658-664 HOOSICK ROAD

SITE PLAN

TOWN OF BRUNSWICK, RENSSELAER COUNTY, NEW YORK

JUNE 19, 2020

INDEX OF SHEETS

SUBMISSION:

PRELIMINARY SUBMISSION - JUNE 19, 2020

SITE LOCATION MAP

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-0)
Date: Fri, Jun 19, 2020 - 2:40 PM (Name: aborza)

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

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CHIEF DESIGNER:	JWE
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DRAFT

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

COVER

658 - 664 HOOSICK ROAD

TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-0

LAYOUT NOTES:

1. ALL LINES AND ELEVATIONS SHOWN ON THE DRAWINGS SHALL BE LAID OUT BY A NYS REGISTERED SURVEYOR ENGAGED BY THE CONTRACTOR. ALL STAKED LAYOUTS OF PAVEMENTS AND SITE IMPROVEMENTS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
2. ALL LINES AND DIMENSIONS ARE PARALLEL OR PERPENDICULAR TO THE LINES FROM WHICH THEY ARE MEASURED UNLESS OTHERWISE INDICATED.
3. ALL DIMENSIONS ARE TO FACE OF CURB, FACE OF FOUNDATION WALL, OR FACE OF RETAINING WALL UNLESS OTHERWISE NOTED.
4. STORAGE AREAS FOR CONTRACTORS EQUIPMENT AND MATERIALS SHALL BE WITHIN THE LIMITS OF THE PROPERTY PROPOSED FOR DEVELOPMENT ONLY.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED-UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER AND HIS REPRESENTATIVES, AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR OMISSIONS TO THE SATISFACTION OF THE DIRECTOR AND HIS REPRESENTATIVES BEFORE UTILITIES, WILL BE ACCEPTED.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE IN STRICT COMPLIANCE WITH THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL," CURRENT EDITION.
2. THE LIMITS OF DISTURBANCE FOR ANY PROPOSED SITE CLEARING OR GRADING SHALL BE ESTABLISHED PRIOR TO COMMENCEMENT OF WORK.
3. ESTABLISH THE LOCATION OF PROPOSED EROSION AND SEDIMENT CONTROL MEASURES (STABILIZED CONSTRUCTION ACCESS, SILT FENCE, TOPSOIL STOCKPILE AREA, ETC.). CLEAR SAID LOCATION FOR INSTALLATION.
4. INSTALL STABILIZED CONSTRUCTION ACCESS.
5. INSTALL SEDIMENT BARRIERS AND TRAPS (SILT FENCE, BASIN TRAPS, OUTLET PROTECTION, ETC.). INSTALL ADDITIONAL TRAPS AND BARRIERS AS NEEDED DURING GRADING OPERATIONS.
6. INSTALL RUNOFF CONTROL MEASURES (DIVERSIONS, OUTLET PROTECTION, ETC.) AND ADDITIONAL RUNOFF CONTROL MEASURES AS NEEDED DURING GRADING.
7. CLEAR AND GRADE THE PROPOSED AREA OF DISTURBANCE.
8. APPLY SURFACE STABILIZATION MEASURES. AREAS UNDERGOING CLEARING OR GRADING, AND WHERE WORK IS DELAYED OR COMPLETED AND WILL NOT BE REDISTURBED FOR TWENTY ONE (21) DAYS OR MORE, SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT VEGETATIVE COVER WITHIN SEVEN (7) DAYS. IN SPRING, SUMMER OR EARLY FALL APPLY RYE GRASS AT A RATE OF 1 LB/1000 SF IN LATE FALL OR EARLY SPRING, APPLY CERTIFIED ROOTSTOCK RYE AT A RATE OF 2.5 LBS/1000 SF OR WOOD FIBER HYDROMULCH AT THE MANUFACTURER'S RECOMMENDED RATE. HAY OR STRAW SHOULD BE ANCHORED.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES THROUGHOUT THE COURSE OF CONSTRUCTION.
10. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST BY PERIODICALLY SPRINKLING EXPOSED SOIL AREAS WITH WATER AS REQUIRED. THE CONTRACTOR SHALL SUPPLY ALL EQUIPMENT AND WATER NECESSARY TO PERFORM THIS WORK.
11. WHEN ALL DISTURBED AREAS ARE STABLE, ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.
12. THE EROSION CONTROL MEASURES DEPICTED ON THESE PLANS ARE THE MINIMUM REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ALL GENERAL AND PARTICULAR MEASURES DEEMED NECESSARY BY THE OWNER'S FIELD REPRESENTATIVES.
13. DAMAGE TO SURFACE WATERS RESULTING FROM EROSION AND SEDIMENTATION SHALL BE MINIMIZED BY STABILIZING DISTURBED AREAS AND BY REMOVING SEDIMENT FROM CONSTRUCTION SITE DISCHARGES.
14. SITE PREPARATION ACTIVITIES SHALL BE PLANNED TO MINIMIZE THE SCOPE AND DURATION OF SOIL DISRUPTION.
15. PERMANENT TRAFFIC CORRIDORS SHALL BE ESTABLISHED AND "ROUTES OF CONVENIENCE" SHALL BE AVOIDED. STABILIZED CONSTRUCTION ACCESS SHALL BE INSTALLED AT ALL POINTS OF ENTRY AND EXIT TO AND FROM THE PROJECT SITE.
16. CONSTRUCTION TRAFFIC SHALL NOT CROSS STREAMS OR DITCHES EXCEPT AT SUITABLE CROSSING FACILITIES AND SHALL NOT OPERATE UNNECESSARILY WITHIN WATERWAYS OR DRAINAGE DITCHES.

WINTER CONDITIONS:

17. PREPARE A SNOW MANAGEMENT PLAN WITH ADEQUATE STORAGE FOR SNOW AND CONTROL OF MELT WATER, REQUIRING CLEARED SNOW TO BE STORED IN A MANNER NOT AFFECTING ONGOING CONSTRUCTION ACTIVITIES.
18. ENLARGE AND STABILIZE ACCESS POINTS TO PROVIDE FOR SNOW MANAGEMENT AND STOCKPILING. SNOW MANAGEMENT ACTIVITIES MUST NOT DESTROY OR DEGRADE INSTALLED EROSION AND SEDIMENT CONTROL PRACTICES.
19. A MINIMUM 25 FOOT BUFFER SHALL BE MAINTAINED FROM ALL PERIMETER CONTROLS SUCH AS SILT FENCE. MARK SILT FENCE WITH TALL STAKES THAT ARE VISIBLE ABOVE THE SNOW PACK.
20. EDGES OF DISTURBED AREAS THAT DRAIN TO A WATERBODY WITHIN 100 FEET WILL HAVE 2 ROWS OF SILT FENCE, 5 FEET APART, INSTALLED ON THE CONTOUR.
21. DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS. ALL DEBRIS, ICE DAMS, OR DEBRIS FROM PLOWING OPERATIONS, THAT RESTRICT THE FLOW OF RUNOFF AND MELTWATER, SHALL BE REMOVED.
22. SEDIMENT BARRIERS MUST BE INSTALLED AT ALL APPROPRIATE PERIMETER AND SENSITIVE LOCATIONS. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED BEFORE THE GROUND FREEZES.
23. SOIL STOCKPILES MUST BE PROTECTED BY THE USE OF ESTABLISHED VEGETATION, ANCHORED STRAW MULCH, ROLLED STABILIZATION MATTING, OR OTHER DURABLE COVERING. A BARRIER MUST BE INSTALLED AT LEAST 15 FEET FROM THE TOE OF THE STOCKPILE TO PREVENT SOIL MIGRATION AND TO CAPTURE LOOSE SOIL.
24. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS TEMPORARILY OR PERMANENTLY CEASED, THE APPLICATION OF SOIL STABILIZATION MEASURES SHOULD BE INITIATED BY THE END OF THE NEXT BUSINESS DAY AND COMPLETED WITHIN THREE (3) DAYS. ROLLED EROSION CONTROL BLANKETS MUST BE USED ON ALL SLOPES 3 HORIZONTAL TO 1 VERTICAL OR STEEPER.
25. IF STRAW MULCH ALONE IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED AT DOUBLE THE STANDARD RATE OF 2 TONS PER ACRE, MAKING THE APPLICATION RATE 4 TONS PER ACRE. OTHER MANUFACTURED MULCHES SHOULD BE APPLIED AT DOUBLE THE MANUFACTURER'S RECOMMENDED RATE.
26. TO ENSURE ADEQUATE STABILIZATION OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL SHOULD BE STABILIZED AT THE END OF EACH WORK DAY UNLESS:
    A. WORK WILL RESUME WITHIN 24 HOURS IN THE SAME AREA AND NO PRECIPITATION IS FORECAST OR;
    B. THE WORK IS IN DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS OPEN UTILITY TRENCHES, FOUNDATION EXCAVATIONS, OR WATER MANAGEMENT AREAS
27. USE STONE PATHS TO STABILIZE ACCESS PERIMETERS OF BUILDINGS UNDER CONSTRUCTION AND AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED. STONE PATHS SHOULD BE A MINIMUM 10 FEET IN WIDTH BUT WIDER AS NECESSARY TO ACCOMMODATE EQUIPMENT.

CONSTRUCTION ACCESS NOTES:

1. STABILIZED CONSTRUCTION ACCESS UTILIZED DURING CONSTRUCTION SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE CLEANED AND REMOVED IMMEDIATELY.
2. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE.

MATERIAL STOCKPILE NOTES:

1. EXISTING EXCESS TOPSOIL SHALL BE REMOVED AND STORED IN STOCKPILES. THE STOCKPILES SHALL BE SUFFICIENTLY REMOVED FROM ALL OTHER EXCAVATION AND/OR DISTURBANCE AREAS TO AVOID MIXING. SILT FENCE IS TO BE INSTALLED AROUND TOPSOIL STOCKPILE AREAS.
2. EXCESS SOIL TO BE STOCKPILED WITHIN THE LIMITS OF SITE DISTURBANCE (IF IT IS NOT USED IMMEDIATELY FOR GRADING PURPOSES AND IF IT IS EXPECTED TO REMAIN EXPOSED FOR PERIODS LESS THAN FOURTEEN (14) DAYS SHALL HAVE HAY BALE BERMS OR SILT FENCES CONSTRUCTED AROUND ALL STOCKPILES OF FILL, TOPSOIL AND EXCAVATED OVERBURDEN. HAY BALE BERMS AND SILT FENCES SHALL BE ANCHORED AND MAINTAINED IN GOOD CONDITION UNTIL SUCH TIME AS SAID STOCKPILES ARE REMOVED AND STOCKPILING AREAS ARE BROUGHT TO FINAL GRADE AND PERMANENTLY STABILIZED.
3. IN NO CASE SHALL ERODIBLE MATERIALS BE STOCKPILED WITHIN 25'-0" OF ANY DITCH, STREAM OR OTHER SURFACE WATER BODY.

TOPSOIL MATERIALS:

1. TOPSOIL FURNISHED FROM AN OFF-SITE SOURCE SHALL BE BETTER THAN OR EQUAL TO THE QUALITY OF THE EXISTING SITE TOPSOIL. TOPSOIL MATERIALS SHALL MEET THE FOLLOWING CRITERIA:
    A. ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENEOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADMIXTURE OF SUBSOIL MATERIAL AND ENTIRELY FREE OF DENSE MATERIAL, HARDPAN, SOD OR ANY OTHER OBJECTIONABLE FOREIGN MATERIAL.
    B. TOPSOIL MATERIALS SHALL HAVE AT LEAST 4% BY WEIGHT AND NO GREATER THAN 20% OF ORGANIC MATTER IN THAT PORTION OF A SAMPLE PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105°C.
    C. TOPSOIL MUST EXHIBIT A PH VALUE WITHIN THE RANGE OF 4.5 TO 7.0 ON THAT PORTION OF THE SAMPLE THAT PASSES A 1/4" SIEVE.
    D. TOPSOIL MUST CONTAIN THE FOLLOWING GRADATIONS:
        - 100% PASSING A 1" SIEVE
        - 97-100% PASSING A 1/4" SIEVE
        - 20-65% (OF THE 1/4" SIEVE) PASSING THE NO. 200 SIEVE
2. ROUGH GRADING AND/OR FINAL GRADE PREPARATION FOR TOPSOIL PLACEMENT SHALL ALLOW FOR THE DEPTH OF TOPSOIL TO BE ADDED.
3. TOPSOIL SHALL BE DISTURBED TO A UNIFORM DEPTH OVER THE APPLICATION AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, ON FROZEN SLOPES OR OVER ICE, SNOW OR STANDING WATER.
4. TOPSOIL PLACED AND GRADED ON SLOPES STEEPER THAN 5% SHALL BE PROMPTLY FERTILIZED, SEEDED, MULCHED AND STABILIZED BY "TRACKING" WITH SUITABLE EQUIPMENT.
5. PRIOR TO TOPSOIL PLACEMENT, REMOVE REFUSE, WOODY PLANT PARTS, STONES OVER 3" IN DIAMETER AND OTHER LITTER.
6. SCARIFY ALL COMPACT, SLOWLY PERMEABLE, MEDIUM AND FINE-TEXTURED SUBSOIL AREAS TO A DEPTH OF 3". SCARIFY AT APPROXIMATELY RIGHT ANGLES TO THE SLOPE DIRECTION IN SOIL AREAS THAT ARE STEEPER THAN 5%.
7. TOPSOIL SHALL BE PLACED AT A MINIMUM THICKNESS OF 4".

REMOVAL NOTES:

1. THE CONTRACTOR SHALL COORDINATE HIS EFFORTS OF DEMOLITION, REMOVALS, RELOCATIONS AND PROPOSED WORK, WITH ALL TRADES, AS APPLICABLE. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR UTILITY AND OTHER COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
2. SAWCUT EXISTING PAVEMENT (CONCRETE OR ASPHALT) AS REQUIRED TO FORM A CLEAN STRAIGHT EDGE PRIOR TO REMOVAL. SAWCUT EXISTING CURBS AND SIDEWALKS AT DESIGNATED REMOVAL POINTS OR TO NEAREST JOINT BEYOND REMOVAL POINT. NO PARTIAL SIDEWALK PANELS TO REMAIN.
3. ALL ITEMS REQUIRING REMOVAL SHALL BE REMOVED TO FULL DEPTH TO INCLUDE BASE MATERIAL AND FOOTINGS AND FOUNDATIONS AS APPLICABLE.
4. ALL STRUCTURES TO BE REMOVED SHALL BE REMOVED AND DISPOSED OF AT THE CONTRACTORS EXPENSE. EXCAVATING SHALL BE BACKFILLED IN ACCORDANCE WITH SPECIFICATIONS.
5. ALL ITEMS MARKED FOR REMOVAL AND INCIDENTAL REMOVALS NECESSARY FOR PROPOSED CONSTRUCTION SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS EXPENSE, INCLUDING ALL CONSTRUCTION DEBRIS.
6. THE CONTRACTOR SHALL RESTORE AREA TO ORIGINAL OR BETTER CONDITION UPON SUBSTANTIAL COMPLETION OF WORK.
7. ALL CLEARING AND GRUBBING OF AREAS SHALL BE COORDINATED ACCORDINGLY WITH PROPOSED WORK.
8. TREE AND SHRUB REMOVAL SHALL INCLUDE REMOVAL OF THE ENTIRE STUMP AND ROOT SYSTEM.
9. DEMOLITION OPERATIONS FOR EXISTING PROPERTIES SHALL INCLUDE REMOVAL OF ALL EXISTING STRUCTURES AND ALL INCIDENTAL REMOVALS REQUIRED FOR CONSTRUCTION RELATED TO THE NEW FACILITY. ALL UTILITY REMOVALS SHALL BE COORDINATED AND CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THOSE AGENCIES GOVERNING EACH APPLICABLE UTILITY.
10. ALL TREE REMOVALS SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE. TREES TO BE REMOVED SHALL BE FLAGGED WITH RIBBON BEFORE REMOVAL OPERATION HAS COMMENCED. DO NOT REMOVE TREES WITHOUT PRIOR CONSENT.
11. ALL EXISTING SIGNAGE WITHIN THE PROJECT'S LIMITS SHALL BE VERIFIED AND INVENTORIED BEFORE REMOVAL. EXISTING SIGNAGE NOT CALLED OUT FOR REMOVAL OR RELOCATION THAT MAY BE IMPACTED DURING CONSTRUCTION SHALL BE COORDINATED WITH OWNER'S REPRESENTATIVE.

GENERAL CONSTRUCTION NOTES:

1. THE PLANS SHOW SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING. THE CONTRACTOR SHALL TAKE NOTE THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES MAY BE DIFFERENT FROM THAT SHOWN OR NOT SHOWN AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. PRIOR TO ANY EXCAVATION, DRILLING OR BLASTING THE CONTRACTOR SHALL CALL 1-888-DIGSAFE.
2. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE ENGINEER OR OWNER'S REPRESENTATIVE, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF A NEW YORK STATE LICENSED LAND SURVEYOR.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP AS-BUILT PLANS FOR ALL UTILITIES SHOWING TIES TO CONNECTIONS, BENDS, VALVES, LENGTHS OF LINES AND INVERTS. AS-BUILT PLANS SHALL BE REVIEWED BY THE OWNER'S REPRESENTATIVE AND THE ENGINEER AND THE CONTRACTOR SHALL PROVIDE ANY CORRECTION OR OMISSIONS TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND THE ENGINEER BEFORE UTILITIES WILL BE ACCEPTED.
4. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT PRIOR REVIEW AND APPROVAL BY THE ENGINEER.
5. THE ENGINEER RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THIS PROJECT AT ANY TIME TO DETERMINE THE CONFORMANCE OF THE WORK WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT AS INTENDED AND INTERPRETED BY THE ENGINEER.
6. THE CONTRACTOR SHALL VERIFY ALL UTILITY SERVICES PRIOR TO INTERRUPTION AS APPLICABLE. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE UTILITY OWNER. NOTIFY THE OWNER'S REPRESENTATIVE AT LEAST 72 HOURS BEFORE EACH CONNECTION TO EXISTING SYSTEMS IS MADE.
7. THE CONTRACTOR SHALL RESTORE LAWNS, DRIVEWAYS, CULVERTS, SIGNS AND OTHER PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD A CONDITION AS BEFORE BEING DISTURBED, AS DETERMINED BY THE ENGINEER. REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES, EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK, AND HOLD THE OWNER'S REPRESENTATIVE HARMLESS AGAINST ANY AND ALL CLAIMS ARISING FROM WORK PERFORMED BY THE CONTRACTOR ON THE SITE.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS, SPECIFICATIONS, AND CONTRACT DOCUMENTS AND COORDINATE WORK WITH ALL OTHER CONTRACTS AS APPLICABLE.
10. ALL WORK SHALL BE CARRIED OUT IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
11. ALL PROPOSED UTILITIES AND APPURTENANCES SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE LOCAL MUNICIPALITIES' CODES AND REGULATIONS GOVERNING THE INSTALLATION OF SUCH UTILITIES.
12. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS NEEDED BY THE CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO WORK.
13. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF OSHA REGULATIONS FOR CONSTRUCTION.
14. THE CONTRACTOR SHALL MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS, ETC. AND SHALL COMPLY WITH ALL REQUIRED PERMITS AND ASSOCIATED CONDITIONS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL MAINTAIN EXISTING SITE DRAINAGE PATTERNS THROUGHOUT CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE PLANS.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING AND MAINTAINING ALL TRAFFIC CONTROL AND SAFETY MEASURES DURING CONSTRUCTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY AND SAFELY MAINTAINING AREA BETWEEN ALL ADJOINING PROPERTIES.
19. NO WORK, STORAGE OR TRESPASSING SHALL BE PERMITTED BEYOND THE SITE PROPERTY LINES OR PUBLIC RIGHT-OF-WAY WITHOUT PRIOR AUTHORIZATION.
20. ALL CURBING, PAVING, SIDEWALKS, LAWN OR OTHER STRUCTURES OR FACILITIES DISTURBED OR DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED OR REPAIRED TO A CONDITION EQUAL TO EXISTING, AS DESCRIBED IN CONTRACT DOCUMENTS OR AS ORDERED BY ENGINEER (AOBE).

UTILITY NOTES:

1. CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE COVERS, CATCH BASIN FRAMES AND GRATES, WATER VALVE COVERS, GAS VALVES, AND OTHER UTILITIES WHERE ENCOUNTERED TO MATCH NEW LINE AND FINISHED GRADE OF LAWN, SIDEWALK OR PAVEMENT.
2. BEFORE CONSTRUCTING LINES TO CONNECT TO EXISTING UTILITIES THE CONTRACTOR SHALL VERIFY EXISTING UTILITY INVERTS AND NOTIFY ENGINEER IF ANY VARIATION FROM THE PLANS IS REQUIRED.
3. PRIOR TO COMMENCEMENT OF STORM AND/OR SANITARY SEWER CONSTRUCTION. CONTRACTOR SHALL VERIFY BOTH HORIZONTAL AND VERTICAL POSITION OF EXISTING SEWER AT CONNECTION POINT. CONTRACTOR IS TO CONSTRUCT GRAVITY LINES PROGRESSIVELY FROM DOWNSTREAM TO UPSTREAM. ANY EXCEPTIONS TO THIS MUST BE APPROVED BY THE ENGINEER. ANY GRADE DISCREPANCIES MUST BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY.
4. CONSTRUCTION OF ALL PROPOSED UTILITIES MUST BEGIN AT ITS POINT OF CONNECTION TO THE EXISTING UTILITY OR AT THE LOWEST POINT IN THE SYSTEM. RIMS, GRATES, INVERTS, CLEARANCES, AND LOCATION AT CROSSINGS MUST BE VERIFIED PRIOR TO THE BEGINNING OF CONSTRUCTION.
5. SEWER MAINS IN RELATION TO WATER MAINS: WHERE POSSIBLE, SEWER SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. VERTICAL SEPARATION SHALL BE MAINTAINED TO PROVIDE EIGHTEEN (18) INCHES BETWEEN TOP OF SEWER AND THE INVERT OF THE WATER MAIN AT UTILITY CROSSINGS. WHEN IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION, PRESSURE RATED PIPE SHALL BE USED TEN (10) FEET ON EACH SIDE OF THE WATER MAIN BEING CROSSED.
6. ALL CONSTRUCTION STAKE OUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. LOCATION OF MANHOLES ARE TO BE INDIVIDUALLY STAKED OUT.
7. CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO EXISTING UTILITIES. DAMAGED UTILITIES SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL MAINTAIN FLOWS FOR ALL EXISTING UTILITIES.
9. ALL UTILITY INSTALLATION AND MATERIALS SHALL CONFORM TO MUNICIPALITY'S STANDARDS AND SPECIFICATIONS.
10. UNDERGROUND ELECTRIC SERVICE AND GAS SERVICE SHALL BE COORDINATED WITH NATIONAL GRID.
11. ALL PAVEMENT, WALKWAYS, AND GRANITE OR CONCRETE CURB REMOVED FOR UTILITY INSTALLATION SHALL BE REPLACED IN KIND UPON COMPLETION OF WORK IN EACH RESPECTIVE AREA.
12. CONTRACTOR WILL NOTIFY THE DEPARTMENT OF WATER SUPPLY FORTY-EIGHT (48) HOURS PRIOR TO SCHEDULE AN INSPECTION OF WATER, SANITARY AND STORM UTILITY WORK.

VEGETATIVE COVER SPECIFICATIONS:

1. AS MUCH AS IS PRACTICAL, EXISTING VEGETATION SHALL BE PRESERVED. FOLLOWING THE COMPLETION OF CONSTRUCTION ACTIVITIES IN ANY PORTION OF THE SITE. PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS.
2. SITE PREPARATION:
    A. FERTILIZE SEEDED AREAS, PER THE CONTRACT SPECIFICATIONS, OR APPLY 20 LBS OF 5-10-5 (NPK) OR EQUIVALENT PER 1000 SQ. FT), OR APPLY 1 LBS OF NITROGEN PER 1000 SF.
    B. INCORPORATE LIME AND FERTILIZER INTO THE TOP 2" TO 4" OF TOPSOIL. LIME SHALL BE APPLIED SUFFICIENT TO ATTAIN A SOIL ACIDITY pH OF 6.0 TO 7.5.
    C. SMOOTH AND FIRM THE SEEDED AREA.
    D. SUBSEQUENT TO SEEDING, ALL DISTURBED AREAS SHALL BE STABILIZED BY APPLYING 100 LBS OF STRAW MULCH PER 1000 SF STRAW MULCH SHALL BE ANCHORED BY APPLYING 750 LBS OF WOOD FIBER MULCH PER ACRE WITH A HYDROSEEDER, OR BY TUCKING THE MULCH WITH SMOOTH DISCS OR OTHER MULCH ANCHORING TOOLS TO A DEPTH OF 3". MULCH-ANCHORING TOOLS SHALL BE PULLED ACROSS SLOPES ALONG TOPOGRAPHIC CONTOURS.
3. SEEDING
    A. APPLY SEED UNIFORMLY BY CYCLONE SEEDER CULTI-PACKER OR HYDRO-SEEDER AT THE RATE INDICATED IN THE CONTRACT SPECIFICATIONS.
    B. MULCH SEEDED AREAS WITH HAY OR STRAW MULCH (RATE = 100 LBS PER 1000 SF)
    C. IRRIGATE TO FULLY SATURATE SOIL LAYER, BUT DO NOT DISLODGE PLANTING SOIL.
    D. SEED BETWEEN APRIL 1ST AND MAY 15TH OR AUGUST 15TH AND OCTOBER 15TH. SEEDING MAY OCCUR BETWEEN MAY 15TH AND AUGUST 15TH IF ADEQUATE IRRIGATION IS PROVIDED.
4. SEE PLANTING PLAN FOR SEED MIXTURES.
5. IMMEDIATELY FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITY IN ANY PORTION OF THE SITE, PERMANENT VEGETATION SHALL BE ESTABLISHED ON ALL EXPOSED SOILS. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED, AS SOON AS IS PRACTICAL FOLLOWING DISTURBANCE, TO STABILIZE BARE SOIL AND PROMOTE PROMPT RE-ESTABLISHMENT OF VEGETATION.
6. WATER SHALL BE APPLIED TO NEWLY SEEDED AREAS AS NEEDED UNTIL GRASS COVER IS WELL ESTABLISHED. WATER SHALL BE APPLIED TO EXPOSED SOILS, AS NECESSARY, TO EFFECTIVELY CONTROL WIND EROSION OF THE PROJECT SITE.

UNDERGROUND UTILITY NOTES:

4. THE CONTRACTOR SHALL CALL THE UNDERGROUND FACILITIES PROTECTION ORGANIZATION (UFPO) AT 1-800-245-2828 PRIOR TO DIGGING OR DRILLING TO MAKE SURE THAT THERE IS NO DANGER OF DAMAGING UNDERGROUND UTILITIES.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES WITHIN THE PROJECT LIMITS PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY UTILITIES DAMAGED DURING THE COURSE OF THE PROJECT RELATED TO FAILURE TO ACCURATELY VERIFY UTILITY LOCATIONS.

GRADING AND TREE PROTECTION NOTES:

1. ALL EARTHWORK GRADING SHALL BE BLENDED SMOOTHLY AND EVENLY INTO EXISTING CONDITIONS.
2. ALL SLOPES OF 2 ON 1 OR STEEPER ARE TO BE STABILIZED WITH STONE RIPRAP OR SOIL STABILIZATION FABRIC, WHERE APPLICABLE.
3. TEMPORARY PROTECTION: PROVIDE TEMPORARY FENCING, BARRICADES OR OTHER SUITABLE REMAINING GUARDS LOCATED OUTSIDE THE TREE DRIP LINE (OUTER PERIMETER OF BRANCHES) TO PROTECT TREES AND OTHER PLANTS FROM DAMAGE.
4. DO NOT STORE CONSTRUCTION MATERIALS, DEBRIS OR EXCAVATED MATERIAL WITHIN THE TREE DRIP LINE OF REMAINING TREES. DO NOT PERMIT VEHICLES OR FOOT TRAFFIC WITHIN THE DRIP LINE, AND PREVENT SOIL COMPACTION OVER ROOT SYSTEMS.
5. WHERE EXCAVATION FOR NEW CONSTRUCTION IS REQUIRED WITHIN TREE DRIP LINES, HAND EXCAVATE TO MINIMIZE DAMAGE TO ROOT SYSTEMS. USE NARROWTINE SPADING FORKS AND COMB SOIL TO EXPOSE ROOTS.
6. RELOCATE ROOTS IN BACKFILL AREAS WHEREVER POSSIBLE. IF ENCOUNTERING LARGE, MAIN LATERAL ROOTS, EXPOSE THEM BEYOND EXCAVATION LIMITS, AS REQUIRED, BENDING AND RELOCATING WITHOUT BREAKING. IF ENCOUNTERING IMMEDIATELY ADJACENT TO LOCATION OF NEW CONSTRUCTION, AND RELOCATION IS NOT PRACTICAL, CUT ROOTS APPROXIMATELY 3" BACK FROM NEW CONSTRUCTION LIMITS.
7. DO NOT ALLOW EXPOSED ROOTS TO DRY OUT BEFORE PLACING PERMANENT BACKFILL. PROVIDE TEMPORARY EARTH COVER OR PACK WITH PEAT MOSS AND WRAP WITH BURLAP. WATER AND MAINTAIN ROOTS IN A MOIST CONDITION, AND TEMPORARILY SUPPORT AND PROTECT ROOTS FROM DAMAGE UNTIL THEY ARE PERMANENTLY RELOCATED AND COVERED WITH EARTH.
8. WHERE UTILITY TRENCHES ARE REQUIRED WITHIN TREE DRIP LINES, TUNNEL UNDER OR AROUND THE ROOTS BY DRILLING, AUGER, BORING PIPE, JACKING OR DIGGING BY HAND AS REQUIRED.
9. ROOT PRUNING: DO NOT CUT MAIN LATERAL ROOTS OR TAP ROOTS; CUT ONLY SMALLER ROOTS THAT INTERFERE WITH INSTALLATION OF NEW WORK. CUT ROOTS WITH A SHARP PRUNING INSTRUMENT; DO NOT BREAK OR CHOP.
10. DO NOT REGRADE MORE THAN 6" ABOVE EXISTING GRADE AROUND TREES. PROVIDE TREE PROTECTION FOR FILL OVER 6".
11. PRUNE REMAINING TREES AFFECTED BY TEMPORARY AND NEW CONSTRUCTION. CUT BRANCHES WITH SHARP PRUNING INSTRUMENTS; DO NOT BREAK OR CHOP.
12. PRUNE REMAINING TREES TO COMPENSATE FOR ROOT LOSS CAUSED BY DAMAGING OR CUTTING ROOT SYSTEM. PROVIDE SUBSEQUENT MAINTENANCE DURING THE ENTIRE CONTRACT/WARRANTY PERIOD.
13. PRUNE TREES ACCORDING TO THE NATIONAL ARBORIST ASSOCIATION'S "PRUNING STANDARDS FOR SHADE TREES."
14. CHIP BRANCHES REMOVED FROM TREES. SPREAD MATERIALS WHERE INDICATED, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
15. ALL UNNECESSARY REMOVAL OF HEALTHY TREES SHALL BE AVOIDED, UNLESS OTHERWISE NOTED ON THE CONTRACT PLANS. MATERIALS SHALL NOT BE STORED, AND MACHINERY SHALL NOT BE OPERATED, WITHIN THE DRIP LINE OF TREES TO REMAIN.

DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES:

1. STORM DRAIN SEDIMENT FILTERS: PRIOR TO COMMENCEMENT OF CONSTRUCTION, EITHER STORM DRAIN INLET FILTERS OR STRAW BALE WEIRS SHALL BE CONSTRUCTED AT EXISTING STORM DRAINS, AS REQUIRED. THEY SHALL BE MAINTAINED IN GOOD CONDITION UNTIL FINAL VEGETATIVE COVER IS WELL ESTABLISHED ON ALL DISTURBED AREAS UPSTREAM OF THE INLET.
2. DRAINAGE DITCH SEDIMENT FILTERS: UNTIL FINAL SITE STABILIZATION IS COMPLETED, DITCHES SHALL RECEIVE TREATMENT WITH STRAW BALE WEIRS TO EFFECTIVELY TRAP SEDIMENT AND MINIMIZE ITS RELEASE OFF SITE. STRAW BALE FILTERS SHALL BE CONSTRUCTED WITHIN EACH DITCH BEGINNING AT ITS DOWNSTREAM TERMINUS AND SHOULD BE PLACED AT INTERVALS OF LESS THAN 100'-0".

LITTER AND CONSTRUCTION DEBRIS CONTROL MEASURES:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE FOLLOWING LITTER AND CONSTRUCTION DEBRIS CONTROL MEASURES:

1. THE CONTRACTOR SHALL DISPOSE OF ALL CONSTRUCTION DEBRIS AT AN OFF-SITE FACILITY APPROVED FOR THE TYPE OF MATERIAL GENERATED AT THE SITE.
2. NO BURNING OR BURY PITS WILL BE PERMITTED ON SITE.
3. TEMPORARY STORAGE CONTAINERS SHALL BE PROVIDED, AS NECESSARY, TO CONTROL LITTER AND CONSTRUCTION DEBRIS FROM ENTERING ON-SITE STORMWATER DISCHARGES.
4. PRIOR TO LEAVING THE SITE EACH DAY, THE CONTRACTOR SHALL INSPECT THE PROJECT SITE AND PLACE ALL LITTER AND CONSTRUCTION DEBRIS IN APPROPRIATE STORAGE CONTAINERS.

TEST PIT DATA:

TP - 6 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.4' TOPSOIL
- 0.4'-2.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLES AND SHALE BOULDERS, BRICK AND ASPHALT.
- 2.0'-4.0' BROWN CLAY, SOME SILT AND SAND, TRACE GRAVEL, CL-ML, FILL.
- 4.0'-5.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH BRICKS.
- 5.0'-9.0' GREY/BROWN CLAY, SOME SILT, TRACE SAND AND GRAVEL, CL-ML, FILL WITH WOOD AND BRICKS.
- 9.0'-17.0' GREY, WET, SILT, TRACE SAND, ML, FILL WITH STRONG ORGANIC ODOR STUMPS, METAL, BRICK, OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES.

END OF TEST PIT AT 17.0 FEET. NO WATER ENCOUNTERED.

TP - 11 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.3' TOPSOIL
- 0.3'-2.0' BROWN, MOIST, CLAY, SOME SILT, TRACE SAND AND GRAVEL, CL-ML, FILL WITH ROOTS AND STUMPS.
- 2.0'-18.0' BROWN, DRY, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH BRICKS, METAL, HOUSEHOLD REFUSE, PLASTIC, WOOD, ASH, METAL PIPES.

END OF TEST PIT AT 18.0 FEET. NO WATER ENCOUNTERED.

TP - 12 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.3' TOPSOIL WITH SMALL ROOTS
- 0.3'-1.5' LIGHT BROWN, MOIST, SAND, SOME SILT, TRACE GRAVEL, SM, FILL.
- 1.5'-8.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES. REFUSAL AT 8.0 FEET AT SHALE BEDROCK.

END OF TEST PIT AT 8.0 FEET. NO WATER ENCOUNTERED.

TP - 13 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.5' TOPSOIL WITH SMALL ROOTS
- 0.5'-1.5' LIGHT BROWN, MOIST, SAND, SOME SILT, TRACE GRAVEL, SM, FILL.
- 1.5'-5.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES. REFUSAL AT 5.0 FEET AT SHALE BEDROCK.

END OF TEST PIT AT 5.0 FEET. NO WATER ENCOUNTERED.

TP - 14 (EXCAVATED 12/11/18 WITH KUBOTA KX121-3 MINI EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES, BRICKS.
- 3.0'-6.0' DRY, BRICKS, CONCRETE PIECES, METAL STRAPS, AND DEMOLISHED BUILDING DEBRIS. SIDEWALLS COLLAPSING, UNABLE TO EXCAVATE DEEPER.

END OF TEST PIT AT 6.0 FEET. NO WATER ENCOUNTERED.

TP - 15 (EXCAVATED 12/11/18 WITH KUBOTA KX121-3 MINI EXCAVATOR)
- 0.0'-0.3' TOPSOIL
- 0.3'-5.4' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH ROOTS.
- 5.4-6.0' SIMILAR WITH MORE GRAVEL AND WEATHERED SHALE.
- 6.0'-6.1' WEATHERED SHALE BEDROCK. REFUSAL AT 6.1 FEET.

END OF TEST PIT AT 6.0 FEET. WATER FILLED HOLE TO 5 FEET.

TP - 16 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR. MOVED ABOUT 10' NORTHEAST OF STAKE ON HILLSIDE)
- 0.0'-0.2' TOPSOIL
- 0.2'-12.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES, BRICKS, METAL, CONCRETE CHUNKS, MULTIPLE CONCRETE SLABS ABOUT 8" THICK AND APPROXIMATELY 4'X4', TIRES. UNABLE TO EXCAVATE BEYOND 12 FEET.

END OF TEST PIT AT 12.0 FEET. NO WATER ENCOUNTERED.

TP - 17 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.2' TOPSOIL
- 0.2'-16.0' DARK BROWN, MOIST SILTY SAND, LITTLE GRAVEL, SM, FILL WITH OCCASIONAL COBBLE AND BOULDER SIZED SHALE PIECES, METAL 1.5" DIAMETER CONDUIT OR PIPES, BRICKS, PVC PIPE, CONCRETE BLOCKS (TREE ROOTS TO ABOUT 4' DEEP) BECOMES DRY AT ABOUT 4'.
- 15.0'-16.0' GREY, WET SILT, ML, POSSIBLE NATIVE. UNABLE TO REACH DEEPER WITH EXCAVATOR.

END OF TEST PIT AT 16.0 FEET. NO WATER ENCOUNTERED.

TP - 18 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.3' TOPSOIL
- 0.3'-6.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, FILL WITH BRICKS, WOOD, METAL.
- 6.0'-16.0' BROWN, MOIST, CLAY, SOME SILT, TRACE SAND, CL-ML, FILL.
- 16.0'-18.0' DRY, BRICK, CONCRETE CHUNKS AND CONSTRUCTION DEBRIS INCLUDING WOOD, ASH, CONDUIT AND PIPES.

END OF TEST PIT AT 18.0 FEET. NO WATER ENCOUNTERED.

TP - 19 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-6.0' BROWN, MOIST TO WET, SILTY SAND, LITTLE GRAVEL, SM, PROBABLE NATIVE WITH OCCASIONAL ROUND COBBLES.
- 6.0'-7.0' GREY/BROWN, WET, MOTTLED SILT AND CLAY, LITTLE SAND, TRACE GRAVEL, ML-CL, NATIVE. WATER PERCHED ON TOP OF SILT/CLAY LAYER SEEPING INTO HOLE.
- 7.0'-10.0' BROWN, MOIST TO WET SILTY SAND, LITTLE GRAVEL, SM, NATIVE.
- 10.0'-11.0' SIMILAR EXCEPT WET AND GREY. SIDEWALLS COLLAPSING AT ABOUT 7'.

END OF TEST PIT AT 11.0 FEET. PERCHED WATER AT ABOUT 6 FEET. WATER TABLE AT ABOUT 10 FEET.

TP - 20 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-4.0' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 4.0'-4.5' WEATHERED SHALE BEDROCK. REFUSAL AT 4.5 FEET.

END OF TEST PIT AT 4.5 FEET. NO WATER ENCOUNTERED. (NOT ENOUGH SOIL FOR INFILTRATION TESTS.)

TP - 21 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-1.9' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 1.9'-2.1' WEATHERED SHALE BEDROCK. REFUSAL AT 2.1 FEET.

END OF TEST PIT AT 2.1 FEET. NO WATER ENCOUNTERED. (NOT ENOUGH SOIL FOR INFILTRATION TESTS.)

TP - 22 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-4.5' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 4.5'-4.7' WEATHERED SHALE BEDROCK. REFUSAL AT 4.7 FEET.

END OF TEST PIT AT 4.7 FEET. NO WATER ENCOUNTERED.

TP - 23 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.3' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 3.3'-3.4' WEATHERED SHALE BEDROCK. REFUSAL AT 3.4 FEET.

END OF TEST PIT AT 3.4 FEET. NO WATER ENCOUNTERED.

TP - 24 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.7' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 3.7'-3.9' WEATHERED SHALE BEDROCK. REFUSAL AT 3.9 FEET.

END OF TEST PIT AT 3.9 FEET. NO WATER ENCOUNTERED.

TP - 25 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-5.9' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 5.9'-6.0' WEATHERED SHALE BEDROCK. REFUSAL AT 6.0 FEET.

END OF TEST PIT AT 6.0 FEET. NO WATER ENCOUNTERED.

TP - 26 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.7' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 3.7'-3.9' WEATHERED SHALE BEDROCK. REFUSAL AT 3.9 FEET.

END OF TEST PIT AT 3.9 FEET. NO WATER ENCOUNTERED.

TP - 27 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-0.8' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 0.8'-0.9' WEATHERED SHALE BEDROCK. REFUSAL AT 0.9 FEET.

END OF TEST PIT AT 0.9 FEET. NO WATER ENCOUNTERED.

TP - 28 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.8' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 3.8'-4.0' WEATHERED SHALE BEDROCK. REFUSAL AT 4.0 FEET.

END OF TEST PIT AT 4.0 FEET. NO WATER ENCOUNTERED.

TP - 29 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-0.9' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 0.9'-1.0' WEATHERED SHALE BEDROCK. REFUSAL AT 1.0 FEET.

END OF TEST PIT AT 1.0 FEET. NO WATER ENCOUNTERED.

TP - 30 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.2' TOPSOIL
- 0.2'-0.2' WEATHERED SHALE BEDROCK. REFUSAL AT 0.2 FEET.

END OF TEST PIT AT 0.2 FEET. NO WATER ENCOUNTERED.

TP - 31 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1 ' TOPSOIL
- 0.1'-4.1' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 4.1'-4.3' WEATHERED SHALE BEDROCK. REFUSAL AT 4.3 FEET.

END OF TEST PIT AT 4.3 FEET. NO WATER ENCOUNTERED.

TP - 32 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-1.9' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 1.9'-2.0' WEATHERED SHALE BEDROCK. REFUSAL AT 2.0 FEET.

END OF TEST PIT AT 2.0 FEET. NO WATER ENCOUNTERED.

TP - 33 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-3.4' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 3.4'-3.5' WEATHERED SHALE BEDROCK. REFUSAL AT 3.5 FEET.

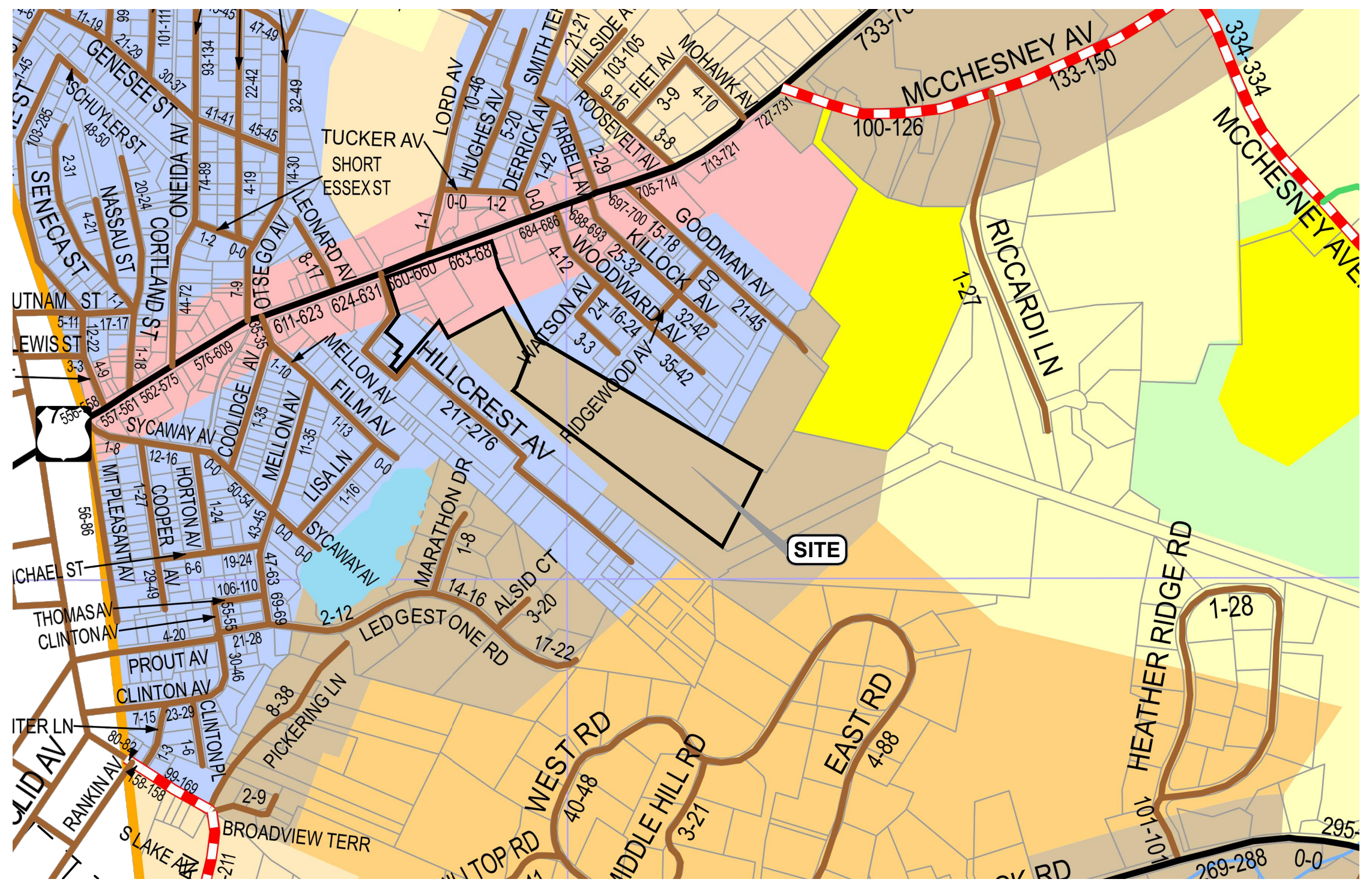
END OF TEST PIT AT 3.5 FEET. NO WATER ENCOUNTERED.

TP - 34 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.2' TOPSOIL
- 0.2'-0.2' WEATHERED SHALE BEDROCK. REFUSAL AT 0.2 FEET.

END OF TEST PIT AT 0.2 FEET. NO WATER ENCOUNTERED.

TP - 35 (EXCAVATED 12/10/18 WITH KOBELCO SK170 EXCAVATOR)
- 0.0'-0.1' TOPSOIL
- 0.1'-2.9' BROWN, MOIST, SILTY SAND, LITTLE GRAVEL, SM, NATIVE WITH WEATHERED SHALE.
- 2.9'-3.0' WEATHERED SHALE BEDROCK. REFUSAL AT 3.0 FEET.

END OF TEST PIT AT 3.0 FEET. NO WATER ENCOUNTERED.



Zoning Legend

ZONE, ZONE DEFINITION

- 🟨 A-40, Agricultural
- 🟥 B-15, Commercial
- ⬜ IND, Industrial
- 🟦 OSI, Open Space Institute
- 🟨 PDD, Planned Development District
- 🟦 R-9, Residential
- 🟧 R-15, Residential
- 🟧 R-25, Residential
- 🟫 R-40, Residential
- 🟩 REC, Recreational
- 🟪 S-C, Schools and Cemeteries

ZONING MAP

SCALE: NTS

ZONING ANALYSIS TABLE

ZONING DISTRICT	B-15 - COMMERCIAL DISTRICT & R-9 - RESIDENTIAL 9,000 DISTRICT - USE PERMITTED WITH SITE PLAN APPROVAL						
ZONE CRITERIA	REQUIRED	PROPOSED–LOT 1	PROPOSED–LOT 2	PROPOSED–LOT 3	PROPOSED–LOT 4	TOTAL	VARIANCE
MINIMUM LOT AREA – B-15	15,000 SF	34,202 SF / 0.79± ACRES	219,209 SF / 5.03± ACRES	–		253,411 SF / 5.82± ACRES	NO
MINIMUM LOT AREA – R-9	9,000 SF	33,711 SF / 0.77± ACRES	–	–	1,520 SF / 0.03± ACRES	35,231 SF / 0.81± ACRES	NO
MINIMUM LOT AREA – R-25	25,000 SF	–	–	668,754 SF / 15.35± ACRES		668,754 SF / 15.35± ACRES	NO
TOTAL LOT AREA	–	67,913 SF / 1.56± ACRES	219,209 SF / 5.03± ACRES	668,754 SF / 15.35± ACRES	1,520 SF / 0.03± ACRES	957,396 SF / 21.98± ACRES	–
MINIMUM LOT WIDTH – B-15	75'	115.0'±	516.7'±			631.7'±	NO
MAX. TOTAL BUILDING COVERAGE–B-15	40%	2.9% (1,985 SF)	18.2% (39,899 SF)			16.5% (41,884 SF)	NO
MIN. FRONT SETBACK – B-15 & R-9	30'	129'±	34'±	–		34'±	NO
MIN. SIDE SETBACK – B-15 & R-9	10' (ONE SIDE) 30' (TOTAL)	14.75'±	10'±	–		10'±	YES
MIN. REAR SETBACK – B-15 & R-9	30'	65.75'±	63'±	–		63'±	NO
MIN. FRONT PARKING SETBACK	10'	10'	3.5'	–		3.5'	YES
MIN. SIDE & REAR PARKING SETBACK	7'	13.75'	6.6'	–		6.6'	YES
RESIDENTIAL DISTRICT PARKING SEPARATION	20'	3.25'	4.3'	–		3.25'	YES
MAX. BUILDING HEIGHT – B-15	30'	27'–4"	29'–10"	–		29'–10"	NO
MIN. BUILDING FLOOR AREA – B-15	1,000 SF	1,985 SF	37,449 SF	–		41,8844 SF	NO
GREEN SPACE – OVERALL	–	60.0% (40,748± SF)	29.2% (63,931± SF)	96.7% (646,614± SF)		79.0% (759,704± SF)	NO
PARKING SPACES	220	52	179	–	–	231	NO
PARKING CRITERIA	REQUIRED: FAST FOOD RESTAURANT (WENDY'S) 1 PER 60 SF AVAILABLE TO PATRONS = 652 SF/60=11 SPACES FAST FOOD RESTAURANT (KFC) 1 PER 60 SF AVAILABLE = 543 SF/60 = 9 SPACES; RETAIL ESTABLISHMENT, LARGE =4 PER 1,000 SF GFA = 21,659 / 1,000 * 4 = 87 SPACES EXISTING GYM = 113 SPACES TOTAL REQUIRED: 220 SPACES PROPOSED: 231 SPACES PROPOSED						

TEST PIT DATA (CONT.):

TP - 36
- 0.0'-0.5' TOPSOIL
- 0.5'-0.5' WEATHERED BEDROCK. REFUSAL AT 0.5 FEET.

END OF TEST PIT AT 0.5 FEET. NO WATER ENCOUNTERED.

TP - 37
- 0.0'-0.5' TOPSOIL
- 0.5'-0.5' WEATHERED BEDROCK. REFUSAL AT 0.5 FEET.

END OF TEST PIT AT 0.5 FEET. NO WATER ENCOUNTERED.

BORING DATA:

TB - 8 (BORING)
- 0.0'-2.0' BROWN, MOIST, LOOSE, SILTY SAND, LITTLE GRAVEL , SM, FILL WITH ROCK FRAGMENTS.
- 2.0'-4.0' SIMILAR EXCEPT MEDIUM DENSE
- 4.0'-6.0' SIMILAR EXCEPT LOOSE WITH ASPHALT FRAGMENTS
- 6.0'-8.0' SIMILAR EXCEPT MEDIUM DENSE, MOSTLY DELETERIOUS CONSTRUCTION DEBRIS.
- 8.0'-10.0' SIMILAR EXCEPT LOOSE
- 10.0'- 12.0' SIMILAR EXCEPT MEDIUM DENSE
- 12.0'-14.0' SIMILAR, MOSTLY BRICK FRAGMENTS
- 14.0'-16.0' SIMILAR
- 16.0'-18.0' SIMILAR, REFUSAL AT 18 FEET. SET CASING AT 18 FEET AND BEGIN CORING OPERATIONS WITH NWD4 CORE BARREL. CORED THROUGH A BOULDER.
- 20.0'-20.3' NO RECOVERY
- 25.0'-27.0' WOOD/MULCH AND BRICK FRAGMENTS
- 30.0-32.0' SIMILAR EXCEPT LOOSE
- 35.0'-37.0' GREY, WET, LOOSE, SILTY SAND, LITTLE GRAVEL, SM, POSSIBLE NATIVE
- 40.0-40.9' WEATHERED SHALE
- 43' REFUSAL AT 43', AUGERED TO 44 FEET
- 49' NASSAU FORMATION - SLATE, SHALE, THIN QUARTZITE

END OF BORING AT 49 FEET

FOR DATA ON BORING B-1 THRU B-5 SEE TERRACON SOIL REPORT DATED 4/30/15

VARIANCES REQUIRED

1. RELIEF FROM LANDSCAPING ISLANDS AT EVERY 10 PARKING STALLS PER SECTION 160-40- C (4) (A)
2. RELIEF FROM 20 FOOT SEPARATION OF PARKING AREA TO RESIDENTIAL DISTRICT PER SECTION 160-44 H (6)
3. RELIEF FROM 7 FOOT SIDE AND REAR PARKING SETBACK PER SECTION 160-57 A (18)
4. RENEWAL OF PRIOR APPROVAL FOR FRONT 10 FOOT PAVEMENT SETBACK FOR DRIVE-THRU (WENDY'S/TACO BELL PAD SITE
5. RELIEF FROM SIDE BUILDING SETBACK FOR FUTURE ALDI ADDITION

WETLAND SUMMARY TABLE

AREA A = 33,808 ± SF
AREA B-C = 51,778± SF
AREA D = 8,400± SF

TOTAL WETLAND 93,986 SF/ 2.16 ACRES

ABBREVIATIONS

SPOT ELEVATION	X ELEV.
TOP OF STAIRS	TS
BOTTOM OF STAIRS	BS
FINISH GRADE	FG
SMOOTH INTERIOR POLYETHYLENE PIPE	SICPP
FINISH FLOOR ELEVATION	FFE
TOP OF CURB	TC
BOTTOM OF CURB	BC
TOP OF GUTTER	TG
BOTTOM OF GUTTER	BG
FLARED END SECTION	FES

EXISTING LEGEND

CONTOUR MINOR	– – – – 1549 – – – –
CONTOUR MAJOR	— — — 1550 — — —
EDGE OF PATH	– – – – – – – – – –
WOODS/BRUSH	⌒⌒⌒⌒⌒⌒⌒⌒
FENCE	—x—x—x—x—x—
DITCH LINE	——— · · ———
CATCH BASIN	▦
STORM LINE	—— ST —— ST ——
OVERHEAD WIRES	—oh—oh—oh—
UTILITY POLE	Ø
SEWER/FORCE MAIN	—— FM ——
PROPERTY LINE	——— — — — ———
WATERLINE	—— W ——
HYDRANT	⚲
GUIDERAIL	—o—o—o—
SIGNS/BILLBOARDS	—o— ▭
MONUMENTS	⊡
WETLAND BOUNDARY & HATCH	▨

PROPOSED LEGEND

CONTOUR MINOR	—— 1549 ——
CONTOUR MAJOR	—— 1550 ——
SANITARY LINE	—— SAN —— SAN ——
SANITARY MANHOLE	●
WATER LINE	—— W —— W ——
WATER VALVE	WV ⋈
THRUST BLOCK	▲
HYDRANT	●
BLDG. WATER SUPPLY	—WS—
BLDG. WATER SHUT OFF VALVE	○
BLDG. SEWER LATERAL	— SL —
CATCH BASIN	■
STORM LINE	— ST — ST — ST —
FLOWLINE OF GUTTER	– – – – – – – –
BLDG. FOUNDATION DRAIN	—— SPL OR —FD—
PROPERTY LINE	—— – – —— – – ——
SETBACK LINE	– – – – – – – –
CLEARING LINE	⌒⌒⌒⌒⌒⌒⌒⌒
SIDEWALK	▒
SIGNAGE	
LIGHTING	▫—● LP1
LANDSCAPING	⊕
RETAINING WALL	━━━━━━
UNDERDRAIN	— UD — UD — UD — UD — UD —
FIELD INLET DRAIN	▪
ASPHALT/STRUCTURE REMOVAL	⊠
CONCRETE/UTILITY REMOVAL	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

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NOTES & LEGEND

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE:
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-1

LOT TABLE	
PARCEL ID.	SIZE (ACRES)
101.8–9–2	0.35±
101.8–9–7	1.49±
101.8–9–16	0.81±
101.8–9–6.11	19.33±
TOTAL	21.98±

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EXISTING CONDITIONS PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-2

File Name: C:\Users\alborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-2)
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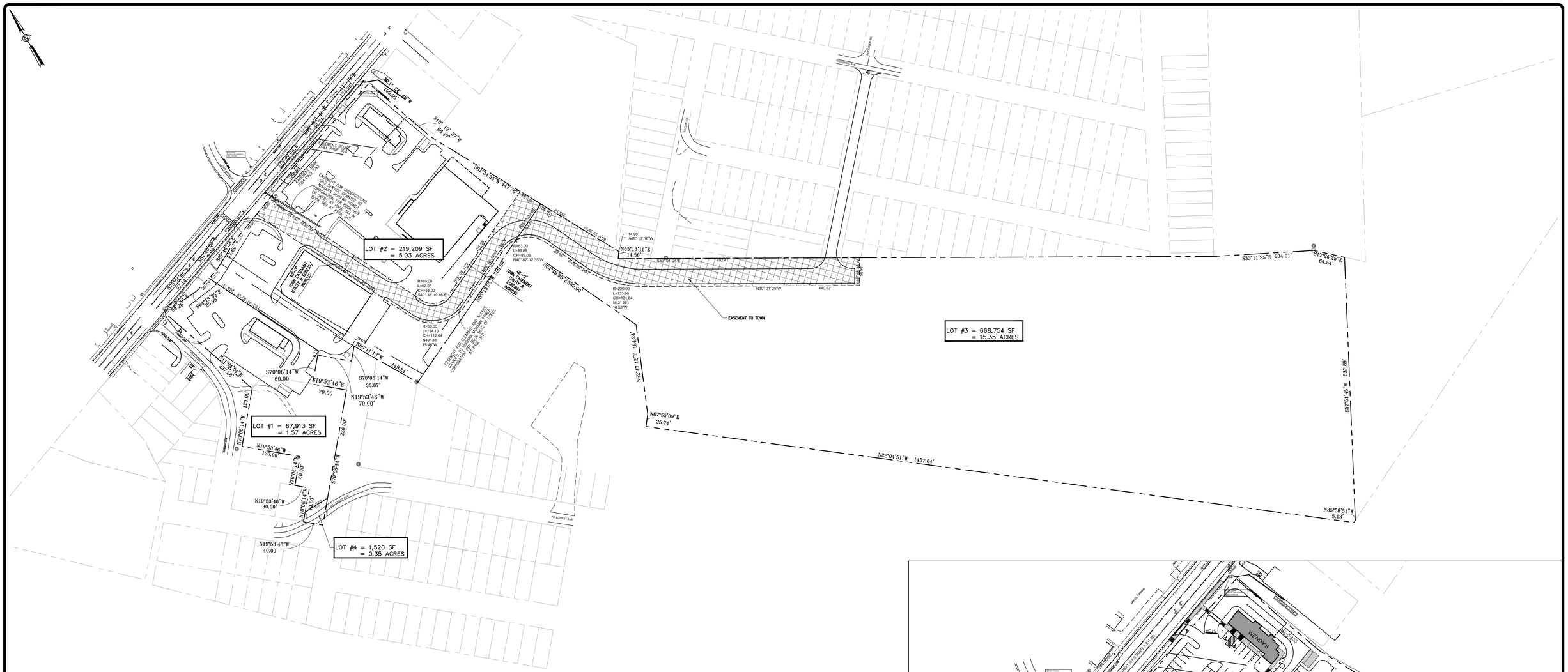
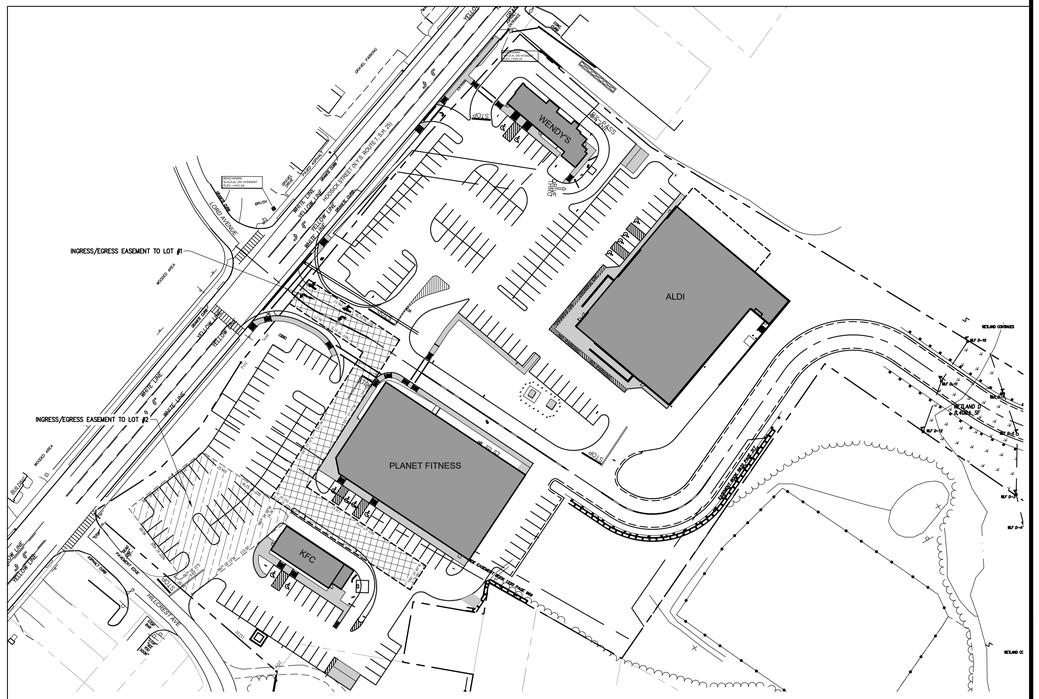


SUBDIVISION PLAN AND EASEMENT TO TOWN

SCALE: 1"=80'-0"

LOT TABLE					
LOT#	SIZE (SF)	SIZE (ACRES)	LOCATION	E911 ADDRESS	USE
LOT #1	67,913 ±	1.56 ±	KFC	658 HOOSICK RD, TROY NY	COMMERCIAL
LOT #2	219,209 ±	5.03 ±	PLANET FITNESS	660 HOOSICK RD, TROY NY	COMMERCIAL
			ALDI'S	662 HOOSICK RD, TROY NY	
			WENDY'S	664 HOOSICK RD, TROY NY	
LOT #3	668,754 ±	15.35 ±	–	–	VACANT
LOT #4	1,520 ±	0.03 ±	–	–	TO TOWN



PRIVATE EASEMENTS

SCALE: 1"=60'-0"

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No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

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SUBDIVISION PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=80'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-3

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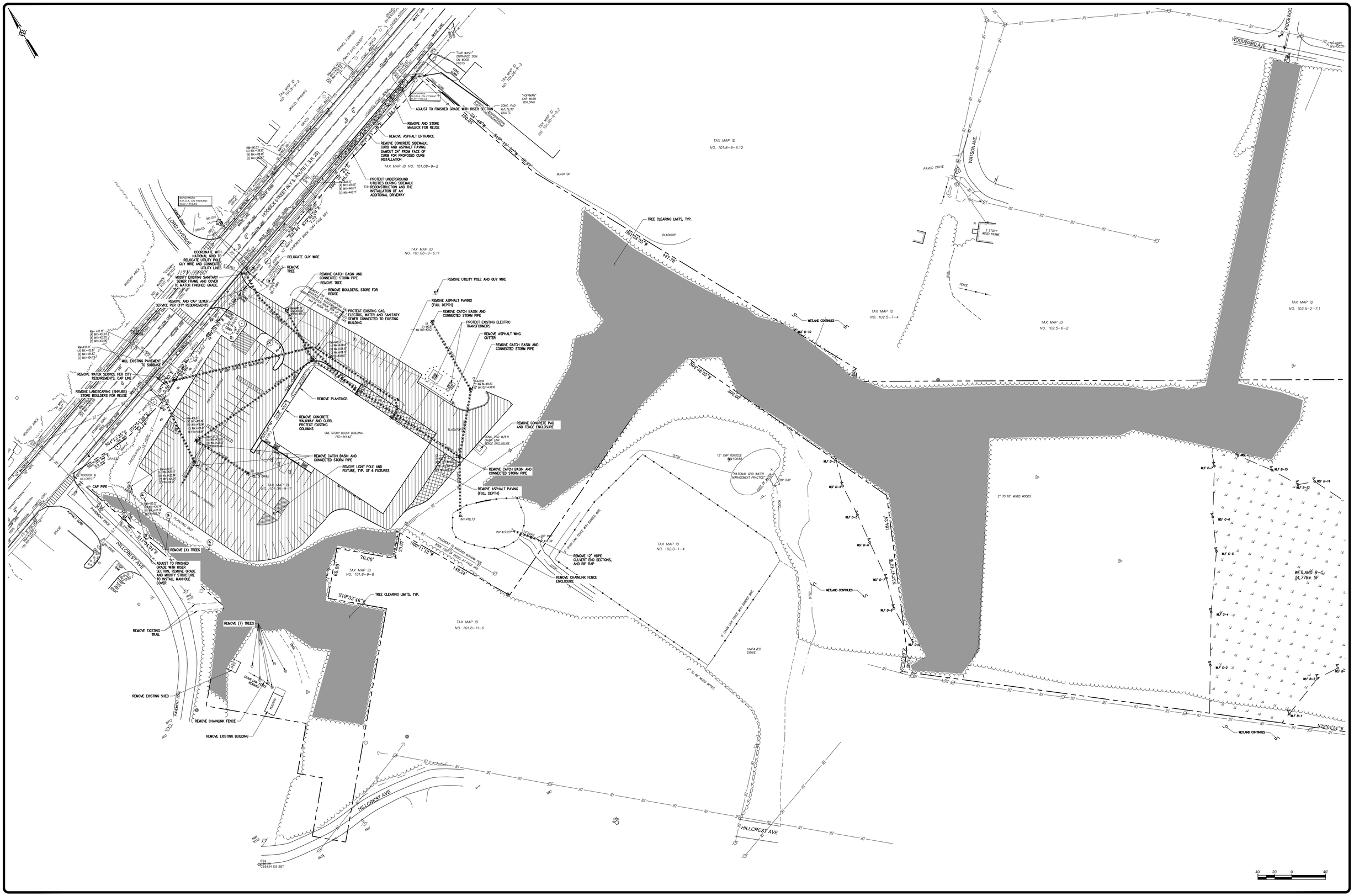

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REMOVALS PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
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DATE: JUNE 2020

C-4

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HEAVY DUTY ASPHALT DIAGRAM

SCALE: 1"=60'-0"

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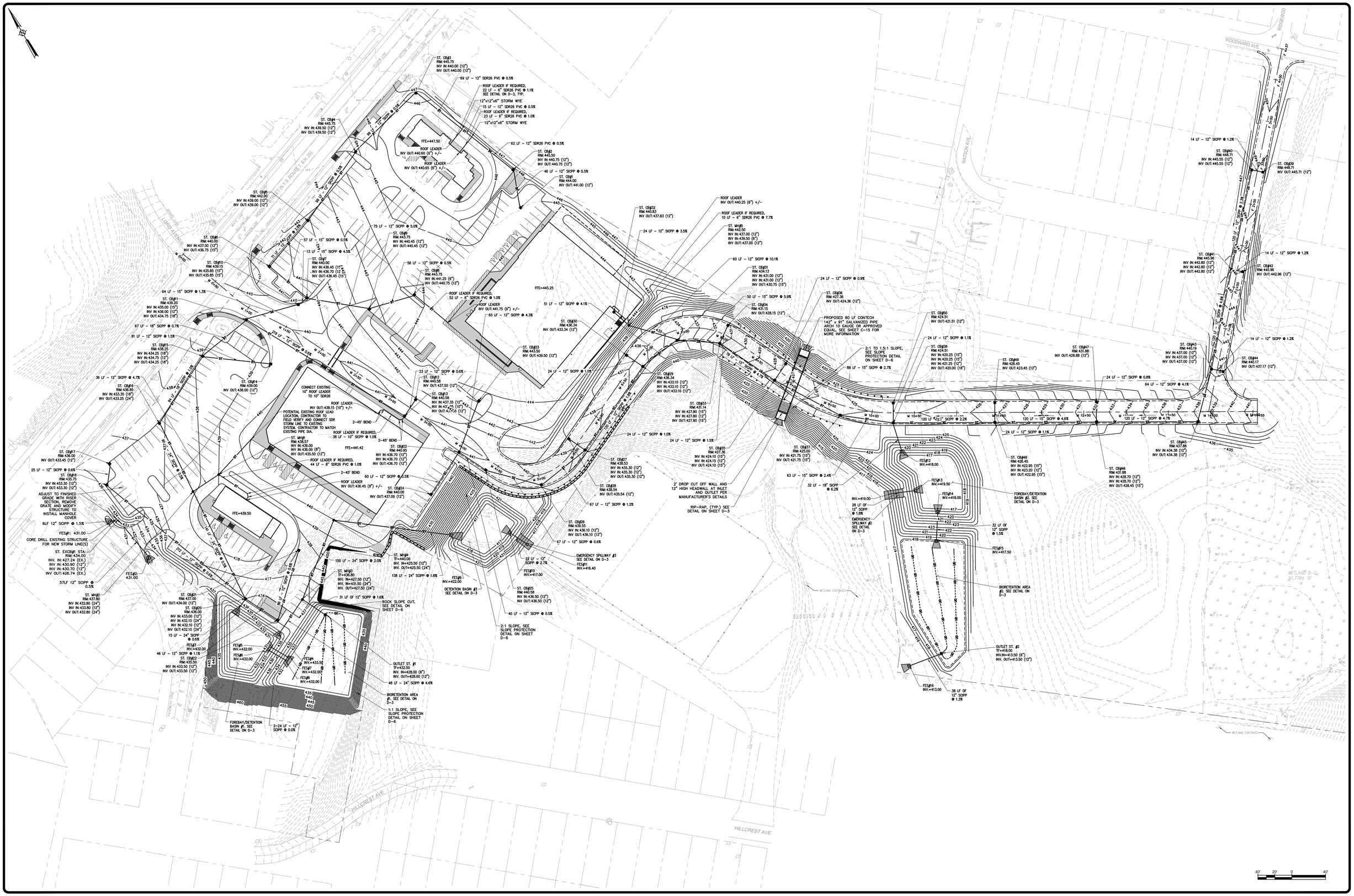
LAYOUT PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-5



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DAVE LEON

GRADING AND DRAINAGE PLAN

658 - 664 HOOSICK ROAD

TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-6

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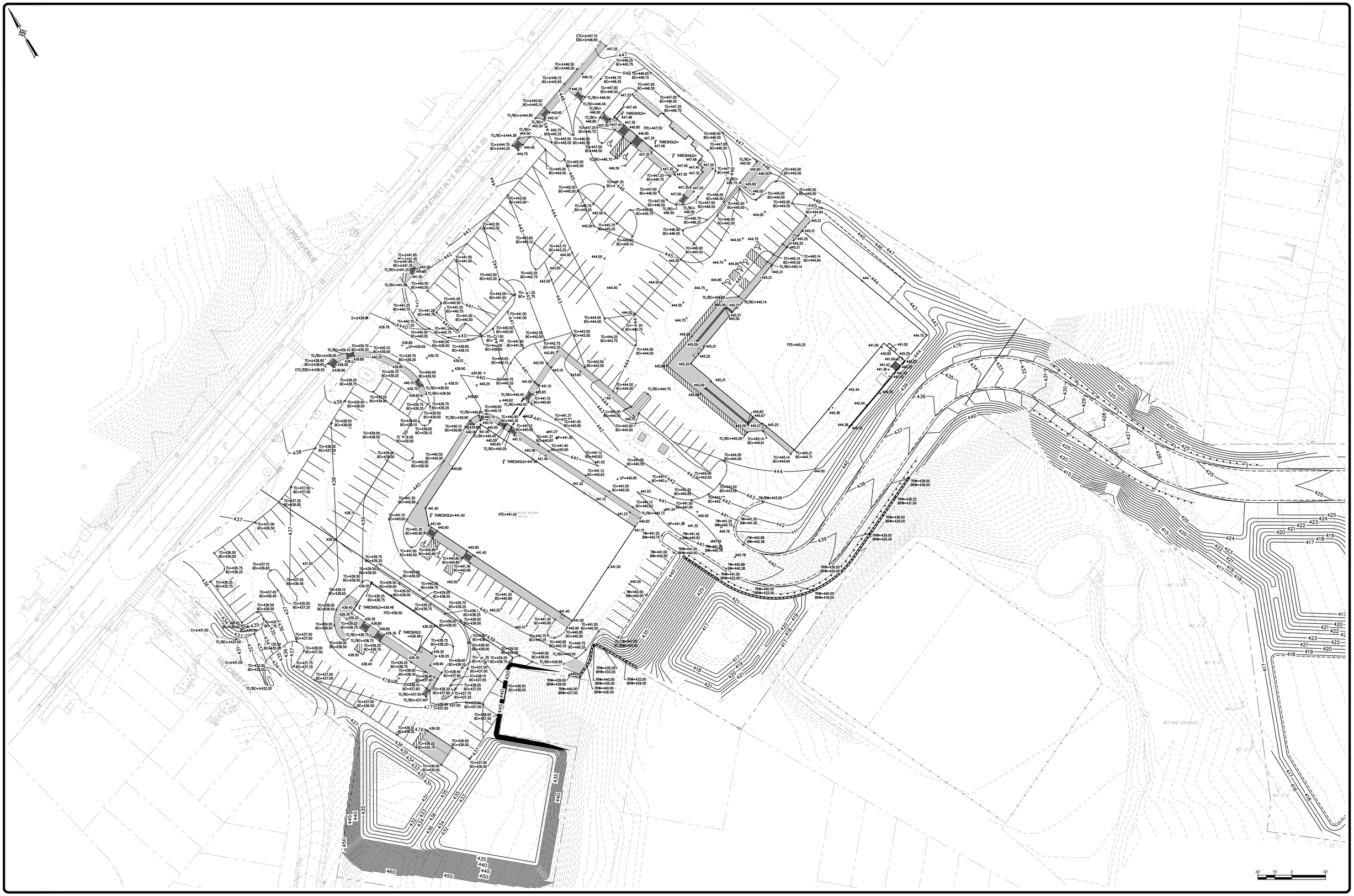

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DAVE LEON

SPOT GRADING PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=30'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-7

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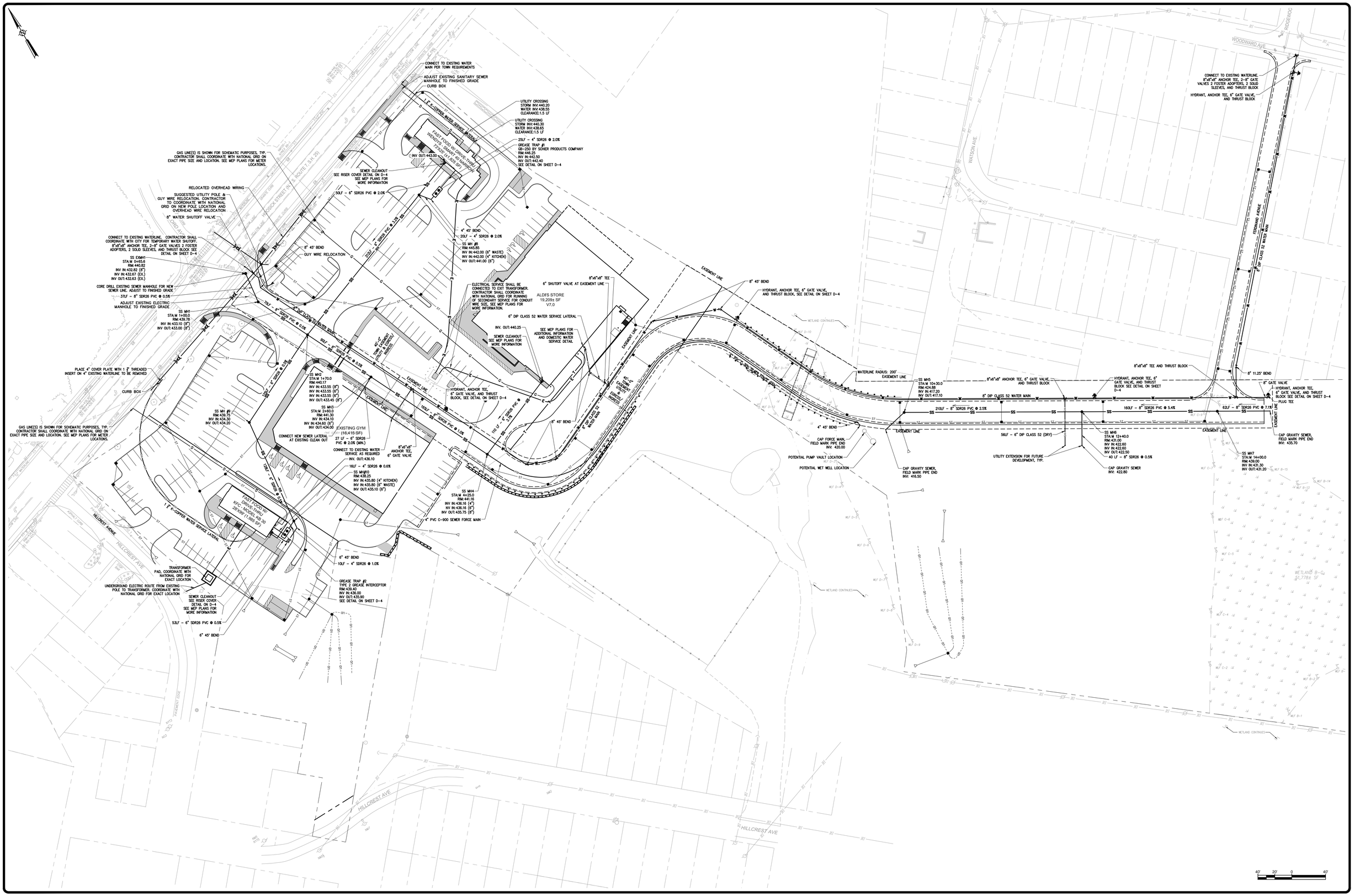

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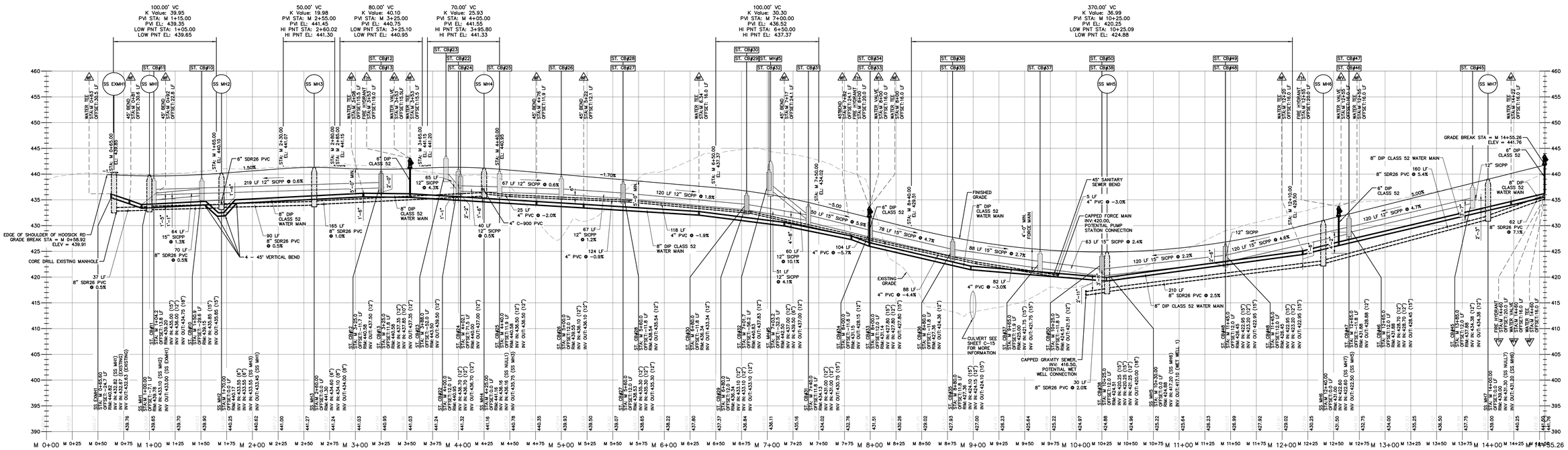
DAVE LEON

UTILITY PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

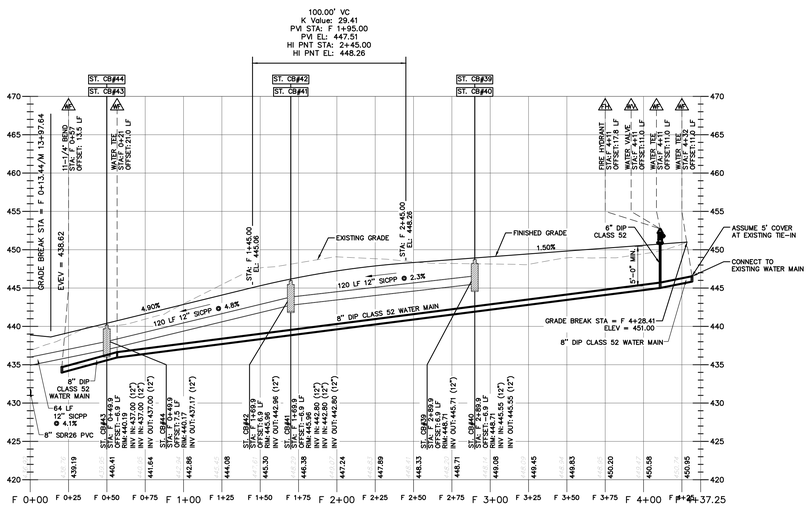
SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-8



UTILITY PROFILE VIEW: MAIN ROAD

SCALE: 1" = 20'-0" (1H:5V)



UTILITY PROFILE VIEW: FERDINAND AVENUE

SCALE: 1" = 20'-0" (1H:5V)

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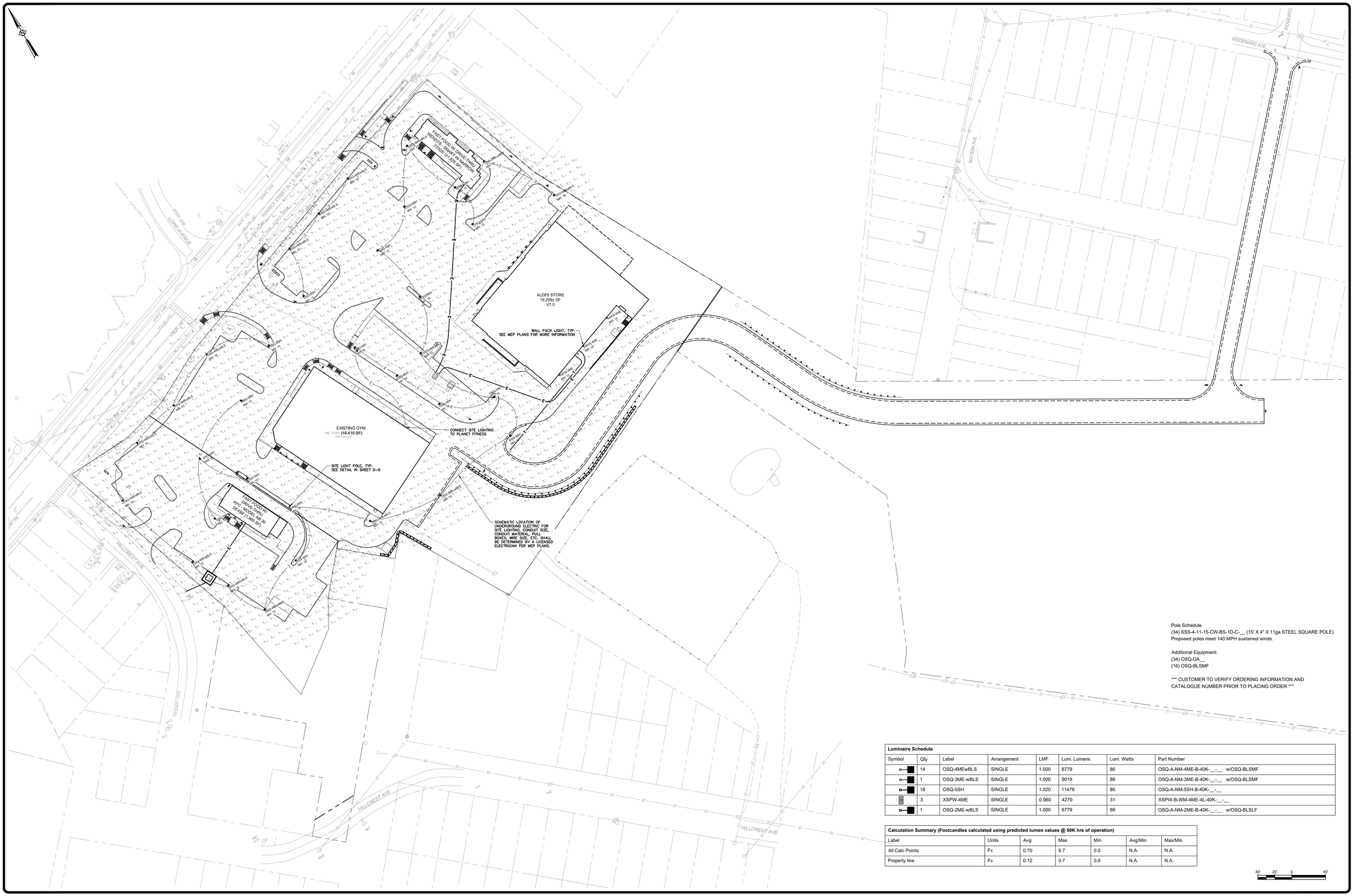
UTILITY PROFILE PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-9



Pole Schedule
(34) SSS-4-11-15-CW-BS-1D-C-__ (15' X 4" X 11ga STEEL SQUARE POLE)
Proposed poles meet 140 MPH sustained winds.

Additional Equipment:
(34) OSQ-DA__
(16) OSQ-BLSMF

*** CUSTOMER TO VERIFY ORDERING INFORMATION AND CATALOGUE NUMBER PRIOR TO PLACING ORDER ***

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LMF	Lum. Lumens	Lum. Watts	Part Number
	14	OSQ-4MEwBLS	SINGLE	1.000	8779	86	OSQ-A-NM-4ME-B-40K-__-__ w/OSQ-BLSMF
	1	OSQ-3ME-wBLS	SINGLE	1.000	9019	86	OSQ-A-NM-3ME-B-40K-__-__ w/OSQ-BLSMF
	18	OSQ-5SH	SINGLE	1.020	11478	86	OSQ-A-NM-5SH-B-40K-__-__
	3	XSPW-4ME	SINGLE	0.960	4270	31	XSPW-B-WM-4ME-4L-40K-__-__
	1	OSQ-2ME-wBLS	SINGLE	1.000	8779	86	OSQ-A-NM-2ME-B-40K-__-__ w/OSQ-BLSLF

Calculation Summary (Footcandles calculated using predicted lumen values @ 50K hrs of operation)

Label	Units	Avg	Max	Min	Avg/Min	Max/Min
All Calc Points	Fc	0.70	9.7	0.0	N.A.	N.A.
Property line	Fc	0.12	0.7	0.0	N.A.	N.A.

40' 20' 0 40'

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LIGHTING PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
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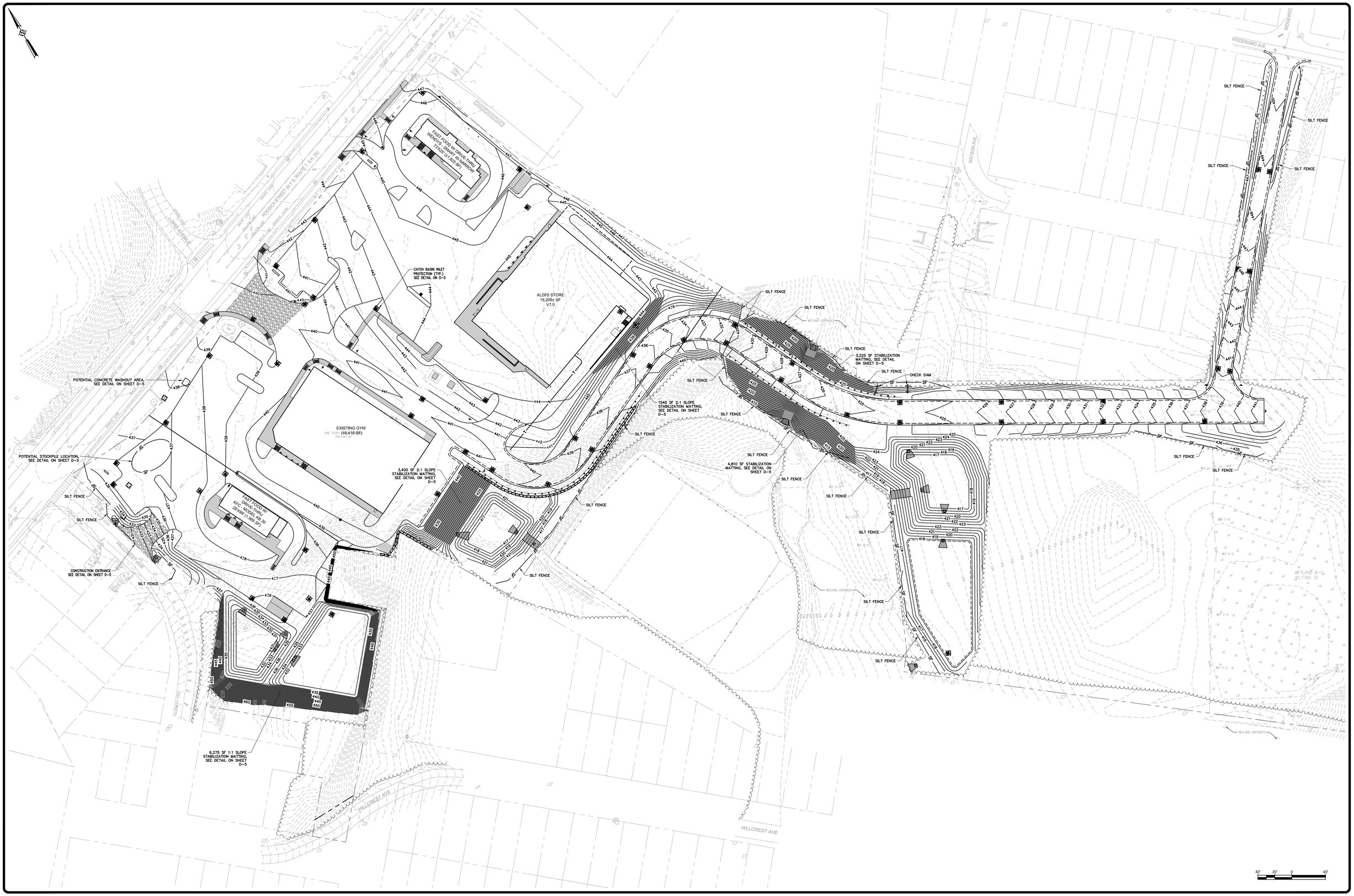

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EROSION CONTROL PLAN

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-11

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-11)
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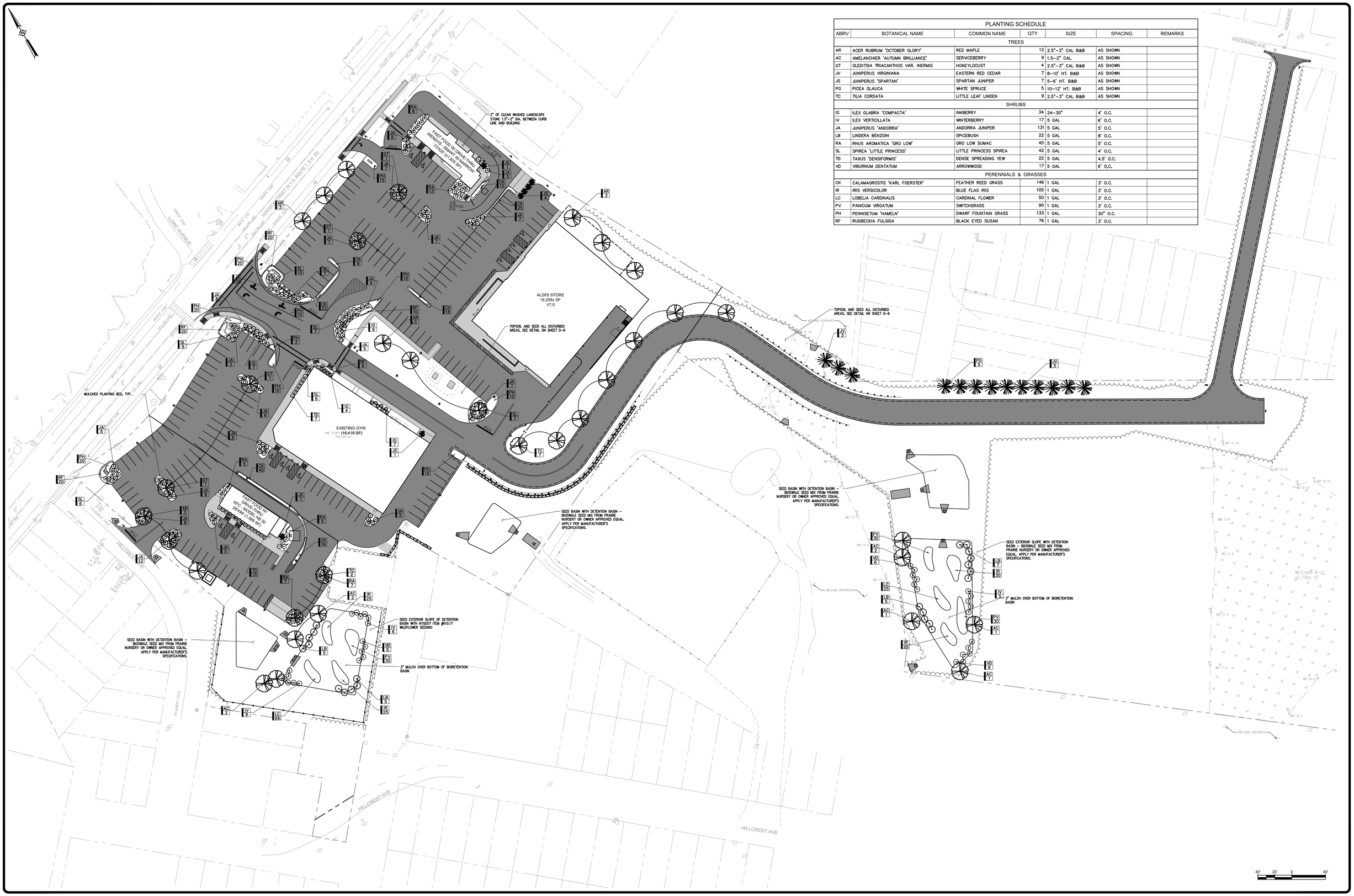

PLANTING SCHEDULE

ABRV	BOTANICAL NAME	COMMON NAME	QTY	SIZE	SPACING	REMARKS
TREES						
AR	ACER RUBRUM 'OCTOBER GLORY'	RED MAPLE	12	2.5"–3" CAL B&B	AS SHOWN	
AC	AMELANCHIER 'AUTUMN BRILLIANCE'	SERVICEBERRY	9	1.5–2" CAL.	AS SHOWN	
GT	GLEDITSIA TRIACANTHOS VAR. INERMIS	HONEYLOCUST	4	2.5"–3" CAL B&B	AS SHOWN	
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	7	8–10' HT. B&B	AS SHOWN	
JS	JUNIPERUS 'SPARTAN'	SPARTAN JUNIPER	7	5–6' HT. B&B	AS SHOWN	
PG	PICEA GLAUCA	WHITE SPRUCE	5	10–12' HT. B&B	AS SHOWN	
TC	TILIA CORDATA	LITTLE LEAF LINDEN	9	2.5"–3" CAL B&B	AS SHOWN	
SHRUBS						
IG	ILEX GLABRA 'COMPACTA'	INKBERRY	34	24–30"	4' O.C.	
IV	ILEX VERTICILLATA	WINTERBERRY	17	5 GAL	6' O.C.	
JA	JUNIPERUS 'ANDORRA'	ANDORRA JUNIPER	131	5 GAL	5' O.C.	
LB	LINDERA BENZOIN	SPICEBUSH	22	5 GAL	8' O.C.	
RA	RHUS AROMATICA 'GRO LOW'	GRO LOW SUMAC	45	5 GAL	5' O.C.	
SL	SPIREA 'LITTLE PRINCESS'	LITTLE PRINCESS SPIREA	42	5 GAL	4' O.C.	
TD	TAXUS 'DENSIFORMIS'	DENSE SPREADING YEW	22	5 GAL	4.5' O.C.	
VD	VIBURNUM DENTATUM	ARROWWOOD	17	5 GAL	6' O,C,	
PERENNIALS & GRASSES						
CK	CALAMAGROSTIS 'KARL FOERSTER'	FEATHER REED GRASS	146	1 GAL	3' O.C.	
IR	IRIS VERSICOLOR	BLUE FLAG IRIS	105	1 GAL	3' O.C.	
LC	LOBELIA CARDINALIS	CARDINAL FLOWER	50	1 GAL	3' O.C.	
PV	PANICUM VIRGATUM	SWITCHGRASS	90	1 GAL	3' O.C.	
PH	PENNISETUM 'HAMELN'	DWARF FOUNTAIN GRASS	133	1 GAL.	30" O.C.	
RF	RUDBECKIA FULGIDA	BLACK EYED SUSAN	76	1 GAL	3' O.C.	

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DAVE LEON

LANDSCAPE PLAN

658 - 664 HOOSICK ROAD

TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=40'
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C-12

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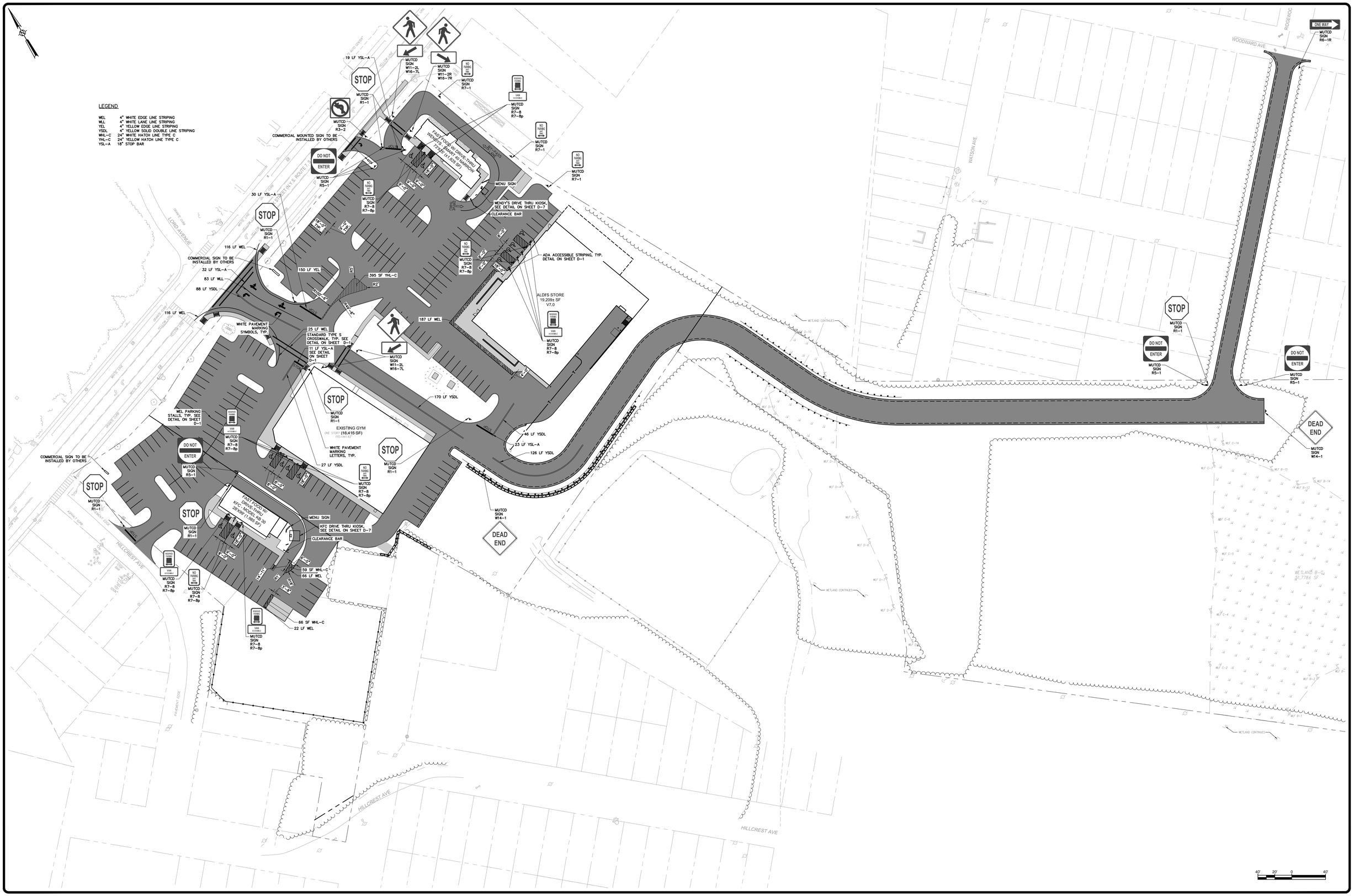

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
DESIGNED BY:	JWE
DRAWN BY:	APY
CHECKED BY:	JWE

DATE DATE

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Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

SIGNING AND STRIPING PLAN

658 - 664 HOOSICK ROAD

TOWN OF BRUNSWICK NEW YORK

SCALE:	1"=40'
CONTRACT No.:	
MJ PROJ. No.:	MJ 972.06-1
DATE:	JUNE 2020

C-13

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-13)
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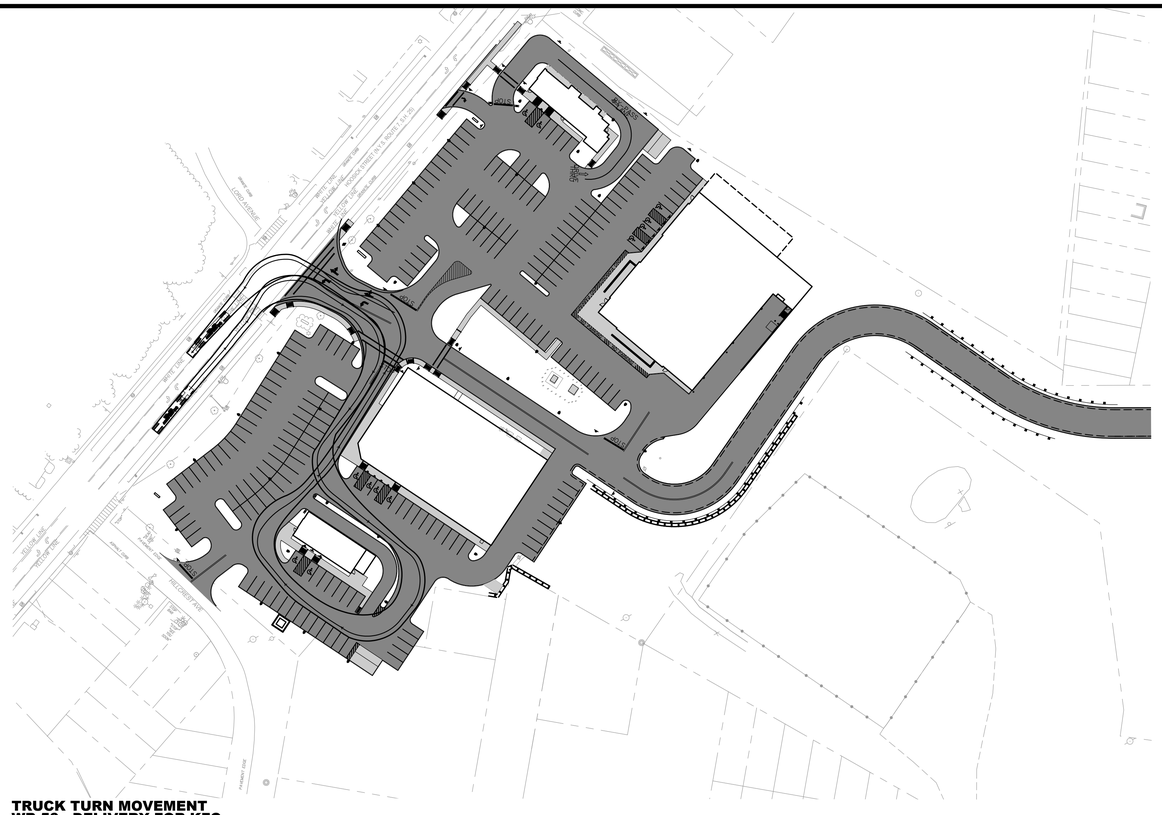
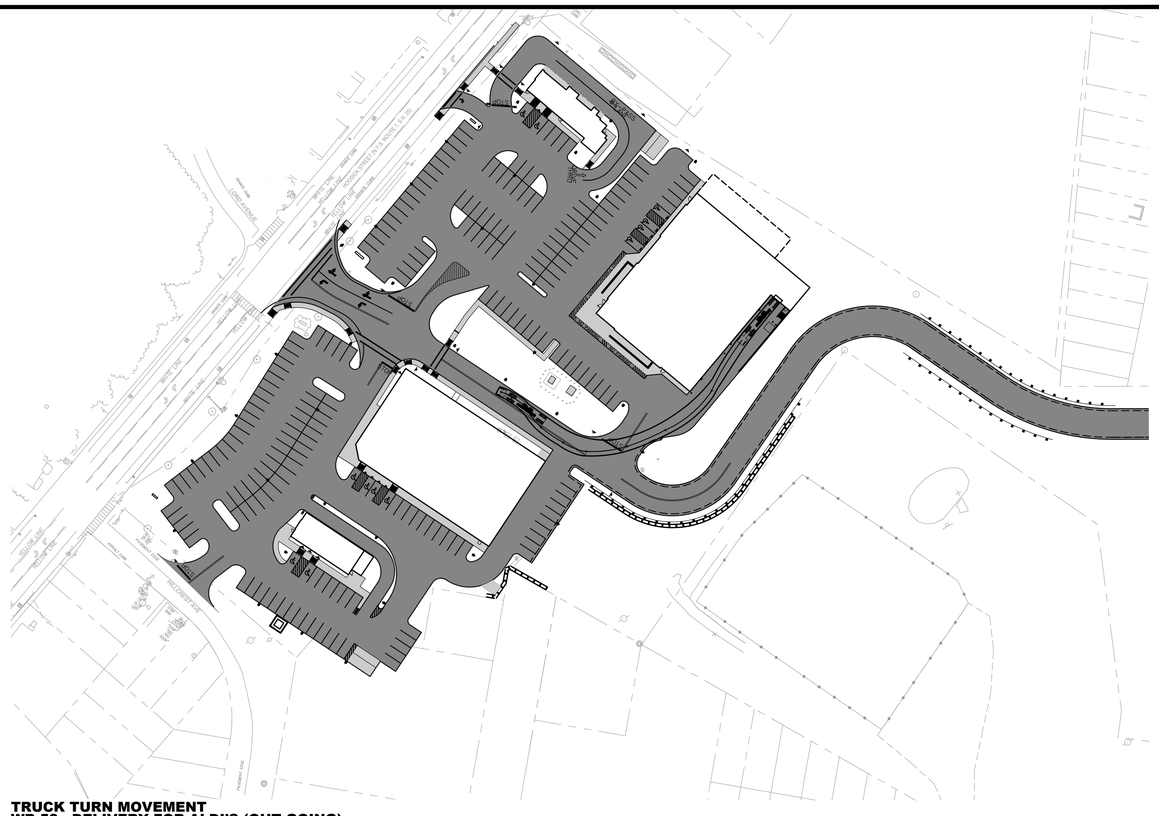
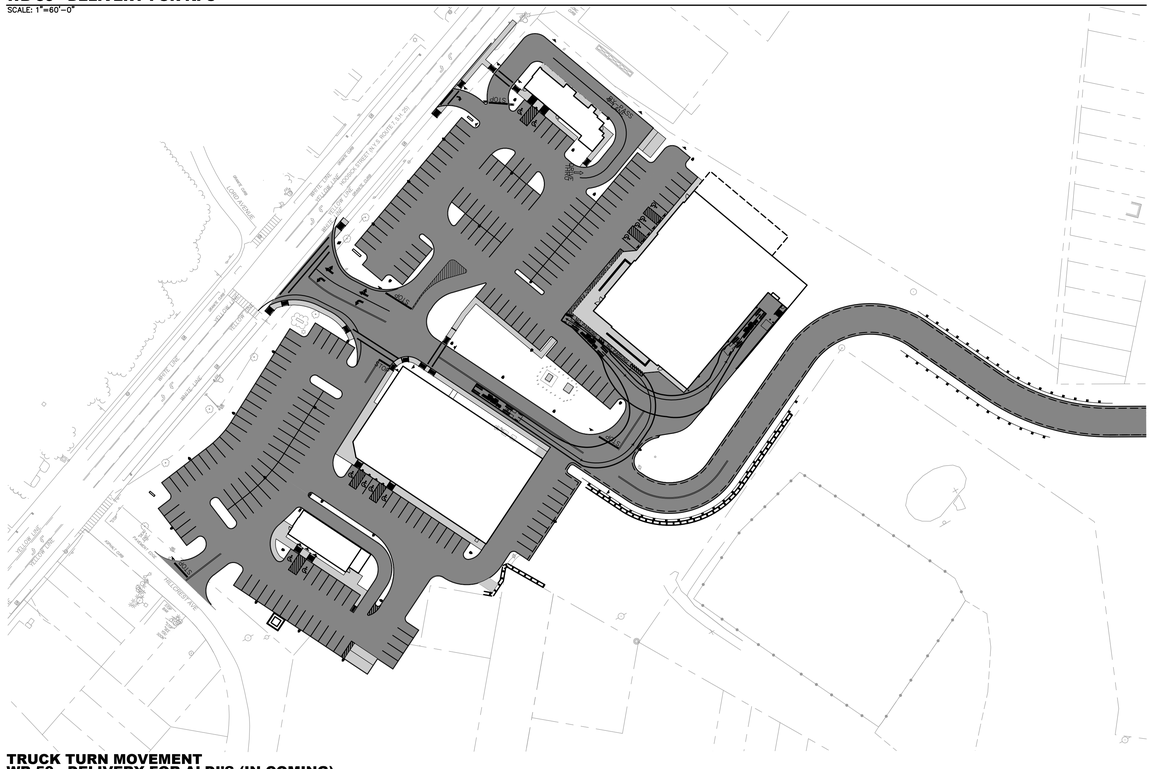


TRUCK TURN MOVEMENT
WB-50 - DELIVERY FOR KFC
SCALE: 1"=60'-0"



TRUCK TURN MOVEMENT
WB-50 - DELIVERY FOR ALDI'S (OUT-GOING)
SCALE: 1"=60'-0"



TRUCK TURN MOVEMENT
WB-50 - DELIVERY FOR ALDI'S (IN-COMING)
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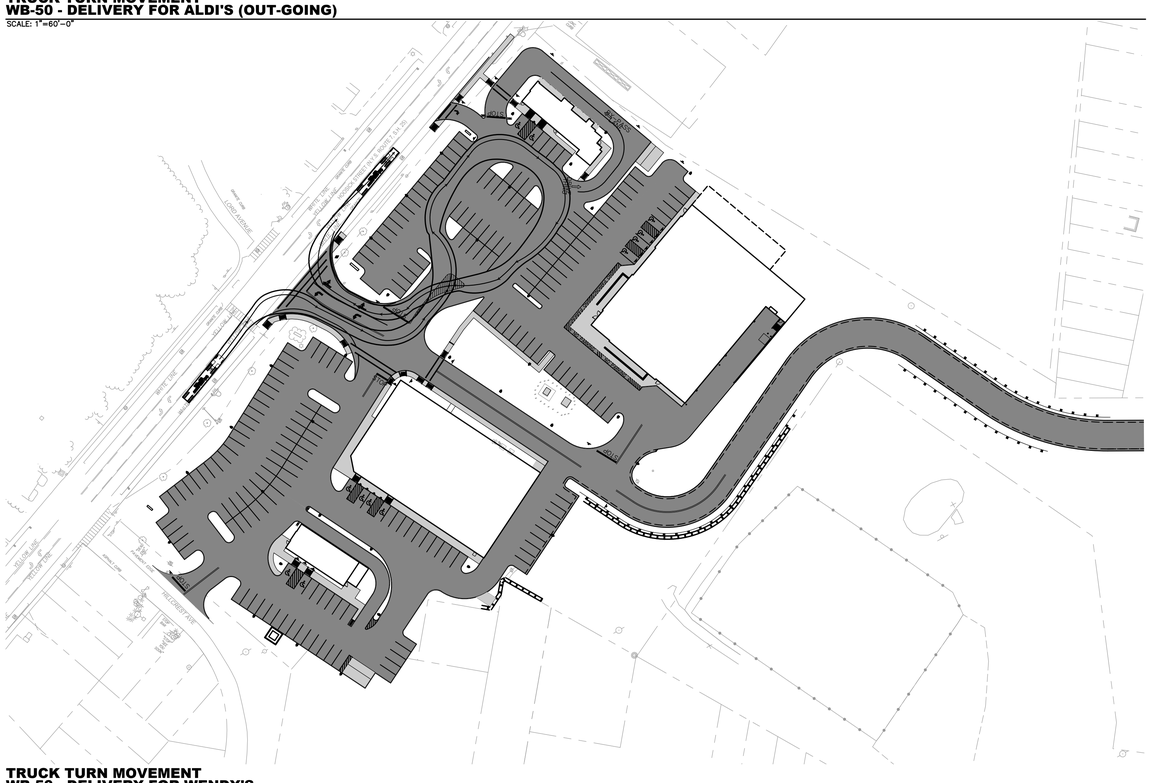

TRUCK TURN MOVEMENT
WB-50 - DELIVERY FOR WENDY'S
SCALE: 1"=60'-0"

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

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1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

TRUCK TURN MOVEMENTS

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=60'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-14

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-14)
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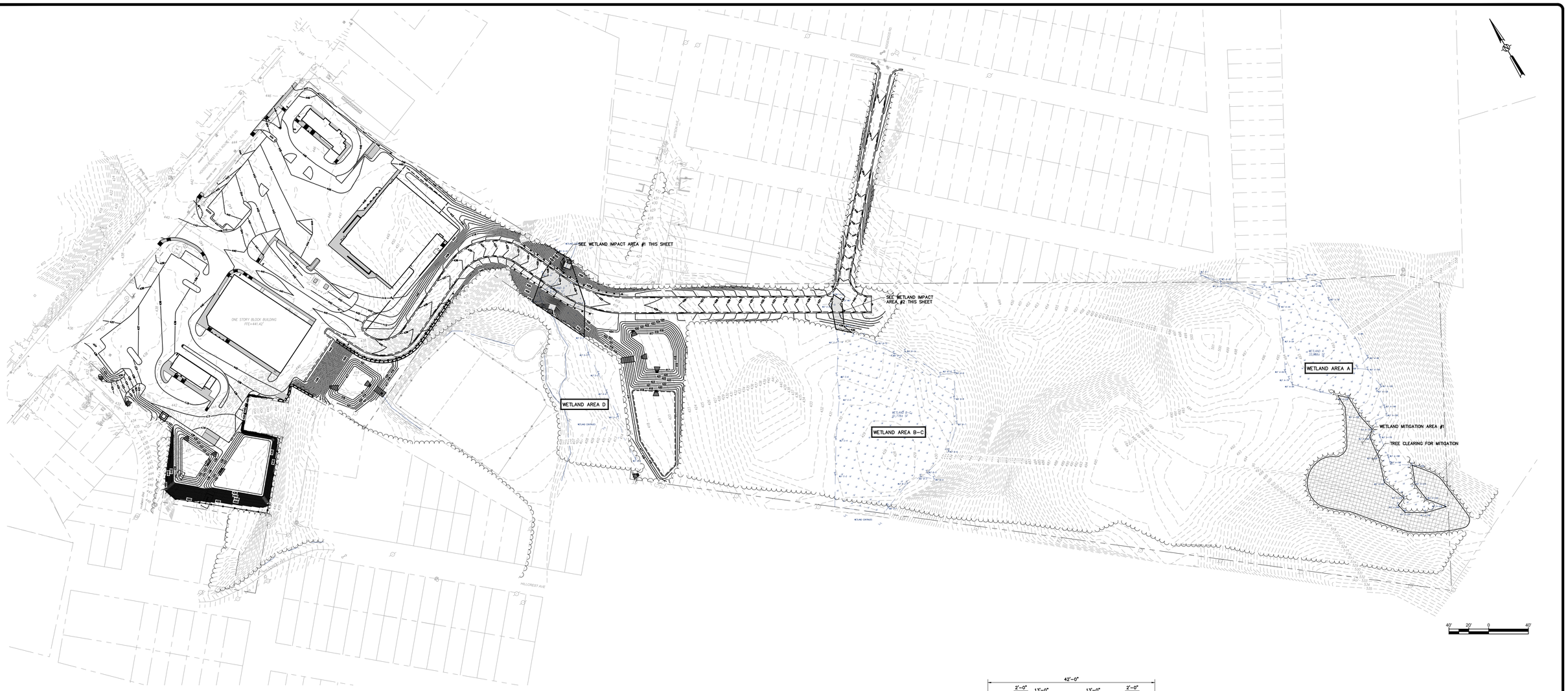
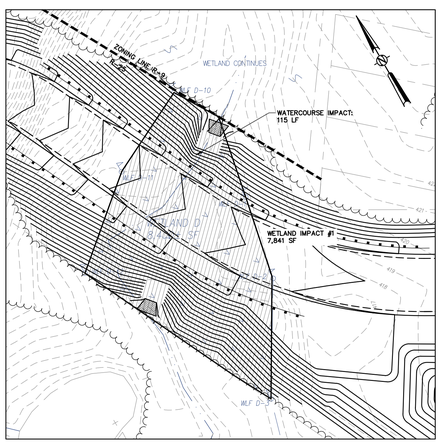


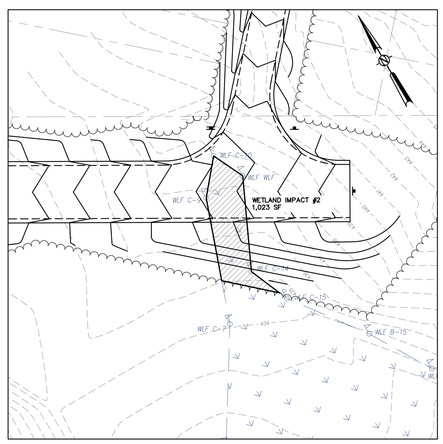
OVERALL SITE PLAN

SCALE: 1" = 70'–0"



WETLAND IMPACT AREA #1

SCALE: 1" = 30'–0"



WETLAND IMPACT AREA #2

SCALE: 1" = 30'–0"

WETLAND SUMMARY TABLE

AREA A	=	33,808 SF / 0.78 ± ACRES	
AREA B–C	=	51,778 SF / 1.19 ± ACRES	
AREA D	=	8,400 SF / 0.19 ± ACRES	
TOTAL WETLAND ACREAGE	=	93,986 SF / 2.16 ± ACRES	

WETLAND IMPACT SUMMARY TABLE

NAME		SIZE	TYPE	REASON
IMPACT AREA #1 (AREA D)	=	7,841 SF	FORESTED	ROAD
IMPACT AREA #2 (AREA B–C)	=	1,023 SF	SCRUB–SHRUB	ROAD
TOTAL WETLAND ACREAGE	=	8,864 SF (0.20 ± ACRES)		

PROPOSED WETLAND MITIGATION TABLE

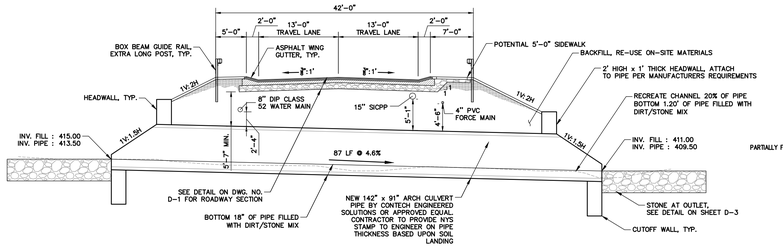
NAME		SIZE
MITIGATION AREA #1	=	25,569 SF
TOTAL WETLAND ACREAGE	=	25,569 SF (0.59 ± ACRES)

STREAM IMPACT SUMMARY TABLE

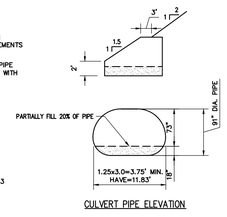
NAME	PERMANENT STREAM IMPACTS (L.F)	TEMPORARY STREAM IMPACTS (L.F.)	VOLUME BELOW OHWM (CU. YDS.)	HYDROLOGIC REGIME	REASON
STREAM IMPACT #1	115		5.3 ±	INTERMITTENT	ROAD CROSSING
TOTAL					

LEGEND

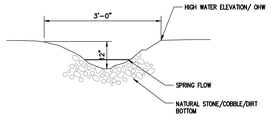
- WETLAND IMPACT AREA
- WETLAND MITIGATION AREA



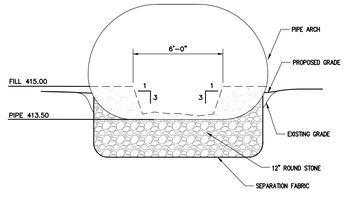
ARCH CULVERT TYPICAL SECTION



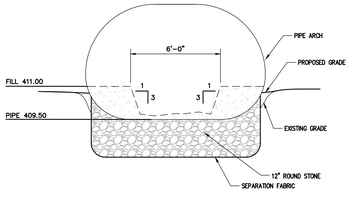
CULVERT PIPE ELEVATION



EXISTING WATER COURSE SECTION



ARCH CULVERT CROSS SECTION: NORTH INVERT



ARCH CULVERT CROSS SECTION: SOUTH INVERT

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

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DAVE LEON

WETLAND IMPACT PLAN

658 - 664 HOOSICK ROAD

TOWN OF BRUNSWICK NEW YORK

SCALE: 1"=70'
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

C-15

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\MJ972-06-1_XENG.dwg (Layout: C-15)
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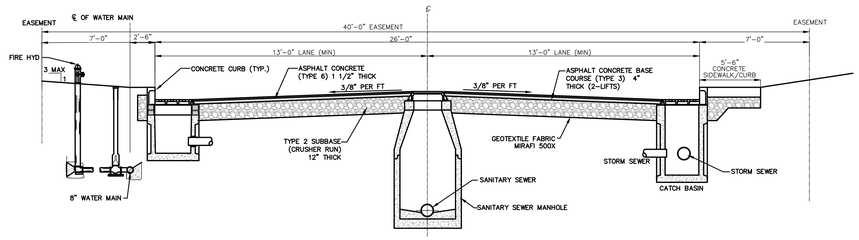
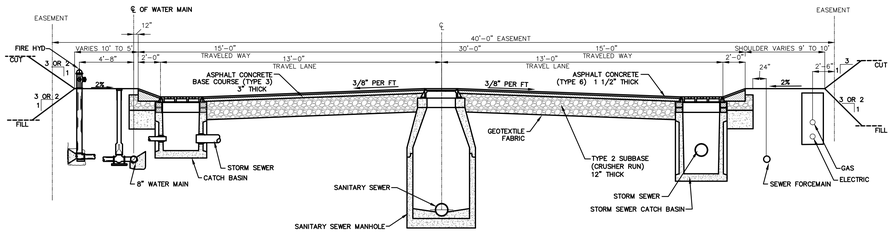
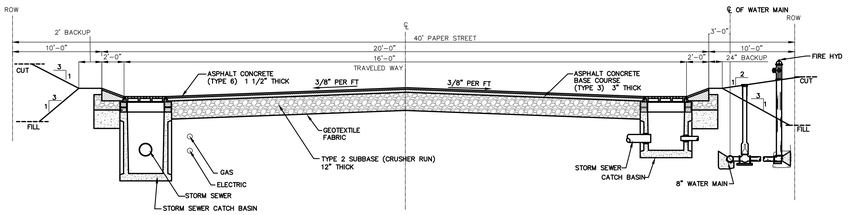


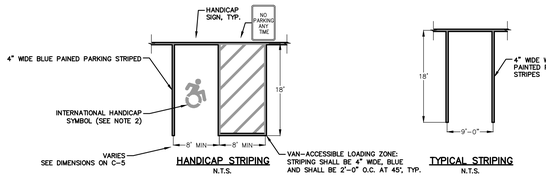
LOCAL RESIDENTIAL STREET WITH HEAVY DUTY PAVEMENT
TYPICAL SECTION 1



LOCAL RESIDENTIAL STREET
TYPICAL SECTION 2



FERDINAND AVENUE ONE WAY ROAD
TYPICAL SECTION



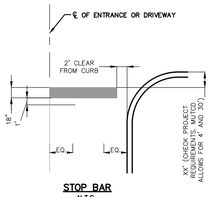
HANDICAP STRIPING
N.T.S.

TYPICAL STRIPING
N.T.S.

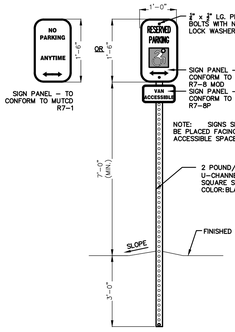
NOTES:

1. ALL DIMENSIONS SHALL BE IN ACCORDANCE WITH ADA STANDARD AND CURRENT ZONING AND SITE REGULATIONS.
2. PAINTED HANDICAP SYMBOL TO BE IN ACCORDANCE W/ ADA STANDARDS
3. SLOPE OF PAVEMENT SURFACE IN HANDICAP PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION.
4. SEE PLAN FOR ACTUAL LOCATION OF SIGNAGE

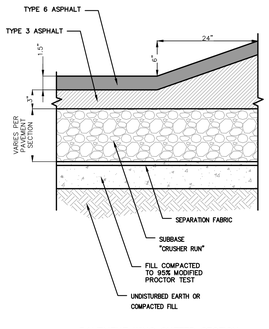
PAVEMENT MARKING DETAIL PAVEMENT STRIPING
N.T.S.



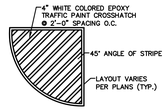
STOP BAR
N.T.S.



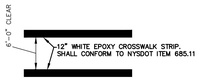
ACCESSIBLE PARKING SIGN
N.T.S.



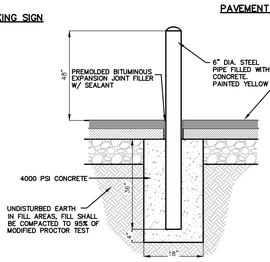
PAVEMENT WING GUTTER SECTION
N.T.S.



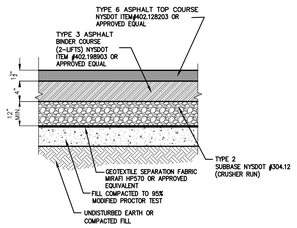
MISCELLANEOUS STRIPING
N.T.S.



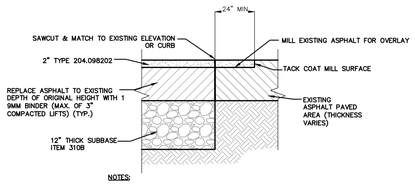
TYPE S CROSSING STRIPING
N.T.S.



BOLLARD
N.T.S.



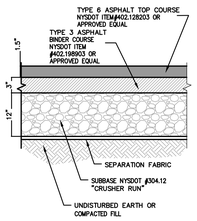
HEAVY DUTY ASPHALT PAVING SECTION
N.T.S.



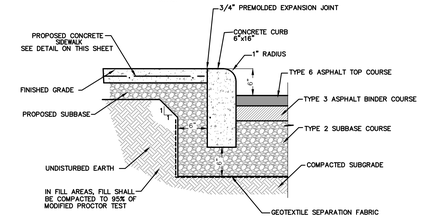
NOTES:

1. ALL JOINTS TO BE SEALED WITH ASPHALT EMULSION (AS-2))
2. NYSDOT ITEM 702-0500 (TYP.) PRIOR TO PLACEMENT OF
3. PROPOSED NEW ASPHALT PAVEMENT.

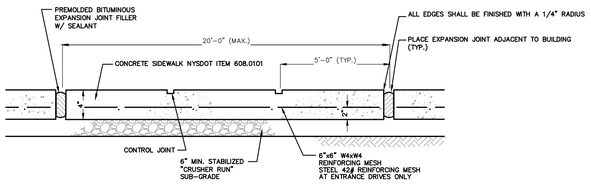
ASPHALT SAWCUT
N.T.S.



TYPICAL ASPHALT PARKING
PARKING LOT SECTION
N.T.S.

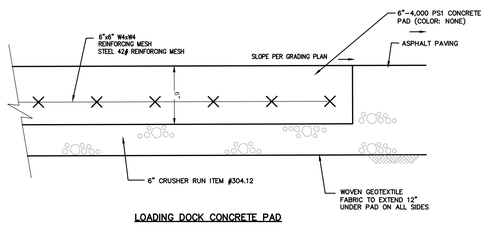


CONCRETE CURB WITH SIDEWALK BEHIND
N.T.S.

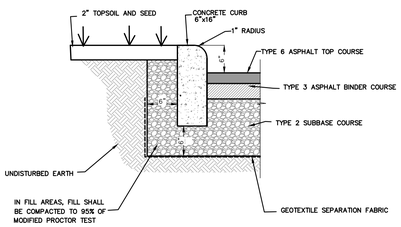


CONCRETE SIDEWALK SECTION
N.T.S.

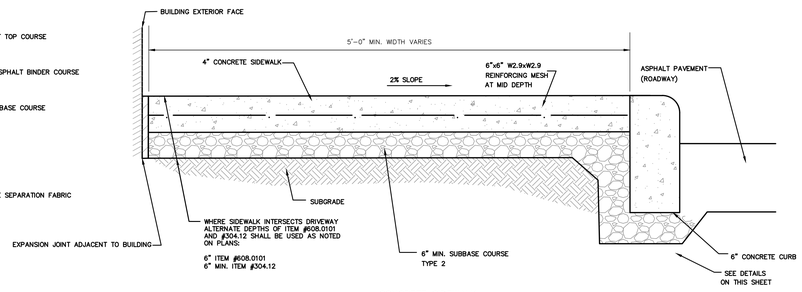
1. THE CONCRETE USED SHALL BE PORTLAND CEMENT, AIR-ENTRAINED, CLASS "A" CONCRETE WITH AN AIR CONTENT OF 5%, MIN., TO 7%, MAX., AND A SLUMP OF THREE INCHES, MIN., TO FIVE INCHES, MAX.
2. ALL CONCRETE SIDEWALK REPLACEMENT SHALL BE TO FULL PANEL LIMITS, PARTIAL PANEL REPLACEMENT SHALL NOT BE ALLOWED.
3. ALL CURBING SHALL BE RESET OR REPLACED IN KIND AS REQUIRED, CONSISTENT IN EVERY RESPECT WITH CITY SPECIFICATION.
4. ALL SIDEWALKS SHALL BE FINISHED WITH A MAGNESIUM FLOAT FINISH UNLESS DIRECTED OTHERWISE BY THE CITY.
   EXPANSION JOINTS TO BE PLACED BETWEEN ADJACENT SLABS, AT BUILDING LINE, AT CURBS, OR AT PENETRATING STRUCTURES.



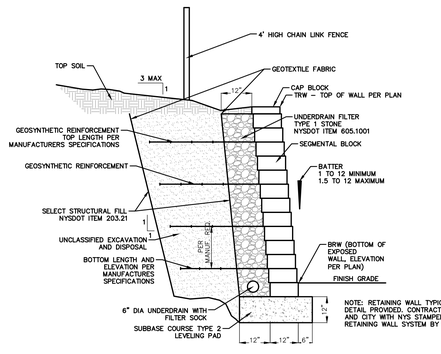
LOADING DOCK CONCRETE PAD
N.T.S.



CONCRETE CURB WITH GRASS BEHIND
N.T.S.

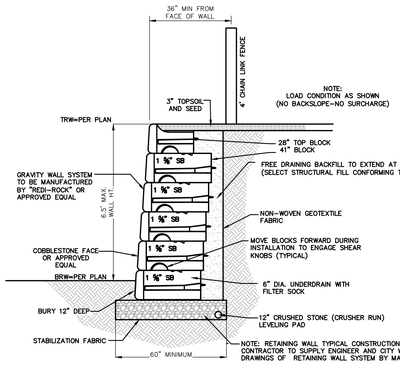


CONCRETE SIDEWALK
N.T.S.



NOTE: RETAINING WALL TYPICAL CONSTRUCTION DETAIL PROVIDED. CONTRACTOR TO SUPPLY ENGINEER AND CITY WITH NYS STAMPED DRAWINGS OF RETAINING WALL SYSTEM BY MANUFACTURER.

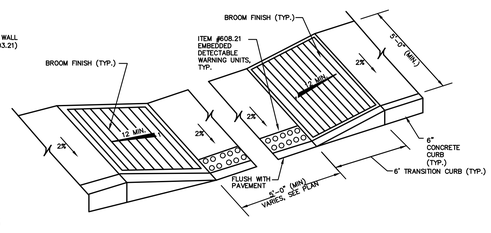
RETAINING WALL
N.T.S.



NOTE: LOAD CONDITION AS SHOWN (NO BACKSLOPE-NO SURCHARGE)

NOTE: RETAINING WALL TYPICAL CONSTRUCTION DETAIL PROVIDED. CONTRACTOR TO SUPPLY ENGINEER AND CITY WITH NYS STAMPED DRAWINGS OF RETAINING WALL SYSTEM BY MANUFACTURER.

GRAVITY WALL
N.T.S.



ADA ACCESSIBLE RAMP #1
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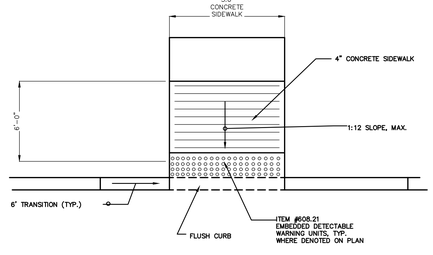

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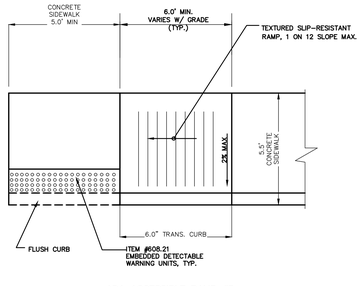

ADA ACCESSIBLE RAMP #3
N.T.S.

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1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

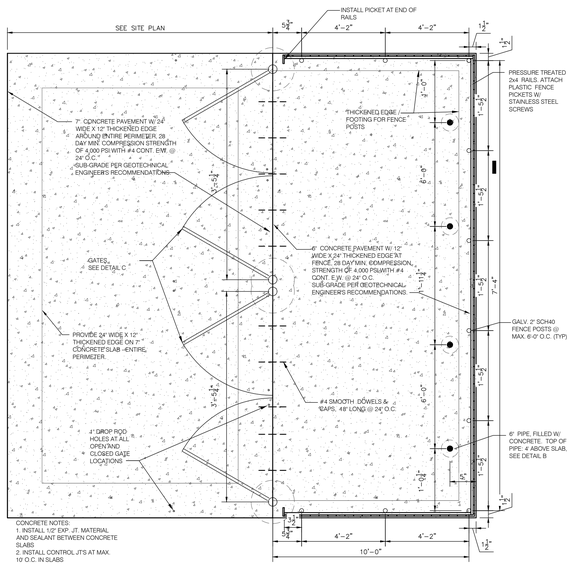
SITE DETAILS

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: AS NOTED
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

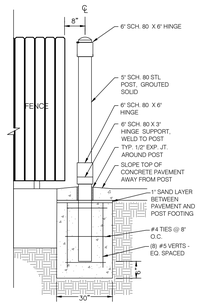
D-1

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\Details.dwg (Layout: D-1)
Date: Fri, Jun 19, 2020 - 2:43 PM (Name: aborza)



CONCRETE NOTES:
1. INSTALL 1/2" EXP. JT. MATERIAL AND SEALANT BETWEEN CONCRETE SLABS.
2. INSTALL CONTROL JT'S AT MAX. 10' O.C. IN SLABS

DUMPSTER PLAN (KFC)
N.T.S.



GATE COLUMN FOOTING (KFC)
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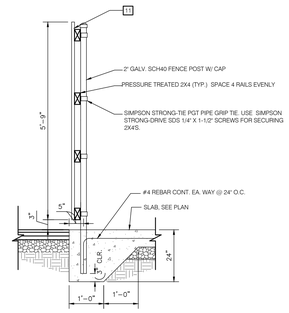

WALL SECTION (KFC)
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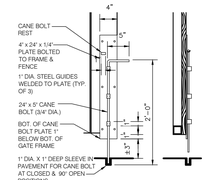

5 CANE BOLT (1 PER GATE)
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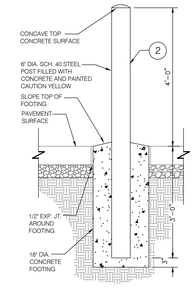

GUARDPOST BOLLARD DETAIL (KFC)
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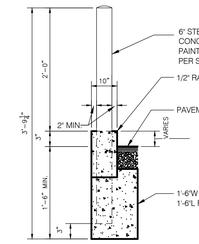

BOLLARD DETAIL (KFC)
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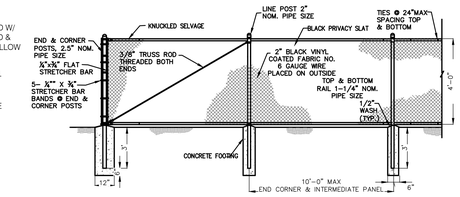


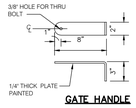
CHAIN LINK FABRIC FENCE
N.T.S.

GATE HARDWARE: ALL HARDWARE AND ACCESSORIES SHALL BE HEAVY GALVANIZED.

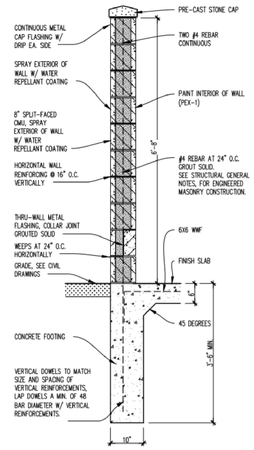
GATE STOP: MUSHROOM TYPE OR FLUSH PLATE WITH ANCHORS SET IN CONCRETE TO ENGAGE THE CENTER DROP ROD OR PLUNGER BAR.

GATE NOTES: (4) EQUAL WIDE x 6-0" HIGH MTL. GATES, TYPE 'B' 1 1/2" DECKING, 22GA. W/ T.S. 1 X .1875 BAR CROSS BRACING WELD AND GRIND SMOOTH ALL CONNECTIONS, TYP. PRIME AND PAINT ALL STEEL COMPONENTS.

SYMBOL	AREA	MANUFACTURER	COLOR
1	GATE FRAME COLOR	SHERWIN WILLIAMS	P-3
2	PIPE BOLLARDS	SHERWIN WILLIAMS	CAUTION YELLOW
11	PICKET FENCE	AZEK	SEE FINISH SCHD. A4.0



GATE HANDLE
N.T.S.



WALL SECTION (WENDY'S)
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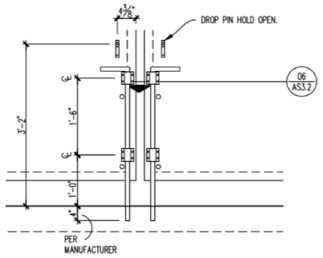
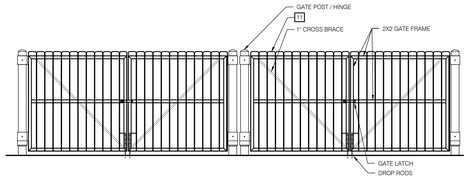
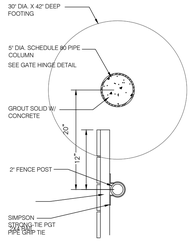


DROP PIN DETAIL
N.T.S.



FRONT ELIVATION (KFC)
N.T.S.



JAMB DETAILS
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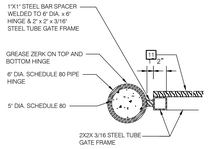

GATE HINGE DETAIL
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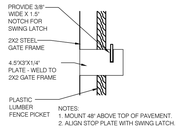
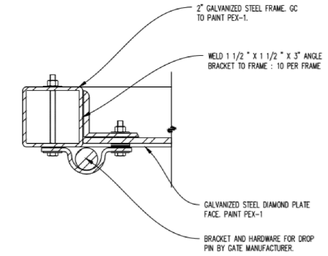
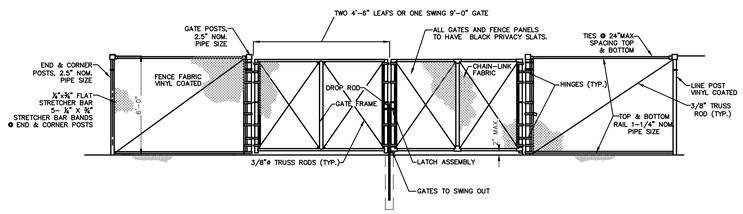


NOTES:
1. MOUNT 48" ABOVE TOP OF PAVEMENT.
2. ALIGN STOP PLATE WITH SWING LATCH

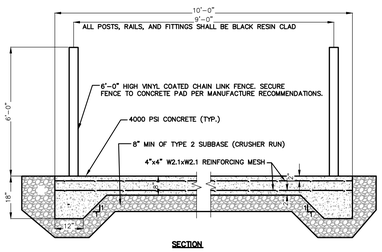
STOP PLATE SECTION
N.T.S.



DROP-PIN DETAIL AT METAL DECK GATE
N.T.S.

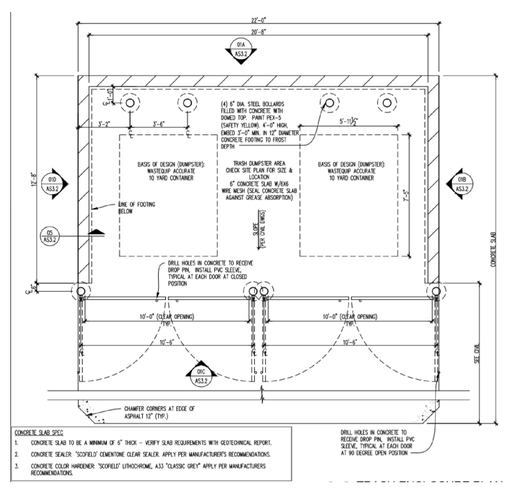


TYPICAL SWING GATE
N.T.S.



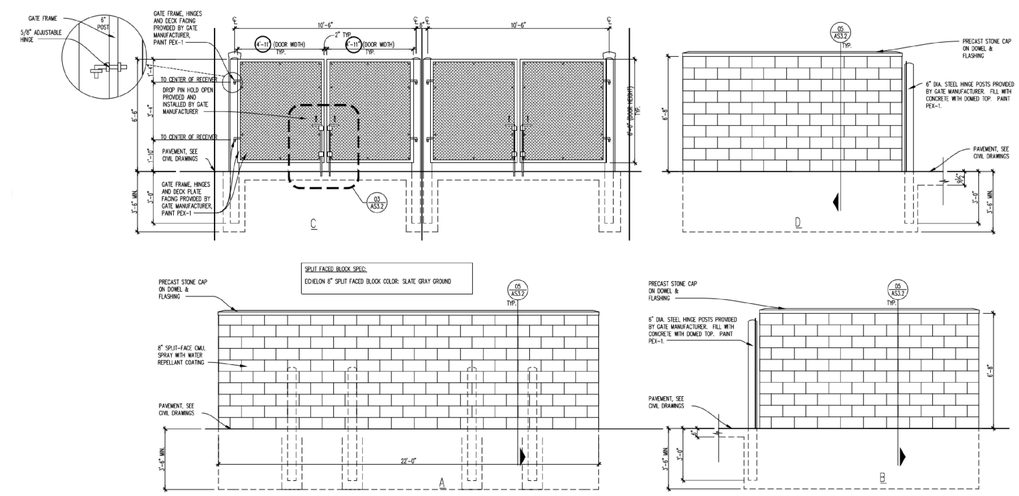
SECTION

DUMPSTER ENCLOSURE FENCE
N.T.S.



CONCRETE SLAB SPEC:
1. CONCRETE SLAB TO BE A MINIMUM OF 6" THICK – VERIFY SLAB REQUIREMENTS WITH GEOTECHNICAL REPORT.
2. CONCRETE SEALER: "SCOFIELD" CEMENTONE CLEAR SEALER. APPLY PER MANUFACTURER'S RECOMMENDATIONS.
3. CONCRETE COLOR HARDENER: "SCOFIELD" LITHOCHROME, A33 "CLASSIC GREY" APPLY PER MANUFACTURERS RECOMMENDATIONS.

TRASH ENCLOSURE PLAN (WENDY'S)
N.T.S.



TRASH ENCLOSURE ELEVATIONS (WENDY'S)
N.T.S.

SUBMITTAL / REVISIONS					
No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
DESIGNED BY:	JWE
DRAWN BY:	APY
CHECKED BY:	JWE

DATE DATE

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1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

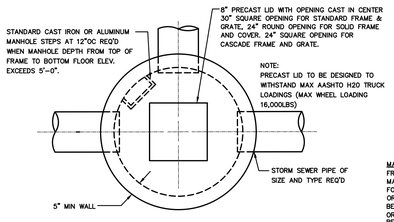
SITE DETAILS

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: AS NOTED
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

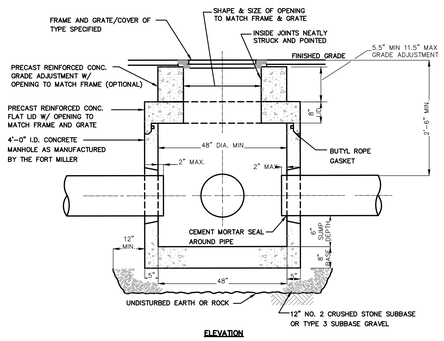
D-2

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\Details.dwg (Layout: D-2)
Date: Fri, Jun 19, 2020 - 2:43 PM (Name: aborza)



PLAN

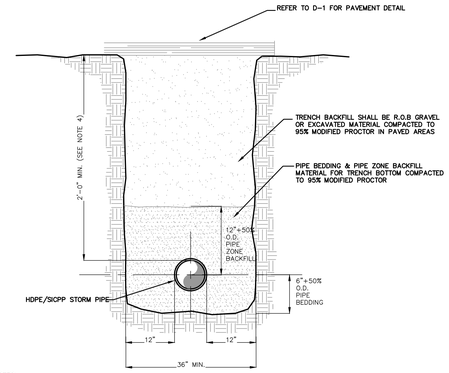
MANHOLES
FRAME AND COVER NO.1009 AS MANUFACTURED BY CAMPBELL FOUNDRY COMPANY, HARRISON, NJ, OR APPROVED EQUAL. COVER MUST BE CLEARLY LABELED "STORM SEWER" OR HEAVY DUTY FRAME AND GRATE TO BE CAMPBELL NO. 2816B OR APPROVED EQUAL (BICYCLE SAFE)



ELEVATION

CONCRETE MANHOLE

N.T.S.



NOTES:

1. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS, AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	70%
NO. 200	0-10%

2. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS, AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	70%
NO. 200	0-10%

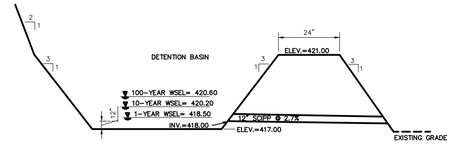
IN UNPAVED AREAS, TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER.

3. TRENCHING SHALL BE CONDUCTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

4. 2'-0" MIN COVER SHALL BE APPLIED TO STORM SEWER PIPES ONLY.

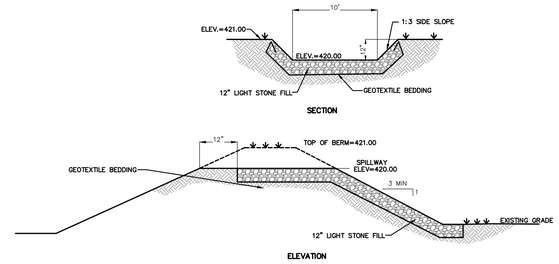
STORM PIPE TRENCH

N.T.S.



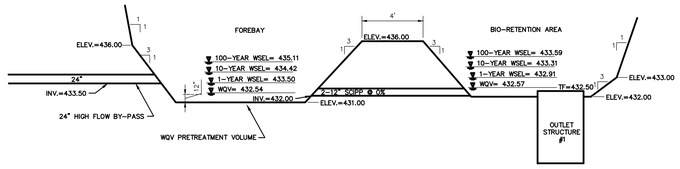
DETENTION BASIN #3

N.T.S.



EMERGENCY SPILLWAY BASIN #3

N.T.S.



FOREBAY AND DETENTION BASIN #1

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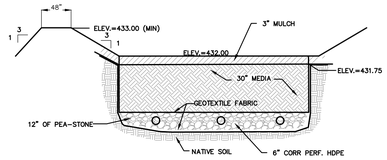
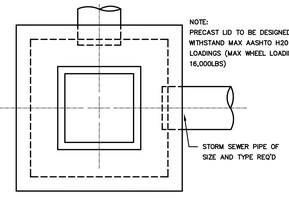
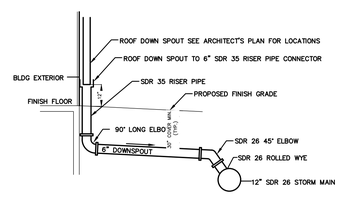


CROSS SECTION



PLAN



DOWNSPOUT TO STORM CONNECTION

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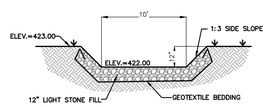

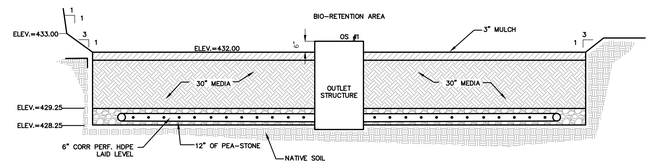

BIORETENTION #1 TYPICAL SECTIONS

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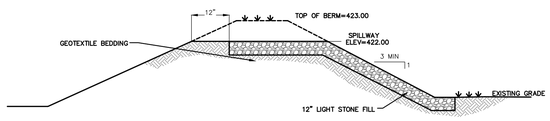
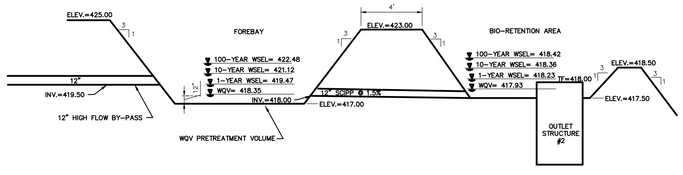


EMERGENCY SPILLWAY BASIN #2

N.T.S.



FOREBAY AND DETENTION BASIN #2

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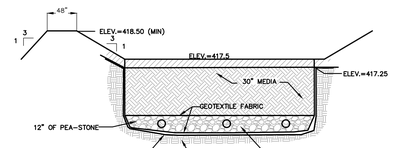
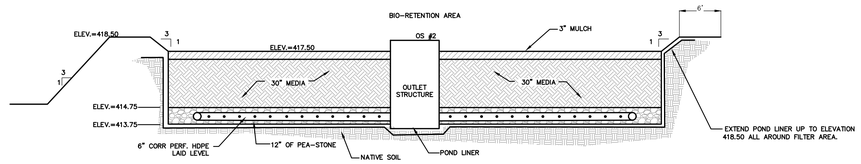


CROSS SECTION



BIORETENTION #2 TYPICAL SECTIONS

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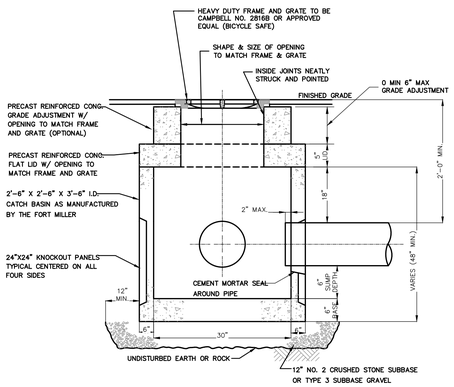
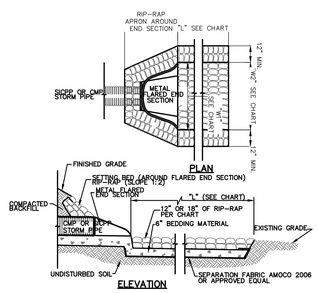


ELEVATION

CONCRETE CATCH BASIN

N.T.S.



NOTE:
1. INLET OR OUTLET PROTECTION NOT SPECIFICALLY DIMENSION OR INDICATED FOR EITHER AT HEADWALL OR AT FES LOCATION SHALL FOLLOW THE ABOVE DETAIL.

LOCATION	RIP-RAP TYPE	RIP-RAP DEPTH	NYSDOT #	DIMENSION W1	DIMENSION W2	DIMENSION L
FES #1	LIGHT	12"	620.03	3'-0"	3'-0"	3'-0"
FES #2	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #3	LIGHT	24"	620.03	5'-0"	10'-0"	10'-0"
FES #4	LIGHT	24"	620.03	5'-0"	10'-0"	10'-0"
FES #5	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #6	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #7	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #8	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #9	LIGHT	24"	620.03	5'-0"	10'-0"	10'-0"
FES #10	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #11	LIGHT	12"	620.03	PART OF EMERGENCY SPILLWAY		
FES #12	LIGHT	18"	620.03	4'-0"	10'-0"	10'-0"
FES #13	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #14	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #15	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"
FES #16	LIGHT	12"	620.03	3'-0"	9'-0"	8'-0"

INLET/OUTLET CULVERT STONE LINED APRON PROTECTION

N.T.S.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
DESIGNED BY:	JWE
DRAWN BY:	APY
CHECKED BY:	JWE

DATE

DATE

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CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
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D-3

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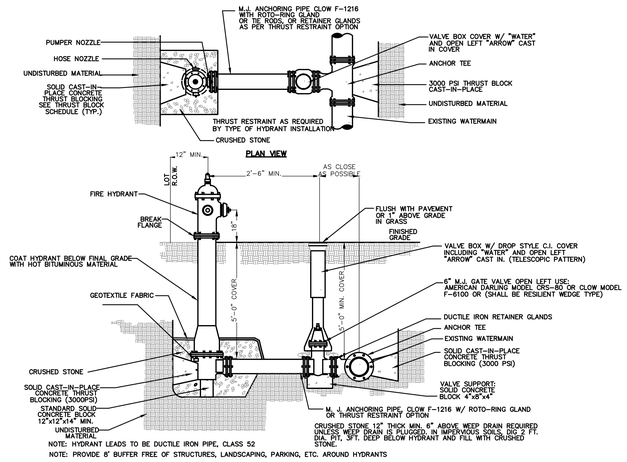
Date: Fri, Jun 19, 2020 - 2:43 PM (Name: aborza)



HYDRANT INSTALLATION

N.T.S.

DISINFECTION PROCEDURE

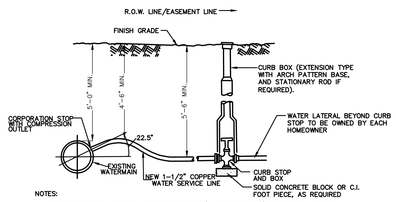
DISINFECTION: MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARDS FOR DISINFECTION WATER MAINS, C-651-92, WITH THE EXCEPTION OF SECTION 5.1, TABLET METHOD. WATER CONTAINING NOT MORE THAN 50 PARTS PER MILLION OF FREE AVAILABLE CHLORINE SHALL BE ALLOWED TO STAND IN ALL LINES AND SYSTEMS FOR AT LEAST 24 HOURS. AFTER WHICH TIME THERE SHALL BE AT LEAST 25 PARTS PER MILLION RESIDUAL CHLORINE REMAINING IN THE WATER. ALL NEW VALVES AND HYDRANTS SHALL BE OPERATED WHILE THE LINES ARE FILLED WITH HEAVILY CHLORINATED WATER. FOLLOWING CHLORINATION TO THE SATISFACTION OF THE CITY. ALL DISINFECTING WATER SHALL BE FLUSHED FROM THE LINES UNTIL THE CHLORINE RESIDUAL DOES NOT EXCEED 1.0 PART PER MILLION. THE CHLORINE SOLUTION SHALL BE DISPOSED OF IN A MANNER THAT WILL IN NO DETRIMENTAL WAY AFFECT FISH, PLANT, OR ANIMAL LIFE. IF DISCHARGED TO LOCAL STREAMS, THE WATER SHALL NOT HAVE A CHLORINE RESIDUAL EXCEEDING 0.05 MG/L AT POINT OF DISCHARGE. WHEN ALL LINES HAVE BEEN FLUSHED CLEAN TO SATISFACTION, THE OWNER OR HIS REPRESENTATIVE SHALL COLLECT SAMPLES OF THE WATER AT LOCATIONS DIRECTED BY THE CITY AND UNDER HIS SUPERVISION. THE SAMPLES SHALL BE SENT TO AN APPROVED TESTING LABORATORY FOR BACTERIA ANALYSIS AND TWO (2) COPIES OF THE TEST RESULTS SHALL BE SENT TO THE CITY. THE OWNER SHALL BEAR ALL COSTS FOR SUCH SAMPLING AND TESTING.

PRESSURE TESTING AND FLUSHING

A. FOR THE PRESSURE TEST, THE SYSTEM SHALL BE PRESSURIZED AND MAINTAINED AT A MINIMUM OF 15 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO THE ELEVATION OF THE GAUGE. PROVISIONS SHALL BE MADE TO RELIEVE AIR TRAPPED AT HIGH POINTS IN THE SYSTEM THROUGH ADJACENT HYDRANTS OR THROUGH TAPS AND CORPORATION STOPS INSTALLED FOR THIS PURPOSE BY THE CONTRACTOR. AFTER THIS PRESSURE HAS BEEN MAINTAINED SUCCESSFULLY, WITH FURTHER PUMPING AS REQUIRED, FOR A PERIOD OF AT LEAST TWO HOURS, THE SECTION UNDER TEST SHALL BE CONSIDERED TO HAVE PASSED THE PRESSURE TEST.

B. THE LEAKAGE TEST SHALL BE PERFORMED CONCURRENTLY USING A MINIMUM TEST PRESSURE OF 150 POUNDS PER SQUARE INCH, OR 1.5 TIMES THE WORKING PRESSURE, WHICHEVER IS GREATER, BASED ON THE ELEVATION OF THE LOWEST POINT IN THE SECTION UNDER TEST AND CORRECTED TO THE ELEVATION OF THE GAUGE. THE LEAKAGE TEST DURATION SHALL BE A MINIMUM OF TWO HOURS AFTER THE LEAKAGE RATE HAS STABILIZED.

C. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE COMPLIANCE WITH CITY STANDARDS. AT THE CONCLUSION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL NEW PIPES BY FLUSHING WITH WATER OR OTHER MEANS TO REMOVE ALL DIRT, STONES, PIECES OF WOOD, ETC., WHICH MAY HAVE ENTERED DURING THE CONSTRUCTION PERIOD. IF, AFTER CLEANING, ANY OBSTRUCTION STILL REMAIN, THEY SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER/ARCHITECT. PIPES SHALL BE FLUSHED AT A RATE OF 2.5 FEET PER SECOND FLUSHING VELOCITY.



NOTES:
1. TYPE K VIRGIN COPPER-ASTM SPEC. B88 (LATEST REVISION) AND AWWA C-800.

WATER SERVICE INSTALLATION DETAIL

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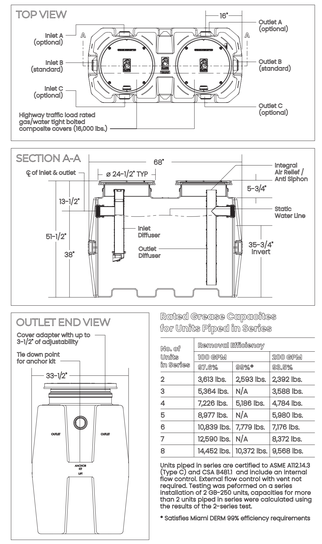


Rated Grease Capacities for Units Piped in Series

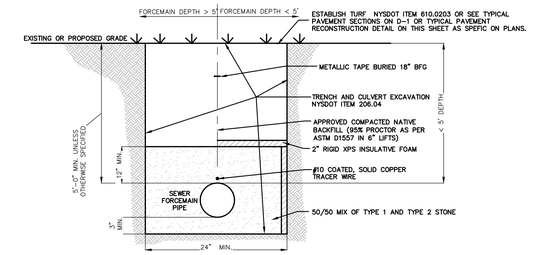
No. of Units in Series	Removal Efficiency		
	100 GPM	200 GPM	250 GPM
	97.8%	92%*	90.8%
2	3,613 lbs.	2,593 lbs.	2,392 lbs.
3	5,364 lbs.	N/A	3,588 lbs.
4	7,226 lbs.	5,186 lbs.	4,784 lbs.
5	8,977 lbs.	N/A	5,980 lbs.
6	10,839 lbs.	7,779 lbs.	7,176 lbs.
7	12,590 lbs.	N/A	8,372 lbs.
8	14,452 lbs.	10,372 lbs.	9,568 lbs.

Units piped in series are certified to ASME A112.14.3 (Type C) and CSA B481 and include an internal flow diverter. Performance performance data is based on a series installation of 2 39-250 units, capacities for more than 2 units piped in series were calculated using the results of the 2-series test.

* Satisfies Miami DERM 99% efficiency requirements

GB-250 GREASE INTERCEPTOR (WENDY'S)

N.T.S.



TYPICAL SEWER FORCEMAIN TRENCH

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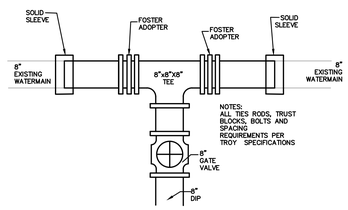

WATERMAIN CONNECTION DETAIL TO EXISTING WATERMAIN

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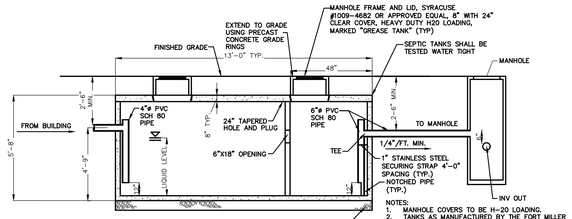
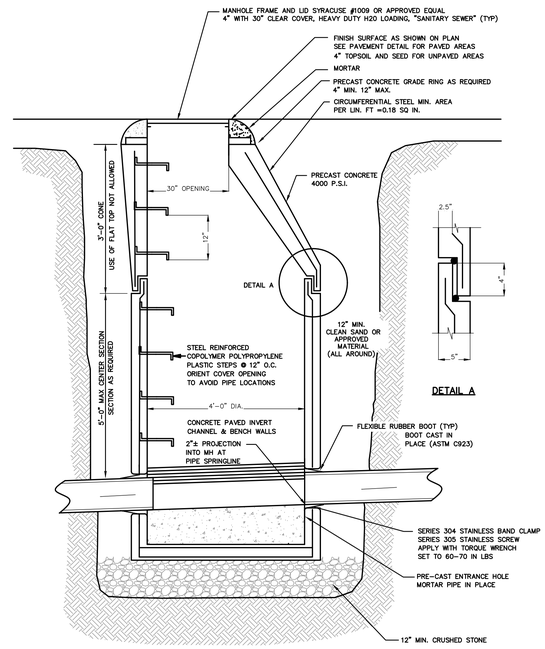


NOTES:
1. MANHOLE COVERS TO BE H-20 LOADING.
2. TANKS AS MANUFACTURED BY THE FORT MILLER OR APPROVED EQUAL.
3. MINIMUM OF 0.25' INVERT ELEVATION DIFFERENCE THROUGH EACH TANK.

2000 GALLON TYPE II GREASE INTERCEPTOR

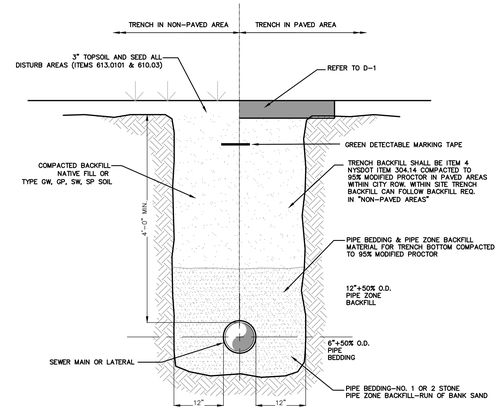
N.T.S.



SEWER MANHOLE DETAIL

N.T.S.

DETAIL A



SEWER TRENCH

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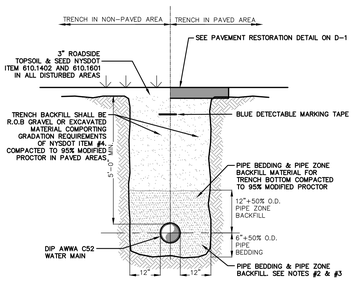


WATER TRENCH NOTES:

1. CONTROLLED, RELATIVELY CLEAN, GRANULAR FILL SHALL BE SPREAD IN LIFTS NOT EXCEEDING 12 INCHES IN LOOSE THICKNESS. EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM ASTM SPECIFICATION D-1557-74 DENSITY, MODIFIED PROCTOR.

2. PIPE BEDDING SHALL BE FROM AN APPROVED SOURCE, SUBJECT TO THE APPROVAL OF THE DESIGN ENGINEER. THE MATERIAL SPECIFIED SHALL GENERALLY CONSIST OF A MIXTURE OF GRADED CRUSHED STONE, SAND AND GRAVEL TO A MAXIMUM SIZE OF NO.1 SIZE DESIGNATION. IN GENERAL, THE MATERIAL SHALL HAVE A MAXIMUM SIZE OF 3/4 INCH AND BE GRADED FOR CONDITIONS ENCOUNTERED.

   CRUSHED STONE, CRUSHED GRAVEL, OR SCREENED GRAVEL: CONFORM TO APPLICABLE PORTIONS OF DOT SECTION 703-02.

3. PIPE ZONE BACKFILL MATERIAL SHALL BE SOUND, ANGULAR, CRUSHED STONE, CRUSHED GRAVEL, OR CRUSHED SLAG, SAND, STONE, OR SLAG SCREENINGS, CLEAN AND GRANULAR, AND WELL GRADED.

   PIPE ZONE BACKFILL MATERIAL SHALL MEET THE FOLLOWING GRADATION:

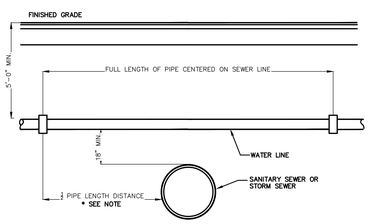
US STD SIEVE SIZE	% PASSING BY WEIGHT
1-1/2"	100
1/2"	80-100
1/4"	70-90
NO.40	15-75
NO.200	0-7

   FINE PASSING NO.200 SHALL BE NON-PLASTIC.

4. SUITABLE EXCAVATED MATERIAL: AVAILABLE SITE MATERIALS CONSISTING OF MINERAL SOIL (INORGANIC), BLASTED OR BROKEN ROCK AND SIMILAR MATERIALS OF NATURAL OR MANMADE ORIGIN, INCLUDING MIXTURES THEREOF. MAXIMUM PARTICLE SIZE SHALL NOT EXCEED SPECIFICATIONS NOTED IN DETAILS. NOTE: MATERIAL CONTAINING ONDERS, INDUSTRIAL WASTE, SLUDGE, BUILDING RUBBLE, LAND FILL, ORGANIC MATTER SUCH AS TOPSOIL, SOD, MUCK, PEAT, AND ORGANIC SILT, SHALL BE CONSIDERED UNSUITABLE FOR FILL AND BACKFILL.

WATER PIPE TRENCH

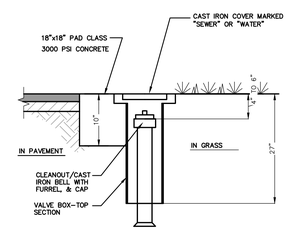
N.T.S.



WHEN INSTALLED PARALLEL, ALL WATER AND SEWER LINES SHALL HAVE A MINIMUM SEPARATION OF 10', EDGE TO EDGE. IF MINIMUM CANNOT BE MAINTAINED, WATER MAIN SHALL BE IN SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF TO ONE SIDE OF SEWER, WITH BOTTOM OF WATER MAIN 18" MINIMUM ABOVE TOP OF SEWER PIPE. WHEN CROSSING, MAINS SHALL BE INSTALLED TO INSURE 18" MINIMUM VERTICAL SEPARATION BETWEEN PIPES, OUTSIDE TO OUTSIDE. WHERE WATER MAIN IS UNDERNEATH SEWER, ADEQUATE STRUCTURAL SUPPORT SHALL BE PROVIDED FOR THE SEWER TO PREVENT DAMAGE TO WATER MAIN. WHEN IT IS IMPOSSIBLE TO PROVIDE THE ABOVE MINIMUMS, THE SEWER SHALL BE DESIGNED AND CONSTRUCTED EQUAL TO WATER PIPE, AND SHALL BE PRESSURE TESTED TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING.

INSTALLATION OF UTILITIES AT CROSSING

N.T.S.



CLEAN OUT RISER COVER

N.T.S.

GENERAL NOTES:

EXCAVATION, TRENCHING, SHEETING AND SHORING REQUIREMENTS:

A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF ALL SHEETING AND SHORING USED AND FOR ALL DAMAGE RESULTING FROM ITS FAILURE OR FROM PLACING, MAINTAINING AND REMOVING IT.

B. REQUIREMENTS OF REGULATORY AGENCIES.

1. SUBPART P, "EXCAVATIONS" OF UNITED STATES DEPARTMENT OF LABOR O.S.H.A. REGULATIONS FOR CONSTRUCTION.
2. THE MORE STRINGENT REQUIREMENT IN EACH OF THE ABOVE CODES SHALL APPLY. THESE REQUIREMENTS ARE MINIMUM REQUIREMENTS AND SHALL BE INCREASED IF NECESSARY TO PROVIDE SAFE WORKING
3. ALL MUNICIPAL COUNTY, STATE, OR FEDERAL ORDINANCES, REGULATIONS, OR LAWS AND ALL NECESSARY PERMITS AND APPROVALS OBTAINED BY THE CONTRACTOR SHALL BE OBSERVED. CONDITIONS.

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
DESIGNED BY:	JWE
DRAWN BY:	APY
CHECKED BY:	JWE

DATE DATE

THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, (I.E.) ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS "A" MISDEMEANOR.

DRAFT

Engineering and Land Surveying, P.C.
1533 Crescent Road - Clifton Park, NY 12065

DAVE LEON

SITE DETAILS

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: AS NOTED
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

D-4

File Name: C:\Users\aborza\appdata\local\temp\AcPublish_27528\Details.dwg (Layout: D-4)
Date: Fri, Jun 19, 2020 - 2:43 PM (Name: aborza)

GENERAL REQUIREMENTS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROL TO PROTECT SURROUNDING WATER BODIES.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION CONTROL AND MAINTENANCE OF SOIL EROSION AND SEDIMENT CONTROL FACILITIES TO ENSURE PROPER FUNCTIONING OF SAID FACILITIES (DURING CONSTRUCTION).

AFTER THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY FOR ENSURING THAT ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN REMOVED OR REPLACED BY PERMANENT CONTROLS.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE TEMPORARY SEEDING. MULCH SHALL BE USED IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER. DISTURBED AREAS SHALL BE LIMED AND FERTILIZED PRIOR TO TEMPORARY SEEDING.

PERMANENT VEGETATION TO BE SEEDED OR SODDED ON ALL EXPOSED AREAS WITHIN FIVE (5) DAYS AFTER FINAL GRADING. MULCH AS NECESSARY FOR SEED PROTECTION AND ESTABLISHMENT. LIME AND FERTILIZE SEED BED PRIOR TO PERMANENT SEEDING.

EROSION & SEDIMENT POLLUTION CONTROL GUIDELINES (SWPPP)

EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES AND PRACTICES, UTILIZED IN THE CONSTRUCTION OF THE PROJECT, SHALL BE CONSISTENT WITH THE NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL (NOVEMBER 2016).

NATURAL VEGETATION SHALL BE RETAINED, PROTECTED, AND SUPPLEMENTED, AS FEASIBLE PRIOR TO AND DURING CONSTRUCTION.

CUT AND FILL SLOPES SHALL BE BROUGHT TO FINAL PROPOSED GRADES AS SOON AS POSSIBLE IN THE CONSTRUCTION SEQUENCES, AND SEEDED AND MULCHED IMMEDIATELY.

EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES (STRAW BALES, FILTER FABRIC FENCING, STABILIZED CONSTRUCTION ENTRANCES, SILTATION BASINS, AND OTHER ACCEPTABLE FACILITIES) SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL COMPLETE SITE STABILIZATION.

HEAVY CONSTRUCTION EQUIPMENT SHALL BE KEPT AS CLOSE TO THE AREA AS PRACTICAL TO MINIMIZE DISTURBANCE OF SOIL ALREADY STABILIZED OR UNDISTURBED

TOPSOIL AND OTHER SOIL REMOVED DURING CONSTRUCTION SHALL BE STOCKPILED IN A SUITABLE LOCATION CLEAR FROM ANY STORMWATER DRAINAGE COURSES. STOCKPILES WHICH ARE INACTIVE FOR MORE THAN FOURTEEN (14) DAYS SHALL BE SEEDED.

VEGETATIVE STABILIZATION SHALL BE PERIODICALLY INSPECTED FOR SUFFICIENT GROWTH AND PROGRESS. AREAS NOT RESPONDING SHALL BE PROMPTLY RESEEDED AND REMULCHED AS SOON AS POSSIBLE. AREAS SHOWING SIGNS OF EROSION PRIOR TO STABILIZATION SHALL BE GRADED, RESEED, AND REMULCHED AS SOON AS POSSIBLE. SOD OR EROSION CONTROL FABRIC SHALL BE UTILIZED WHERE ADEQUATE STABILIZATION IS NOT OCCURRING.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED BEFORE BEGINNING EARTH MOVING ACTIVITIES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.

A STABILIZED CONSTRUCTION ENTRANCE PAD OF 1-1/2" TO 2" CLEAN STONE WILL BE PLACED AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER SITE DISTURBANCE. (DIMENSIONS: LENGTH-NOT LESS THAN 50 FT., EXCEPT ON SINGLE RESIDENCE LOT WHERE 30 FT. MINIMUM WOULD APPLY; WIDTH-24 FT. MIN., BUT NOT LESS THAN FULL WIDTH OF ENTRANCE OR EXIT DRIVES: DEPTH-NOT LESS THAN 8 IN.) FILTER CLOTH IS REQUIRED PRIOR TO STONE PLACEMENT.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED FOR MORE THAN 14 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR EQUIVALENT MATERIAL, AT A RATE OF 2.5-3.0 TONS PER ACRE, ACCORDING TO STATE STANDARDS.

PERMANENT VEGETATION TO BE SEEDED ON ALL EXPOSED AREAS WITHIN FOURTEEN (14) DAYS AFTER FINAL GRADING. MULCH TO BE USED AS NECESSARY FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.

THE APPLICATION OF TOPSOIL, LIMING, FERTILIZING, SEEDING, AND MULCHING FOR DISTURBED AREAS SHALL BE CONSISTENT WITH THE STANDARD GENERAL PRACTICES FOR CONSTRUCTION.

IMMEDIATELY FOLLOWING INITIAL DISTURBANCES OF ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2.5 - 3.0 TONS PER ACRE

ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E., SLOPES GREATER THAN 3:1).

AT THE TIME WHEN SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS TO BE ESTABLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER.

IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES UNTIL ALL AREAS HAVE BEEN PERMANENTLY STABILIZED.

EROSION AND SEDIMENT CONTROL MEASURE TO BE REMOVED ONLY AFTER PERMANENT STABILIZATION IS COMPLETED AND THE VILLAGE OF VICTORY AND SWPPP MONITORING PROFESSIONAL HAS APPROVED THE WORK.

MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES

PROPER MAINTENANCE AND REPAIR OF EROSION AND SEDIMENT CONTROL FACILITIES ARE NECESSARY TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT POLLUTION CONTROL FACILITIES.

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE ENTRANCE OF EACH CONSTRUCTION INGRESS ONTO PUBLIC THOROUGHFARES AND STABILIZED ROADWAYS.

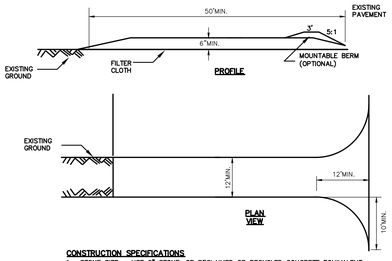
DISTURBED GROUND SURFACES SHALL BE SPRINKLED WITH WATER, AS NEEDED, TO LIMIT THE FORMATION AND MIGRATION OF AIRBORNE DUST.

OPERATIONAL MEASURES SHALL BE EMPLOYED DURING CONSTRUCTION TO PREVENT THE SPILLS OF FUELS AND LUBRICANTS. IF A SPILL OCCURS, IT SHALL BE CONTROLLED IMMEDIATELY TO PREVENT ITS ENTRY INTO OFF-SITE AREAS INCLUDING ADJACENT STORM SEWER.

ANY TEMPORARY EROSION CONTROL FACILITY SHALL REMAIN FUNCTIONAL UNTIL VEGETATIVE COVER IS SUFFICIENTLY ESTABLISHED WITHIN THE RESPECTIVE TRIBUTARY DRAINAGE AREA.

ANY DEBRIS ACCUMULATED IN EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE REMOVED AND PROPERLY DISPOSED. THESE FACILITIES SHALL BE CHECKED DAILY AND AFTER RAINFALL EVENTS, AND REALIGNED AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN IT REACHES THE FOLLOWING DEPTHS:
STRAW BALE BARRIERS - 6 INCHES
SILT FENCING - 6 INCHES
SILTATION BASIN - 9 INCHES

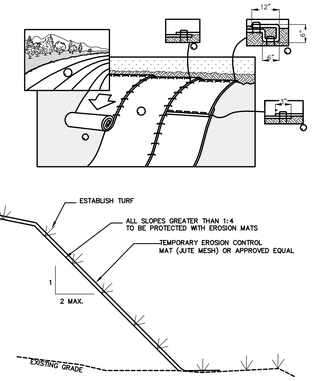
NOTE: DISTURBED AREAS SHALL BE CONSIDERED AS PERMANENTLY STABILIZED WHEN A MINIMUM COVER OF80% HAS BEEN ESTABLISHED.



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE – USE 2" STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH – NOT LESS THAN 50 FEET (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30 FOOT MINIMUM LENGTH WOULD APPLY).
3. THICKNESS – NOT LESS THAN SIX (6) INCHES.
4. WIDTH – TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. TWENTY-FOUR (24) FOOT IF SINGLE ENTRANCE TO SITE.
5. FILTER CLOTH – WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACTED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON A AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

CONSTRUCTION ENTRANCES
N.T.S.



TEMPORARY EROSION CONTROL MAT
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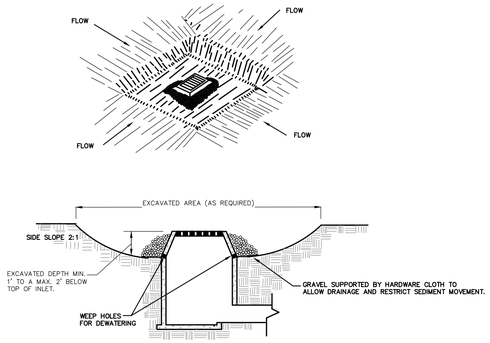


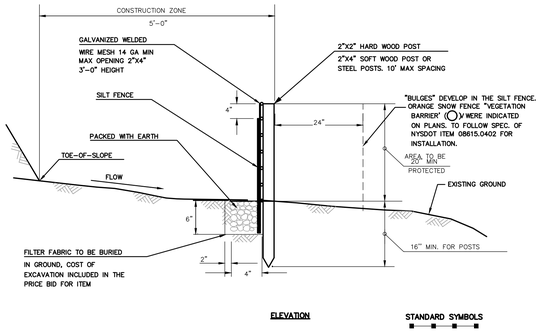
CONSTRUCTION SPECIFICATIONS

1. CLEAR THE AREA OF ALL DEBRIS THAT WILL HINDER EXCAVATION.
2. GRADE APPROACH TO THE INLET UNIFORMLY AROUND THE BASIN.
3. WEEP HOLES SHALL BE PROTECTED BY GRAVEL.
4. UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA, SEAL WEEP HOLES, FILL BASIN WITH STABLE SOIL TO FINAL GRADE, COMPACT IT PROPERLY AND STABILIZE WITH PERMANENT SEEDING.

MAXIMUM DRAINAGE AREA 1 ACRE

STANDARD SYMBOL

EXCAVATED DROP INLET PROTECTION
N.T.S.



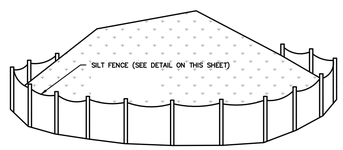
ELEVATION

STANDARD SYMBOLS

SILT FENCE FOR TEMPORARY EROSION CONTROL
N.T.S.

CONSTRUCTION SPECIFICATIONS

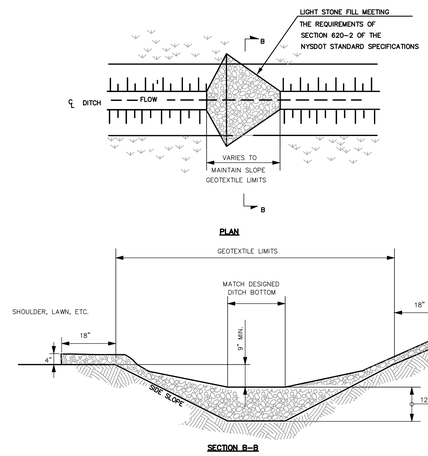
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION. FENCE SHALL BE WOVEN WIRE, 12 1/2 GAUGE, 6" MAXIMUM MESH OPENING.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
4. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN



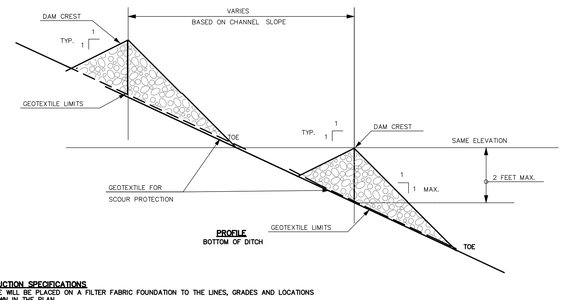
NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2 HORIZONTAL ON 1 VERTICAL.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAY BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

STOCKPILE STABILIZATION
N.T.S.



SECTION B-B



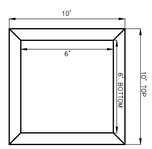
PROFILE
BOTTOM OF DITCH

CONSTRUCTION SPECIFICATIONS

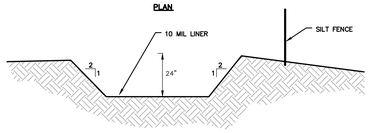
1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION TO THE LINES, GRADES AND LOCATIONS SHOWN IN THE PLAN.
2. SET SPACING OF CHECK DAMS TO ASSUME THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE. MAXIMUM DRAINAGE AREA 2 ACRES.

STANDARD SYMBOL

STONE CHECK DAM FOR TEMPORARY EROSION CONTROL IN DITCHES
N.T.S.

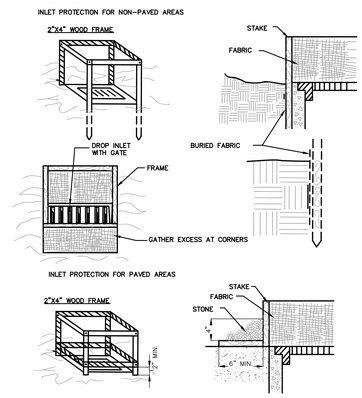


PLAN



SECTION

CONCRETE WASHOUT PIT
N.T.S.



FILTER FABRIC DROP INLET PROTECTION
N.T.S.

CONSTRUCTION SPECIFICATIONS

1. FILTER FABRIC SHALL HAVE AN EOS OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2" x 4" WOOD OR EQUIVALENT. METAL WITH A MINIMUM LENGTH OF 3 FEET.
4. SPACE STAKES EVENLY AROUND INLET 3 FEET APART AND DRIVE A MINIMUM 18 INCHES DEEP. SPANS GREATER THAN 3 FEET MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1 FOOT MINIMUM BELOW GROUND AND BACKFILLED. IF SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.

MAXIMUM DRAINAGE AREA 1 ACRE

STANDARD SYMBOL

SUBMITTAL / REVISIONS

No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
DESIGNED BY:	JWE
DRAWN BY:	APY
CHECKED BY:	JWE

DATE DATE

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DAVE LEON

SITE DETAILS

658 - 664 HOOSICK ROAD
TOWN OF BRUNSWICK NEW YORK

SCALE: AS NOTED
CONTRACT No.:
MJ PROJ. No.: MJ 972.06-1
DATE: JUNE 2020

D-5

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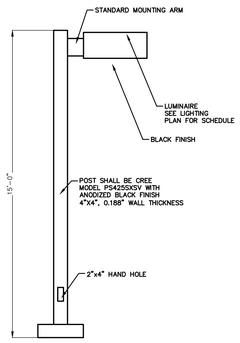
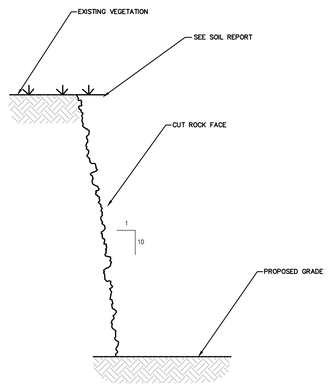


LIGHT FIXTURE

N.T.S.



CUT ROCK SECTION

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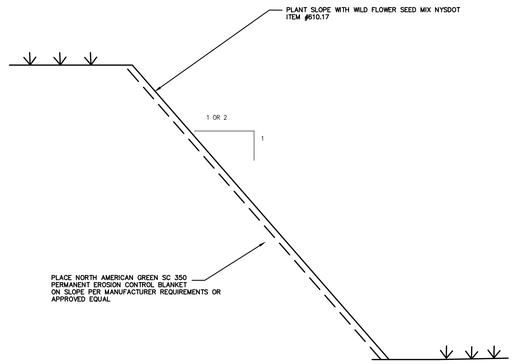

CUT OR FILL SLOPE EROSION CONTROL BLANKET

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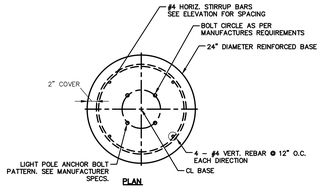

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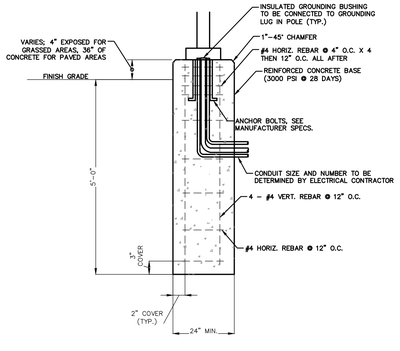


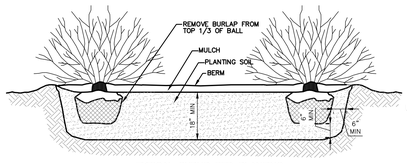
ELEVATION

NOTE:

FOUNDATIONS MAY BE MODIFIED BASED ON SOIL CONDITIONS WITH APPROVAL THROUGH THE ENGINEER. AN INCREASE IN THE OVERALL FOUNDATION DIAMETER MAY BE REQUIRED DEPENDING ON MANUFACTURERS ANCHOR BOLT REQUIREMENTS.

LIGHT FIXTURE FOUNDATION

N.T.S.

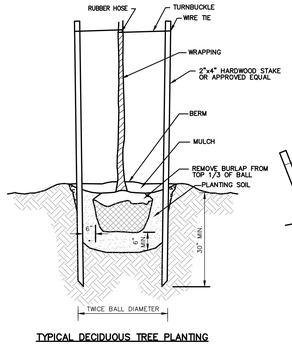


TYPICAL SHRUB BED PLANTING

N.T.S.

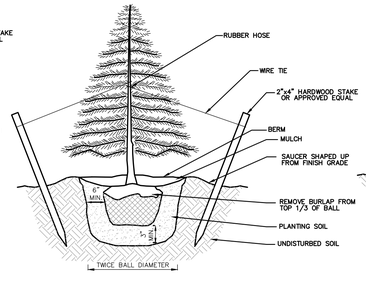
LANDSCAPING NOTES

LANDSCAPE AND IRRIGATION DESIGN. PLANS ARE REQUIRED ON ALL PROJECTS. IF LANDSCAPING IS NOT REQUIRED CONTRACTOR SHALL PROVIDE SITE FINE GRADED W/ HYDROSEEDING OR SOD IN ALL DISTURBED AREAS OUTSIDE OF PARKING FIELD. IN PARKING FIELD ISLANDS, IF ALLOWED USE WEED BARRIER & MULCH ONLY. ALL MULCHED AREAS TO RECEIVE WEED BARRIER. WHERE SEEDING WARRANTY DOES NOT PERMIT HYDROSEED ALONE, PROVIDE STRAW AND BIODEGRADABLE NETTING OVER HYDROSEED. ANY LANDSCAPE IN EXCESS OF 50 PLANTINGS TO RECEIVE IRRIGATION AS NEEDED REGARDLESS OF GEOGRAPHIC LOCATION. IRRIGATION HEADS TO BE A MINIMUM OF 3' FROM EDGE OF CURB LINE.



TYPICAL DECIDUOUS TREE PLANTING

N.T.S.



TYPICAL CONIFER PLANTING

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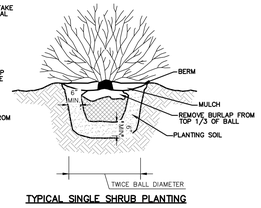

TYPICAL SINGLE SHRUB PLANTING

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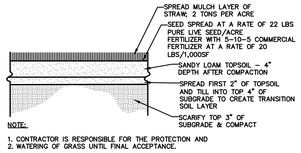

NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND
2. WATERING OF GRASS UNTIL FINAL ACCEPTANCE.

TOPSOIL, FERTILIZER, & SEED

N.T.S.

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No.	DATE	DESCRIPTION	BY	REVIEWED BY:	DATE

PROJ. MANAGER:	JWE
CHIEF DESIGNER:	JWE
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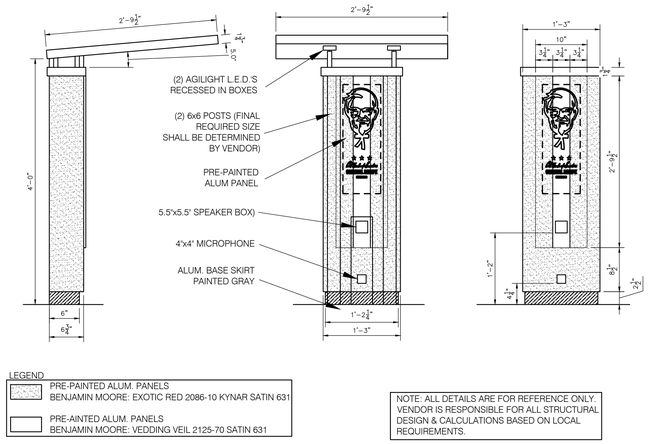

KFC ORDER POINT CANOPY DETAIL
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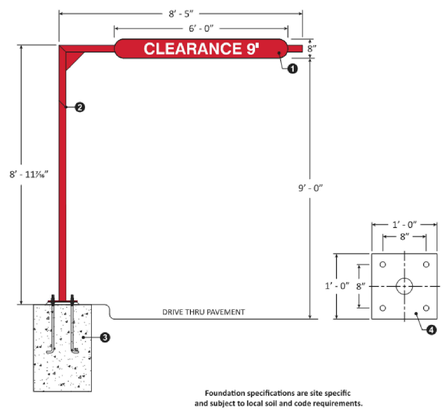

WENDY'S CLEARANCE BAR
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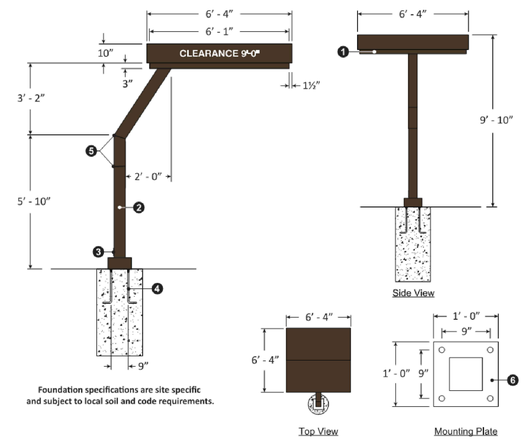

WENDY'S ORDER STATION CANOPY
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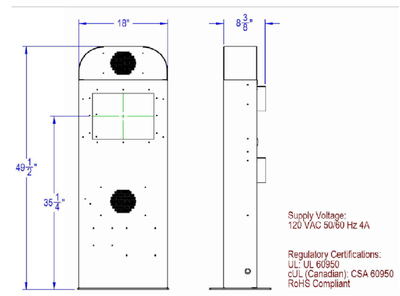

WENDY'S OCD PEDESTAL
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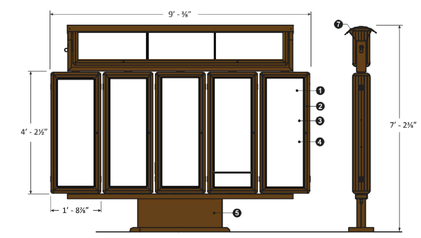

DT MENU WENDY'S SIGN
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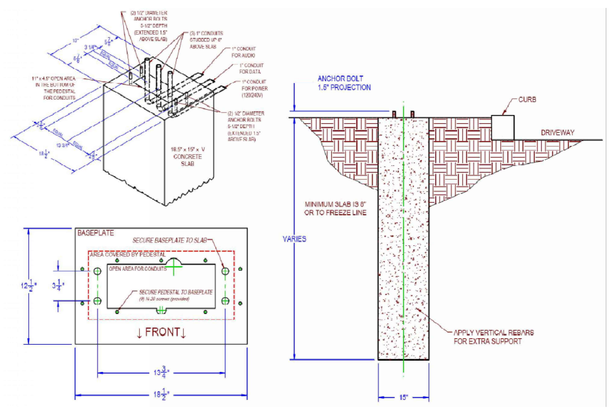
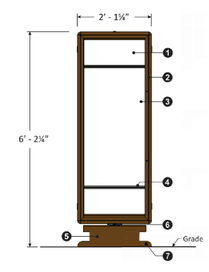


WENDY'S PEDESTAL FOUNDATION
N.T.S.



PREVIEW WENDY'S SIGN
N.T.S.

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