

PROJECT INFORMATION

C0.1

CIVIL SPECIFICATIONS

DIVISION 31 EARTH WORK

31 10 00 SITE CLEARING (DEMOLITION)

- A. CONTRACTOR SHALL CALL DIG SAFE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- B. DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPLACE, OR DEMOLISH ALL ITEMS AS NOTED DURING CONSTRUCTION.
- C. CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- D. ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL JOINT.

31 20 00 EARTH MOVING

- A. CONTRACTOR SHALL CALL DIG SAFE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- B. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
- C. ALL ORGANIC TOPSOIL, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROOF ROLL SUBGRADES BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT SPOTS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
- D. PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS. UNIFORM MOISTURE OR AERATE SUBGRADE AND EACH LAYER SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE OR SCARIFY AND AIR DRY, OTHERWISE SATISFACTORY SOIL MATERIAL, THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
- E. PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 18" IN LOOSE DEPTH FOR MATERIAL, COMPACTED BY HEAVY CONVEYER DRUM, STANDARD PROCTOR TEST FILL SHALL NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIAL MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
- F. COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698 STANDARD PROCTOR TEST FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIAL MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
1. UNDER FOUNDATIONS - SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 98 PERCENT.
2. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE, WITH 10% TO 12% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS. ON PREPARED SUBGRADE, COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
3. UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE - PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE, WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS OR PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
4. UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
5. UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
6. UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
- G. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHOULD PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USE TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE QUALITY CONTROL TESTS. THE REPORT MUST BE PREPARED BY THE FOLLOWING:
1. ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER THE TESTING AGENCY HAS NOTICED THAT THE EARTHWORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB. ONE TEST FOR EACH PAVED FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STOP FOOTING.
2. WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCARIFY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED. RECOMPACT AND RETEST UNTIL SPECIFIED DEGREE OF COMPACTION IS ACHIEVED.
- J. THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 1/8" OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

31 30 00 EROSION CONTROL/STORMWATER MANAGEMENT

- A. THE EXCEL ENGINEERING DESIGN ENGINEER SHALL PREPARE A SITE SPECIFIC EROSION CONTROL AND A STORMWATER MANAGEMENT PLAN PURSUANT TO MAINE DEP REGULATIONS. THE DESIGN ENGINEER SHALL ALSO FILE A NOTICE OF INTENT TO COMPLY MAINE CONSTRUCTION GENERAL PERMIT.
- B. CONTRACTOR SHALL KEEP THE CONSTRUCTION GENERAL PERMIT, APPROVED EROSION CONTROL AND STORMWATER MANAGEMENT PLANS, AND PLAN AMENDMENTS ON THE CONSTRUCTION SITE AT ALL TIMES UNTIL PERMIT COVERAGE IS TERMINATED.
- C. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL EROSION CONTROL PERMITS.
- D. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE MINIMUM REQUIREMENTS FOR EROSION REPORTING REQUIREMENTS OF MAINE DEP STANDARDS. INSPECTIONS TO IMPLEMENT EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MUST AT A MINIMUM BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.5" OR MORE. A RAIN EVENT MAY BE CONSIDERED TO BE THE TOTAL AMOUNT OF PRECIPITATION RECORDED IN ANY CONTINUOUS 24-HOUR PERIOD. CONTRACTOR SHALL REPAIR EROSION AND SEDIMENT CONTROL AS NECESSARY WITHIN 24 HOURS OF AN INSPECTION OR AFTER A DEPARTMENT NOTIFICATION WHERE REPAIR OR REPLACEMENT IS REQUESTED.
- E. THE CONTRACTOR SHALL MAINTAIN, AT THE CONSTRUCTION SITE OR AVAILABLE VIA AN INTERNET WEBSITE, WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS CONDUCTED. WEEKLY INSPECTION REPORTS SHALL INCLUDE ALL OF THE FOLLOWING:
1. THE DATE, TIME, AND LOCATION OF THE CONSTRUCTION SITE INSPECTION.
2. THE NAME OF THE INDIVIDUALS CONDUCTING THE INSPECTIONS.
3. AN ASSESSMENT OF THE CONDITION OF THE EROSION AND SEDIMENT CONTROLS.
4. A DESCRIPTION OF ANY EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE IMPLEMENTATION AND MAINTENANCE PERFORMED.
5. A DESCRIPTION OF THE PRESENT PHASE OF LAND DISTURBING CONSTRUCTION ACTIVITY AT THE CONSTRUCTION SITE.
- F. EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN MAINE EROSION AND SEDIMENT CONTROL GUIDE FOR CONTRACTORS. TECHNICAL STANDARDS PUBLISHED BY THE MAINE DEP SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
1. SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL GUIDE FOR CONTRACTORS.
2. DITCH CHECKS SHALL BE PROVIDED TO REDUCE THE VELOCITY OF WATER FLOWING IN DITCH BOTTOMS. PLACE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL GUIDE FOR CONTRACTORS.
3. STONE TRACING PADS AND TRACKOUT CONTROL PRACTICES SHALL BE PLACED AT EACH CONSTRUCTION SITE ENTRANCES AND SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE CONSTRUCTION SITE. SEE THE EROSION CONTROL PLAN FOR LOCATIONS. THE AGGREGATE USED FOR THE STONE TRACING PAD SHALL BE 1/8" TO 3/4" INCH CLEAR OR WASHED STONE AND SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK. THE STONE SHALL BE UNDERLAIN WITH A TYPE E GEOTEXTILE FABRIC AS NEEDED. THE TRACING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT (10' MIN WIDTH) AND SHALL BE A MINIMUM OF 50 FEET LONG. SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACING PAD. OTHER TRACKOUT CONTROL PRACTICES INCLUDING STABILIZED AREAS, PAVED AREAS, MANUFACTURED TRACKOUT CONTROL DEVICES, TREE WASHING, AND STREET/PAVEMENT CLEANING SHALL BE IMPLEMENTED AS NECESSARY TO MITIGATE THE TRACKOUT OF SEDIMENT OFFSITE. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL GUIDE FOR CONTRACTORS.
4. STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
5. DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRAYING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKERS, CHIPPINGS, AND BARBERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
6. THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATER OF THE STATE.
7. CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
8. TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL, SEED, AND MULCH SHALL BE IN PLACE FOR CONFORMANCE WITH MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
9. SITE DRAINAGING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES. ALL SEDIMENT LADEN WATER GENERATED DURING THE DRAINAGING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
10. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS. FLUSHING SHALL NOT BE ALLOWED.
- G. EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREAS SERVED HAVE ESTABLISHED VEGETATIVE COVER.
- H. ONCE THE CONSTRUCTION SITE HAS BEEN FULLY STABILIZED AND TEMPORARY EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN REMOVED, THE CONTRACTOR SHALL FILE A CONSTRUCTION NOTICE OF TERMINATION WITH THE MAINE DEP.
- I. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL GIVE THE OWNER COPIES OF THE EROSION CONTROL AND STORM WATER MANAGEMENT PLANS, AMENDMENTS TO PLANS, SUPPORTING PLAN DATA, AND CONSTRUCTION SITE EROSION CONTROL INSPECTION REPORTS. THE OWNER SHALL RETAIN THESE FOR A PERIOD OF 3 YEARS FROM THE DATE OF TERMINATING COVERAGE UNDER MAINE CONSTRUCTION GENERAL PERMIT.
- J. ALL POST CONSTRUCTION STORMWATER MANAGEMENT BEST MANAGEMENT PRACTICES SHALL BE CONSTRUCTED BEFORE THE SITE HAS UNDERGONE FINAL STABILIZATION.

DIVISION 32 EXTERIOR IMPROVEMENTS

32 10 00 AGGREGATE BASE & ASPHALT PAVEMENT

- A. CONTRACTOR TO PROVIDE COMPACTED AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT WHERE INDICATED ON THE PLANS. ALL AGGREGATE PROVIDED MUST COMPLY WITH MANDEOT STANDARD SPECIFICATIONS LATEST EDITION. PROVIDE HOT MIX ASPHALT MIXTURE TYPES PER MANDEOT STANDARD SPECIFICATIONS LATEST EDITION. CONTRACTOR SHALL OBTAIN AND REVIEW SOILS REPORT FOR RECOMMENDATIONS FOR GEO-GRID / GEOTEXTILE BELOW CRUSHED AGGREGATE (IF APPLICABLE). CONTRACTOR TO PROVIDE AGGREGATE BASE AND HOT MIX ASPHALT PAVEMENT TYPES AND DEPTHS AS INDICATED BELOW.

STANDARD ASPHALT PAVING SECTION	HEAVY ASPHALT PAVING SECTION
1 1/2" SURFACE COURSE MANDEOT 5.5 MM MAX	1 1/2" SURFACE COURSE MANDEOT 5.5 MM MAX
1 1/2" BINDER COURSE MANDEOT 5 MM MAX	1 1/2" BINDER COURSE MANDEOT 5 MM MAX
6" OF MANDEOT AGGREGATE BASE TYPE 1	6" OF MANDEOT AGGREGATE BASE TYPE 1
12" OF MANDEOT AGGREGATE SUBGRADE TYPE 2	12" OF MANDEOT AGGREGATE SUBGRADE TYPE 2

- WOMEN GEOTEXTILE (M80AF1 H370) OVERLYING PROPERLY PREPARED SUBGRADE.
- B. CONTRACTOR TO COMPACT THE AGGREGATE BASE, ASPHALT BINDER COURSE, AND ASPHALT SURFACE COURSE TO AN AVERAGE DENSITY PER MANDEOT STANDARD SPECIFICATIONS LATEST EDITION. ALL ASPHALT PAVEMENT AREAS SHALL BE PAVED TO WITHIN 0.5% OF DESIGN SURFACE GRADES WITH POSITIVE DRAINAGE BEING MAINTAINED IN ACCORDANCE WITH DESIGN PLANS. A MINIMUM OF 1.5% SLOPE SHALL BE MAINTAINED IN ALL ASPHALT PAVEMENT AREAS.
- C. HOT MIX ASPHALT CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF GEOTECHNICAL REPORT OR CONSTRUCTION DOCUMENTS.
- D. CONTRACTOR TO PROVIDE 4" WIDE YELLOW PANTON MARKING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. YELLOW PANTON MARKINGS SHALL ALSO BE PROVIDED FOR I.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

32 20 00 CONCRETE AND AGGREGATE BASE

- A. CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
1. ALL AGGREGATE PROVIDED MUST COMPLY WITH MANDEOT STANDARD SPECIFICATIONS LATEST EDITION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY MANDEOT STANDARD SPECIFICATIONS LATEST EDITION.
2. DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 308R-08 AND 318-08.
- D. EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK CONSTRUCTION IS AS FOLLOWS.
1. SEDIMENTAL CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE. CONSTRUCTION JOINTS SHALL CONSIST OF 1/4" WIDE BY 1" DEEP TONGUED JOINT WHERE INDICATED ON THE PLANS.
2. EXTERIOR PAVEMENTATION CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE.
- a. CONCRETE SHALL BE STEEL REINFORCED WITH THE FOLLOWING AND PLACED IN THE UPPER 1/3 TO 1/2 OF THE SLAB.
- 1) THE BARS AT EACH JOINT OR JOINTS OF THE CONCRETE. THE BARS SHALL BE #4 REBAR 30" LONG PLACED AT 30" O.C.
- b. DUMPTER PAD CONCRETE JOINTING SHALL BE AS FOLLOWS:
- 1) CONSTRUCTION SAWCUT JOINT - CONTRACTOR SHALL PROVIDE A SAWCUT JOINT AT MAXIMUM SPACING OF 15' ON CENTER. SAWCUT SHALL BE 2" IN DEPTH.
- 2) TYPICAL POOL COVER JOINT - POOL COVER JOINT SHALL BE PROVIDED WITH 1-1/4" DIAMETER BY 20" LONG SMOOTH DOWNER PLATE AT 12" O.C. ONE HALF OF THE DOWEL SHALL BE GRADED. GREENTREK 9" SPEED WHEEL TUBES SHALL BE USED.
3. HEAVY DUTY CONCRETE (TRUCK TRAFFIC) - 4" OF CONCRETE OVER 6" OF 3/4" CRUSHED AGGREGATE. CONCRETE SHALL BE REINFORCED WITH #8 REBARS ON CHAIRS AT 3' O.C. REBAR SHALL BE PLACED PLACED IN THE UPPER 1/3 TO 1/2 OF THE SLAB. CONSTRUCTION JOINTS SHALL BE SAWCUT 15' IN DEPTH AND BE SPACED AT A MAXIMUM OF 15' ON CENTER.
- E. DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94
1. STRENGTH TO BE MINIMUM OF 4,500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
2. MAXIMUM WATER/CEMENT RATIO SHALL BE 0.45.
3. SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK.
4. SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER.
5. SLUMP SHALL BE BETWEEN 15" TO 3" FOR NON-SLIP-FORMED CURB AND GUTTER.
6. ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
7. MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
- F. VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIREING PAD. PADS SHALL HAVE FIBERESH 380 FIBERS AT A RATE OF 3.5 LB/CU YD. OR 6 IN 4 W 1.1 WELED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH CONTRACTOR.
- G. ALL CONCRETE FLAT WORK SUBSEQUENT CONCRETE CURB OR FINISHES SHALL BE CONSTRUCTED TO WITHIN 0.0% OF DESIGN SURFACE AND FLOWLINE GRADES ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
- H. CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER SHALL BE PLACED BY THE END OF THE WORKING DAY OR CLOSER IF FEASIBLE. 1. CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB, JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROCH PREP UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C639 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.5 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
- I. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR UP TO #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 48 DIAMETERS FOR UP TO #6 BARS, 62 DIAMETERS FOR #7 TO #9 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNED BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE, OIL, OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 106. WELDED WIRE FABRIC SHALL BE PLACED 7' FROM TOP OF SLAB, UNLESS INDICATED OTHERWISE.
- J. CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301. CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH CONCRETE SAMPLE FOR EACH DAYS POUR OF EACH CONCRETE MIX EXCEEDING 5 CU YD, BUT LESS THAN 25 CU YD, PLUS ONE SET FOR EACH ADDITIONAL 50 CU YD OR FRACTION THEREOF. PERFORM COMPRESSIVE STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT EACH POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAYS POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE COMPOSITION APPEARS TO CHANGE.
- K. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION CONTROL COMD AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FINISHING, BUT BEFORE POWER FLOATING AND TROWELLING.
- L. LIMIT MAXIMUM WATER-CEMENT/NOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DICING SALTS TO 0.45.
- M. TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER. READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

32 30 00 LANDSCAPING AND SITE STABILIZATION

- A. TOPSOIL - CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN A LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF SITE. SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPE FINAL GRADING. LANDSCAPE TO PROVIDE PULVERIZING AND FINAL GRADING OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL IMPROVEMENTS. TEST SOIL FOR PRESENCE OF ATRAZINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 6.5 AND CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH MUST ALSO BE REMOVED. SEEDING MIXTURES SHOULD FOLLOW MANDEOT SEEDING SPECIFICATIONS.
- B. TOPSOIL INSTALLATION - LOOSEN SURFACE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDGY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORM FINE TEXTURE. GRADE TO WITHIN 0.5% OF FINISHED GRADE ELEVATION.

- B. SEEDING LAWNS
1. PERMANENT LAWN AREAS SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (20.2 LB 5.5, 1000 S.F.), 20% PERENNIAL RYEGRASS (0.6 LB 5.5, 1000 S.F.), 15% FINE FESCUE (0.4 LB 5.5, 1000 S.F.), STRAW AND MULCH SHALL BE Laid AT 1000 LB/5,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/5,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDDED AS PERMANENT LAWN. NO BARE TOPSOIL SHALL BE LEFT ON SITE. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
2. ALL PERMANENT AND TEMPORARY STORM WATER CONVEYANCE SHALL BOTTOMS AND SIDE SLOPES SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.60 LB 5.5, 1000 S.F.), 40% CREeping RED FESCUE (0.50 LB 5.5, 1000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LB 5.5, 1000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/5,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
3. ALL TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 1.9 LB/5,000 S.F. STRAW AND MULCH SHALL BE Laid AT 100 LB/5,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LB/5,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN MAINE EROSION AND SEDIMENT CONTROL PRACTICES FIELD GUIDE FOR CONTRACTORS.
- C. SEEDED LAWN MAINTENANCE - CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, UNIFORM, CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. WEEDS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING. CONTRACTOR SHOULD RESEAL LAWN AREAS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.

- D. EROSION MATTING
1. CONTRACTOR TO PROVIDE EROSION CONTROL MATTING NORTH AMERICAN GREEN S150 OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
2. CONTRACTOR TO PROVIDE EROSION MATTING NORTH AMERICAN GREEN C120 OR EQUIVALENT IN ALL SLOPES OF 3:1 OR GREATER. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
- E. TREES AND SHRUBS - FURNISH NURSERY-GROWN TREES AND SHRUBS WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, AND HEALTHY LOOKING STOCK. STOCK SHOULD ALSO BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS CANCER, SCALE, AND DISFIGUREMENT. SEE THE LANDSCAPE PLAN FOR SPECIFIC SPECIES TYPE, SIZE, AND LOCATION.
- F. TREE AND SHRUB INSTALLATION - EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BARE LEAVING CENTER AREA RAISED 1/2" TO SUPPORT ROOT BALL. EXCAVATE PIT APPROXIMATELY THREE TIMES AS WIDE AS THE ROOT BALL DIAMETER. SET TREES AND SHRUBS PLUMED AND IN CENTER OF PIT WITH TOP OF BALL 1" ABOVE FINISHED GRADE. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS AND TAMP TO SETTLE MIX. WATER ALL PLANTS THOROUGHLY. PROVIDE TEMPORARY STAKING FOR TREES AS REQUIRED.
- G. TREE AND SHRUB MAINTENANCE/WARRANTY - CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. MAINTENANCE TO INCLUDE REGULAR WATERING AS REQUIRED FOR SUCCESSFUL PLANT ESTABLISHMENT. CONTRACTOR TO PROVIDE 1 YEAR WARRANTY ON ALL TREES, SHRUBS, AND PERENNIALS.

- H. MINERAL MULCH - PROVIDE 3" MINIMUM THICK BLANKET OF 1/5" MINIMUM TO 2 1/2" MAXIMUM CRUSHED DECORATIVE STONE AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVED WEED BARRIER FABRIC. COLOR BY OWNER.
- I. PLASTIC EDGING - INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAMIN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- J. LANDSCAPE AND LAWN IRRIGATION - CONTRACTOR TO PROVIDE DESIGN AND INSTALLATION OF IRRIGATION SYSTEM. PROVIDE VALVES, VALVE BOXES, SPRINKLERS, EMITTERS, DROP TUBES, AND CONTROLS IN COMBINATIONS THAT BEST SUIT THE LANDSCAPE PLAN LAYOUT. ALL LAWN AND LANDSCAPING AREAS SHALL BE PROVIDED WITH IRRIGATION WITH AS DELINEATED BY THE DESIGN PLANS. THE SYSTEM SHALL BE DESIGNED FOR FULLY AUTOMATIC OPERATION AND PROVIDE ALL NECESSARY CONTROLS, VALVES, AND WIRING TO OPERATE THE SYSTEM. THE CONTROL UNIT SHALL BE INSTALLED IN A MECHANICAL ROOM OR AT A LOCATION AGREED TO WITH THE OWNER. THE CONTROL UNIT SHOULD BE PROVIDED WITH A LOCKING COVER.
- K. RIP-UP SHALL OR ROTARY SPRINKLERS SHALL BE USED AT LAWN AREAS TO PROVIDE A UNIFORM COVERAGE OF 10 TO 2 INCHES OF WATER PER HOUR. EMITTERS AND DROP TUBES OR SHRUBBERY SPRINKLERS SHALL BE USED AT PLANTS AND SHRUBS AS APPROPRIATE FOR THE PLANTING DESIGN AND SPECIES TYPE. ALL SPRINKLER HEADS SHALL BE COMMERCIAL GRADE. THE SYSTEM SHALL BE CHECKED AS REQUIRED TO PROVIDE ADEQUATE WATER FLOW TO EACH SPRINKLER HEAD. THE CONTROL SYSTEM MUST INCLUDE A RAIN SENSING SHUT OFF DEVICE. THE ENTIRE SYSTEM IS TO BE INSTALLED WITH A MINIMUM UNIFORM SLOPE OF 0.5 PERCENT TOWARD DRAIN VALVES.

DIVISION 33 UTILITIES

33 10 00 SITE UTILITIES

- A. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR PER CODES OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
- B. CONTRACTOR TO FIELD TELEVEY ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELEVEYING SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELEVEYING OF THESE LATERALS SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELEVEYING.
- C. ALL SANITARY PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. ALL SANITARY PIPE BELOW PROPOSED 8 FUTURE BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL. INSULATION SHALL BE PROVIDED PER STATE PLUMBING CODES AS NECESSARY BASED ON PROPOSED DEPTH PER PLANS.
- D. SANITARY MANHOLES SHALL BE 48" PRECAST AND CONFORM TO THE STANDARD SPECIFICATIONS FOR SEWER & SANITARY MANHOLE FRAME AND GRATE TO BE NEDENAH 8-1550-R OR EQUAL. RIM ELEVATION TO BE SET AT FINISHED GRADE IN DEVELOPED AREAS AND 12" ABOVE FINISHED GRADE IN UNDEVELOPED AREAS EXCEPT AS OTHERWISE DIRECTED BY THE ENGINEER.
- E. CLEANOUTS SHALL BE PROVIDED FOR THE SANITARY & STORM SERVICES AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE UTILITY. THE CLEANOUT SHALL BE PROVIDED WITH A 6" VERTICAL PVC PIPE WITH A WATER TIGHT REMOVABLE CLEANOUT PLUG. AN 8" PVC POST SHALL BE PROVIDED. THE BOTTOM OF THE POST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL OR AT LEAST 6" BELOW THE PREDICTED FROST DEPTH. WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE POST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A TURN (2-1414-N) HEAVY DUTY CLEANOUT HOUSING WITH THE POST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES, SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURER'S REQUIREMENTS.
- F. ALL PROPOSED WATER PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. ALL PROPOSED STORM PIPE BELOW BUILDINGS SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 6" HORIZONTALLY FROM FOUNDATION WALLS.
- H. SANITARY, STORM, AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.1% OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
- I. SITE UTILITY CONTRACTOR SHALL RUN SANITARY SERVICE TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE CENTER LINE OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN STORM SEWER FOR INTERNALLY DRAINING BUILDINGS TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 6" ABOVE CENTER GRADE FOR CONNECTION TO DOWNSPOUT FOR ALL DOWNSPOUT TO RESE (DS) CONNECTIONS. DOWNSPOUTS TO GRADE GDS SHALL BE PROVIDED WITH FLASH BLOCS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUTS. CONTRACTOR/ENGINEER PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERGIRD BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
- J. ALL UTILITIES SHALL BE INITIALLY WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SLID COPPER, OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPED TO WATER TRACER OR SEWER PIPE. IF ATTACHED, THE TRACER SHALL BE SECURED EVERY 10 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL STATE REQUIREMENTS.
- K. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED TO INSTALL SANITARY AND STORM SEWER. SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.

SHOP DRAWING SUBMITTALS

MATERIAL / INFORMATION

- 31.10.00 - TELEVEYING REPORTS OF EXISTING LATERALS
 - STORM
 - SANITARY
- 31.20.00 - FILL
 - PRODUCT DATA
 - SOURCE MATERIAL
- 32.10.00 (A) - AGGREGATE BASE & ASPHALT PAVEMENT
 - HOT MIX ASPHALT SPECIFICATIONS
 - AGGREGATE BASE
 - PAVEMENT MARKINGS
- 32.20.00-CONCRETE AND AGGREGATE BASE
 - DESIGN MIX
 - AGGREGATE BASE
 - COMPRESSION TEST RESULTS
 - PAVEMENT MARKINGS
- 32.30.00 LANDSCAPING
 - AMENDED SOIL MIX
 - SEEDING PRODUCT DATA
 - SOD PRODUCT DATA
 - PLANTING SUBSTITUTION SCHEDULE
 - MULCH PRODUCT DATA
 - EROSION MATTING
 - IRRIGATION CONTROL PRODUCT DATA
 - IRRIGATION LAYOUT
- 33.10.00 - SITE UTILITIES
 - SANITARY & STORM MANHOLES
 - SANITARY PIPING MATERIALS
 - SEDIMENT TRAP SHOP DRAWINGS
 - WATER PIPING MATERIALS
 - WATER FITTINGS & APPURTENANCES
 - STORM PIPING MATERIALS
- MISCELLANEOUS ITEMS
 - FENCING
 - SITE LIGHTING
 - EXTERIOR SIGNAGE
 - BOLLARDS

PROFESSIONAL SEAL

PRELIMINARY DATES

JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

JOB NUMBER

240174100

SHEET NUMBER

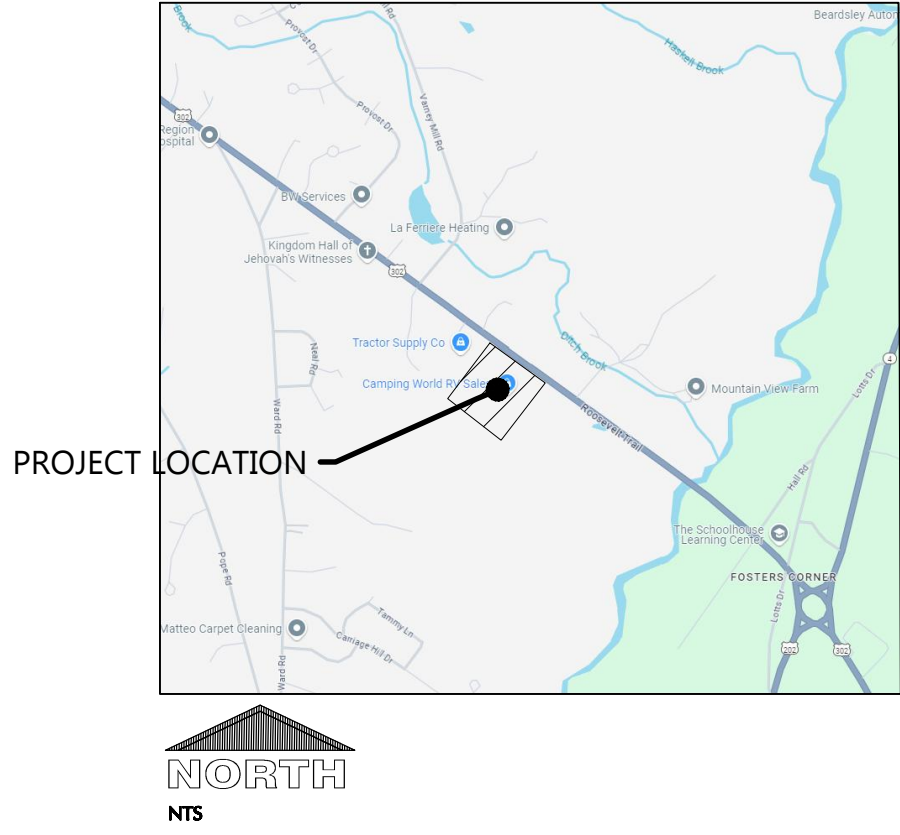
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CONSTRUCTION SEQUENCE

PHASE	TYPE OF ACTION
1. PRE-CONSTRUCTION ACTION	1. CONTRACTOR TO CALL DIG SAFE AT A MINIMUM OF 3 DAYS PRIOR TO CONSTRUCTION. 2. CONTRACTOR TO FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF DISCREPANCIES. 3. CONTRACTOR TO MAKE SURE THE FILTER BASINS AND WET POND INSPECTION REPORT ISSUES HAVE BEEN RECTIFIED. PLACE ALL SILT FENCE AND INLET PROTECTION. 4. CONSTRUCT TRACKING STONE ENTRANCES AND ANY TEMPORARY CONSTRUCTION ROADWAYS AS NEEDED. 5. CONSTRUCT PERMANENT STORMWATER CONVEYANCE SYSTEMS. 6. CONSTRUCT TEMPORARY SEDIMENT TRAPS, SEDIMENT BASINS, AND ANY TEMPORARY STORMWATER CONVEYANCE SYSTEMS AS NEEDED. 7. STABILIZE ALL TEMPORARY AND PERMANENT EROSION CONTROL AND STORMWATER CONVEYANCE SYSTEMS BEFORE TOPSOIL CAN BE STRIPPED.
2. CONSTRUCTION ACTION	1. SITE DEMOLITION AS REQUIRED. 2. STRIP AND RELOCATE TOPSOIL TO THE DESIGNATED TOPSOIL STOCKPILE LOCATION



LOCATION MAP



SITE INFORMATION:

TAX MAP 15, LOT 1A
PROPERTY AREA: 16.85 ACRES



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100 Camelot Drive
Fond du Lac, WI 54935
920-926-9800
excelengineer.com

COLLABORATION



2700 National Drive, Suite 101
Oronoke, Wisconsin, 54850
608-881-6007
www.DBSG.com

PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES

MAR. 14, 2025

JOB NUMBER

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SHEET NUMBER

EC



EXISTING CONDITIONS PLAN



- GENERAL NOTES:
- EXISTING CONDITIONS SURVEY COMPLETED BY SURVEY, INC. IN SEPTEMBER OF 2024.
 - CONTRACTOR TO CALL DIG SAFE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION.

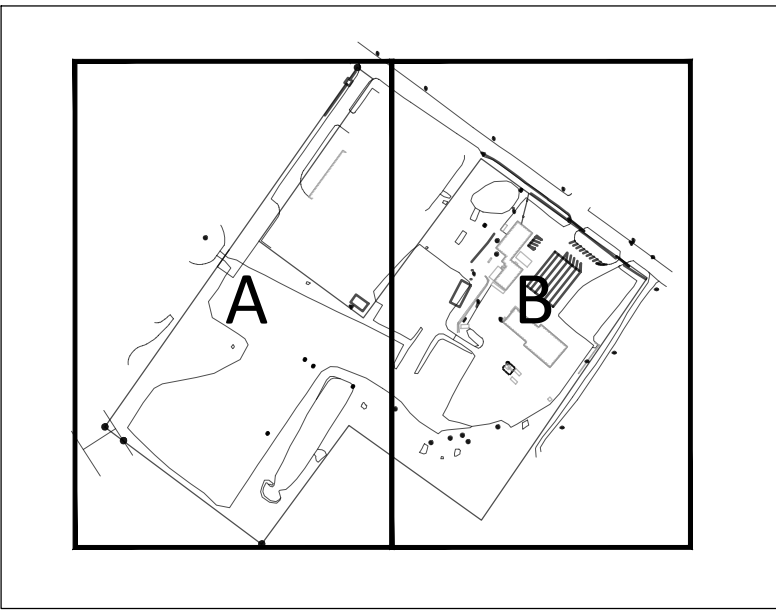
- LEGEND:
- REMOVE PAVEMENT/GRAVEL, SALVAGE BASE IF AGGREGATE MEETS SPECIFICATIONS
 - REMOVE PAVEMENT/3" GRAVEL SURFACE, PROTECT AGGREGATE BASE (REDEVELOPMENT AREAS)
 - REMOVE FEATURES
 - ALTERNATE 1 - REMOVE 3" OF GRAVEL, PROTECT BASE FOR PAVING

KEYNOTES	
A	REMOVE
B	PROTECT
C	PULVERIZE ASPHALT IN PLACE AND RE-USE FOR BASE
D	SAWCUT (AS NECESSARY) AND REMOVE ASPHALT AND PROTECT BASE
E	REMOVE UTILITY POLE AND OVERHEAD LINE. COORDINATE WITH UTILITY COMPANY.
F	PROTECT STORMWATER MANAGEMENT FACILITY
G	CONTRACTOR TO PROVIDE TRAFFIC CONTROL DURING DEMOLITION/CONSTRUCTION
H	REMOVE TREE
I	PROTECT TREE
J	REMOVE STORM PIPING AND STRUCTURE
K	REMOVE LIGHT POLE
M	RECYCLE GRAVEL AS NEEDED
R	FIELD VERIFY AND COORDINATE REMOVAL OF SEPTIC WITH GENERAL CONTRACTOR AND OWNER PRIOR TO DEMOLITION
S	CONTRACTOR TO MAINTAIN 18" COVER DURING EXCAVATION & VERIFY DEPTH OF FACILITIES DURING EXCAVATION.
T	PROTECT SEPTIC DISPOSAL FIELD. LIMIT DISTURBANCE AND COMPACTION IN ADJACENT AREAS. INSTALL CONSTRUCTION FENCE AROUND PERIMETER OF SEPTIC DISPOSAL FIELD DURING CONSTRUCTION.
U	PROTECT AND REUSE EXISTING PROPANE TANK. COORDINATE WITH CONTRACTOR. SEE SITE PLAN FOR NEW LOCATION
W	REMOVE FENCE
X	REMOVE RETAINING WALL
Y	FIELD VERIFY/TELEWISE AND NOTIFY ENGINEER OF PIPE TERMINUS
Z	RETIRED EXISTING 1" WATER SERVICE PER PORTLAND WATER DISTRICT STANDARDS. SHUT OFF CORPORATION STOP. CUT WATER SERVICE AT WATER MAIN, AND REMOVE BOX AND ROD AT STREET LINE.

- STAGING/SEQUENCING NOTES:
- EXISTING OPERATIONS TO REMAIN DURING CONSTRUCTION.
 - PROVIDE ACCESS TO SITE OPERATIONS AT ALL TIMES DURING CONSTRUCTION.
 - COORDINATE SEQUENCING OF DEMOLITION WORK WITH GENERAL CONTRACTOR AND OWNER PRIOR TO BEGINNING DEMOLITION.

SURVEY LEGEND

- MD MANDOOR 30" WIDE
GD GARAGE DOOR 14" WIDE
UP UTILITY POLE
CPP CORROGATED PLASTIC PIPE
CMP CORROGATED METAL PIPE
INV INVERT
CONTROL POINT



KEY PLAN
NTS



CIVIL EXISTING SITE AND DEMOLITION PLAN - OVERALL

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Fond du Lac, WI 54935
920-926-9800
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PROFESSIONAL SEAL

PRELIMINARY DATES
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FEB. 18, 2025
MAR. 14, 2025

NOT FOR CONSTRUCTION

JOB NUMBER
240174100

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LEGEND:	
	REMOVE PAVEMENT/GRAVEL SALVAGE BASE IF AGGREGATE MEETS SPECIFICATIONS
	REMOVE PAVEMENT/3" GRAVEL SURFACE, PROTECT AGGREGATE BASE (REDEVELOPMENT AREAS)
	REMOVE FEATURES
	ALTERNATE 1 - REMOVE 3" OF GRAVEL, PROTECT BASE FOR PAVING

- GENERAL NOTES:
- EXISTING CONDITIONS SURVEY COMPLETED BY SURVEY, INC. IN SEPTEMBER OF 2024.
 - CONTRACTOR TO CALL DIG SAFE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION.
- STAGING/SEQUENCING NOTES:
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INV INVERT
- CONTROL POINT

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PROFESSIONAL SEAL

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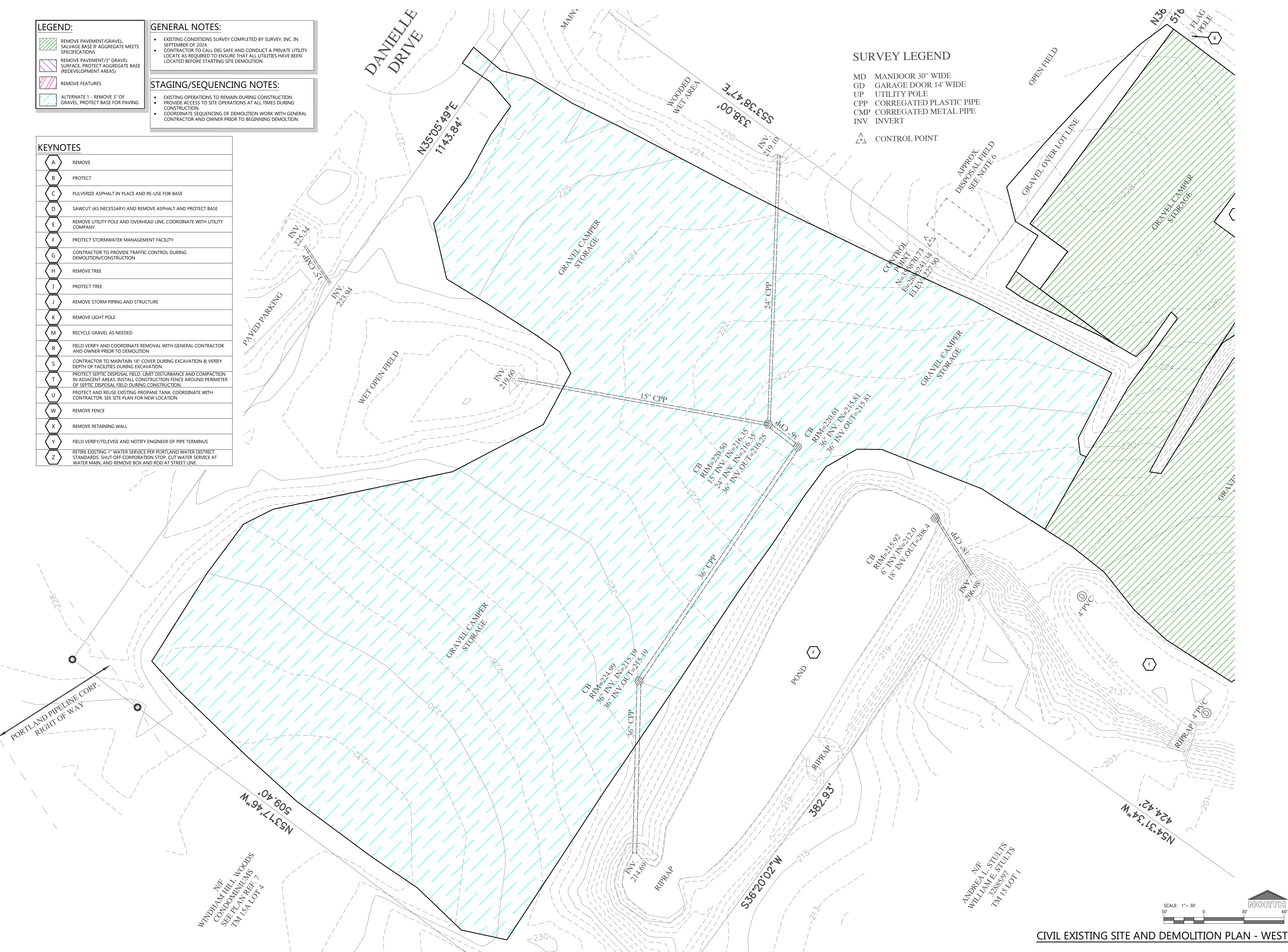
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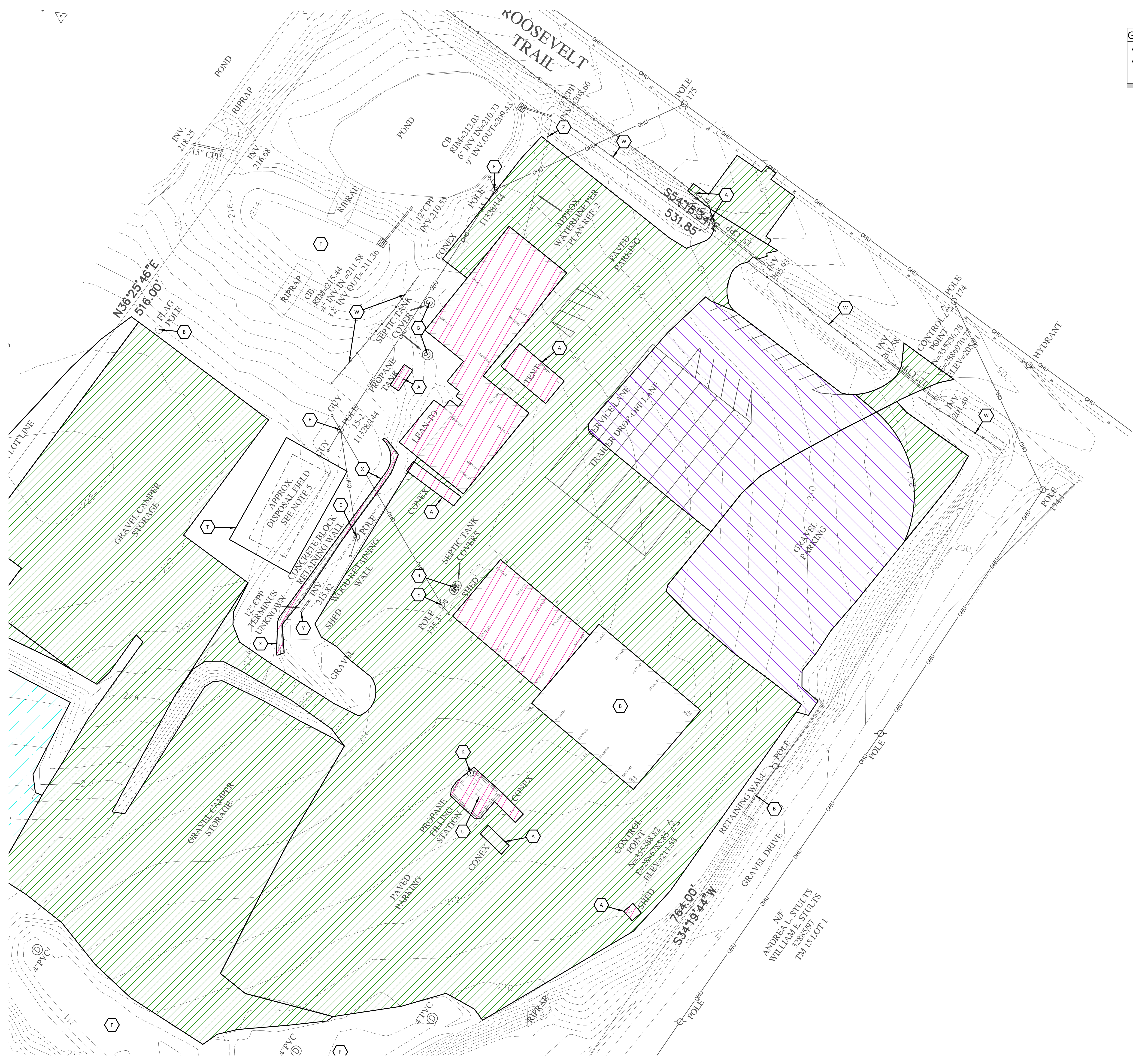
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SHEET NUMBER

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CIVIL EXISTING SITE AND DEMOLITION PLAN - WEST



- GENERAL NOTES:**
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R	FIELD VERIFY AND COORDINATE REMOVAL WITH GENERAL CONTRACTOR AND OWNER PRIOR TO DEMOLITION
S	CONTRACTOR TO MAINTAIN 18" COVER DURING EXCAVATION & VERIFY DEPTH OF FACILITIES DURING EXCAVATION.
T	PROTECT SEPTIC DISPOSAL FIELD. LIMIT DISTURBANCE AND COMPACTION IN ADJACENT AREAS. INSTALL CONSTRUCTION FENCE AROUND PERIMETER OF SEPTIC DISPOSAL FIELD DURING CONSTRUCTION.
U	PROTECT AND REUSE EXISTING PROPANE TANK. COORDINATE WITH CONTRACTOR. SEE SITE PLAN FOR NEW LOCATION
W	REMOVE FENCE
X	REMOVE RETAINING WALL
Y	FIELD VERIFY/TELEWISE AND NOTIFY ENGINEER OF PIPE TERMINUS
Z	RETIRE EXISTING 1" WATER SERVICE PER PORTLAND WATER DISTRICT STANDARDS. SHUT OFF CORPORATION STOP, CUT WATER SERVICE AT WATER MAIN, AND REMOVE BOX AND ROD AT STREET LINE.

- STAGING/SEQUENCING NOTES:**
- EXISTING OPERATIONS TO REMAIN DURING CONSTRUCTION.
 - PROVIDE ACCESS TO SITE OPERATIONS AT ALL TIMES DURING CONSTRUCTION.
 - COORDINATE SEQUENCING OF DEMOLITION WORK WITH GENERAL CONTRACTOR AND OWNER PRIOR TO BEGINNING DEMOLITION.

SURVEY LEGEND

- MD MANDDOOR 30" WIDE
GD GARAGE DOOR 14" WIDE
UP UTILITY POLE
CPP CORROGATED PLASTIC PIPE
CMP CORROGATED METAL PIPE
INV INVERT
△ CONTROL POINT



CIVIL EXISTING SITE AND DEMOLITION PLAN - EAST

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608-881-6007
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PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES
JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

JOB NUMBER
240174100

SHEET NUMBER
C1.0B

NOT FOR CONSTRUCTION

SPACE RESERVED FOR CONDITIONS OF APPROVAL AND APPROVED WAIVERS

APPROVED: TOWN OF WINDHAM PLANNING BOARD

DATE: _____

DATE: _____

DATE: _____

DATE: _____

LEGEND:			
HATCH	PAVEMENT SECTION	HATCH	PAVEMENT SECTION
	STANDARD ASPHALT		HEAVY DUTY CONCRETE
	HEAVY DUTY ASPHALT		DUMPSTER PAD / APRON CONCRETE
	SIDEWALK CONCRETE		SNOW STORAGE AREAS
	LIGHT DUTY CONCRETE		PROVIDE ALTERNATE TO PAVE HEAVY DUTY ASPHALT OVER EXISTING GRAVEL
	INVERTED CURB & GUTTER		SHEDDING CURB & GUTTER

SITE INFORMATION:

PROPERTY AREA: 733,986 S.F. (16.85 ACRES).
TOWN OF WINDHAM TAX MAP 15, LOT 1A
EXISTING ZONING: C-3 COMMERCIAL 3
PROPOSED ZONING: RV SALES
PROPOSED USE: RV SALES AND SERVICE

SETBACKS:
BUILDING: FRONT(NORTH) = 60'
SIDE(EAST) = 10'
REAR(SOUTH) = 10'
STREET(WEST) = 40'

PAVEMENT: FRONT(NORTH) = 5'
SIDE(EAST/WEST) = 5'
REAR(SOUTH) = 5'

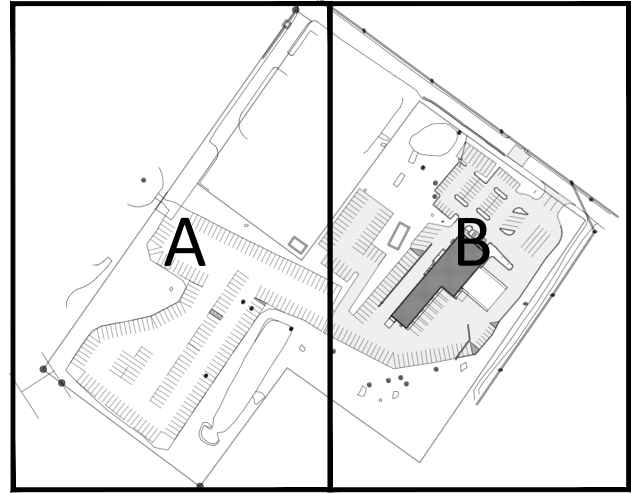
BUFFERYARDS:
FRONT(NORTH) = 15'
REAR(SOUTH) = 50'
STREET(WEST) = 40'

PARKING PROVIDED: 60 SPACES (3 H.C. ACCESSIBLE)
301 ALLOCATED RV UNIT SPACES

HANDICAP STALLS REQUIRED: 3, HANDICAP STALLS PROVIDED: 3

DISTURBED AREA: 253,520 S.F. (5.82 ACRES)

KEYNOTES	
1	CONCRETE STOOP (SEE STRUCTURAL DETAILS)
2	RAISED WALK (SEE DETAIL)
3	FLUSH WALK (SEE DETAIL)
4	TAPER WALK 0" TO 6" IN 10"
6	ADA CURB RAMP (SEE DETAIL)
7	18" CURB & GUTTER (SEE DETAIL)
8	18" MOUNTABLE CURB & GUTTER (SEE DETAIL)
9	CURB TAPER (SEE DETAIL)
10	CURB CUT (SEE DETAIL)
11	CONCRETE TRANSFORMER PAD BY UTILITY SUPPLIER (CONTRACTOR TO VERIFY FINAL LOCATION & DESIGN PRIOR TO CONSTRUCTION)
12	HANDICAP SIGN PER STATE CODE (SEE DETAIL)
13	HANDICAP STALL & STRIPING PER STATE CODES
14	PRECAST CONCRETE WHEEL STOP (TYP.)
15	PYLON SIGN (DETAILS, FINAL LOCATION, & APPROVAL BY SIGN VENDOR)
16	DUMPSTER ENCLOSURE (SEE ARCH. PLANS FOR DETAILS)
17	6" CONCRETE BOLLARDS (SEE DETAIL)
20	BIKE RACK (TYPE AND COLOR BY OWNER)
23	PAINT STRIPING (TYP.)
25	6' HIGH ORNAMENTAL SECURITY FENCE
26	6' HIGH BLACK VINYL CHAINLINK FENCE
27	26' WIDE GATE (14' SLIDING, 12' SWING), 6' HIGH (BY FENCE SUPPLIER)
28	26' WIDE SWING GATE, 6' HIGH (BY FENCE SUPPLIER)
29	COURTESY ISLAND, REUSE EXISTING PROPANE TANK (SEE DEMO PLAN)
33	REPRESENTATIVE RV INVENTORY SPACES (NOT TO BE STRIPED)
34	CUSTOMER AUTOMOBILE PARKING
35	EMPLOYEE AUTOMOBILE PARKING
36	4' WIDE PEDESTRIAN GATE
37	APPROX. BUILDING CANOPY (SEE ARCH. PLANS)
38	24" CONCRETE FLUME (SEE DETAIL)
39	PROPOSED STAIRS (SEE ARCH. PLANS)
40	RETAINING WALL (SEE ARCH. PLANS)
41	CONCRETE EQUIPMENT PAD. VERIFY PAD SIZE WITH CONTRACTOR REQUIRING PAD PRIOR TO CONSTRUCTION.
42	KNOX BOX PER LOCAL FIRE DEPARTMENT REQUIREMENTS



KEY PLAN
NTS



CIVIL SITE PLAN - OVERALL



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PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES

SEPT. 6, 2024
SEPT. 19, 2024
SEPT. 25, 2024
OCT. 1, 2024
DEC. 10, 2024
JAN. 10, 2025
FEB. 12, 2025
FEB. 13, 2025
FEB. 18, 2025
MAR. 14, 2025

NOT FOR CONSTRUCTION

JOB NUMBER

240174100

SHEET NUMBER

C1.1

KEYNOTES	
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27	26' WIDE GATE (14' SLIDING, 12' SWING), 6' HIGH (BY FENCE SUPPLIER)
28	26' WIDE SWING GATE, 6' HIGH (BY FENCE SUPPLIER)
29	COURTESY ISLAND. REUSE EXISTING PROPANE TANK (SEE DEMO PLAN)
33	REPRESENTATIVE RV INVENTORY SPACES (NOT TO BE STRIPEED)
36	4' WIDE PEDESTRIAN GATE
37	APPROX. BUILDING CANOPY (SEE ARCH. PLANS)

38	24" CONCRETE FLUME (SEE DETAIL)
39	PROPOSED STAIRS (SEE ARCH. PLANS)
40	RETAINING WALL (SEE ARCH. PLANS)
41	CONCRETE EQUIPMENT PAD. VERIFY PAD SIZE WITH CONTRACTOR REQUIRING PAD PRIOR TO CONSTRUCTION.
42	KNOX BOX PER LOCAL FIRE DEPARTMENT REQUIREMENTS

LEGEND:			
HATCH	PAVEMENT SECTION	HATCH	PAVEMENT SECTION
	STANDARD ASPHALT		HEAVY DUTY CONCRETE
	HEAVY DUTY ASPHALT		DUMPSTER PAD / APRON CONCRETE
	SIDEWALK CONCRETE		SNOW STORAGE AREAS
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	INVERTED CURB & GUTTER		SHEDDING CURB & GUTTER





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PROJECT INFORMATION

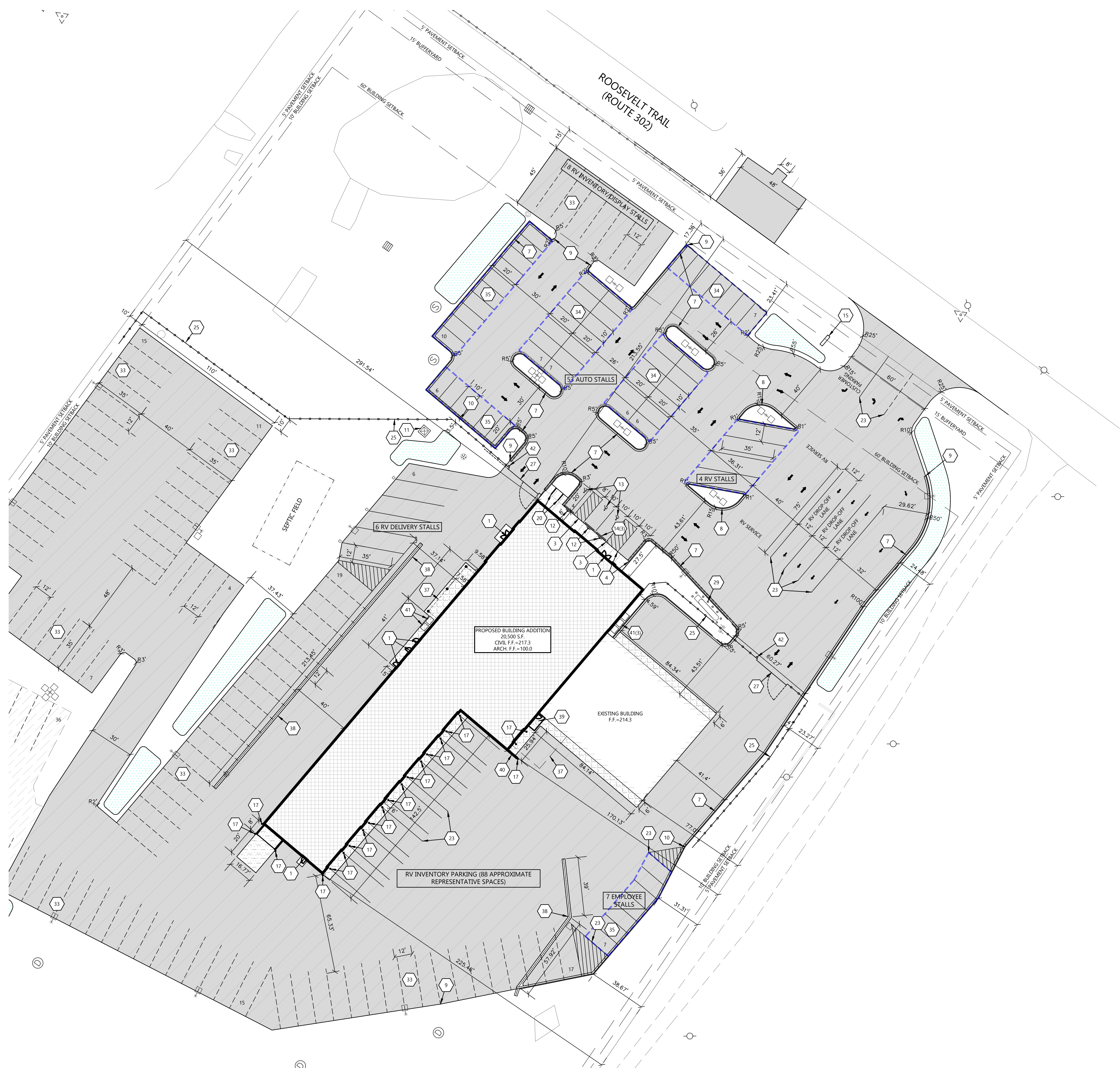
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JAN. 15, 2025	
FEB. 18, 2025	
MAR. 14, 2025	

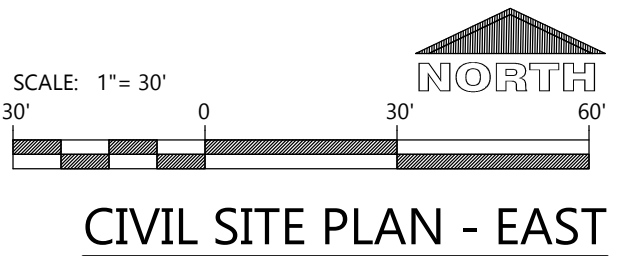
JOB NUMBER
240174100

SHEET NUMBER
C1.1A



LEGEND:			
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	HEAVY DUTY ASPHALT		DUMPSTER PAD / APRON CONCRETE
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FEB. 18, 2025
MAR. 14, 2025

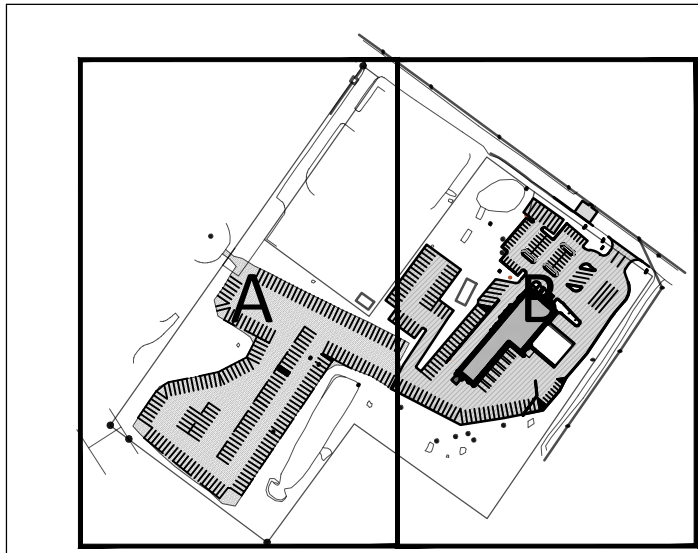
JOB NUMBER
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SHEET NUMBER
C1.1B

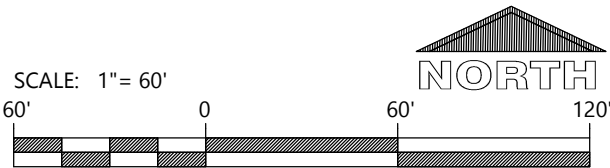
NOT FOR CONSTRUCTION



- GENERAL NOTES:**
- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION)
 - ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
 - CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCE AT CONSTRUCTION ENTRANCE FOR PROPOSED IMPROVEMENTS AS REQUIRED PER CODE.
 - CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS ONSITE & OFFSITE IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.



KEY PLAN
NTS



CIVIL GRADING AND EROSION CONTROL PLAN - OVERALL

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PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES
DEC. 10, 2024
JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

NOT FOR CONSTRUCTION

JOB NUMBER
240174100

SHEET NUMBER

C1.2

GENERAL NOTES:

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KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	CONCRETE WASHOUT
EC 6	SEDIMENT LOG
EC 7	SCOUR STOP





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PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:

CAMPING WORLD

480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES

DEC. 10, 2024
JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

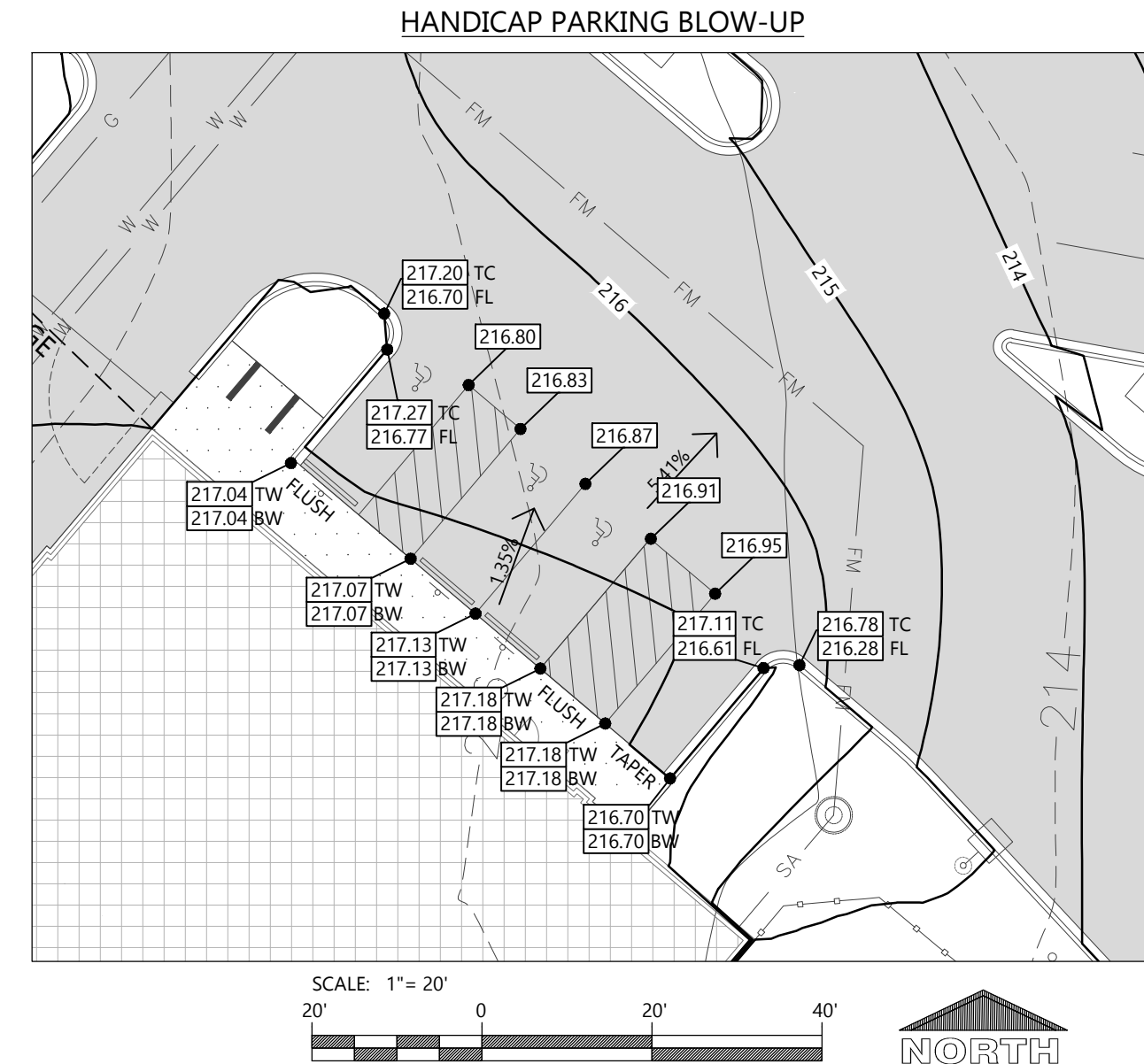
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JOB NUMBER

240174100

SHEET NUMBER

C1.2A



CIVIL GRADING AND EROSION CONTROL PLAN - EAST

- HANDICAP STALL AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 1.50% IN ANY DIRECTION. HANDICAP STALL & ACCESS AISLES SHALL CONFORM TO ADA REQUIREMENTS (CURRENT EDITION)
- ALL SIDEWALKS SHALL NOT EXCEED A MAXIMUM CROSS SLOPE OF 1.50% AND RUNNING SLOPE OF 4.50% UNLESS OTHERWISE SPECIFIED.
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- CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
- CONTRACTOR SHALL PROVIDE TEMPORARY INLET PROTECTION FOR ALL CURB INLETS & CATCH BASINS. INLET & CATCH BASIN SHALL BE DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.

KEYNOTES

EC 1	SILT FENCE
EC 2	DITCH CHECK
EC 3	STABILIZED CONSTRUCTION ENTRANCE
EC 4	INLET PROTECTION
EC 5	CONCRETE WASHOUT
EC 6	SEDIMENT LOG
EC 7	SCOUR STOP



PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES	
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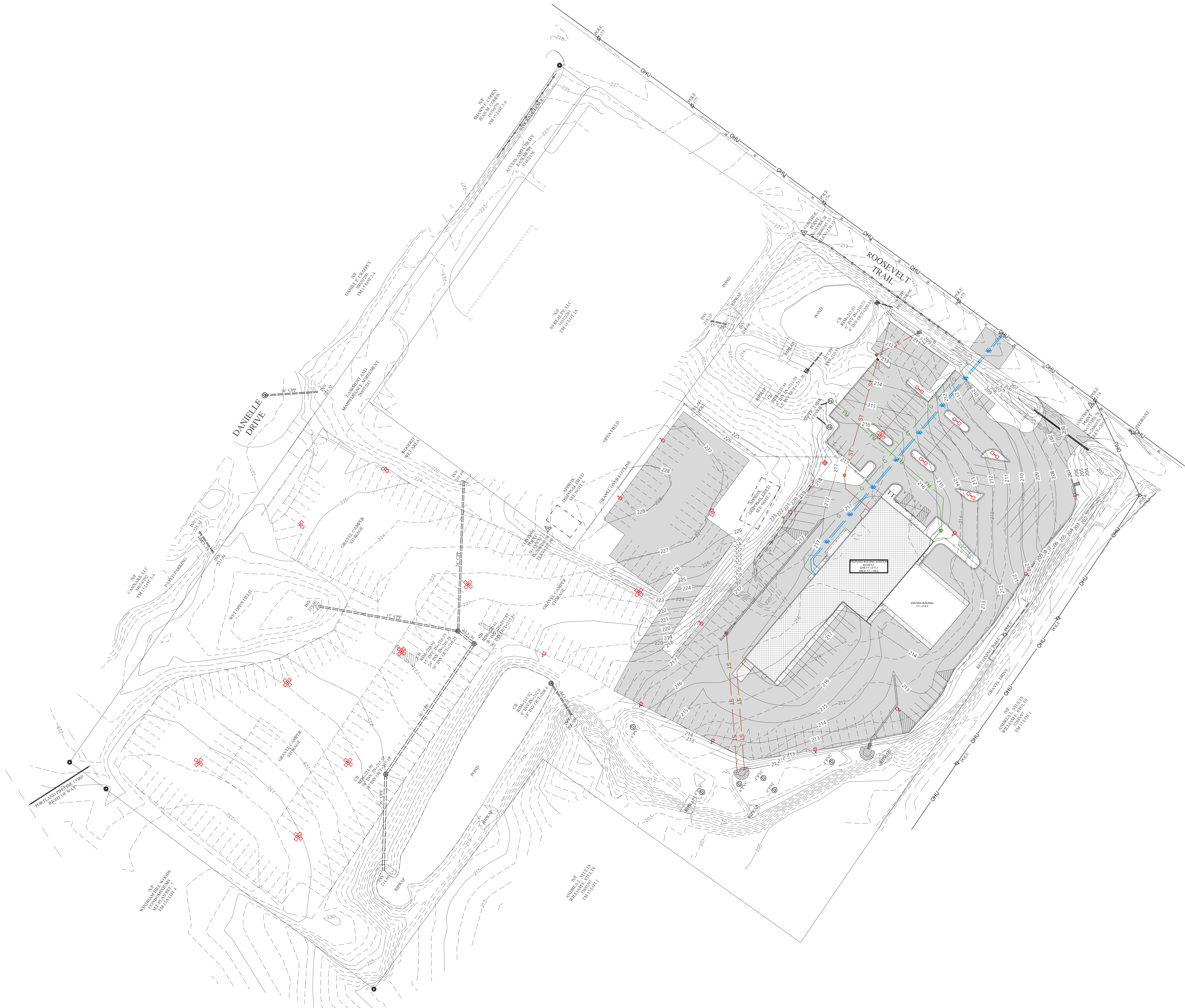
DEC. 10, 2024
JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

JOB NUMBER

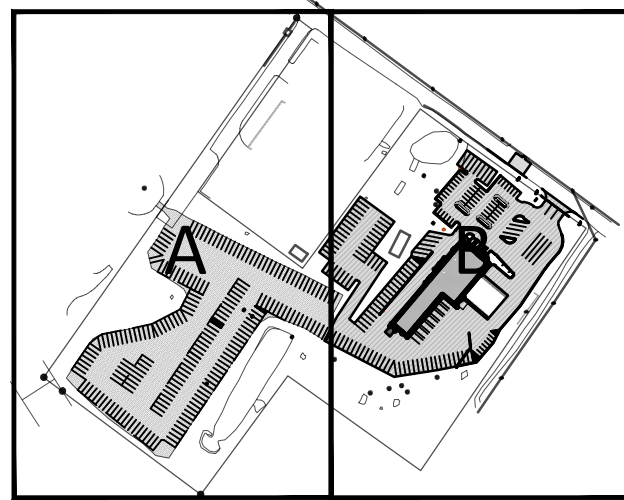
240174100

SHEET NUMBER

C1.2B



CIVIL UTILITY PLAN - OVERALL



KEY PLAN
NTS



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PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES	
OCT. 1, 2024	
OCT. 3, 2024	
OCT. 9, 2024	
JAN. 10, 2025	
FEB. 18, 2025	
MAR. 14, 2025	

NOT FOR CONSTRUCTION

JOB NUMBER
240174100

SHEET NUMBER

C1.3



10 National Drive, Suite 101
Alaska, Wisconsin, 54650
1-881-6007
www.DBSG.com

PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:
CAMPING WORLD
480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

48U ROOSEVELT I RAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

N. 10, 2025
B. 18, 2025
R. 14, 2025

NOT FOR CONSTRUCTION

40174100

C1.3A



CIVIL UTILITY PLAN - WEST



- GENERAL NOTES:**
- CONTRACTOR TO CALL DIG SAFE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION.
 - FIELD VERIFY ALL DOWNSTREAM CONNECTIONS OF PROPOSED UTILITIES PRIOR TO INSTALLATION.
 - PROVIDE POWER TO SEWAGE EJECTOR SE-1. COORDINATE FINAL POWER REQUIREMENTS UPON FINAL SELECTION AND APPROVAL OF PUMPS.

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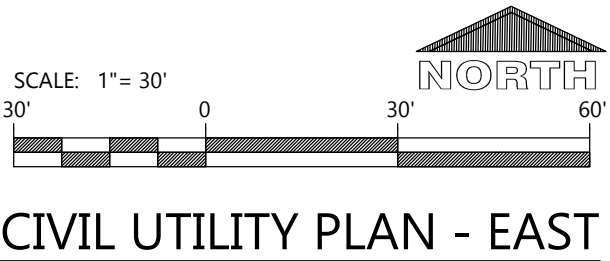
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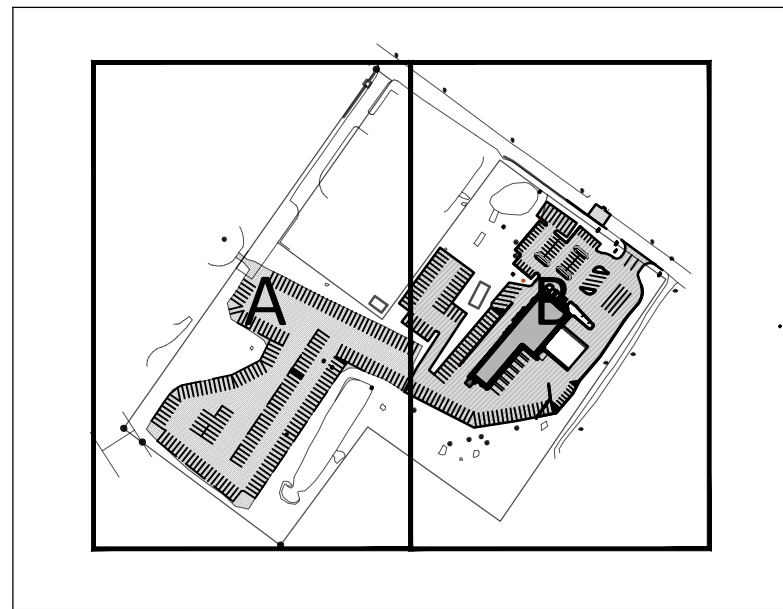
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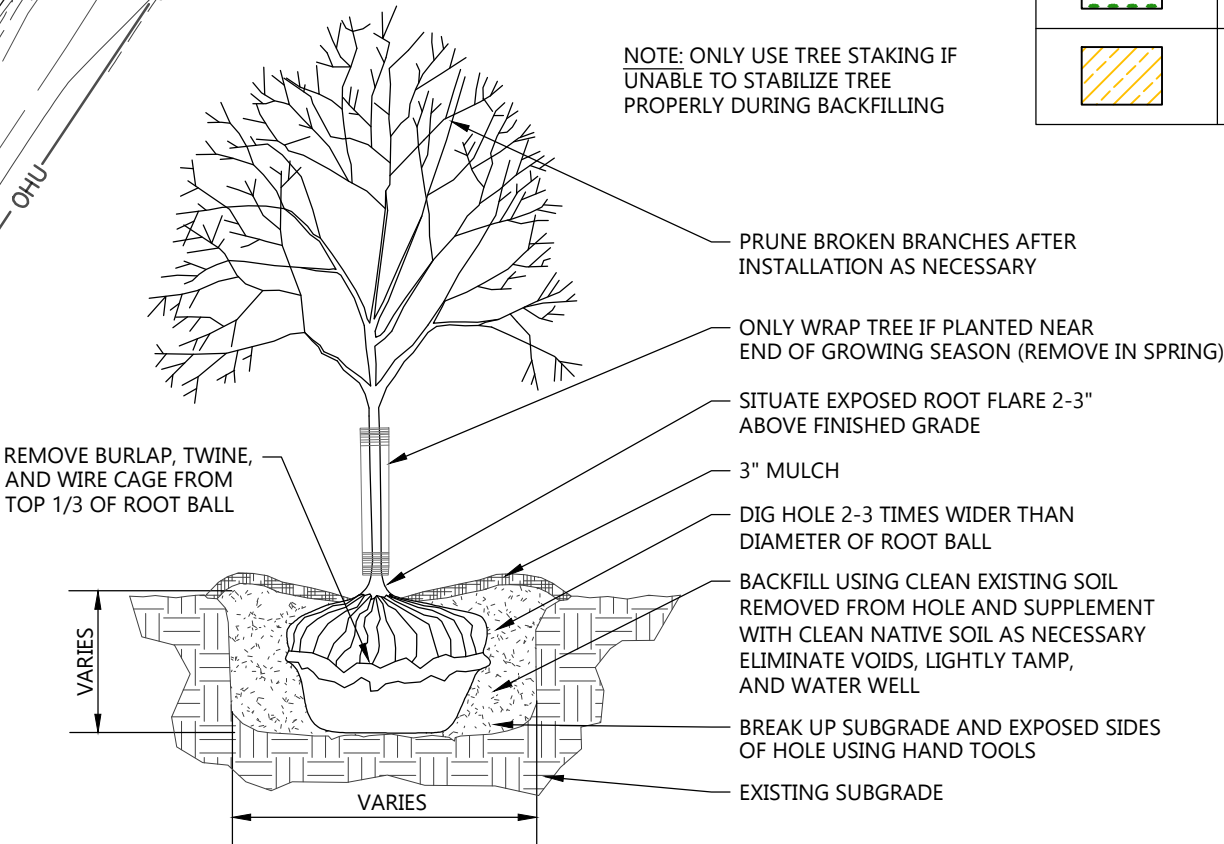


KEY PLAN
NTS

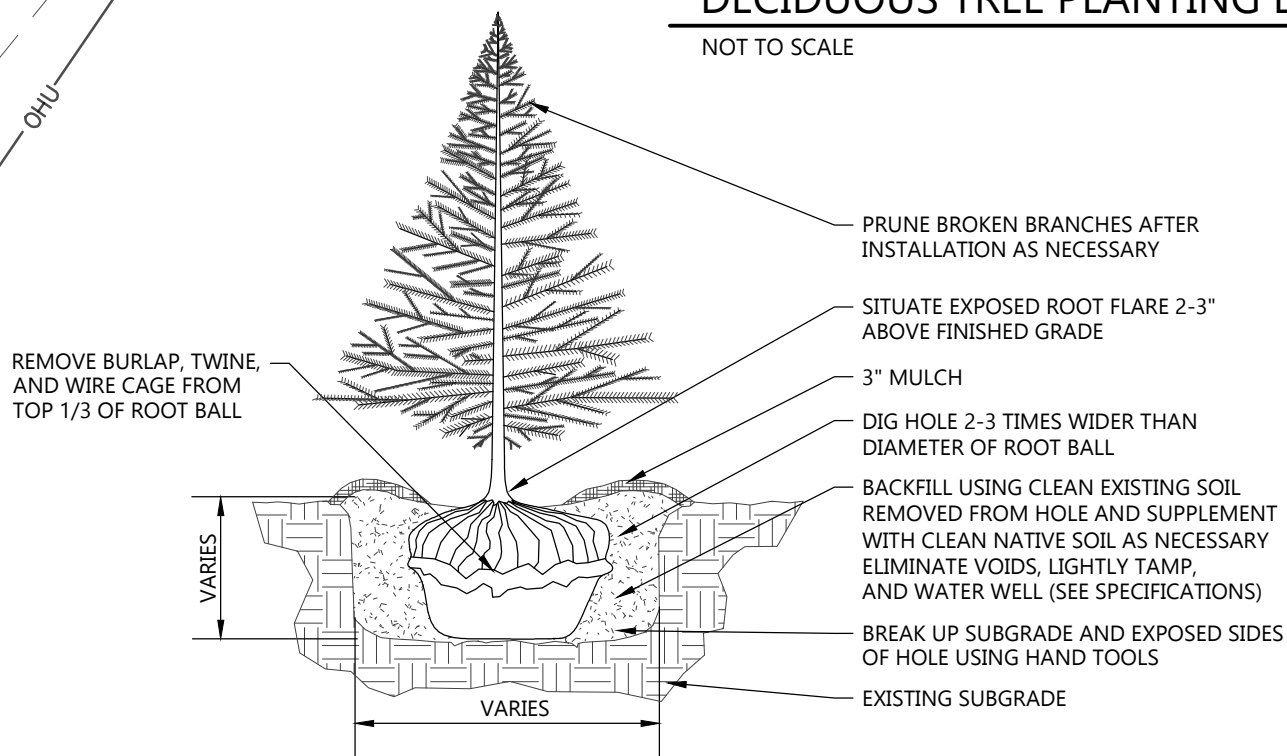
PLANT SCHEDULE					
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	ROOT
OVERSTORY TREES					
	Red Maple	Acer rubrum	5	2" CAL.	B&B
	Redmond Linden	Tilia americana 'Redmond'	12	2" CAL.	B&B
UNDERSTORY TREES					
	Allegheny Serviceberry	Amelanchier laevis	12	2" CAL.	B&B
	White Spruce	Picea glauca	9	6' HT.	B&B
	Technito Arborvitae	Thuja occidentalis 'Ball John'	2	6' HT.	B&B
DECIDUOUS SHRUBS					
	Iroquois Beauty Black Chokeberry	Aronia melanocarpa 'Morton'	18	18" HT.	CONT.
	Kelsey's Dwarf Red-Osier Dogwood	Cornus sericea 'Kelsey'	10	18" HT.	CONT.
	Kodiak Orange bush Honeysuckle	Diervilla x 'GZX88544'	13	24" HT.	CONT.
	Little Quick Fire Hydrangea	Hydrangea paniculata 'SMHPLQF'	4	24" HT.	CONT.
	Little Joker Ninebark	Physocarpus opulifolius 'Hoog021'	14	24" HT.	CONT.
	Snowmound Spirea	Spiraea nipponica 'Snowmound'	12	24" HT.	CONT.
EVERGREEN SHRUBS					
	Old Gold Juniper	Juniperus chinensis 'Old Gold'	13	24" HT.	CONT.
	Green Gem Boxwood	Buxus x 'Green Gem'	10	18" HT.	CONT.
	Everlow Yew	Taxus x media 'Everlow'	13	18" HT.	CONT.
PERENNIALS / ORNAMENTAL GRASSES					
	Pink Crush New England Aster	Aster novae-angliae 'Pink Crush'	30	1 GAL.	POT
	Standing Ovation Little Bluestem	Schizacryrium scoparium 'Standing Ovation'	27	1 GAL.	POT

LANDSCAPING CALCULATIONS		
ZONE	REQ. PLANTS	PLANTS PROVIDED
PARKING LOT	57,289 SF PARKING LOT AREA x 15% 57,289 x .15 = 8,593 SF LANDSCAPED AREA	8,851 SF LANDSCAPED AREA
FRONT BUFFER YARD	370' OF FRONTAGE /100' = 3.7 PER 100 LF OF FRONTAGE 1.2 CANOPY TREES x 3.7 = 4.44 TREES 0.4 UNDERSTORY TREES x 3.7 = 1.48 TREES 4 SHRUBS x 3.7 = 14.8 SHRUBS	5 CANOPY TREES 2 UNDERSTORY TREES 33 SHRUBS

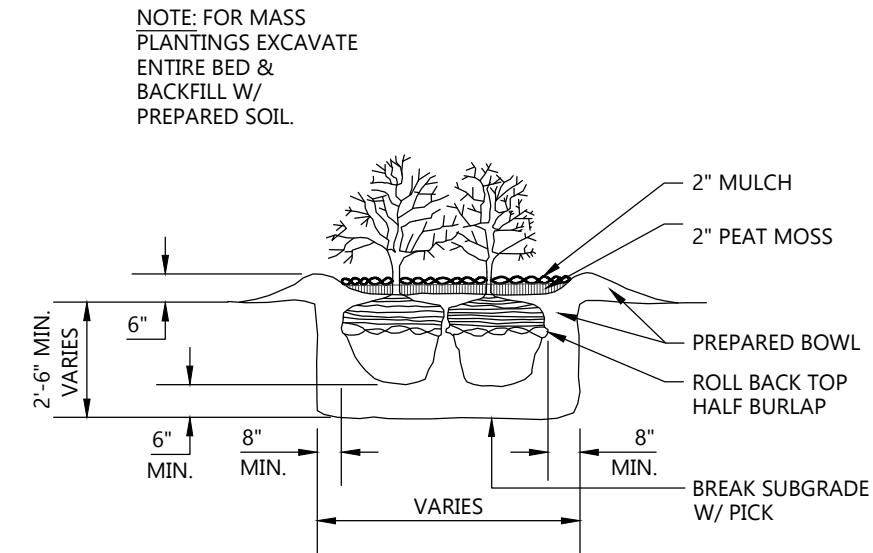
HATCH KEY:	
HATCH	LANDSCAPE MATERIAL
	MINERAL MULCH
	SEEDED LAWN
	EROSION MATTING (NAG S150) OVER SEEDED LAWN (> OR = 4:1 SLOPES OUTSIDE OF SWM)



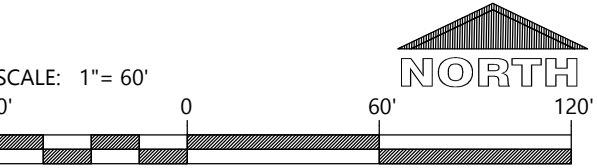
DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE



SHRUB PLANTING DETAIL
NOT TO SCALE



PROJECT INFORMATION

PROPOSED RETAIL & SERVICE EXPANSION FOR:

CAMPING WORLD

480 ROOSEVELT TRAIL • WINDHAM, MAINE 04062

PROFESSIONAL SEAL

PRELIMINARY DATES

JAN. 10, 2025
FEB. 18, 2025
MAR. 14, 2025

JOB NUMBER

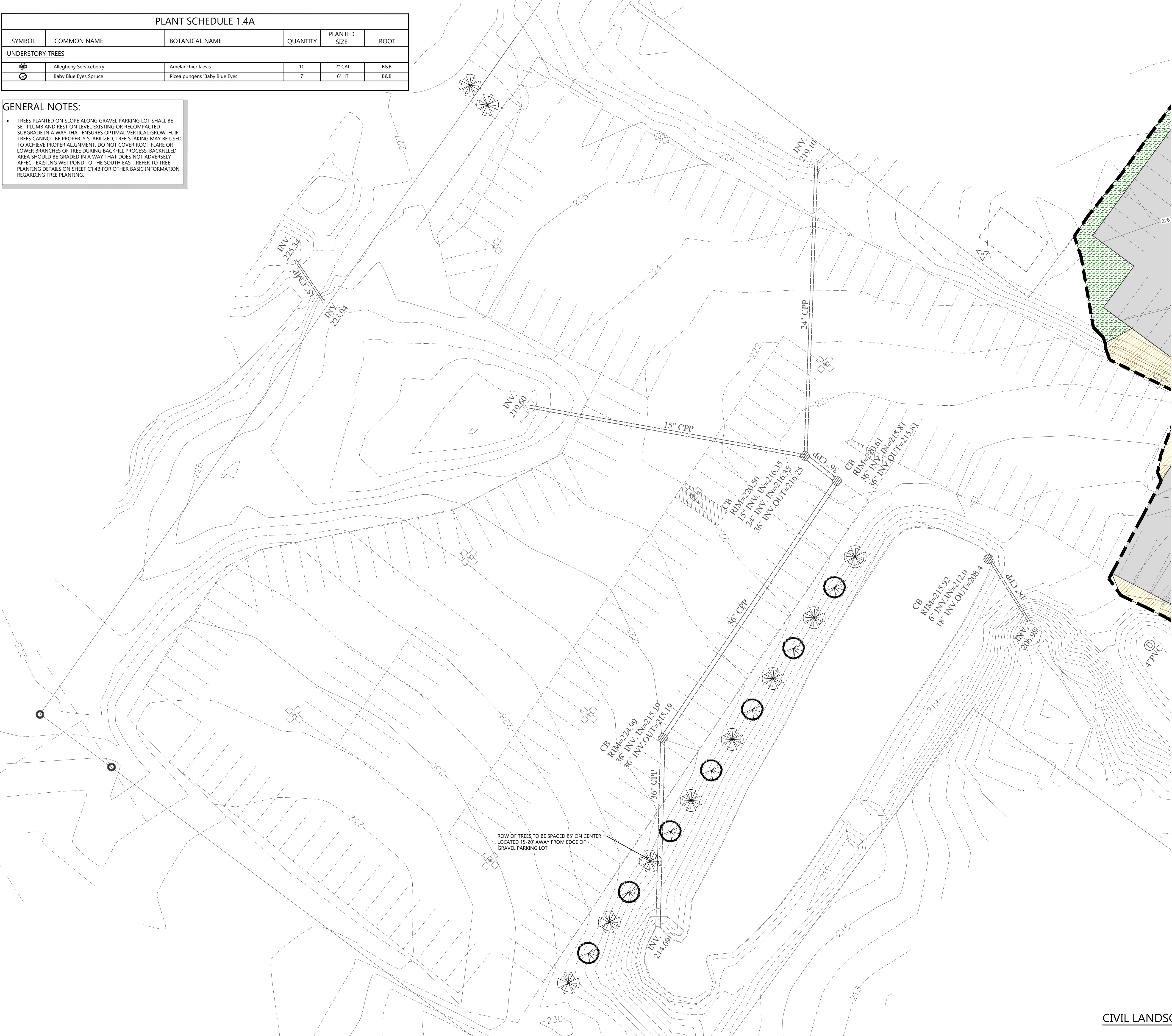
240174100

SHEET NUMBER

PLANT SCHEDULE 1.4A					
SYMBOL	COMMON NAME	BOTANICAL NAME	QUANTITY	PLANTED SIZE	ROOT
UNDERSTORY TREES					
	Allegheny Serviceberry	Amelanchier laevis	10	2" CAL.	B&B
	Baby Blue Eyes Spruce	Picea pungens 'Baby Blue Eyes'	7	6' HT.	B&B

GENERAL NOTES:

- TREES PLANTED ON SLOPE ALONG GRAVEL PARKING LOT SHALL BE SET PLUMB AND REST ON LEVEL EXISTING OR RECOMPACTED SUBGRADE IN A WAY THAT ENSURES OPTIMAL VERTICAL GROWTH. IF TREES CANNOT BE PROPERLY STABILIZED, TREE STAKING MAY BE USED TO ACHIEVE PROPER ALIGNMENT. DO NOT COVER ROOT FLARE OR LOWER BRANCHES OF TREE DURING BACKFILL PROCESS. BACKFILLED AREA SHOULD BE GRADED IN A WAY THAT DOES NOT ADVERSELY AFFECT EXISTING WET POND TO THE SOUTH EAST. REFER TO TREE PLANTING DETAILS ON SHEET C1.4B FOR OTHER BASIC INFORMATION REGARDING TREE PLANTING.



HATCH KEY:	
HATCH	LANDSCAPE MATERIAL
	MINERAL MULCH
	SEEDED LAWN
	EROSION MATTING (NAG S150) OVER SEEDED LAWN (> CR = 4:1 SLOPES OUTSIDE OF SWM)



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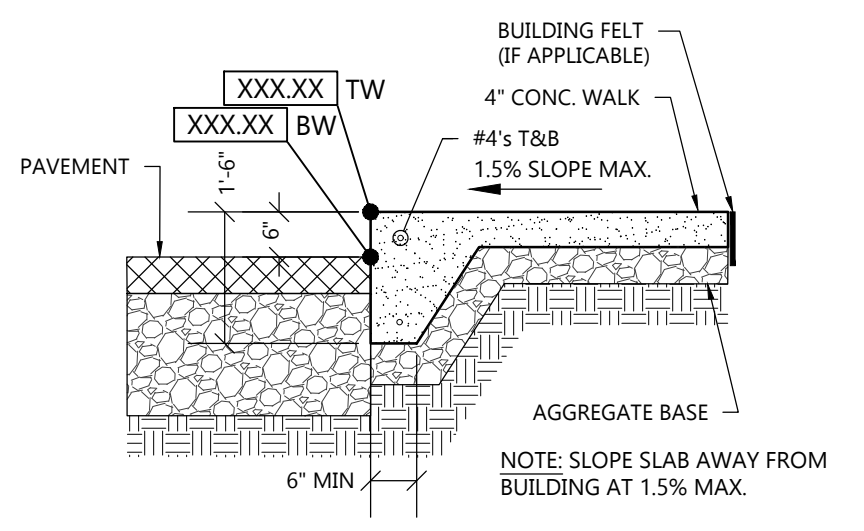
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C1.4A

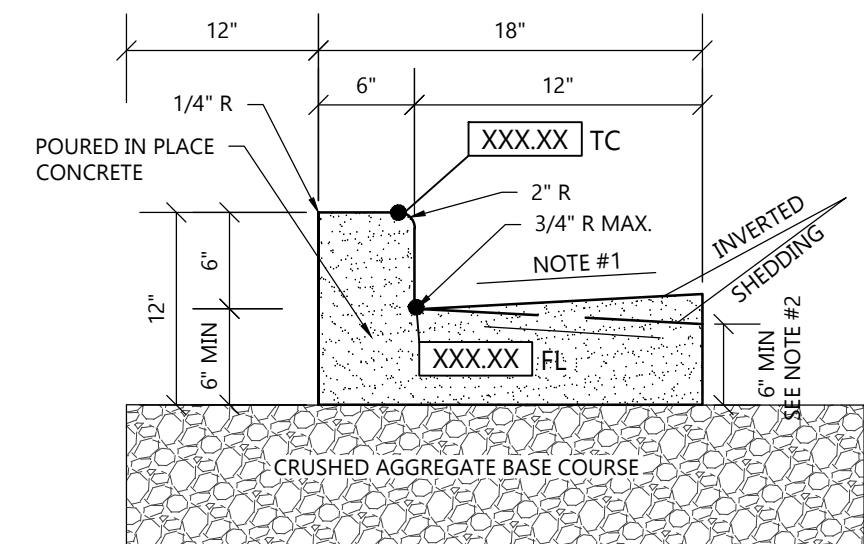


CIVIL LANDSCAPE AND RESTORATION PLAN - WEST



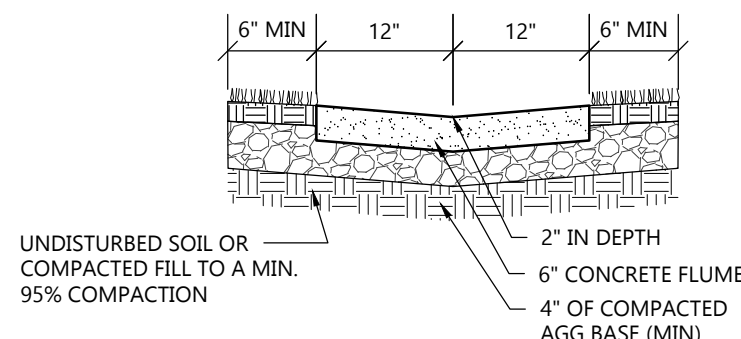


RAISED WALK DETAIL
NOT TO SCALE

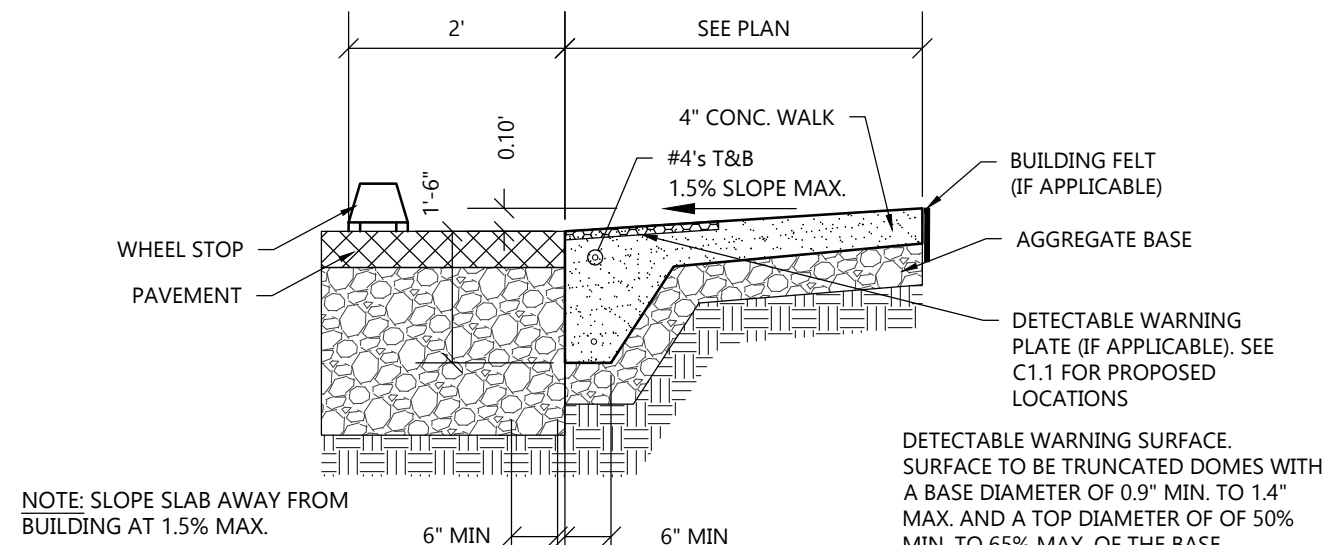


- NOTE:
- USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
 - THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MIN. GUTTER THICKNESS IS MAINTAINED.
 - SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS

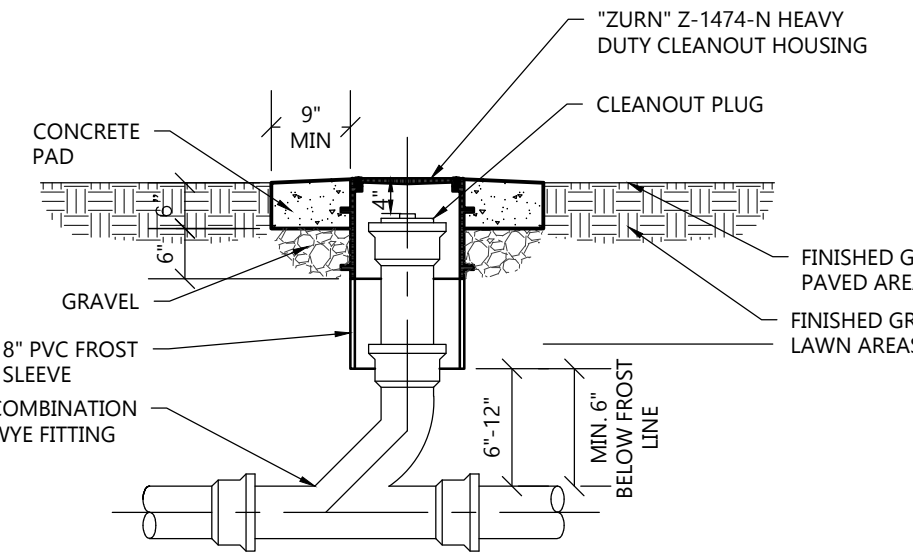
18" CONCRETE CURB & GUTTER DETAIL
NOT TO SCALE



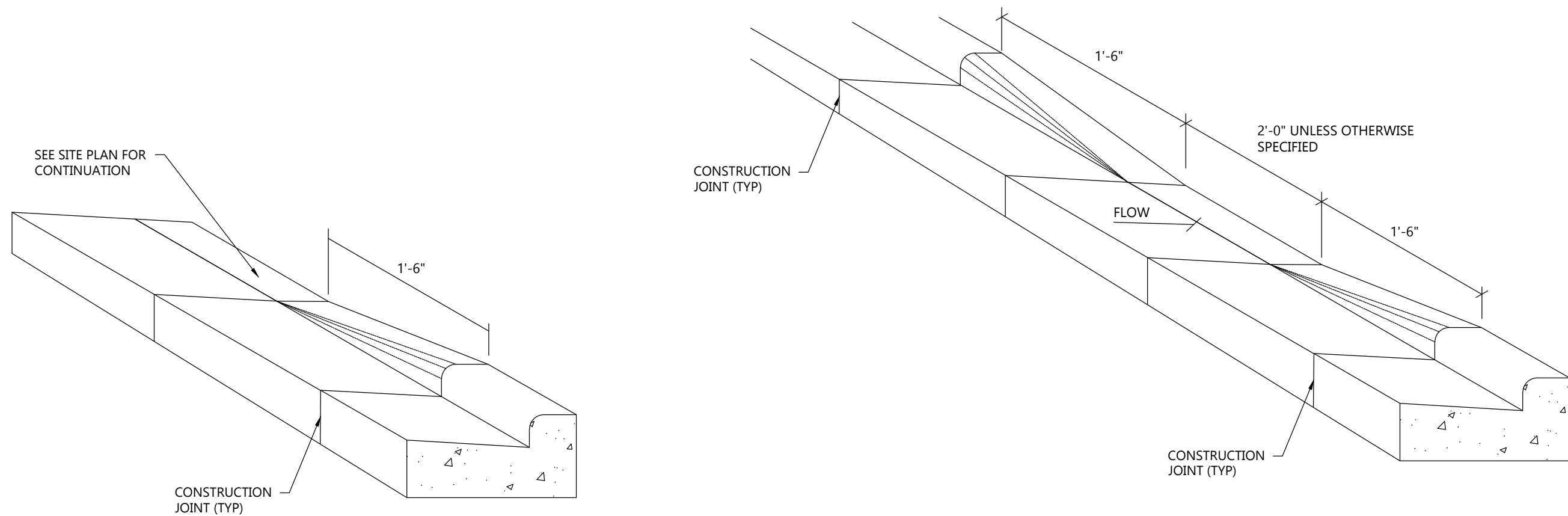
CONCRETE FLUME DETAIL (LAWN)
NOT TO SCALE



FLUSH WALK DETAIL
NOT TO SCALE

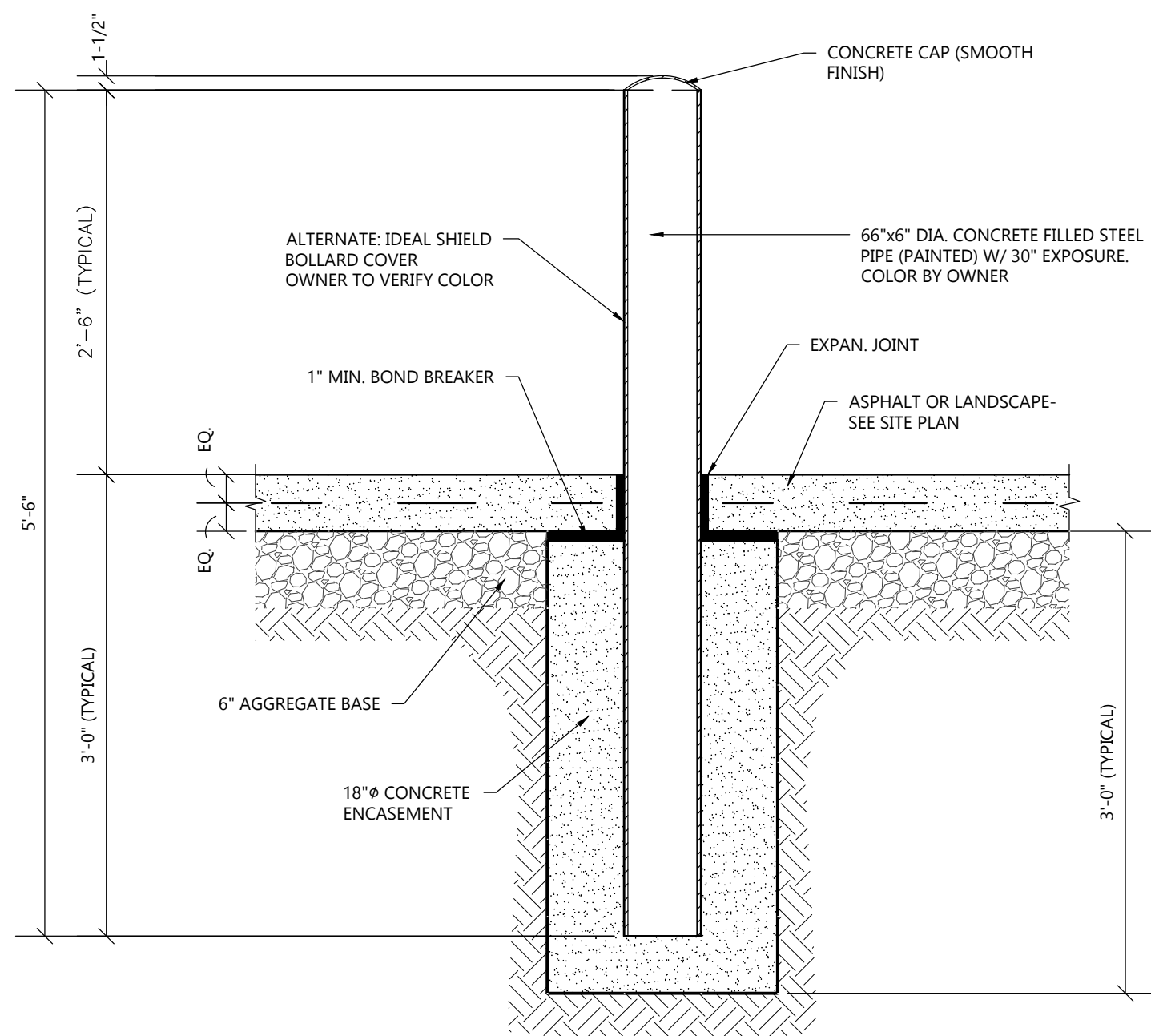


CLEANOUT TO GRADE DETAIL
NOT TO SCALE

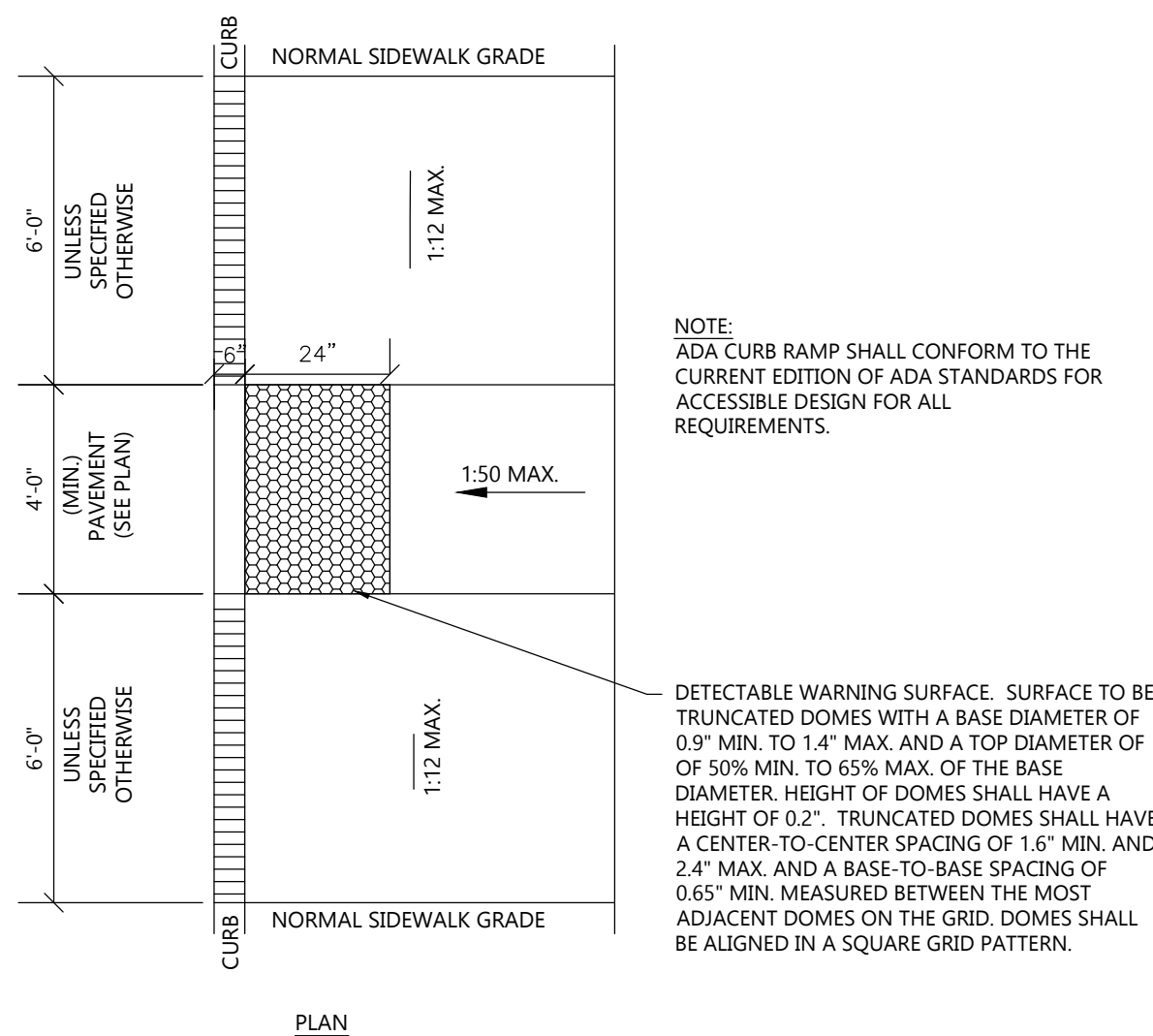


CURB CUT DETAIL
NOT TO SCALE

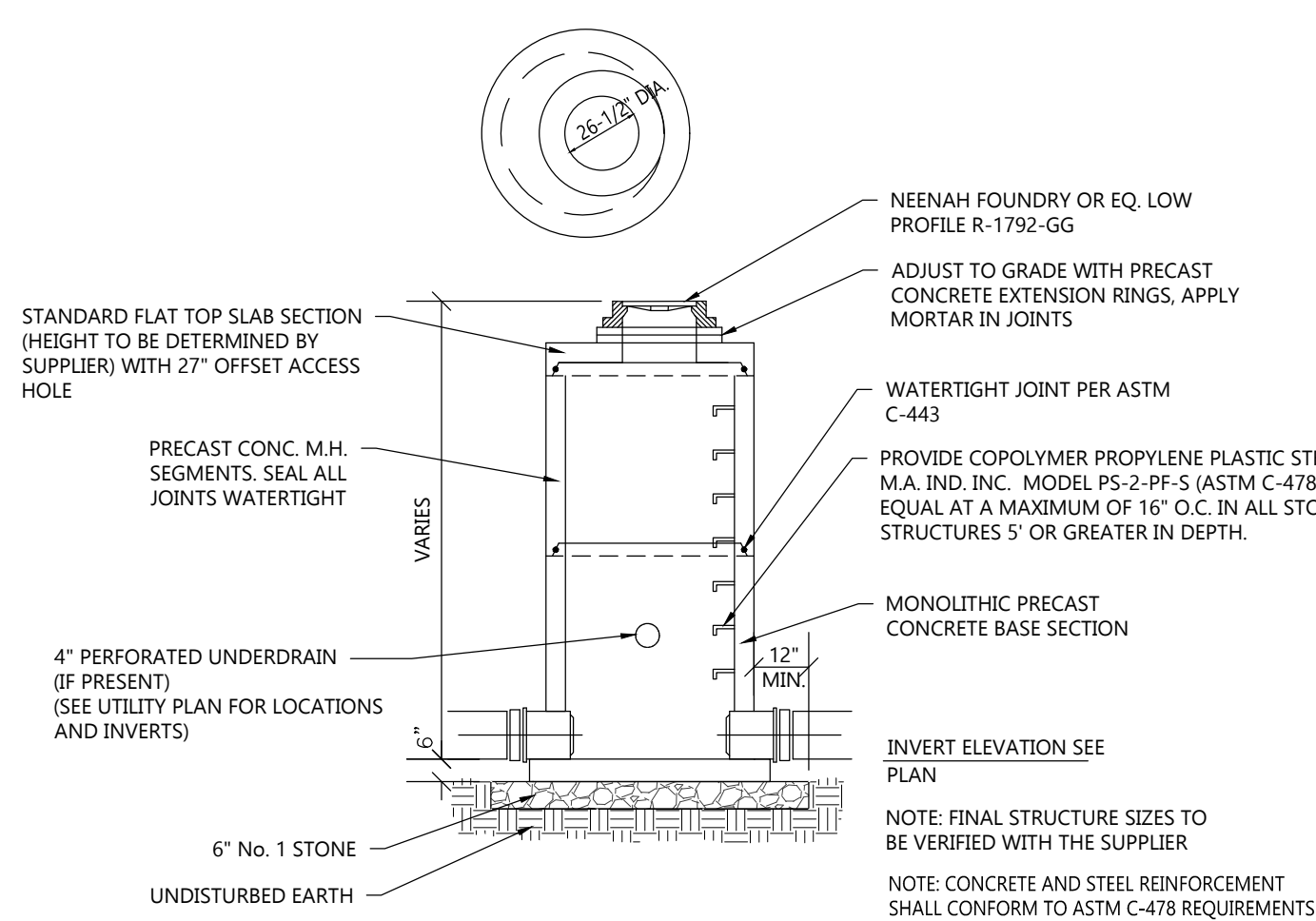
CURB TAPER DETAIL
NOT TO SCALE



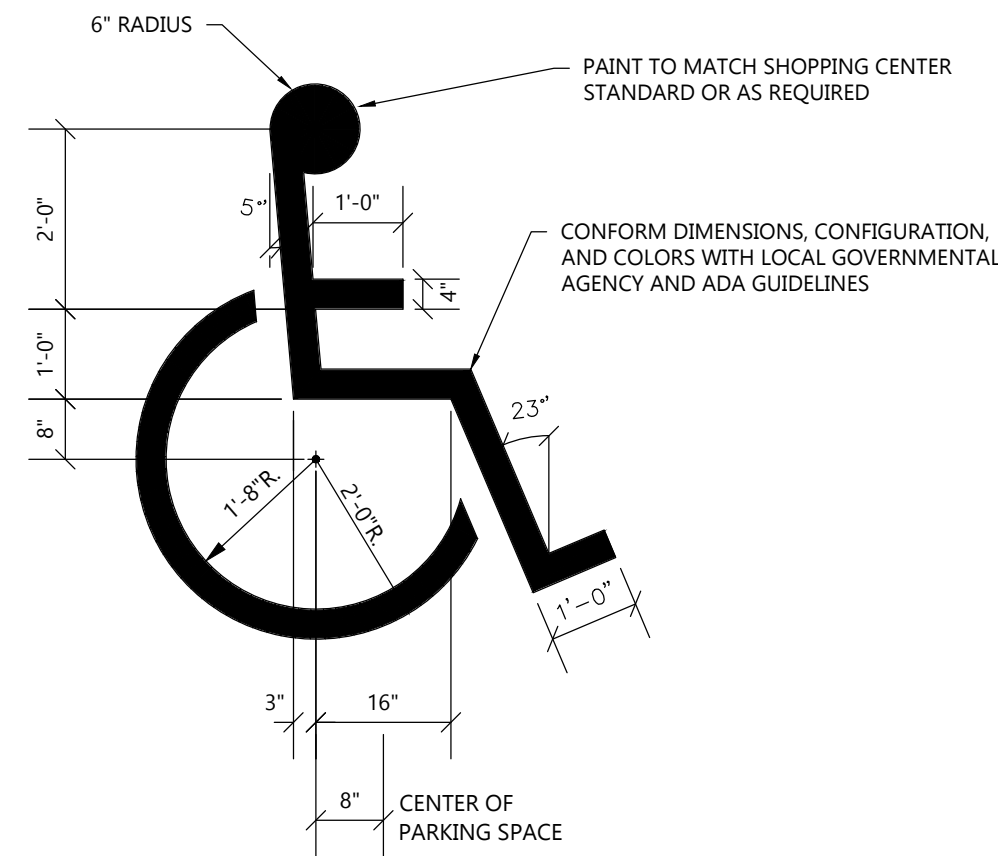
6" PIPE BOLLARD DETAIL
NOT TO SCALE



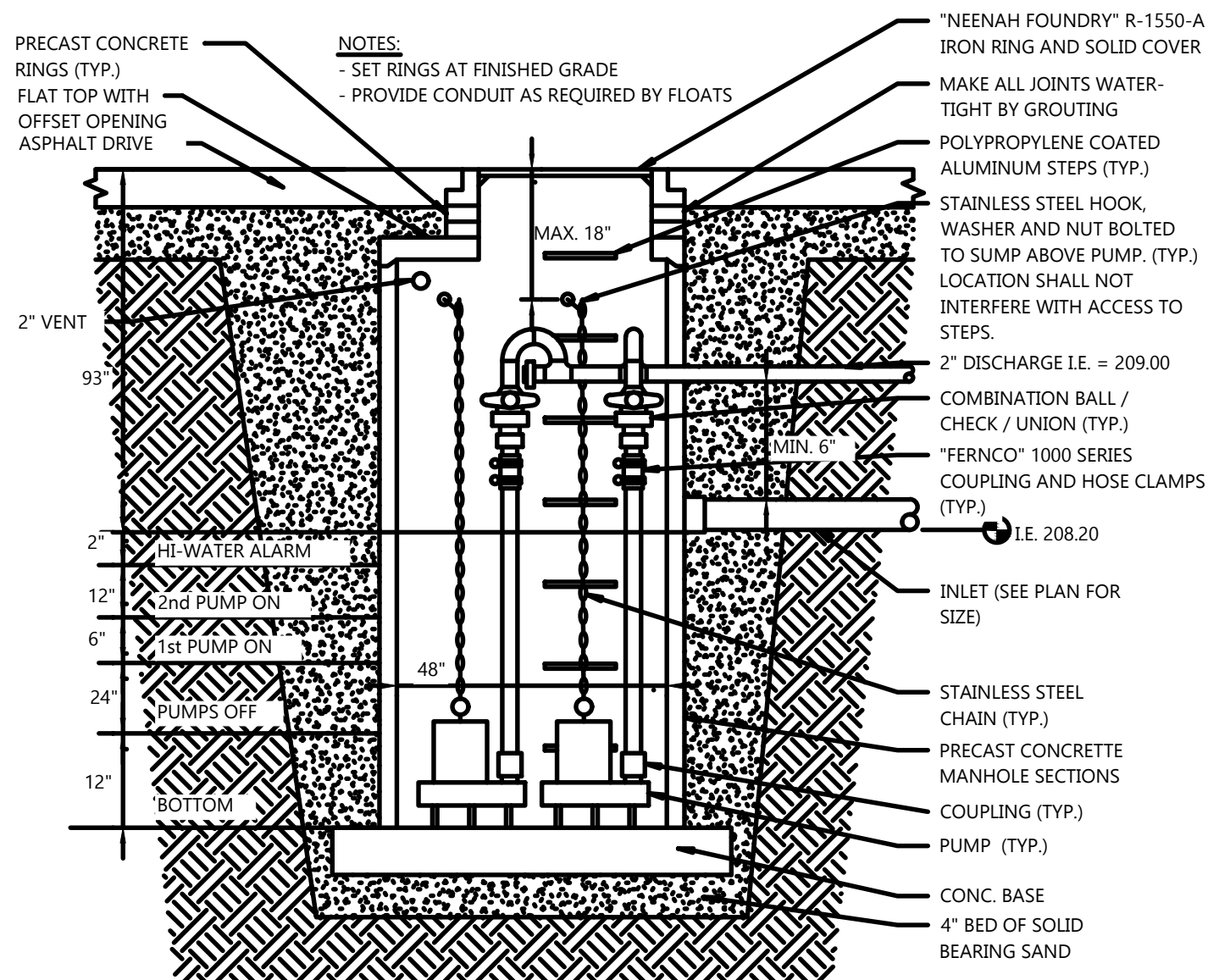
ADA SIDEWALK RAMP DETAIL
NOT TO SCALE



STORM CATCH BASIN DETAIL
NOT TO SCALE

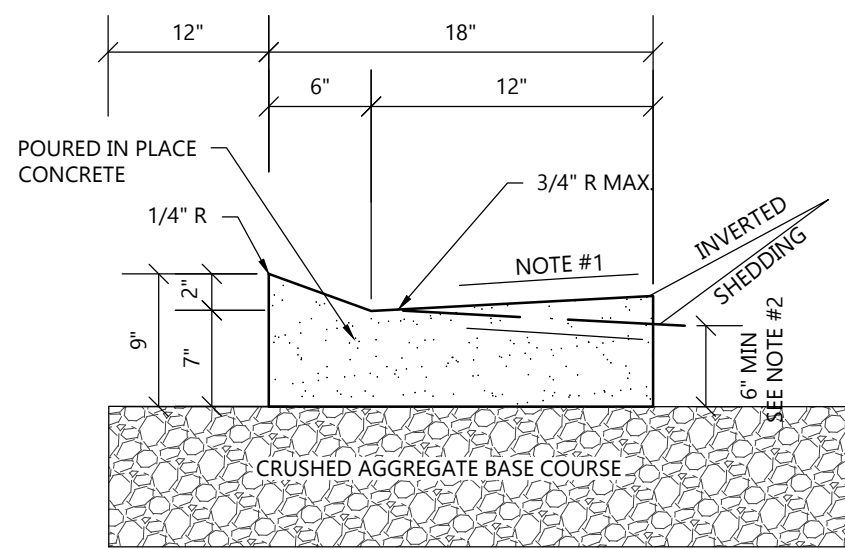


HANDICAP STALL SYMBOL
NOT TO SCALE



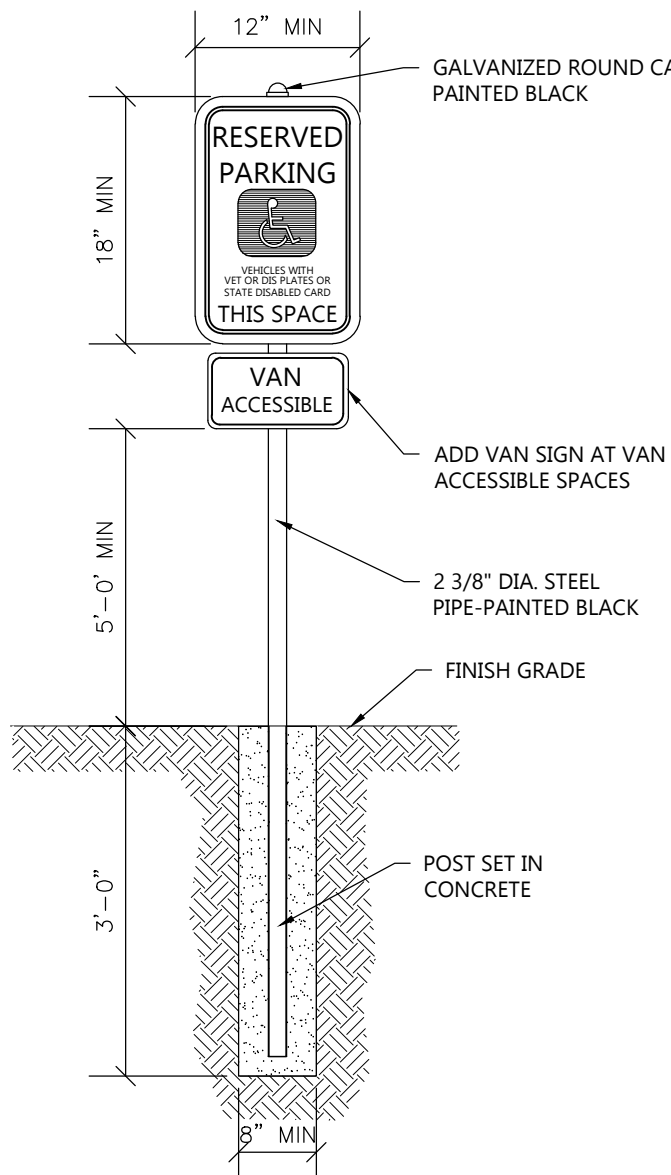
NOTE: COORDINATE/VERIFY FINAL PUMP CURVE (TDH AND FLOW RATE) CALCULATIONS BASED ON FINAL PUMP SELECTION.

SEWAGE EJECTOR SE-1 DETAIL
NOT TO SCALE



- NOTE:
- USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
 - THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MIN. GUTTER THICKNESS IS MAINTAINED.
 - SEE SITE PLAN & GRADING PLAN FOR INVERTED & SHEDDING CURB LOCATIONS

18" MOUNTABLE CURB & GUTTER DETAIL
NOT TO SCALE



HANDICAP SIGNAGE WITH CONCRETE BASE DETAIL
NOT TO SCALE



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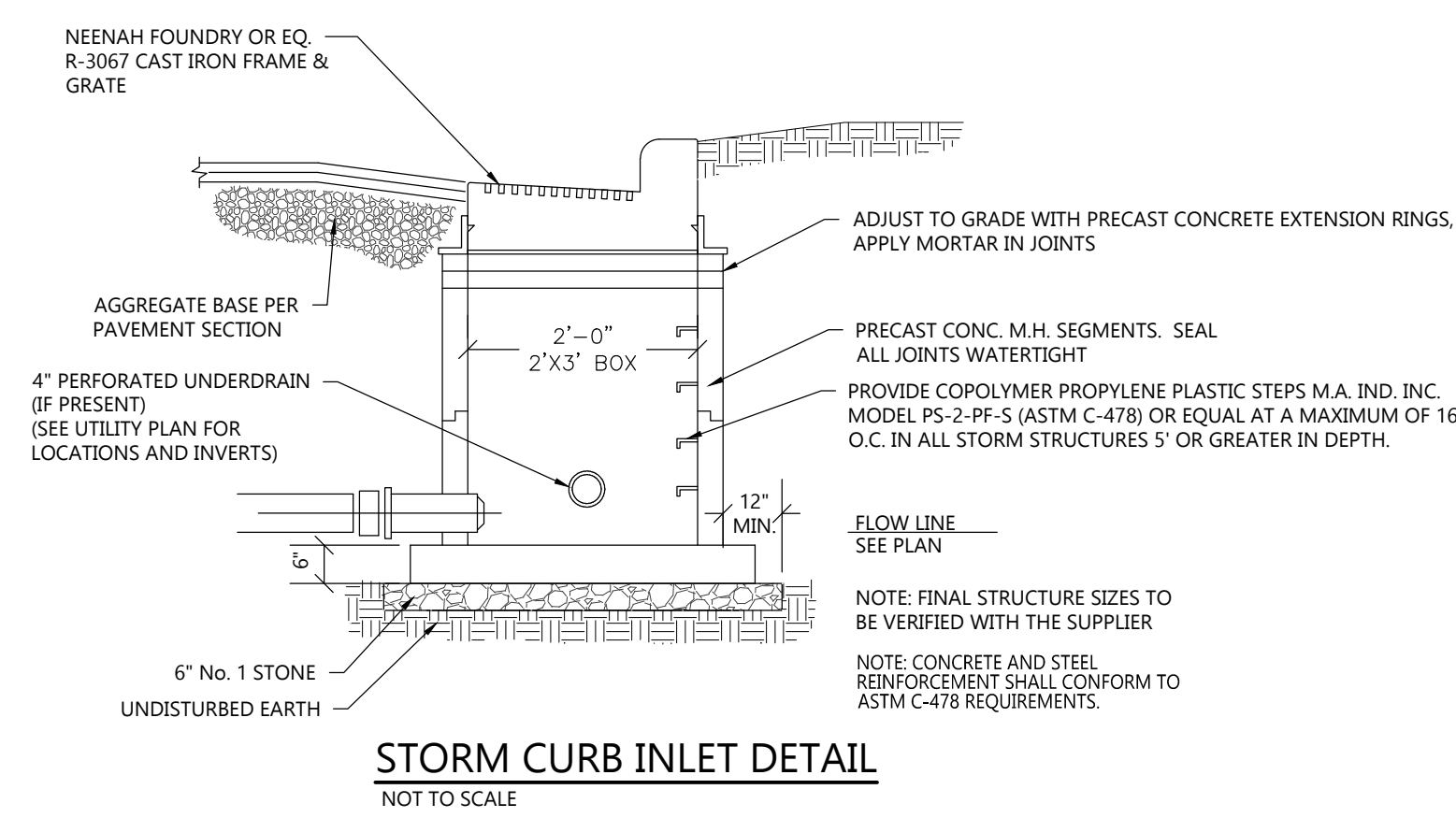
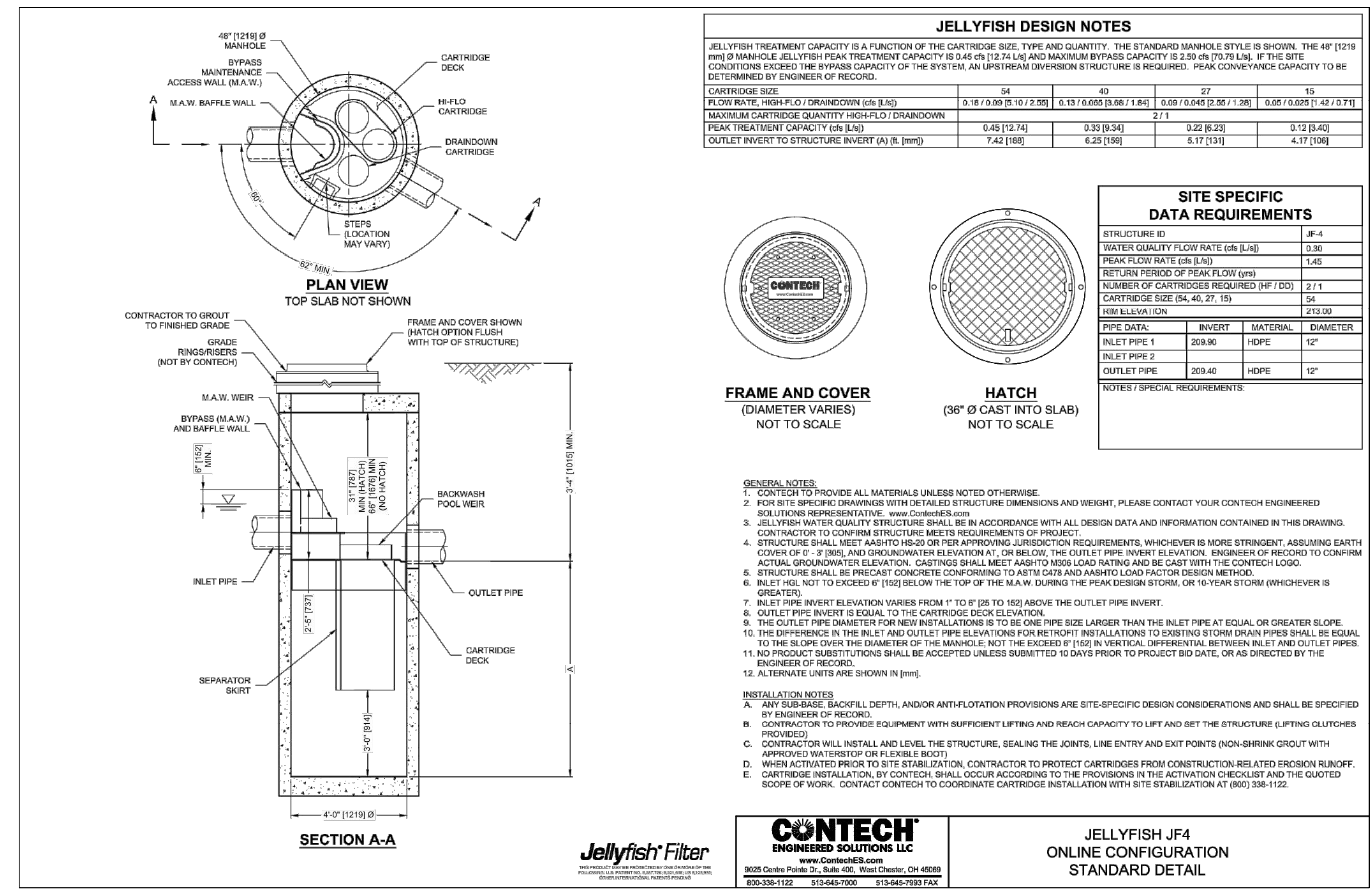
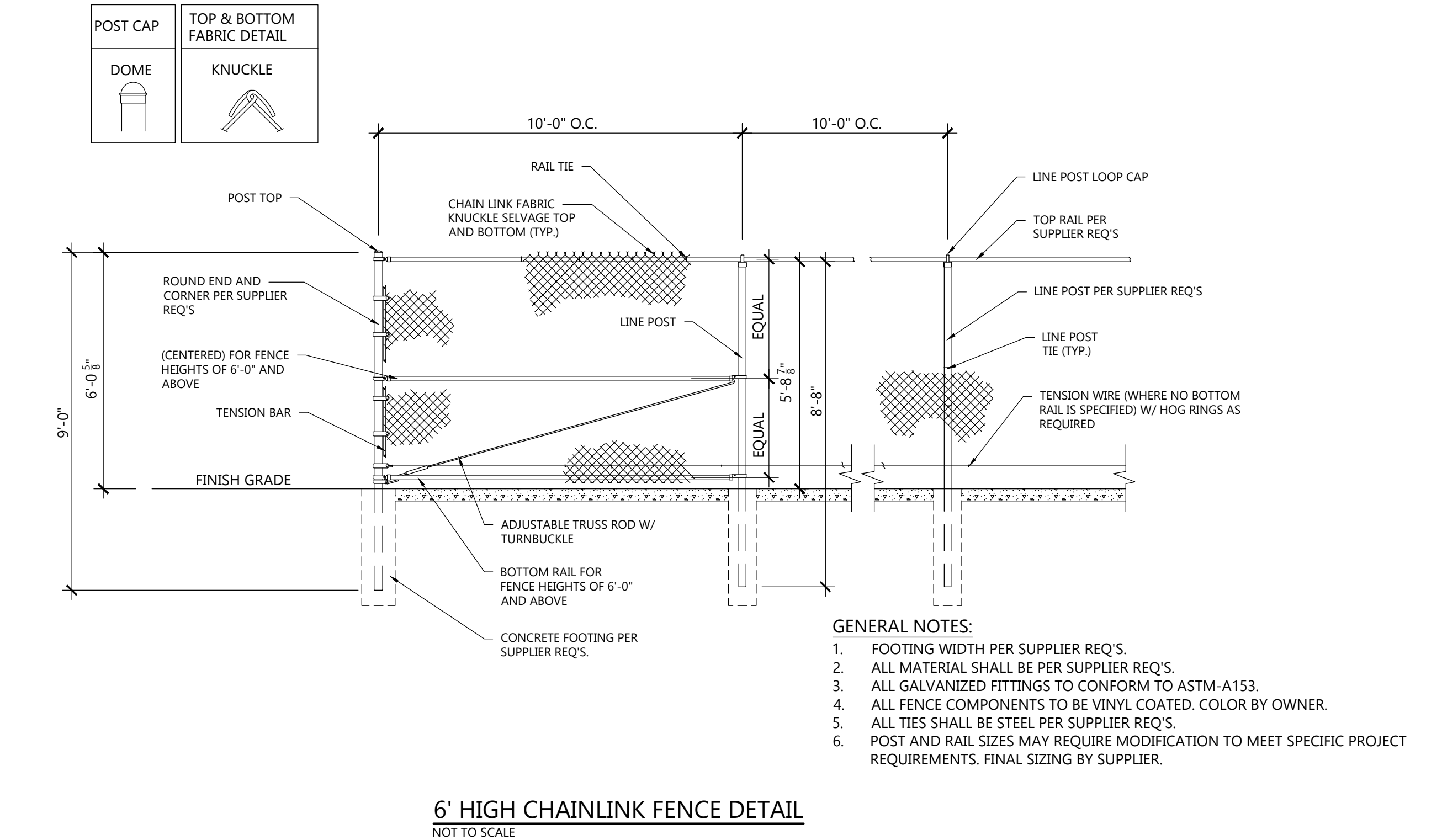
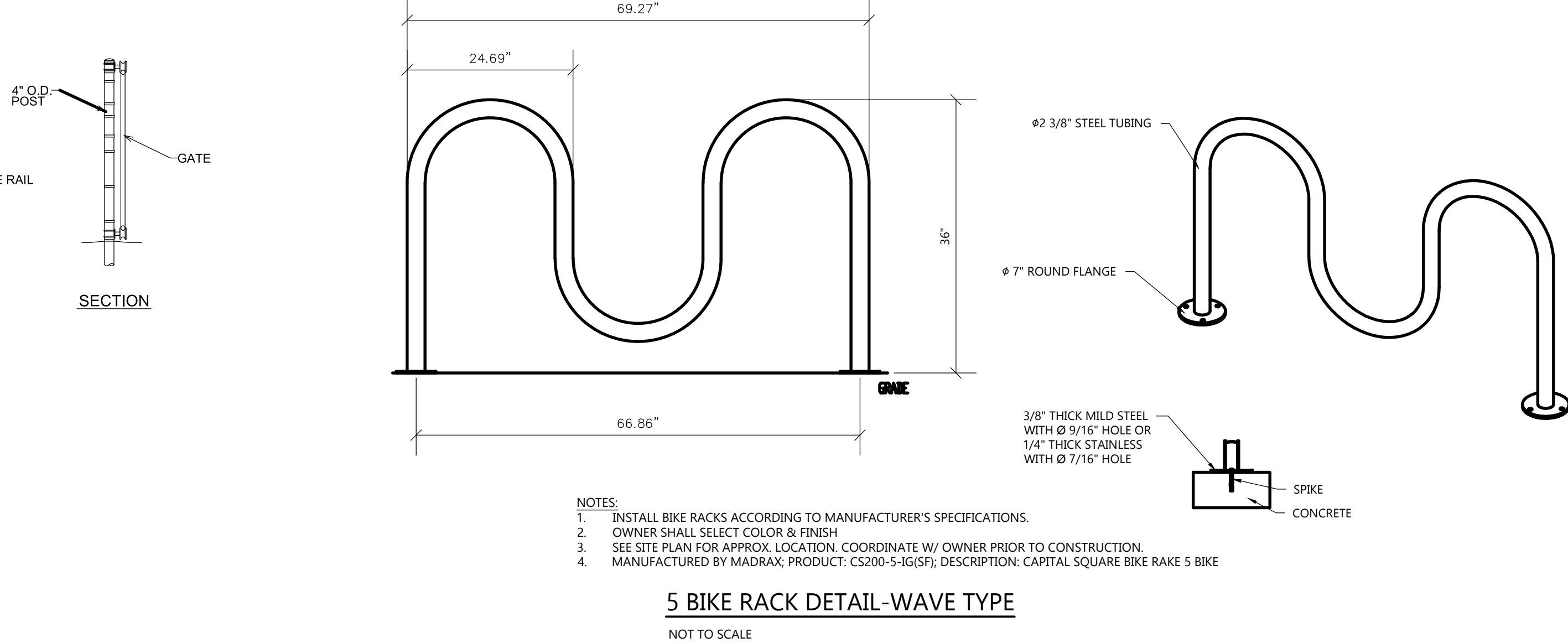
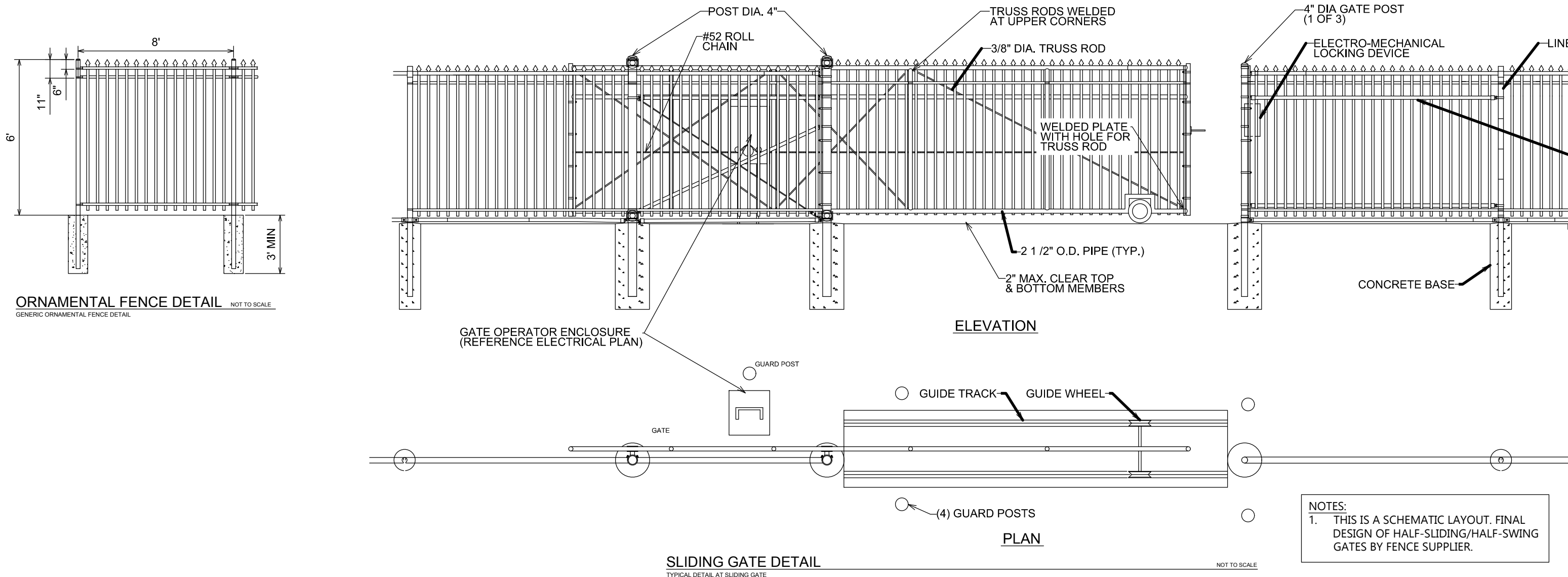
PROFESSIONAL SEAL

PRELIMINARY DATES	
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SHEET NUMBER

C2.0



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DBS GROUP
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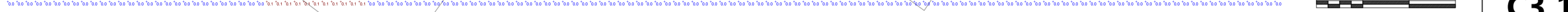
PROFESSIONAL SEAL

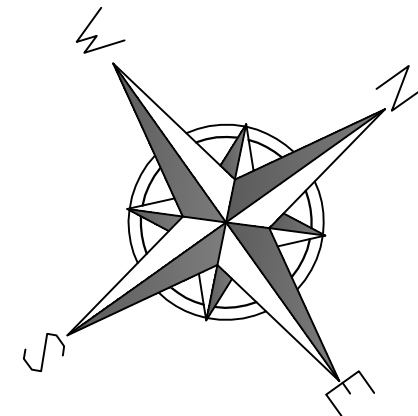
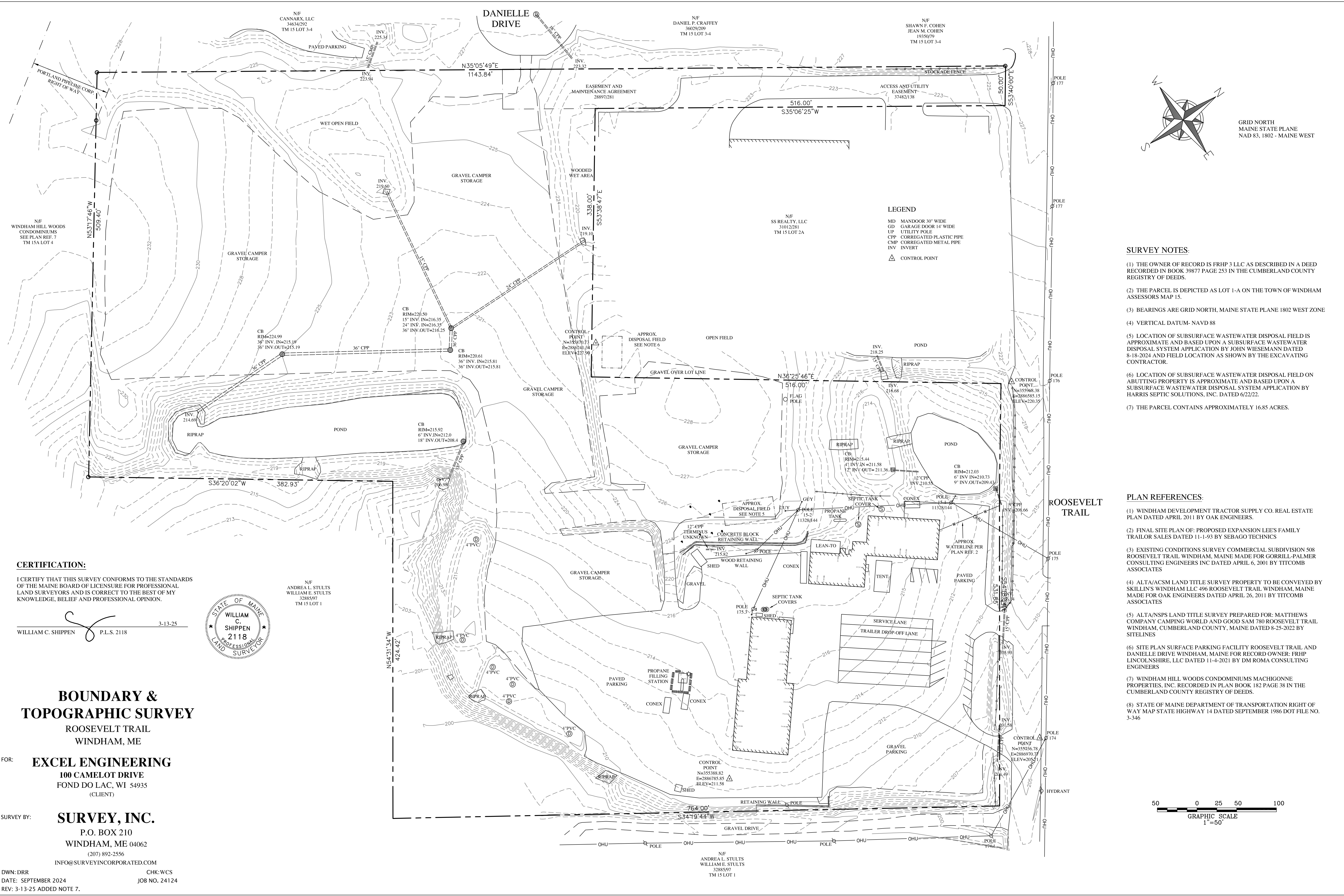
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C2.1

NOT FOR CONSTRUCTION





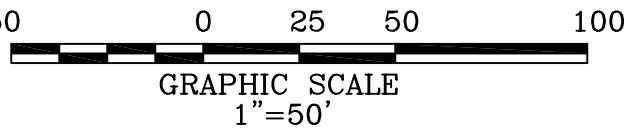
GRID NORTH
MAINE STATE PLANE
NAD 83, 1802 - MAINE WEST

SURVEY NOTES:

- (1) THE OWNER OF RECORD IS FRHP 3 LLC AS DESCRIBED IN A DEED RECORDED IN BOOK 39877 PAGE 253 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (2) THE PARCEL IS DEPICTED AS LOT 1-A ON THE TOWN OF WINDHAM ASSESSORS MAP 15.
- (3) BEARINGS ARE GRID NORTH, MAINE STATE PLANE 1802 WEST ZONE
- (4) VERTICAL DATUM- NAVD 88
- (5) LOCATION OF SUBSURFACE WASTEWATER DISPOSAL FIELD IS APPROXIMATE AND BASED UPON A SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION BY JOHN WIESEMANN DATED 8-18-2024 AND FIELD LOCATION AS SHOWN BY THE EXCAVATING CONTRACTOR.
- (6) LOCATION OF SUBSURFACE WASTEWATER DISPOSAL FIELD ON ABUTTING PROPERTY IS APPROXIMATE AND BASED UPON A SUBSURFACE WASTEWATER DISPOSAL SYSTEM APPLICATION BY HARRIS SEPTIC SOLUTIONS, INC. DATED 6/22/22.
- (7) THE PARCEL CONTAINS APPROXIMATELY 16.85 ACRES.

PLAN REFERENCES:

- (1) WINDHAM DEVELOPMENT TRACTOR SUPPLY CO. REAL ESTATE PLAN DATED APRIL 2011 BY OAK ENGINEERS.
- (2) FINAL SITE PLAN OF PROPOSED EXPANSION LEE'S FAMILY TRAILOR SALES DATED 11-1-93 BY SEBAGO TECHNICS
- (3) EXISTING CONDITIONS SURVEY COMMERCIAL SUBDIVISION 508 ROOSEVELT TRAIL WINDHAM, MAINE MADE FOR GORRILL-PALMER CONSULTING ENGINEERS INC DATED APRIL 6, 2001 BY TITCOMB ASSOCIATES
- (4) ALTA/ACSM LAND TITLE SURVEY PROPERTY TO BE CONVEYED BY SKILLIN'S WINDHAM LLC 496 ROOSEVELT TRAIL WINDHAM, MAINE MADE FOR OAK ENGINEERS DATED APRIL 26, 2011 BY TITCOMB ASSOCIATES
- (5) ALTA/NSPS LAND TITLE SURVEY PREPARED FOR: MATTHEWS COMPANY CAMPING WORLD AND GOOD SAM 780 ROOSEVELT TRAIL WINDHAM, CUMBERLAND COUNTY, MAINE DATED 8-25-2022 BY SITELINES
- (6) SITE PLAN SURFACE PARKING FACILITY ROOSEVELT TRAIL AND DANIELLE DRIVE WINDHAM, MAINE FOR RECORD OWNER: FRHP LINCOLNSHIRE, LLC DATED 11-4-2021 BY DM ROMA CONSULTING ENGINEERS
- (7) WINDHAM HILL WOODS CONDOMINIUMS MACHIGONNE PROPERTIES, INC. RECORDED IN PLAN BOOK 182 PAGE 38 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.
- (8) STATE OF MAINE DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP STATE HIGHWAY 14 DATED SEPTEMBER 1986 DOT FILE NO. 3-346



CERTIFICATION:

I CERTIFY THAT THIS SURVEY CONFORMS TO THE STANDARDS OF THE MAINE BOARD OF LICENSURE FOR PROFESSIONAL LAND SURVEYORS AND IS CORRECT TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL OPINION.

WILLIAM C. SHIPPEN
P.L.S. 2118
3-13-25



N/F
ANDREA L. STULTS
WILLIAM E. STULTS
32885/97
TM 15 LOT 1

**BOUNDARY &
TOPOGRAPHIC SURVEY**
ROOSEVELT TRAIL
WINDHAM, ME

FOR: **EXCEL ENGINEERING**
100 CAMELOT DRIVE
FOND DO LAC, WI 54935
(CLIENT)

SURVEY BY: **SURVEY, INC.**
P.O. BOX 210
WINDHAM, ME 04062
(207) 892-2556
INFO@SURVEYINCORPORATED.COM

DWN: DRR
DATE: SEPTEMBER 2024
REV: 3-13-25 ADDED NOTE 7.

CHK: WCS
JOB NO. 24124

N/F
ANDREA L. STULTS
WILLIAM E. STULTS
32885/97
TM 15 LOT 1