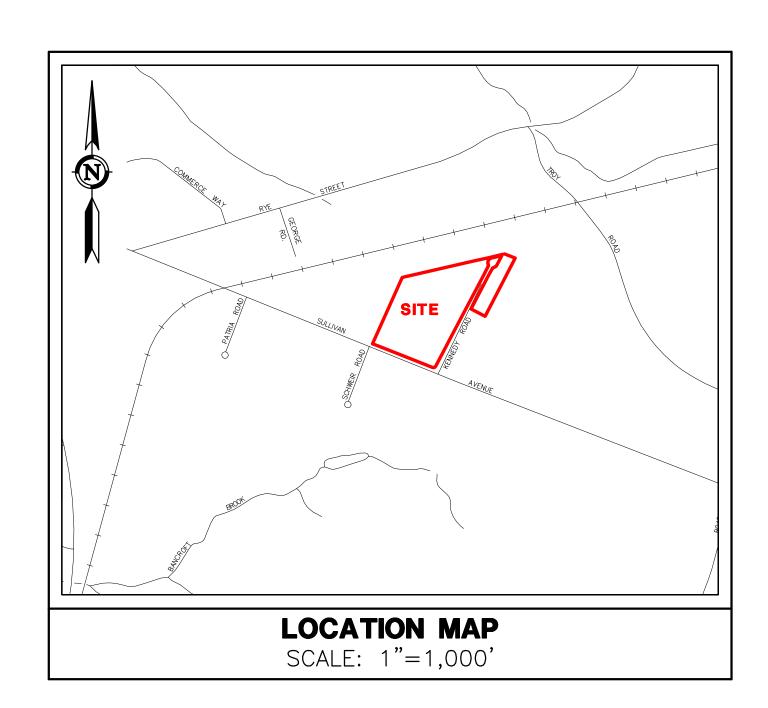
# 67 KENNEDY ROAD WAREHOUSE & DISTRIBUTION CENTER

# SITE PLAN

352 SULLIVAN AVENUE, 67 & 68 KENNEDY ROAD ~ SOUTH WINDSOR ~ CT

GIS NOs. 87300352, 49800067, & 49800068

N/F	<b>500' ABUTTERS</b>	
STREET ADDRESS	OWNER	PARCEL ID
30 KENNEDY ROAD	WOODCOCK JOHN J JR TR	49800030
40 KENNEDY ROAD	456 SULLIVAN AVE LLC	49800040
46 KENNEDY ROAD	LAWSONS PROPERTIES LLC	49800046
138 RYE STREET	SHEPARD POLA INC	78600138
140 RYE STREET	SHEPARD POLA INC	78600140
250 RYE STREET	ALTATWO REALTY COMPANY LLC	78600250
300 RYE STREET	ALTA REALTY COMPANY LLC	78600300
1 SCHWEIR ROAD	KUHNS FAMILY PROPERTIES LLC	81300001
22 SCHWEIR ROAD	WOLF & GUERRA LLC	81300022
26 SCHWEIR ROAD	MISCELLANEOUS STEEL & RAIL LLC	81300026
280 SULLIVAN AVENUE	280 SULLIVAN AVENUE LLC	87300280
283 SULLIVAN AVENUE	DELLA N LLC/LEGACY VENTURES LLC	87300283
305 SULLIVAN AVENUE	WOLF HELMAR	87300305
329 SULLIVAN AVENUE	WOLF & GUERRA LLC	87300329
330 SULLIVAN AVENUE	JKLN LLC	87300330
349 SULLIVAN AVENUE	WOLF & GUERRA LLC	87300349
405 SULLIVAN AVENUE	KUHNS FAMILY PROPERTIES LLC	87300405
425 SULLIVAN AVENUE	CONDOR PROPERTIES LLC	87300425
455 SULLIVAN AVENUE	PARKSITE INC	87300455
472 SULLIVAN AVENUE	CURRENT RESIDENT	87300472
222 TROY ROAD	CURRENT RESIDENT	90000222



500' SITE OFFSET 78600138 78600138				
78600140  CONRAIL  (SITE)  49800068				
87300280  87300330  87300352  SITE  49800046				
87300283 87300329 87300005 81300022 Pd 87300405				
81300026 81300007 81300002 87300455	873005			
KEY MAP  SCALE: 1"=200'				

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## PRELIMINARY NOT FOR CONSTRUCTION ESE PLANS ARE FOR PLANNING PURPOSES ONLY INTENDED TO SECURE

THESE PLANS ARE FOR PLANNING PURPOSES ONLY INTENDED TO SECURE REGULATORY APPROVALS. ONLY FINAL PLANS STAMPED APPROVED BY THE TOWN SHALL BE USED FOR CONSTRUCTION PURPOSES.

#### **GENERAL NOTES:**

• THESE PLANS ARE INVALID UNLESS THEY BEAR THE SEAL OR STAMP, AND ORIGINAL SIGNATURE OF THE PROFESSIONAL ENGINEER, LAND SURVEYOR, OR LANDSCAPE ARCHITECT

• REPRODUCTION TECHNIQUES USED IN THE PRODUCTION OF THIS PLAN CAN STRETCH OR SHRINK THE PAPER. SCALING OF THIS DRAWING MAY BE INACCURATE CONTACT DPLIE ADDITIONAL INFORMATION IS REQUIRED.

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# CIVIL & TRAFFIC ENGINEERS ( LAND SURVEYOR)

CIVIL & TRAFFIC ENGINEERS / LAND SURVEYORS PLANNERS / LANDSCAPE ARCHITECTS

21 Jeffrey Drive P.O. Box 1167 South Windsor, CT 06074 Phone: 860-291-8755 Fax: 860-291-8757 www.designprofessionalsinc.com

#### TRAFFIC ENGINEER:

Langan
555 Long Wharf Drive
New Haven, CT 06511-6107
203-563-5771
www.langan.com

## **PROPERTY OWNER:** FOUR WOODS LLC

C/O JOHN J WOODCOCK III

89 SADDLEBACK DRIVE

SOUTH WINDSOR, CT 06074

APPLICANT:

SCANNELL PROPERTIES #644, LLC

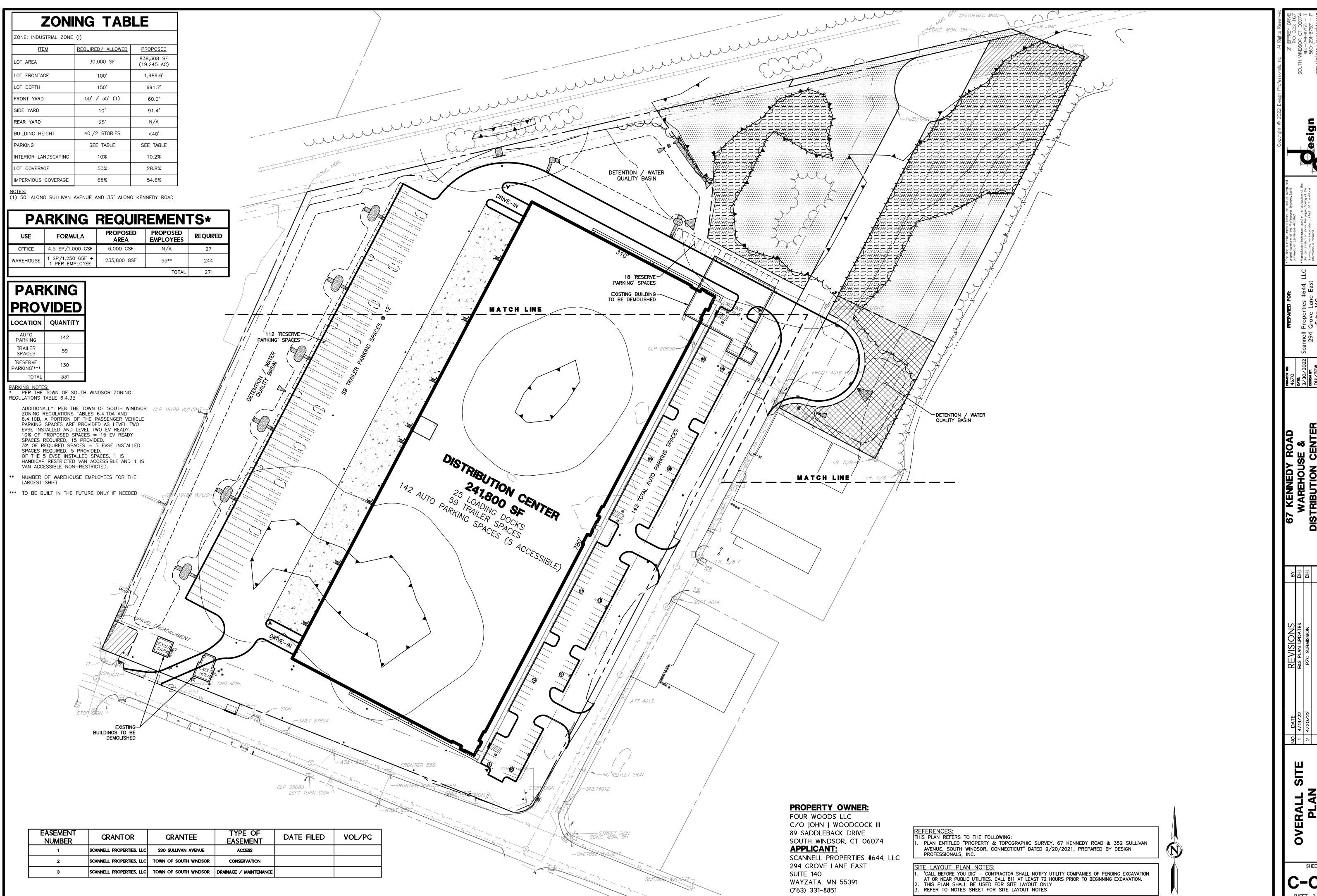
294 GROVE LANE EAST

SUITE 140

WAYZATA, MN 55391

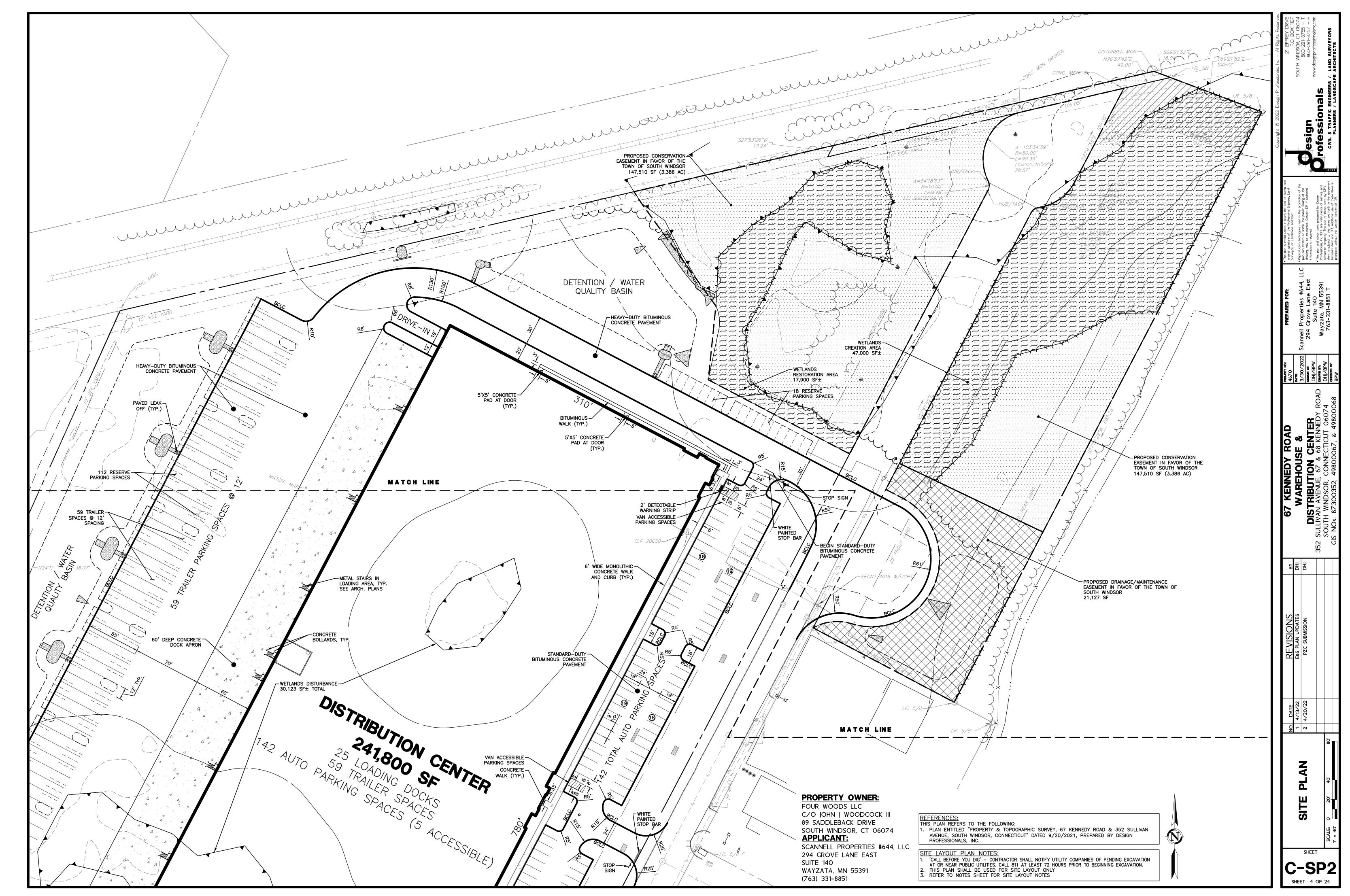
(763) 331-8851

C-T1



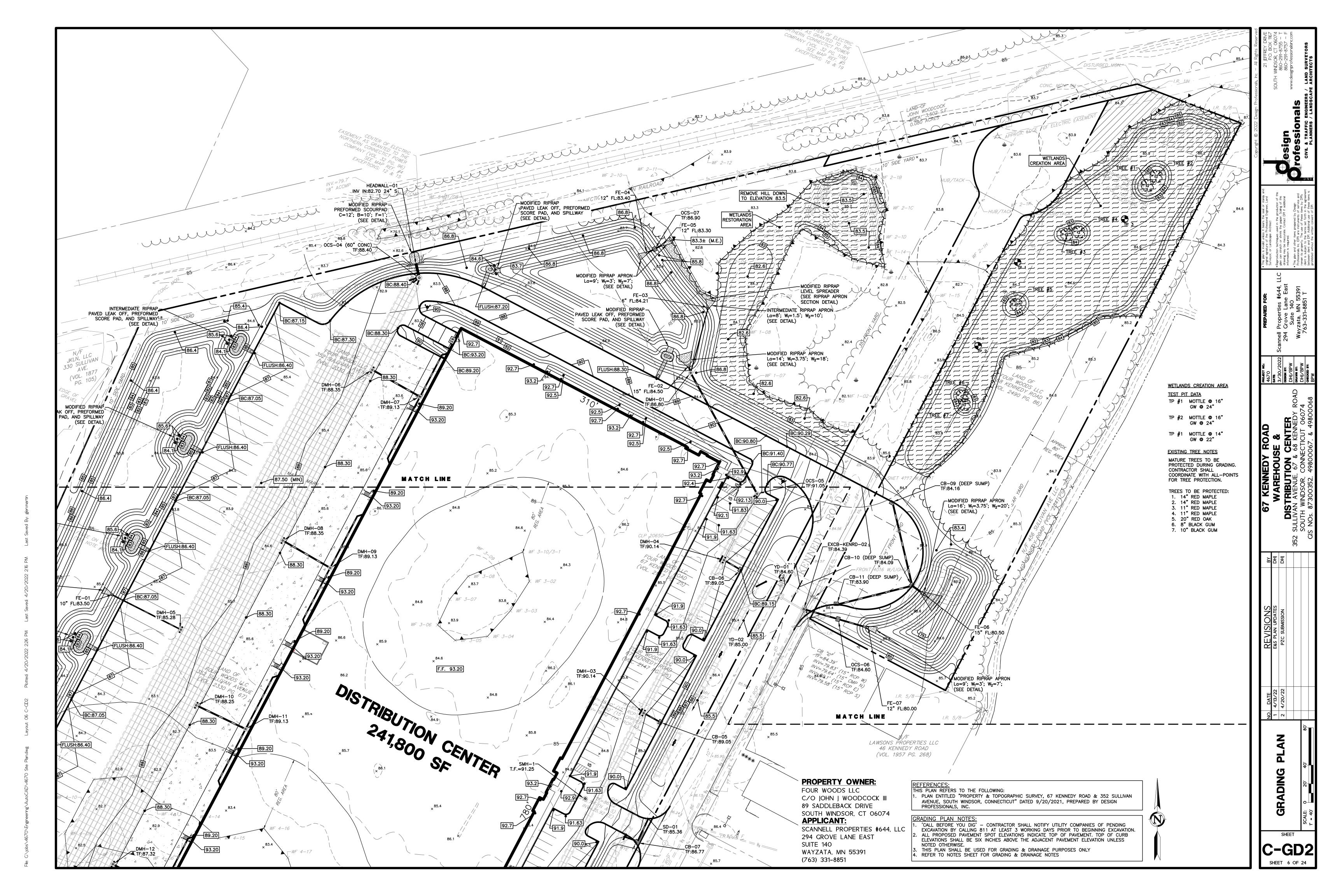


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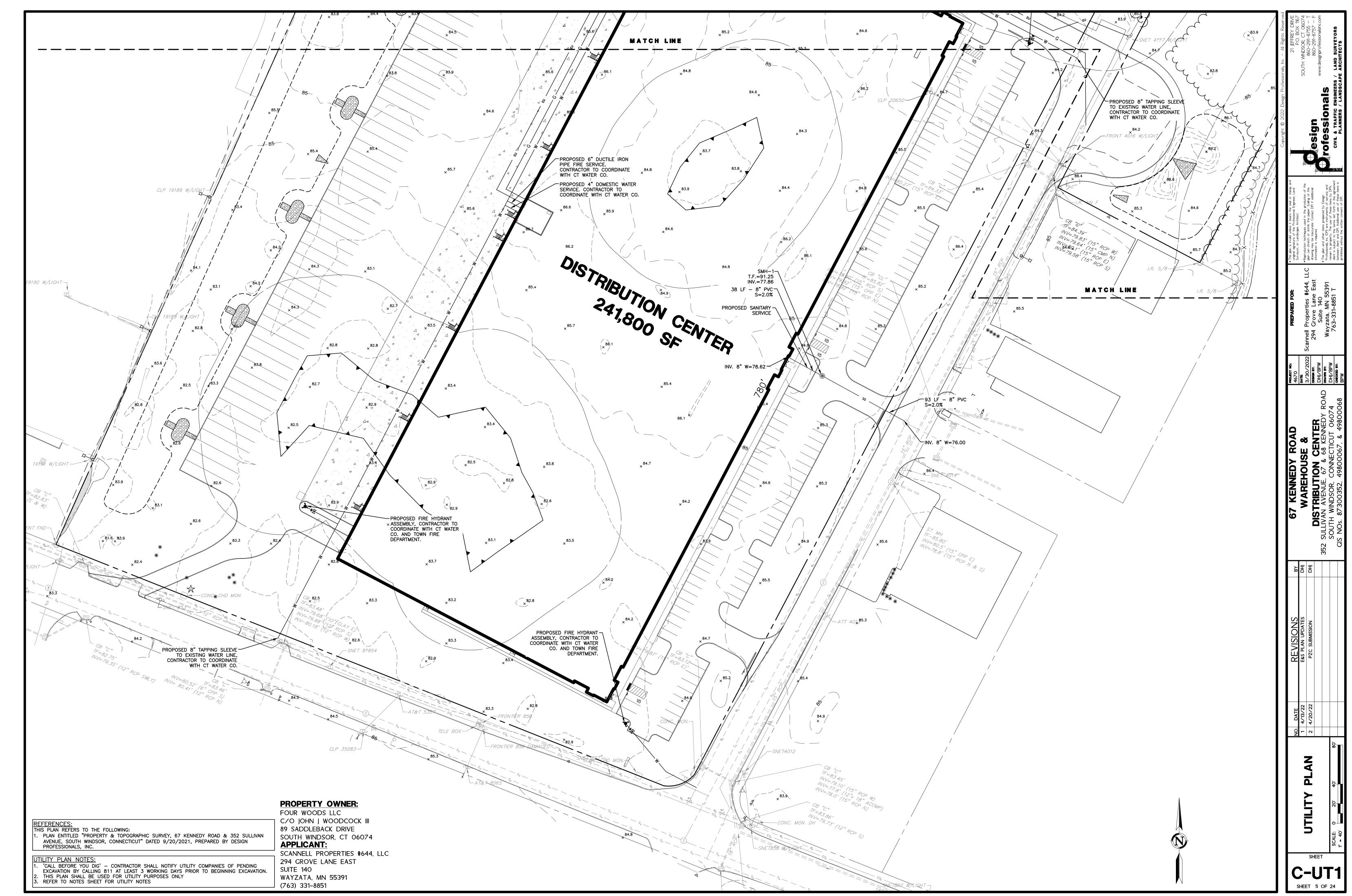
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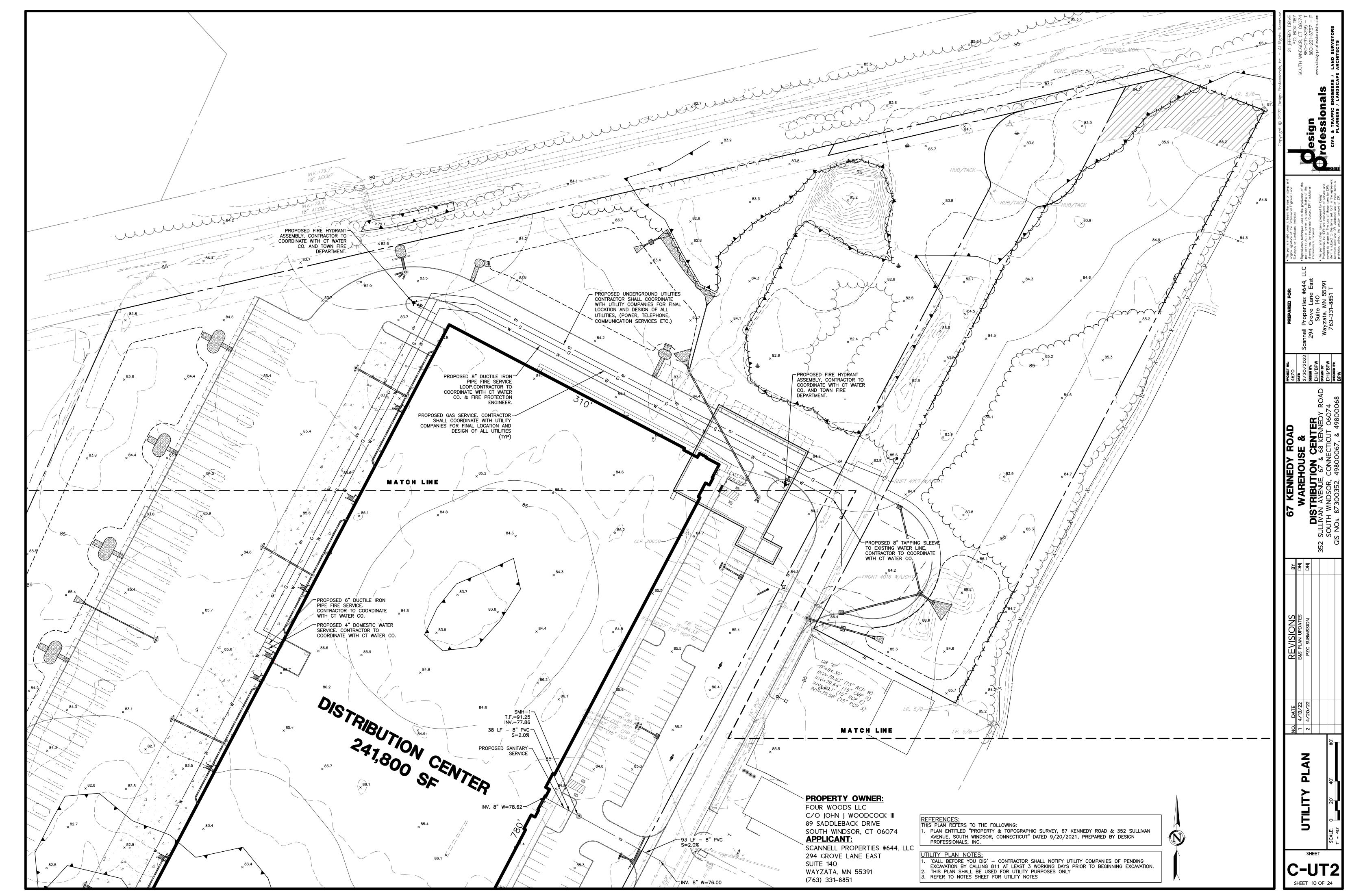


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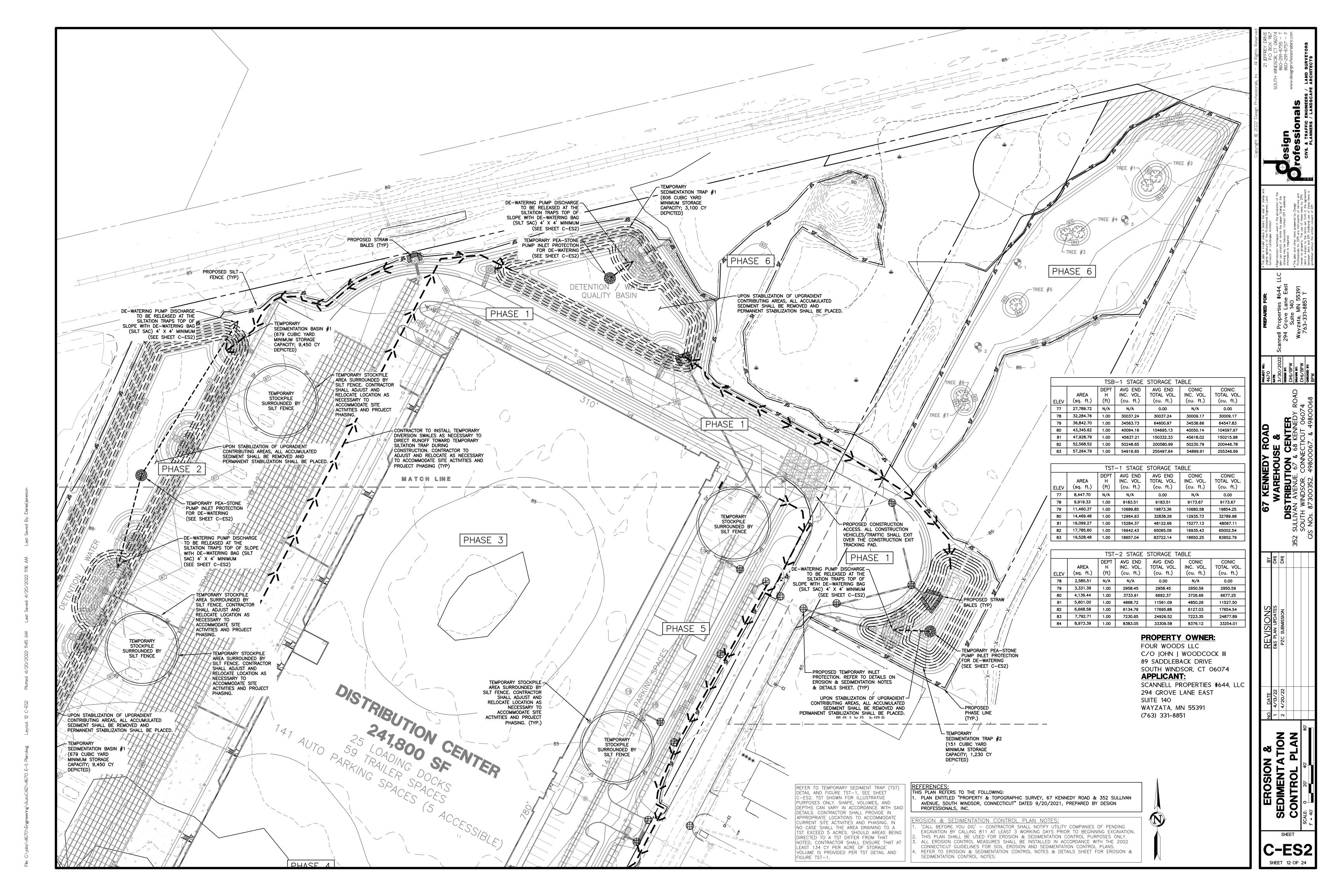


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N.T.S.

CT DOT

- Flevation mark for

REMOVE CB GRATE. PLACE FILTER FABRIC. REPLACE GRATE TAKING CARE NOT TO DAMAGE FILTER FABRIC. ANCHOR WITH STONE OR EARTH PILE. CATCH BASIN GRATE SEDIMENTATION CONTRO

STREET

STONE CHECK DAM

·24' OR DRIVE WIDTH

WHICHEVER IS GREATER

6" THICK LAYER OF RIP RAP CONSISTING OF SOUND, TOUGH,

DURABLE AND ANGULAR ROCK,

1. INSPECT CONSTRUCTION EXIT WEEKLY

3. STONE SHALL BE REMOVED/REPLACED

WHEN EXCESS LEVELS OF MUD ARE

2. WASH WATER, IF USED SHALL BE

FOR SITE CONDITIONS.

**CONSTRUCTION ACCESS** 

PLACED OVER GEOTEXTILE. MAXIMUM

RIPRAP SIZE TO BE 4 INCHES AND

NOT MORE THAN 10% LESS THAN 2

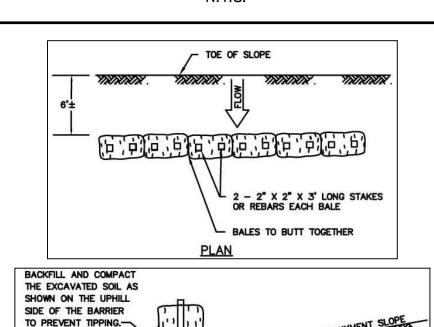
AND AFTER EVERY MAJOR STORM EVENT

DIRECTED TOWARDS A SEDIMENT SIZED

- ANCHOR WITH TWO 2"x2"x3" STAKES IN EACH BALE

STRAW BALE INSTALLATION AT CATCH **BASINS** 

N.T.S.



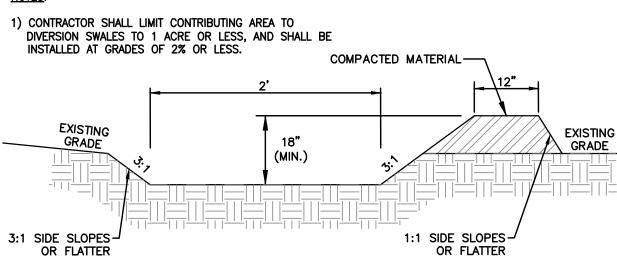
18" MIN. INTO GROUND -HAYBALES SHALL BE MAINTAINED AND/OR REPLACED AS REQUIRED OR AS DIRECTED BY THE ENGINEER.

WIRE IS PARALLEL TO THE EXISTING GROUND.

STRAW BALES FOR EROSION **CONTROL** 

TRENCH 4" BELOW GRADE

N.T.S.



TEMPORARY DIVERSION SWALE N.T.S.

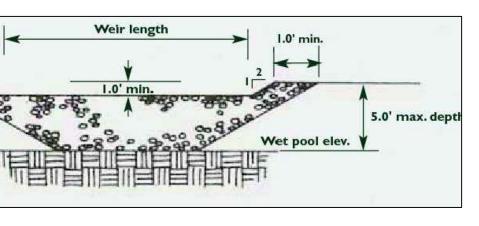
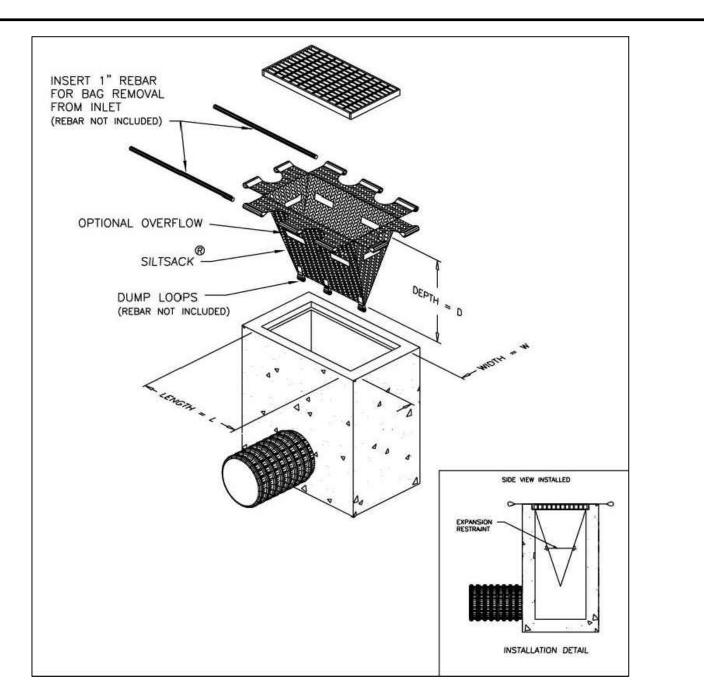


Figure TST-1 Formula for Figuring Temporary Sediment Trap Storage Requirements Wet storage volume may be approximated as follows:  $Vw = 0.85 \times A_{m} \times D_{m}$  $V_{w}$  = the wet storage volume in cubic feet  $A_{m}$  = the surface area of the flooded area at the base of the stone outlet in square feet  $D_{uv}$  = the maximum depth in feet, measured from the low point in the trap to the base of the stone Dry storage volume may be approximated as follows:  $V_d$  = the dry storage volume  $A_w$  = the surface area of the flooded area at the base of the stone outlet in square feet.  $A_d$  = the surface area of the flooded area at the top of the stone outlet (over flow mechanism), in  $D_{d}$  = the depth in feet, measured from the base of the stone outlet to the top of the stone outlet Note: Conversion between cubic feet and cubic yards is: cubic feet x 0.037 = cubic yards.

REFER TO 2002 CT GUIDELINES FOR SOIL AND SEDIMENT CONTROL FOR ADDITIONAL DETAIL AND

VOLUME OF TST SHALL BE A MINIMUM OF 134 CUBIC YARDS PER ACRE DRAINING TO IT. HALF OF THE REQUIRED VOLUME SHALL BE FOR WET STORAGE WHILE THE OTHER HALF SHALL BE FOR DRY STORAGE. REFER TO GENERAL SIZING CALCULATIONS FOR TST BELOW.

> TEMPORARY SEDIMENT TRAP N.T.S.



CURB-LESS INLET PROTECTION DETAIL N.T.S.

**CONSTRUCTION SEQUENCE:** 

INSTALL CONSTRUCTION ACCESS AT DRIVEWAYS OR OTHER LOCATIONS AS SHOWN ON PLANS. MAINTAIN THE CONSTRUCTION ENTRANCE IN A CONDITION WHICH WILL PREVENT TRACKING AND WASHING OF SEDIMENT ONTO ABUTTING PAVED SURFACES. ADD STONE OR INCREASE THE LENGTH AS CONDITIONS DEMAND.

2. STAKE-OUT THE LIMITS OF CLEARING AND GRUBBING. INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AT LIMITS OF CLEARING AND GRUBBING. CONTRACTOR TO CONDUCT ALL CONSTRUCTION ACTIVITIES WITHIN LIMITS SHOWN ON PLAN.

3. CONSTRUCT TEMPORARY SEDIMENT BASINS AND/OR TRAPS AS SHOWN ON THE PLANS.

REMOVE TOPSOIL FROM AREAS OF DISTURBANCE AND STOCKPILE. POSSIBLE STOCKPILE LOCATIONS ARE SHOWN ON THE SITE PLANS. HOWEVER, LOCATIONS SHALL BE DETERMINED BY CONTRACTOR WITH APPROVAL BY THE ENGINEER & LOCAL AUTHORITY HAVING JURISDICTION. RING SOIL STOCKPILES WITH A ROW OF SILT

5. ESTABLISH VEGETATION ON ALL DISTURBED SOIL THAT WILL REMAIN EXPOSED FOR LONGER THAN 30 DAYS. SEED WITHIN 7 DAYS AFTER THE SUSPENSION OF GRADING WORK WITH A TEMPORARY SEED MIXTURE PER SECTION 5-3 "VEGETATIVE SOIL COVER" OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL."

6. CREATE TEMPORARY DIVERSION SWALES AS REQUIRED.

ANY DEWATERING ACTIVITIES SHALL BE PUMPED TO TEMPORARY SILTATION BASINS AT THE TOP OF THE SLOPE. PUMPED DISCHARGE MUST UTILIZE SILT-SAC OR APPROVED EQUAL. MONITOR TO ENSURE DISCHARGE FROM BASIN IS NOT CAUSING EROSION DOWNSTREAM.

8. INSTALL STORM DRAINAGE SYSTEM. PROTECT CATCHBASINS AND CULVERT INLETS/OUTLETS WITH INLET PROTECTION AS SHOWN IN THE DETAILS.

9. INSTALL PAVEMENT, SIDEWALKS, CURBING, TOPSOIL, GRASS SEED, AND MULCH.

10. AFTER STABILIZATION OF UPGRADIENT CONTRIBUTING AREAS TO THE TEMPORARY SEDIMENT BASINS AND/OR TRAPS, ALL ACCUMULATED SEDIMENT SHALL BE REMOVED AND PERMANENT STABILIZATION

11. MINOR ADJUSTMENTS TO THE EXCAVATION LIMITS MAY BE WARRANTED WITH APPROVAL OF LOCAL AUTHORITY HAVING JURISDICTION TO ALLOW FOR PRESERVATION OF EXISTING VEGETATION.

12. ALL EROSION CONTROL DEVICES SHALL REMAIN FUNCTIONAL AND IN PLACE THROUGHOUT THE CONSTRUCTION EFFORT UNTIL THE SITE IS FULLY STABILIZED WITH VEGETATION.

STORM DRAINAGE SYSTEM MAINTENANCE AND OPERATION:

THE FOLLOWING MAINTENANCE SHALL BE REQUIRED TO ENSURE EFFICIENT OPERATION OF THE STORM DRAINAGE SYSTEM, DETENTION BASIN, AND UNDERGROUND BASINS. THE MAINTENANCE SCHEDULE IS INTENDED TO BE A GUIDE. AN INSPECTION OF ALL STORM DRAINAGE COMPONENTS IS REQUIRED FOLLOWING LARGE STORM EVENTS (0.5 INCHES OR GREATER) THAT COULD CAUSE THE DEPOSITION OF EXCESS DEBRIS.

PIPE OUTLET LOCATIONS: PIPE OUTLETS AND ASSOCIATED RIPRAP SHALL BE INSPECTED ANNUALLY AND CLEANED OF SILT AND/OR DEBRIS. RIPRAP SHALL BE RE-SHAPED AND REPLENISHED AS REQUIRED.

CATCHBASINS: SHALL BE INSPECTED ANNUALLY AND SUMPS CLEANED WHEN DEPTH OF MATERIAL REACHES

PAVEMENT SWEEPING: PAVEMENT AREAS SHALL BE SWEPT AT LEAST TWICE PER YEAR. ONCE IN THE SPRING SHORTLY AFTER THE END OF THE SNOW SEASON, AND IN THE FALL AFTER THE LEAVES HAVE FALLEN. DURING CONSTRUCTION KEEP PAVEMENT FREE OF SEDIMENTS TO REDUCE THE TRANSFER OF SEDIMENTS OFFSITE.

OUTLET STRUCTURE: SHALL BE INSPECTED ANNUALLY AND SUMP CLEANED WHEN DEPTH OF MATERIAL REACHES TWELVE INCHES. IN THE EVENT OF A MAJOR RAINSTORM, (0.5 INCHES OF RAIN OR MORE) THE OUTLET STRUCTURE SHALL BE INSPECTED TO ENSURE PROTECTIVE SCREENS ARE CLEAR OF ANY DEBRIS OR

UNDERGROUND DETENTION SYSTEM: SHALL BE INSPECTED BI-ANNUALLY. REFER TO MANUFACTURING

WATER QUALITY BASIN: SHALL BE INSPECTED TWICE PER YEAR, ALL WOODY, NON LANDSCAPE GROWTH SHALL BE REMOVED. ANY EROSION/RILLS NOTED WITHIN THE BASIN SHALL BE REPAIRED TO PROVIDE STABILIZED SURFACES. ANY EROSION OR OTHER NOTED DEFICIENCIES THAT WOULD AFFECT THE OPERATION OF THE BASIN OR CAUSE RESOURCE AREA IMPACTS SHALL BE REMEDIED IMMEDIATELY. THE BASIN SHALL BE MONITORED TO ASSURE PROPER DEWATERING/EMPTYING OF STORMWATER. BASIN SHALL COMPLETELY DEWATER/EMPTY WITH 72 HOURS AFTER A STORM EVENT. IF STANDING WATER IS OBSERVED AFTER THIS 72 HOUR PERIOD, THE BOTTOM OF BASIN SHALL BE EXCAVATED TO THE UPPER LAYER OF THE FILTER FABRIC/SUB-DRAIN, AND REPLACE WITH 4" OF LOAM AND SEED.

EROSION & SEDIMENTATION CONTROL MAINTENANCE AND INSPECTION PROGRAM (WEEKLY CONSTRUCTION REPORTS):

PER RECOMMENDATIONS MADE IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL PLAN, THE CONTRACTOR SHALL MAINTAIN WEEKLY REPORTS ON THE CONDITION OF ALL EROSION CONTROL MEASURES AND MAKE THEM AVAILABLE UPON REQUEST OF OWNER, LOCAL AUTHORITY HAVING JURISDICTION, OR ENGINEER. IN THE EVENT OF A MAJOR RAINSTORM, (0.5 INCHES OR GRATER) REPORTS SHALL BE PREPARED WITHIN 24 HOURS OF SAID EVENT.

**EROSION & SEDIMENTATION CONTROL NARRATIVE** 

TO BE WRAPPED WITH 2-

SECURED WITH A LAYER OF HARDWARE CLOTH OR

SIMILAR MESH.

LAYERS OF MIRAFI FABRIC

15" SOLID ADS N-12 W/

1" DIA. HOLES DRILLED INTO INDENTS OF

PRIOR TO THE START OF CONSTRUCTION, ALL EROSION CONTROL DEVICES SHALL BE INSTALLED IN CONFORMANCE WITH THESE PLANS.

2. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION OF ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHOWN ON THESE PLANS. THIS RESPONSIBILITY INCLUDES IMPLEMENTATION AS WELL AS MAINTENANCE. ANY PROPOSED CHANGES TO THIS PLAN MUST BE APPROVED BY THE ENGINEER AND/OR THE LOCAL AUTHORITY HAVING JURISDICTION.

3. CONSTRUCTION ACCESS SHALL BE INSPECTED REGULARLY TO ENSURE PROPER OPERATION. STONE SHALL BE ADDED OR REPLACED AS REQUIRED.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ADJACENT ROADWAYS, (BOTH PUBLIC & COMPLETED PORTIONS OF THE PROJECT) FREE FROM ACCUMULATED DUST AND DIRT. STREETS SHALL BE SWEPT CLEAN AT ALL TIMES.

AREAS WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED OR WHEN FINAL GRADES ARE REACHED IN ANY PORTION OF THE SITE, SHALL BE STABILIZATION WITH FINAL VEGETATION WITHIN 7 DAYS. AREAS TO BE LEFT BARE FOR MORE THAN 30 DAYS SHALL BE TREATED WITH AIR DRIED WOOD CHIP MULCH (6 CYDS / 1000 S.F.) OR SEEDED WITH PERENNIAL RYE-GRASS UNTIL FINAL GRADING AND STABILIZATION TAKES PLACE. WINTER STABILIZATION SHALL INCLUDE MULCH/STRAW OR HAY APPLIED AT THE SAME RATE WITH A TACKIFIER PER RECOMMENDATIONS MADE IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

~4" ADS N-12

(SEE NOTE 1)

-3/8" PEA STONE AROUND BASE.

1. ALL PUMPED DISCHARGE FROM BASIN SHALL PASS THROUGH A DE-WATERING

TEMPORARY SEDIMENT BASIN

DE-WATERING

BAG (SILT SAC). THE DE-WATERING BAG SHALL BE 4' x 4' (MINIMUM).

(PUMP TO BASIN SPILLWAY)

6. ALL DISTURBED SLOPES EXCEEDING A 3:1 SLOPE SHALL IMMEDIATELY RECEIVE MULCH AND TEMPORARY SEEDING IN ACCORDANCE WITH THE FOLLOWING APPLICATION RATES:

MULCH: 90# / 1000 S.F.

1.0# / 1000 S.F. PERENNIAL RYEGRASS

7. CONTRACTOR SHALL CLEAN CATCHBASIN SUMPS, DIVERSION SWALES, & TEMPORARY SETTLING SUMPS AS REQUIRED DURING CONSTRUCTION.

8. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL MANAGE STORMWATER RUNOFF SO THAT NO

DIRECT DISCHARGE OF RUNOFF THAT CONTAINS SUSPENDED PARTICLES, FLOWS INTO RECEIVING

WATERS. RUNOFF SHALL BE DIRECTED INTO TEMPORARY SEDIMENT SUMPS AND TREATED. 9. AT NO TIME DURING THE CONSTRUCTION EFFORT SHALL THERE BE ANY OPEN AND DISTURBED AREA GREATER THAN 5 ACRES WITHOUT SILT FENCE PERIMETER OF SET AREA.

10. AFTER ALL SITE WORK IS COMPLETED, INCLUDING THE SPREADING OF TOPSOIL AND SEEDING, THE CONTRACTOR SHALL CLEAN ANY SILT OR DEBRIS FROM ALL STORM DRAINAGE STRUCTURES AND

11. AT ALL TIMES DURING THE CONSTRUCTION EFFORT, THE CONTRACTOR SHALL HAVE AVAILABLE THE APPROPRIATE EQUIPMENT FOR WATER APPLICATION FOR THE PURPOSES OF ALLAYING DUST. APPLY WATER, SUITABLE MATERIALS, OR COVERS TO MATERIAL STOCKPILES AND OTHER SURFACES THAT CAN GIVE RISE TO AIRBORNE PARTICULATE MATTER. COVER, WHILE IN MOTION, OPEN-BODIED TRUCKS OR OPEN-BODIED TRAILERS. MINIMIZE THE VOLUME OF WATER SPRAYED FOR CONTROLLING DUST AS TO PREVENT THE RUNOFF OF WATER. NO DISCHARGE OF DUST CONTROL WATER SHALL CONTAIN OR CAUSE A VISIBLE OIL SHEEN, FLOATING SOLIDS, VISIBLE DISCOLORATION, OR FOAMING IN THE RECEIVING STREAM.

12. THE DEVELOPER SHALL ENSURE THAT CONSTRUCTION ACTIVITIES COMPLY WITH THE NOISE ORDINANCES OF THE AUTHORITY HAVING JURISDICTION.

13. THE CONTRACTOR SHALL EXCAVATE A PIT TO BE DESIGNATED AS A WASHOUT AREA FOR CONCRETE, PAINT, AND OTHER MATERIALS. THIS AREA SHALL BE CLEARLY FLAGGED AND CONSTRUCTED TO BE ENTIRELY SELF-CONTAINED. THIS AREA SHALL BE OUTSIDE OF ANY BUFFERS AND AT LEAST 50 FEET FROM ANY STREAM, WETLAND, OR OTHER SENSITIVE SOURCE. DUMPING OF LIQUID WASTES IN STORM SEWERS IS PROHIBITED. THE WASHOUT AREA SHALL BE INSPECTED AT LEAST ONCE A WEEK TO ENSURE STRUCTURAL INTEGRITY, ADEQUATE HOLDING CAPACITY, AND TO CHECK FOR LEAKS AND OVERFLOWS. ACCUMULATED DEBRIS SHOULD BE REMOVED ONCE THE WASHOUT AREA REACHES HALF WAY FULL OR IS DEEMED NECESSARY TO AVOID OVERFLOWS. REMOVE AND DISPOSE OF HARDENED CONCRETE WASTE CONSISTENT WITH PRACTICES DEVELOPED FOR THE WASTE DISPOSAL.

14. THE CONTRACTOR SHALL DESIGNATE A WASTE DISPOSAL AREA FOR TEMPORARY STORAGE OF MATERIALS TO BE REMOVED FROM THE SITE. THE DESIGNATED WASTE AREA SHALL BE SELECTED AS TO MINIMIZE TRUCK TRAVEL THROUGH THE SITE. THE AREA WILL NOT DRAIN DIRECTLY TO ADJACENT WETLANDS. PICKUPS SHALL BE SCHEDULED REGULARLY TO PREVENT THE CONTAINERS FROM OVERFILLING. SPILLS SHALL BE CLEANED UP IMMEDIATELY. DEFECTIVE CONTAINERS THAT MAY CAUSE LEAKS OR SPILLS WILL BE IDENTIFIED THROUGH REGULAR INSPECTION. ANY FOUND TO BE DEFECTIVE WILL BE REPAIRED OR REPLACED IMMEDIATELY. ANY STOCKPILING OF MATERIALS SHOULD BE CONFINED TO THE DESIGNATED AREA AS DEFINED BY THE CONTRACTOR.

15. ALL CHEMICAL AND PETROLEUM PRODUCT CONTAINERS STORED ON THE SITE (EXCLUDING THOSE CONTAINED WITHIN VEHICLES AND EQUIPMENT) SHALL BE PROVIDED WITH IMPERMEABLE CONTAINMENT WHICH WILL HOLD AT LEAST 110% OF THE VOLUME OF THE LARGEST CONTAINER, OR 10% OF THE TOTAL VOLUME OF ALL CONTAINERS IN THE AREA, WHICHEVER IS LARGER, WITHOUT OVERFLOW FROM THE CONTAINMENT AREA. ALL CHEMICALS AND THEIR CONTAINERS SHALL BE STORED UNDER A ROOFED AREA EXCEPT FOR THOSE CHEMICALS STORED IN CONTAINERS OF 100 GALLON CAPACITY OR MORE, IN WHICH CASE A ROOF IS NOT REQUIRED. DOUBLE-WALLED TANKS SATISFY THIS

16. CONTRACTOR SHALL COORDINATE WITH THE PROPER AGENCIES FOR RELOCATION OF ANY UTILITIES OR

17. IF REQUIRED, AN APPROVED EROSION CONTROL BOND SHALL BE PREPARED BEFORE THE START OF ANY CONSTRUCTION ACTIVITY.

18. FROZEN MATERIAL SHALL NOT BE USED FOR FILL NOR SHALL FILL BE PLACED OR COMPACTED ON FROZEN GROUND.

> ESTIMATED CONSTRUCTION START DATE - SPRING 2023 ESTIMATED COMPLETION DATE SPRING 2024

CONSTRUCTION DUST CONTROL NOTES

 IDENTIFY AND ADDRESS SOURCES OF DUST GENERATED BY CONSTRUCTION ACTIVITIES. LIMIT CONSTRUCTION TRAFFIC TO PREDETERMINED ROUTES. PAVED SURFACES REQUIRE MECHANICAL SWEEPERS TO REMOVE SOIL THAT HAS BEEN DEPOSITED OR TRACKED ONTO THE PAVEMENT. ON UNPAVED TRAVELWAYS AND TEMPORARY HAUL ROADS, USE ROAD CONSTRUCTION STABILIZATION MEASURES AND/OR WATER AS NEEDED TO KEEP SURFACE DAMP. STATIONARY SOURCES OF DUST, SUCH AS ROCK CRUSHERS, USE FINE WATER SPRAYS TO CONTROL DUST. IF WATER IS EXPECTED TO BE NEEDED FOR DUST CONTROL, IDENTIFY THE SOURCE OF WATER IN ADVANCE. PUMPING FROM STREAMS, POND AND SIMILAR WATERBODIES MAY REQUIRE APPROVAL FROM THE MUNICIPAL INLAND WETLAND AGENCY.

 IDENTIFY AND ADDRESS SOURCES OF WIND GENERATED DUST. PROVIDE SPECIAL CONSIDERATION TO HILL TOPS AND LONG REACHES OF OPEN GROUND WHERE SLOPES MAY BE EXPOSED TO HIGH WINDS. CONSIDER BREAKING UP LONG REACHES WITH TEMPORARY WINDBREAKS CONSTRUCTED FROM BRUSH PILES, GEOTEXTILE SILT FENCES OR HAY BALES. PLAN ON STABILIZING SLOPES EARLY. MULCH FOR SEED WILL REQUIRE ANCHORING WHEN USED.

 CONSIDER WATER QUALITY WHEN SELECTING THE METHOD AND/OR MATERIALS USED FOR DUST. CONTROL. WHEN CONSIDERING THE USE OF CALCIUM CHLORIDE, BE AWARE OF THE FOLLOWING: THE RECEIVING SOIL'S PERMEABILITY SO AS TO PREVENT GROUNDWATER CONTAMINATION: THE TIMING OF THE APPLICATION TO RAINFALL TO PREVENT WASHING OF SALTS INTO SENSITIVE AREAS SUCH AS WETLANDS AND WATERCOURSES; AND PROXIMITY TO SENSITIVE AREAS SUCH AS WATERCOURSES, PONDS, ESTABLISHED OR SOON TO BE ESTABLISHED AREA OF PLANTINGS, WHERE SALTS COULD IMPAIR OR DESTROY PLANT AND ANIMAL LIFE. ADDITIONALLY, SOME MATERIALS USED FOR DUST CONTROL MAY BE RENDERED INEFFECTIVE BY DEGRADED WATER QUALITY IF IT IS USED FOR MIXING.

 CONSIDER USING DUST CONTROL MEASURES ONLY AFTER IT IS DETERMINED THAT OTHER MEASURES FOR SOIL STABILIZATION CANNOT BE PRACTICALLY APPLIED.

USE MECHANICAL SWEEPING ON PAVED AREAS WHERE DUST AND FINE MATERIALS ACCUMULATE AS A RESULT OF TRUCK TRAFFIC, PAVEMENT SAW CUTTING SPILLAGE, AND WIND OR WATER DEPOSITION FROM ADJACENT DISTURBED AREAS. SWEEP DAILY IN HEAVILY TRAFFICKED AREAS.

PERIODICALLY MOISTEN EXPOSED SOIL SURFACES ON UNPAVED TRAVELWAYS TO KEEP THE TRAVELWAY

 NON-ASPHALTIC SOIL TACKIFIER CONSISTS OF AN EMULSIFIED LIQUID SOIL STABILIZER OF ORGANIC INORGANIC OR MINERAL ORIGIN, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING: MODIFIED RESINS, CALCIUM CHLORIDE, COMPLEX SURFACTANT, COPOLYMERS OR HIGH GRADE LATEX ACRYLICS. THE SOLUTIONS SHALL BE NONASPHALTIC, NONTOXIC TO HUMAN, ANIMAL AND PLANT LIFE, NONCORROSIVE AND NONFLAMMABLE. MATERIALS USED SHALL MEET LOCAL, STATE AND FEDERAL GUIDELINES FOR INTENDED USE. ALL MATERIALS ARE TO BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND ALL SAFETY GUIDELINES SHALL BE FOLLOWED IN STORING, HANDLING AND APPLYING MATERIALS.

REPEAT APPLICATION OF DUST CONTROL MEASURES WHEN FUGITIVE DUST BECOMES EVIDENT.

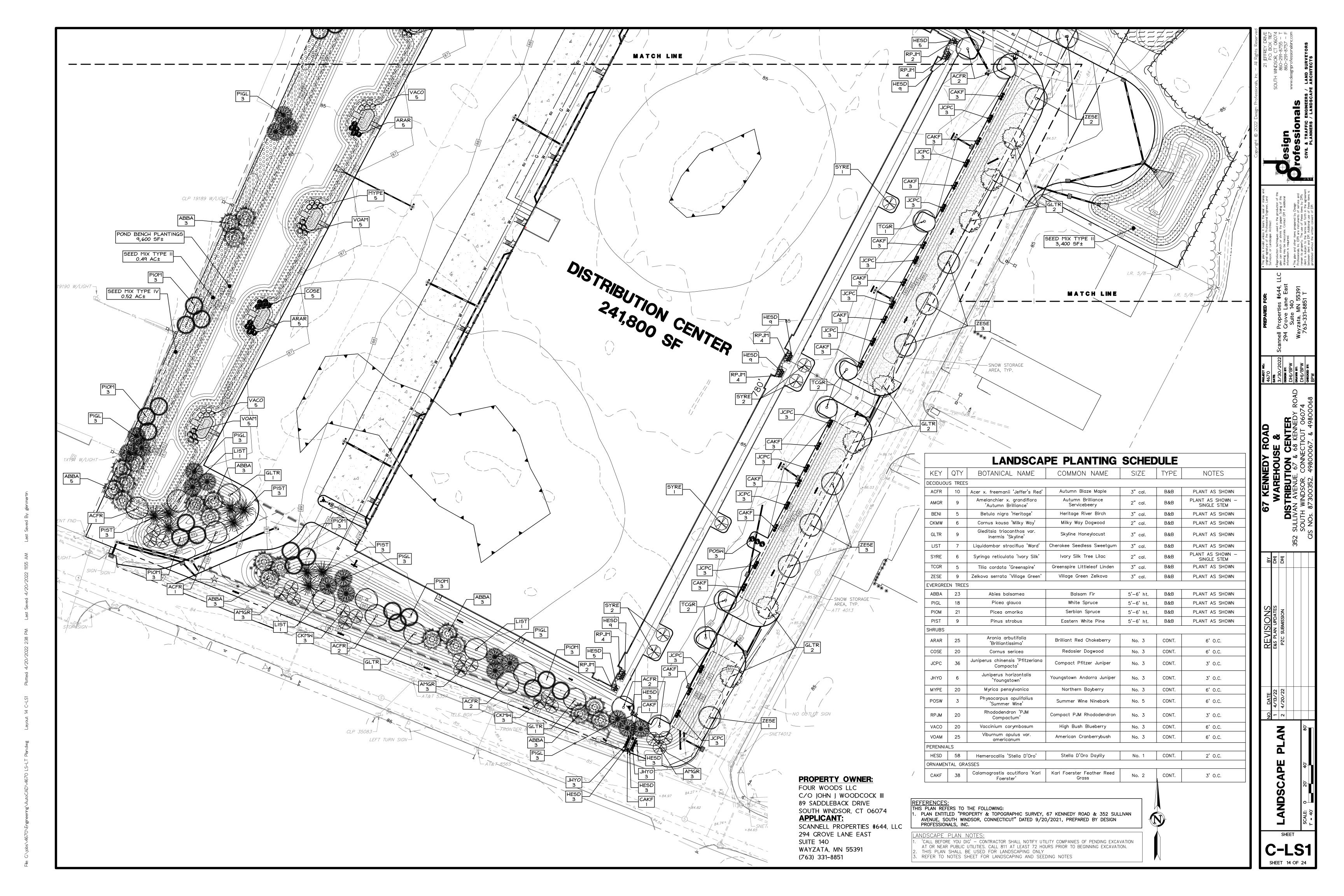
PROJECT CONTACT INFO:

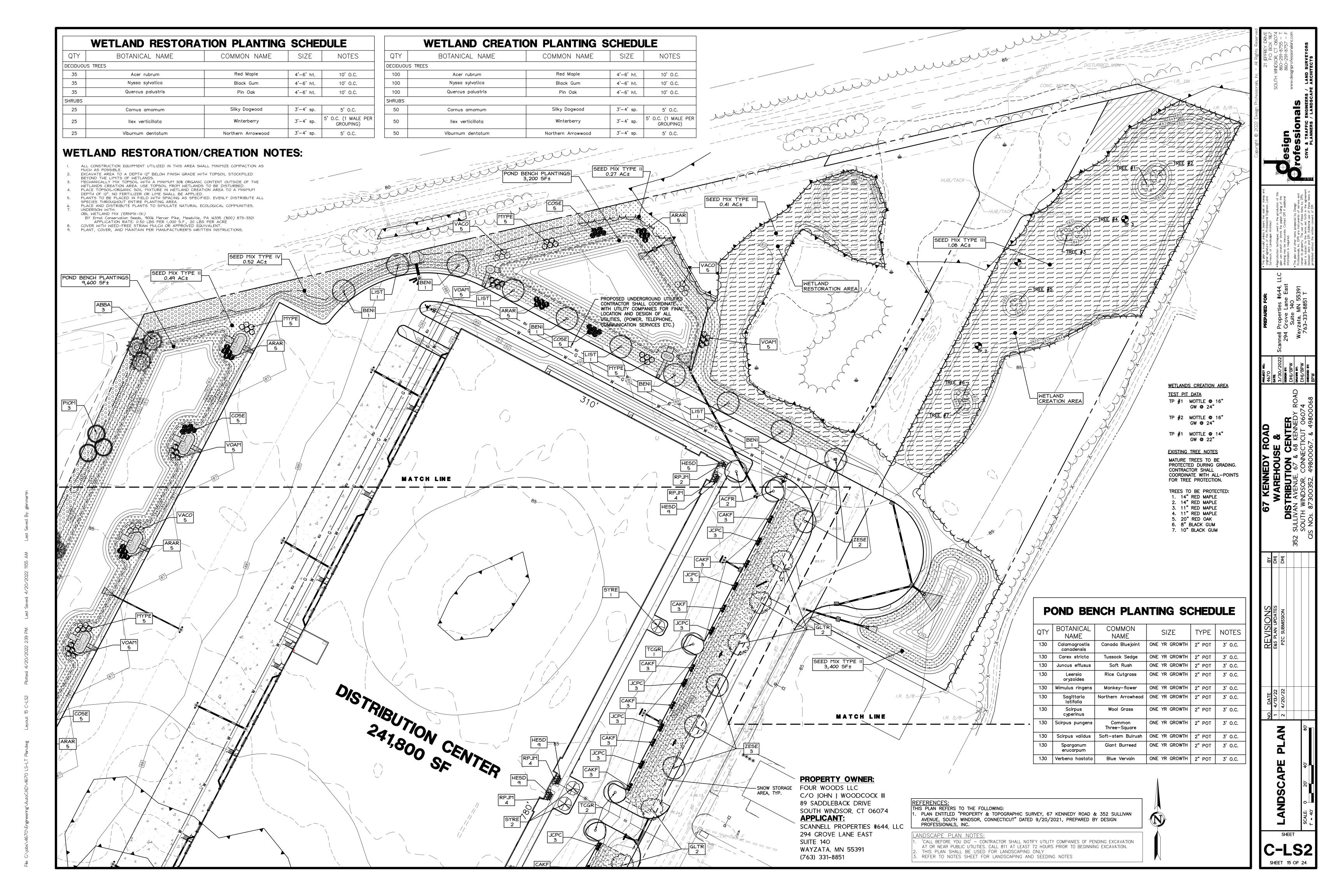
SCANNELL PROPERTIES #664, LLC 294 GROVE LANE EAST SUITE 140 WAYZATA, MN 55391

PROPERTY OWNER: FOUR WOODS LLC C/O JOHN J WOODCOCK III 89 SADDLEBACK DRIVE

SCANNELL PROPERTIES #644, LLC

SOUTH WINDSOR, CT 06074 **APPLICANT:** 294 GROVE LANE EAST SUITE 140 WAYZATA, MN 55391 (763) 331–8851





AND MULCH, WATER AND MAINTAIN LAWN AREAS UNTIL ALL AREAS ARE STABILIZED AND ACCEPTED BY OWNER'S REPRESENTATIVE.

PLANTS: ALL PLANTS SHALL COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.I "AMERICAN STANDARD OF NURSERY STOCK." PROVIDE PLANTS TYPICAL OF THEIR SPECIES OR VARIETY WITH NORMAL, DENSELY-DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM INSECT PESTS, DISEASES, AND PHYSICAL INJURY. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACES.

SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACES.

5. BALLED AND BURLAPPED PLANTS: DIG BALLED AND BURLAPPED PLANTS WITH FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF PLANT, PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". CRACKED OR MUSHROOMED BALLS ARE NOT ACCEPTABLE.

5.A. BARE-ROOT PLANTS: DUG WITH ADEQUATE FIBROUS ROOTS, COVERED WITH A UNIFORMLY THICK COATING OF MUD BY BEING PUDDLED IMMEDIATELY AFTER THEY ARE DUG, OR PACKED IN MOIST STRAW OR PEAT

MOSS.

CONTAINER-GROWTH STOCK: GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT

SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.

3.A. CONTAINER STOCK SHALL NOT BE POT BOUND.

3.B. CONTAINER STOCK SHALL NOT BE LOOSE IN THE CONTAINER.

B.B. CONTAINER STOCK SHALL NOT BE LOOSE IN THE CONTAINER.

ALL PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT, FOR AT LEAST ONE YEAR.

CONTRACTOR RESPONSIBLE TO WARRANT PLANT MATERIAL TO REMAIN ALIVE AND BE HEALTHY, VIGOROUS CONDITION FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE OF ENTIRE PROJECT INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM NEGLECT BY OWNER, ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND CONTRACTOR'S CONTROL.

CONTRACTOR TO REMOVE AND REPLACE TREES, SHRUBS, OR OTHER PLANTS FOUND TO BE DEAD OR IN

UNHEALTHY CONDITION DURING WARRANTY PERIOD AT CONTRACTOR'S EXPENSE. REPLACE TREES AND SHRUBS WHICH ARE IN DOUBTFUL CONDITION AT END OF WARRANTY PERIOD, AND EXTEND WARRANTY PERIOD FOR AN ADDITIONAL GROWING SEASON FOR THE REPLACEMENT PLANTS.

3. CONTRACTOR RESPONSIBLE FOR PLANTING UNDER FAVORABLE WEATHER CONDITIONS AND RECOMMENDED SEASON FOR PLANT SURVIVAL AND ESTABLISHMENT. AT OPTION OF, AND UNDER FULL RESPONSIBILITY OF CONTRACTOR, PLANTING OPERATIONS MAY BE CONDUCTED UNDER UNSEASONABLE CONDITIONS, BUT WITHOUT ADDITIONAL COMPENSATION. IF SPECIAL CONDITIONS EXIST TO REQUIRE PLANTING OVISIDE THE ABOVE SPECIFIED DATES, THE CONTRACTOR SHALL SUBMIT IN WRITING FOR PERMISSION BY THE OWNER'S REPRESENTATIVE. ANY VARIANCE IN THE PLANTING SEASON WILL NOT AFFECT THE ONE YEAR PLANTING

GUARANTEE PERIOD.

9. DO NOT MAKE SUBSTITUTIONS. IF SPECIFIED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY TO OWNER TOGETHER WITH PROPOSAL FOR USE OF EQUIVALENT MATERIAL. SUBSTITUTION OF PLANTS WILL NOT BE PERMITTED UNLESS APPROVED IN WRITING BY THE OWNER.

9.A. ROOT TYPES MAY BE FREELY SUBSTITUTED IN THE CASE OF BALLED AND BURLAPPED, OR CONTAINER GROWN. ALL OTHER SPECIFICATIONS REMAINING UNCHANGED. BARE ROOT OR COLLECTED PLANTS ARE NOT ACCEPTABLE AS SUBSTITUTES WITHOUT RECEIPT OF A CHANGE ORDER.

NOT ACCEPTABLE AS SUBSTITUTES WITHOUT RECEIPT OF A CHANGE ORDER.

10. PROVIDE A MINIMUM OF 12" OF PLANTING SOIL MIXTURE IN ALL PLANTING BEDS.

11. PLANTING SOIL MIXTURE (BY VOLUME) SHALL BE EQUAL TO:

A. BARK MULCH/COMPOST 10%-12%

C. TOPSOIL 45-50%

2. PRIOR TO PLANTING, THE CONTRACTOR SHALL OBTAIN SOIL TEST FROM A CERTIFIED SOIL LABORATORY FOR ALL AREAS OF THE SITE WITH RECOMMENDATIONS FOR APPROPRIATE SOIL AMENDMENTS FOR THE TYPES OF PLANTS SPECIFIED.

12.A. LIME SHALL BE PELLETIZED LIME MANUFACTURED TO MEET AGRICULTURAL STANDARDS AND CONTAIN A MAXIMUM OF 60% OXIDE. (I.E., CALCIUM OXIDE PLUS MAGNESIUM OXIDE).

12.B. FERTILIZER SHALL BE OF A FORMULA INDICATED BY THE SOIL TESTING TO ACHIEVE A MINIMUM OF ONE POUND OF NITROGEN PER 1000 S.F. OF LAWN AREA. FERTILIZER SHALL BE A MINIMUM OF 50% ORGANIC

POUND OF NITROGEN PER 1000 S.F. OF LAWN AREA. FERTILIZER SHALL BE A MINIMUM OF 50% ORGANIC SLOW-RELEASE COMPOSITION.

1.C. NO SOIL AMENDMENTS OR FERTILIZER SHALL BE USED FOR AREA DISTURBED WITHIN WETLANDS OR CREATED WATER QUALITY BASINS

1.D. CONTRACTOR TO HAVE FERTILIZER MATERIALS DELIVERED IN ORIGINAL, UNOPENED, AND UNDAMAGED CONTAINERS SHOWING WEIGHT, ANALYSIS, AND NAME OF MANUFACTURER. STORE IN MANNER TO PREVENT WETTING AND DETERIORATION.

DELAY MIXING FERTILIZER IF PLANTING WILL NOT FOLLOW PLACING OF PLANTING SOIL WITHIN A FEW DAYS. DAYLILIES AND PERENNIALS SHALL BE INSTALLED AT 24" O.C., UNLESS NOTED OTHERWISE. APPLY 2" OF BARK MULCH, IN AREAS OF GROUND COVER AND PERENNIALS OR OWNER SELECTED ANNUALS. NO PLANT, EXCEPT GROUND COVERS, GRASSES, OR VINES, SHALL BE PLANTED LESS THAN TWO FEET FROM STRUCTURES, EDGE OF PAVEMENT, OR BACK OF CURB.

TREES IN EXCESS OF 3" CALIPER SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO THE SPECIFICATIONS AND APPROVAL OF LANDSCAPE ARCHITECT AT THEIR PLACE OF GROWTH AND UPON DELIVERY. WRITTEN REQUEST SHALL BE SUBMITTED 10 DAYS PRIOR.

CONTRACTOR RESPONSIBLE TO SUBMIT CERTIFICATES OF INSPECTION AS REQUIRED BY GOVERNMENTAL AUTHORITIES. LANDSCAPE MATERIALS TO BE SHIPPED WITH CERTIFICATES OF INSPECTION REQUIRED BY GOVERNMENTAL AUTHORITIES. COMPLY WITH REGULATIONS APPLICABLE TO LANDSCAPE MATERIALS AND CONTRACTOR TO SUBMIT MANUFACTURER'S OR VENDOR'S CERTIFIED ANALYSIS FOR FERTILIZER MATERIALS. MOVING AND STORAGE OF PLANT MATERIALS: CONTRACTOR TO TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD

TRADE PRACTICE IN PREPARING PLANTS FOR MOVING. WORKMANSHIP THAT FAILS TO MEET THE HIGHEST STANDARDS WILL BE REJECTED.

A. SPRAY DECIDUOUS PLANTS IN FOLIAGE WITH AN APPROVED ANTITRANSPIRANT IMMEDIATELY AFTER DIGGING TO PREVENT DEHYDRATION.

B. LEGIBLY TAG PLANTS WITH BOTANICAL NAME AND SIZE IN ACCORDANCE WITH THE STANDARDS OF PRACTICE OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

C. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. FULLY PROTECT PLANTS FROM DAMAGE BY SUN, WIND, DROUGHT, WATER AND OTHER INJURIOUS CONDITIONS DURING TRANSPORTATION TO SITE AND DURING TEMPORARY STORAGE BEFORE PLANTING.

17.D. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK AND ON ARRIVAL. THE CERTIFICATE SHALL BE FILED WITH THE OWNER.
17.E. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD DAMAGE OR BREAK THE BRANCHES.
18. A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS IS SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.
19. STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED ON THE DRAWINGS. LARGER STOCK IS ACCEPTABLE, AT NO ADDITIONAL COST AND PROVIDING THE LARGER PLANTS WILL NOT BE CUT BACK TO THE SIZE INDICATED ON THE DRAWINGS.
20. THE HEIGHT OF THE TREE, MEASURED FROM THE CROWN OF THE ROOTS TO THE AVERAGE HEIGHT OF THE

THE HEIGHT OF THE TREE, MEASURED FROM THE CROWN OF THE ROOTS TO THE AVERAGE HEIGHT OF THE TOP OF THE TREE, SHALL NOT BE LESS THAN THE MINIMUM SIZE DESIGNATED IN THE PLANT LIST. SHRUBS AND SMALL PLANTS SHALL MEET THE REQUIREMENTS FOR SPREAD AND HEIGHT INDICATED IN THE PLANT LIST.

NO PRUNING WOUNDS SHALL BE PRESENT WITH A DIAMETER OF MORE THAN I INCH AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES.

ANTITRANSPIRANT: PROVIDE PROTECTIVE FILM EMULSION PROVIDING A PROTECTIVE FILM OVER PLANT SURFACES; PERMEABLE TO PERMIT TRANSPIRATION. MIXED AND APPLIED IN ACCORDANCE WITH

MANUFACTURER'S INSTRUCTIONS.

4. WATER IS TO BE SUPPLIED FOR PLANTS THAT IS CLEAN, FREE FROM TOXIC AMOUNTS OF SALT, OIL, ACID ALKALI, ORGANIC MATTER OR OTHER SUBSTANCES HARMFUL TO PLANTS.

5. CONTRACTOR TO PRUNE AND REPAIR PLANTS AS FOLLOWS:

25. CONTRACTOR TO PRUNE AND REPAIR PLANTS AS FOLLOWS:
25.A. REMOVE OR CUT BACK, BROKEN, DAMAGED, AND UNSYMMETRICAL GROWTH OF NEW WOOD.
25.B. MULTIPLE LEADER PLANTS: PRESERVE THE CENTRAL LEADER WHICH WILL BEST PROMOTE THE SYMMETRY OF THE PLANT. CUT BRANCHES FLUSH AT THE BRANCH COLLAR WITH THE TRUNK OR MAIN BRANCH.
25.C. PRUNE NEEDLE-LEAF EVERGREEN TREES ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES.
25.D. ALL TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A

25.D. ALL TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7 FEET ABOVE FINISH GRADE.

MULCH TO BE APPLIED AS FOLLOWS:

AREAS TO RECEIVE MULCH: ALL PLANT BEDS AND OTHER AREAS AS DESIGNATED ON DRAWINGS SHALL BE MULCHED.

BE MULCHED.

BE PLACEMENT: PLACE MULCH TO REQUIRED UNIFORM DEPTH SOON AFTER PLANTING TO PREVENT DRYING OF

PLANTING SOIL AROUND ROOTS, DO NOT PLACE MULCH WITHIN 3" OF TREE TRUNKS.

6.C. APPLY BARK MULCH TO A UNIFORM DEPTH OF 2 INCHES.

6.D. MULCH SHALL BE 6 MONTHS OLD, WELL-ROTTED, SHREDDED, NATIVE HARDWOOD BARK, NOT LARGER THAN 4" IN LENGTH AND 1/2" IN WIDTH, FREE OF WOOD CHIPS AND SAWDUST.

CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF BUNT MATERIALS.

CONTRACTOR RESPONSIBLE FOR MAINTENANCE OF PLANT MATERIALS:

A. MAINTAIN PLANTINGS UNTIL FINAL ACCEPTANCE OF WORK.

B. MAINTENANCE SHALL INCLUDE PRUNING, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS FREE OF INSECTS AND DISEASE.

C. RESET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL.

MATERIAL AND REMOVE DEAD MATERIAL.

CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT.

WATER PLANTINGS IN A SATISFACTORY MANNER DURING AND IMMEDIATELY FOLLOWING PLANTING, TWICE PER WEEK, OR LESS UNDER WET CONDITIONS, UNTIL ACCEPTANCE BY OWNER. PROVIDE ADDITIONAL WATERING DURING EXCESSIVE DRY PERIODS DURING THE MAINTENANCE PERIOD AS DIRECTED BY THE OWNER.

PERIODE OF MANTS, ANY PLANTS TO BE PERIODE TO ACCEPTANCE OF WORK, OR LINDER.

27.F. REPLACEMENT OF PLANTS: ANY PLANTS TO BE REPLACED PRIOR TO ACCEPTANCE OF WORK, OR UNDER TERMS OF GUARANTY SHALL BE INSTALLED FOLLOWING PROCEDURES SET FORTH ABOVE.

3. LANDSCAPE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION.

4. LOCATION, SUPPORT, PROTECTION AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

5. LANDSCAPE CONTRACTOR SHALL CONTACT CALL BEFORE YOU DIG 1-800-922-4455 AT LEAST TWO FULL WORKING DAYS PRIOR TO INSTALLATION.

. LANDSCAPE CONTRACTOR TO REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS FROM SITE PER GOVERNING REGULATIONS.
2. CONSTRUCTION SITE IS TO BE IN A CLEAN, ORDERLY CONDITION AT ALL TIMES.
3. ALL REQUIRED PERMITS ARE THE REPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

34. LANDSCAPE CONTRACTOR SHALL PROVIDE FINE GRADING WORK FOR THE ENTIRE PROJECT. THIS WILL INCLUDE ALL AREAS TO BE GRASSED OR LANDSCAPED. GRADING MUST PROVIDE PROPER POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS AND NOT LEAVE ANY POCKETS WHERE STANDING WATER MAY COLLECT.
 34.A. TOPSOIL SHALL NOT BE SPREAD UNDER FROZEN OR MUDDY CONDITIONS.
 35. THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE OWNER'S

#### **SEEDING NOTES:**

SEEDING MIXTURE TYPE I (LAWN AREAS):
BLUEGRASS BLEND (3 VARIETIES) 50% OF MIXTURE
CHEWINGS RED FESCUE 30% OF MIXTURE
PERENNIAL RYEGRASS 20% OF MIXTURE
APPLICATION RATE: 4.50LBS. PER 1000 S.F.

2. SEEDING MIXTURE TYPE II (BASIN SLOPES) RETENTION BASIN WILDLIFE MIX - ERNMX-127

REPRESENTATIVE PRIOR TO INSTALLATION.

BY Ernst Conservation Seeds, 9006 Mercer Pike, Meadville, PA 16335 (800) 873-3321 APPLICATION RATE: 0.50 LBS PER 1,000 S.F., 20 LBS PER ACRE SEEDING MIXTURE TYPE III (WETLAND CREATION/RESTORATION AREAS)
OBLIGHTIAND MIX

BY Ernst Conservation Seeds, 9006 Mercer Pike, Meadville, PA 16335 (800) 873-3321
APPLICATION RATE: 0.50 LB9 PER 1,000 S.F., 20 LB9 PER ACRE
SEEDING MIXTURE TYPE IV (SWALE BOTTOM)
PERENNIAL RYEGRASS 10% OF MIXTURE
CREEPING RED FESCUE 10% OF MIXTURE
ALSIKE CLOVER 5% OF MIXTURE

ALSIKE CLOVER 5% OF MIXTURE
RED TOP 5% OF MIXTURE
TURF-TYPE TALL FESCUE 70% OF MIXTURE
APPLICATION RATE: 5.00 LBS PER 1,000 S.F

5. BASIN SIDE SLOPES SHALL HAVE A MINIMÚM OF 6" OF "TRACKED" TOPSOIL UNLESS OTHERWISE NOTED. 6. SEED MIXES IN AND AROUND DETENTION BASINS SHALL BE SUBSTANTIALLY ESTABLISHED PRIOR TO DISCHARGING RUNOFF FROM THE STORMWATER SYSTEM. 7. SEEDING OF BASIN SLOPES (SEEDING MIXTURE TYPE II) SHALL BE BY HYDROSEEDING AND HYDRO-MULCHING

ADD AN ADDITIONAL 15% TO SEEDING MIXTURE WHEN HYDRO-SEEDING IS USED. HYDROMULCH SHALL BE EQUAL TO CONWED 2000 AND APPLIED AT THE RATE OF 1,400LBS. PER ACRE.

8. CONTRACTOR RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SEEDED AREAS UNTIL SATISFACTORY GROWTH AS DETERMINED BY THE OWNER. REPLANT BARE AND REPAIR ERODED AREAS UNTIL END OF MAINTENANCE PERIOD.

#### WETLAND MITIGATION NOTES:

WETLAND MITIGATION GOALS

1) COMPENSATE FOR THE LOST WETLAND AREA BY PROVIDING A COMPREHENSIVE WETLAND MITIGATION PLAN THAT INCLUDES CREATING A NEW WETLAND AREA, RESTORING A PREVIOUSLY DEGRADED WETLAND AREA, AND PROVIDING A CONSERVATION AREA THAT ENCOMPASSES BOTH AREAS AND FORESTED UPLAND BUFFER AREAS WHICH WILL PROVIDE HIGHER FUNCTIONS AND VALUES THAN THAT PROVIDED BY THE TOW ISOLATED WETLANDS BEING IMPACTED.

2) LOCATE WETLAND MITIGATION AREAS ADJACENT TO EXISTING WETLANDS TO ENSURE WETLAND HYDROLOGY CAN BE DEVELOPED WITHIN MITIGATION AREAS AND PROVIDE ECOLOGICAL CONNECTIVITY TO EXISTING WETLAND SYSTEM LOCATED IN THE NORTHERN PORTION OF THE PROJECT SITE.

3) PLANT WETLAND MITIGATION AREAS WITH A SUFFICIENT DENSITY AND DIVERSITY OF NATIVE PLANTS, WITH A FOCUS OF CREATING A FORESTED WETLAND COVER TYPE TO COMPENSATE FOR IMPACTED FORESTED WETLANDS, PROVDING ENHANCED FUNCTIONS AND VALUES WITH A PARTICULAR FOCUS ON ENHANCING WILDLIFE HABITAT FUNCTION.

GENERAL MITIGATION NOTES

THE PROJECT WETLAND SCIENTIST WITH EXPERTISE IN WETLAND CREATION, RESTORATION AND ENHANCEMENT WILL SUPERVISE ALL ELEMENTS OF THE MITIGATION PLAN.

2) PLASTIC MESH SLEEVES, TREE SHELTERS AND DEER REPELLANTS WILL BE USED AS NECESSARY TO PROTECT PLANTED TREES AND SHRUBS FROM EXCESSIVE DEER DAMAGE. PLANTS WITH EXCESSIVE DAMAGE WILL BE REPLACED.

3) A PRE-CONSTRUCTION MEETING WILL BE HELD ON SITE BETWEEN THE PROJECT WETLAND SCIENTIST AND CONTRACTOR(S) PERFORMING ALL ASPECTS OF THE WETLAND MITIGATION PLAN (E.G., WETLAND CREATION, WETLAND RESTORATION, ETC.). THE PRIMARY INTENT OF THE PRE-CONSTRUCTION MEETING IS TO DISCUSS THE GOALS OF THE MITIGATION PLAN AND IMPLEMENTATION OF REQUIRED ELEMENTS NECESSARY TO ACHIEVE THESE GOALS AND SEQUENCE OF ELEMENTS. THE TOWN OF SOUTH WINDSOR SENIOR ENVIRONMENTAL PLANNER WILL BE PROVIDED NOTICE OF THIS MEETING A MINIMUM OF 3 BUSINESS DAYS PRIOR TO THE MEETING WITH AN INVITATION TO ATTEND.

4) THE TOWN OF SOUTH WINDSOR SENIOR ENVIRONMENTAL PLANNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PHASE OF THE MITIGATION PROJECT.

PROPOSED WETLAND CREATION AND RESTORATION AREAS

) THE WETLAND CREATION AND RESTORATION AREAS. COLLECTIVELY REFERRED TO AS WETLAND MITIGATION AREAS, ARE PROPOSED IN CLOSE PROXIMITY TO EXISTING WETLANDS TO THE NORTH AND WEST, WITHIN THE NORTHERN PORTION OF THE PROJECT SITE THAT IS CURRENTLY DOMINATED BY MODERATELY WELL DRAINED SANDY GLACIOFLUVIAL (OUTWASH) SOILS. THE WETLAND CREATION AND RESTORATION AREAS WILL INCLUDE FORESTED, SCRUB-SHRUB, AND EMERGENT COVER TYPES TO PROMOTE A DIVERSE VARIETY OF WETLAND HABITATS THAT WILL SUPPORT SEVERAL WETLAND FUNCTIONS AND VALUES AT PRINCIPAL OR SECONDARY LEVELS. CONSTRUCTION OF THE WETLAND CREATION AND RESTORATION AREAS HAS BEEN DESIGNED TO MINIMIZE EROSION, PREVENT SEDIMENT FROM ENTERING ADJACENT WETLANDS, AND TO MAXIMIZE THE ESTABLISHMENT OF PLANTED NATIVE VEGETATION. THIS OVERALL MITIGAITON AREA WILL PROVIDE SIGNIFICANTLY HIGHER WETLAND FUNCTIONS AND VALUES THAN THE TWO ISOLATED WETLANDS PROPOSED TO BE IMPACTED. THIS WETLAND MITIGAITON PLAN HAS BEEN DEVELOPED UTILIZING CERTAIN ASPECTS CONTAINED WITHIN THE U.S. ARMY CORPS OF ENGINEERS NEW ENGLAND DISTRICT COMPENSATORY MITIGATION STANDARD OPERATING PROCEDURES (DECEMBER 29, 2020) AS GUIDANCE. THE WETLAND CREATION AND RESTORATION AREAS WILL BE CONSTRUCTED PER THE FOLLOWING:

2) PRIOR TO ANY EARTHWORK, A SILT FENCE AND/OR COMPOST FILTER SOCK EROSION CONTROL BARRIER WILL BE INSTALLED BETWEEN THE EXISTING WETLAND AND PROPOSED WETLAND CREATION AREA.

3) THE PROJECT WETLAND SCIENTIST SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF SEVEN (7) BUSINESS DAYS PRIOR TO ANY PHASE OF THE MITIGATION PROJECT INCLUDING EXCAVATION AND GRADING, SOIL TRANSFER AND PLANTING, TO MONITOR AND OR SEE IMPLEMENTATION OF THE WETLAND CREATION PLAN.

4) THE TOWN OF SOUTH WINDSOR SENIOR ENVIRONMENTAL PLANNER SHALL BE NOTIFIED A MINIMUM OF48 HOURS PRIOR TO THE INSTALLATION OF EROSION CONTROLS AND AGAIN BEFORE THE COMMENCEMENT OF EXCAVATION WORK.

5) MATURE TREES IMMEDIATELY ADJACENT TO THE WETLAND CREATION AREA, WHICH ARE AT OR NEAR THE FINAL DESIGN ELEVATIONS OF THE AREA, WILL BE IDENTIFIED AND PRESERVED (WHERE POSSIBLE). IN ADDITION, SELECT MATURE MAST TREES WITHIN THE INTERIOR OF THE WETLAND CREATION AREA WILL BE IDENTIFIED AND PRESERVED TO RETAIN SOME EXISTING OVERSTORY FOREST COVER.

SELECTED FOR REUSE IN THE WETLAND CREATION AND RESTORATION AREAS AS RED MAPLES ARE ADEPT AT RESPROUTING. SELECTED RED MAPLE TREES WILL BE CUT WITH A 4-6 FOOT STUMP RETAINED AND EXCAVATED TO INCLUDE SOME OF THE ROOT BALL. RED MAPLE STUMPS WILL BE "PLANTED" WITHIN THE WETLAND CREATION AND RESTORATION AREAS.

6) LARGER DRH RED MAPLE TREES WITHIN THE TWO IMPACTED ISOLATED WETLANDS WILL BE

7) WETLAND TOPSOIL FROM THE TWO IMPACTED ISOLATED WETLANDS WILL BE REMOVED, SEGREGATED, AND STOCKPILED IN THE WETLAND MITIATION STAGING AREA FOR USE IN THE WETLAND CREATION AREA. STOCKPILED WETLAND TOPSOIL SHALL NOT BE SCREENED SO IT RETAINS ROOT MATTER AND SEED STOCK OF NATIVE WETLAND PLANT SPECIES THAT WILL AID IN NATURALLY ATTENUATING THE WETLAND CREATION AREA WITH NATIVE VEGETATION.

8) AS THE WETLAND CREATION AREA CONSISTS OF NATIVE MODERATEY WELL DRAINED SANDY GLACIOFLUVIAL SOILS WITH A SEASONAL HIGH GROUNDWAER TABLE, EXCAVATION WILL CONSIST OF FIRST REMOVAL AND SEGRETATION OF TOPSOIL. THE EXCAVATED TOPSOIL SHALL BE RETAINED FOR REUSE IN THE WETLAND CREATION AREA FOLLOWING ORGANIC MATTER AMENDMENTS, AS NECESSARY, TO REPLICATE WETLAND TOPSOIL. APPROXIMATELY 1 TO 2 FEET OF SANDY SUBSOIL WILL BE REMOVED IN ORDER TO INTERCEPT THE LOCAL SEASONAL HIGH GROUNDWATER TABLE AND CREATE VARING LEVELS OF WETLAND HYDROLOGY: SEASONAL SOIL SATURATION WITHIN 12 INCHES OF THE FINAL WETLAND SOIL SURFACE GRADE. MODIFICATIONS TO THIS GRADING PLAN MAY BE MADE IN THE FIELD AT THE DIRECTION OF THE PROJECT WETLAND SCIENTIST IN RESPONSE TO ACTUAL SUBSURFACE SOIL AND HYDROLOGIC CONDITIONS. THE PROJECT WETLAND SCIENTIST WILL INSPECT THE SUB-GRADE OF THE WETLAND CREATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED PRIOR TO THE PLACEMENT OF WETLAND TOPSOIL.

9) AS THE WETLAND RESTORATION AREA CONSISTS OF FILL MATERIAL OVERLYING ORIGINAL WETLAND SOILS, EXCAVATION WILL CONSIST OF REMOVAL OF FILL MATERIAL UNTIL THE UNDERLYING NATIVE WETLAND SOIL IS EXPOSED. MINOR MODIFICATIONS TO THIS GRADING PLAN MAY BE MADE IN THE FIELD BY THE PROJECT WETLAND SCIENTIST IN RESPONSE TO ACTUAL SUBSURFACE SOIL AND HYDROLOGIC CONDITIONS. THE PROJECT WETLAND SCIENTIST WILL INSPECT THE SUB-GRADE OF THE WETLAND CREATION AREA TO ENSURE THAT THE PROPER HYDROLOGY HAS BEEN ESTABLISHED.

10) THE WETLAND SOIL WITHIN THE WETLAND CREATION AREA SHALL BE A MINIMUM OF TWELVE INCHES DEEP. WETLAND TOPSOIL WILL BE ADDED AS NEEDED TO MEET THESE CONDITIONS. ADDED WETLAND SOILS SHALL CONSIST OF PREPARED WEED-FREE TOPSOIL MADE UP OF A 1: 1 MIXTURE (OR EQUAL VOLUMES) OF ORGANIC AND MINERAL MATERIALS THAT CONTAINS AT LEAST 12 PERCENT ORGANIC CARBON CONTENT BY WEIGHT. CLEAN COMPOSTED LEAF MOLD OR COMMERCIALLY AVAILABLE COMPOST FREE OF WEEDS OR INVASIVE SPECIES IS THE PREFERRED AMENDMENT TO ACHIEVE THIS STANDARD, THOUGH OTHER MATERIALS MAY BE USED IF APPROVED BY THE PROJECT WETLAND SCIENTIST.

11) THESE SOILS WILL THEN BE GRADED TO ACHIEVE A SLIGHT HUMMOCK/HOLLOW MICROTOPOGRAPHY, SIMILAR TO THAT OF A NATURAL WETLAND SUBSTRATE. THE CONTRACTOR SHALL ENSURE THAT PROPER SOIL COMPACTION LEVELS (LOOSE TO FRIABLE) ARE MAINTAINED. IF CORRECTION MEASURES ARE NECESSARY, THE CONTRACTOR SHALL SUBMIT METHOD(S) TO BE EMPLOYED TO THE PROJECT WETLAND SCIENTIST FOR APPROVAL.

12) THE DISTURBED UPLAND SLOPE ADJACENT TO THE MITIGATION AREAS WILL BE ROUGH GRADED TO REMOVE UNWANTED LARGE DEBRIS. SIX INCHES OF TOPSOIL WILL BE PLACED ON THE SLOPE AND SEEDED WITH A NEW ENGLAND CONSERVATION/WILDLIFE MIX (NEW ENGLAND WETLAND PLANTS, INC. [413.548.8000] OR EQUIVALENT). APPROPRIATE EROSION CONTROLS MEASURES (I.E., EROSION CONTROL BLANKET, HYDROSEEDING WITH BONDED FIBER MATRIX, STRAW MULCH, ETC.) WILL BE UTILIZED TO STABILIZE THE SLOPE UNTIL VEGETATION IS ESTABLISHED.

13) WETLAND CREATION AND RESTORATION AREAS PLANTINGS SHALL TAKE PLACE ONCE THE ABOVE LISTED TASKS HAVE BEEN COMPLETED. THE WETLAND CREATION AND RESTORATION AREAS WILL BE PLANTED WITH NATIVE TREES AND SHRUBS AS NOTED IN THE PLANTING SCHEDULE AND UNDER SOWN WITH A NATIVE NEW ENGLAND WETLAND SEED MIX (NEW ENGLAND WETLAND PLANTS, INC. [413.548.8000] OR APPROVED EQUIVALENT) AFTER THE GRADING IS COMPLETED.

14) THE PROJECT WETLAND SCIENTIST SHALL INSPECT THE PLANTING STOCK SPECIMENS FOR HEALTH, PEST, AND SUITABLE FOR USE WITHIN THE REPLICATION AREA. UNSUITABLE SPECIMENS WILL BE REJECTED AND REPLACED WITH SUITABLE SPECIMENS. ANY PLANTING SUBSTITUTIONS MUST BE APPROVED BY THE PROJECT WETLAND SCIENTIST. ALL WOODY PLANT STOCK SHALL BE CONTAINER-GROWN OR BURLAP BALLED. PLANTING WITHIN THE WETLAND MITIGATION AREAS WILL CONFORM TO THE PLANS OR WILL BE COMPLETED IN ACCORDANCE WITH DIRECTIONS PROVIDED IN THE FIELD BY THE PROJECT WETLAND SCIENTIST. ONLY PLANT MATERIALS NATIVE AND INDIGENOUS TO CONNECTICUT SHALL BE USED. INVASIVE PLANT SPECIES WILL NOT BE USED IN THE MITIGATION AREA.

15) ALL PLANT MATERIALS INSTALLED SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE "AMERICAN STANDARDS FOR NURSERY STOCK SECTION 10: SEEDLING TREES AND SHRUBS" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.

16) NO CULTIVARS OF NATIVE PLANTS IDENTIFIED IN THE PLANTING SCHEDULE SHALL BE USED UNLESS APPROVED BY THE PROJECT WETLAND SCIENTIST.

17) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAREFUL INSTALLATION, MAINTENANCE (INCLUDING WATERING), AND ESTABLISHMENT OF THE PLANT MATERIAL IN THE MITIGATION AREAS. A MAINTENANCE SCHEDULE FOR IRRIGATION AND PRUNING (AS NECESSARY) WILL BE ESTABLISHED BY THE CONTRACTOR. ALL PLANTS SHALL BE GUARANTEED BY THE CONTRACTOR TO REMAIN ALIVE AND HEALTHY FOR THE FULL TWELVE (12) MONTH PERIOD FOLLOWING THE DATE OF PLANTING.

18) ALL PLANTINGS TO BE SPACED GENERALLY AS NOTED ON THE PLANTING SCHEDULE WITH ASSISTANCE FROM THE PROJECT WETLAND SCIENTIST TO SIMULATE NATURAL GROWTH

19) ROCKS AND BOULDERS UNCOVERED DURING EXCAVATION OF THE WETLAND RESTORATION AREAS MAY BE LEFT IN PLACE PROVIDED THAT THEY DO NOT SIGNIFICANTLY DECREASE THE PLANTABLE AREA OF THE MITIGATION AREAS. ROCKS AND BOULDERS WILL BE PLACED IN SUCH A WAY AS TO PROVIDE CREVICES AND CAVITIES SUITABLE FOR USE BY WILDLIFE. NO MORE THAN 5 PERCENT OF THE MITIGATION AREAS WILL BE TREATED IN THIS MANNER.

20) FALLEN LOGS, BRANCHES, STUMPS AND OTHER NATURAL DEBRIS WITHIN THE WETLAND MITIGAITON AREAS, EXCLUDING INVASIVE PLANTS, WILL BE REUSED TO PROVIDE BENEFICIAL HABITAT FEATURES FOR WILDLIFE. THIS WILL INCLUDE DOWNED AND UNCOVERED MATERIAL THAT IS ACQUIRED DURING THE PROJECT'S CLEARING ACTIVITIES AND WILL BE DISTRIBUTED TO COVER NO MORE THAN 5 PERCENT OF THE MITIGAITON AREA'S SURFACE. THE NATURAL DEBRIS CAN BE OF VARYING SIZES AND IN VARYING DEGREES OF DECOMPOSITION.

21) THE EROSION CONTROL BARRIERS WILL BE DISASSEMBLED AND PROPERLY DISPOSED OF ONCE THE MITIGAITON AREAS ARE PERMANENTLY STABLIZED BY NATIVE VEGETATION. ANY SEDIMENT COLLECTED BY THESE DEVICES WILL BE REMOVED AND DISPOSED OF IN A MANNER THAT PREVENTS EROSION AND TRANSPORT INTO WETLANDS. MINOR GRADING BY HAND MAY BE PERFORMED IN THIS ZONE TO PROVIDE SURFACE HYDROLOGIC CONNECTION BETWEEN THE MITIGATION AREAS; AREAS WILL BE STABILIZED WITH MULCH AS NECESSARY.

#### INVASIVE SPECIES CONTROL PLAN

1) THE SETTING FOR THE PROPOSED WETLAND MITIGATION AREAS CONSISTS PRIMARILY OF A MATURE FOREST WITH NATIVE TREES, SHRUBS AND FORBS THAT CONTAINS MINIMAL INVASIVE PLANT SPECIES. AS SUCH, CERTAIN PRECAUTIONS ARE RECOMMENDED DURING CONSTRUCTION IN ORDER TO AVOID/MINIMIZE THE IMPORTATION OF INVASIVE PLANT SEEDS/MATERIAL THAT COULD COLONIZE THE WETLAND CREATION AREAS AND DIMINISH ITS WILDLIFE HABITAT VALUE. PROPOSED SOIL DISTURBANCES DURING CONSTRUCTION PROVIDE AN OPPORTUNITY FOR INVASIVE PLANTS TO GAIN A FOOTHOLD AND SPREAD INTO THE SURROUNDING HABITATS. THIS CAN OCCUR THROUGH THE IMPORTATION OF SOIL THAT CONTAINS INVASIVE PLANT SEED STOCK OR CARRIED BY CONSTRUCTION EQUIPMENT THAT HAS PICKED UP SOIL WITH INVASIVE SEED STOCK. THE INVASIVE SPECIES PLAN INCLUDES THE FOIL OWING FI EMENTS:

2) THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING TO REVIEW THE REQUIREMENTS OF THE INVASIVE SPECIES CONTROL PLAN PRIOR TO MOBILIZATION OF EQUIPMENT, VEHICLES, MATERIALS, ETC. ONTO THE PROJECT SITE.

PRIOR TO ENTRY ONTO THE PROJECT SITE, ALL EQUIPMENT AND VEHICLES SHALL BE PRESSURE WASHED BY THE CONTRACTOR AT ITS STORAGE YARD IN ORDER TO REMOVE ANY LOOSE SOIL THAT MAY BE CARRYING INVASIVE PLANT SEEDS.

4) IMPORTATION OF TOPSOIL ONTO THE PROJECT SITE FOR USE IN THE WETLAND MITIGATION AREAS SHOULD BE AVOIDED. TO THE EXTENT PRACTICABLE, WETLAND TOPSOIL FROM THE TWO IMPACTED ISOLATED WETLANDS AND TOPSOIL FROM THE WETLAND CREATION AREA SHALL BE RETAINED FOR REUSE IN THE WETLAND MITIGATION AREAS, AMENDED AS NECESSARY TO ATTAIN THE WETLAND TOPSOIL SPECIFICATIONS IN THE PRECEDING SECTION.

5) TEMPORARILY STOCKPILED TOPSOIL SHALL BE IMMEDIATELY SEEDED WITH EITHER ANNUAL RYE OR WINTER RYE IF IT WILL NOT BE USED WITHIN ONE (1) WEEK.

6) ANY CLEAN FILL MATERIAL IMPORTED ONTO THE PROPERTY SHALL BE FREE OF WEED

7) USE OF HAYBALES IS PROHIBITED ON THIS PROJECT. NATURAL EROSION CONTROL MATERIALS SHALL BE EITHER STRAW BALES OR STRAW- OR COMPOST-FILLED

8) ALL RESTORED AREAS WILL BE INSPECTED DURING THE GROWING SEASON FOR FIVE (5) YEARS FOLLOWING ESTABLISHMENT OF PERMANENT VEGETATION TO MONITOR FOR POSSIBLE COLONIZATION BY INVASIVE PLANTS SPECIES; REFER TO POST-CONSTRUCTION MITIGATION MONITORING SECTION. INVASIVE PLANTS ARE THOSE LISTED AS NON-NATIVE INVASIVE WOODY PLANTS BY THE CONNECTICUT INVASIVE PLANT WORKING GROUP.

9) IF INVASIVE WOODY PLANTS ARE IDENTIFIED TO HAVE MORE THAN 20% AERIAL COVERAGE IN THE RESTORED AREAS, A CONTROL PLAN FOR REMOVAL OF THE INVASIVE WOODY PLANTS

#### FERTILIZER AND PESTICIDE USE NOTES

1) THE USE OF FERTILIZER AND PESTICIDES IN THE WETLAND MITIGATION AREAS ARE PROHIBITED. HERBICIDE USAGE WILL ONLY OCCUR AS NECESSARY FOR THE CONTROL OF INVASIVE SPECIES WITHIN THE MITIGATION AREAS.

PERMIT AND POSTING REQUIREMENTS SHALL BE FOLLOWED.

3) ALL HERBICIDE APPLICATIONS SHALL BE PERFORMED BY A STATE LICENSED INDIVIDUAL

2) ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING HERBICIDE USE, APPLICATOR

UNDER THE SUPERVISION OF THE PROJECT WETLAND SCIENTIST.

4) CERTIFICATIONS, LICENSES AND PERMITS SHALL BE PRODUCED BY THE LICENSED

5) ALL HERBICIDES SHALL BE MIXED WITH A DYE APPROVED BY U.S. EPA FOR USE AS A HERBICIDE ADJUVANTS, SUCH AS TURFMARK@DYE OR EQUIVALENT.

#### 6) ONLY NONIONIC SURFACTANTS SHALL BE ADDED TO THE SPECIFIED HERBICIDES.

#### POST-CONSTRUCTION MITIGATION MONITORING

APPLICATOR PRIOR TO THE START OF WORK

LONG-TERM MONITORING OF THE WETLAND MITIGATION AREAS WILL BE CONDUCTED AS FOLLOWS. THE MITIGATION AREAS WILL BE MONITORED THE FIRST FOUR GROWING SEASONS FOLLOWING THEIR CONSTRUCTION. THE FIRST YEAR OF MONITORING WILL BE THE FIRST YEAR THAT THE SITE HAS BEEN THROUGH A FULL GROWING SEASON AFTER COMPLETION OF ALL WETLAND MITIGATION CONSTRUCTION AND PLANTING ACTIVITIES. FOR MONITORING PURPOSES, A GROWING SEASON STARTS NO LATER THAN MAY 31 AND ENDS NO EARLIER THAN NOVEMBER 15.

2) MONITORING REPORTS WILL BE SUBMITTED TO THE TOWN OF SOUTH WINDSOR SENIOR ENVIRONMENTAL PLANNER NO LATER THAN JANUARY 31 OF EACH YEAR FOLLOWING THE PREVIOUS YEAR OF MONITORING. THE REPORTS WILL PROVIDE DETAILS ON THE FIVE SUCCESS STANDARDS DESCRIBED BELOW WITH THE GOAL BEING THAT ALL SUCCESS STANDARDS ARE SATISFIED BY YEAR 5. PERMANENT PHOTO STATIONS SHALL BE ESTABLISHED AT REPRESENTATIVE LOCATIONS WITH PHOTOGRAPHS FROM EACH STATION INCLUDED IN EACH ANNUAL REPORT TO TRACK PROGRESS. MONITORING REPORTS SHALL INCLUDE THE PERCENT SURVIVAL OF PLANTED TREES AND SHRUBS AS WELL AS THE EXTENT OF HERBIVORY. REPORTS WILL ALSO INCLUDE OBSERVATIONS OF VEGETATION DEVELOPMENT AND ANY WILDLIFE USAGE. REMEDIAL ACTIONS RECOMMENDED AND/OR COMPLETED DURING THE MONITORING YEAR WILL ALSO BE PROVIDED IN THE REPORT.

3) PLANTS DETERMINED TO BE DEAD OR UNHEALTHY SHALL BE REPLACED IN KIND, AS NECESSARY, TO ACHIEVE THE SUCCESS STANDARDS NOTED BELOW. IF THERE ARE PROBLEMS THAT NEED TO BE ADDRESSED AND IF THE MEASURES TO CORRECT THEM REQUIRE PRIOR APPROVAL FROM THE TOWN OF SOUTH WINDSOR INLAND WETLANDS AGENCY, THE PERMITTEE WILL CONTACT THE AGENCY AS SOON AS THE NEED FOR CORRECTIVE ACTION IS DISCOVERED. IF FOLLOWING YEAR 5 OF THE MONITORING PROGRAM NOT ALL OF THE SUCCESS STANDARDS ARE SATISFIED, AN ADDITIONAL YEAR OF MONITORING SHALL BE REQUIRED UNTIL ALL SUCCESS STANDARDS ARE ACHIEVED.

4) THE MITIGATION AREAS WILL BE ASSESSED USING FOUR SUCCESS STANDARDS AS FOLLOWS. SUCCESS STANDARD 1: AT LEAST 80% OF THE SURFACE AREA, INCLUDING COLLECTIVELY THE HERBACEOUS, SHRUB, AND FOREST STRATUMS OF THE MITIGATION AREAS, SHOULD BE ESTABLISHED WITH INDIGENOUS NATIVE SPECIES WITHIN THREE GROWING SEASONS. SUCCESS STANDARD 2: VEGETATION SHOULD BE CHECKED TO ENSURE THAT NO MORE THAN 20% OF THE SURFACE AREA IS OCCUPIED BY NON-NATIVE INVASIVE SPECIES. SUCCESS STANDARD 3: SLOPES WITHIN AND ADJACENT TO THE PROPOSED WETLAND CREATION AREAS ARE STABILIZED WITH VEGETATION AND NO EROSION OF SLOPES IS OBSERVED. SUCCESS STANDARD 4: WETLAND CREATION AREAS SUSTAIN SUFFICIENT WETLAND HYDROLOGY TO SUPPORT 50% OR GREATER AERIAL DOMINANCE OF NATIVE WETLAND VEGETATION (WETLAND VEGETATION IS DEFINED AS NATIONAL WETLAND PLANT INDICATOR RATINGS OF FAC OR WETTER).

#### **STREET TREE NOTES:**

ALL TREES SHALL BE HANDLED BY THE ROOT BALL AND NOT BY THE TRUNK OF THE TREE.
 ALL ROPE OR TWINE SHALL BE COMPLETELY REMOVED ONCE THE TREE HAS BEEN PLACED IN THE PLANTING AREA, BURLAP SHALL BE ROLLED DOWN AND CUT OR TUCKED UNDER THE ROOT BALL.
 ANY WIRE BASKETS SHALL BE CUT AND THE UPPER 2/3 REMOVED AFTER THE TREE IS PLACED IN THE PLANTING AREA.
 ALL TREES SHALL BE FRESHLY DUG WITHIN 30 DAYS OF DELIVERY

TO THE PLANTING SITE.

5. ALL TWINE, ROPE OR ANY OTHER OBJECTS AROUND THE ROOT BALL SHALL BE REMOVED.

6. A PLANTING AREA OF TWO TIMES THE DIAMETER OF THE ROOT BALL SHALL BE EXCAVATED. THE DEPTH OF THE EXCAVATION SHALL BE TWO INCHES LESS THAN THE OVERALL HEIGHT OF THE ROOT BALL AS

ALL EXCAVATED MATERIAL SHALL BE DEPOSITED AT AN APPROVED SITE.

WHEN BACK FILLING TREES, GROWING MEDIUM SHALL BE WORKED IN TO AVOID ANY AIR POCKETS. CARE MUST BE TAKEN NOT TO COMPACT GROWING MEDIUM EXCESSIVELY.

THE BEGINNING OF THE ROOT FLAIR SHALL BE SET TWO INCHES

MEASURED FROM THE ROOT FLAIR ON THE TRUNK TO THE BOTTOM

ABOVE FINAL GRADE.

MATER SHALL BE APPLIED AS SOIL CONDITIONS DICTATE.

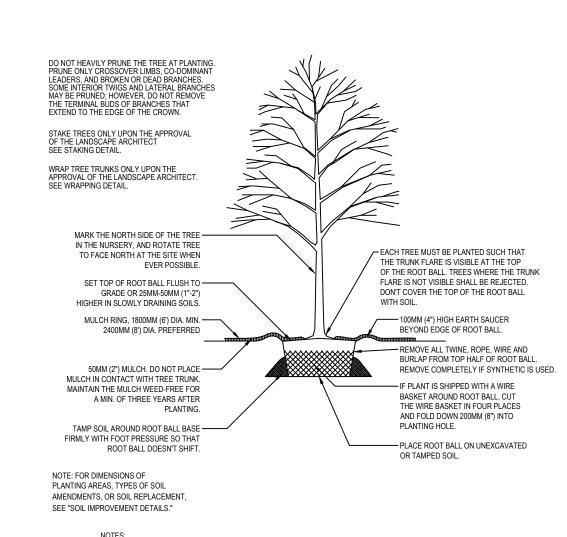
ALL TREE TRUNKS SHALL BE FREE FROM ANY INJURY OR DAMAGE.

ALL TREES SHALL HAVE A SINGLE CENTRAL DOMINANT LEADER.

TREES SHALL NOT BE STAKED OR GUYED UNLESS DICTATED BY THE TREE WARDEN.

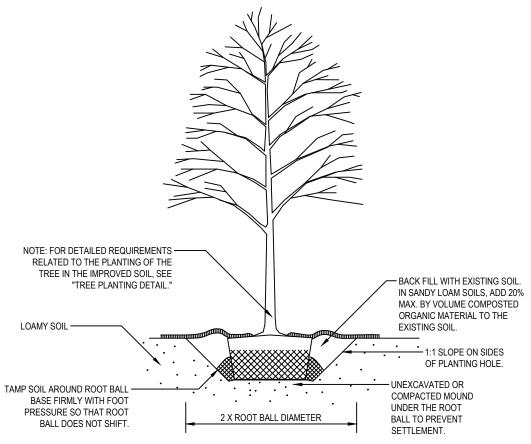
THE DEPTH OF ALL MULCH SHALL NOT EXCEED MORE THAN TWO

ALL TAGS, RIBBONS, OR OTHER MARKINGS SHALL BE REMOVED.
 NO PRUNING SHALL BE PERFORMED UNLESS DIRECTED BY THE TREE WARDEN.
 NO FERTILIZERS OR WATER POLYMERS SHALL BE APPLIED AT



NO MULCH WITHIN 3" OF TREE TRUNK
 THIS DETAIL ASSUMES THAT THE PLANTING SPACE IS LARGER THAN 2400 MM (8 FT.) SQUARE, OPEN TO THE SKY, AND NOT COVERED BY ANY PAVING OR GRATING.

1 TREE PLANTING DETAIL



Not to Scale

Not to Scale

LOAMY SOILS INCLUDE THE FOLLOWING USDA TEXTURAL CLASSIFICATIONS AND HAVE A CLAY CONTENT OF BETWEEN 15 TO 27%: LOAM, SANDY LOAM AND SILT LOAM. NOTE THAT SOILS AT THE OUTER LIMITS OF THE LOAM CLASSIFICATIONS MAY PRESENT SPECIAL PLANTING PLANTING PROBLEMS NOT ANTICIPATED BY THIS DETAIL.

LOAMY SOILS ARE DEFINED AS GRANULAR OR BLOCKY FRIABLE SOILS, A MIXTURE OF SAND, SILT AND CLAY PARTICLES WITH A MINIMUM OF 1.5% BY DRY WEIGHT ORGANIC MATTER. THE SOIL MUST NOT BE SO COMPACTED AS TO IMPEDE ROOT GROWTH OR DRAINAGE. THE SOIL STRUCTURE SHALL NOT BE PLATY OR MASSIVE. THE SOIL MUST BE TESTED FOR TEXTURE, DRAINAGE CAPABILITY, PH, AND NUTRIENT VALUES PRIOR TO DETERMINING PLANT SELECTIONS AND ANY ADDITIONAL SOIL IMPROVEMENTS.

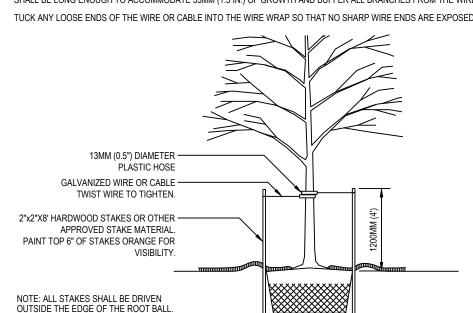
FOR TREES PLANTED IN NON-RESTRICTED SOIL CONDITIONS.
THIS DETAIL ASSUMES THAT THE AREA OF LOAMY SOIL AVAILABLE TO EACH TREE IS A MINIMUM OF 45 SQ. M (500 SQ. FT)

### SOIL IMPROVEMENT DETAIL

WIRE OR CABLE SIZES SHALL BE AS FOLLOWS: TREES UP TO 65 MM (2.5 IN.) CALIPER - 14 GAUGE

TREES 65 MM (2.5 IN.) TO 75 MM (3 IN.) CALIPER - 12 GAUGE

TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 35MM (1.5 IN.) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.



ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 12 MM (0.5 In.).

IS A MINIMUM OF 12 MM (0.5 IN.).

REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.

TREES NORMALLY DO NOT NEED TO BE STAKED AND STAKING CAN BE HARMFUL TO THE TREE. STAKING SHOULD BE DONE ONLY WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT IF IT IS EXPECTED THAT THE TREE WILL NOT BE ABLE TO SUPPORT ITSELF.

THE FOLLOWING ARE REASONS WHY TREES DO NOT REMAIN STRAIGHT.

TREES WITH POOR QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.

TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.

PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.

ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.

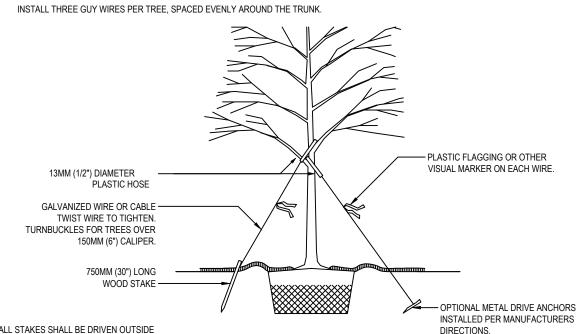
TREE STAKING DETAIL (3" CAL. OR SMALLER

TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE

WIRE OR CABLE SIZES SHALL BE AS FOLLOWS: TREES UP TO 65 MM (2.5 IN.) CALIPER - 14 GAUGE TREES 65 MM (2.5 IN.) TO 75 MM (3 IN.) CALIPER - 12 GAUGE

TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. PLASTIC HOSE SHALL BE LONG ENOUGH TO ACCOMMODATE 35MM (1.5 IN.) OF GROWTH AND BUFFER ALL BRANCHES FROM THE WIRE.

TUCK ANY LOOSE ENDS OF THE WIRE OR CABLE INTO THE WIRE WRAP SO THAT NO SHARP WIRE ENDS ARE EXPOSED.



ASSURE THAT THE BEARING SURFACE OF THE PROTECTIVE COVERING OF THE WIRE OR CABLE AGAINST THE TREE TRUNK IS A MINIMUM OF 12 MM (0.5 IN.).

REMOVE ALL STAKING AS SOON AS THE TREE HAS GROWN SUFFICIENT ROOTS TO OVERCOME THE PROBLEM THAT REQUIRED THE TREE TO BE STAKED. STAKES SHALL BE REMOVED NO LATER THE END OF THE FIRST GROWING SEASON AFTER PLANTING.

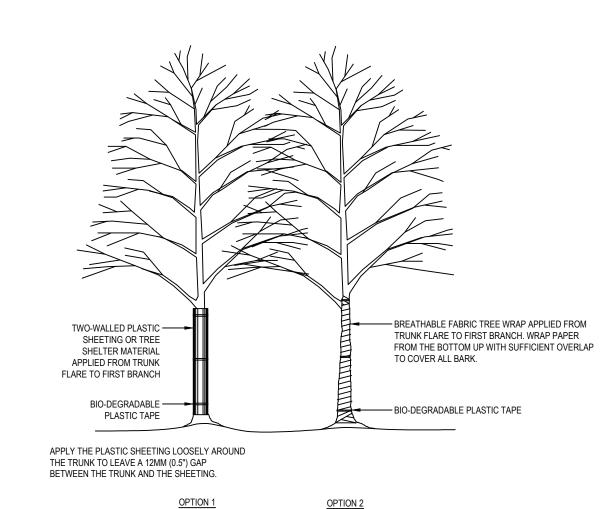
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o TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.

o TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.

TREES WITH POOR-QUALITY ROOT BALLS OR ROOT BALLS THAT HAVE BEEN CRACKED OR DAMAGED. REJECT RATHER THAN STAKE.
TREES THAT HAVE GROWN TOO CLOSE TOGETHER IN THE NURSERY, RESULTING IN WEAK TRUNKS. REJECT RATHER THAN STAKE.
PLANTING PROCEDURES THAT DO NOT ADEQUATELY TAMP SOILS AROUND THE ROOT BALL. CORRECT THE PLANTING PROCEDURE.
ROOT BALLS PLACED ON SOFT SOIL. TAMP SOILS UNDER ROOT BALL PRIOR TO PLANTING.
ROOT BALLS WITH VERY SANDY SOIL OR VERY WET CLAY SOIL. STAKING ADVISABLE.
TREES LOCATED IN A PLACE OF EXTREMELY WINDY CONDITIONS. STAKING ADVISABLE.

TREE STAKING DETAIL (LARGER THAN 3" CAL.)

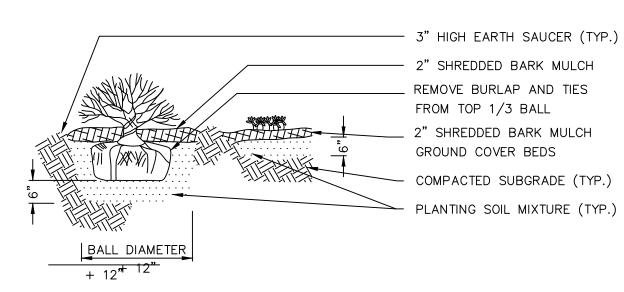


TREE WRAP SHOULD BE INSTALLED AT TIME OF PLANTING AND BE REMOVED WHEN DIRECTED BY THE LANDSCAPE ARCHITECT, BUT NO LATER THAN 12 MONTHS AFTER PLANTING.

TREES WHOSE NORTH ORIENTATION IS NOT CHANGED FROM THE NURSERY DO NOT NEED TO BE WRAPPED EXCEPT TREES WITH VERY THIN BARK, SUCH AS RED MAPLE, SHOULD BE WRAPPED IF APPROVED BY THE LANDSCAPE ARCHITECT.

TREE WRAPPING DETAIL

Not to Scale



6 SHRUB & GROUNDCOVER PLANTING DETAIL

PROPERTY OWNER:
FOUR WOODS LLC
C/O JOHN J WOODCOCK III

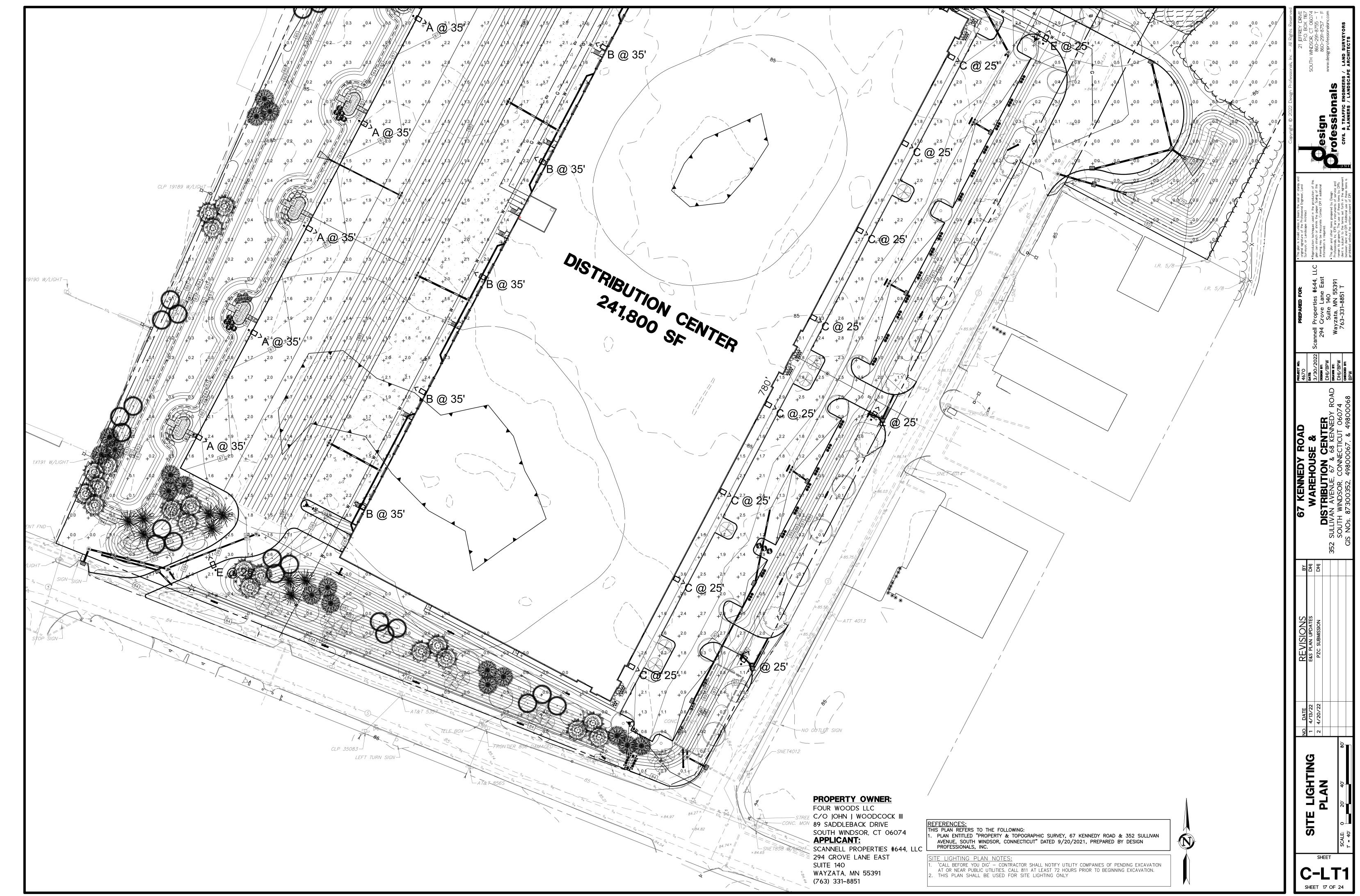
(763) 331–8851

89 SADDLEBACK DRIVE
SOUTH WINDSOR, CT 06074
APPLICANT:
SCANNELL PROPERTIES #644, LLC
294 GROVE LANE EAST
SUITE 140
WAYZATA, MN 55391

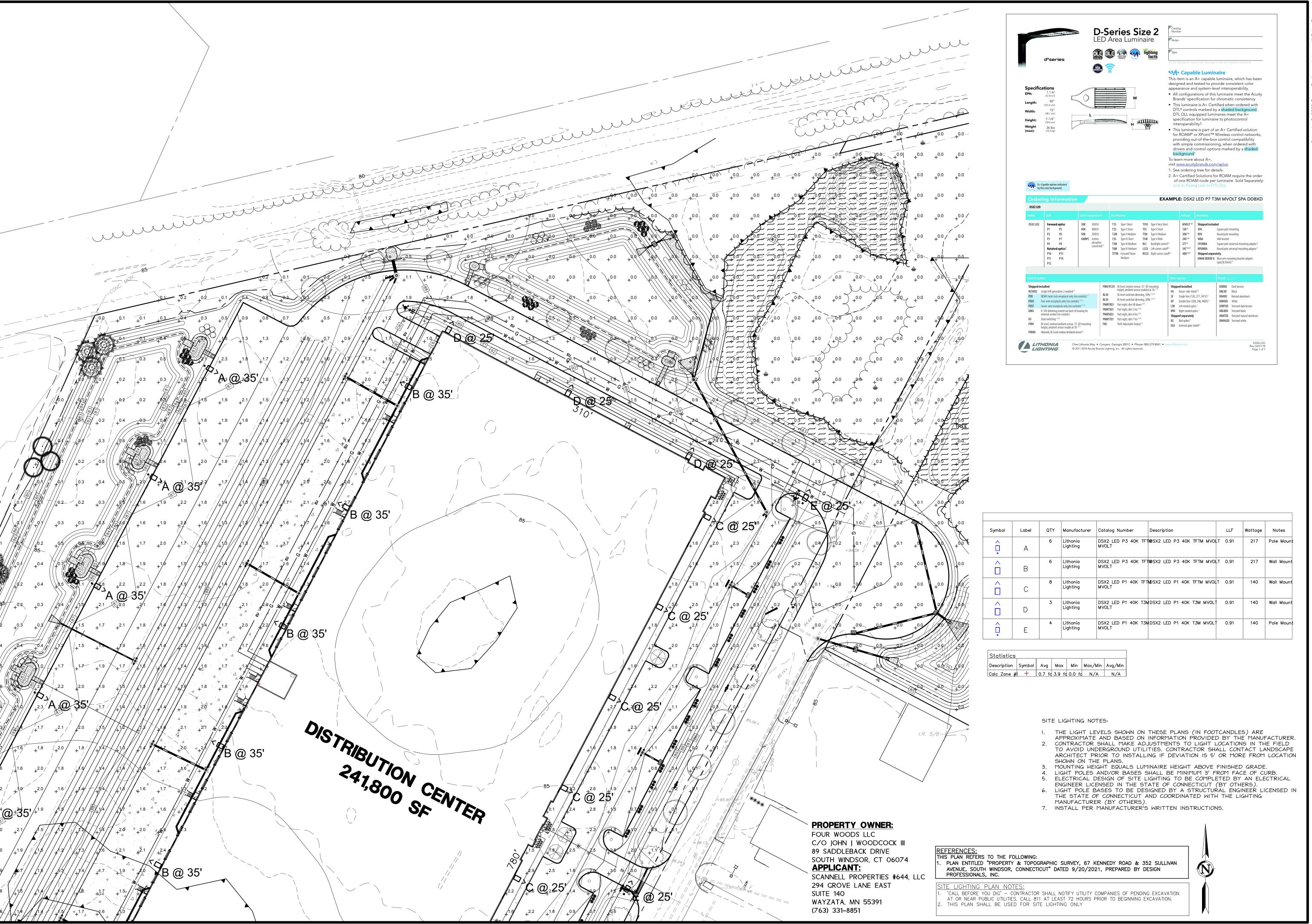
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LANDSCAPI ETAILS & NO

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SHEET 16 OF 24



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- 2. It is the contractor's responsibility to review all construction contract documents associated with the project scope of work, including, but not limited to, all drawings and specifications, architectural plans, boundary and topographic survey, wetlands assessment and reports, geotechnical reports, environmental reports, and approval conditions, prior to the commencement of construction. Should the contractor find conflict and/or discrepancy between the documents relative to the plans, specifications, reports, or the relative or applicable codes, regulations, laws, rules, statutes and/or ordinances, it is the contractor's sole responsibility to notify the Engineer, in writing, of said conflict and/or discrepancy prior to the start of construction.
- 3. The contractor shall be responsible for adhering to any conditions of approval placed on the project by the authorities having jurisdiction.
- 4. The contractor must comply, to the fullest extent, with the latest Occupational Health and Safety (OSHA) standards and regulations, and/or any other agency with jurisdiction for construction activities. The contractor is solely responsible for construction means, methods, techniques, sequences, or procedures, or for safety precautions and programs in connection with work on the Project. The Engineer will not be responsible for the contractor's safety, schedules, or failure to carry out its work in accordance with the contract documents. The Engineer will not have control over or charge of acts or omissions of the contractor, subcontractors, or their agents or employees, or of any persons performing portions of work on the
- 5. Contractor must notify the Engineer in writing if there are any questions concerning the accuracy or intent of these plans or related specifications. If such notification is given, no demolition or site activity may begin until such time that the Engineer provides a written response to same.
- 6. Contractor shall adhere to and is responsible for compliance with all details, notes, plans and specifications contained herein. It is the responsibility of the contractor to ensure that all work performed by their subcontractors is in full compliance with these requirements.
- 7. The contractor shall confirm that they are in receipt of the current version of the referenced documents prior to the commencement of any work.
- 8. Prior to commencing work, the contractor shall review and correlate all consultants plans and specifications including the entire site plan and the latest architectural plans (including, but not limited to, structural, mechanical, electrical, plumbing, and fire suppression plans, where applicable), in particular for building utility connection locations, grease trap requirements/ details, door access, and exterior grading. Contractor must immediately notify the Architect and the Engineer, in writing, of any conflicts, discrepancies or ambiguities which exist, and receive a written resolution prior to commencing construction.
- 9. Prior to commencing work, contractor is required to secure all necessary and/or required permits and approvals for the construction of the project, including, but not limited to, demolition work, and all off site material sources and disposal facilities. Copies of all permits and approvals shall be maintained on site throughout the duration of the project. The contractor shall thoroughly review and understand all permits and permit conditions prior to fabrication of any materials or products to be used as part of the project.
- 10. The contractor is responsible for independently verifying all existing onsite utilities within and adjacent to the limits of the project activities. Underground utility, structure and facility locations depicted and noted on the plans have been compiled, in part, from record mapping supplied by the respective utility companies or governmental agencies, from parol testimony, and from other sources. These locations must be considered as approximate in nature. Additionally, other such features may exist on the site, the existence of which are unknown to the Engineer.
- 11. The contractor is responsible for ensuring the installation of all improvements comply with all requirements of utility companies with jurisdiction and/or control of the site.
- 12. Locations of all existing and proposed services are approximate. Final utility service sizes and locations, including, but not limited to, the relocation and/or installation of utility poles, or the relocation and/or installation of transformers, are at the sole discretion of the respective utility companies.
- 13. Prior to commencement of any work, the contractor shall independently coordinate and confirm with the appropriate utility companies to finalize all utility services and/or relocations to ensure no conflict with the design plans and that proper depths can be achieved. All discrepancies must immediately be reported to the Engineer in writing. Should a conflict arise due to the final designs of the utility company, the contractor shall notify the Engineer in writing and await a written resolution prior to proceeding with further utility installations.
- 14. Prior to commencing construction, the contractor shall field verify all existing conditions, topographic information, utility invert elevations, and proposed layout dimensions, and must immediately notify the Engineer in writing if actual site conditions differ or are in conflict with the proposed work. No extra compensation will be paid to the contractor for work which has to be redone or repaired due to dimensions or grades shown incorrectly on these plans unless the contractor receives written permission from Owner/developer giving authorization to proceed with such additional work.
- 15. Where utilities are proposed to cross/traverse existing underground utilities, the elevations of the existing utilities shall be verified in the field prior to construction by excavating a test pit at the proposed utility crossing point. Should the field verified existing utility be in conflict with the proposed site designs, the contractor shall notify the Engineer in writing and shall not proceed with said utility construction until further direction is given from the Engineer.
- 16. At least 72 hours prior to starting any site activity or demolition, the contractor shall notify, at a minimum, the building official, municipal engineer, department of public works, planning and zoning commission, the Engineer, and local inland wetland commission, as applicable. The contractor shall also attend a pre-construction meeting with the local municipality, if required, prior to commencing any site activity or demolition.
- 17. Prior to starting any site activity or demolition, the contractor shall implement the soil erosion and sediment control measures as noted on the plans. Refer to the Erosion and Sedimentation Control Notes.
- 18. The demolition plan or existing features designated to be removed are intended to provide only general information regarding items to be demolished and/or removed. The contractor shall review all site plans (and architectural drawings as applicable) to assure that all demolition activities and incidental work necessary for the construction of the new site improvements are completed.
- 19. The contractor shall protect and maintain the operation and service of all active utilities and systems that are not being removed during all construction activities. Should a temporary interruption of utility services be required as part of the proposed construction activities, the contractor shall coordinate with appropriate utility companies and the affected end users to minimize impact and service interruption.

- 20. The contractor shall arrange for and coordinate with the appropriate utility companies for all services that require temporary or permanent termination for the project, whether shown on the site plans or not. Termination of utilities shall be performed in compliance with all local, state and/or federal regulations.
- 21. Contractor must prepare record drawings depicting the location of existing utilities that are capped, abandoned in place, or relocated and provide to the Owner and the Engineer of record.
- 22. Should hazardous material be discovered/encountered, which was not anticipated/addressed in the project plans and specifications, cease all work immediately and notify Owner and Engineer regarding the discovery of same. Do not continue work in the area until written instructions are received from an environmental professional.
- 23. The contractor is responsible for preventing movement, settlement, damage, or collapse of existing structures, and any other improvements that are to remain. If any existing structures that are to remain are damaged during construction, repairs shall be made using new product/materials resulting in a pre-damage condition, or better. Contractor is responsible for all repair costs. Contractor shall document all existing damage and to notify the Owner prior to the start of construction.
- 24. The use of explosives, if required, must comply with all local, state and federal regulations. The contractor shall obtain all permits that are required by the federal, state and local governments, and shall also responsible for all notification, inspection, monitoring or testing as may be required.
- 25. All debris from removal operations must be removed from the site at the time of excavation. Stockpiling of demolition debris will not be permitted. Debris shall not be burned or buried on site. All demolition materials to be disposed of, including, but not limited to, stumps, limbs, and brush, shall be done in accordance with all municipal, county, state, and federal laws and applicable codes. The contractor must maintain records of all disposal
- 26. The contractor is responsible for repairing all damage to any existing utilities during construction, at its own expense.
- 27. All new utilities/services, including electric, telephone, cable tv, etc. are to be installed underground unless noted otherwise on the plans. The Contractor shall be responsible for installing all new utilities/services in accordance with the utility/service provider's written installation specifications and standards.
- 28. All earthwork activities must be performed in accordance with these plans and specifications and the recommendations set forth in the geotechnical report completed for this project. In the absence of a geotechnical report, all earthwork activities must comply with the standard state Department of Transportation (DOT) specifications (latest edition) and any amendments or revisions thereto. All earthwork activities must comply all applicable requirements, rules, statutes, laws, ordinances and codes for the jurisdictions where the work is being performed.
- 29. The contractor is responsible for removing and replacing unsuitable materials with suitable materials. All excavated or filled areas must be properly compacted. Moisture content at time of placement must be submitted in a compaction report prepared by a qualified geotechnical engineer, licensed in the state where the work is performed, verifying that all filled areas and subgrade areas within the building pad area and areas to be paved have been compacted in accordance with these plans, specifications and the recommendations. Subbase material for building pads, sidewalks, curb, or asphalt must be free of organics and other unsuitable materials. Should subbase be deemed unsuitable by Owner/developer or Owner/developer's representative, subbase is to be removed and filled with suitable material and properly compacted at the contractor's expense. All fill, compaction, and backfill materials required for utility installation must be coordinated with the applicable utility company specifications. The Engineer shall have no liability or responsibility for or as related to fill, compaction, backfill, or the balancing of earthwork.
- 30. Pavement must be saw cut into straight lines and must extend to the full depth of the existing pavement, except for edge of butt joints.
- 31. The tops of existing manholes, inlet structures, and sanitary cleanout tops must be adjusted as necessary, to match proposed grades.
- 32. Where retaining walls (whether or not they meet the jurisdictional definition) are identified on plans, elevations identified herein are for the exposed portion of the wall. Wall footing/foundation elevations are not identified herein and are to be set/determined by the contractor based on final structural design shop drawings prepared by an appropriate professional licensed in the state where the construction occurs.
- 33. Unless indicated otherwise or required by the authority having jurisdiction, all
  - Reinforced Concrete pipe (RCP) shall meet the requirements of AASHTO M 170 Class IV with silt tight joints.
  - High-Density Polyethylene pipe (HDPE) shall conform to AASHTO M 294, Type S (smooth interior with angular corrugations) with gaskets for silt tight joints.
  - Polyvinyl chloride (PVC) pipe for roof drain connections shall be SDR 35 gasket pipe. Polyvinyl Chloride (PVC) pipe for sanitary sewer pipe shall be SDR 35 gasket pipe.
- 34. Storm sewer pipe lengths indicated are approximate and measured to the inside of inlet and/or manhole structure. Sanitary sewer pipe lengths indicated are approximate and measured to center of inlet and/or manhole structure to center of structure.
- 35. Stormwater roof drain locations are approximate and are based on preliminary architectural plans. Contractor is responsible for reviewing and coordinating the final architectural plans to verify final locations and sizes of all roof drains.
- 36. Sewers crossing streams and/or location within 10 feet of the stream embankment, or where site conditions so indicate, must be constructed of steel, reinforced concrete, ductile iron or other suitable material. Sewers conveying sanitary flow, combined sanitary and stormwater flow or industrial flow must be separated from water mains by a distance of at least 10 feet horizontally. If such lateral separations are not possible, the pipes must be in separate trenches with the sewer at least 18 inches below the bottom of the water main, or such other separation as approved by the agency with jurisdiction over same. Where appropriate separation from a water main is not possible, the sewer must be encased in concrete, or constructed of ductile iron pipe using mechanical or slip—on joints for a distance of at least 10 feet on either side of the crossing. In addition, one full length of sewer pipe should be located so both joints will be as far from the water line as possible. Where a water main crosses under a sewer, adequate structural support for the sewer must be provided.
- 37. Contractor's price for water service must include all fees, costs and appurtenances required by the utility to provide full and complete working

- 38. Contractor must contact the applicable water company to confirm the proper water meter and vault, prior to commencing construction. Water main and water service piping shall be installed in accordance with the requirements and specifications of the water authority having jurisdiction. In the absence of such specifications, water main piping must ductile iron (DIP) minimum Class 54. All work and materials must comply with the applicable American Water Works Association (AWWA) standards in effect at the time of the service application.
- 39. The contractor shall ensure that all work located in existing pavement be repaired in accordance with municipal, county and/or DOT details as applicable. Contractor is responsible to coordinate the permitting, inspection and approval of completed work with the agency having jurisdiction over the proposed work.
- 40. Where sump pumps are installed, all discharges must be connected to the storm sewer or discharged to an approved location.
- 41. For single and multi-family residential projects, spot elevation(s) adjacent to the buildings are schematic for non-specific building footprints. Grades must be adjusted based on final architectural plans and shall provide a minimum of six (6) inches below top of foundation/concrete and/or six (6) inches below the façade treatment, whichever is lower, and must provide positive drainage away from the structure (minimum of 2%). All areas shall be graded to preclude ponding adjacent to buildings, and on or adjacent to walks/driveways leading to the buildings. All construction, including grading, must comply with all applicable building codes, local, state and federal requirements, regulations and ordinances.
- 42. Contractor shall maintain and control traffic on and offsite in conformance with the current Federal Highway Administration (FHWA) "Manual on Uniform Traffic Control Devices" (MUTCD), and the federal, state, and local regulations for all aspects of demolition and site work. If a Maintenance of Traffic Plan is required for work that affects public travel either on or offsite, the contractor shall be responsible for the cost and implementation of said plan.
- 43. All temporary and permanent onsite and offsite signage and pavement markings shall conform to MUTCD, ADA, state DOT, and/or local approval requirements.
- 44. Contractor shall prevent the emission of dust, sediment, and debris from the site, and shall be responsible for corrective measures such as street sweeping, and clean-up work as deemed necessary by the Engineer orthe authority having jurisdiction.
- 45. All concrete must be air entrained with a minimum compressive strength of 4,000 psi at 28 days unless otherwise specified on the plans, details and/or geotechnical report.
- 46. The Engineer will review contractor submittals which the contractor is required to submit, but only for the sole purpose of checking for general conformance with the intent of the design and contract documents. The Engineer is not responsible for any deviations from the construction documents unless contractor received explicit direction to do so, in writing, from the Engineer. The contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, and for techniques of assembly and/or fabrication processes.
- 47. All dimensions are to face of curb, edge of pavement, or edge of building, unless noted otherwise.
- 48. The contractor shall install and/or construct all aspects of the project in strict compliance with and accordance with manufacturer's written installation standards, recommendations and specifications.

#### AMERICANS WITH DISABILITY ACT NOTES TO CONTRACTOR:

The contractor shall review the proposed construction with the local building official prior to the start of construction. Contractors shall be precise in the construction of Americans with Disabilities Act (ADA) accessible parking, components, and accessible routes for the project. These components shall comply with all applicable state and local accessibility laws and regulations and the current ADA regulations and construction standards. These components include, but are not limited to the following:

- Parking spaces and parking aisles shall not exceed a 1:50 (nominally 2.0%) slope in any direction.
- Accessible routes shall be a minimum of 36" wide (unobstructed). Handrails and car overhangs may not obstruct these areas. Longitudinal slopes (direction of travel) shall not exceed 1:20 (5.0%) and shall have a cross slope no greater than 1:50 (2.0%).
- Accessible routes exceeding 1:20 (5.0%) shall be considered a "ramp". Maximum slopes of a ramp shall be 1:12 (8.3%) in the direction of travel, and a cross slope of 1:50 (2.0%). Ramps shall have maximum rise of thirty (30) inches, shall be equipped with hand rails on both sides, and landings at the top and bottom of the ramp. Landings shall not exceed 1:50 (2.0%) in any direction and have positive drainage away from the landing.
- A landing shall be provided at the exterior of all doors and at each end of ramps. Landings shall not exceed 1:50 (2.0%) in any direction and have positive drainage away from the landing and/or building. The landing shall be no less than 60 inches long unless permitted otherwise per the ADA
- Curb ramps— shall not exceed a 1:12 (8.3%) slope for a maximum length of six (6) feet or a maximum rise of six (6) inches.
- The contractor shall verify all existing elevations shown on the plan in areas of existing doorways, accessible routes or other areas where re-construction is proposed. The contractor shall immediately notify the Owner and Engineer in writing if any of the proposed work intended to meet ADA requirements is incapable of doing so, or if there is any ambiguity regarding which design components are intended to meet ADA requirements. The contractor shall not commence the work in the affected area until receiving written resolution

from Engineer.

	LEGEND	
EXISTING	DESCRIPTION	PROPOSED
BORINGS		
₽	BORING / TEST PIT	₽ •
<del>-</del>	LOCATION	•
COMMUNICATION	UNDERGROUND	_
c <sub>x</sub> c <sub>x</sub>	COMMUNICATION LINES	c_
DOMESTIC WATER		
$$ $w_x$ $w_x-$	WATER MAIN	w
ws <sub>x</sub>	WATER SERVICE	———— ws ————
F <sub>x</sub> F <sub>x</sub> _	FIRE SERVICE LINE	
	NON-POTABLE WATER LINE	NPW
(W) (W)	WATER VALVE /	⊚ △ ₩V
	FIXTURES FIRE HYDRANT	
LIQUID FUEL	FIRE HIDRANI	<b>A</b>
	MAIN LIQUID FUEL LINE	LF
	LIQUID FUEL SERVICE	
——————————————————————————————————————	LINE	LFS -
——————————————————————————————————————	LIQUID FUEL LINE, ABANDONED	
IRRIGATION		
ı <sub>x</sub> ı <sub>x</sub> _	IRRIGATION LINES	
LIGHTING		
☆ / ﴿	POLE / GROUND	* / €
NATURAL GAS	MOUNTED LIGHT	, ,
— — G <sub>x</sub> — — G <sub>x</sub> —	GAS MAIN	G
GS <sub>X</sub>	GAS SERVICE LINE	
POWER	GAS SERVICE LINE	63
EO <sub>x</sub>	ELECTRICAL LINES,	
EU <sub>X</sub>	OVERHEAD	ЕО
———— EU <sub>X</sub> ———	ELECTRICAL LINES, UNDERGROUND	EU
P	UTILITY POLE	<b>D</b>
PROPERTY		
	PROPERTY LINE	
	EASEMENT LINE	
0	IRON PIPE	
0	IRON ROD	•
•	MONUMENT	
ROADS		
	GUARD RAIL	
EROSION CONTROL		
	SILT FENCE	SF
SITE FEATURES		
	4" DOUBLE SOLID YELLOW LINE	DSYL
	4" SINGLE SOLID WHITE	SSWL
	LINE	
	BIT. CONC. LIP CURB PRECAST CONCRETE	BCLC
	CURB	PCC
SANITARY SEWER		
s <sub>x</sub> s <sub>x</sub>	SANITARY SEWER MAIN	s
$-$ — $ss_x$ — — $ss_x$ —	SANITARY SEWER SERVICE LINE	ss
(S)	SANITARY SEWER	(6)
	MANHOLE	
STORM SEWER	STORM DRAIN DIDE	
	STORM DRAIN PIPE	DI
RL <sub>X</sub> RL <sub>X</sub>		RL ————————————————————————————————————
— — up — — up —	UNDERDRAIN	
<u> </u>	STORM DRAIN MANHOLE	© 
	CURB INLET	
	CATCH BASIN	
TOPOCRAPHY	YARD DRAIN	
TOPOGRAPHY	CONTOUR	[OE]
	CONTOUR SPOT ELEVATION	95
×61.95	SPOT ELEVATION	<b>●</b> 30
OTHER	İ	
	DAMD	r c
	RAMP	R
	RAMP LANDSCAPE AREA	R LSA

PROPERTY OWNER:

89 SADDLEBACK DRIVE

294 GROVE LANE EAST

WAYZATA, MN 55391

C/O JOHN J WOODCOCK III

SOUTH WINDSOR, CT 06074

SCANNELL PROPERTIES #644, LLC

FOUR WOODS LLC

APPLICANT:

(763) 331-8851

SUITE 140

**LEGEND** 

PAINTED WHITE SYMBOL-ACCESSIBLE PARKING SYMBOL

—SEE 'ACCESSIBLE PARKING SIGN' DETAIL \_\_\_2" GALVANIZED U-CHANNEL POST " THICK HDPE BOLLARD SLEEVE WITH REFLECTIVE STRIPES. COLOR: BLUE -6" DIA. SCH. 40 STEEL PIPE FILLED WITH CONCRETE --EXPANSION JOINT WHEN ADJACENT SURFACE IS CONCRETE -FINISHED GRADE -12" DIA. CLASS 'F' CONCRETE FOOTING -COMPACTED SUBGRADE

Not to Scale

ACCESSIBLE PARKING SIGN POST Not to Scale 1. SIGNS SHALL BE 18 GAUGE FLAT SCREENED ALUMINUM. 2. FOR POST MOUNTING, USE TWO HOT-DIPPED GALVANIZED MACHINE BOLTS WITH WASHERS. 3. FOR WALL MOUNTING, USE FOUR RESERVED HOT-DIPPED GALVANIZED LAG BOLTS PARKING WITH EXPANSION SHIELD. PERMIT REQUIRED WHITE TEXT AND SYMBOL-VIOLATORS WILL BE FINED MIN \$150 BLUE BACKGROUND-INSTALL FOR VAN-ACCESSIBLE SPACES ONLY VAN ACCESSIBLE

ACCESSIBLE PARKING SIGN

SEE 'ACCESSIBLE PARKING SIGN POST' & 'ACCESSIBLE PARKING 4" WHITE PAINTED LINES, TYP. SEE 'ACCESSIBLE PARKING SYMBOL' DETAIL

> 1. ACCESSIBLE PARKING SPACES AND ADA PASSENGER LOADING AREAS SHALL BE GRADED WITH A MAXIMUM SLOPE OF 1:50 (2%) IN ALL DIRECTIONS.

VAN ACCESSIBLE PARKING SPACE

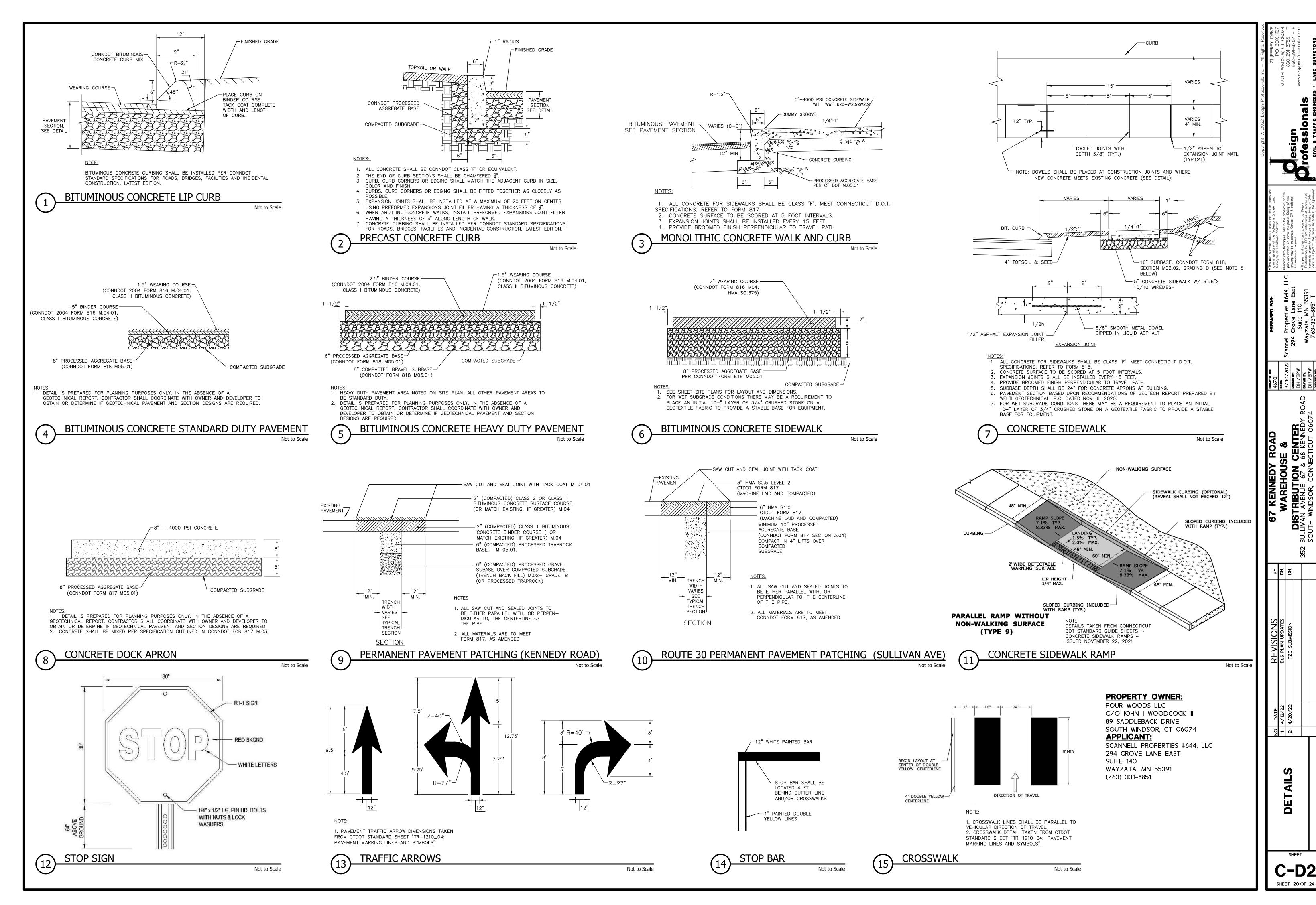
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SHEET

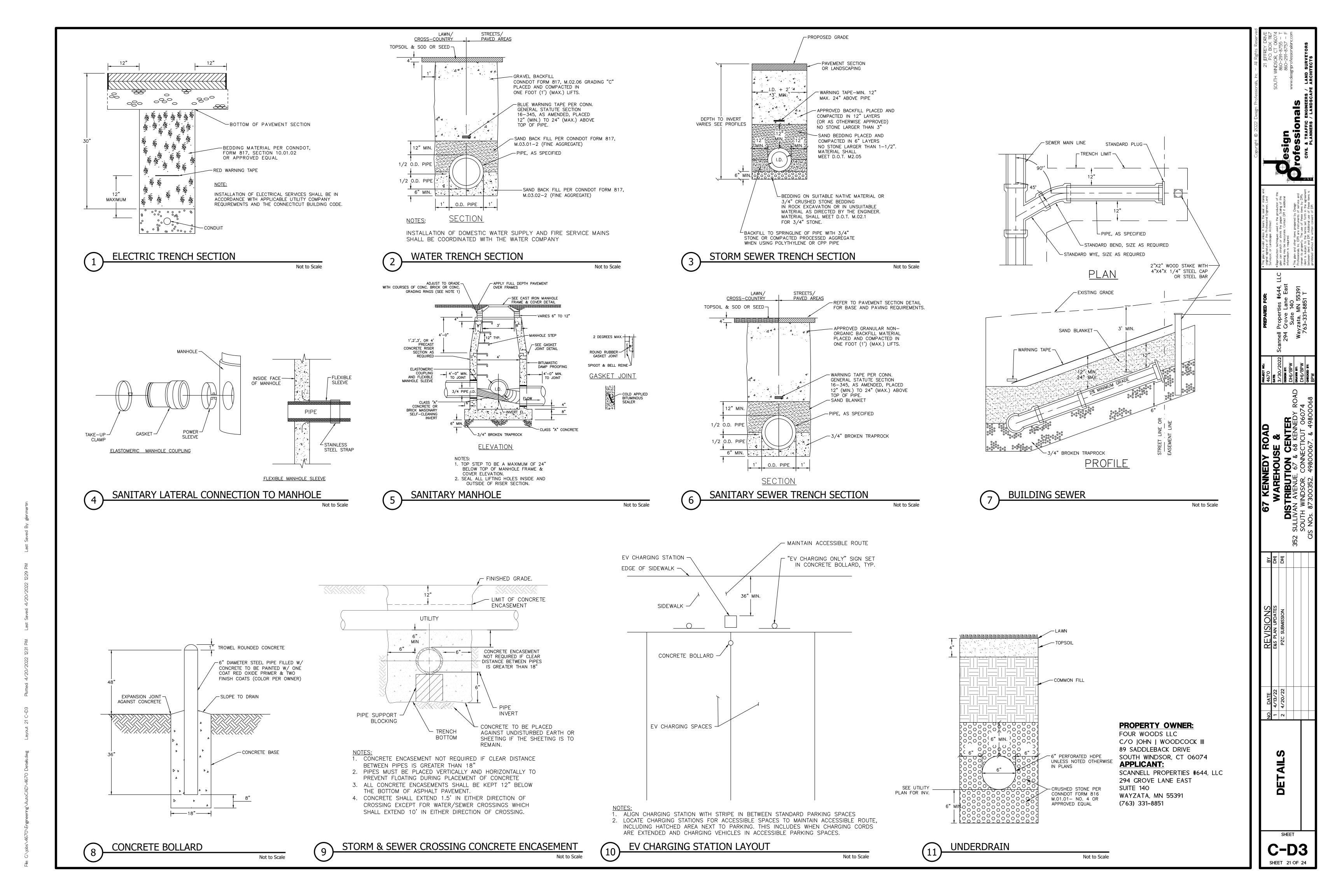
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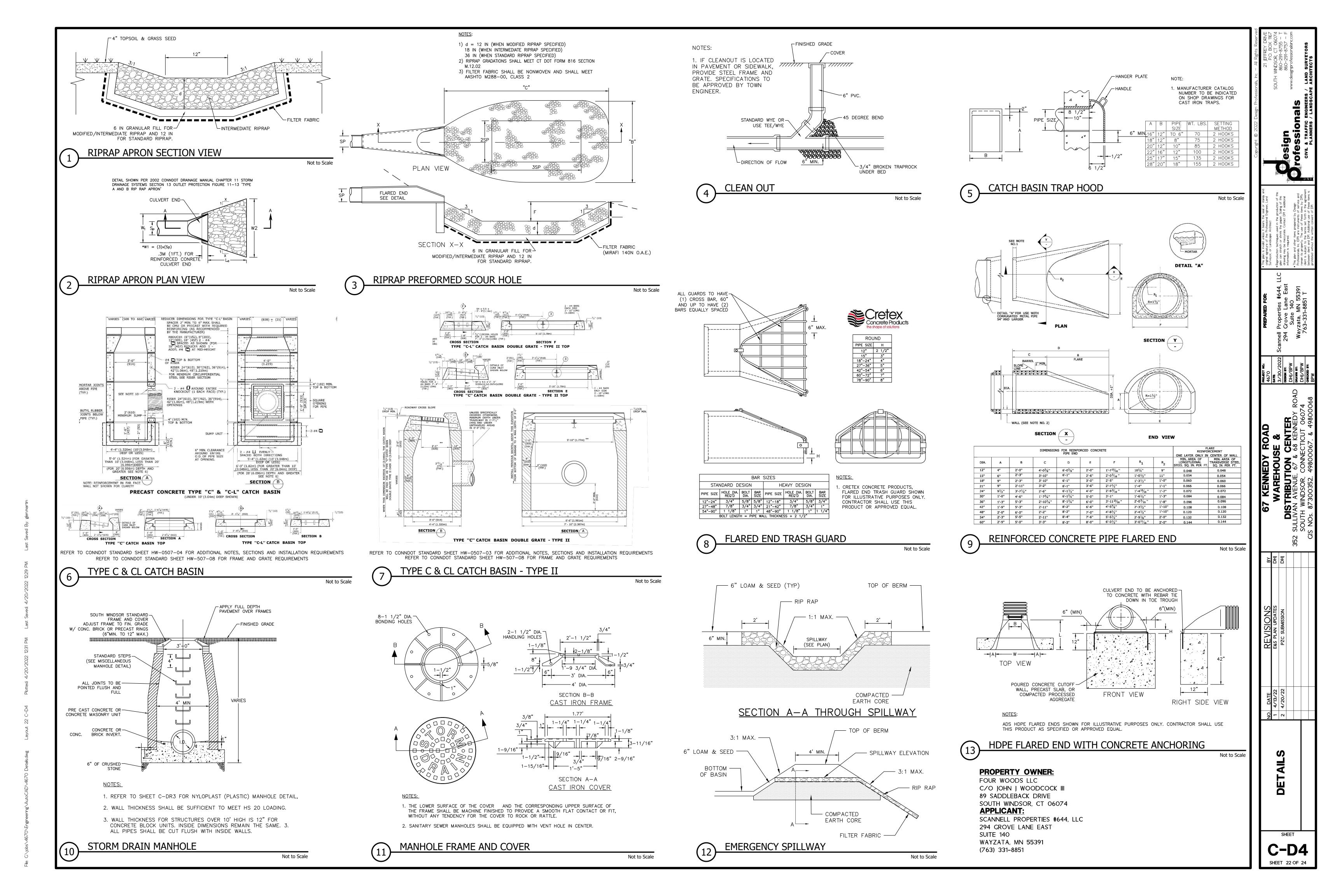
Not to Scale

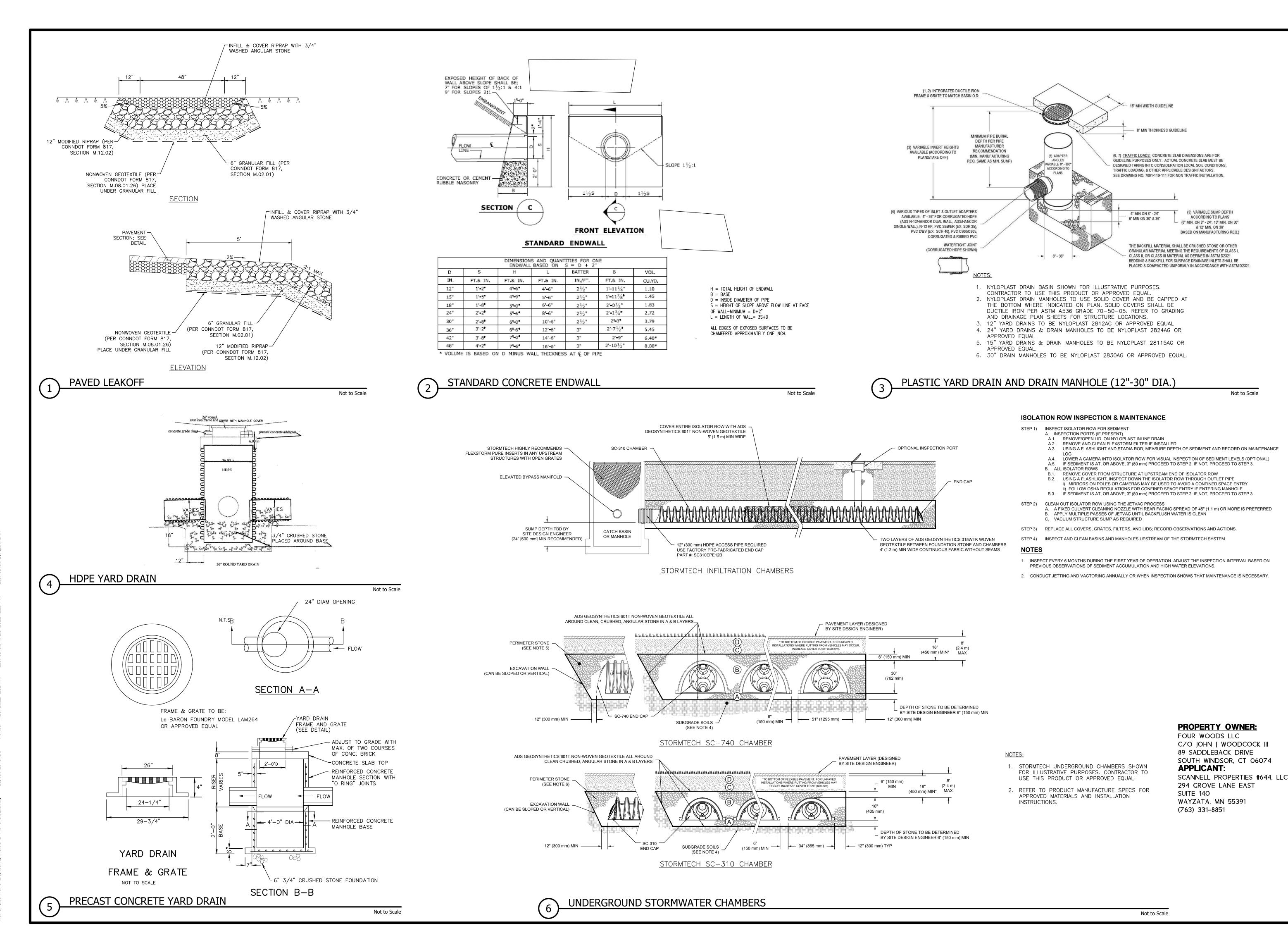
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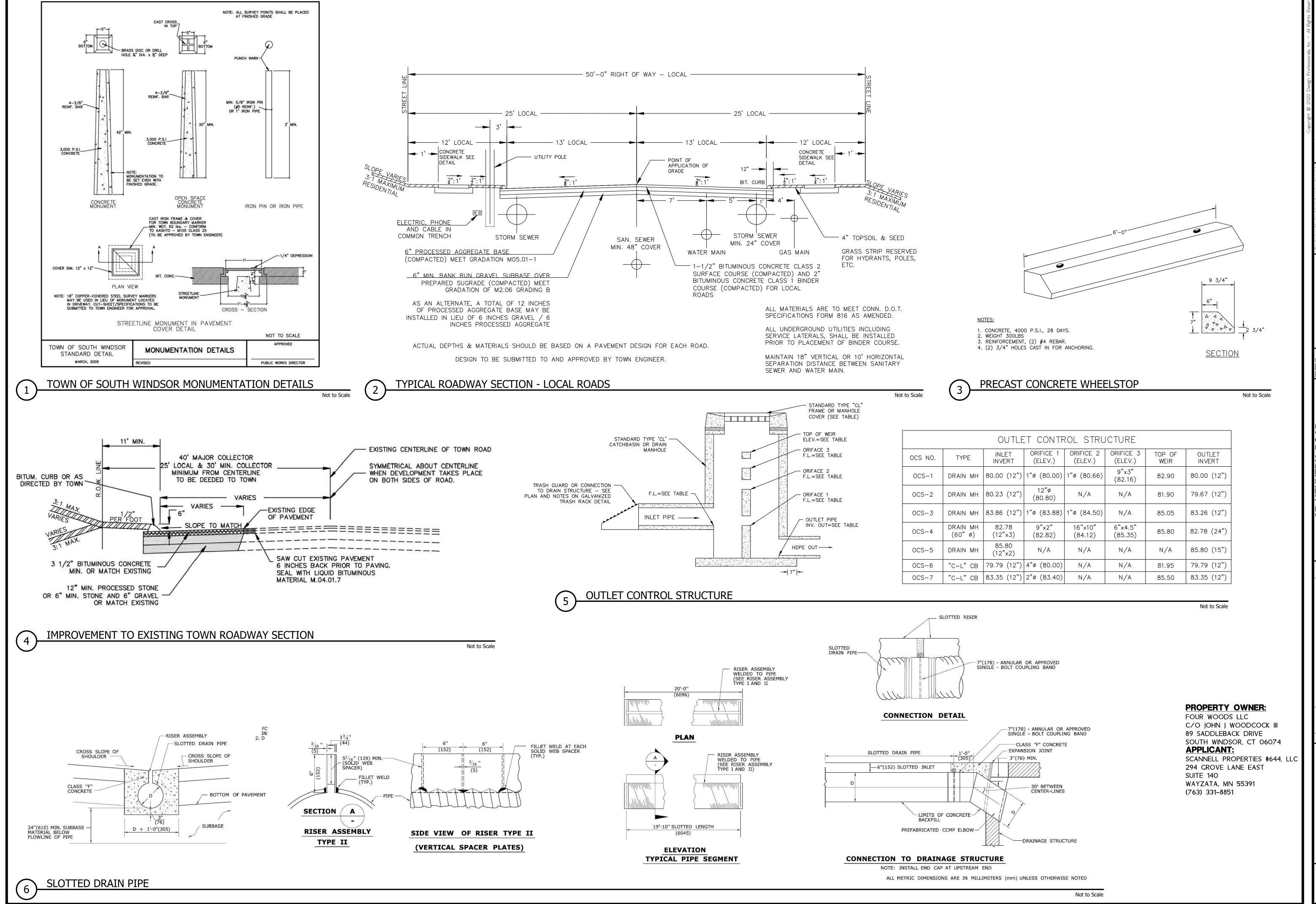


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