	676.70'					

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

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CLIENT
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REVISIONS			
REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	06/12/20	REVISED PER TOWN COMMENTS	MP
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DOCUMENT
SITE PLAN
APPROVAL

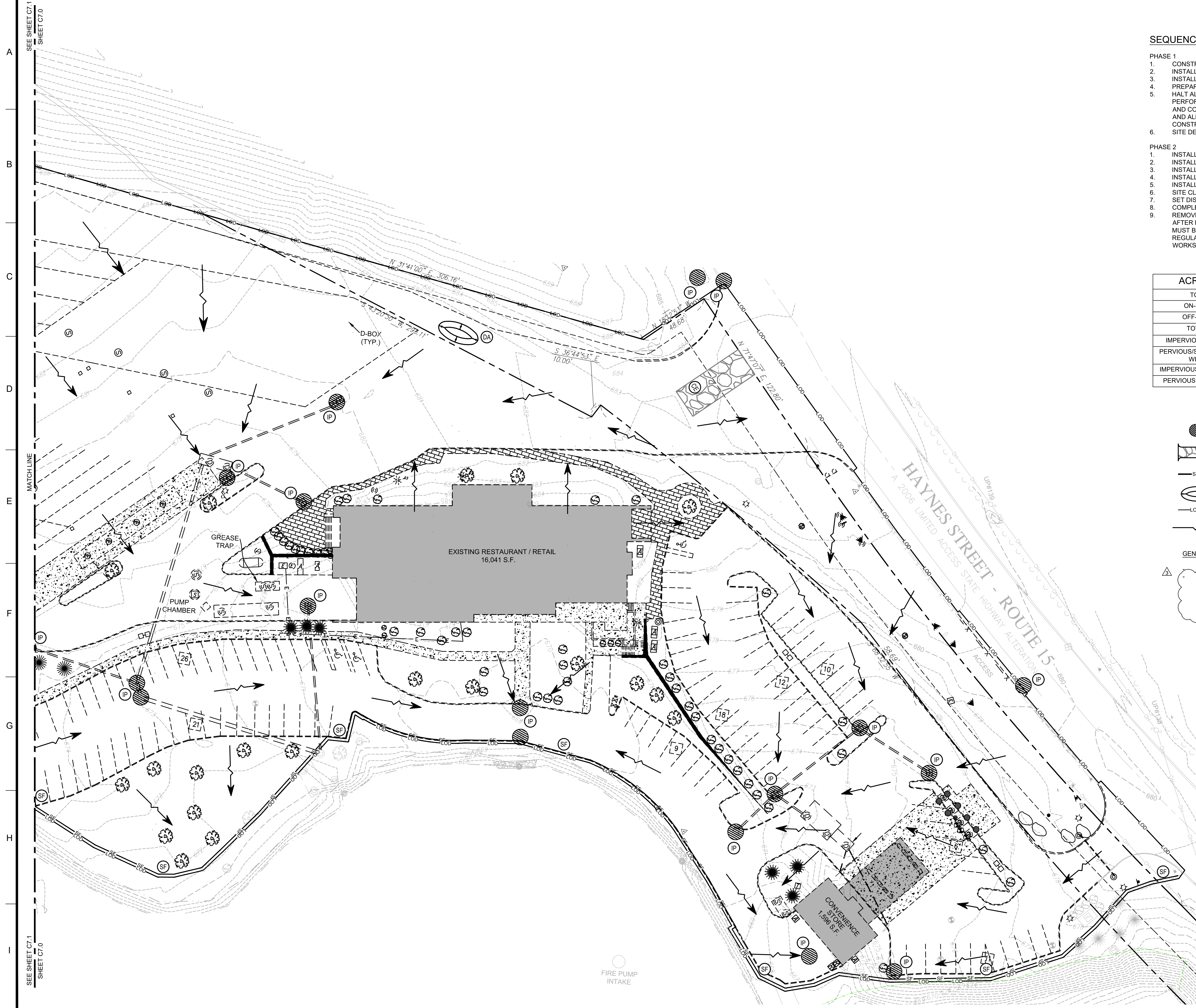
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE
CIVIL ENGINEER
No. 40163
REGISTERED PROFESSIONAL ENGINEER
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



SEQUENCE OF CONSTRUCTION

- PHASE 1**
1. CONSTRUCT THE SILT FENCES ON THE SITE.
 2. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
 3. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
 4. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 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.
 7. SET DISPENSERS AND CALIBRATE.
 8. COMPLETE GRADING AND INSTALL LANDSCAPING.
 9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AFTER FINAL STABILIZATION. TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL REGULATIONS, HAS BEEN APPROVED BY THE CITY OF COCOA'S PUBLIC WORKS DEPARTMENT OR THE BUILDING INSPECTION DEPARTMENT.

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
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

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

GENERAL NOTES:

REFER TO SHEET C7.4 FOR EROSION CONTROL DETAILS. STOCKPILE AREAS SHALL ONLY BE ALLOWED IN AREAS WHERE SUITABLE EROSION CONTROLS ARE IN PLACE AND DRAINAGE INLETS ARE PROTECTED AS INDICATED ON OUR EROSION & SEDIMENTATION CONTROL DRAWINGS. STOCKPILES TO REMAIN FOR MORE THAN TWO DAYS SHALL BE COVERED.

CORE STATES GROUP
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 AKOSCOE@CORE-STATES.COM

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CLIENT

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3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

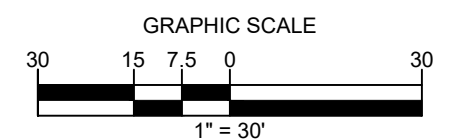
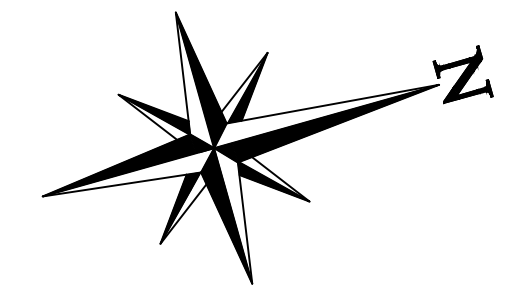
ALAN D. ROSCOE, P.E.
 LICENSE # 40163

19/02/20

SHEET TITLE
PHASE 1 SOIL EROSION AND SEDIMENT CONTROL

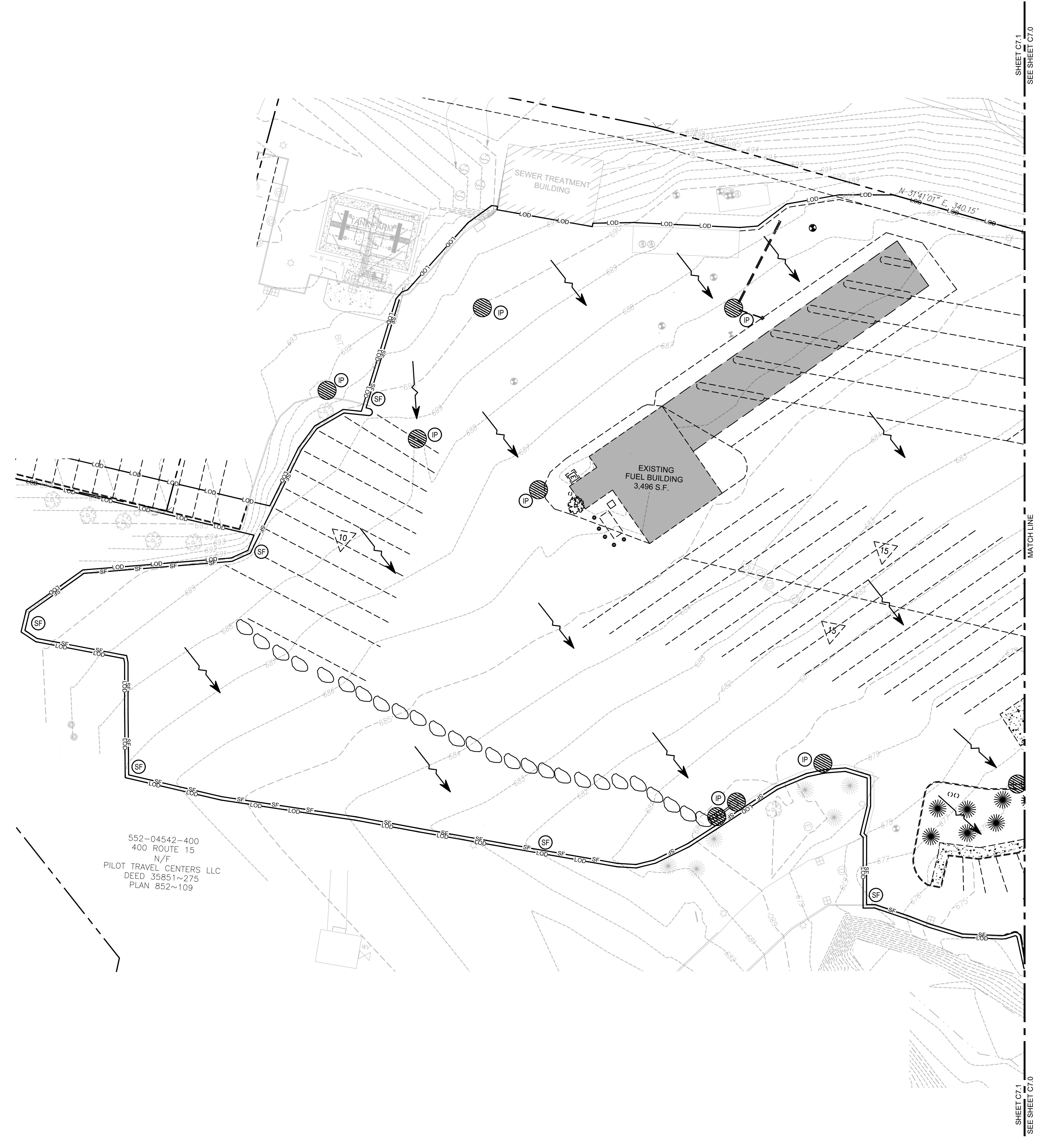
JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
C7.0



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.



SHEET C7.1
SEE SHEET C7.0

SEQUENCE OF CONSTRUCTION

- PHASE 1**
1. CONSTRUCT THE SILT FENCES ON THE SITE.
 2. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
 3. INSTALL CONSTRUCTION EXIT AND ADDITIONAL BMP'S.
 4. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 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.
 7. SET DISPENSERS AND CALIBRATE.
 8. COMPLETE GRADING AND INSTALL LANDSCAPING.
 9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AFTER FINAL STABILIZATION. TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED IN ACCORDANCE WITH EROSION AND SEDIMENT CONTROL REGULATIONS, HAS BEEN APPROVED BY THE CITY OF COCOA'S PUBLIC WORKS DEPARTMENT OR THE BUILDING INSPECTION DEPARTMENT.

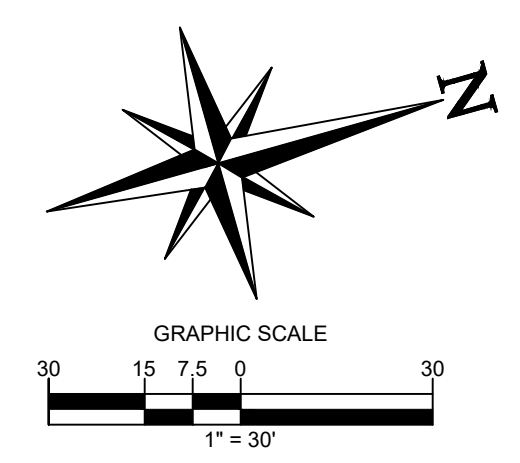
ACREAGE SUMMARY (IN ACRES)	
TOTAL PROJECT AREA	30.71
ON-SITE DISTURBED AREA	8.906
OFF-SITE DISTURBED AREA	0.211
TOTAL DISTURBED AREA	9.117
IMPERVIOUS AREA WITHIN PROPERTY	6.557
PERVIOUS/SEEDED AREA AT COMPLETION WITHIN THE PROPERTY	2.349
IMPERVIOUS AREA WITHIN RIGHT-OF-WAY	0.097
PERVIOUS AREA WITHIN RIGHT-OF-WAY	0.114

E&S PLAN LEGEND

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

GENERAL NOTES:

REFER TO SHEET C7.4 FOR EROSION CONTROL DETAILS. STOCKPILE AREAS SHALL ONLY BE ALLOWED IN AREAS WHERE SUITABLE EROSION CONTROLS ARE IN PLACE AND DRAINAGE INLETS ARE PROTECTED AS INDICATED ON OUR EROSION & SEDIMENTATION CONTROL DRAWINGS. STOCKPILES TO REMAIN FOR MORE THAN TWO DAYS SHALL BE COVERED.



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CORE STATES GROUP

9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
PHONE (617) 576-0007
ARCOSOC@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 TOWN	MP
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2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN APPROVAL

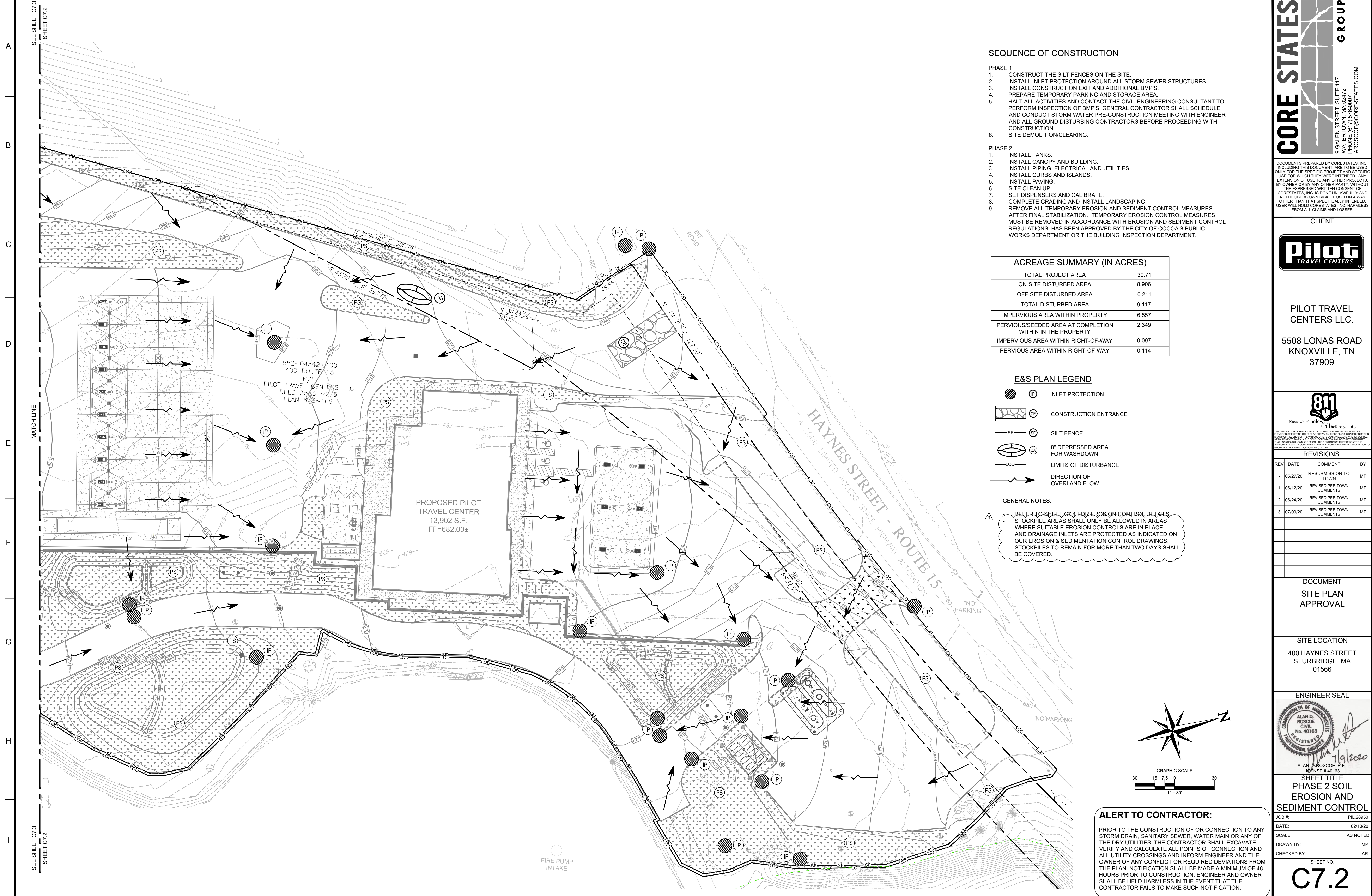
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

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
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ACREAGE SUMMARY (IN ACRES)

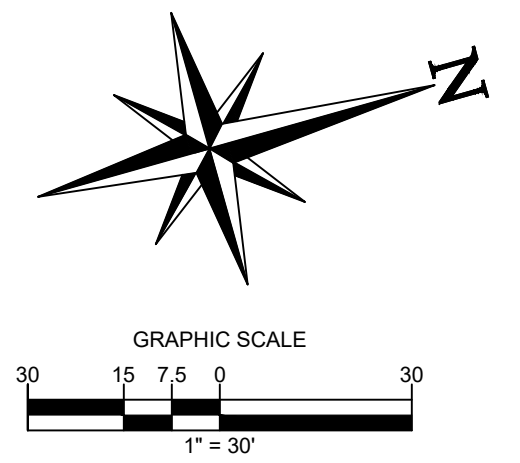
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E&S PLAN LEGEND

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

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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.

REVISIONS

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3	07/09/20	REVISED PER TOWN COMMENTS	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 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 C7.3
SEE SHEET C7.2

MATCH LINE

SHEET C7.2
SEE SHEET C7.1

SEQUENCE OF CONSTRUCTION

- PHASE 1**
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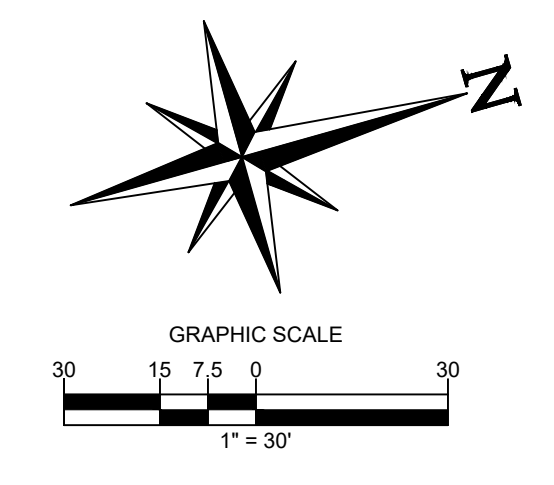
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E&S PLAN LEGEND

- IP INLET PROTECTION
- CE CONSTRUCTION ENTRANCE
- SF SILT FENCE
- DA 8\"/>

GENERAL NOTES:

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

CORE STATES GROUP

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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
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REVISIONS

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2	06/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

ALAN D. ROSCOE
CIVIL ENGINEER
No. 40163
REGISTERED PROFESSIONAL ENGINEER

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

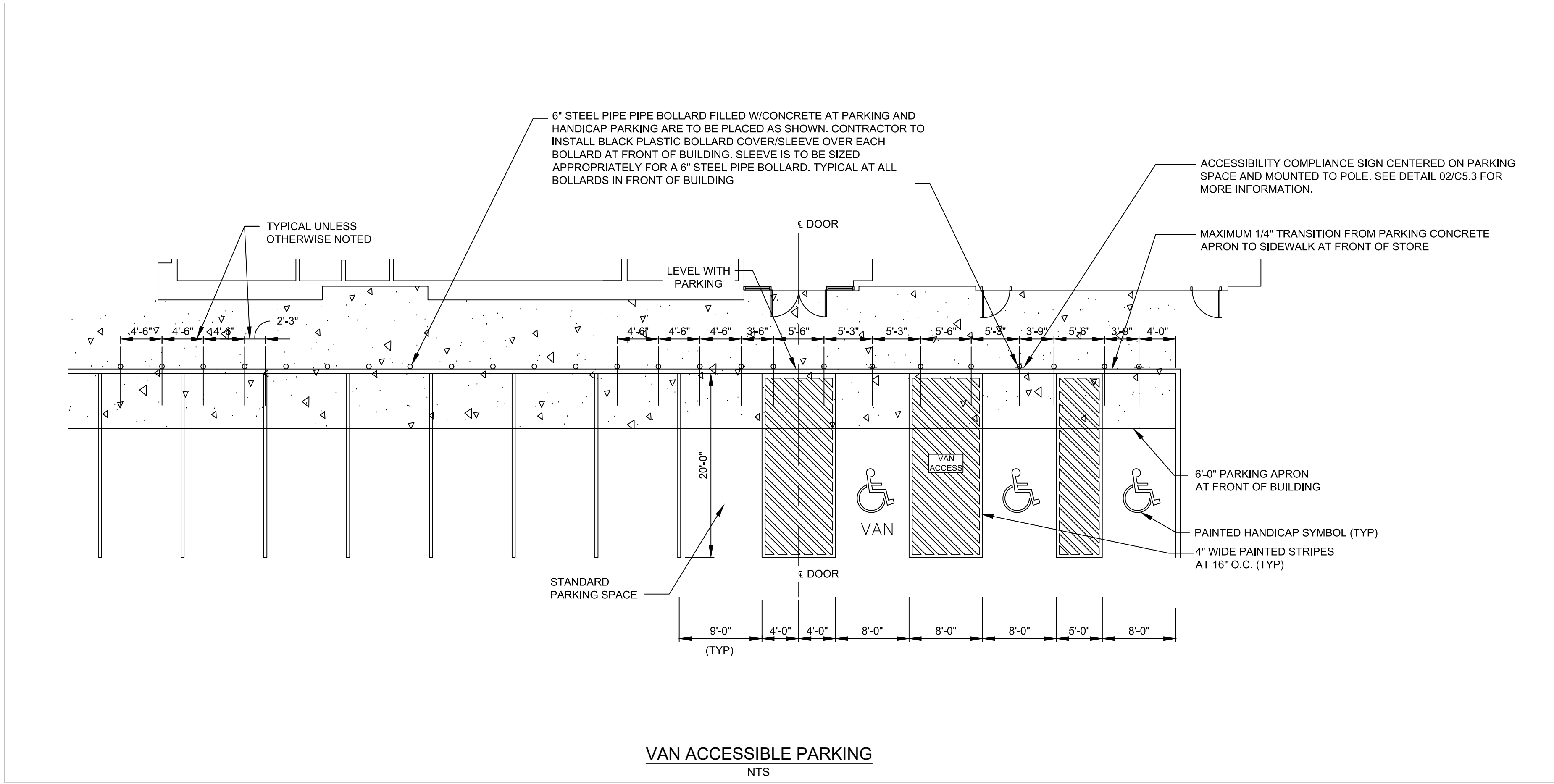
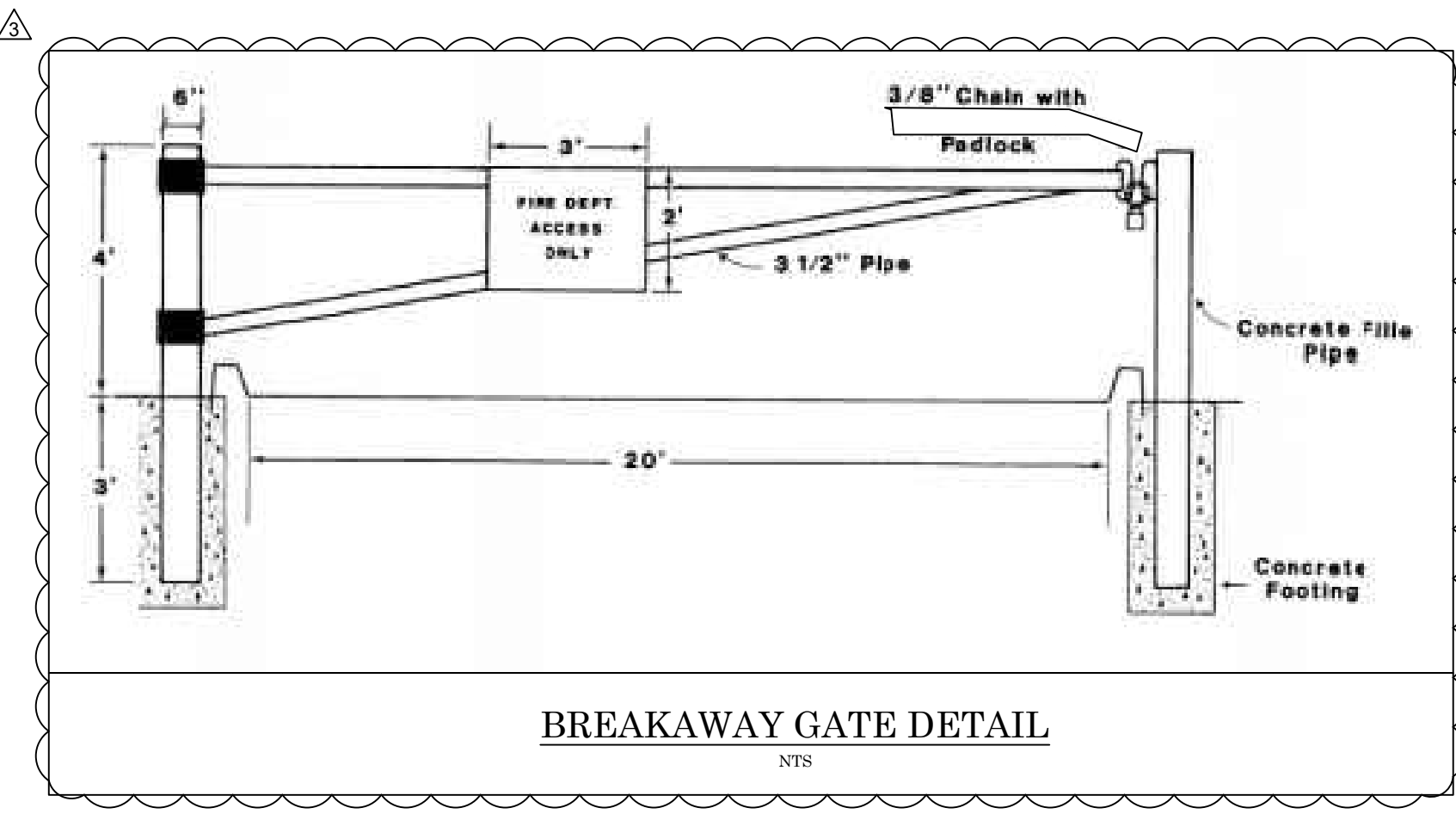
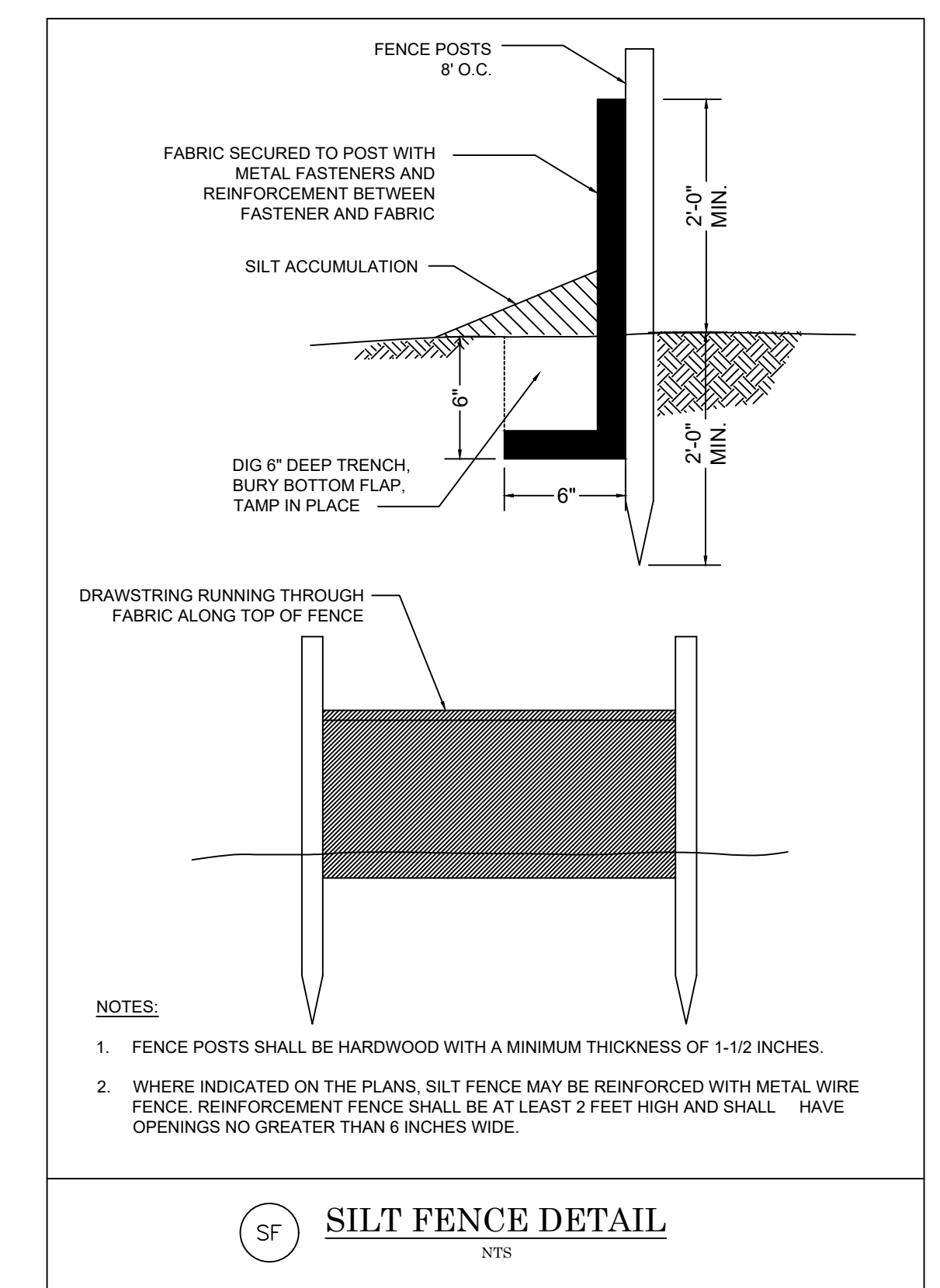
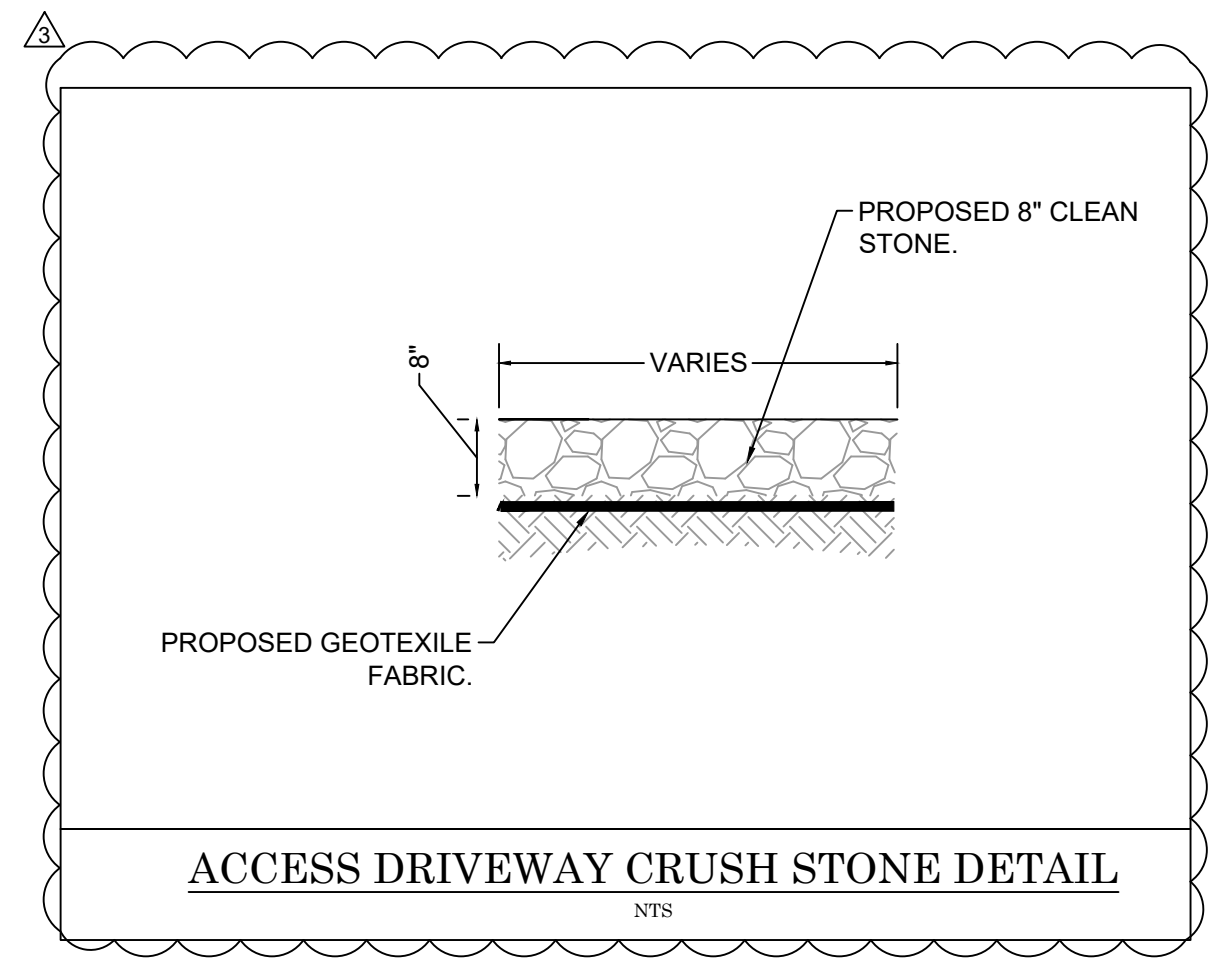
SHEET TITLE
PHASE 2 SOIL EROSION & SEDIMENT CONTROL

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

SHEET NO.
C7.3

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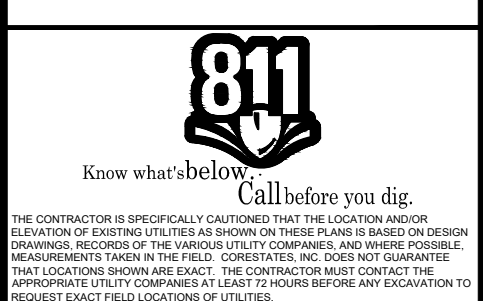


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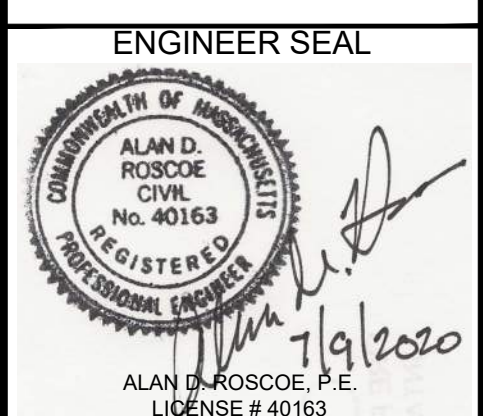
CLIENT
Pilot TRAVEL CENTERS LLC.
 5508 LONAS ROAD
 KNOXVILLE, TN 37909



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DOCUMENT
SITE PLAN APPROVAL

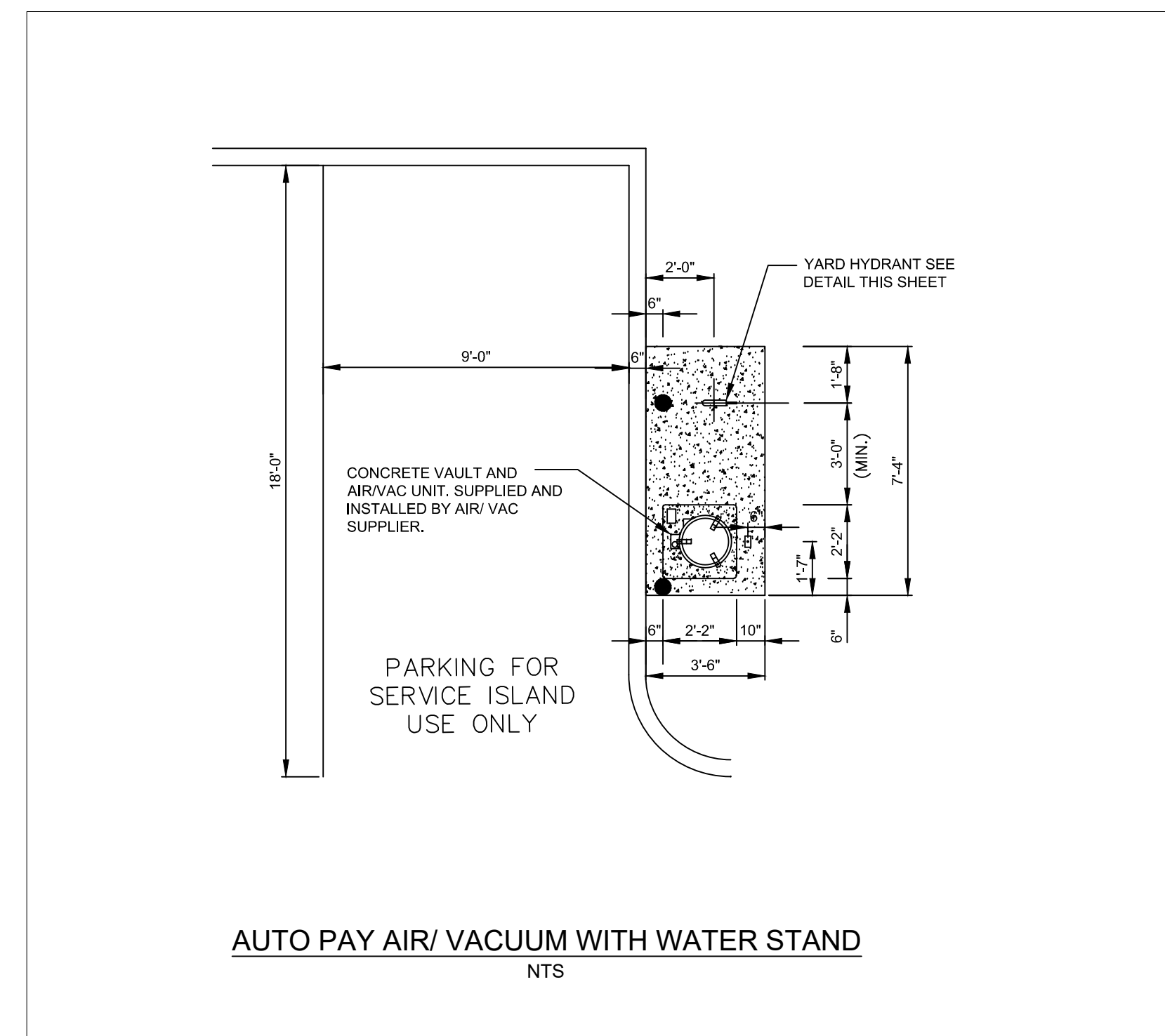
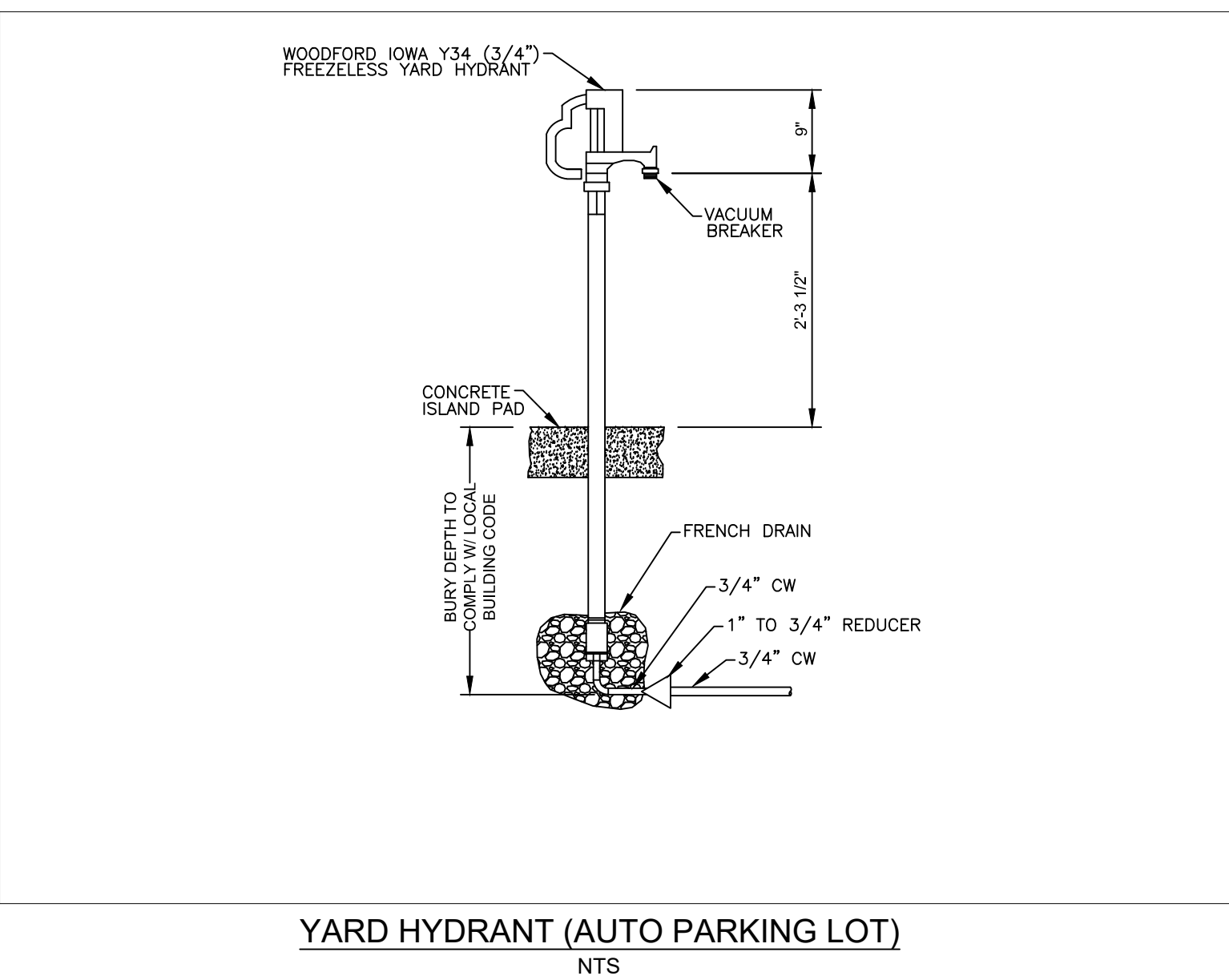
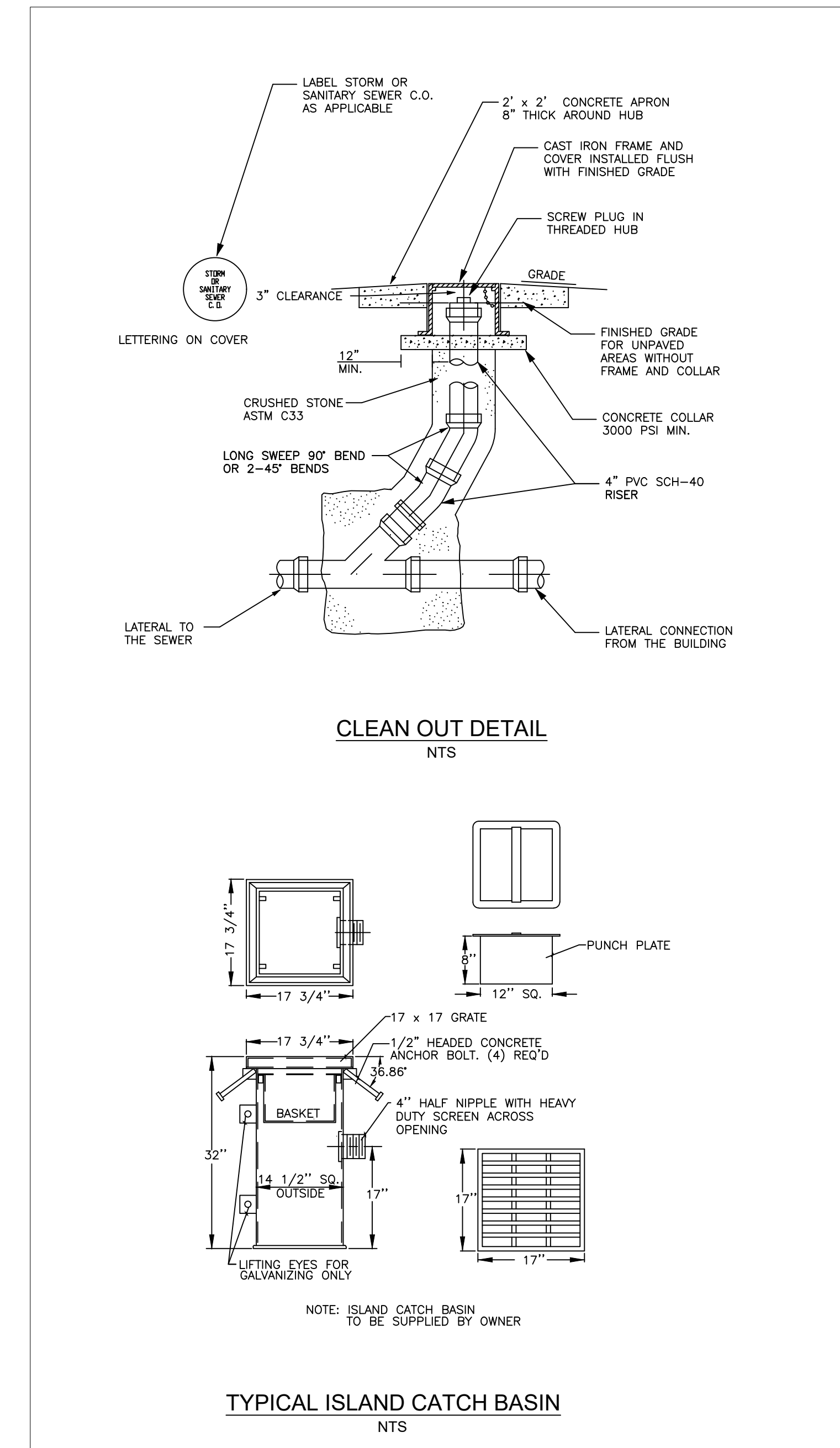
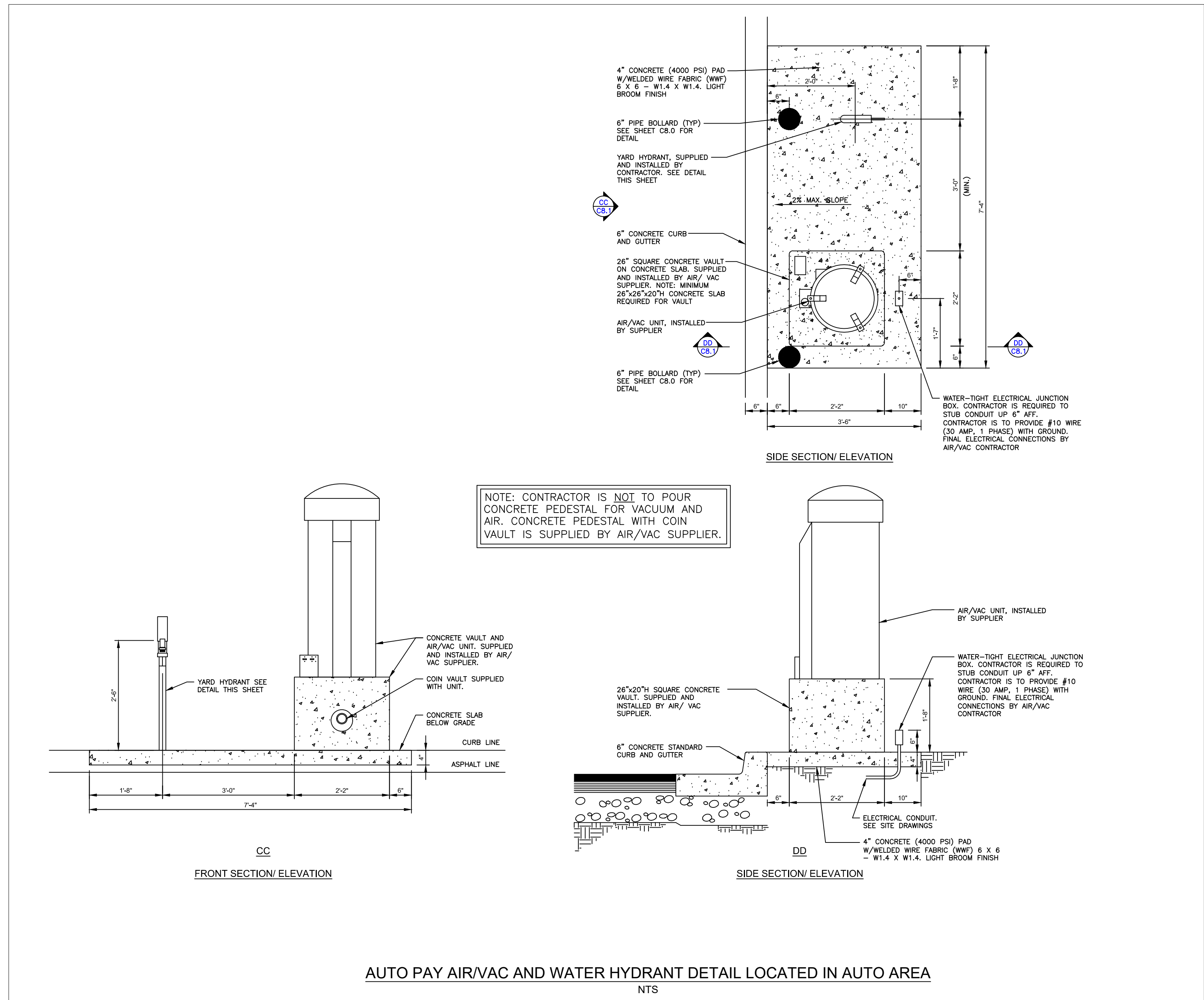
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566



SHEET TITLE
CONSTRUCTION DETAILS

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

SHEET NO.
C8.0



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

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

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DOCUMENT
SITE PLAN
APPROVAL

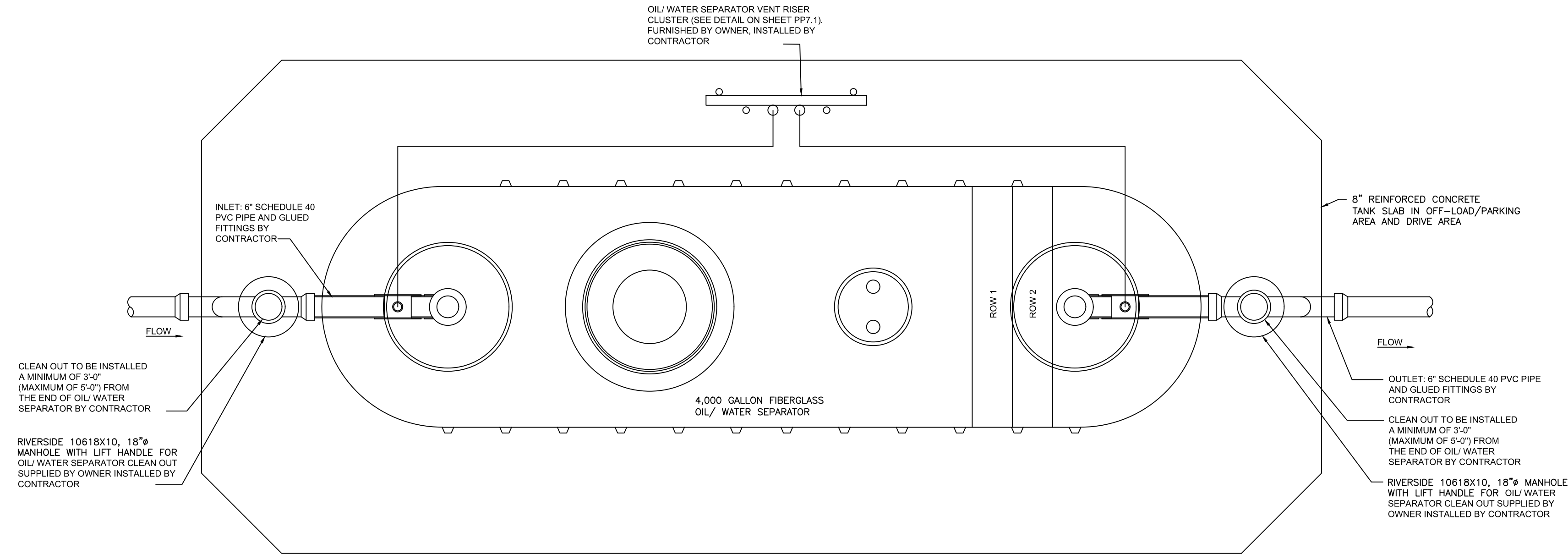
SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL
ALAN D. ROSCOE
CIVIL
REGISTERED PROFESSIONAL ENGINEER
LICENSE # 40163
1/9/2020

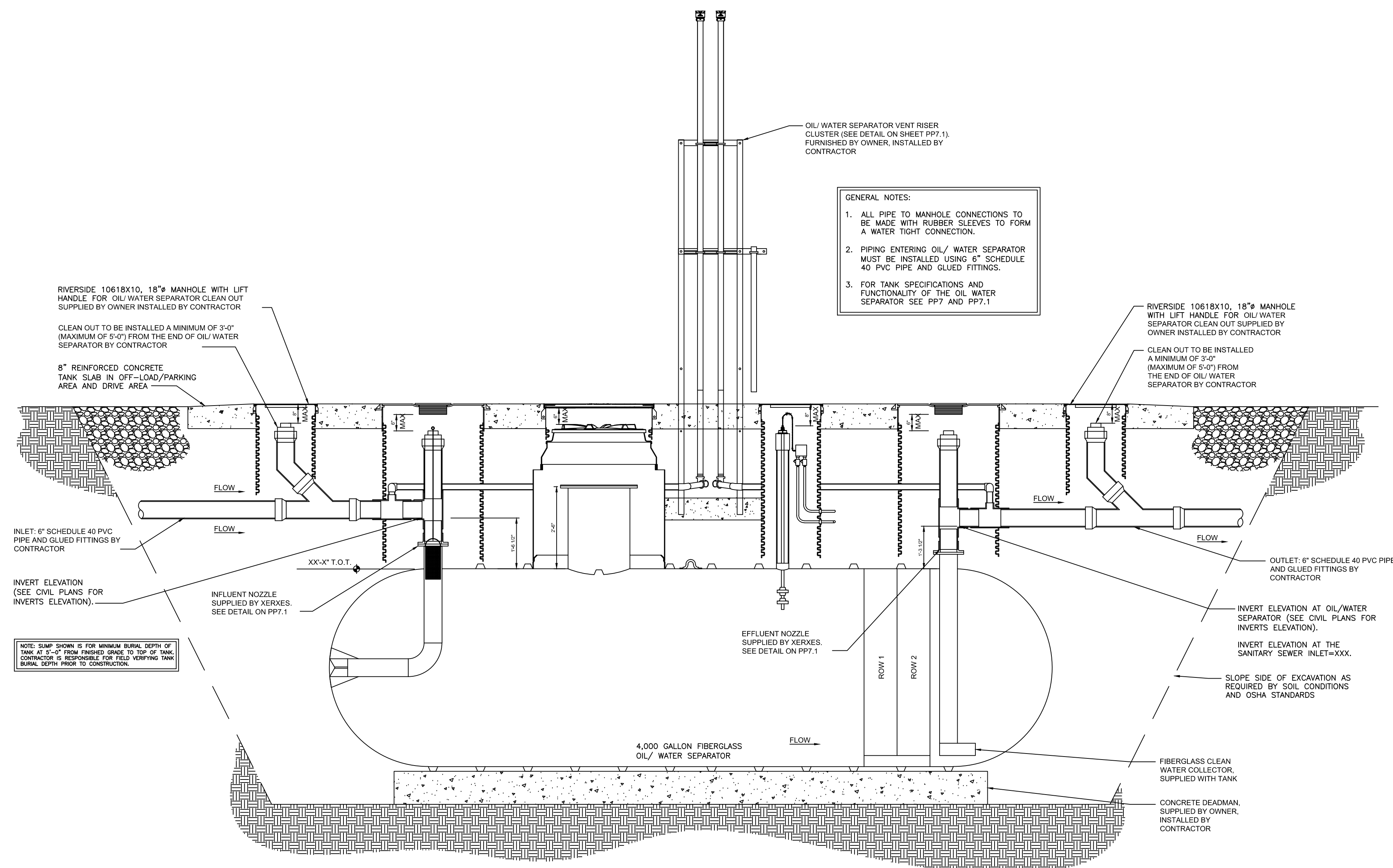
SHEET TITLE
CONSTRUCTION
DETAILS

JOB #: PIL 28950
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CHECKED BY: AR

SHEET NO.
C8.1



TANK PLAN VIEW
NTS



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.

CORE STATES GROUP

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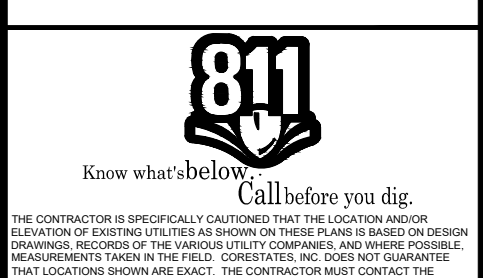


CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN
37909



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 AND ARE SUBJECT TO CHANGE. MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT WARRANT THE LOCATION OR DEPTH OF EXISTING UTILITIES. THE CONTRACTOR MUST CONTACT THE UTILITIES CENTER OR OWNERS OF UTILITIES TO BE LOCATED PRIOR TO CONSTRUCTION TO VERIFY EXISTING UTILITIES.

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3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

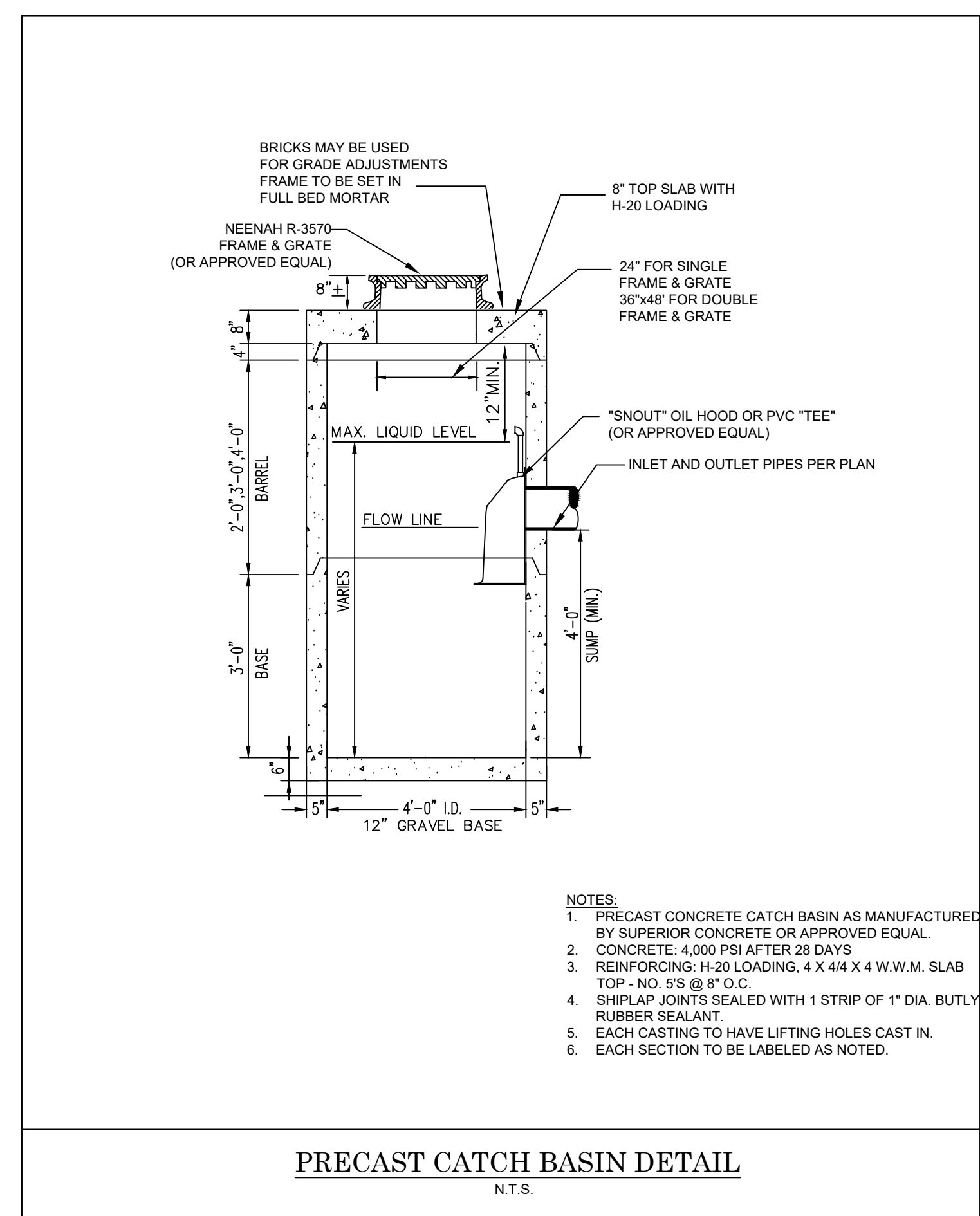
ENGINEER SEAL

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

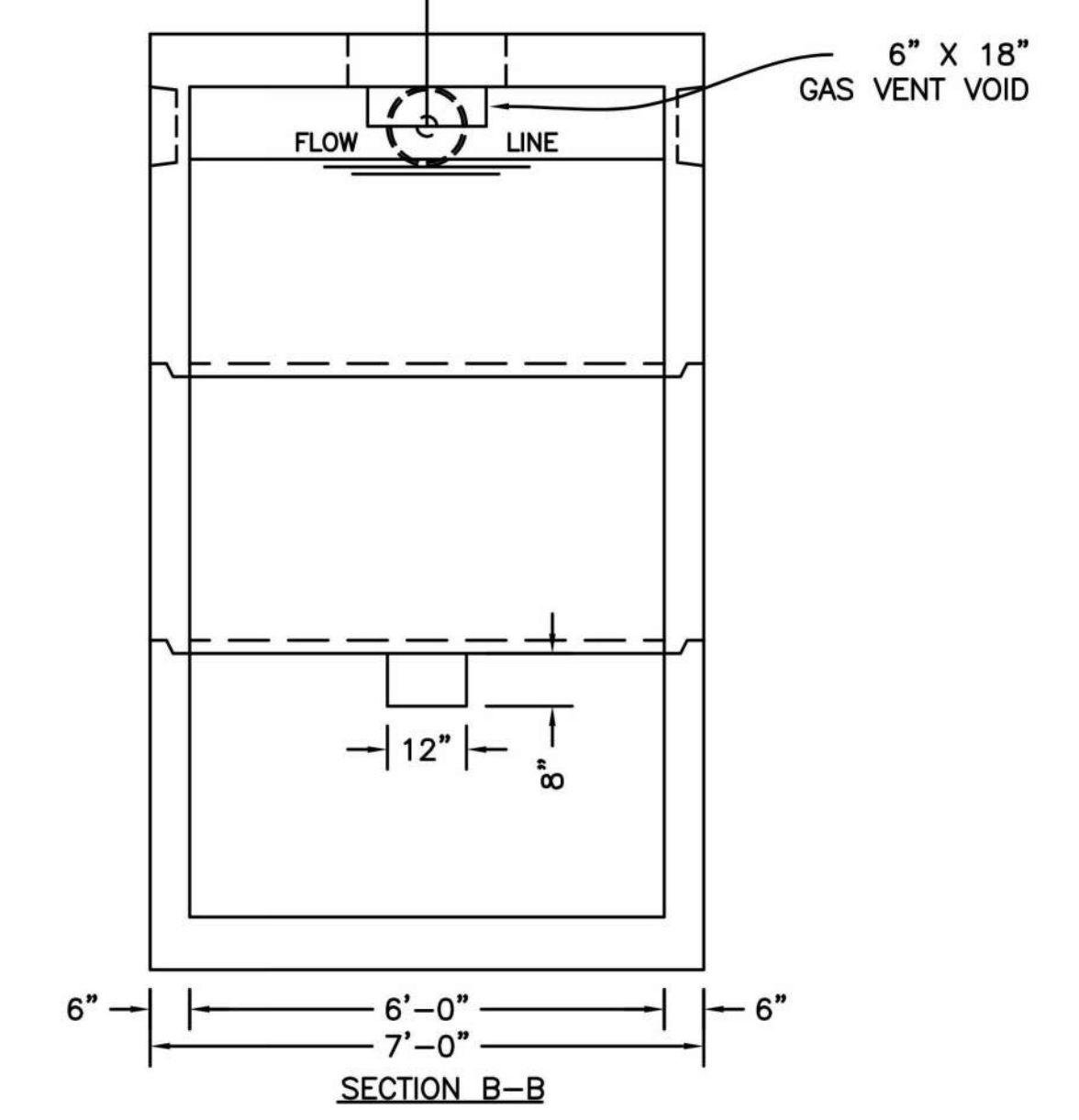
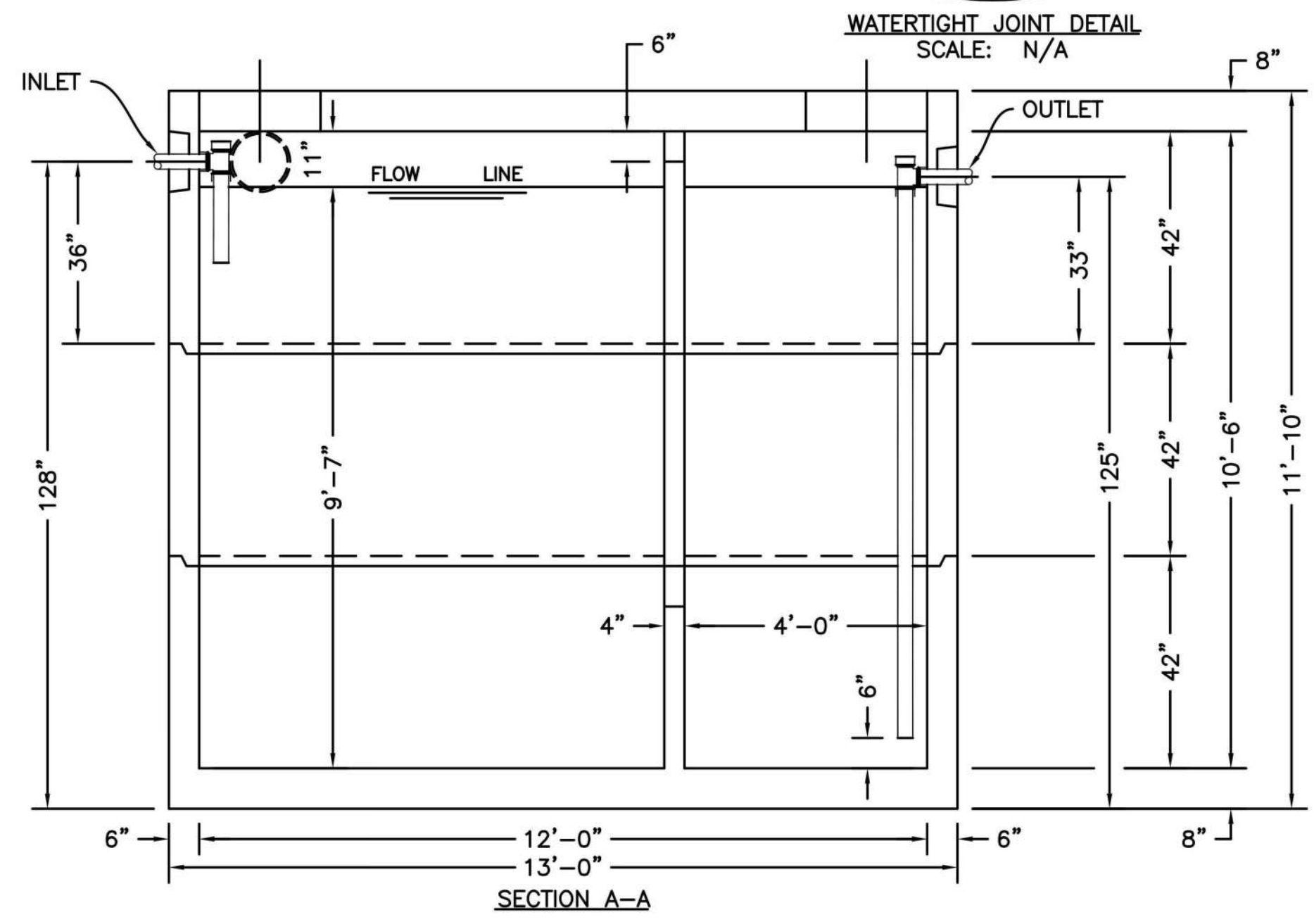
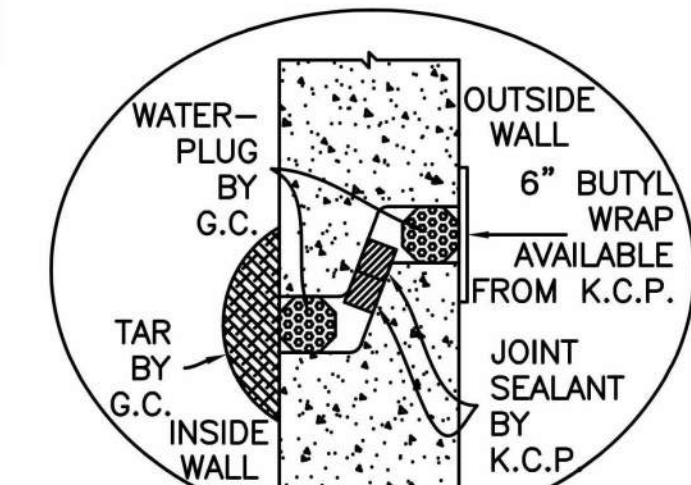
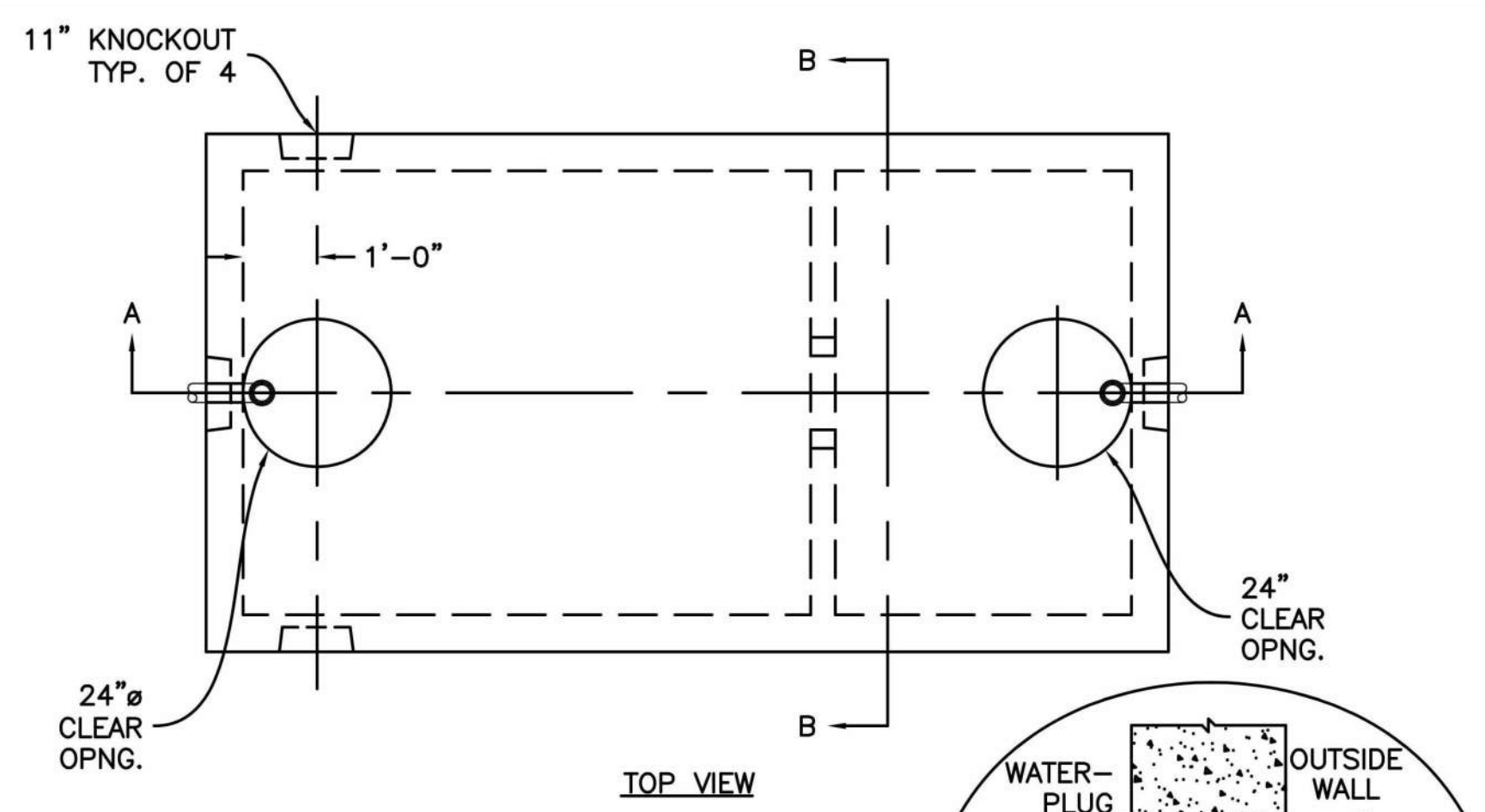
SHEET TITLE
CONSTRUCTION
DETAILS

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

SHEET NO.
C8.2



- NOTES:**
1. PRECAST CONCRETE CATCH BASIN AS MANUFACTURED BY SUPERIOR CONCRETE OR APPROVED EQUAL.
 2. CONCRETE: 4,000 PSI AFTER 28 DAYS
 3. REINFORCING: H-20 LOADING, 4 X 4 1/4 X 4 W.W.M. SLAB TOP - NO. 5'S @ 8" O.C.
 4. SHIRLAP JOINTS SEALED WITH 1 STRIP OF 1" DIA. BUTYL RUBBER SEALANT.
 5. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 6. EACH SECTION TO BE LABELED AS NOTED.



OIL WATER SEPARATOR DETAIL
NTS

SP-7A SPECIFICATIONS:

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

DESIGN LOADING:

LIVE LOAD: H20.
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

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

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3	07/09/20	REVISED PER TOWN COMMENTS	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

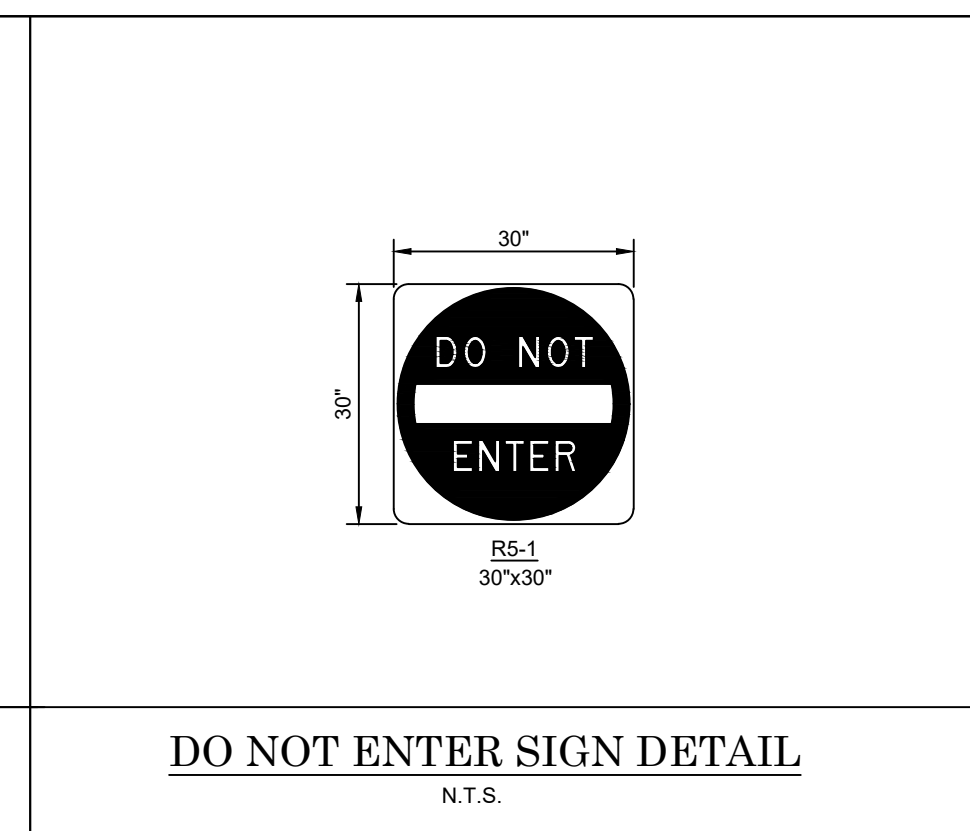
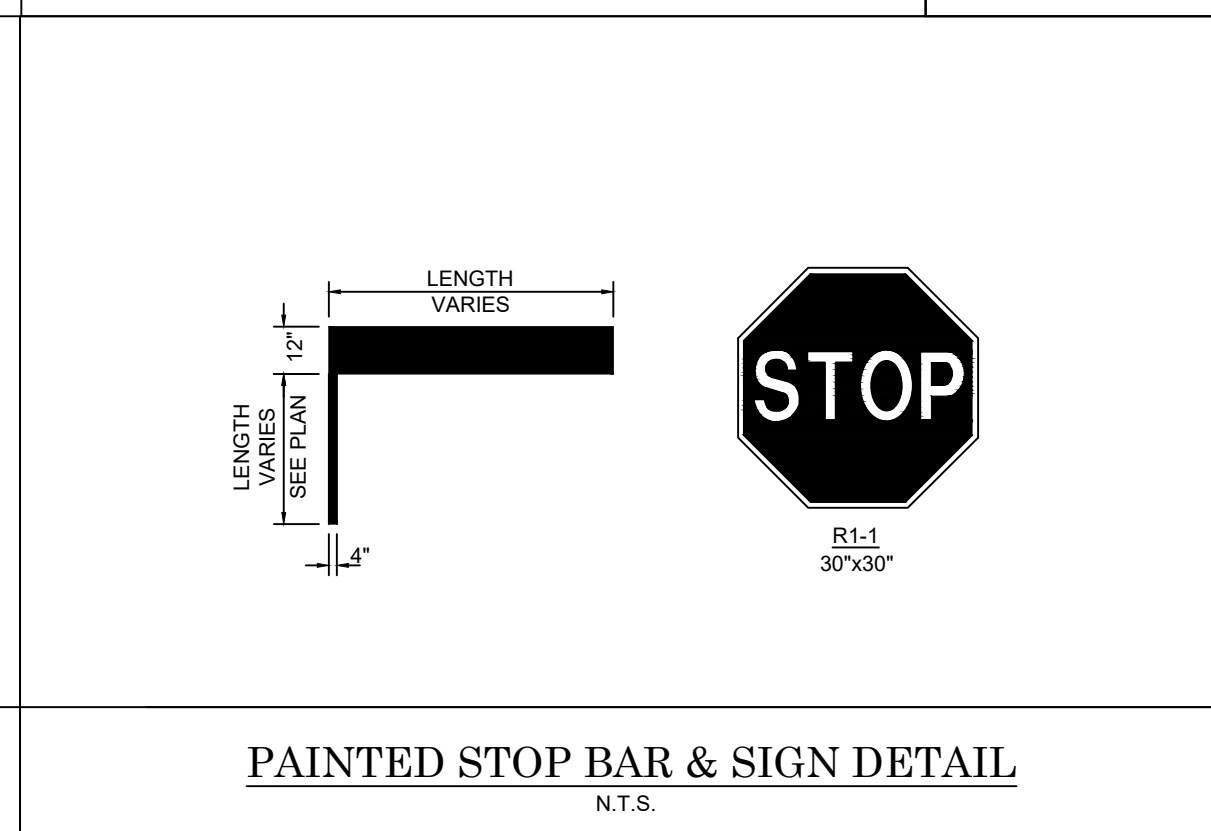
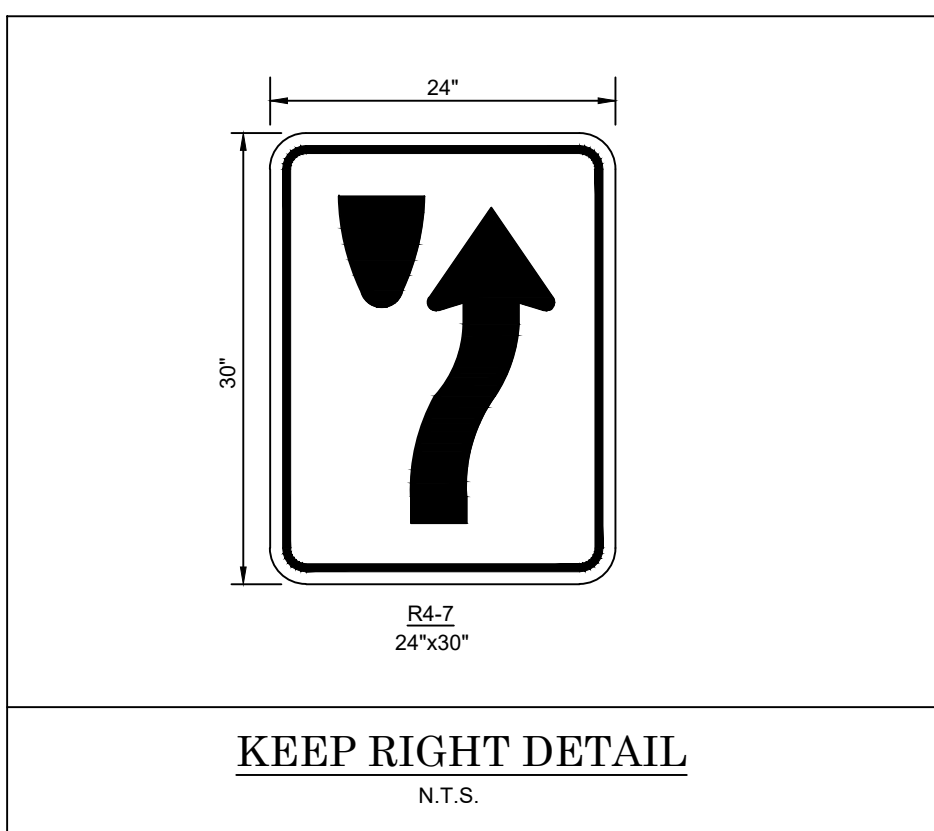
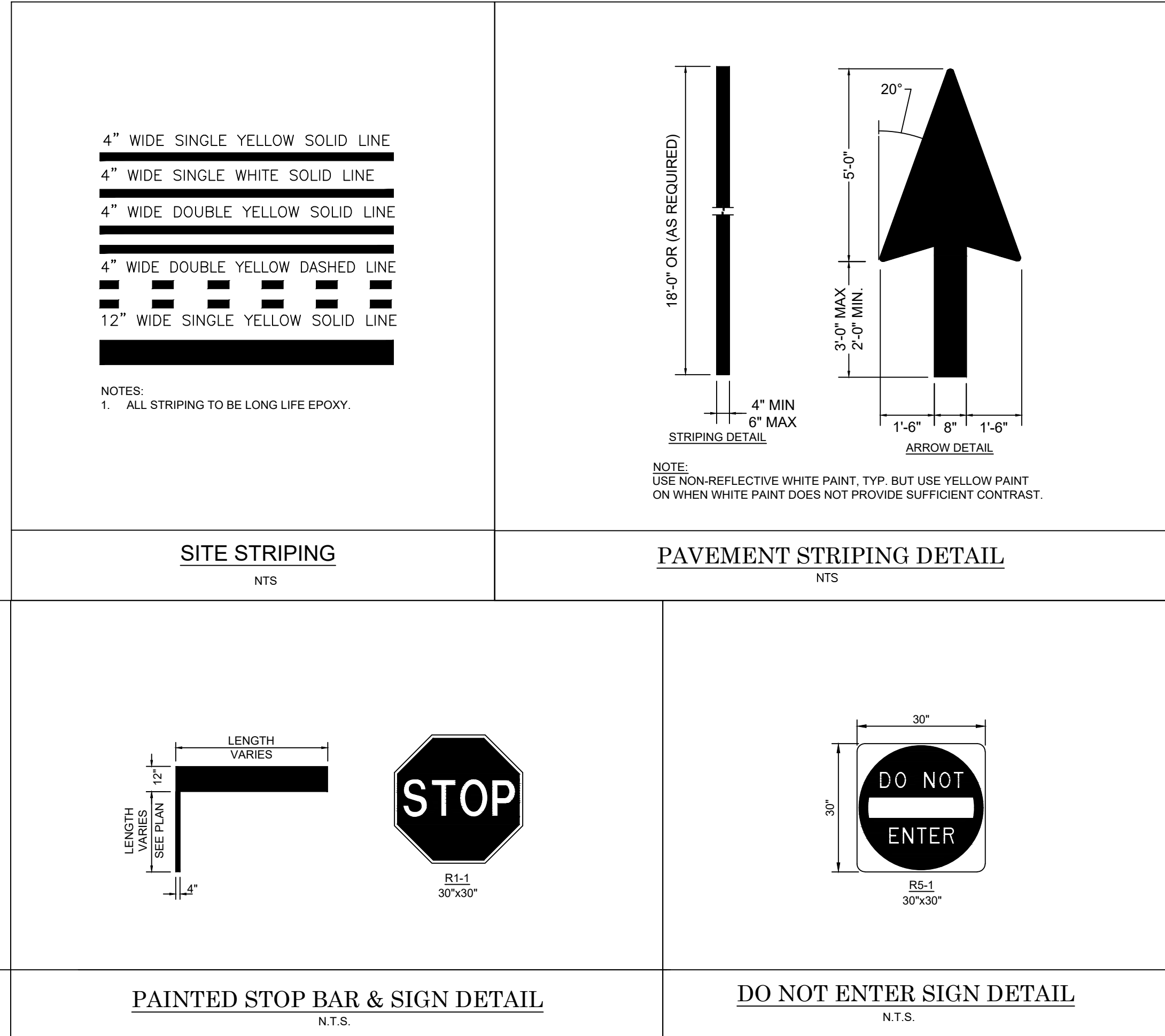
1/9/2020

SHEET TITLE
CONSTRUCTION
DETAILS

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

SHEET NO.
C8.3

NOTE:
CONSTRUCT RISERS WITH HEAVY DUTY FRAMES & COVERS TO GRADE AT EACH TANK INLET AND OUTLET.



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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
CONSTRUCTION
DETAILS

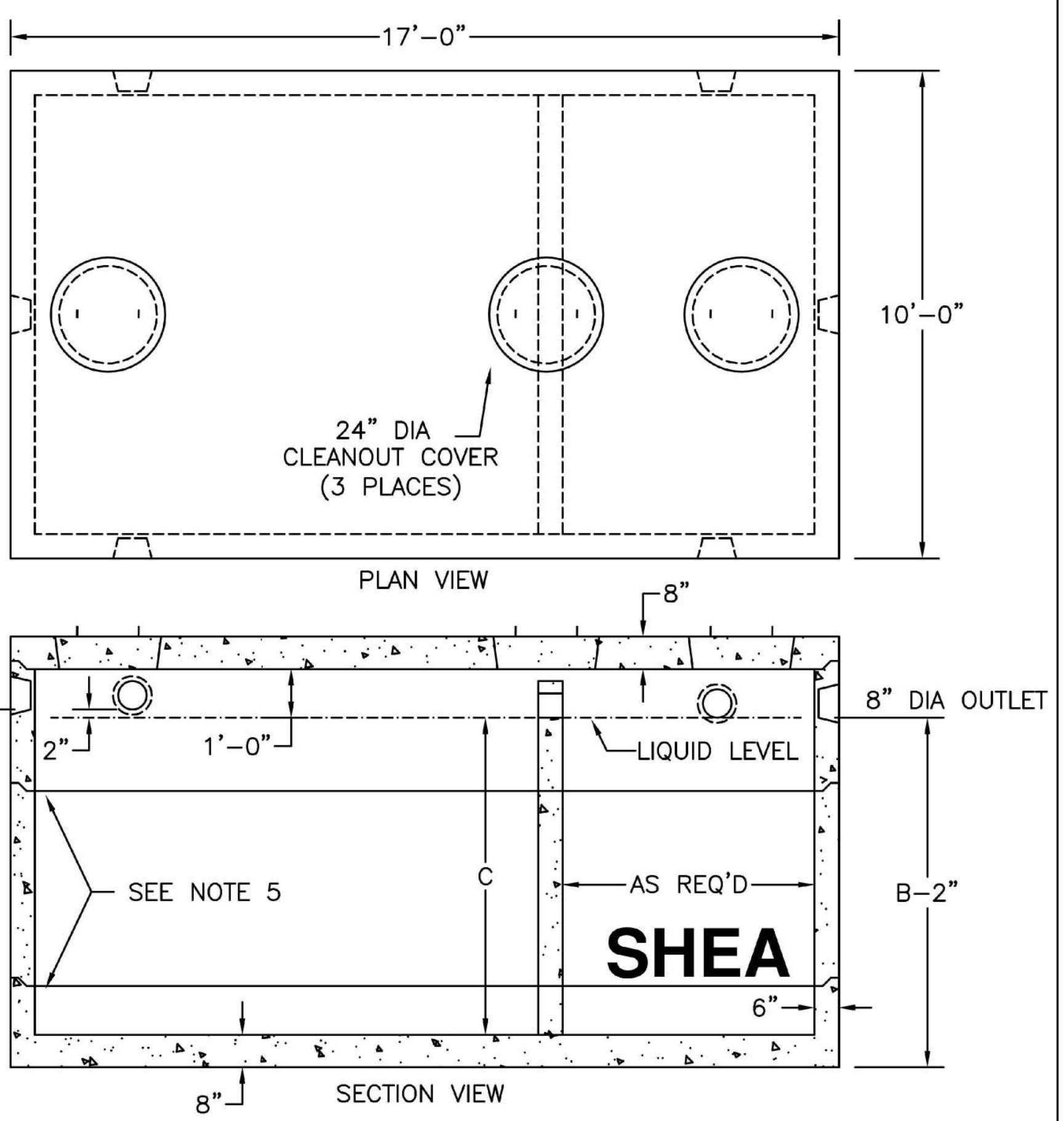
JOB #: P1L 28950
DATE: 02/10/20
SCALE: NTS
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C8.4

SHEA *New England's Premier Precaster*
 CONCRETE PRODUCTS 800-696-7432 (SHEA) www.sheaconcrete.com
 BILLING ADDRESS: 87 HAVERHILL RD, AMESBURY MA 01913

COMMERCIAL 2-COMP TANK
 4000 TO 12000 GALLON

- NOTES:
 1. CONCRETE, 5,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS, FOR SEPTIC TANKS.
 3. ALL REINFORCEMENT PER ASTM C1227.
 4. DESIGNED FOR AASHTO HS-20 LOADING, COVER 1-5 FEET.
 5. TONGUE AND GROOVE JOINT SEALED WITH BUTYL RESIN. INLET HEIGHT MAY INCREASE SLIGHTLY DUE TO THE BUTYL RESIN USED.
 6. TEES AND BAFFLES SOLD SEPARATELY.
 7. SPANNERS USED IN CENTER SECTIONS FOR TANKS GREATER THAN 7000 GALLONS.



GALLONS	A (HEIGHT)	B (INLET)	C (LIQUID)	TOTAL WEIGHT	RISER 1 SIZE	RISER 2 SIZE	RISER 3 SIZE	ITEM NO.
4,000	76"	58"	48"	55,366	48"	0	0	10X17-402C
5,000	88"	70"	60"	59,812	30"	30"	0	10X17-502C
5,500	92"	74"	64"	61,296	30"	34"	0	10X17-552C
6,000	96"	78"	68"	62,780	34"	34"	0	10X17-602C
6,500	100"	82"	72"	64,258	30"	42"	0	10X17-652C
7,000	106"	88"	78"	66,482	30"	48"	0	10X17-702C
7,500	112"	94"	84"	68,704	42"	42"	0	10X17-752C
8,000	118"	100"	90"	70,928	42"	48"	0	10X17-802C
8,500	124"	106"	96"	73,152	48"	48"	0	10X17-852C
9,000	130"	112"	102"	75,374	30"	30"	42"	10X17-902C
9,500	136"	118"	108"	77,598	30"	30"	48"	10X17-952C
10,000	140"	122"	112"	79,082	30"	34"	48"	10X17-1002C
10,500	146"	128"	118"	81,304	34"	42"	42"	10X17-1052C
11,000	152"	134"	124"	83,528	34"	42"	48"	10X17-1102C
11,500	158"	140"	130"	85,752	34"	48"	48"	10X17-1152C
12,000	162"	144"	134"	87,232	38"	48"	48"	10X17-1202C

ITEM SIZE	WEIGHT
8" TOP	16,312#
21" BOTTOM	20,517#
30" RISER	11,116#
34" RISER	12,600#
38" RISER	14,080#
42" RISER	15,562#
48" RISER	17,786#

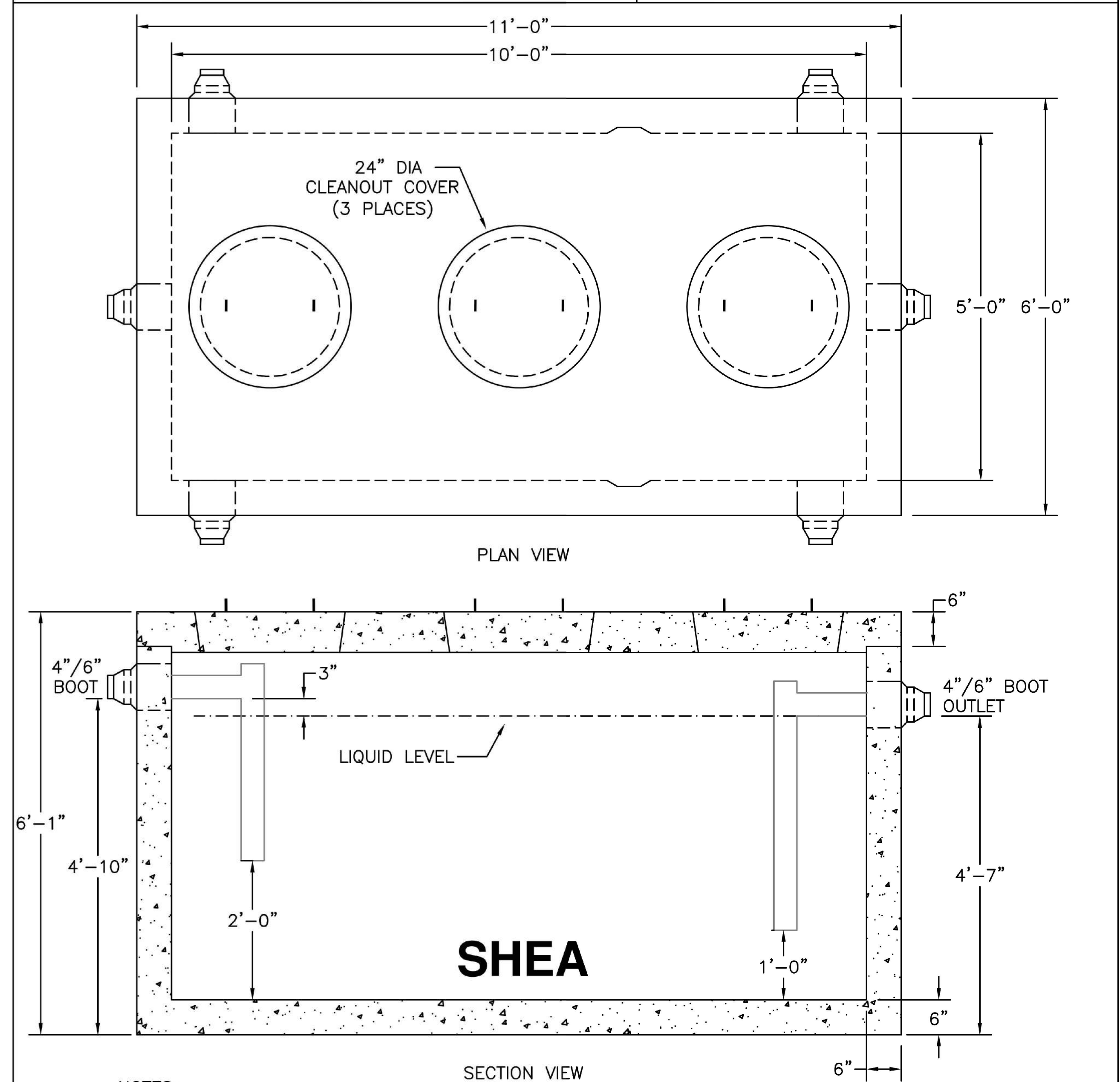
ALL RISERS HAVE SPANS

SHEA PRODUCT ID: SEE TABLE PREPARED FOR: FILE NAME: ctk10x172c.dwg
 WEIGHT (LBS): SEE TABLE DRAWN BY: ARO DATE: 03/01/2018 PAGE: 18.2
 773 Salem Street-Wilmington, MA | 153 Cranberry Hwy-Rochester, MA | 87 Haverhill Road-Amesbury, MA | 160 Old Turnpike Rd-Nottingham, NH

Specifications subject to change without notice

SHEA *New England's Premier Precaster*
 CONCRETE PRODUCTS 800-696-7432 (SHEA) www.sheaconcrete.com
 BILLING ADDRESS: 87 HAVERHILL RD, AMESBURY MA 01913

GREASE TRAP
 1500 GALLON



- NOTES:
 1. CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
 2. DESIGN CONFORMS WITH 310 CMR 15.00, DEP TITLE 5 REGS, FOR GREASE TRAPS.
 3. ALL REINFORCEMENT PER ASTM C1227.
 4. DESIGNED FOR AASHTO HS-20 LOADING, 1 TO 5 FT COVER.
 5. TONGUE & GROOVE JOINT SEALED WITH BUTYL RESIN
 6. TEES AND BAFFLES SOLD SEPARATELY

ITEM NO.	WEIGHT	TOP	BOTTOM
TK-M1500C	22,600#	5,400#	17,200#
TK-M1500C2C	24,400#	5,400#	19,000#

SHEA PRODUCT ID: SEE TABLE PREPARED FOR: FILE NAME: GTM1500.dwg
 WEIGHT (LBS): SEE TABLE DRAWN BY: ARO DATE: 06/11/2018 PAGE: K2
 773 Salem Street-Wilmington, MA | 153 Cranberry Hwy-Rochester, MA | 87 Haverhill Road-Amesbury, MA | 160 Old Turnpike Rd-Nottingham, NH

Specifications subject to change without notice

NOTE:
 CONSTRUCT RISERS WITH HEAVY DUTY FRAMES & COVERS TO GRADE AT EACH TANK INLET AND OUTLET.

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 INFO@CORE-STATES.COM

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 KNOXVILLE, TN 37909

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3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

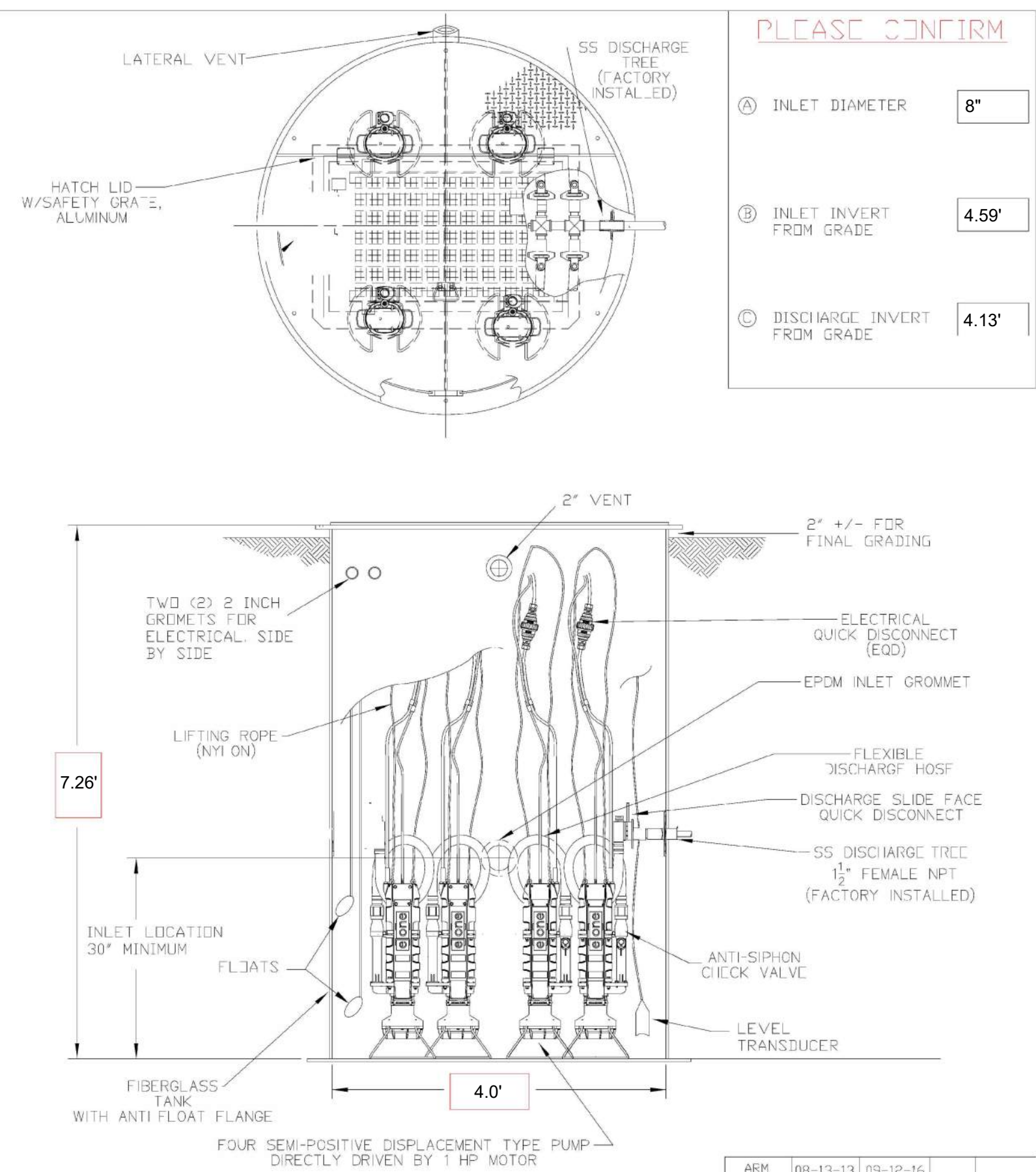
ENGINEER SEAL

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

SHEET TITLE
 CONSTRUCTION
 DETAILS

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

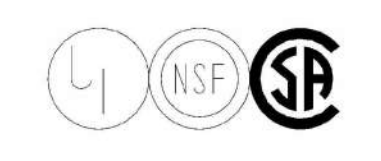
SHEET NO.
C8.5



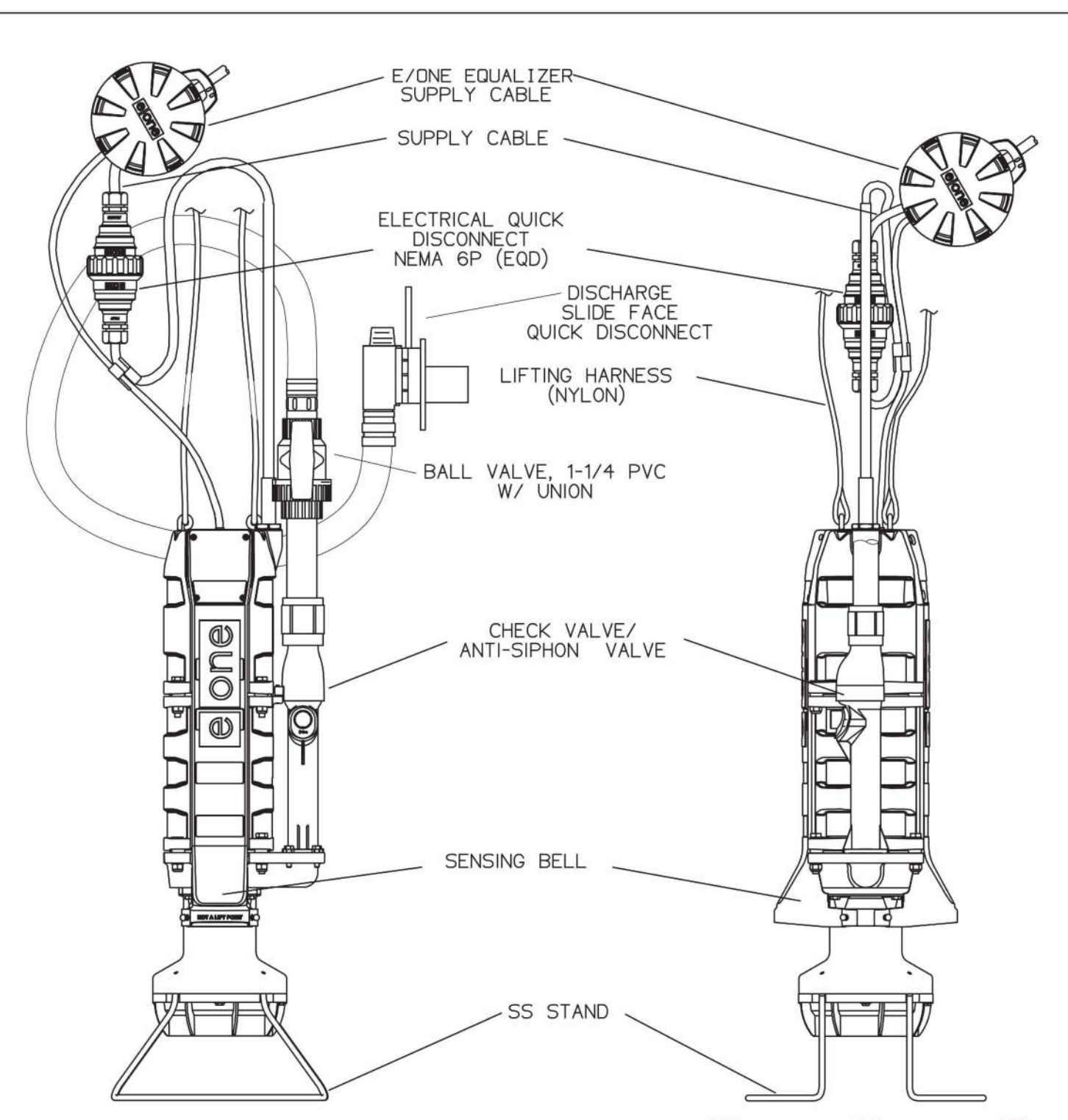
PLEASE CONFIRM

Ⓐ INLET DIAMETER	8"
Ⓑ INLET INVERT FROM GRADE	4.59'
Ⓒ DISCHARGE INVERT FROM GRADE	4.13'

ARM	08-13-13	09-12-16		
DR BY	DATE	RF V	ISSUE	SCALE
MAHONEY a subsidiary, etc. Water Supply & Pollution Control Equipment 275 Weymouth Street, Boston, Massachusetts 02370				
QUADRIplex (4.0' DIA x 7.26') FIBERGLASS STATION				



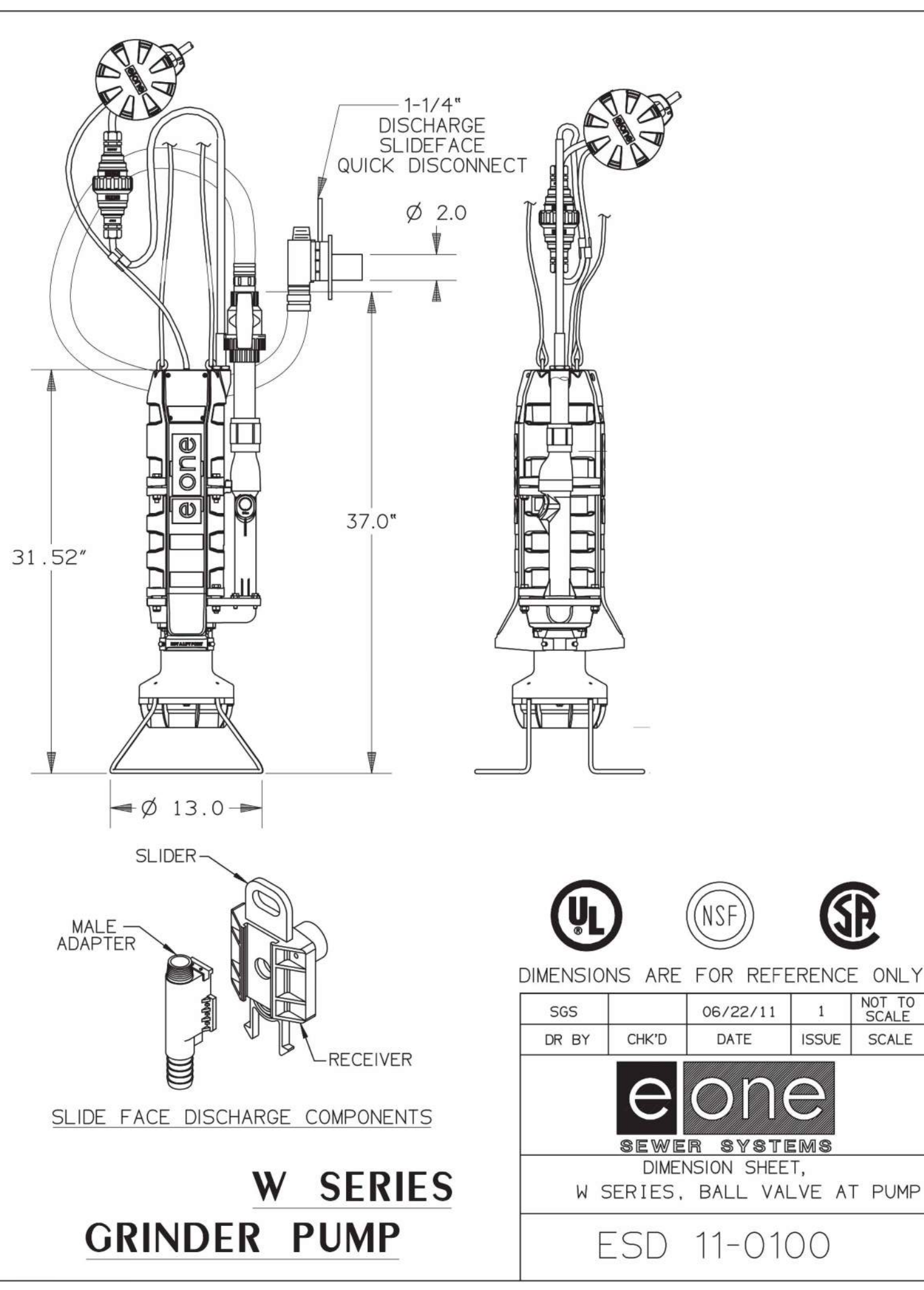
CONTRACTOR SHALL CONTACT SUPPLIER FOR SPECIFICATIONS ON CONCRETE BALLAST



W SERIES PUMP
W/OPTIONAL BALL VALVE

Operational Information
Motor: 1hp, 1725 rpm, high torque, capacitor start, thermally protected, 240v, 60hz, 1 phase
Discharge: 15 gpm at 0 psig
11 gpm at 40 psig
7.8 gpm at 80 psig

SGS	06/02/08	2	1/16
DR BY	CHK'D	DATE	ISSUE
environment one CORPORATION			
U & W SERIES PUMP BALL VALVE AT THE PUMP			
ESD 07-0157			



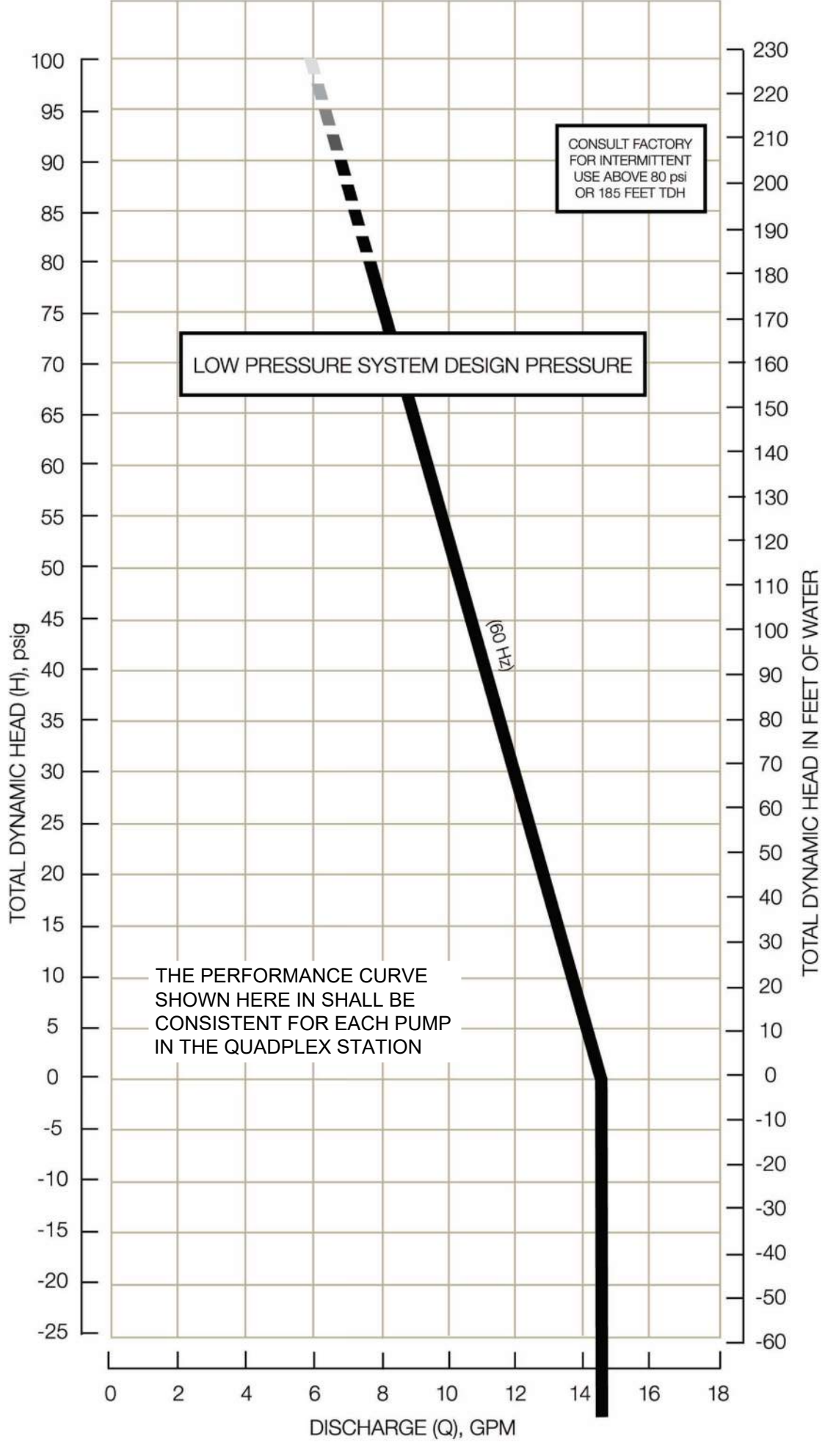
W SERIES
GRINDER PUMP

UL NSF SFA

DIMENSIONS ARE FOR REFERENCE ONLY

SGS	06/22/11	1	NOT TO SCALE
DR BY	CHK'D	DATE	ISSUE
eone SEWER SYSTEMS			
DIMENSION SHEET, W SERIES, BALL VALVE AT PUMP			
ESD 11-0100			

GRINDER PUMP PERFORMANCE CHARACTERISTICS



THE PERFORMANCE CURVE SHOWN HERE IN SHALL BE CONSISTENT FOR EACH PUMP IN THE QUADPLEX STATION

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

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APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

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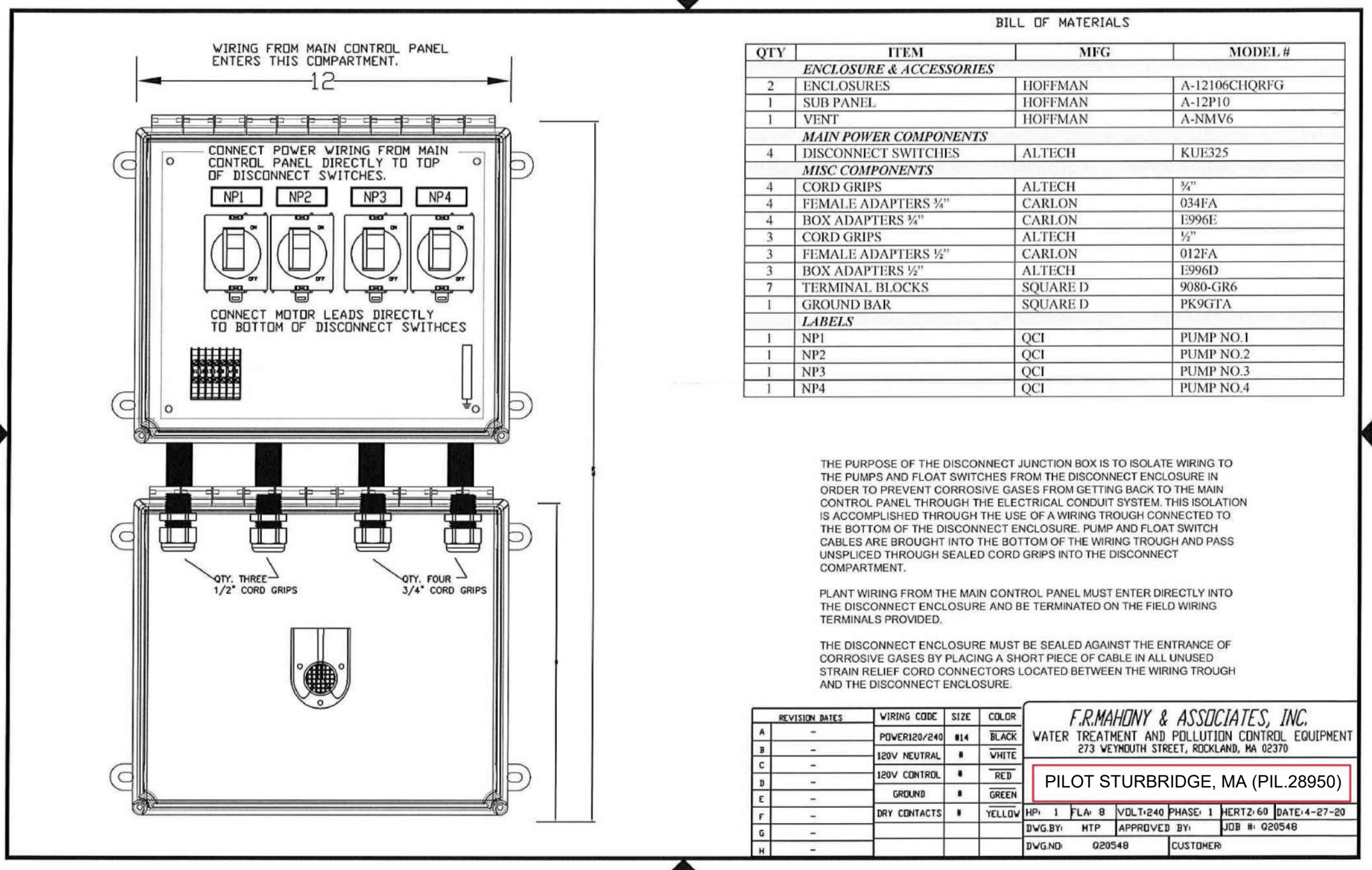
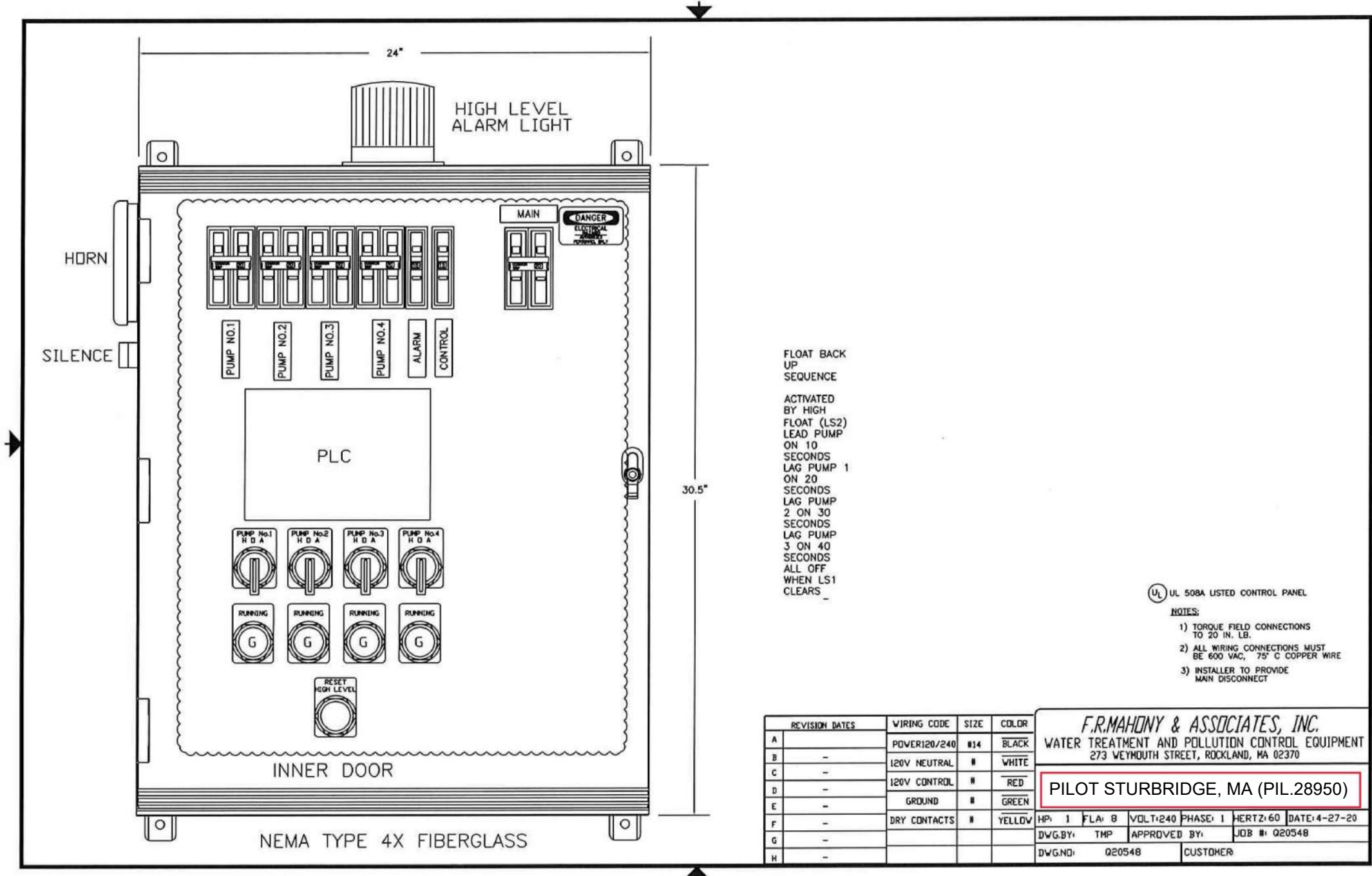
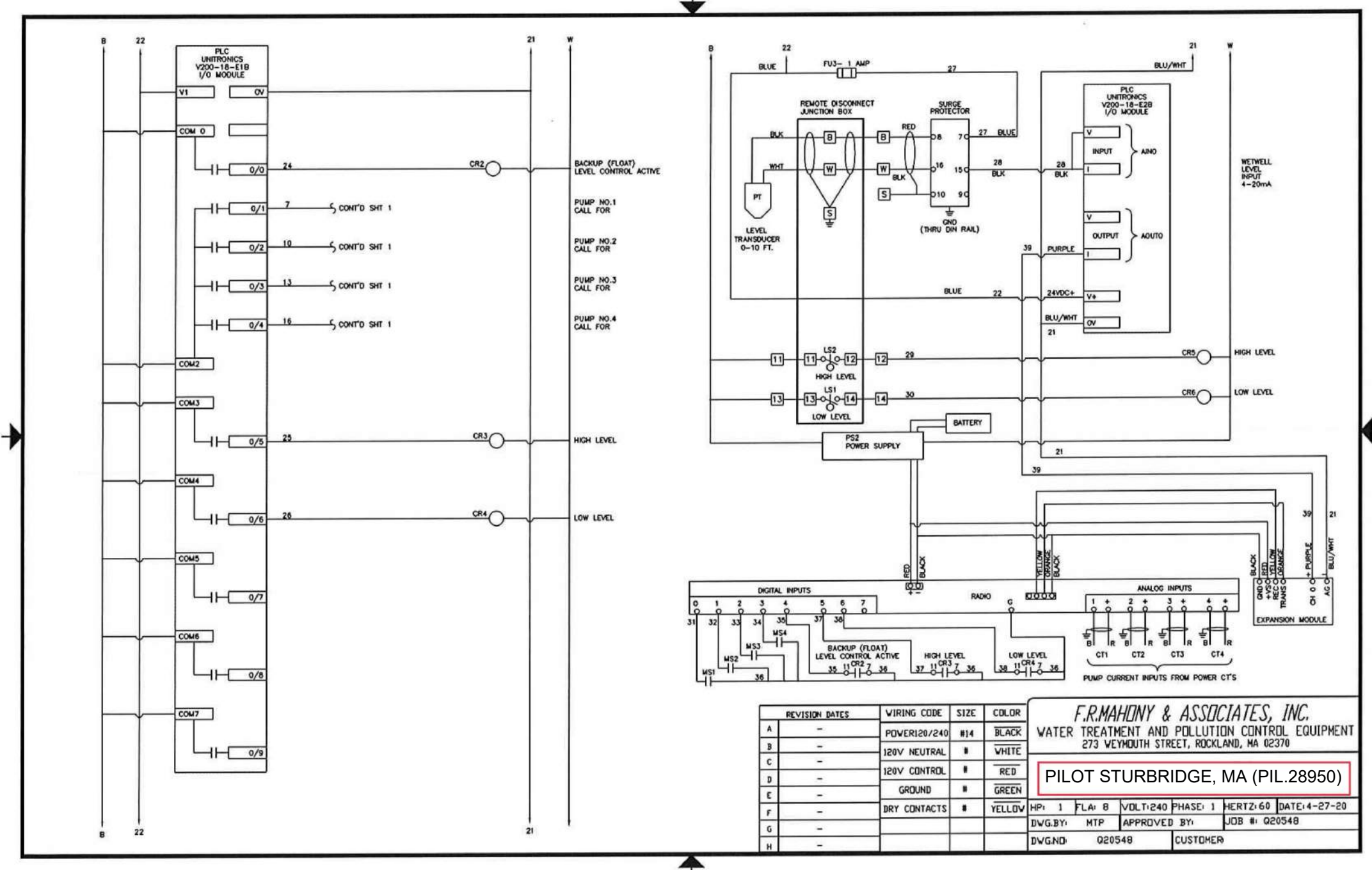
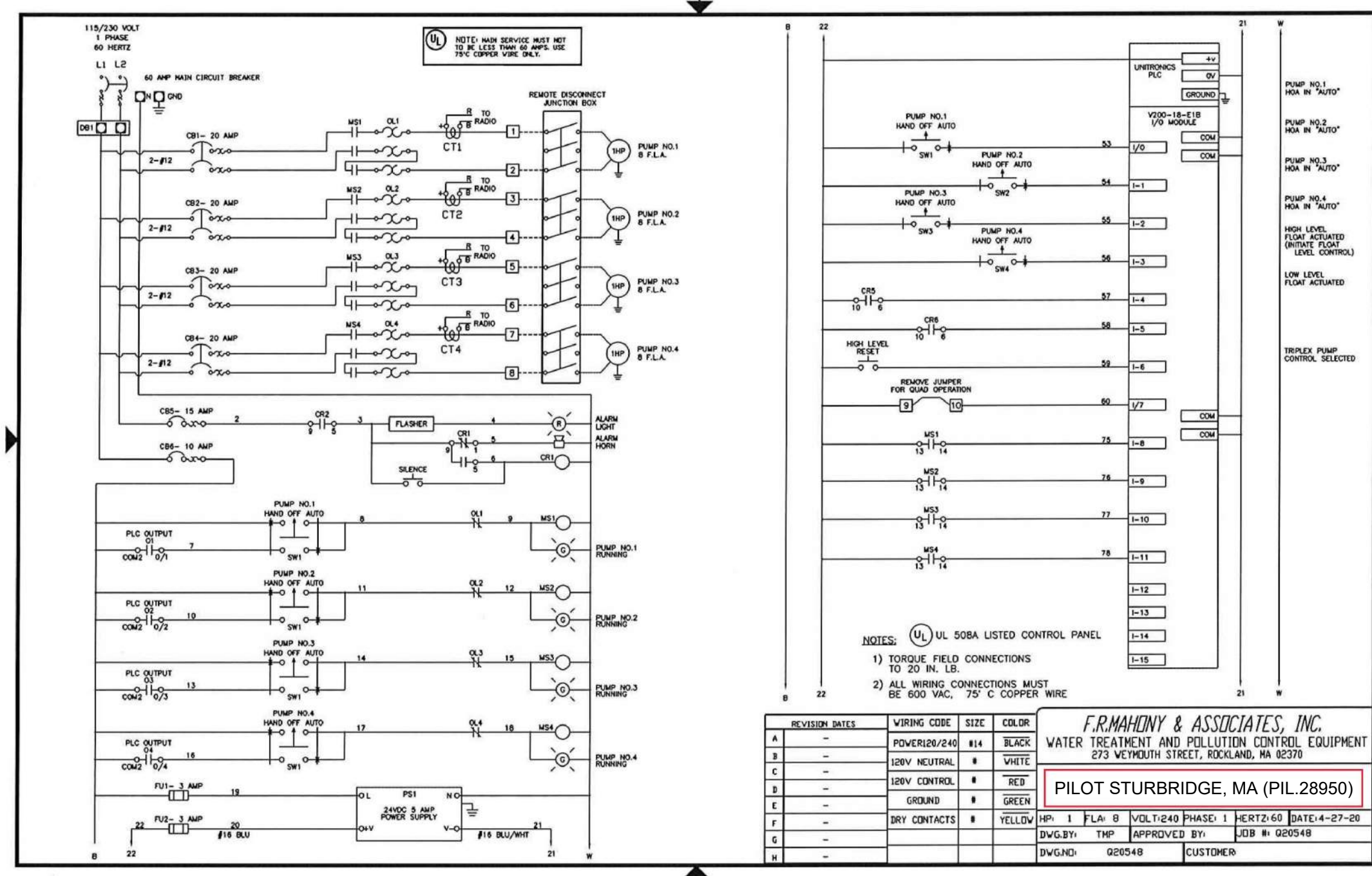
SHEET TITLE
CONSTRUCTION
DETAILS

JOB #:	PIL-28950
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SCALE:	NTS
DRAWN BY:	MP
CHECKED BY:	AR

SHEET NO.
C8.6

NOTE:
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A
B
C
D
E
F
G
H
I



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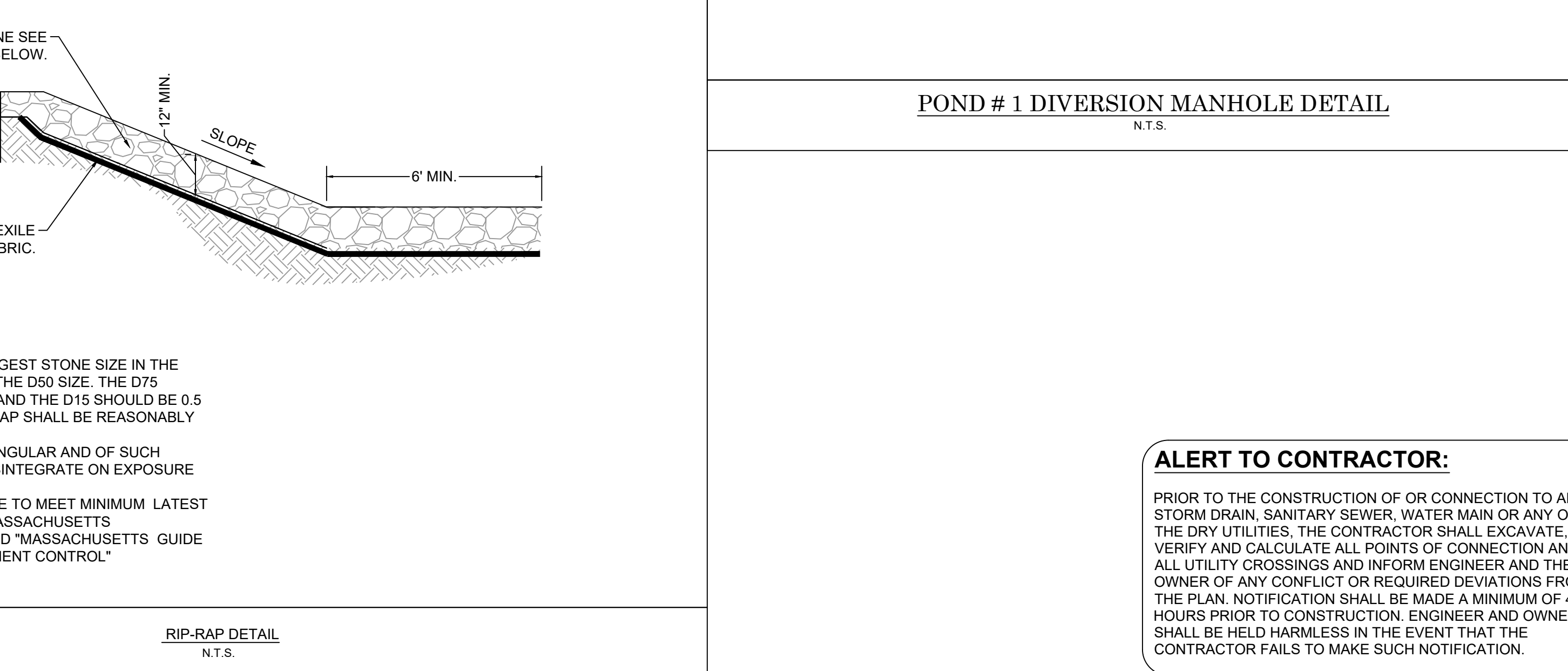
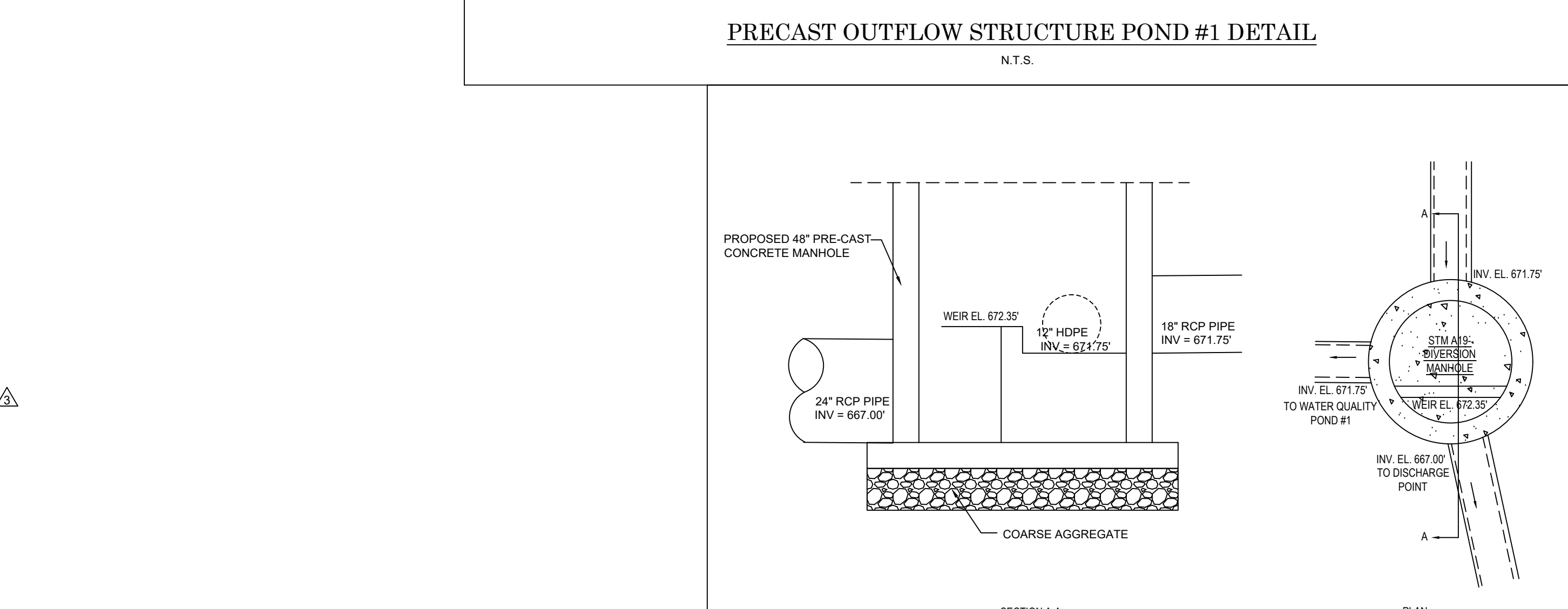
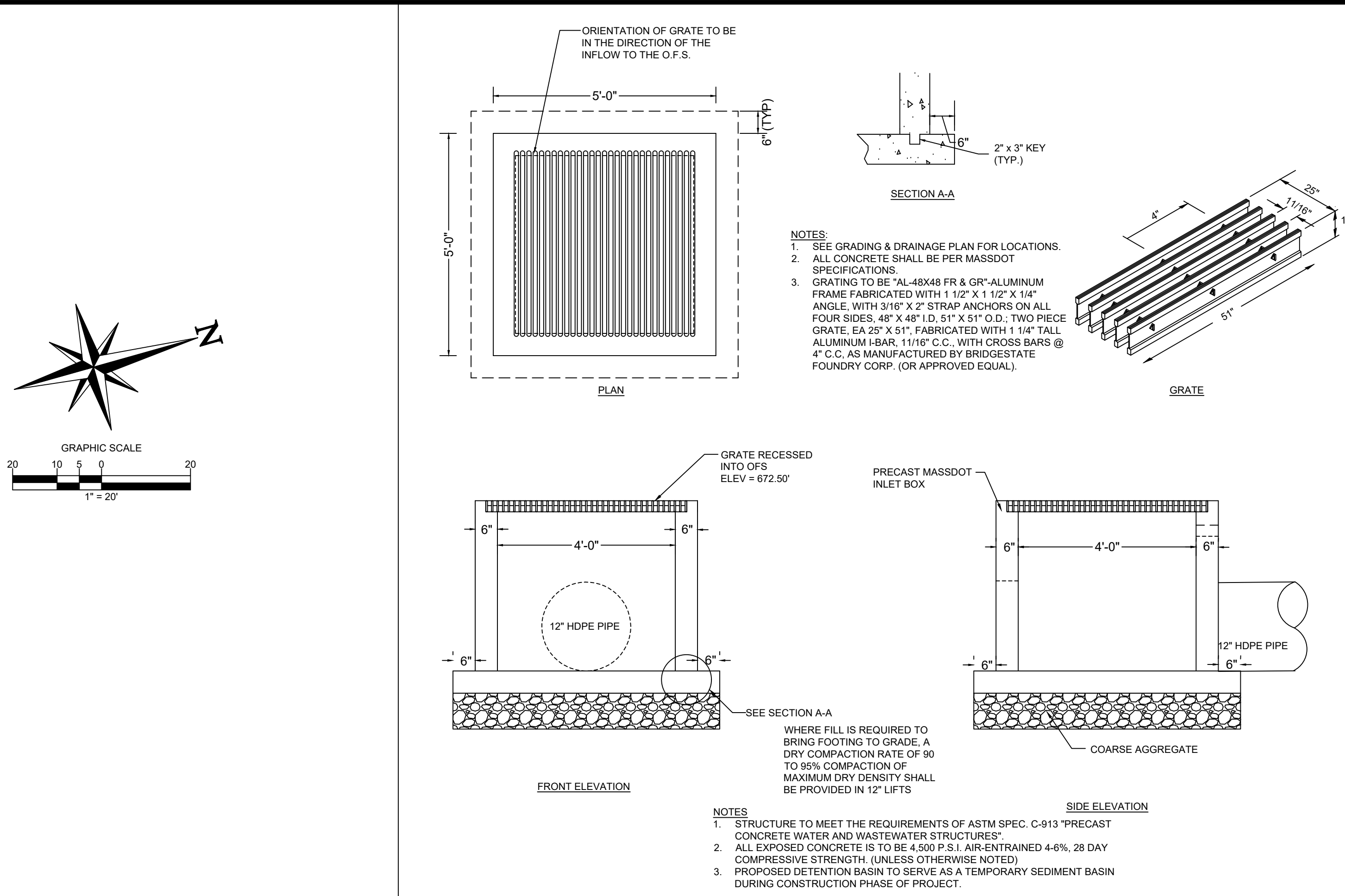
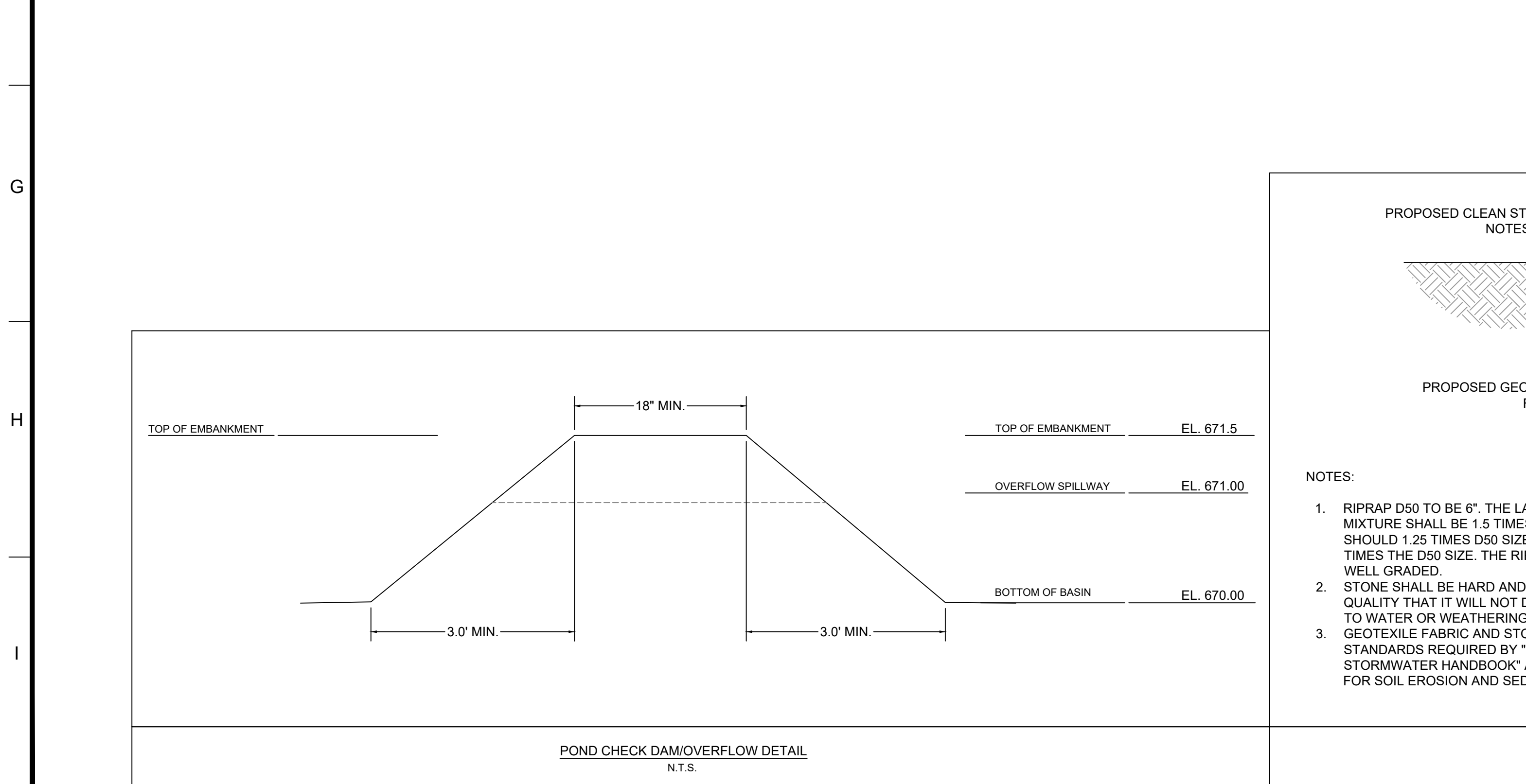
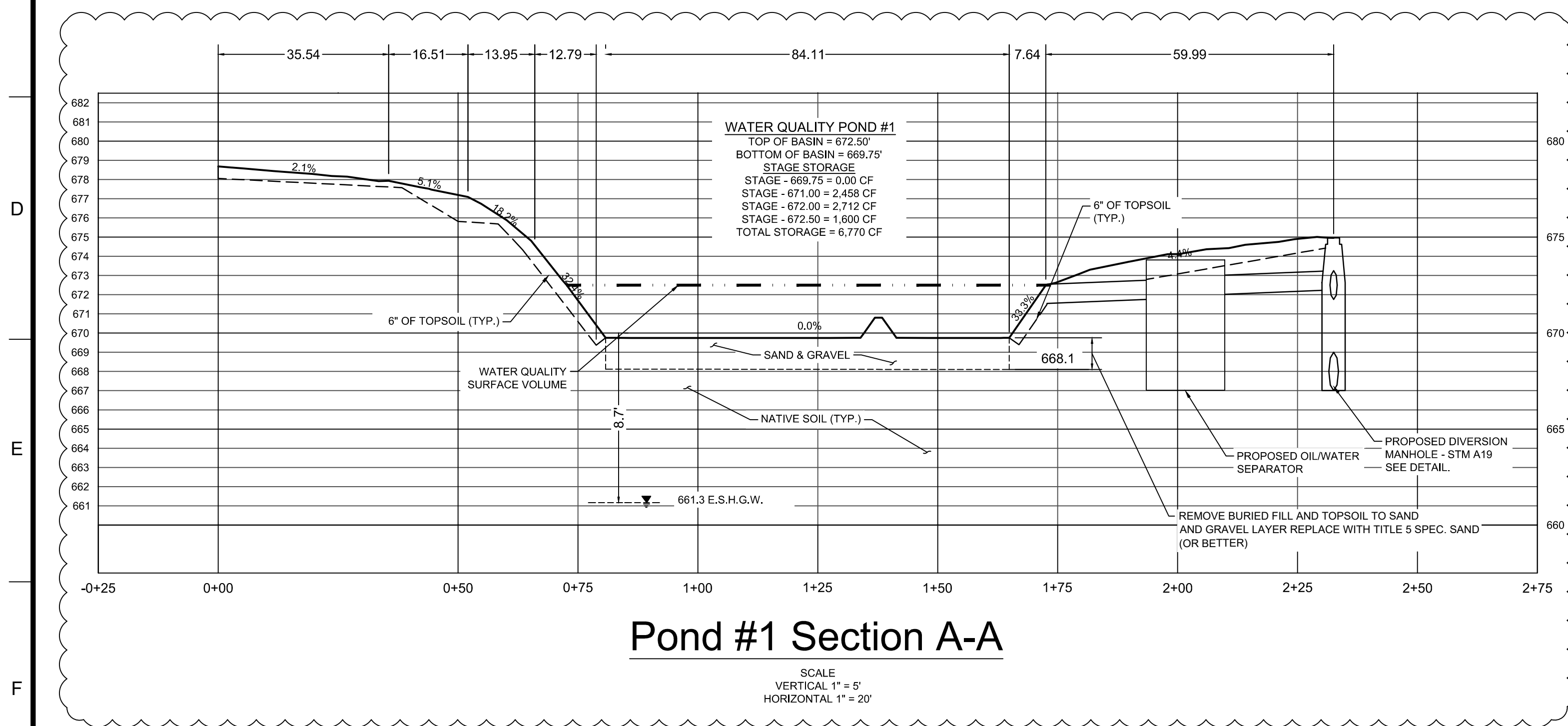
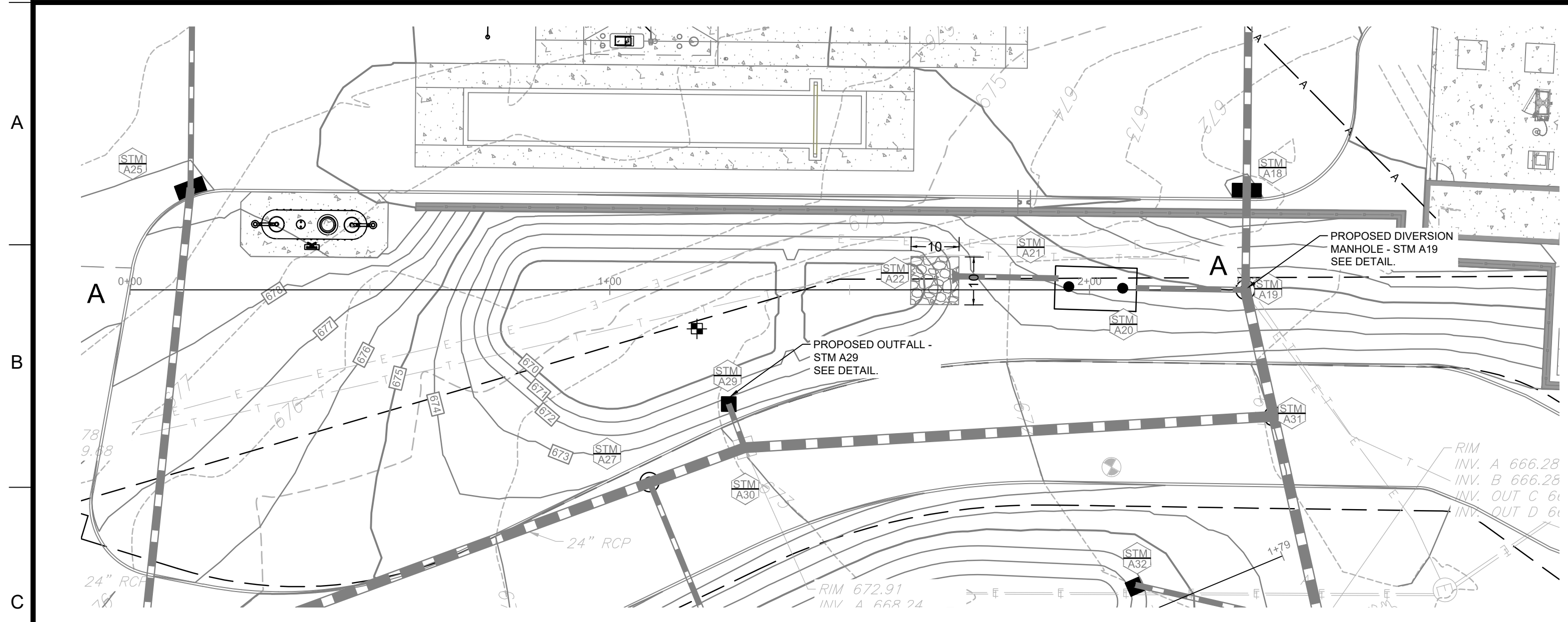
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CLIENT

Pilot TRAVEL CENTERS

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

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

REVISIONS

REV	DATE	COMMENT	BY
-	05/27/20	RESUBMISSION TO TOWN	MP
1	08/12/20	REVISED PER TOWN COMMENTS	MP
2	08/24/20	REVISED PER TOWN COMMENTS	MP
3	07/09/20	REVISED PER TOWN COMMENTS	MP

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

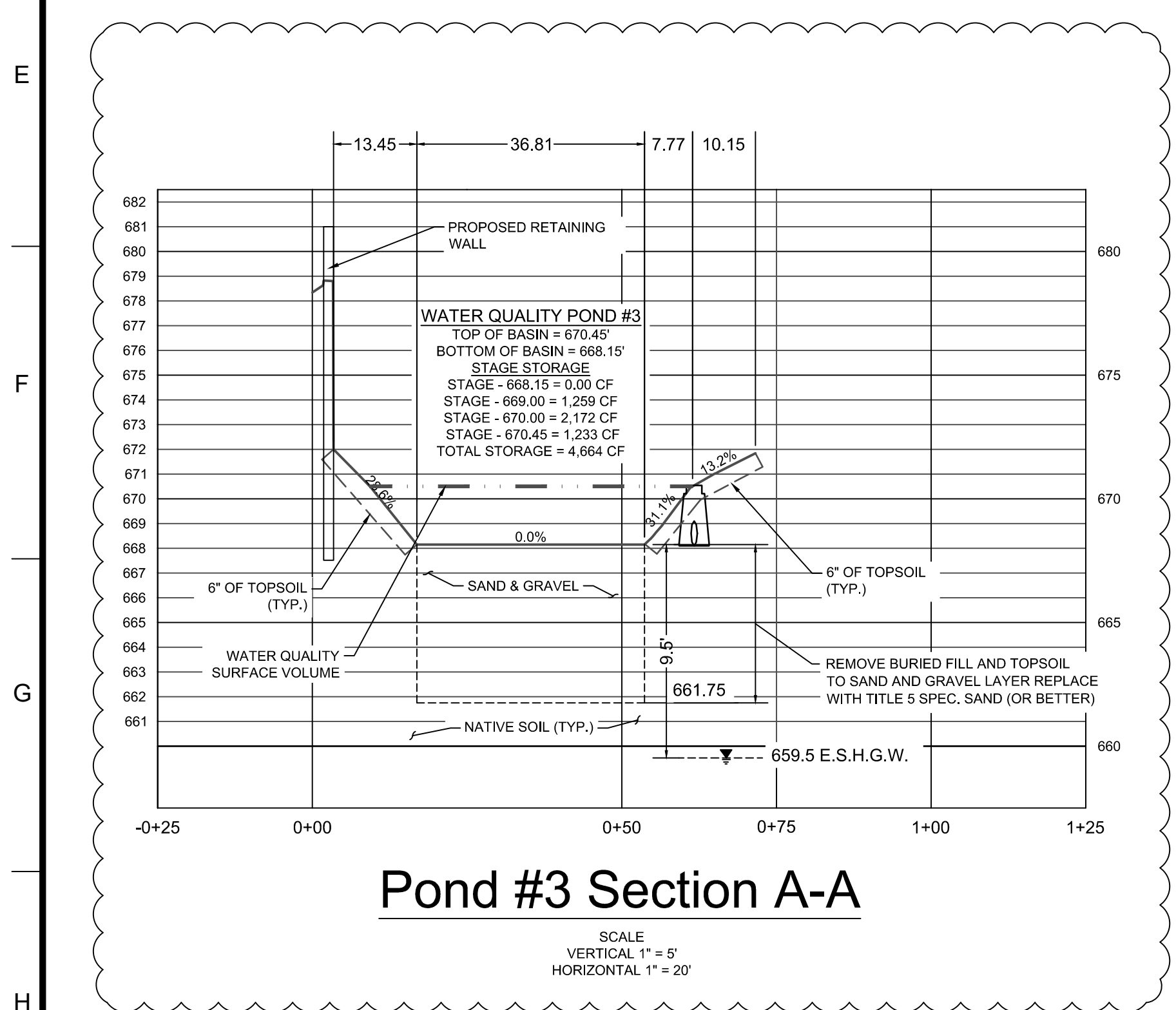
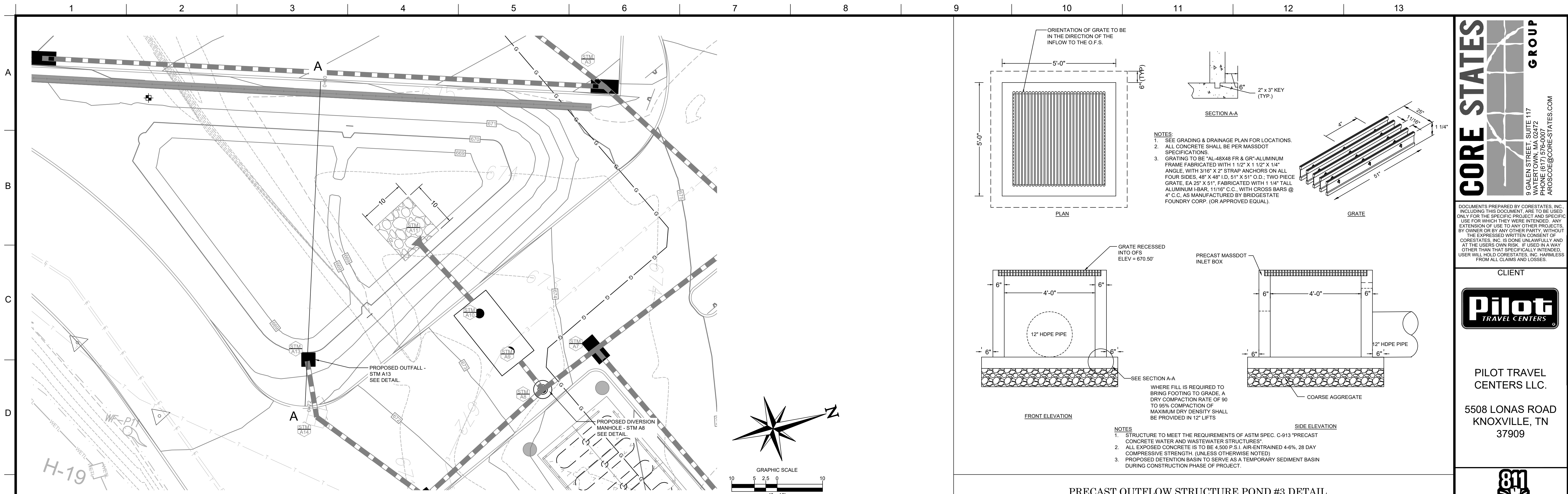
ALAN D. ROSCOE
No. 40163
REGISTERED PROFESSIONAL ENGINEER
ALAN D. ROSCOE, P.E.
LICENSE # 40163

SHEET TITLE
POND
SPECIFICATIONS
& DETAILS

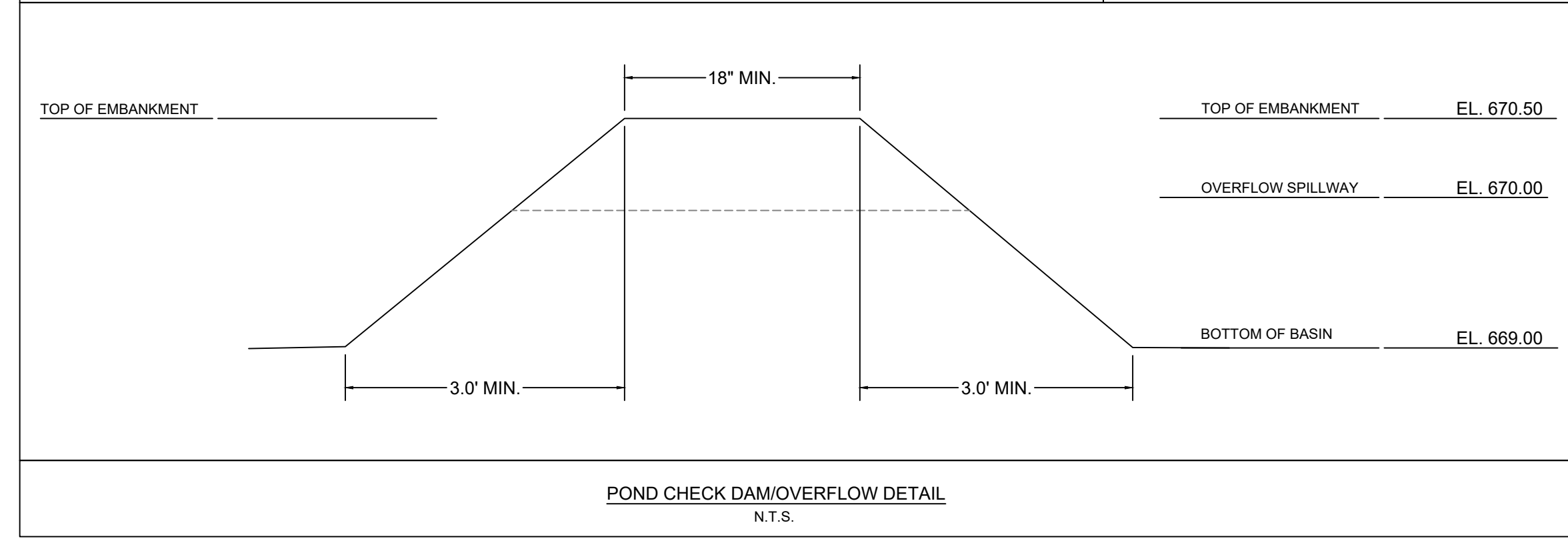
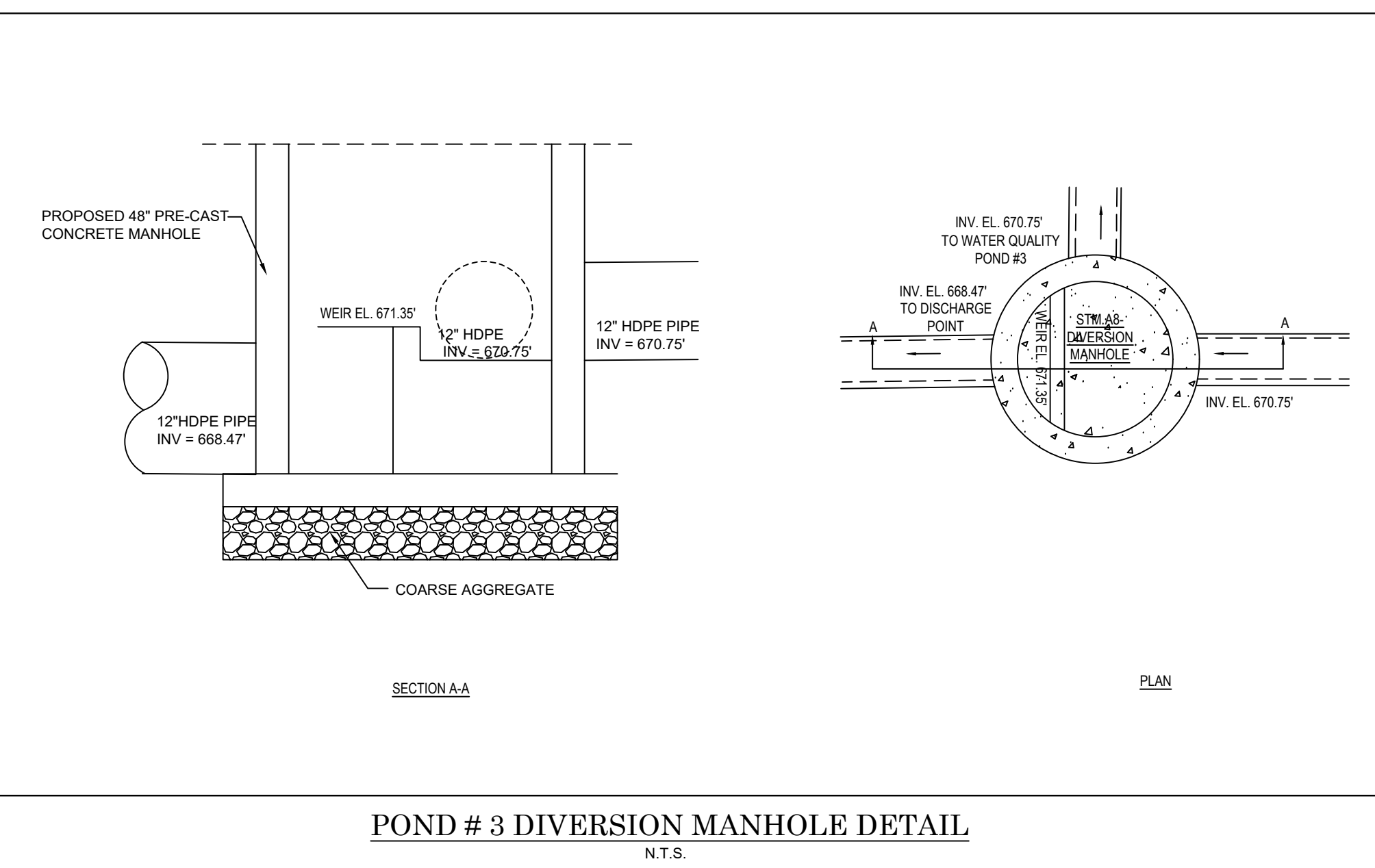
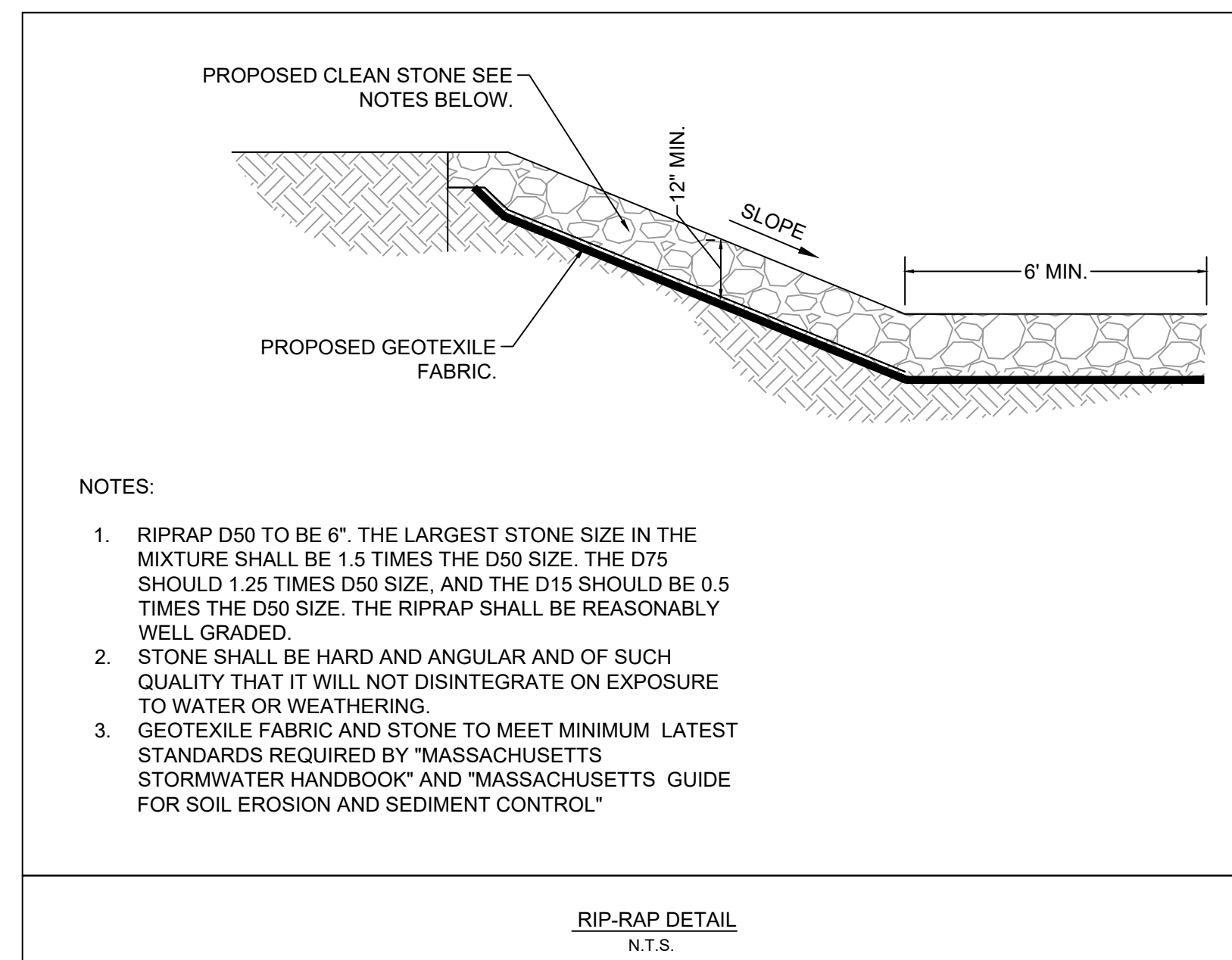
JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR

SHEET NO.
C9.0

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.



Pond #3 Section A-A



PRECAST OUTFLOW STRUCTURE POND #3 DETAIL

CORE STATES GROUP

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

DOCUMENTS PREPARED BY CORE STATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USE FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECTS, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORE STATES, INC. IS DONE UNLAWFULLY AND AT THE USER'S OWN RISK. IT IS USED IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED. USER WILL HOLD CORE STATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.

CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN
37909

811

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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

1/9/2020

SHEET TITLE

POND SPECIFICATIONS & DETAILS

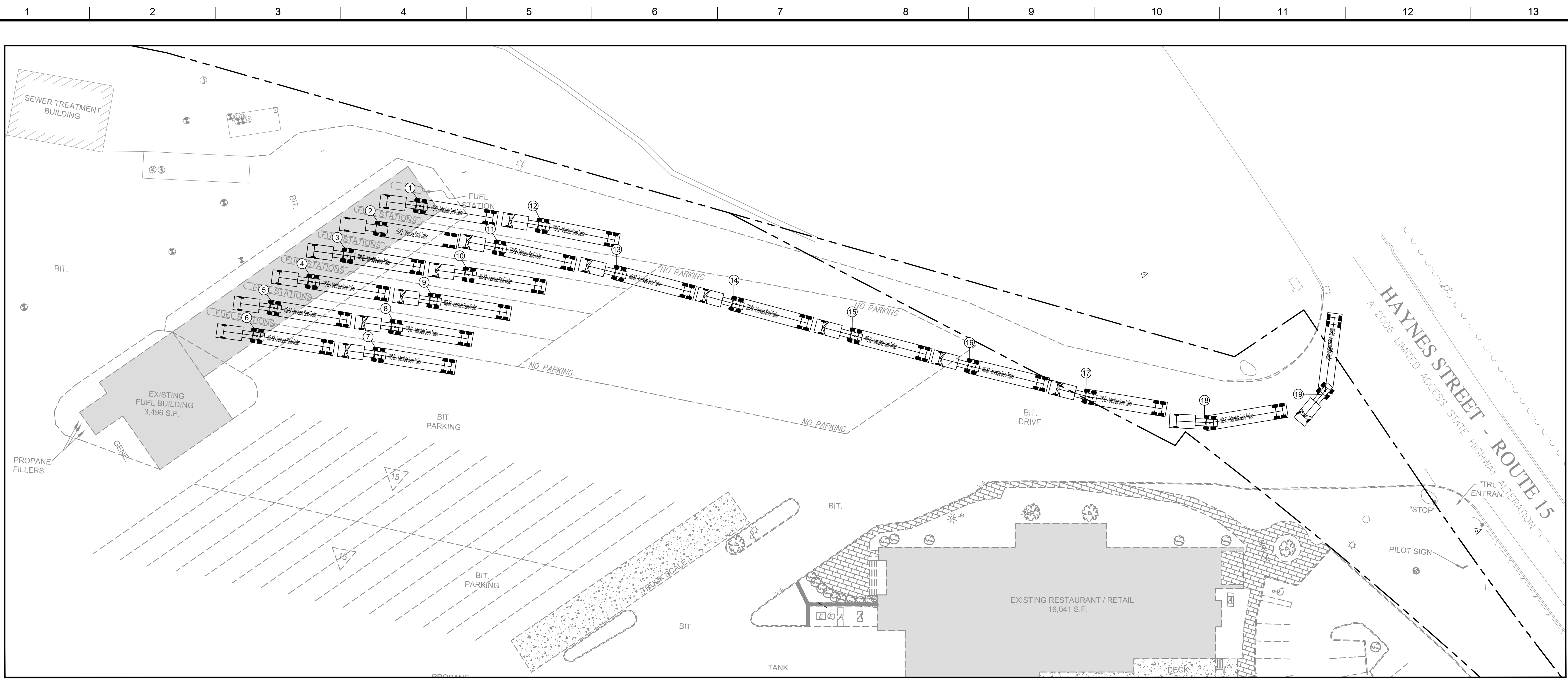
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DATE:	02/10/20
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CHECKED BY:	AR

SHEET NO.

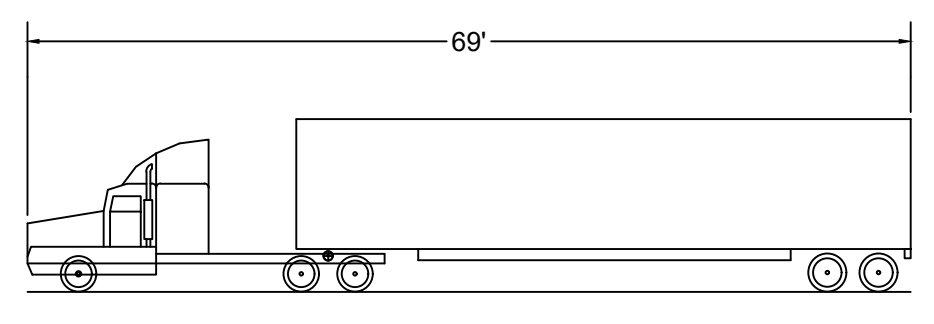
C9.2

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EXISTING TRUCK STACKING PLAN



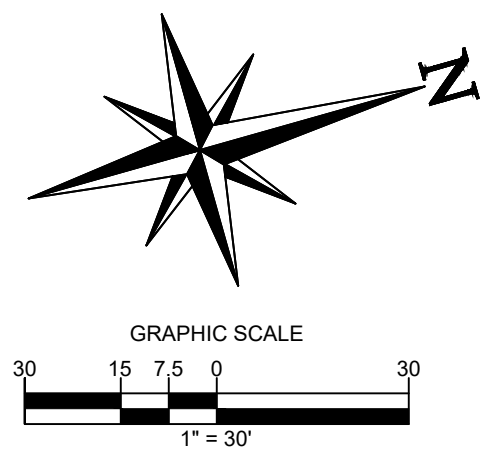
WB-62 - INTERSTATE SEMI-TRAILER

OVERALL LENGTH	69.000FT
OVERALL WIDTH	8.500FT
OVERALL BODY HEIGHT	13.500FT
MIN BODY GROUND	1.334FT
CLEARANCE MAX TRACK WIDTH	8.500FT
LOCK-TO-LOCK TIME	6.00S
MAX STEERING ANGLE (VIRTUAL)	28.40°

NOTE:
 UNDER EXISTING CONDITIONS, THE SITE CONFIGURATION ALLOWS FOR A TOTAL OF NINETEEN (19) STACKING TRUCKS FROM THE TRUCK DISPENSER AREA TO THE DRIVEWAY ENTRANCE ALONG HAYNES STREET.

PLAN LEGEND

- WB-62 INTERSTATE SEMI-TRAILER FLOW
- WB-62 INTERSTATE SEMI-TRAILER STACK NUMBER



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
 WATERTOWN, MA 02472
 PHONE (617) 576-0007
 AROSCOE@CORE-STATES.COM

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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 PLANS ARE BASED ON FIELD MEASUREMENTS TAKEN IN THE FIELD. CORE STATES, INC. DOES NOT WARRANT THE LOCATION OR DEPTH OF EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION OF ANY UTILITIES TO BE INSTALLED.

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DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

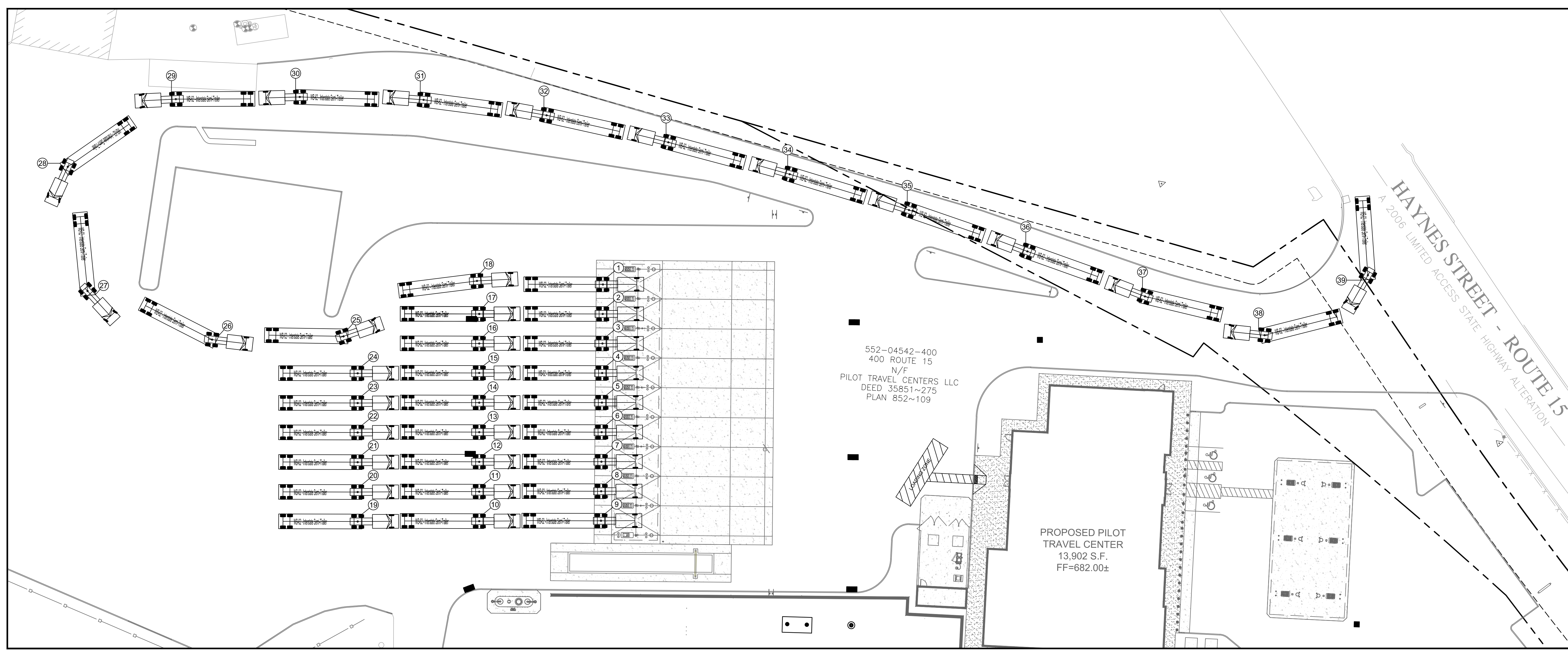
ENGINEER SEAL

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

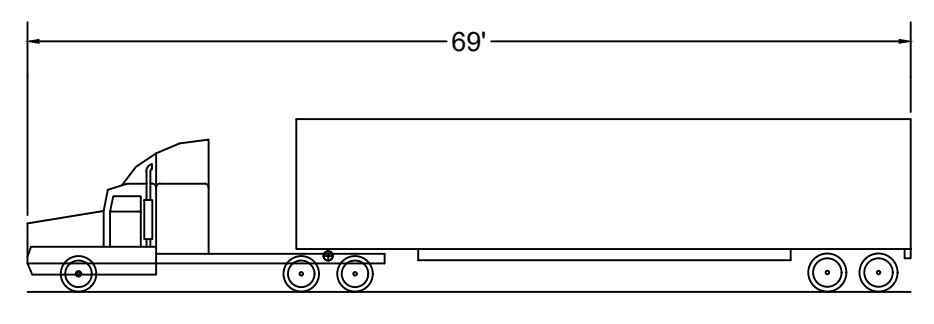
SHEET TITLE
EXISTING TRUCK STACKING PLAN

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

SHEET NO.
C10.0



PROPOSED TRUCK STACKING PLAN



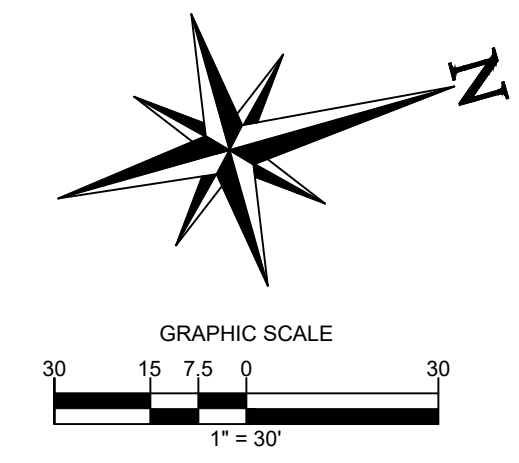
WB-62 - INTERSTATE SEMI-TRAILER

OVERALL LENGTH	69.000FT
OVERALL WIDTH	8.500FT
OVERALL BODY HEIGHT	13.500FT
MIN BODY GROUND	1.334FT
CLEARANCE MAX TRACK WIDTH	8.500FT
LOCK-TO-LOCK TIME	6.00S
MAX STEERING ANGLE (VIRTUAL)	28.40°

NOTE:
UNDER PROPOSED CONDITIONS, THE SITE CONFIGURATION ALLOWS FOR A TOTAL OF THIRTY-NINE (39) STACKING TRUCKS FROM THE TRUCK DISPENSER AREA TO THE DRIVEWAY ENTRANCE ALONG HAYNES STREET.

PLAN LEGEND

- WB-62 INTERSTATE SEMI-TRAILER FLOW
- WB-62 INTERSTATE SEMI-TRAILER STACK NUMBER



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

811
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DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

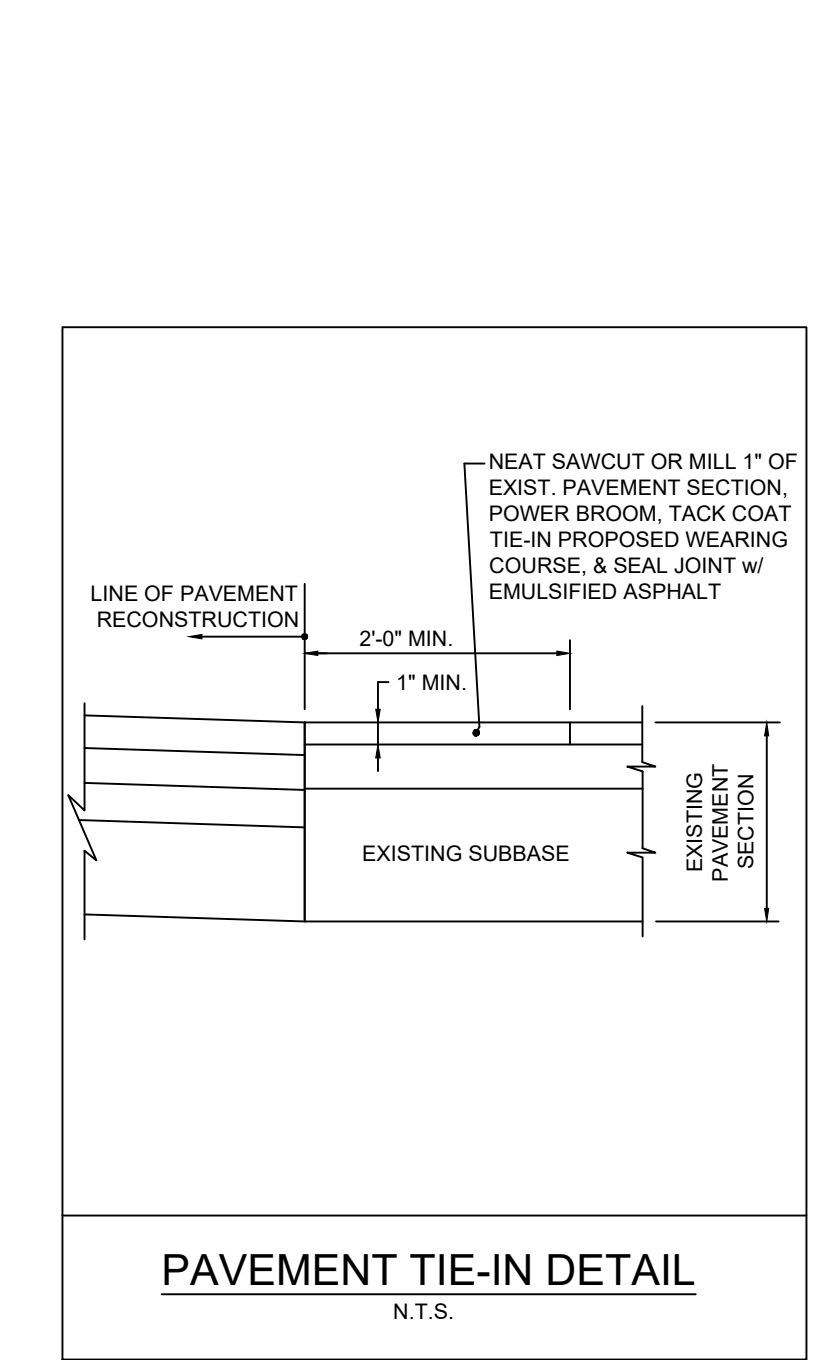
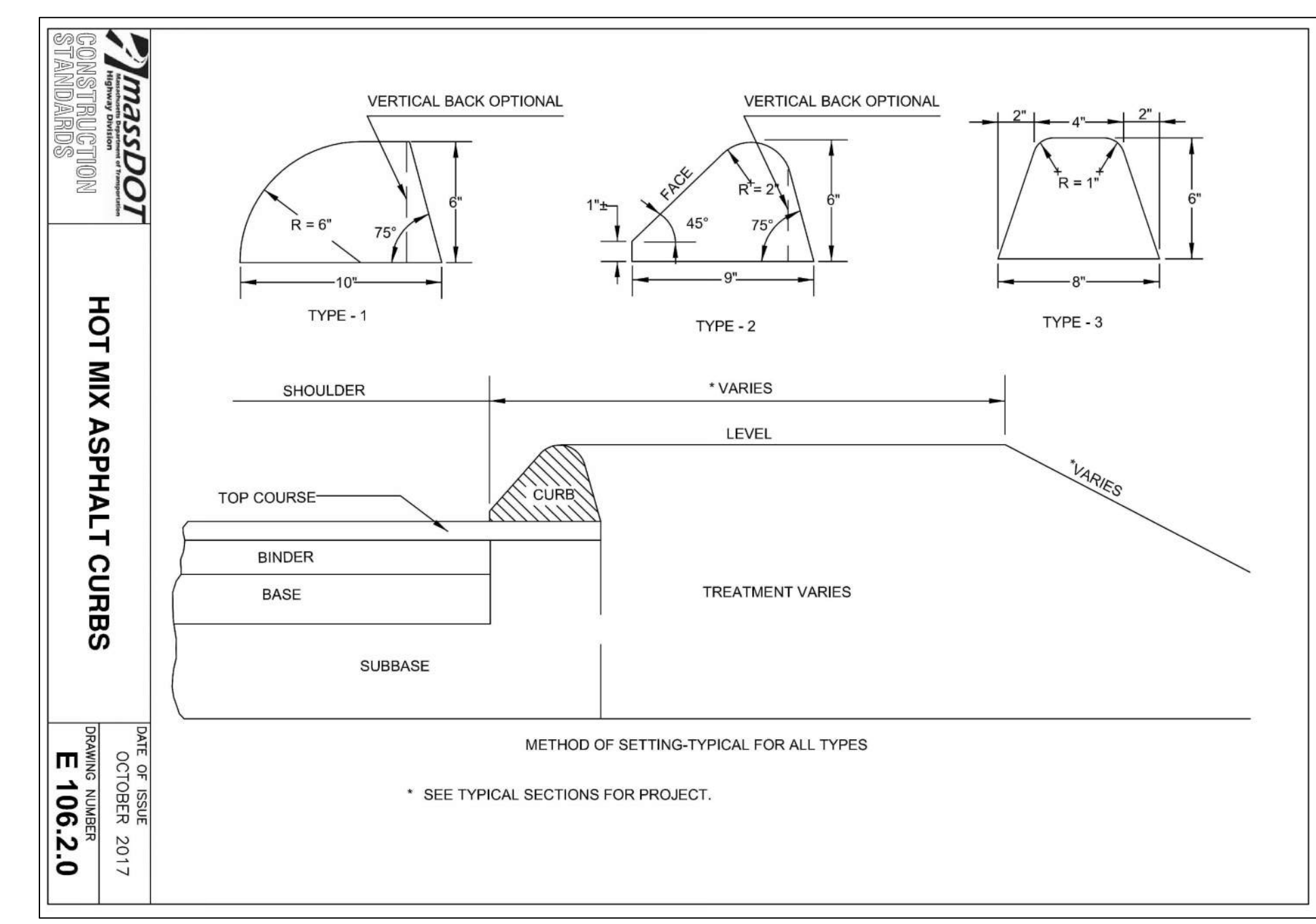
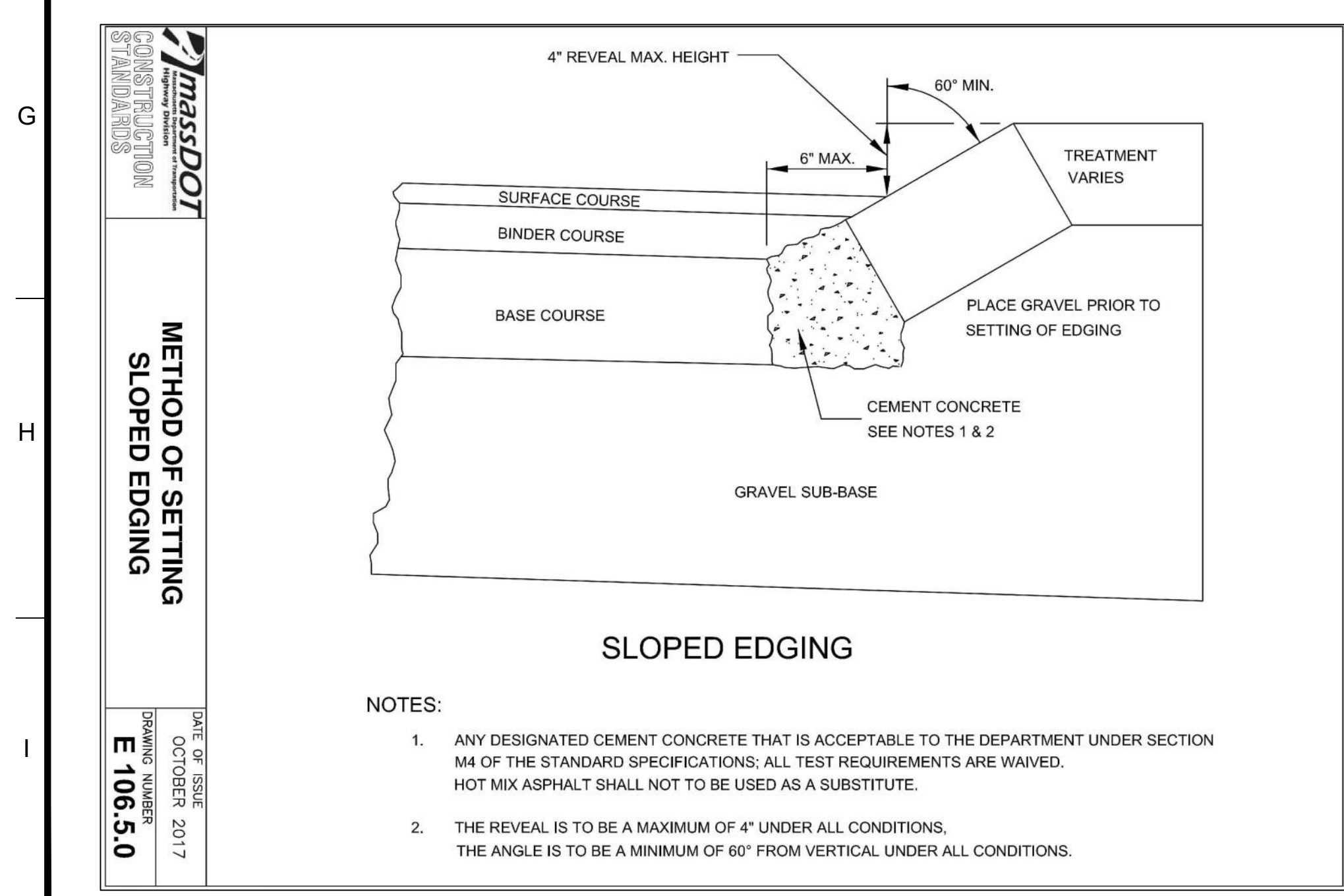
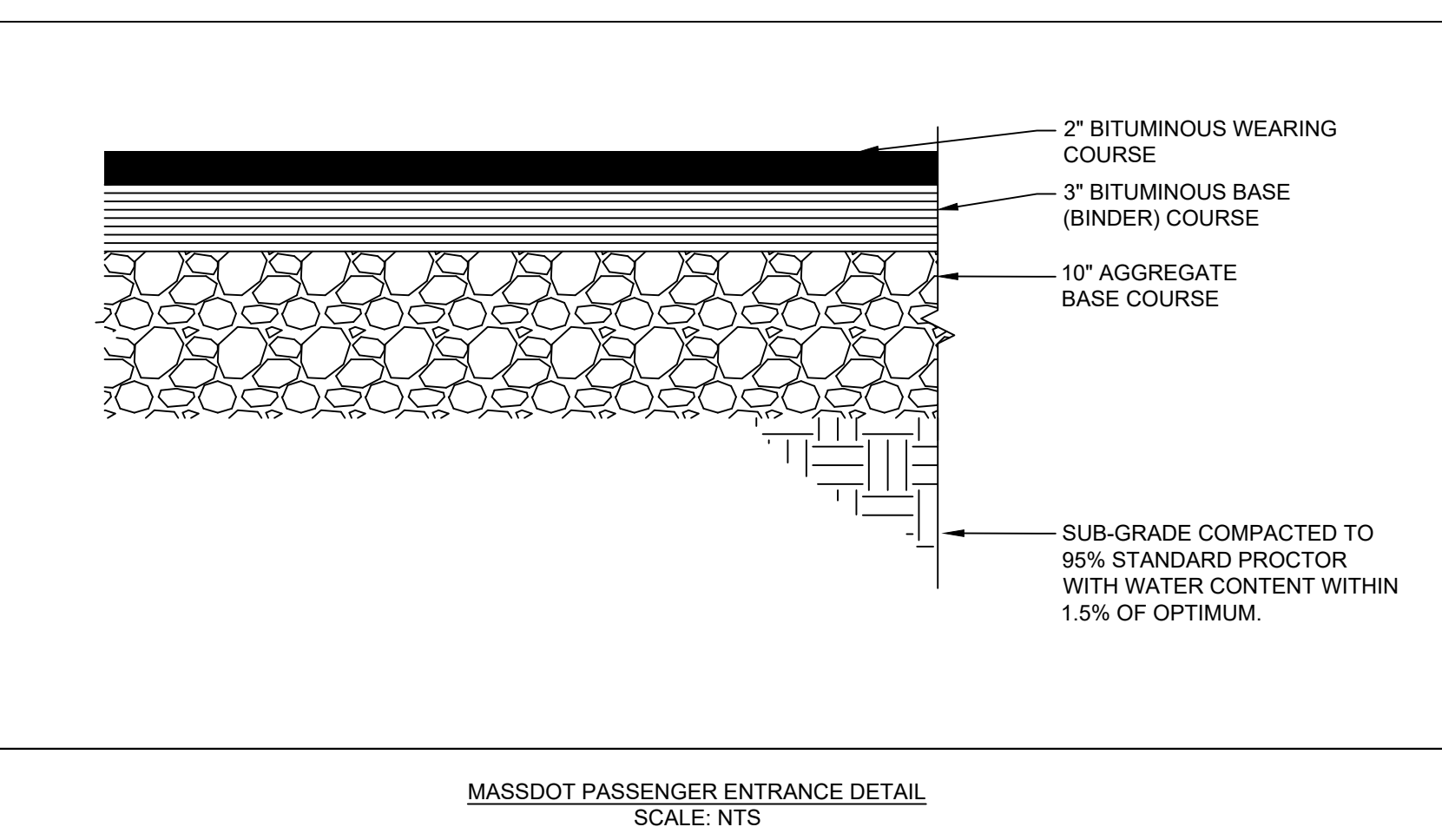
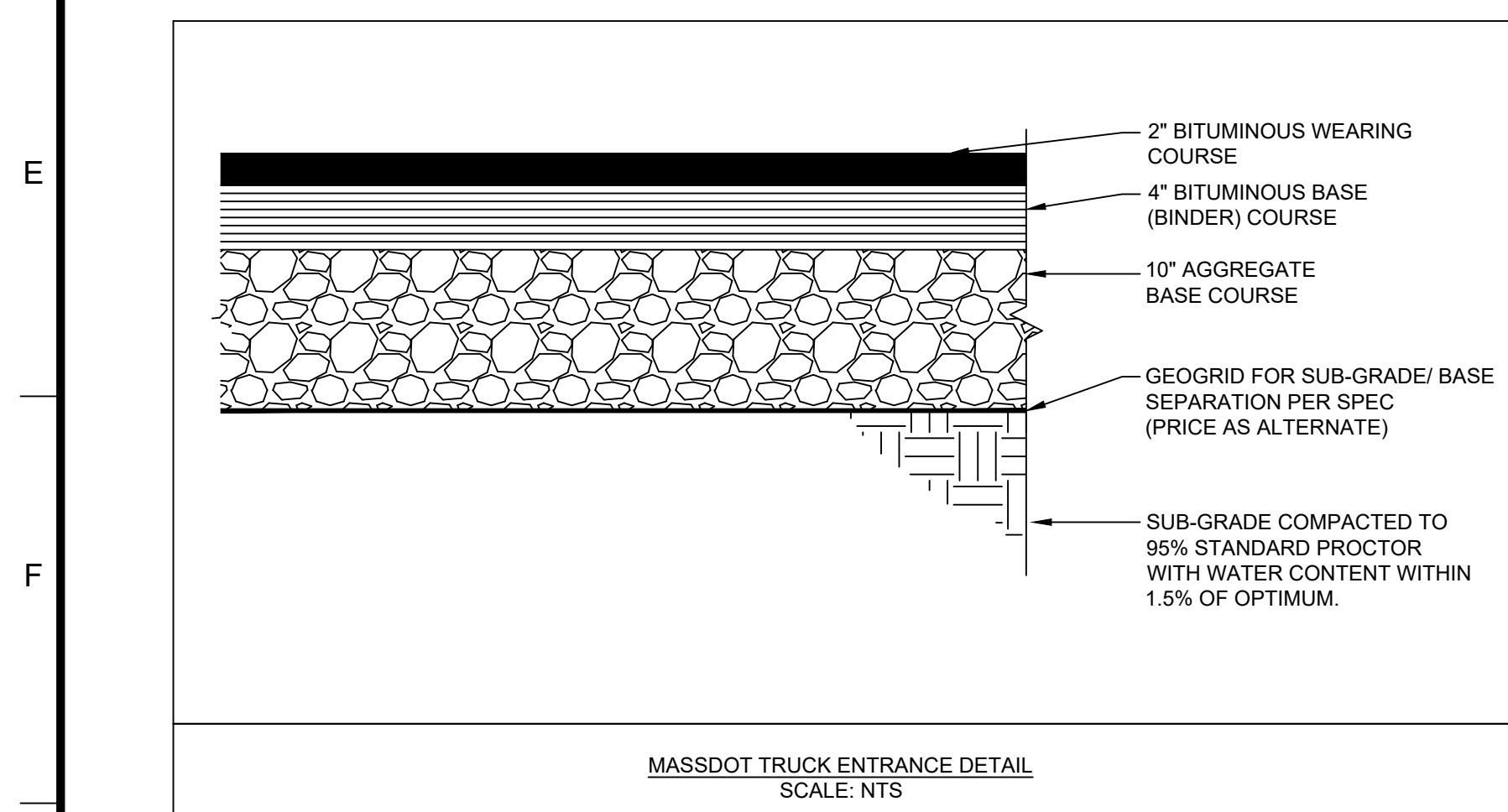
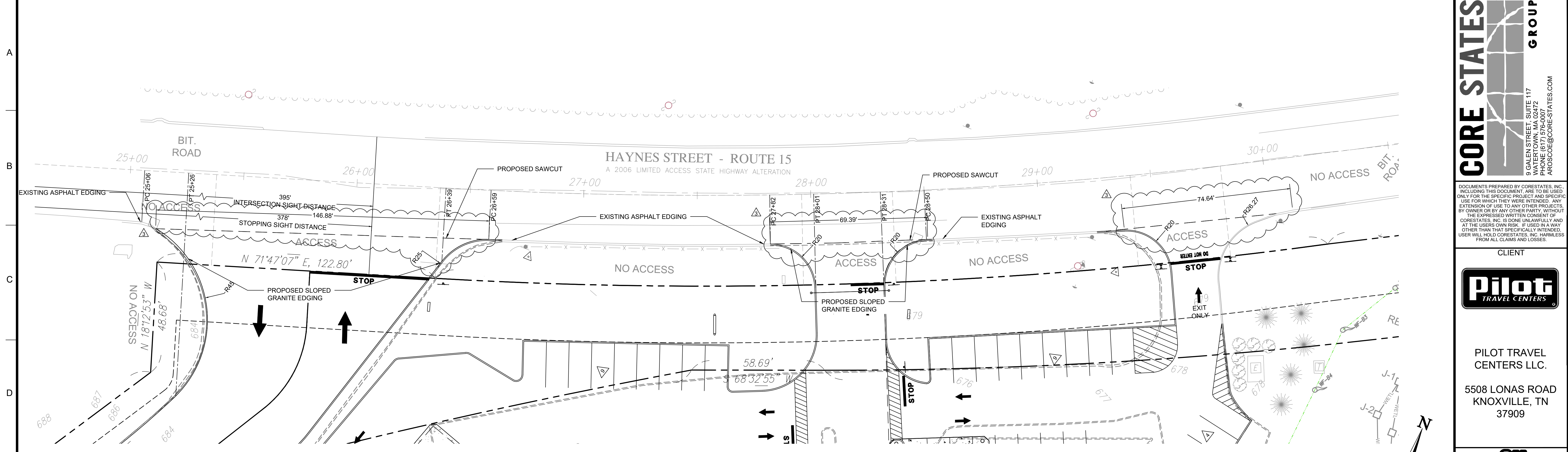
ENGINEER SEAL

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

SHEET TITLE
PROPOSED TRUCK
STACKING PLAN

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

SHEET NO.
C10.1



ALERT TO CONTRACTOR:

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9 GALEN STREET, SUITE 117
WATER TOWN, MA 02472
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CLIENT

Pilot TRAVEL CENTERS

PILOT TRAVEL CENTERS LLC.

5508 LONAS ROAD
KNOXVILLE, TN 37909

811

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DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

ENGINEER SEAL

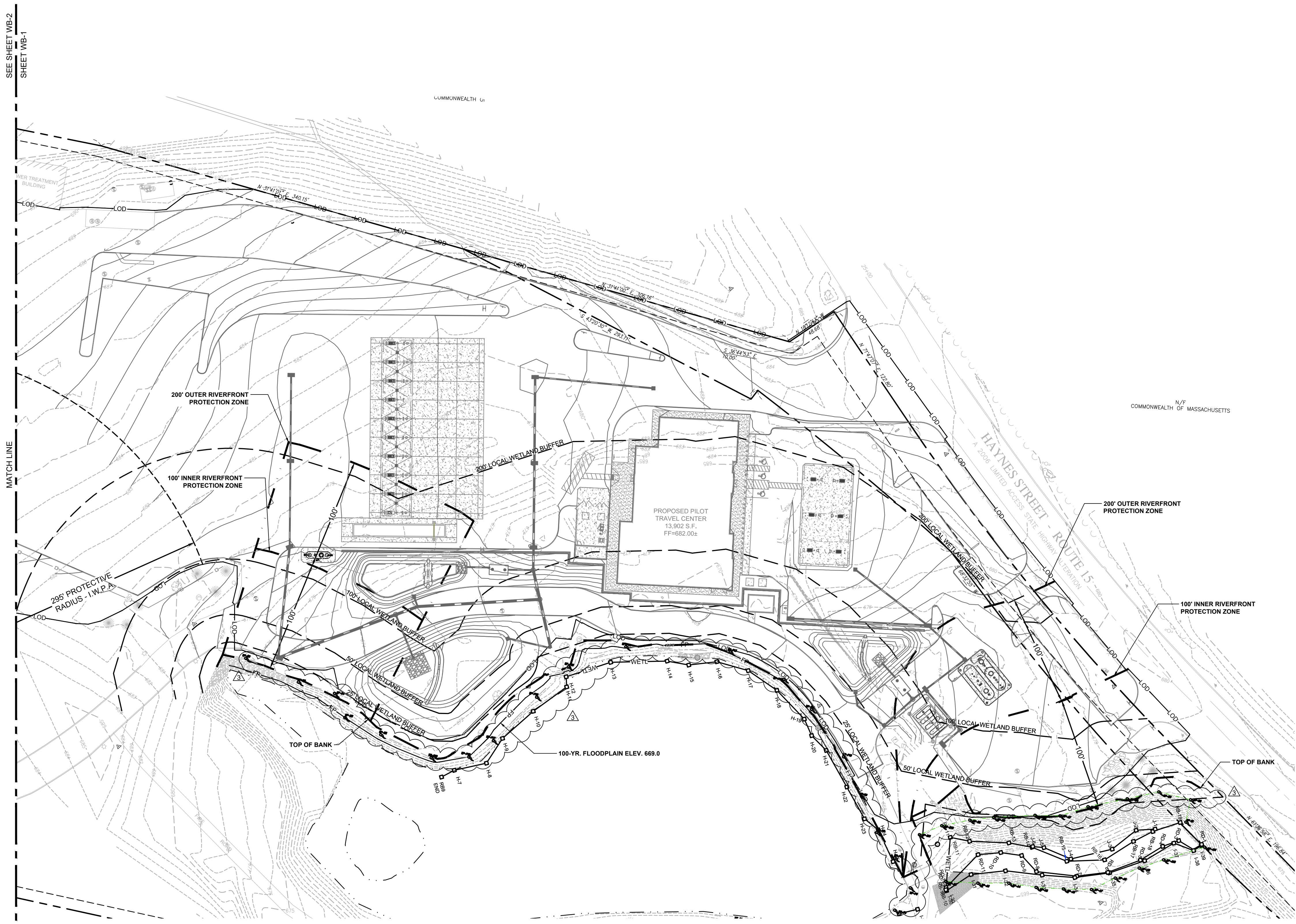
ALAN D. ROSCOE, P.E.
LICENSE # 40163

10/20/20

SHEET TITLE
MASSDOT SITE PLAN

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

SHEET NO.
C11.0



SEE SHEET WB-2
SHEET WB-1

MATCH LINE

SEE SHEET WB-2
SHEET WB-1

WETLAND BUFFER PLAN LEGEND

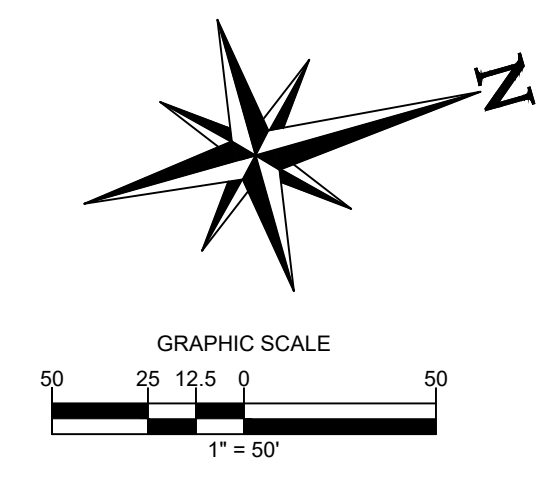
- LOD — LOD — LIMITS OF DISTURBANCE
- FP — FP — 100 YR. FLOODPLAIN
- — — — — TOP OF BANK
- - - - - 100' & 200' RIVERFRONT PROTECTION ZONE
- WETL — WETL — WETL — WETLAND BOUNDARY
- - - - - 25', 50', 100' & 200' WETLAND BUFFER
- - - - - 295' PROTECTIVE RADIUS - I.W.P.A.

AREAS SUMMARY (SF / AC) FOR 100' INNER RIVERFRONT PROTECTION ZONE

TOTAL RIVERFRONT AREA	99,477 SF / 2.284 AC
TOTAL DISTURBED AREA	43,450 SF / 0.997 AC
IMPERVIOUS AREA AT COMPLETION	25,802 SF / 0.592 AC
PERVIOUS AREA AT COMPLETION	17,648 SF / 0.405 AC
AREA OF NEW ALTERATION	0 SF / 0 AC

AREAS SUMMARY (SF / AC) FOR 200' OUTER RIVERFRONT PROTECTION ZONE

TOTAL RIVERFRONT AREA	110,763 SF / 2.543 AC
TOTAL DISTURBED AREA	89,990 SF / 2.066 AC
IMPERVIOUS AREA AT COMPLETION	79,034 SF / 1.814 AC
PERVIOUS AREA AT COMPLETION	10,956 SF / 0.252 AC
AREA OF NEW ALTERATION	0 SF / 0 AC



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REVISIONS

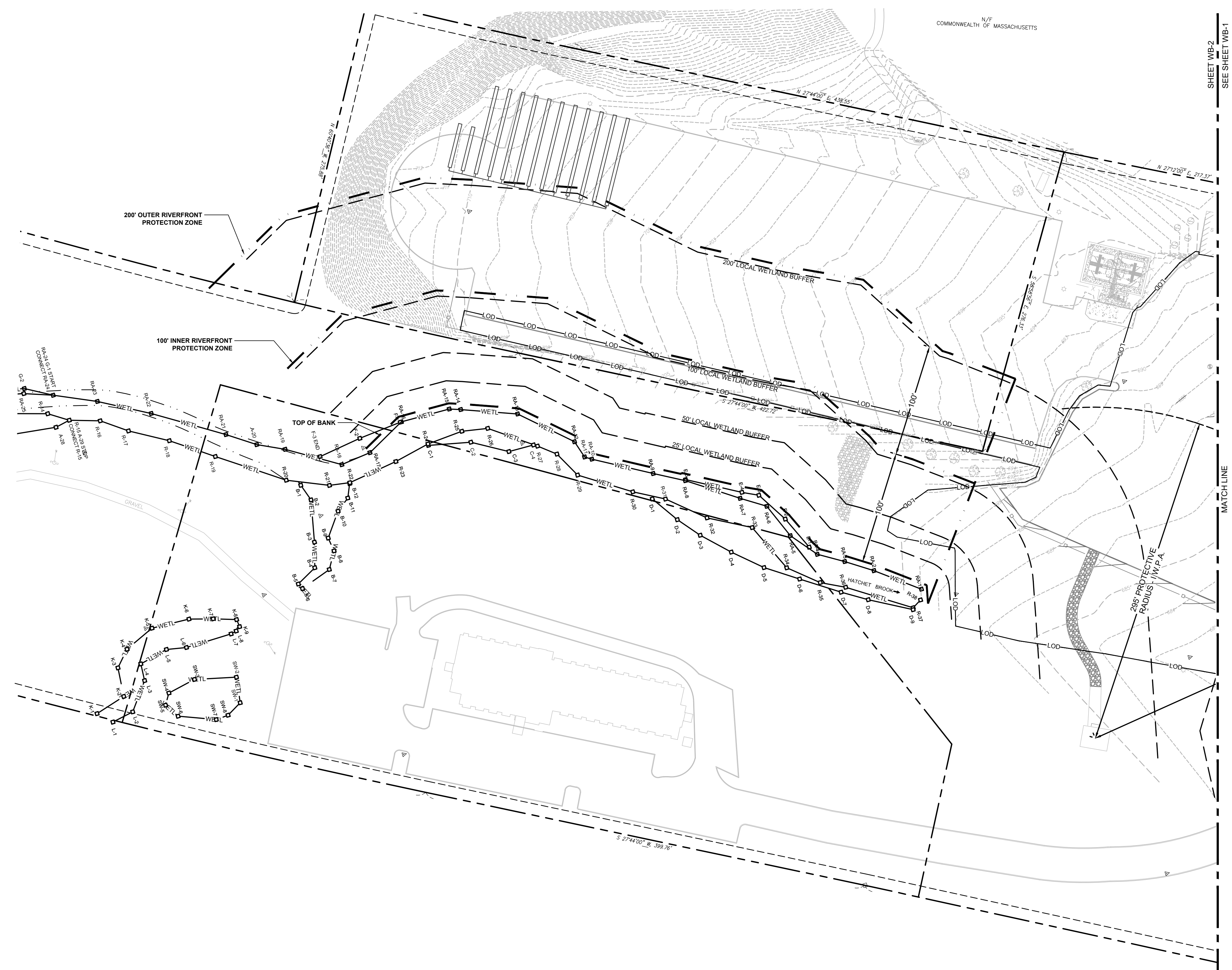
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DOCUMENT
SITE PLAN
APPROVAL

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
WETLAND
BUFFER PLAN
JOB #: PIL 28950
DATE: 02/10/20
SCALE: AS NOTED
DRAWN BY: MP
CHECKED BY: AR
SHEET NO.
WB-1



WETLAND BUFFER PLAN LEGEND

— LOD — LOD —	LIMITS OF DISTURBANCE
— FP — FP —	100 YR. FLOODPLAIN
— — — —	TOP OF BANK
- - - - -	100' & 200' RIVERFRONT PROTECTION ZONE
— WETL — WETL —	WETLAND BOUNDARY
- - - - -	25', 50', 100' & 200' WETLAND BUFFER
- - - - -	295' PROTECTIVE RADIUS - I.W.P.A.

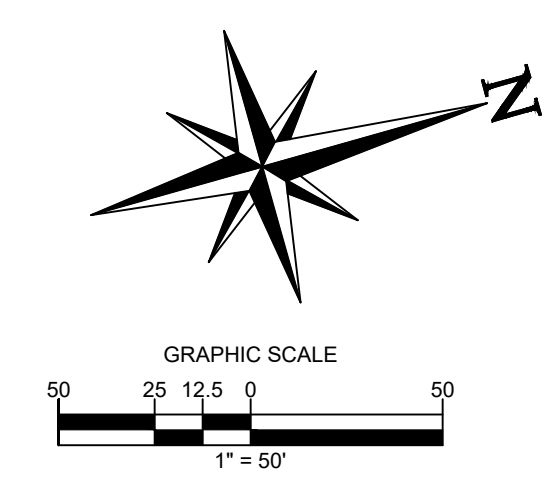
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 PILOT TRAVEL CENTERS LLC.
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 KNOXVILLE, TN 37909

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REVISIONS

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DOCUMENT
SITE PLAN APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

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

SHEET TITLE
WETLAND BUFFER PLAN
 JOB #: PIL 28950
 DATE: 02/10/20
 SCALE: AS NOTED
 DRAWN BY: MP
 CHECKED BY: AR

SHEET NO.
WB-2

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 IN GEOTECHNICAL REPORT #556 BY COSTA CONSULTING ENGINEERS. THE RETAINING WALLS HAVE BEEN DESIGNED USING THE BEARING PRESSURE OF 6500PSF, PASSIVE SOIL PRESSURE OF 130PCF, AND ACTIVE SOIL PRESSURE OF 36.4PSF AS OUTLINED IN THE GEOTECHNICAL RECOMMENDATIONS.
- 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

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



THE CONTRACTOR IS SPECIFICALLY ADVISED THAT THE LOCATION AND/OR DEPTH OF EXISTING UTILITIES SHOWN ON THESE PLANS IS BASED ON DESIGNER'S RECORD DRAWINGS AND FIELD SURVEY DATA. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO ANY EXCAVATION OR OTHER WORK THAT MAY AFFECT THE UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR'S WORK.

REV	DATE	COMMENT	BY

DOCUMENT
SITE PLAN
APPROVAL

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA
01566

ENGINEER SEAL

SHEET TITLE
STRUCTURAL
NOTES

JOB #: PIL_28950
DATE: 02/10/20
SCALE:
DRAWN BY: ERS
CHECKED BY: DAB


SHEET NO.
S0.0

CORE STATES GROUP
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 KNOXVILLE, TN 37909


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REV	DATE	COMMENT	BY

DOCUMENT
SITE PLAN APPROVAL

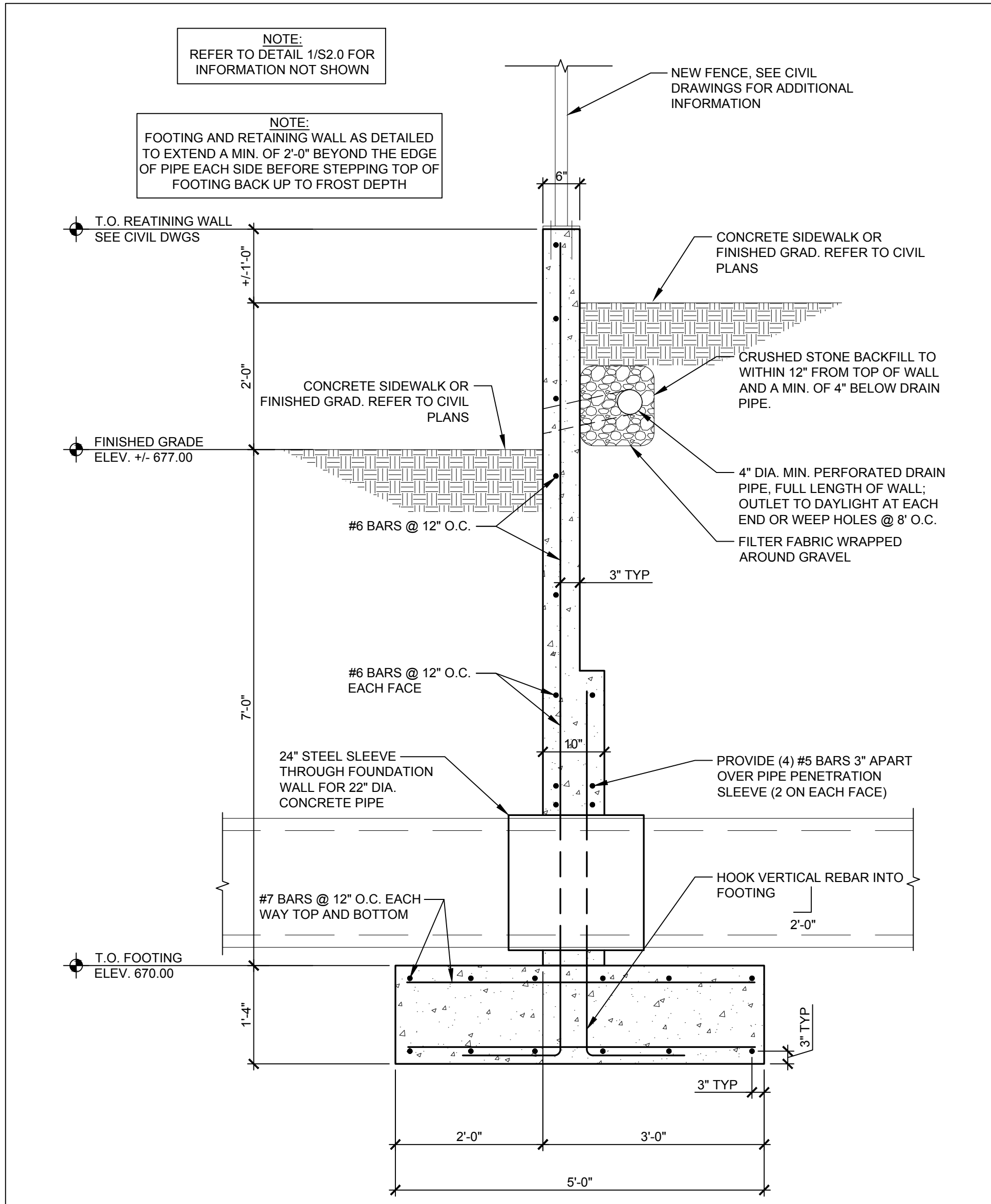
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

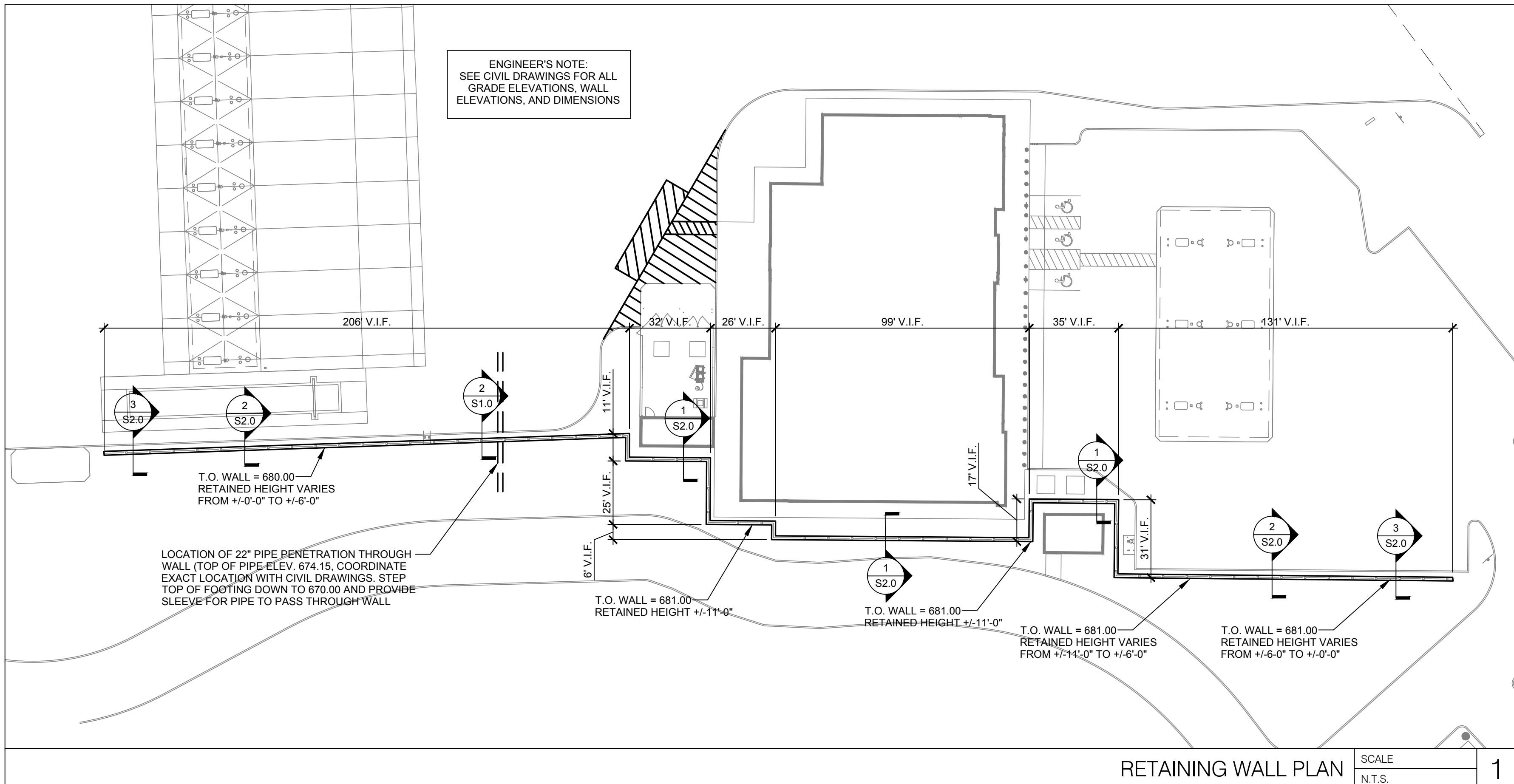
SHEET TITLE
RETAINING WALL KEY PLAN

JOB #: P1L 28950
 DATE: 02/10/20
 SCALE:
 DRAWN BY: ERS
 CHECKED BY: DAB

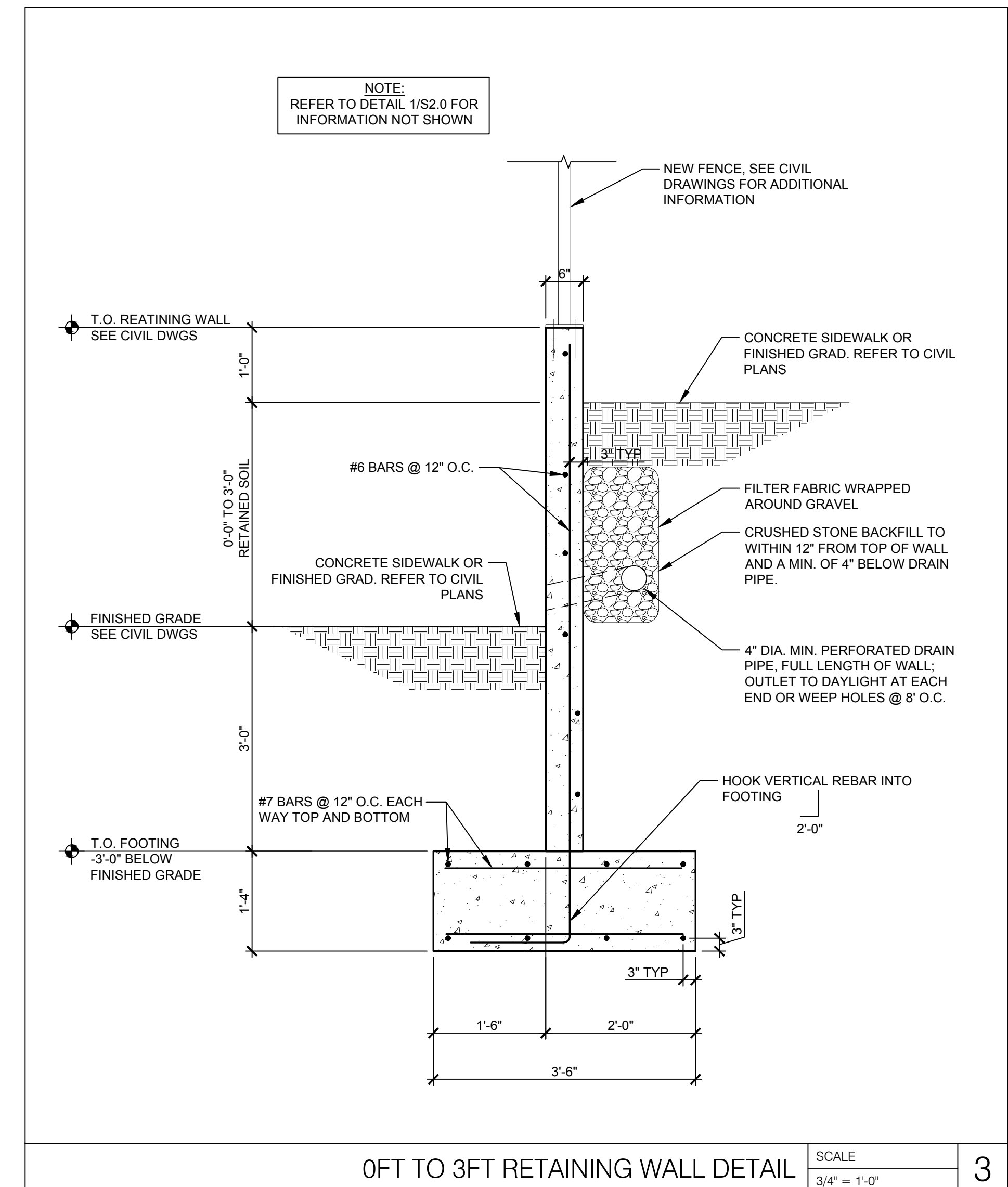
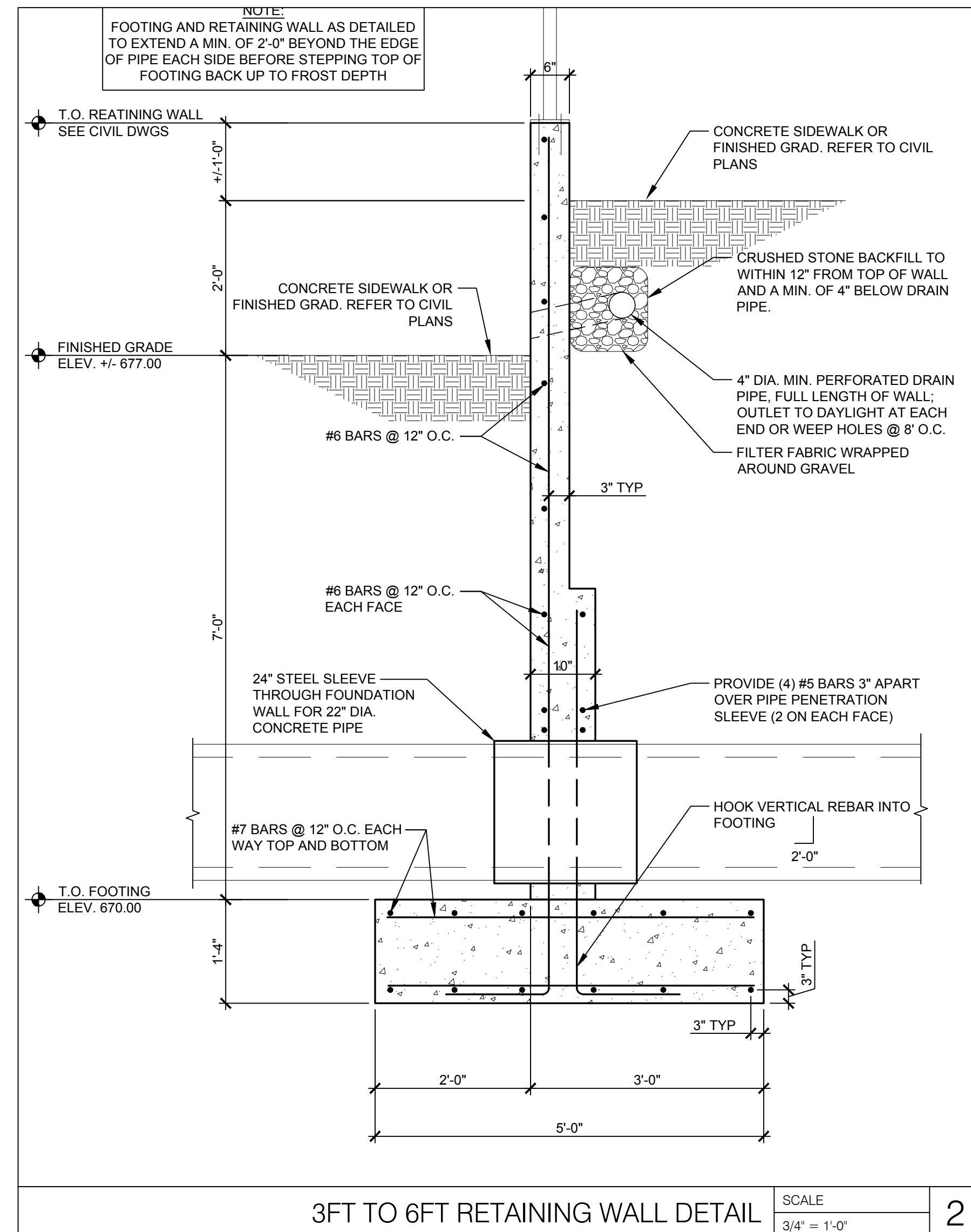
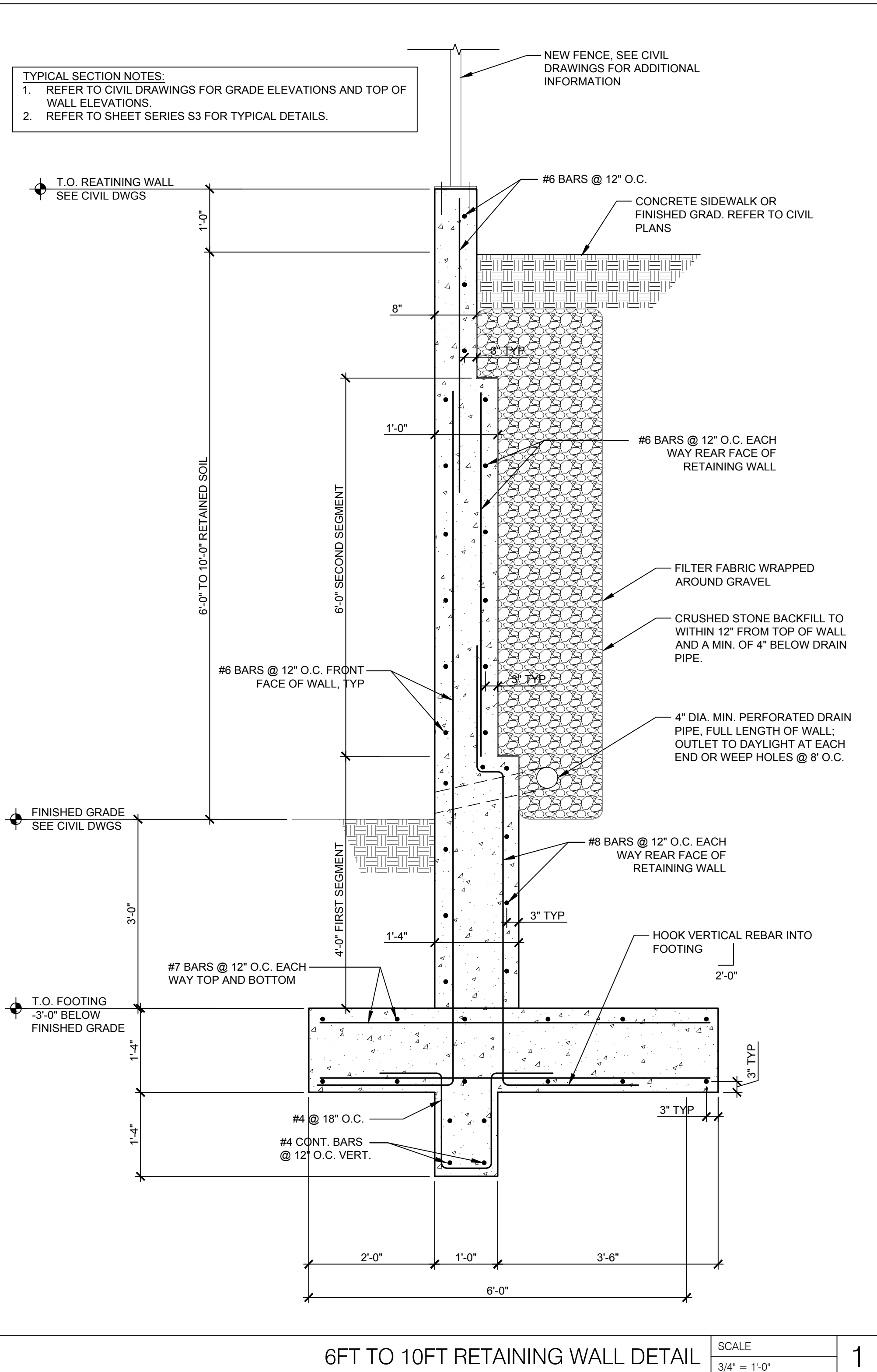
SHEET NO.
S1.0



RETAINING WALL DETAIL AT PIPE PENETRATION SCALE 3/4" = 1'-0" 2



RETAINING WALL PLAN SCALE N.T.S. 1



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CLIENT

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 KNOXVILLE, TN 37909

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REV	DATE	COMMENT	BY

DOCUMENT
 SITE PLAN APPROVAL

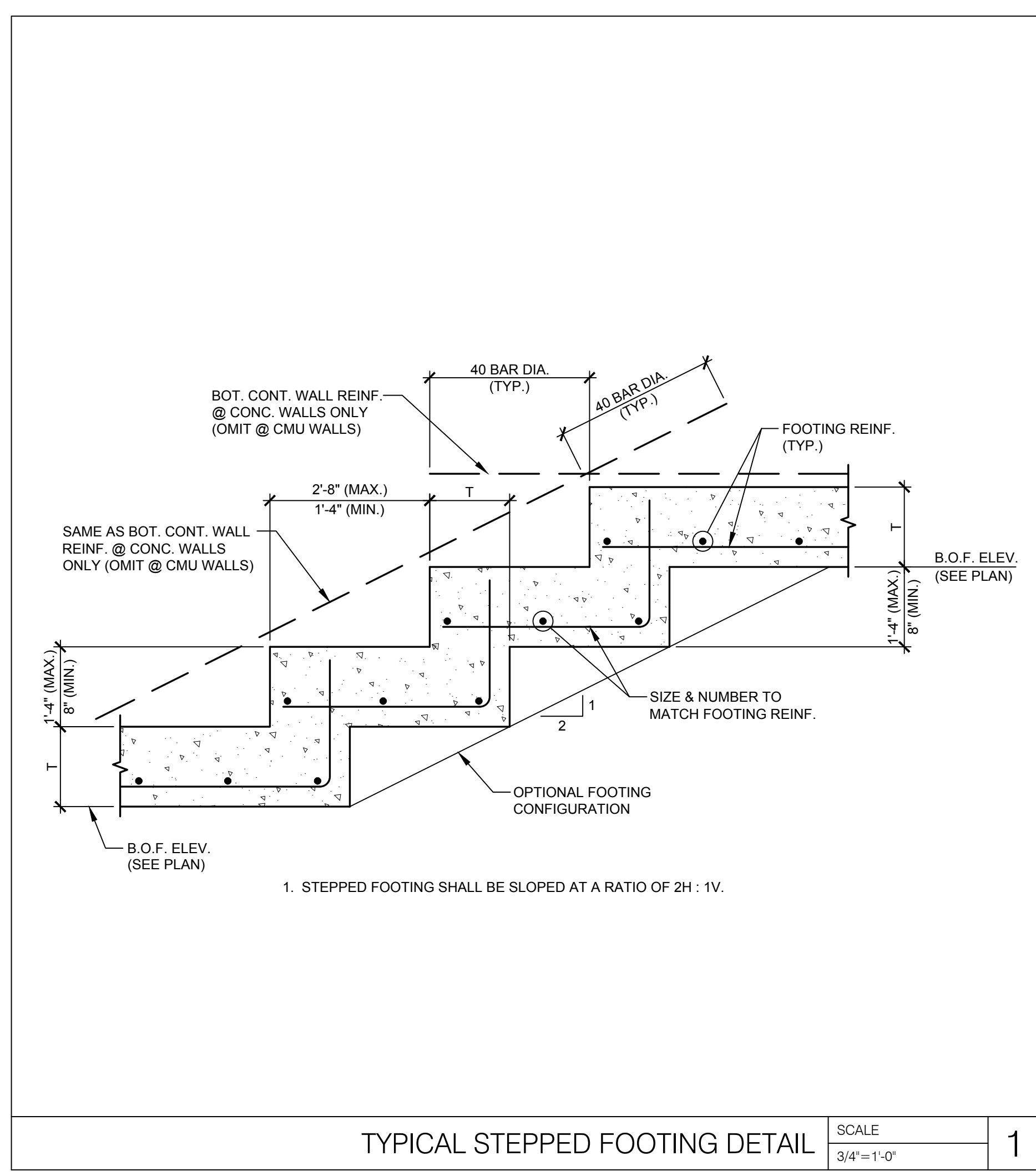
SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

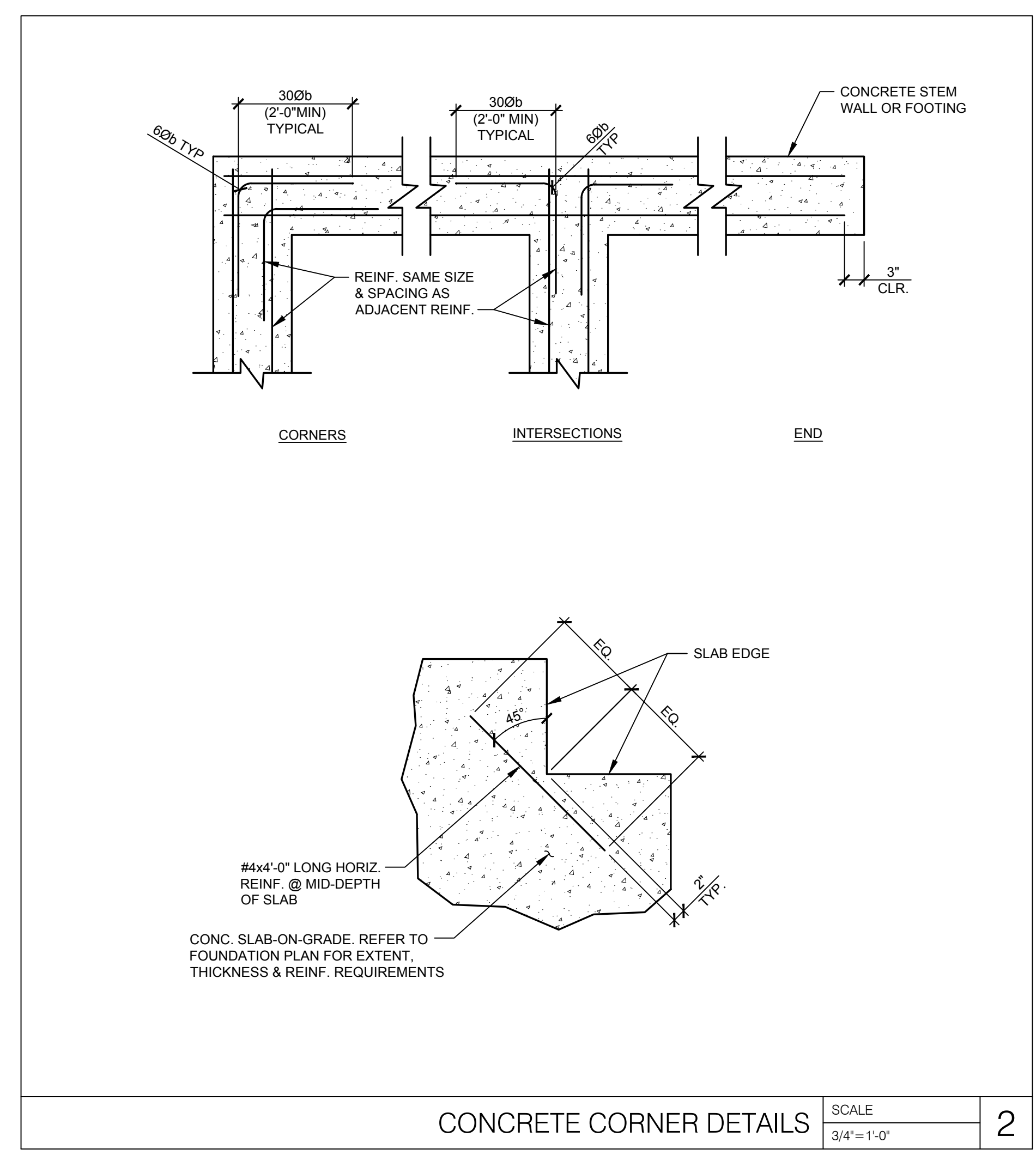
SHEET TITLE
 RETAINING WALL SECTIONS

JOB #: PIL 28950
 DATE: 02/10/20
 SCALE:
 DRAWN BY: ERS
 CHECKED BY: DAB

SHEET NO.
S2.0



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



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

STIRRUPS AND TIE HOOKS, ALL GRADES				
BAR SIZE	D, IN.	90° HOOKS		135° HOOKS
		A OR G	A OR G	H, APPROX.
#3	1 1/2	4"	5"	3 1/2"
#4	2	4 1/2"	6 1/2"	4 1/2"
#5	2 1/2	6"	8"	5 1/2"
#6	4 1/2	1'-0"	11"	6 1/2"
#7	5 1/4	1'-2"	1'-0 1/2"	7 3/4"
#8	6	1'-4"	1'-2 1/2"	9"

d_b = NOMINAL DIAMETER OF BAR OR WIRE (INCHES)

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

TENSION LAP SPLICES						COMPRESSION LAP SPLICES
BAR SIZE	LAP CLASS	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

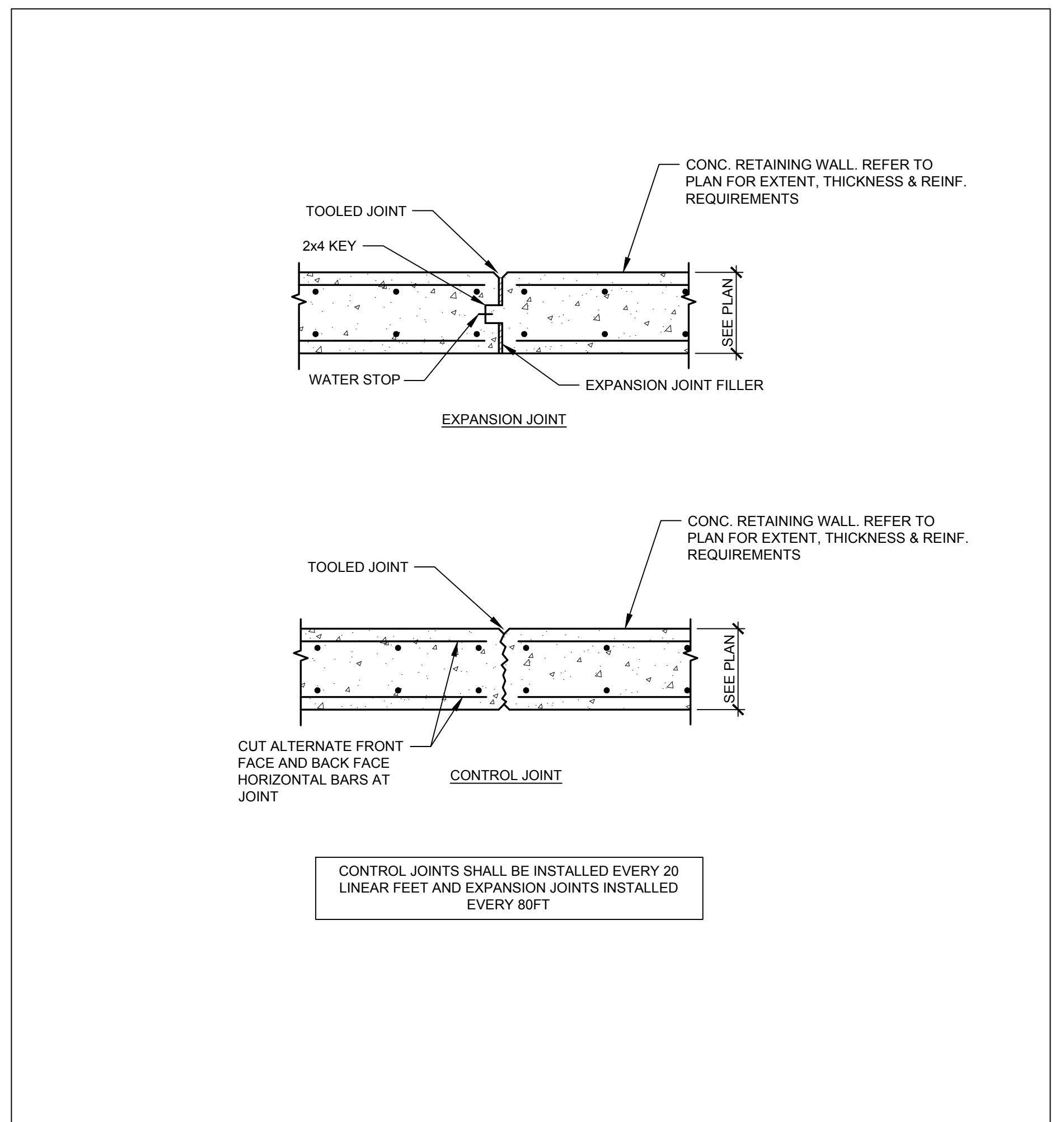
NOTES:
 1. UTILIZE A FACTOR OF 1.5 WHERE CONTACT SPLICES ARE REQUIRED.
 2. TABLE APPLIES TO CONCRETE WITH $f_c = 4000$ PSI OR GREATER.
 3. CASE 1: COVER AT LEAST $10d_b$ AND CENTER-TO-CENTER SPACING AT LEAST $20d_b$.
 4. CASE 2: COVER LESS THAN $10d_b$ AND CENTER-TO-CENTER SPACING AT LESS THAN $20d_b$.

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



CONTROL JOINT AND EXPANSION JOINT DETAIL SCALE N.T.S. 6

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REV	DATE	COMMENT	BY

DOCUMENT
 SITE PLAN
 APPROVAL

SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

ENGINEER SEAL

SHEET TITLE
 TYPICAL DETAILS
 JOB #: P1L_28950
 DATE: 02/10/20
 SCALE:
 DRAWN BY: ERS
 CHECKED BY: DAB

SHEET NO.
S3.0

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 SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
 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. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE AND DEFECTS. SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
 3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
 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 OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF ATTEMPTED TO BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
 5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADERS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
 7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED. THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.**
- D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.**
- E. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2" INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.**
- F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 PERCENT; AND NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.**
- G. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL TESTING AGENCY (SEE BELOW).**
- H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS TOP DRESSING OF TREES AND SHRUBS.**
- I. TREE STAKING AND GUYING**
1. STAKES: 1/2" LONG GREEN METAL T-POSTS.
 2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
 3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- J. STEEL EDGING: PROFESSIONAL STEEL EDGING, 1/4 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN, ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.**
- K. PRE-EMERGENT HERBICIDE: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.**

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. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
 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. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 12" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (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. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
 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 S.F.
 - ii. PRE-PLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
 - b. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE.
 - c. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - 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.
 5. 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.
 - a. 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.
 - b. 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 TRUNKS AND 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.
 - c. 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.
 - d. 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.
 - e. 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.
 - f. 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.
 6. 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. PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING

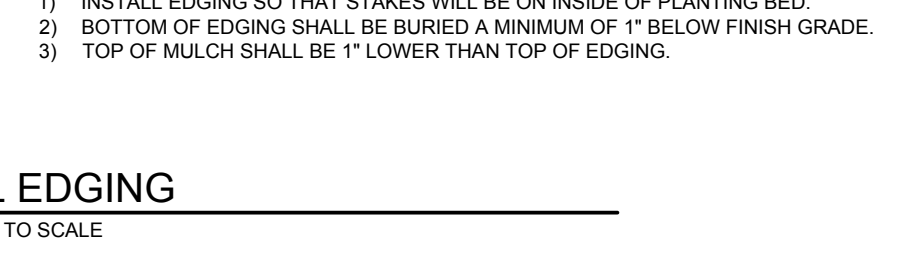
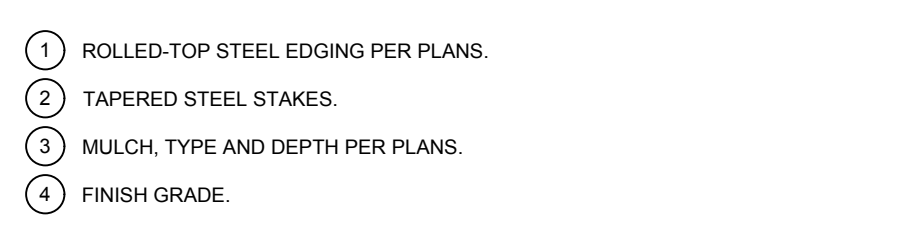
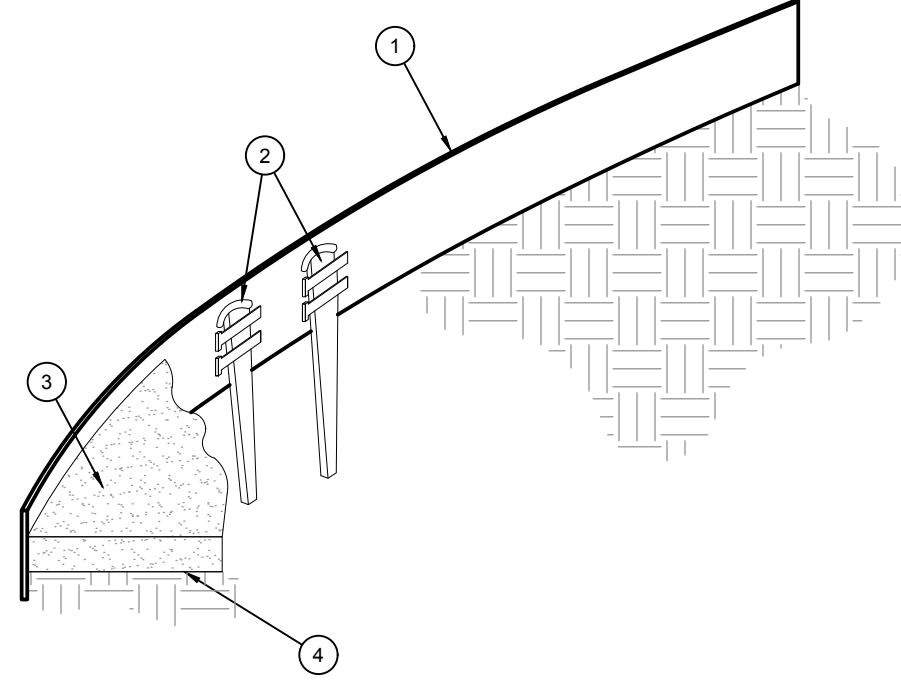
1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
3. TRECHING NEAR EXISTING TREES:
 - a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRECHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - c. ALTER ALIGNMENT OF PIPES TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CRZ WITHIN 24 HOURS.
 - d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

D. TREE PLANTING

1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS. THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT TEASE ROOTS OUT FROM THE ROOTBALL.
2. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE FINISH GRADE. PREVIOUS WINDS SHOULD BE NOTED.
3. SCARIFY THE TREE HOLE UTILIZING THE EXISTING TOPSOIL ON ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL. TREES SHALL NOT BE PLANTED IN LOCATIONS WITH PREVIOUS WINDS UNLESS THE CONTRACTOR REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FAIL TO SURVIVE, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - a. 1"-2" TREES: TWO STAKES PER TREE
 - b. 2"-12" TREES: THREE STAKES PER TREE
 - c. TREES OVER 4" CALIPER: GUY AS NEEDED
 - d. MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
4. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
5. SHRUB, PERENNIAL, AND GROUND-COVER PLANTING:
 1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANTS ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
 2. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
6. SODDING:
 1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
 4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
 5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

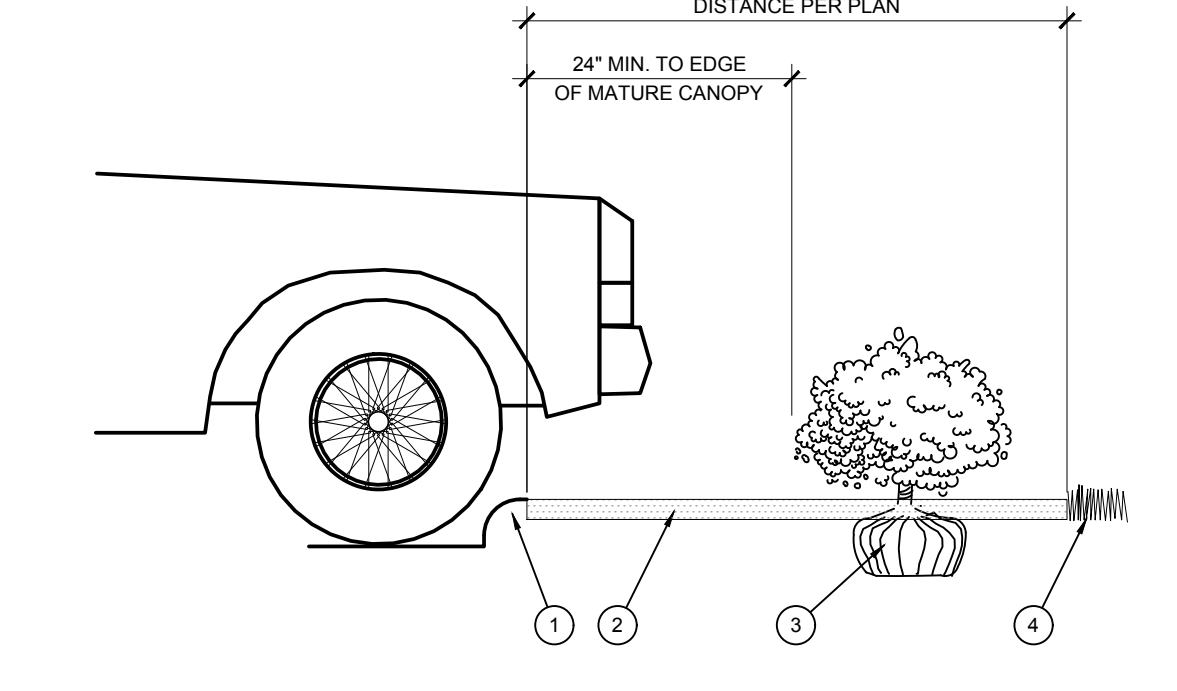
E. HYDROSEEDING

1. SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. GENERAL: CELLULOSE FIBER MULCH
 - b. 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - c. SEED RATE PER LEGEND
2. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
3. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALKS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALK.
4. CLEAN UP:
 1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
5. INSPECTION AND ACCEPTANCE:
 1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
6. LANDSCAPE MAINTENANCE:
 1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, MOVING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
 2. SHOULD SEEDS AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
 3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
 - a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
 - b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 - c. SODDED AREAS MUST BE ACTIVELY GROWING, AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESEDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.
7. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS:
 1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDS, HYDROMULCHED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
 2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
8. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

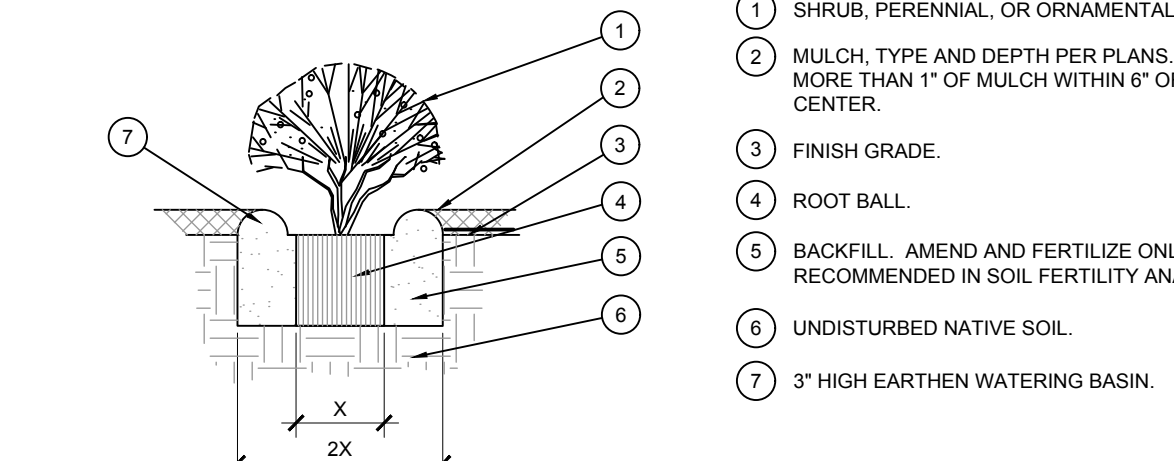


D STEEL EDGING
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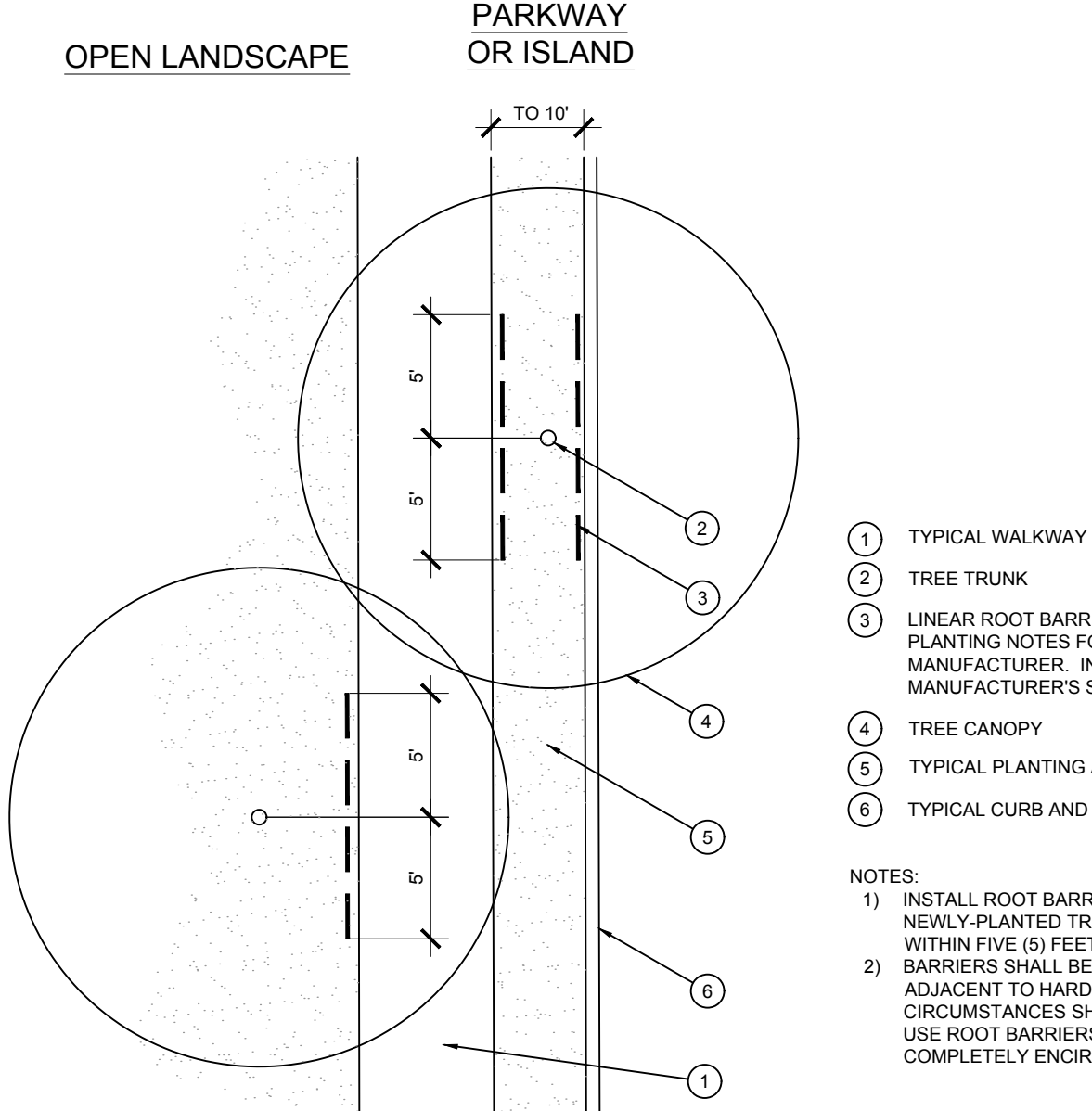
A TREE PLANTING
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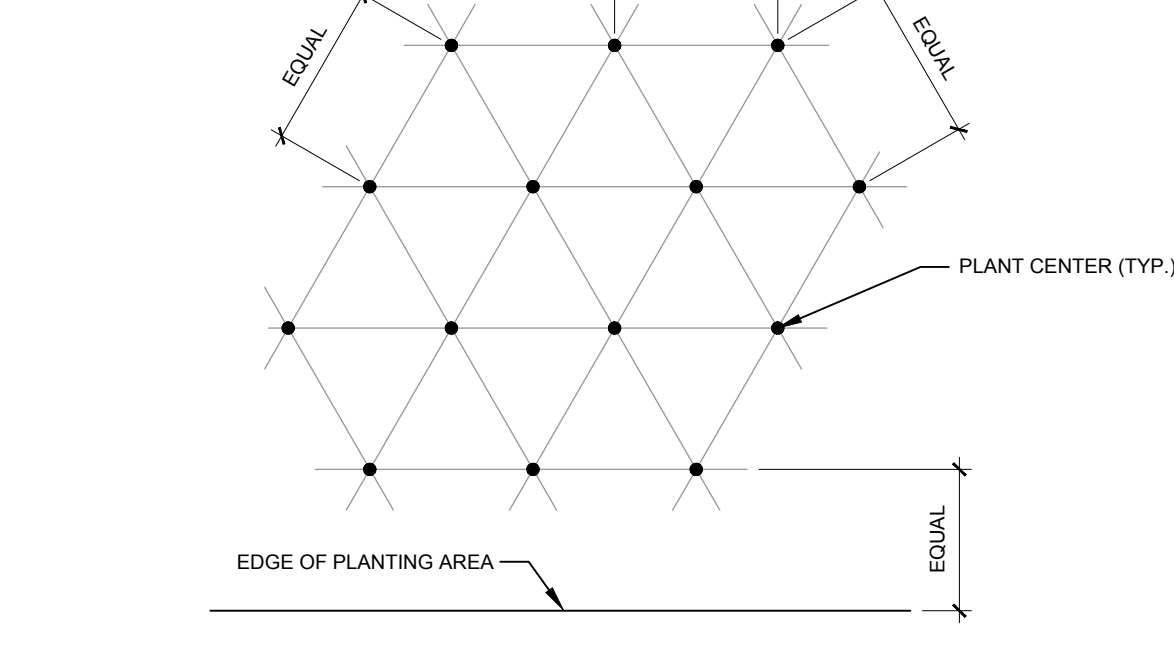
E PLANTING AT PARKING AREA
SCALE: NOT TO SCALE



B SHRUB AND PERENNIAL PLANTING
SCALE: NTS



F ROOT BARRIER - PLAN VIEW
SCALE: NOT TO SCALE



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. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
 3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
 4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
 5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	24"	3.46
10"	0.39	30"	6.41
12"	0.87	36"	7.79
15"	1.35		

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF / 1.95 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

CORE STATES GROUP

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

DOCUMENTS PREPARED BY CORESTATES, INC. INCLUDING THIS DOCUMENT ARE TO BE USED ONLY FOR THE SPECIFIC PROJECT AND SPECIFIC USER FOR WHICH THEY WERE INTENDED. ANY EXTENSION OF USE TO ANY OTHER PROJECT, BY OWNER OR BY ANY OTHER PARTY, WITHOUT THE EXPRESSED WRITTEN CONSENT OF CORESTATES, INC. IS DONE UNLAWFULLY AND SHALL BE AT THE USER'S OWN RISK. IT IS IN A WAY OTHER THAN THAT SPECIFICALLY INTENDED, USER WILL HOLD CORESTATES, INC. HARMLESS FROM ALL CLAIMS AND LOSSES.

Pilot TRAVEL CENTERS

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

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

REV	DATE	COMMENT	BY

SITE LOCATION
400 HAYNES STREET
STURBRIDGE, MA 01566

LANDSCAPE ARCHITECT SEAL

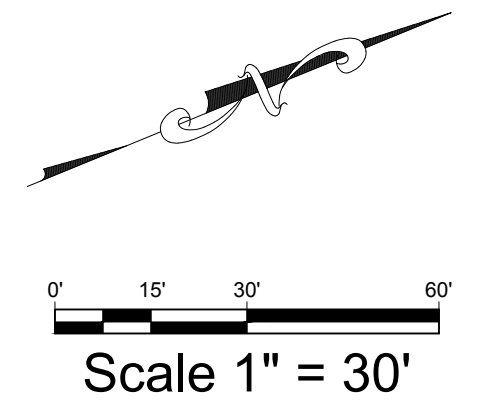
MASSACHUSETTS REGISTERED LANDSCAPE ARCHITECT

7/9/2020

SHEET TITLE
PLANTING DETAILS AND SPECS

JOB #: XXXXXXX
DATE: XXXXXX
SCALE:
DRAWN BY: XXX
CHECKED BY: XXX
SHEET NO.
LP-3

SEE SHEET TD-2 FOR TREE
LEGEND AND SPECS



CORE STATES GROUP
 9 GALEN STREET, SUITE 117
 WATERTOWN, MA 02472
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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 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 AT EACH LOCATION OF UTILITY AT ALL TIMES PRIOR TO ANY EXCAVATION.

REV	DATE	COMMENT	BY

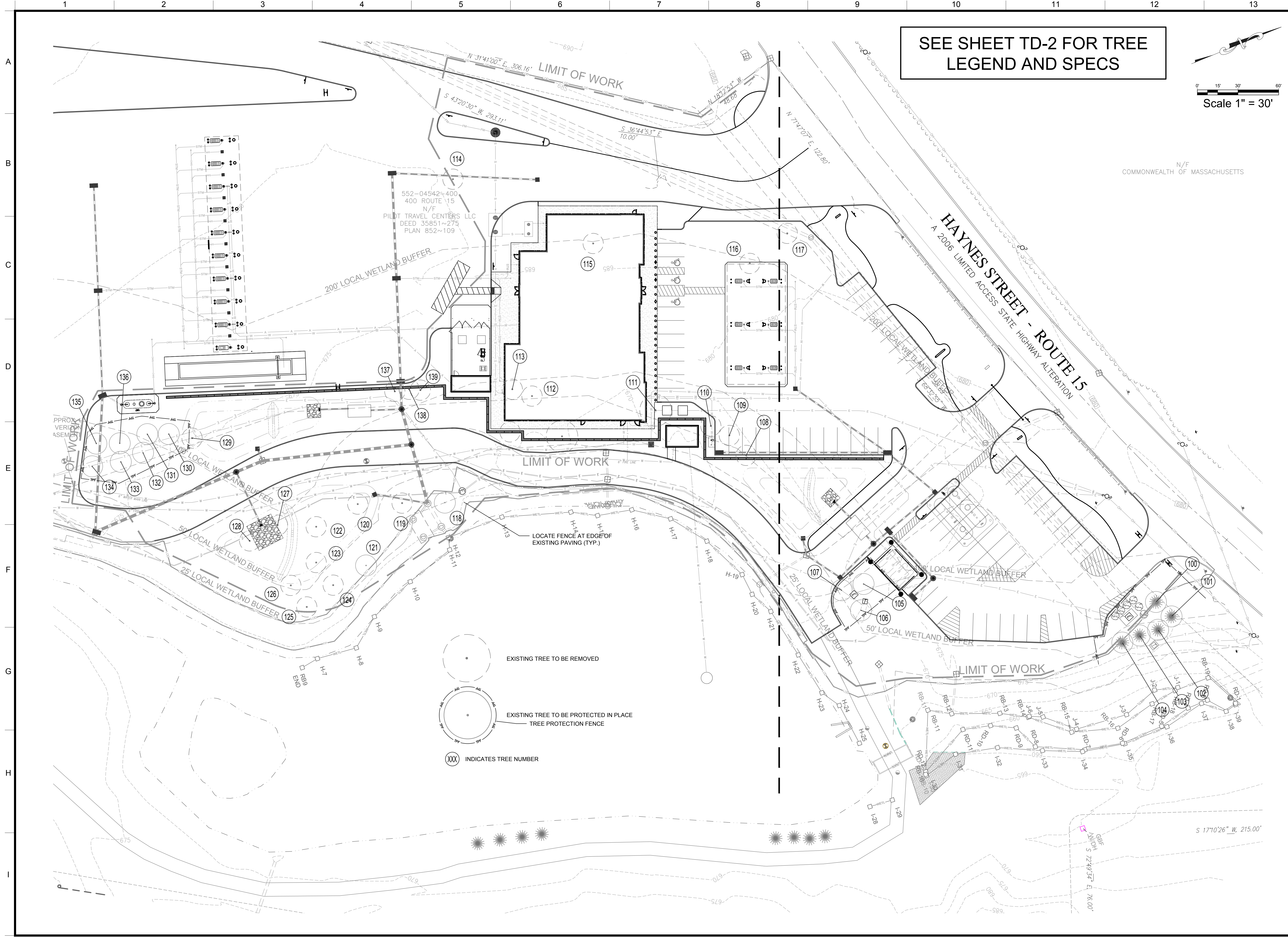
DOCUMENT
 SITE LOCATION
 400 HAYNES STREET
 STURBRIDGE, MA 01566

LANDSCAPE ARCHITECT
 SEAL

 7/9/2020

SHEET TITLE
TREE DISPOSITION PLAN
 JOB #: XXXXXXXX
 DATE: XXXXXXXX
 SCALE: XXXXXXXX
 DRAWN BY: XXX
 CHECKED BY: XXX

SHEET NO.
TD-1



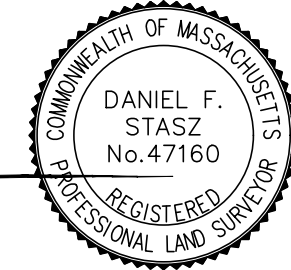
LEGEND

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:

- FIELD SURVEY BY EDM TOTAL STATION & RTK GPS.
- HORIZONTAL DATUM IS NAD83, THE VERTICAL DATUM IS NAVD88, BOTH WERE BASED ON AN RTK GPS SURVEY.
- THE LOCATIONS OF UTILITIES SHOWN HEREON ARE ONLY THE RESULT OF SURFACE EVIDENCE. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION OF THESE UTILITIES AND MAY NOT SHOW ALL OF THE UTILITIES WHICH EXIST WITHIN THE PREMISES SURVEYED. CONTACT DIG-SAFE AT 1-888-344-7233 BEFORE EXCAVATION.
- WETLANDS SHOWN HEREON WERE DELINEATED BY ECO TEC, INC. ON 1/15/2020 AND LOCATED BY THIS SURVEY.
- TOPOGRAPHY AND DETAIL IN AND ADJACENT TO HAYNES STREET IS THE RESULT OF A FIELD SURVEY BY THIS OFFICE. ALL OTHER TOPOGRAPHY, UTILITIES, SITE DETAILS AND STRUCTURES ARE TAKEN FROM A PLAN ENTITLED "EXISTING SITE PLAN, PILOT TRAVEL CENTER" PREPARED BY BERTIN ENGINEERING ASSOCIATES, INC., DATED 9/25/2009 AND FIELD CHECKED BY THIS SURVEY.
- ALL PROPERTY LINES, EASEMENT LINES AND SETBACK LINES SHOWN HEREON ARE TAKEN FROM THE PLAN REFERENCED IN NOTE 5 ABOVE.
- INVERT INFORMATION FOR THE 4 DRAIN STRUCTURES SHOWN AND LOCATION OF DEEP HOLE OBSERVATIONS (DHO) AND ROAD BOXES WAS DONE ON 04/23/2020.

Daniel F. Stasz
DANIEL F. STASZ PLS #47160

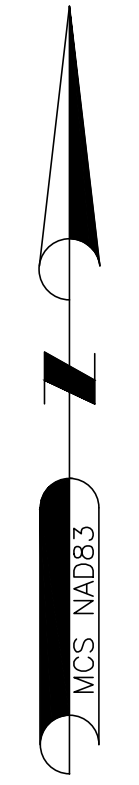
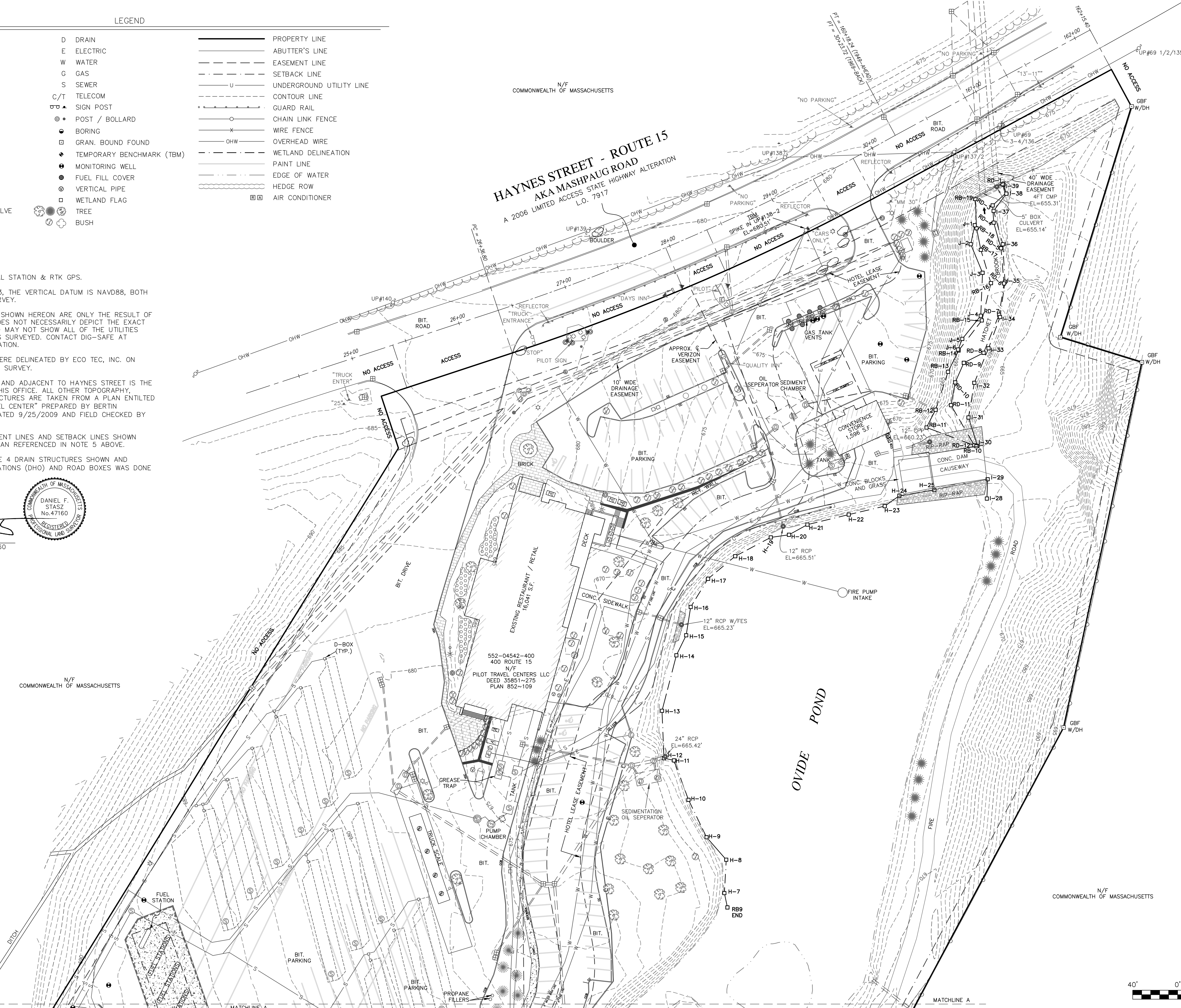


N/F
COMMONWEALTH OF MASSACHUSETTS

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

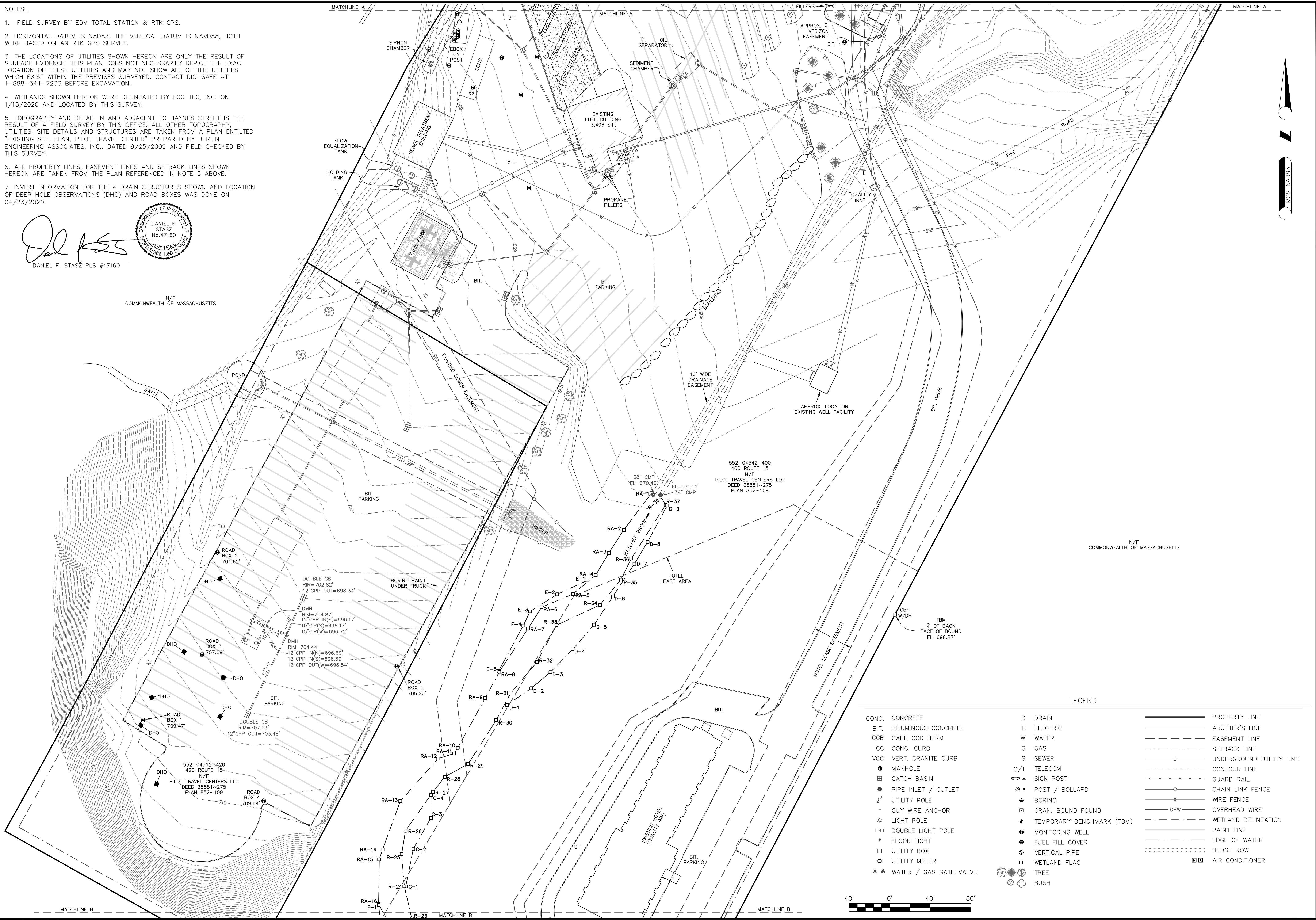
**PLAN OF LAND IN
STURBRIDGE, MA**
PREPARED FOR
CORE STATES GROUP

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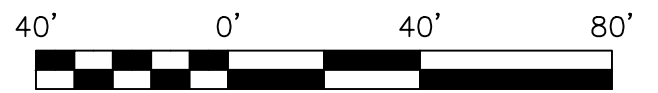
Daniel F. Stasz
 DANIEL F. STASZ PLS #47160
 REGISTERED PROFESSIONAL LAND SURVEYOR
 COMMONWEALTH OF MASSACHUSETTS
 No. 47160

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
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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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