# HENRY GARNSEY CONDOMINIUMS



FOR REGISTRY USE

MEDWAY, MA SIFE PLAN

OCTOBER 7, 2024

PREPARED BY:
LEGACY ENGINEERING LLC
730 MAIN STREET, SUITE 2C
MILLIS, MA 02054

MILEORO STREET

AND TOWNS

LOWYS

TOWNS

TOW

**LOCUS** SCALE: 1" = 50' PREPARED FOR:
METAL BEARD, INC.
16 MOWRY STREET
MENDON, MA 01756

BY
PLAN SCALE: AS NOTED

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT
VILLAGE-RESIDENTIAL (VR)
MULTI-FAMILY HOUSING
OVERLAY DISTRICT (MHOD)
RABBIT HILL NATIONAL
REGISTER HISTORIC DISTRICT

ASSESSORS PARCEL 47-113

DEED REFERENCE BOOK 41922, PAGE 504

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

DATE:
REGISTERED LAND SURVEYOR
DATE APPROVED:
DATE ENDORSED:

MEDWAY PLANNING & ECONOMIC

DEVELOPMENT BOARD

HENRY GARNSEY
CONDOMINIUMS
COVER SHEET
PLAN OF LAND
IN MFDWAY MA

730 MAIN STREET SUITE 2C MILLIS, MA 02054

508-376-8883(o)

C-0

DATE.



WAIVER LIST

SHEET LEGEND

C-O: COVER SHEET

C-4: LAYOUT SHEET

C-9: DETAILS C-10: DETAILS C-11: DETAILS DUPLEX PLANS

A-1: PERSPECTIVE
A-2: ELEVATIONS
A-3: ELEVATIONS
A-4: BASEMENT
A-5: 1ST FLOOR
A-6: 2ND FLOOR
TRIPLEX PLANS
A-1: PERSPECTIVE
A-2: ELEVATIONS
A-3: ELEVATIONS
A-4: BASEMENT

A-5: 1ST FLOOR

A-6: 2ND FLOOR LANDSCAPE PLANS

L1: SITE PLANTING PLAN

D1: PLANTING DETAILS

D2: PLANTING SPECIFICATIONS

C-1: SITE CONTEXT SHEET

C-2: EXISTING CONDITIONS

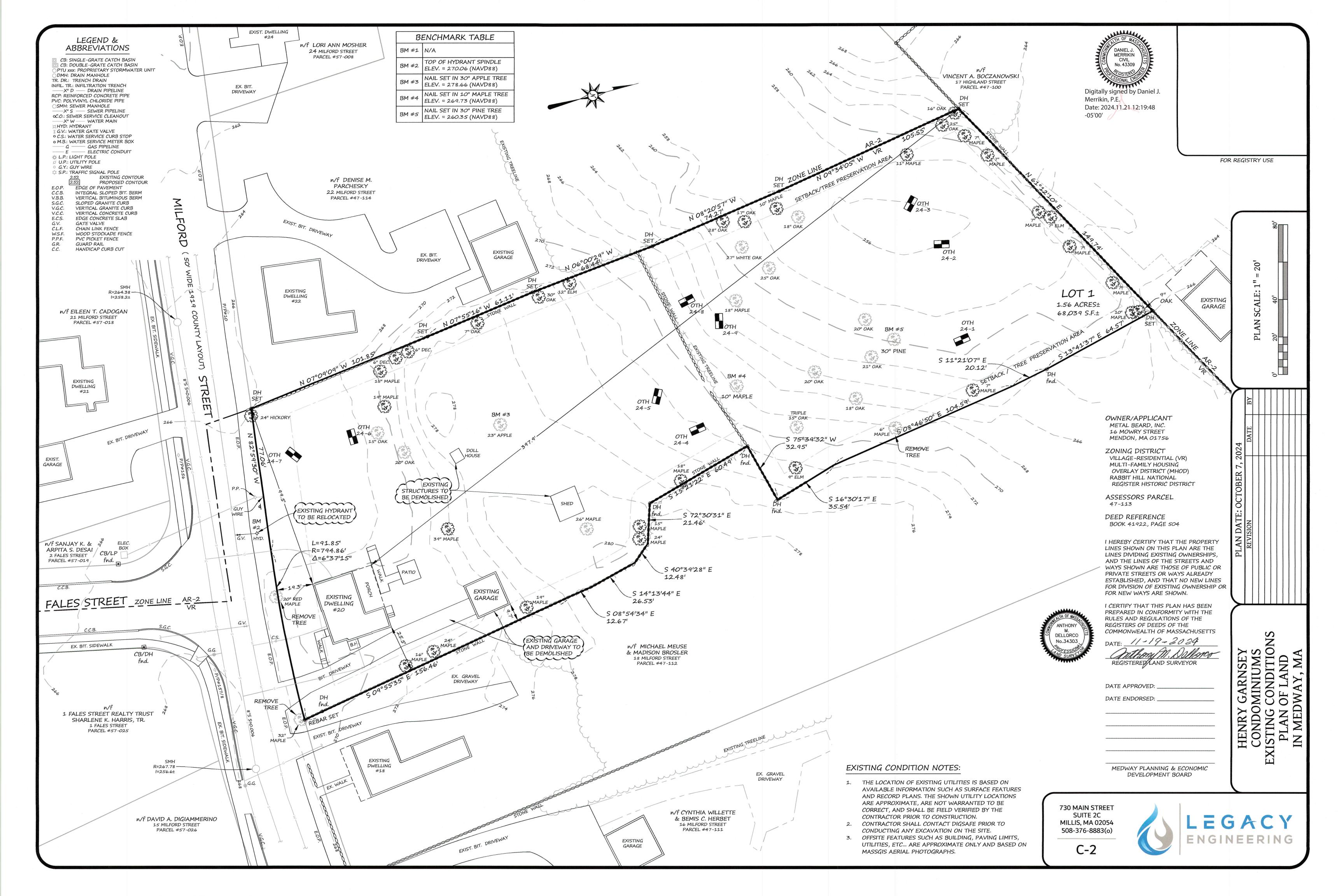
C-5: GRADING & DRAINAGE
C-6: UTILITIES SHEET
C-7: LIGHTING SHEET
C-8: EROSION CONTROL

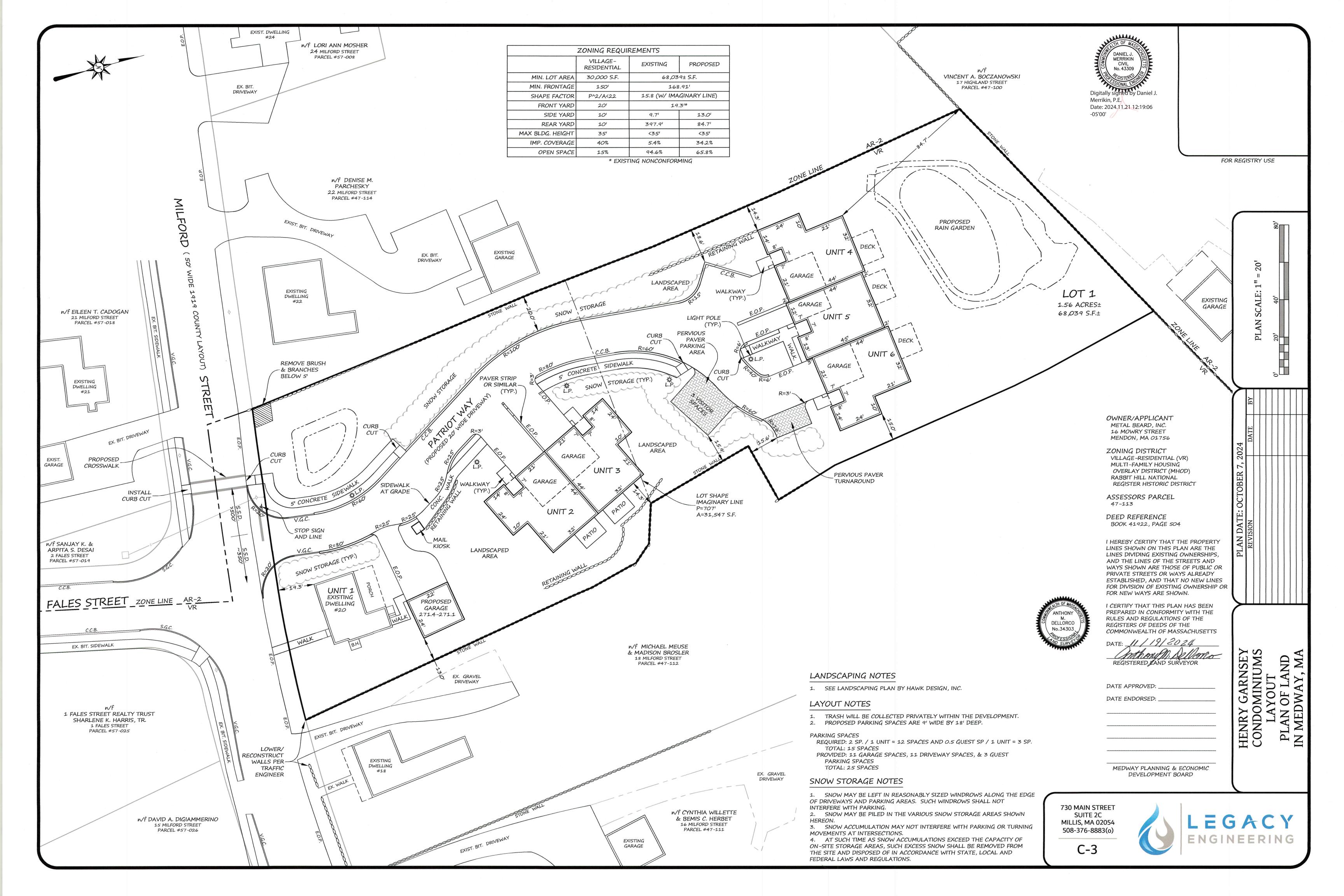
NO WAIVERS ARE REQUESTED AT THIS TIME

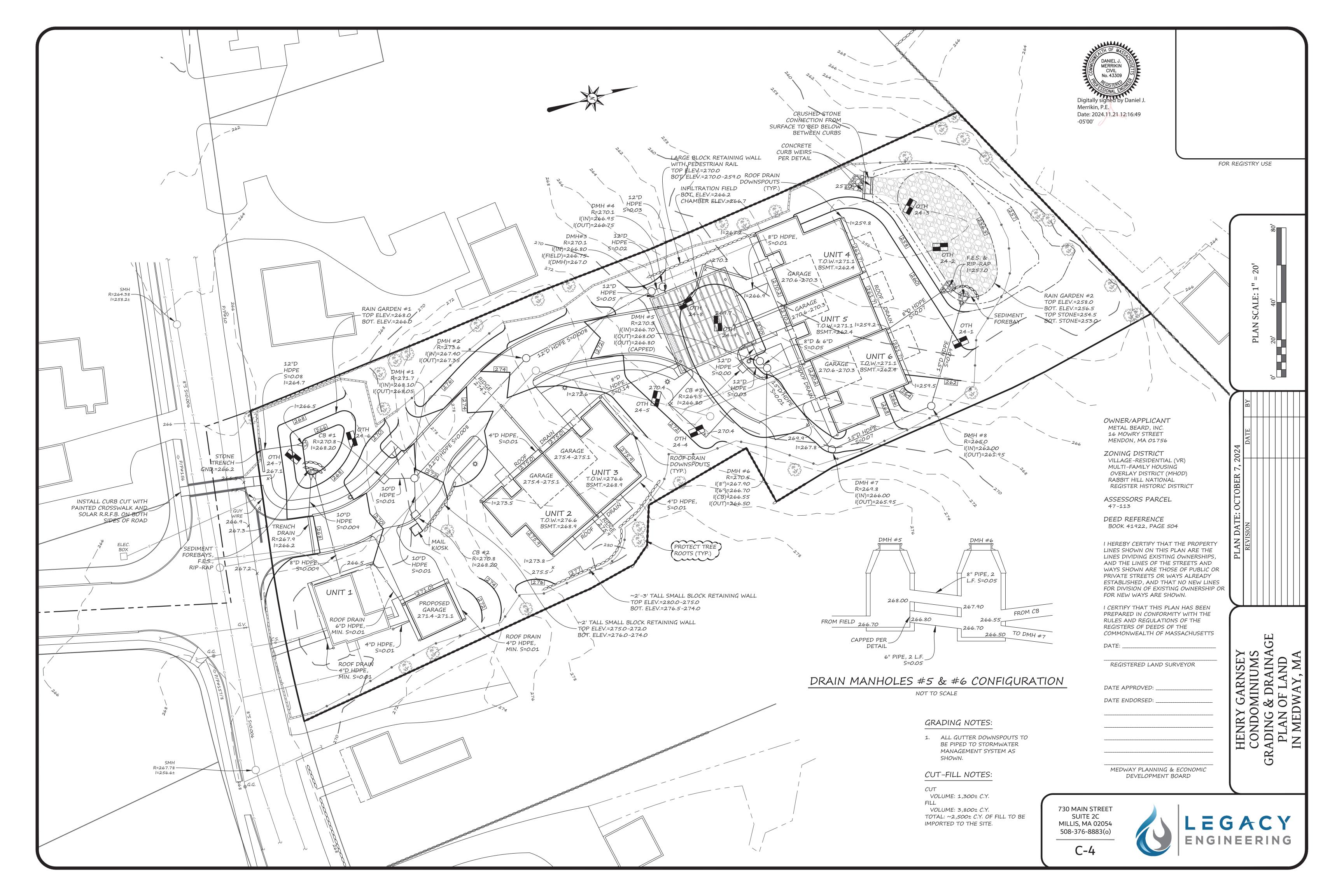
L2: UNIT 1, 2, & 3 PLANTING PLAN
L3: UNIT 4, 5, & 6 PLANTING PLAN

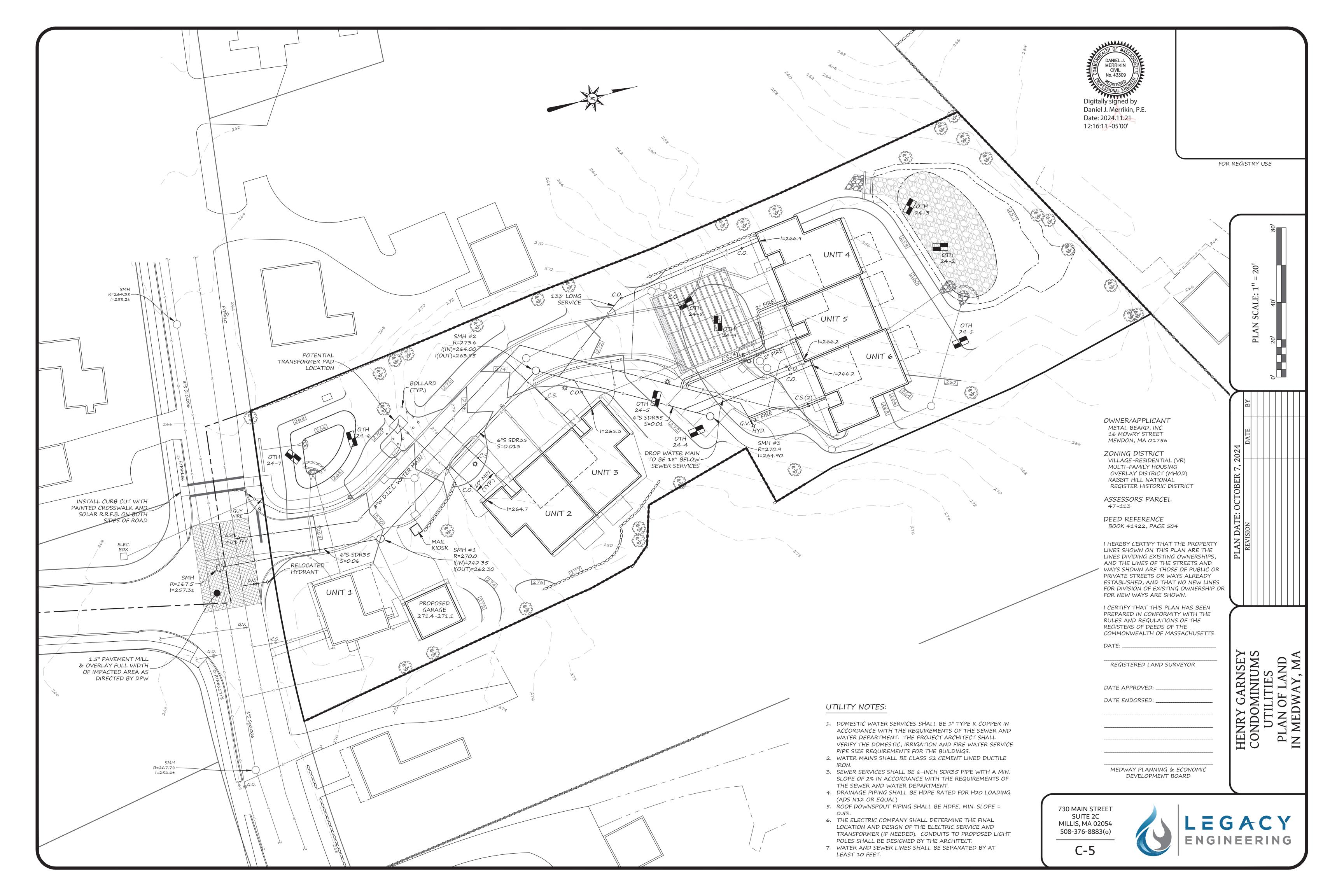
300' ABUTTERS: NOTES: 47-097 REFER TO SHEET C-2 FOR SITE PROPERTY LINE TOMMY NGA HONG CHAN AND TOPOGRAPHICAL DATA. THERE ARE NO 23 HIGHLAND STREET EASEMENTS ON THE LOCUS. CHRISTIAN P. HOCKEY SARAH L. HOCKEY 21 HIGHLAND STREET 47-099 J. Merrikin, P.E. ERIC S. COOK Date: 2024.11.21 12:20:23 19 HIGHLAND STREET -05'00' 47-100 VINCENT A. BOCZANOWSK 117 HIGHLAND STREET 47-101 NORA LORD FOR REGISTRY USE JASON LORD 15 HIGHLAND STREET 47-102 CHRISTOPHER MULKERRIN JENNIFER LYNN MULKERRIN 13 HIGHLAND STREET 47-110 SHELLY M. SANRICCA MICHAEL D. DANIELE 10 MILFORD STREET 47-111 CYNTHIA WILLETTE BEMIS C. HERBET 16 MILFORD STREET MICHAEL MEUSE MADISON BROSLER 18 MILFORD STREET 47-114 DENISE M. PARCHESKY 22 MILFORD STREET 47-115 MARK E. ROBINSON LISA M. ROBINSON 26 MILFORD STREET *5*7*-*008 LORI ANN MOSHER 24 MILFORD STREET 57-010 JONATHAN C. HATOSY 25 MILFORD STREET 47-115 57-018 EILEEN T. CADOGAN 47-100 21 MILFORD STREET 57-008 OWNER/APPLICANT 57-019 METAL BEARD, INC. SANJAY K. DESAI 16 MOWRY STREET ARPITA S. DESAI MENDON, MA 01756 2 FALES STREET *57-020* ZONING DISTRICT PEARL REALTY TRUST VILLAGE-RESIDENTIAL (VR) ROBERT S. & DOROTHY L. PEARL, TTEES MULTI-FAMILY HOUSING 4 FALES STREET OVERLAY DISTRICT (MHOD) 47-111 RABBIT HILL NATIONAL 57-024 CHOATE REGISTER HISTORIC DISTRICT 47-102 MICHAEL J. NORTHCOTT PARK WEST KAREN L. NORTHCOTT **3 FALES STREET** ASSESSORS PARCEL 47-113 57-0251 FALES STREET REALTY TRUST DEED REFERENCE SHARLENE K. HARRIS, TR BOOK 41922, PAGE 504 .1 FALES STREET I HEREBY CERTIFY THAT THE PROPERTY DAVID A. DIGIAMMERINO LINES SHOWN ON THIS PLAN ARE THE 15 MILFORD STREET LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND *5*7*-0*27 [] BEMIS REALTY TRUST WAYS SHOWN ARE THOSE OF PUBLIC OR LAWRENCE BEMIS, TR. PRIVATE STREETS OR WAYS ALREADY 13 MILFORD STREET ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR *5*7*-0*28 FOR NEW WAYS ARE SHOWN. MARA HACKETT FRANCIS HACKETT I CERTIFY THAT THIS PLAN HAS BEEN 11 MILFORD STREET PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS HENRY GARNSEY CONDOMINIUMS SITE CONTEXT SHEET PLAN OF LAND IN MEDWAY, MA REGISTERED LAND SURVEYOR DATE APPROVED: DATE ENDORSED: MEDWAY PLANNING & ECONOMIC DEVELOPMENT BOARD LOCUS SCALE: 1" = 250' 730 MAIN STREET SUITE 2C MILLIS, MA 02054 508-376-8883(o) ENGINEERING

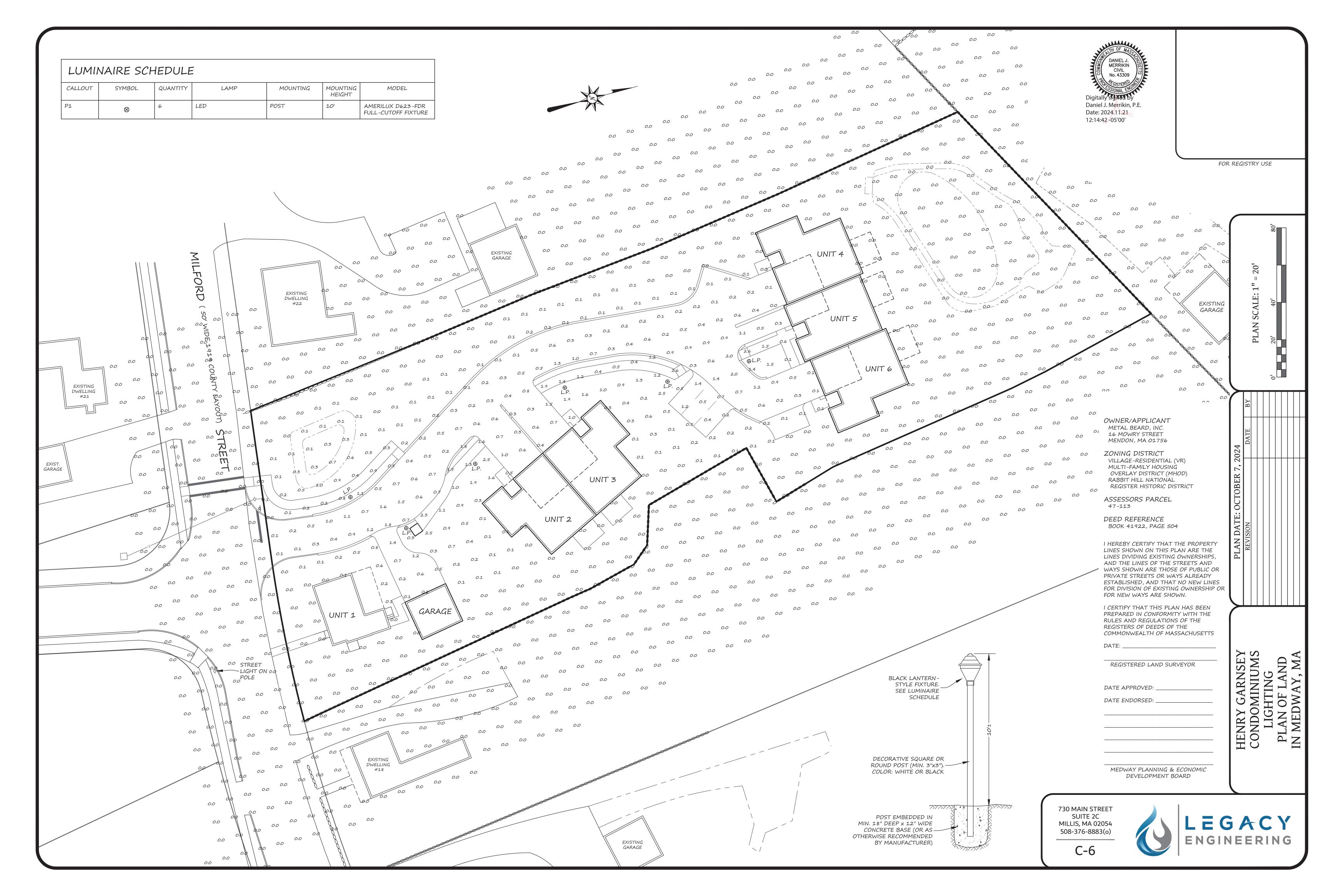
C-1











#### SEDIMENT & EROSION CONTROL NOTES 1. IF APPLICABLE (I.E. >1 ACRE OF DISTURBANCE), FOR COMPLETE EROSION CONTROL AND CONSTRUCTION ACTIVITY GUIDANCE, REFER TO THE STORMWATER POLLUTION PREVENTION PLAN ("SWPPP"). OTHERWISE FOLLOW THE SITE PLAN. FOR SWPPP PROJECTS, A NOTICE SHALL BE POSTED VISIBLE FROM A PUBLIC RIGHT-OF-WAY No. 43309 WITH CONTACT INFORMATION AND INSTRUCTIONS TO FIND A COPY OF THE SWPPP. PHASING AND CONSTRUCTION SEQUENCE 1. PHASE 1 - CONSTRUCTION SEQUENCE Digitally signed by Daniel 1.1. STAKEOUT AND INSTALL EROSION AND PERIMETER CONTROLS (WHICH WILL DELINEATE J. Merrikin, P.E. THE LIMIT OF WORK FOR THE PROJECT); 1.2. DEMARCATE THE LOCATION OF EXISTING UTILITIES ON AND AROUND THE CONSTRUCTION Date: 2024.11.21 12:14:06 -05'00' 1.3. CLEAR THE PROPOSED ENTRY AREAS AND INSTALL THE CONSTRUCTION ENTRANCE 1.4. CLEAR AND GRUB THE DEVELOPMENT AREA; 1.5. STRIP AND STOCKPILE TOPSOIL; 1.6. COMMENCE ROUGH GRADING TO SUB-GRADE ELEVATIONS; 1.7. INSTALL BUILDING FOUNDATION(S) AND BEGIN BUILDING CONSTRUCTION; 1.8. INSTALL NEW SITE UTILITIES, INCLUDING THE STORMWATER MANAGEMENT SYSTEM; 1.9. COMPLETE CONSTRUCTION OF NEW BUILDING(S); FOR REGISTRY USE 1.10. PAVE THE ROAD/DRIVEWAY AND SIDEWALK (IF APPLICABLE) TO BINDER COURSE; 1.11. LOAM, SEED, AND STABILIZE DISTURBED AREAS, INCLUDING ALL SITE LANDSCAPING; 1.12. CLEANOUT ALL CATCH BASINS AND NEW STORMWATER BMPS IN THE PORTION OF THE SITE AFFECTED BY CONSTRUCTION ACTIVITIES AFTER THE SITE IS FULLY STABILIZED. PERIMETER EROSION CONTROL AND SEDIMENT CONTROLS 1. PERIMETER EROSION AND SEDIMENT CONTROL BARRIERS WILL BE PROVIDED, INSTALLED, AND MAINTAINED DOWNSTREAM OF ALL PROPOSED CONSTRUCTION ACTIVITIES IN EXISTING TREE TO ACCORDANCE WITH THE SWPPP (IF APPLICABLE), THE SITE PLAN, AND ALL PERMITS ISSUED BE PROTECTED. FOR THE SITE DEVELOPMENT. SUCH CONTROLS MUST BE INSTALLED BEFORE ANY EARTH-DISTURBING ACTIVITIES OCCUR ON THE SITE IN QUESTION. EROSION AND SEDIMENT CONTROLS MAY BE INSTALLED IN PHASES SO LONG AS IT PRECEDES ANY EARTH-DISTURBING ACTIVITIES WITHIN THE CONTROLS' UPSTREAM WATERSHED SEDIMENT SHALL BE REMOVED ALONG SUCH CONTROLS ON A REGULAR BASIS. IN NO CASE, SHALL SEDIMENT BE ALLOWED TO REACH A DEPTH EQUAL TO ONE HALF OF THE ABOVE MAPLE ) GROUND HEIGHT OF THE EROSION CONTROL DEVICE. SITE ACCESS CONTROLS CONSTRUCTION VEHICLES WILL USE DESIGNATED ENTRY POINTS FOR EACH SITE. CRUSHED EROSION CONTROLS STONE OR RIP-RAP ENTRY APRON(S) WILL BE INSTALLED AND PROPERLY MAINTAINED & LIMIT OF WORK DURING CONSTRUCTION UNTIL THE SITE IS PAVED. ALL CONSTRUCTION ACCESS WILL BE VIA THE FRONTAGE PUBLIC ROAD STREET, WHICH WILL BE KEPT CLEAN AND SWEPT AS NEEDED TO MINIMIZE THE TRACKING OF SOILS AND DUST FROM THE SITE. 1. SOIL STOCKPILES TO BE LEFT IN PLACE MORE THAN 24 HOURS SHALL BE SURROUNDED WITH A LINE OF SILT FENCE OR COMPOST SOCK TO PREVENT THE PILES FROM ERODING INTO THE SITE AND TO DISCOURAGE ON-SITE RUNOFF FROM ERODING THE STOCKPILES. SOIL STOCKPILES TO BE LEFT IN PLACE MORE THAN 14 DAYS SHALL BE STABILIZED TEMPORARILY. DUST CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT WIND EROSION OF THE STOCKPILES. L. DUST CONTROL MEASURES WILL BE IMPLEMENTED REGULARLY TO PREVENT THE OFF-SITE STAKE AND FLAG DEPOSITION OF WIND-ERODED SOILS. THE PRINCIPAL FORM OF DUST CONTROL WILL BE LIMIT OF WORK AT WATER APPLICATION. 25' INTERVALS MAX DISTURBANCE OF STEEP SLOPES CONTRACTORS MUST PAY CAREFUL ATTENTION TO STEEP SLOPES AND MUST IMPLEMENT EROSION CONTROLS ADDITIONAL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES DURING WORK ON & LIMIT OF WORK STEEP SLOPES TO PREVENT EROSION. INSTALL EROSION CONTROL BLANKETS IF NEEDED. EQUIPMENT STORAGE AREAS DESIGNATED FOR FINAL VEGETATIVE SURFACES OR CONSTRUCTION-STAGE OR FINAL STORMWATER INFILTRATION PRACTICES SHALL BE PROTECTED FROM EXCESSIVE COMPACTION BY RESTRICTING VEHICLE ACCESS AND THE TYPES OF EQUIPMENT THAT MAY BE USED IN 19" MAPLE SUCH AREAS. PRIOR TO SEEDING/PLANTING OF SUCH AREAS, EXPOSED SOIL THAT HAS BEEN COMPACTED SHALL BE LOOSENED BY TILLING OR OTHER SIMILAR METHODS. CONDITIONING OWNER/APPLICANT SHALL CONSIST OF DEEP TILLING WITH A ROTARY TILLER, DISC HARROWING, OR MANUAL METAL BEARD, INC. LOOSENING AND RE-GRADING WITH AN EXCAVATOR BUCKET. CONDITIONING SHALL EXTEND 16 MOWRY STREET 4" HICKORY TO A DEPTH OF AT LEAST 12-INCHES. MENDON, MA 01756 PROTECTION OF STORM DRAIN INLETS ZONING DISTRICT L. ALL STORM DRAIN SYSTEM INLETS INSIDE OF PERIMETER CONTROLS SHALL BE PROTECTED WITH SEDIMENT CONTROL MEASURES DESIGNED TO REMOVE SEDIMENT FROM STORMWATER VILLAGE-RESIDENTIAL (VR) PRIOR TO ENTERING THE INLET. CATCH BASINS ALONG THE STREET FRONTAGE SHALL ALSO MULTI-FAMILY HOUSING BE PROTECTED. SUCH MEASURES SHALL BE PERIODICALLY MAINTAINED AND REPLACED AS OVERLAY DISTRICT (MHOD) NEEDED TO ENSURE THEIR PROPER FUNCTIONALITY. SEDIMENT SHALL BE REMOVED DAILY RABBIT HILL NATIONAL WHERE FOUND. REGISTER HISTORIC DISTRICT MAPLE TEMPORARY STABILIZATION NO TREE REMOVAL L. FOR PERMANENTLY OR TEMPORARILY (14 DAYS) CEASED CONSTRUCTION ACTIVITIES, ALLOWED BEYOND LIMIT ASSESSORS PARCEL TEMPORARY SOIL STABILIZATION MEASURES WILL BE EMPLOYED AS SOON AS PRACTICABLE OF WORK. BRUSH AND 47-113 BUT NO LONGER THAN 14 CALENDAR DAYS AFTER STABILIZATION HAS BEEN INITIATED. TREES SMALLER THAN 6" WHERE APPLICABLE, SEE THE SWPPP FOR ADDITIONAL REQUIREMENTS. DBH MAY BE REMOVED DEED REFERENCE CONSTRUCTION MAINTENANCE OF EROSION & SEDIMENT CONTROL MEASURES OR TRIMMED (TYP.) BOOK 41922, PAGE 504 ENTRANCE EROSION AND SEDIMENT CONTROL MEASURES WILL BE MAINTAINED IN GOOD CONDITION FOR THE DURATION OF THE CONSTRUCTION ACTIVITY AND UNTIL SUCH TIME AS THE UPSTREAM AREAS ACHIEVE FINAL STABILIZATION. SEDIMENT WILL BE REMOVED ALONG PERIMETER I HEREBY CERTIFY THAT THE PROPERTY EROSION CONTROLS WHEN THE DEPTH EXCEEDS FOUR-INCHES. ALL CONTROL MEASURES LINES SHOWN ON THIS PLAN ARE THE WILL BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. IF SITE INSPECTIONS IDENTIFY CONTROL MEASURES THAT ARE NOT OPERATING EFFECTIVELY OR FINDS OTHER PROBLEMS, 39" MAPLE EXISTING TREE LINES DIVIDING EXISTING OWNERSHIPS, THE CONTRACTOR MUST: BE PROTECTED AND THE LINES OF THE STREETS AND 1.1. INITIATE WORK TO CORRECT THE PROBLEM IMMEDIATELY UPON DISCOVERY AND WAYS SHOWN ARE THOSE OF PUBLIC OR COMPLETE THE WORK BY THE CLOSE OF THE NEXT WORK DAY IF THE PROBLEM CAN BE STOCKPILE, CORRECTED THROUGH ROUTINE MAINTENANCE: PRIVATE STREETS OR WAYS ALREADY REFUELING, 1.2. FOR MORE SIGNIFICANT REPAIRS OR WHERE INSPECTIONS DETERMINE THAT ADDITIONAL ESTABLISHED, AND THAT NO NEW LINES EQUIPMENT EROSION AND SEDIMENT CONTROLS ARE NEEDED, SUCH WORK MUST BE COMPLETED AND FOR DIVISION OF EXISTING OWNERSHIP OR OPERATION NO LATER THAN 7 CALENDAR DAYS AFTER DISCOVERY OF THE PROBLEM. STORAGE FOR NEW WAYS ARE SHOWN. I CERTIFY THAT THIS PLAN HAS BEEN 1. CONSTRUCTION STAGING AREAS WILL BE LIMITED IN QUANTITY AND WILL BE MAINTAINED IN PREPARED IN CONFORMITY WITH THE A NEAT AND ORDERLY FASHION. REFER TO THE SITE PLAN FOR STAGING AREA LOCATION(S). VEHICLES SHALL BE STORED IN FUELED IN DESIGNATED AREAS. MONITOR ALL EQUIPMENT RULES AND REGULATIONS OF THE FOR LEAKS. WHERE APPLICABLE, REFER TO THE SWPPP FOR ADDITIONAL VEHICLE STORAGE REGISTERS OF DEEDS OF THE 10 AREA REQUIREMENTS. COMMONWEALTH OF MASSACHUSETTS VEHICLE OR EQUIPMENT WASHING IS NOT ALLOWED ON-SITE. 4. MATERIALS AND EQUIPMENT SHALL BE STORED PROPERLY AND ORDERLY. 5. WHERE APPLICABLE, REFER TO THE SWPPP FOR GARNSEY OMINIUMS SED. CONTI 5.1. FURTHER INSTRUCTIONS ON PROPER MATERIAL AND EQUIPMENT STORAGE. 5.2. REFER TO THE SWPPP FOR DISPOSAL OF WASTE, INCLUDING HAZARDOUS WASTE. 5.3. REFER TO THE SWPPP FOR SPILL PREVENTION AND RESPONSE PROCEDURES. REGISTERED LAND SURVEYOR DEWATERING PRACTICES 1. THIS SITE IS NOT EXPECTED TO ENCOUNTER SIGNIFICANT QUANTITIES OF GROUNDWATER EROSION CONTROLS DURING CONSTRUCTION ACTIVITIES BUT IF IT DOES, THE FOLLOWING PRACTICES WILL BE DATE APPROVED: & LIMIT OF WORK 1.1. DO NOT DISCHARGE ANY FLOATING SOLIDS OR FOAM; 1.2. IF DEWATERING WATER IS FOUND TO CONTAIN OIL, GREASE, ETC ... IT MUST BE FILTERED DATE ENDORSED: OR PASSED THROUGH AN OIL/WATER SEPARATOR PRIOR TO DISCHARGE; HENRY (CONDO) SION & SPLAN OF 1.3. WHEREVER POSSIBLE, DISCHARGE DEWATERING WATER TO VEGETATED UPLAND AREAS FOR INFILTRATION. WHERE THIS IS NOT POSSIBLE, DISCHARGE DEWATERING WATER INTO A FILTERING PIT CONSISTING OF A PERIMETER OF DOUBLE ROWS OF HAYBALES LINED WITH THREE LAYERS OF FILTER FABRIC. DO NOT DIRECT DEWATERING WATER INTO WETLANDS WITHOUT PRIOR TREATMENT; 1.4. VELOCITY DISSIPATION MEASURES MUST BE INCLUDED AT ALL DISCHARGE POINTS (RIP-RAP OR CRUSHED STONE APRON). ERO 1. WHERE APPLICABLE, REFER TO SWPPP FOR INSPECTION & REPORTING REQUIREMENTS IN ADDITION TO THE FOLLOWING: 1.1. THE SITE SHALL BE INSPECTED AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN MEDWAY PLANNING & ECONOMIC 24 HOURS OF THE OCCURRENCE OF A STORM EVENT OF 0.25 INCHES OR GREATER. DEVELOPMENT BOARD INSPECTIONS MAY BE REDUCED DURING THE WINTER AND IN STABILIZED AREAS. 1.2. ANY DEFICIENCIES SHALL BE REMEDIED IMMEDIATELY AND NO LATER THAN 7 DAYS AFTER DISCOVERY OF THE DEFICIENCY, AND IF POSSIBLE, PRIOR TO THE NEXT RAINFALL EVENT. 730 MAIN STREET

LEGACY
ENGINEERING

SUITE 2C MILLIS, MA 02054 508-376-8883(o)

**EROSION CONTROL NOTES:** 

1. PROPOSED LAND DISTURBANCE: 54,700± S.F.

#### INTRODUCTION

THIS OPERATIONS AND MAINTENANCE PLAN (HEREINAFTER REFERRED TO "O&M PLAN") IS PROVIDED TO ENSURE THE LONG-TERM MONITORING AND MAINTENANCE OF VARIOUS COMPONENTS OF THE DEVELOPMENT'S INFRASTRUCTURE. THIS O&M PLAN INCLUDES THE FOLLOWING PROVISIONS:

1.STORMWATER SYSTEM OPERATIONS AND MAINTENANCE

2.INTEGRATED PEST MANAGEMENT PLAN

3. MISCELLANEOUS PROVISIONS

4.ACCIDENTAL SPILL AND EMERGENCY RESPONSE PLAN

THE "DEVELOPMENT" AND THE VARIOUS COMPONENTS WHICH ARE REFERENCED IN THIS O&M PLAN ARE DESCRIBED ON THE SITE PLAN REFERENCED BELOW.

#### PROJECT NAME

HENRY GARNSEY CONDOMINIUMS

#### PROJECT LOCATION

20 MILFORD STREET

MEDWAY MA, 02053

#### OPERATOR NAME AND ADDRESS (OWNER OF PROPERTY AT TIME OF WORK)

METAL BEARD, INC. (CURRENT OWNER - FUTURE CONDOMINIUM ASSOC. T.B.D.)

16 MOWRY STREET

MENDON, MA 01756

#### REFERENCES

THIS O&M PLAN REFERENCES OTHER DOCUMENTS AS FOLLOWS:

SITE PLAN - PLANS ENTITLED "HENRY GARNSEY CONDOMINIUMS MEDWAY, MA SITE PLAN" WITH AN ORIGINAL DATE OF OCTOBER 7, 2024 (AS MAY BE AMENDED), AND PREPARED BY LEGACY ENGINEERING LLC, HEREINAFTER REFERRED TO AS THE "SITE PLAN".

STORMWATER REPORT - REPORT ENTITLED "STORMWATER REPORT FOR HENRY GARNSEY CONDOMINIUMS" PREPARED BY LEGACY ENGINEERING LLC WITH AN ORIGINAL DATE OF OCTOBER 7, 2024 (AS MAY BE AMENDED).

#### SITE DESCRIPTION

THE SITE CONSISTS OF SIX RESIDENTIAL UNITS LOCATED ON 1.56 ACRES OF LAND ON MILFORD STREET IN MEDWAY AND INCLUDES ALL APPURTENANT UTILITY SYSTEMS, LANDSCAPE AREAS, AND STORMWATER MANAGEMENT SYSTEMS. THOSE LAND AREAS ARE COLLECTIVELY REFERRED TO HEREIN AS THE "DEVELOPMENT."

#### SITE USAGE AND ACTIVITIES

SINGLE FAMILY RESIDENTIAL BUILDINGS AND ASSOCIATED APPURTENANCES.

#### PART 1: STORMWATER SYSTEM OPERATIONS AND MAINTENANCE

IN ORDER TO MAXIMIZE THE CONTINUED EFFECTIVENESS OF THE STORMWATER MANAGEMENT BMP'S FOR THE DEVELOPMENT, THE FOLLOWING OPERATION AND MAINTENANCE REQUIREMENTS APPLY TO ALL STORMWATER FACILITIES WITHIN THE EXTENTS OF THE DEVELOPMENT. THE STORMWATER FACILITIES ARE DEPICTED ON THE SITE PLAN AND ARE HEREINAFTER REFERRED TO AS THE "STORMWATER FACILITIES."

#### OPERATIONS AND MAINTENANCE RESPONSIBILITIES

THE OPERATOR OR ITS DESIGNEE SHALL BE RESPONSIBLE FOR IMPLEMENTING ALL OPERATIONS AND MAINTENANCE (O&M) RESPONSIBILITIES.

#### COMMENCEMENT OF OPERATIONS AND MAINTENANCE RESPONSIBILITIES

OPERATIONS AND MAINTENANCE TASKS SHALL BE COMMENCED ONCE EACH RESPECTIVE STORMWATER FACILITY IS FULLY CONSTRUCTED AND IS RECEIVING RUNOFF FROM THE DEVELOPMENT.

#### OPERATIONS AND MAINTENANCE TASKS

#### DEEP SUMP CATCH BASINS:

- 1.DEEP SUMP CATCH BASINS SHALL BE INSPECTED DAILY DURING CONSTRUCTION ACTIVITIES AND ALL SEDIMENTS AND DEBRIS SHALL BE REMOVED FOUR TIMES PER YEAR UNLESS THE OWNER CAN DETERMINE THROUGH RECORDED OBSERVATIONS THAT SEDIMENT ACCUMULATION DOES NOT WARRANT SUCH FREQUENT CLEANINGS. IF DEEP SUMP CATCH BASIN CLEANING OCCURS LESS THAN FOUR TIMES PER YEAR, CLEANING SHALL OCCUR WHEN TWO FEET OF SEDIMENTS HAVE ACCUMULATED IN THE SUMP AND AT LEAST ONCE PER YEAR.
- 2.SILT SACKS SHALL BE INSTALLED ON ALL CATCH BASINS THROUGHOUT THE TIME OF CONSTRUCTION.
- 3.ALL SEDIMENTS AND HYDROCARBONS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

#### SEDIMENT FOREBAYS:

- 1.SEDIMENT FOREBAYS SHALL BE INSPECTED AT LEAST FOUR TIMES PER YEAR TO INSURE PROPER OPERATION (DURING A STORM EVENT).
- 2.SEDIMENT FOREBAYS SHOULD BE MOWED AND ALL CLIPPINGS AND DEBRIS REMOVED AT LEAST TWICE PER YEAR. DEBRIS SHALL BE REMOVED AT MORE FREQUENT INTERVALS IF WARRANTED BY EXTREME WEATHER EVENTS.
- 3.SEDIMENT SHOULD BE REMOVED WHEN 3-INCHES OF SEDIMENT ACCUMULATES ANYWHERE IN THE
- 4.REMOVE WOODY VEGETATION, LEAVES, AND OTHER MATERIALS THAT WOULD AFFECT THE LIFE OF THE SYSTEM OR ITS OPERATIONS.

#### UNDERGROUND INFILTRATION FIELD:

- 1.PERFORM ALL PRETREATMENT BMP MAINTENANCE, STRUCTURAL AND NON-STRUCTURAL, AS REQUIRED HEREIN.
- 2.INSPECT THE INFILTRATION FIELD AT LEAST TWICE PER YEAR, APPROXIMATELY 2-4 DAYS AFTER A RAINFALL EVENT TO ENSURE THAT WATER IS NOT STILL IN THE FIELD (AS IT SHOULD HAVE INFILTRATED INTO UNDERLYING SOILS BY THEN). SHOULD THE INFILTRATION FIELD FAIL TO INFILTRATE WATER SUFFICIENTLY, THE FIELD SYSTEM SHALL BE EXCAVATED AND REPLACED IN ACCORDANCE WITH THE ORIGINAL DESIGN.

#### RAIN GARDENS:

- 1.MAINTAIN PLANT HEALTH YEAR-ROUND INCLUDING PRUNING AND WATERING.
- 2.INSPECT RAIN GARDENS MONTHLY FOR TRASH BUILDUP AND ERODED AREAS. CORRECT AS NEEDED.
- 3. REMOVE AND REPLACE DEAD VEGETATION EACH SPRING.
- 4.INSPECT THE RAIN GARDEN AT LEAST TWICE PER YEAR, APPROXIMATELY 2-4 DAYS AFTER A RAINFALL EVENT TO ENSURE THAT WATER IS NOT STILL IN THE FACILITY (AS IT SHOULD HAVE INFILTRATED INTO UNDERLYING SOILS BY THEN). SHOULD THE RAIN GARDEN FAIL TO INFILTRATE WATER SUFFICIENTLY, THE VEGETATION AND MEDIA SHALL BE EXCAVATED AND REPLACED IN ACCORDANCE WITH THE ORIGINAL

#### STORMWATER PIPES, INLETS AND OUTFALLS:

- 1. ALL STORMWATER INLETS AND OUTFALLS SHALL BE INSPECTED TWICE PER YEAR.
- 2.TRASH, LEAVES, DEBRIS AND SEDIMENT SHALL BE REMOVED FROM INLETS AND OUTFALLS AS NEEDED

- TO KEEP THEM FREE FLOWING.
- 3.IF INSPECTIONS INDICATE THAT STORMWATER PIPELINES HAVE BECOME PARTIALLY OBSTRUCTED WITH TRASH, LEAVES, DEBRIS OR SEDIMENT, THE PIPELINES SHALL BE CLEANED BY WATER JET TRUCK AND THE OBSTRUCTIONS REMOVED AND DISPOSED OF.

THE VARIOUS OPERATIONS AND MAINTENANCE SCHEDULE REQUIREMENTS LISTED ABOVE MAY BE REDUCED IN FREQUENCY BY APPROVAL FROM THE TOWN. SHOULD SUCH PERMISSION BE DESIRED, THE OPERATOR SHALL PROVIDE DOCUMENTATION OF ACTUAL ON-SITE MAINTENANCE OBSERVATIONS BY A QUALIFIED SOURCE (ENGINEER OR OTHER QUALIFIED PERSON MEETING THE APPROVAL OF THE TOWN) DEMONSTRATING THAT THE PARTICULAR STORMWATER BMP IN QUESTION DOES NOT WARRANT THE SPECIFIED FREQUENCY OF INSPECTION OR MAINTENANCE ACTIVITIES.

#### REPORTING REQUIREMENTS

THE FOLLOWING DOCUMENTATION SHALL BE SUBMITTED NO LATER THAN DECEMBER 3151 OF EACH CALENDAR YEAR TO THE TOWN:

- 1.A STATEMENT, SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE OPERATOR INDICATING THAT THE REQUIREMENTS OF THIS O&M PLAN WERE PERFORMED DURING THE PREVIOUS CALENDAR YEAR. WHERE REQUIREMENTS WERE NOT MET, A SCHEDULE FOR THEIR COMPLETION SHALL BE PROVIDED AND A FOLLOW-UP STATEMENT SUBMITTED WHEN COMPLETE.
- 2.A LIST OF THE MAINTENANCE ACTIVITIES PERFORMED ALONG WITH THE APPROXIMATE DATE OF THE
- 3.A LIST OF THE INSPECTIONS PERFORMED ALONG WITH A STATEMENT BY EACH INSPECTOR SUMMARIZING THE RESULTS OF THE INSPECTIONS PERFORMED IN ACCORDANCE WITH THIS O&M PLAN.
- 4.COPIES OF APPURTENANT DOCUMENTATION SUPPORTING THE COMPLETION OF THE O&M RESPONSIBILITIES SUCH AS COPIES OF CONTRACTS AND/OR RECEIPTS WITH PARTIES ENGAGED TO PERFORM MAINTENANCE AND INSPECTION SERVICES.
- 5.A NOTATION REGARDING WHETHER THERE HAS BEEN ANY CHANGE IN THE NAME AND OR CONTACT INFORMATION FOR THE OPERATOR.

#### PUBLIC SAFETY FEATURES

THE STORMWATER SYSTEM HAS BEEN DESIGNED TO SAFELY COLLECT SURFACE RUNOFF FROM DEVELOPED AREAS (AS DESCRIBED ON THE SITE PLAN AND STORMWATER REPORT) BY PROVIDING COLLECTIONS SYSTEMS AT REGULAR INTERVALS TO PREVENT SURFACE FLOODING AND TO TREAT THAT RUNOFF IN ACCORDANCE WITH THE PROVISIONS OF THE MASSACHUSETTS STORMWATER MANAGEMENT STANDARDS AND HANDBOOK.

#### PART 2: INTEGRATED PEST MANAGEMENT PLAN

THE DEVELOPMENT SHALL ADHERE TO THIS IPM IN PERPETUITY, UNLESS THE CONSERVATION COMMISSION RELEASES THE OPERATOR FROM THIS OBLIGATION IN WRITING.

#### LAWN PREPARATION AND INSTALLATION

- THE FOLLOWING METHODS SHALL BE EMPLOYED FOR ALL LAWN INSTALLATION AND REPLACEMENTS.
- > TOPSOIL INSTALLED IN LAWN AREAS SHALL BE INSTALLED TO A MINIMUM THICKNESS OF 4-INCHES. INSTALLATION SHALL BE IN A MANNER THAT MINIMIZES COMPACTION OF THE TOPSOIL. TOPSOIL SHOULD INCLUDE A MINIMUM ORGANIC CONTENT OF 18% IN THE TOP 4-INCHES. IN AREAS WHERE EXISTING TOPSOIL IS LIMITED OR NON-EXISTENT DUE TO BEDROCK OR HARDPAN, 6-24 INCHES OF SANDY LOAM TOPSOIL SHOULD BE SPREAD WITH A MINIMUM 18% ORGANIC CONTENT IN THE TOP 6-INCHES.
- > TOPSOIL SHALL BE TESTED FOR PH, ORGANIC CONTENT AND MINERAL CONTENT INCLUDING CALCIUM, MAGNESIUM, POTASSIUM AND SODIUM AT THE TIME OF INSTALLATION AND SUPPLEMENTS SHALL BE ADDED AS RECOMMENDED. LIME SHALL BE ADDED AT THE RATES RECOMMENDED BY THE SOIL TEST LAB TO BRING TOPSOIL PH WITHIN RECOMMENDED LEVELS.
- > SEEDING SHALL INCLUDE AT LEAST THREE OF THE FOLLOWING TURF TYPES: FINE FESCUE, KENTUCKY BLUEGRASS, PERENNIAL RYE GRASS, AND TALL FESCUE.
- > FERTILIZER APPLICATION AT THE TIME OF SEEDING SHALL NOT EXCEED 0.5 POUNDS PER 1,000 SQUARE FEET AND SHALL BE EITHER ORGANIC OR MINERAL.
- > DURING THE PERIOD OF TURF ESTABLISHMENT (1-2 SEASONS AFTER SEEDING), UP TO TWO BROADLEAF WEED CONTROL APPLICATIONS PER YEAR MAY BE APPLIED TO THE ENTIRE LAWN AREA TO ENCOURAGE THE ESTABLISHMENT OF THE TURF AND PREVENT WEED INFESTATIONS.

#### MECHANICAL LAWN CARE STANDARDS

- THE FOLLOWING MAINTENANCE GUIDELINES SHALL BE GENERALLY APPLIED TO LAWN CARE, ALTHOUGH SPECIFIC ADHERENCE TO EVERY STANDARD IS NOT NECESSARY. ADHERENCE TO THESE MECHANICAL LAWN CARE STANDARDS WILL ENCOURAGE THE DEVELOPMENT OF A THICK, DENSE, AND HEALTHY TURF SYSTEM WHICH WILL ULTIMATELY RESULT IN FEWER LAWN CARE TREATMENT REQUIREMENTS.
- > LAWN CUTTING HEIGHT SHOULD BE ADJUSTED ACCORDING TO THE SEASON USING THE FOLLOWING AS
- **GUIDANCE**: o MAY - JUNE: 2.5" CUT HEIGHT
- o JULY AUGUST: 3-3.5" CUT HEIGHT
- o SEPTEMBER: 2.5-3" CUT HEIGHT O OCTOBER - NOVEMBER: 2" CUT HEIGHT
- > LAWN MOWING SHOULD BE AT SUFFICIENT FREQUENCY SUCH THAT NOT MORE THAN 1/3 OF THE LEAF BLADE HEIGHT IS CUT OFF.
- > AERATE THE LAWN GENERALLY ONCE PER YEAR IN THE MID-SUMMER TO MID-FALL PERIOD. A SECOND
- AERATION IN THE SPRING MAY BE APPROPRIATE FOR COMPACT SOILS CONDITIONS. > DETHATCHING IS GENERALLY NOT NECESSARY UNLESS THE THATCH LAYER EXCEED ¾".

#### CORE LAWN CARE TREATMENT PROGRAM

- EACH LAWN SHALL ADHERE TO THE FOLLOWING LAWN CARE PRACTICES AND RESTRICTIONS:
- > A SOIL TEST SHALL BE CONDUCTED AT LEAST ONCE EVERY TWO YEARS TO EVALUATE TOPSOIL PH LEVEL AND THE NECESSARY APPLICATION OF LIME WILL BE MADE TO BRING SOIL PH WITHIN RECOMMENDED LEVELS. RECOMMENDED TOPSOIL PH LEVELS ARE BETWEEN 6.5 AND 6.8. SOILS TESTING SHALL ALSO INCLUDE ORGANIC CONTENT, MINERAL CONTENT, INCLUDING CALCIUM, MAGNESIUM, POTASSIUM AND SODIUM, TOTAL CATION EXCHANGE CAPACITY, AND HYDROGEN. IDEAL BASE SATURATION PERCENTAGES FOR THESE PARAMETERS ARE AS FOLLOWS:
- o CALCIUM: 68*-70*% o MAGNESIUM: 15-20% o POTASSIUM: 4.5-6%
- o SODIUM: <3% o OTHER BASES: 4-8% o HYDROGEN: 5-10%
- > FERTILIZER APPLICATION SHALL BE AS-NEEDED BASED ON THE RESULTS OF THE LATEST SOILS TEST, PLANT HEALTH, ROOTING CHARACTERISTICS, GROWTH RATE DESIRED, AND SEASON. FERTILIZER APPLICATION SHALL NOT EXCEED FIVE TIMES PER CALENDAR YEAR AND THE TOTAL QUANTITY OF FERTILIZER APPLIED IN ANY GIVEN YEAR SHALL NOT RESULT IN THE APPLICATION OF MORE THAN THREE POUNDS OF NITROGEN PER 1,000 SQUARE FEET WITH NOT MORE THAN ONE POUND OF NITROGEN APPLIED PER 1,000 SQUARE FEET IN ANY SINGLE APPLICATION. NITROGEN, IN THE FORM OF FERTILIZER, SHOULD GENERALLY BE APPLIED IN SMALL INCREMENTS TO AVOID NITRATE LEACHATE AND RUNOFF, UNDESIRED SPRITS IN GROWTH, AND INCREASE IN PEST POPULATION. GRANULAR ORGANIC AND/OR ORGANIC/SYNTHETIC SLOW RELEASE FERTILIZERS SHALL BE USED. THE OPTIMAL USE OF FERTILIZERS IS TO CREATE AN ORGANIC FOUNDATION FOR SOIL HEALTH AND DEVELOPMENT WHICH PROVIDES SUFFICIENT NUTRIENTS FOR CONTROLLED PLANT GROWTH AND AVOIDING SUBSURFACE AND SURFACE NUTRIENT LOSS TO GROUNDWATER OR STORMWATER RUNOFF.
- > EXCEPT AS NOTED BELOW, ONLY ONE APPLICATION OF CRAB-GRASS PREVENTION PRODUCT IS PERMITTED PER YEAR DURING MARCH OR APRIL, AND ONLY IN PORTIONS OF THE LAWN IN FULL SUN WHICH ARE PRONE TO SUCH INFESTATIONS. THE USE OF CORN GLUTON
- (ORGANIC CRAB-GRASS CONTROL METHOD) IS PERMITTED TWICE PER YEAR.

> AT THE TIME OF FERTILIZER APPLICATION, ANY ACCIDENTAL SPILLAGE ONTO IMPERVIOUS SURFACES SUCH AS DRIVEWAYS, WALKWAYS, PATIOS, AND STREETS SHALL BE SWEPT UP AND EITHER APPLIED TO THE LAWN OR REMOVED FROM THE SITE.

#### OPTIONAL MAINTENANCE PRACTICES TO BE APPLIED AS NEEDED

- > WHERE TOPSOIL TESTING DEMONSTRATES A DEFICIENCY, MINERAL OR ORGANIC MICRO-NUTRIENTS MAY BE ADDED TO ACHIEVE RECOMMENDED LEVELS.
- > GENERALLY, CHEMICAL PESTICIDES SHOULD BE USED AS A FINAL OPTION AND THE MINIMUM AMOUNT NECESSARY TO ACHIEVE THE DESIRED RESULT SHOULD BE USED. NON CHEMICAL MEANS OF PEST CONTROL SHOULD BE TRIED FIRST. IN THE EVENT OF SUSPECTED PEST PROBLEM, A VISUAL INSPECTION SHALL FIRST BE MADE BY QUALIFIED PERSONNEL TO CONFIRM THE PRESENCE OF STRESSED VEGETATION, WILDLIFE ACTIVITY, PATHOGENS, AND OTHER SIMILAR INDICATORS. SHOULD A PEST PROBLEM BE IDENTIFIED, THE CONDITION SHALL BE MONITORED PERIODICALLY SUCH THAT IF THE PROBLEM SUBSIDES, TREATMENT METHODS CAN STOP AS SOON AS POSSIBLE THEREAFTER.
- > ROOT BIO-STIMULANTS FROM ORGANIC SOURCES (EXAMPLES INCLUDE ROOTS, ORGANICA, OR PHC TYPE PRODUCTS, WHICH ARE BRAND NAMES AND WHICH MAY CHANGE DEPENDING ON MARKET CONDITIONS) MAY BE USED AS NEEDED.
- > COMPOST TOPDRESSING (1/8" 1/4" DEPTH) MAY BE APPLIED AS NEEDED.
- > SPOT TREATMENT OF WEEDS AND CRABGRASS MAY BE IMPLEMENTED AT ANY TIME AS NEEDED, BUT ONLY ON A SPOT-TREATMENT BASIS AND ONLY TO THOSE AREAS AFFECTED.
- > SPOT TREATMENT FOR TURF DISEASE MAY BE IMPLEMENTED AT ANY TIME AS NEEDED, BUT ONLY ONE A SPOT-TREATMENT BASIS AND ONLY TO THOSE AREAS AFFECTED.
- > GRUB CONTROL PRODUCTS AND SIMILAR PRODUCTS MAY BE APPLIED TO LOCALIZED AREAS ONLY WHERE GRUB ACTIVITY IS EVIDENT. GRUB CONTROL MAY BE APPLIED WHEN GRUB POPULATIONS REACH AN AVERAGE OF 8 -10 GRUBS PER SQUARE FOOT OR IF THE PLANT/LAWNS ARE SHOWING SIGNS OF STRESS FROM GRUB ACTIVITY.
- > ONE APPLICATION OF IMIDACLOPRID (MERIT) OR SIMILAR PRODUCTS PER YEAR IS PERMITTED DURING JUNE AND JULY IN AREAS WHERE GRUB ACTIVITY HAS HISTORICALLY OCCURRED.
- > PESTICIDES WHICH ARE CLASSIFIED FOR RESTRICTED USE PURSUANT TO 333 CMR MAY ONLY BE APPLIED BY PROPERLY LICENSED OR CERTIFIED PERSONNEL OR BY INDIVIDUALS UNDER THE DIRECT ON-SITE SUPERVISION OF PROPERLY LICENSED OR CERTIFIED PERSONNEL IN ACCORDANCE WITH 333 CMR.

#### PART 3: MISCELLANEOUS PROVISIONS

#### GOOD HOUSEKEEPING CONTROLS

- THE FOLLOWING GOOD HOUSEKEEPING MEASURES WILL BE IMPLEMENTED IN THE DAY-TO-DAY OPERATION OF THE DEVELOPMENT:
- 1. THE SITE WILL BE MAINTAINED IN A NEAT AND ORDERLY MANNER.
- 2.FERTILIZERS AND PESTICIDE APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER
- 3.ALL WASTE MATERIALS FROM THE DEVELOPMENT WILL BE COLLECTED IN DUMPSTERS AND REMOVED FROM THE SITE BY PROPERLY LICENSED DISPOSAL COMPANIES.

#### MANAGEMENT OF DEICING CHEMICALS AND SNOW

- MANAGEMENT OF ON-SITE SNOW WILL BE AS FOLLOWS: 1.THE SITE SHALL BE PLOWED AS NEEDED TO MAINTAIN SAFE DRIVING CONDITIONS. SNOW WILL BE STORED IN WINDROWS ALONG PAVEMENT EDGES AND SHALL BE PILED IN LANDSCAPE STRIPS AS
- NEEDED. 2.SNOW WILL NOT BE PLOWED INTO PILES WHICH BLOCK OR OBSTRUCT STORMWATER MANAGEMENT
- 3. SNOW WILL NOT BE PLOWED INTO PILES AT ROADWAY INTERSECTIONS SUCH THAT IT WOULD OBSTRUCT VISIBILITY FOR ENTERING OR EXITING VEHICLES.
- 4.DEICING CHEMICALS APPLICATION WILL BE AS LITTLE AS POSSIBLE WHILE PROVIDE A SAFE ENVIRONMENT FOR VEHICULAR OPERATION AND FUNCTION.
- 5.AT SUCH TIME AS SNOW ACCUMULATIONS EXCEED THE CAPACITY OF ON-SITE STORAGE AREAS, SUCH EXCESS SNOW SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH STATE, LOCAL, AND FEDERAL LAWS AND REGULATIONS.

#### OPERATOR TRAINING

THE OPERATOR IS RESPONSIBLE FOR PROVIDING TRAINING FOR THE STAFF THAT WILL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THIS O&M PLAN. SUCH TRAINING SHALL OCCUR AT LEAST ONCE ANNUALLY.

#### ILLICIT DISCHARGES

THE OPERATOR SHALL NOT ALLOW NON-STORMWATER DISCHARGES INTO THE DEVELOPMENT'S STORMWATER SYSTEM. ANY DISCOVERED NON-STORMWATER DISCHARGES INTO THE DEVELOPMENT'S STORMWATER SYSTEM SHALL BE IMMEDIATELY DISCONNECTED.

#### ESTIMATED OPERATIONS AND MAINTENANCE BUDGET

IT IS ESTIMATED THAT THE REGULAR ANNUAL MAINTENANCE TASKS DESCRIBED HEREIN WILL COST \$600 PER YEAR (2024 VALUE).

#### PART 4: ACCIDENTAL SPILL AND EMERGENCY RESPONSE PLAN

IN THE EVENT OF AN ACCIDENT WITHIN THE BOUNDARIES OF THE SITE, WHERE SIGNIFICANT GASOLINE OR OTHER PETROLEUM PRODUCTS OR OTHER HAZARDOUS MATERIALS ARE RELEASED, THE FOLLOWING PROCEDURE SHALL BE FOLLOWED IN THE ORDER NOTED.

- 1.AS QUICKLY AS POSSIBLE, ATTEMPT TO BLOCK THE NEAREST STORMWATER CATCH BASINS IF ON A ROADWAY, OR IF IN PROXIMITY TO WETLANDS, CREATE A BERM OF SOIL DOWNSLOPE OF THE SPILL. 2.IMMEDIATELY, AND WHILE THE CONTAINMENT MEASURES ARE IMPLEMENTED AS DESCRIBED ABOVE,
- NOTIFY THE FOLLOWING GOVERNMENTAL ENTITIES AND INFORM THEM OF THE TYPE OF SPILL THAT OCCURRED:
- O MEDWAY FIRE DEPARTMENT AT 911,
- O MEDWAY BOARD OF HEALTH AT 508-533-3206, o MEDWAY CONSERVATION COMMISSION AT 508-533-3292,
- o MASS. DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CENTRAL REGION AT (508) 792-7650
- (ADDRESS IS 8 NEW BOND STREET, WORCESTER, MA 01606), AND
- O NATIONAL RESPONSE CENTER (NRC) AT (800) 424-8802 (FOR SPILLS THAT REQUIRE SUCH NOTIFICATION PURSUANT TO 40 CFR PART 110, 40 CFR PART 117, AND 40 CR PART 302).
- 3.ONCE THE VARIOUS EMERGENCY RESPONSE TEAMS HAVE ARRIVED AT THE SITE AND IF THE SPILL OCCURS ON A LOT, THE OWNER SHALL FOLLOW THE INSTRUCTIONS OF THE VARIOUS GOVERNMENTAL ENTITIES, WHICH MAY INCLUDE THE FOLLOWING:
- > A CLEAN UP FIRM MAY NEED TO BE IMMEDIATELY CONTACTED.
- > IF THE HAZARDOUS MATERIALS HAVE ENTERED THE STORMWATER SYSTEM, PORTIONS OF IT MAY NEED TO BE CLEANED AND RESTORED PER THE DEP. ALL SUCH ACTIVITIES SHALL BE AS SPECIFIED BY THE



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OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

#### ZONING DISTRICT

VILLAGE-RESIDENTIAL (VR) MULTI-FAMILY HOUSING OVERLAY DISTRICT (MHOD) RABBIT HILL NATIONAL REGISTER HISTORIC DISTRICT

ASSESSORS PARCEL 47-113

DEED REFERENCE

BOOK 41922, PAGE 504

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REGISTERED LAND SURVEYOR
DATE APPROVED:
DATE ENDORSED:

MEDWAY PLANNING & ECONOMIC DEVELOPMENT BOARD

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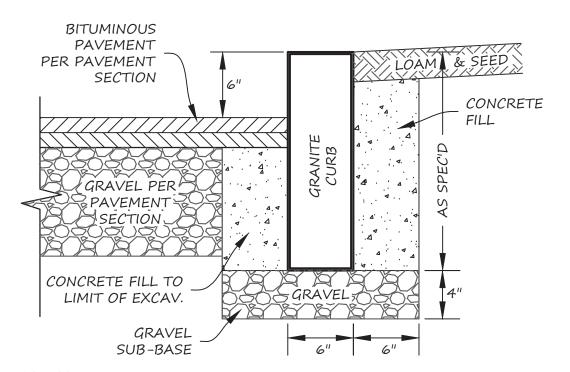
508-376-8883(o) C-8

730 MAIN STREET

SUITE 2C

MILLIS, MA 02054

ENGINEERING



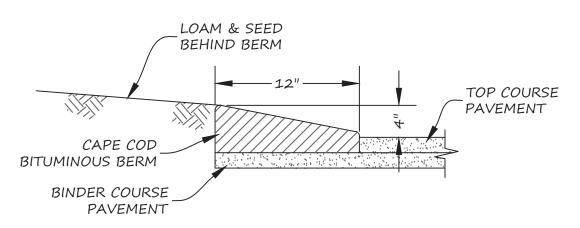
#### NOTES:

1. CONCRETE TO BE 4,000 PSI.

2. ALL RADII 50' AND SMALLER TO BE CONSTRUCTED USING CURVED

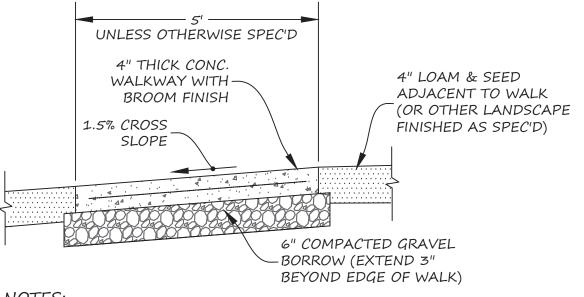
#### VERTICAL GRANITE CURB DETAIL

(NO SCALE)



#### CAPE COD BERM DETAIL

(NO SCALE)

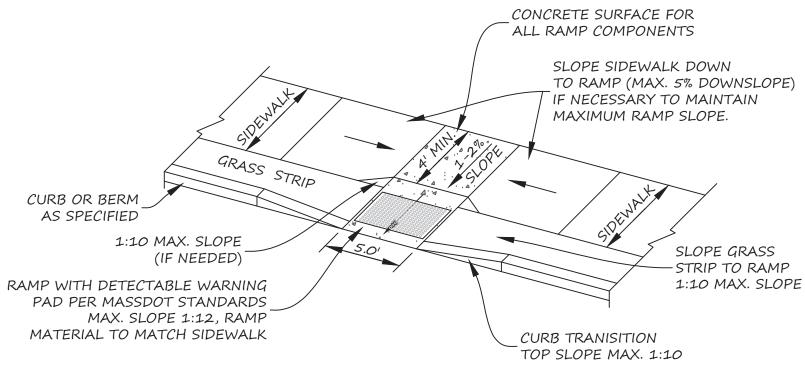


#### NOTES:

- 1. ALL ASPECTS OF WALKWAY/SIDEWALK CONSTRUCTION SHALL BE IN
- FULL COMPLIANCE WITH 521 CMR. 2. 4,000 PSI CONCRETE MIX
- 3. PROVIDE CONTROL JOINTS EVERY 5' MIN.
- 4. PROVIDE PREMOLDED JOINT FILL EVERY 30' MIN. 5. PROVIDE 6x6 W1.4 x W1.4 - WELDED WIRE REINFORCEMENT MESH AT
- MIDDLE OF SLAB THICKNESS.

# CEMENT CONCRETE WALK/SIDEWALK

(NO SCALE)



JOINTS WITH

CONCRETE PAVER

- MODULAR BLOCKS

(POROUS SYSTEM)

EDGE RESTRAINT WITH

GALVANIZED SPIKES

COMPACTED SUBGRADE

FREE OF ORGANICS AND

OTHER UNSUITABLES

POROUS MEDIA

JOINTS

MIN. 8" THICK LAYER

NOTE: PAVER MANUFACTURER, MODEL AND COLOR AT

APPLICANT'S DISCRETION BUT MUST BE A POROUS PAVER

CONCRETE PAVER DETAIL

NOT TO SCALE

OF COMPACTED 3"

CRUSHED STONE

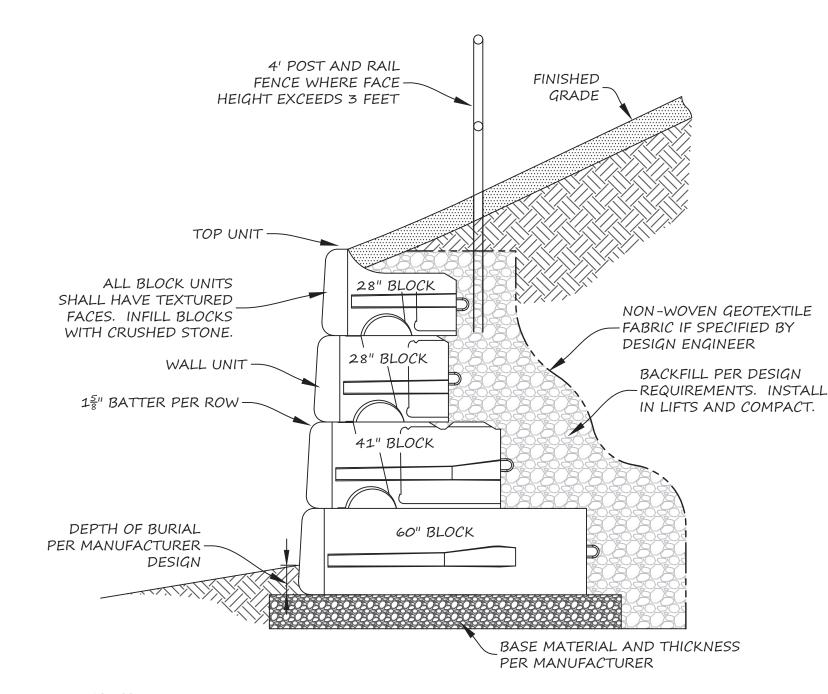
1.5" THICK 를"

STONE BED &-

1. RAMP AND SIDEWALK SHALL BE CONSTRUCTED IN STRICT COMPLIANCE WITH ADA REGULATIONS. 2. THIS DETAIL DOES NOT SPECIFY CURBING OR SIDEWALK REQUIREMENTS, BUT ONLY ACCESSIBLE (HANDICAP) RAMP SPECIFICATIONS. REFER TO APPLICABLE DETAILS FOR ROADWAY, CURBING, SIDEWALK SPECIFICATIONS.

# ACCESSIBLE RAMP DETAIL

NOT TO SCALE



#### NOTES:

1. RETAINING WALL SHALL BE OF THE SO-CALLED "BIG-BLOCK" GRAVITY WALL SYSTEMS. THE SYSTEM DEPICTED ON THIS PLAN IS THE "REDI ROCK" SYSTEM. ALTERNATIVE SYSTEMS MAY BE ALLOWED IF APPROVED BY THE TOWN ENGINEER.

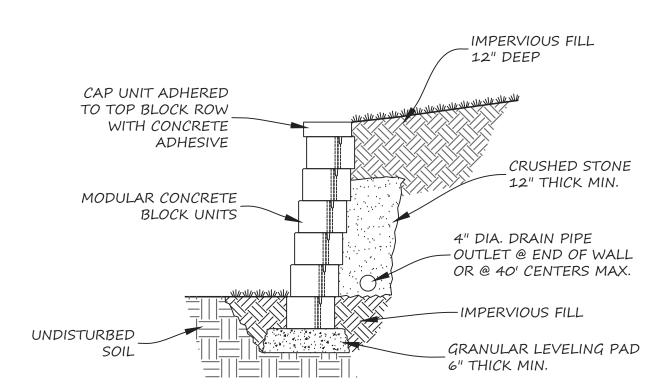
2. EXPOSED WALL HEIGHTS OF GREATER THAN FOUR FEET REQUIRE A BUILDING PERMIT

AND DESIGN BY A STRUCTURAL ENGINEER. 3. DEPICTED BLOCK CONFIGURATION IS APPROXIMATE ONLY AND SUBJECT TO CHANGE

BASED ON STRUCTURAL DESIGN.

#### "LARGE BLOCK" WALL STANDARD DETAIL

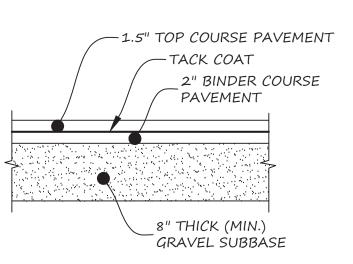
NOT TO SCALE



NOTES: 1. SMALL BLOCK UNITS SHALL BE THE SQUARE FOOT PRODUCT BY VERSA-LOK OR APPROVED EQUAL. WALL HEIGHT WITHOUT REINFORCEMENT SHALL BE LIMITED TO 3.5' EXPOSED FACE.

- 2. WALL HEIGHTS OVER FOUR FEET, INCLUDING FOOTING, MAY REQUIRE A BUILDING PERMIT AND/OR STRUCTURAL DESIGN. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY NECESSARY BUILDING PERMITS AND FOR PROVIDING STRUCTURAL WALL DESIGN MEETING THE REQUIREMENTS OF THE MASSACHUSETTS BUILDING CODE, AS DEEMED APPLICABLE BY THE BUILDING
- 3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.

TYPICAL "SMALL BLOCK" RETAINING WALL NOT TO SCALE





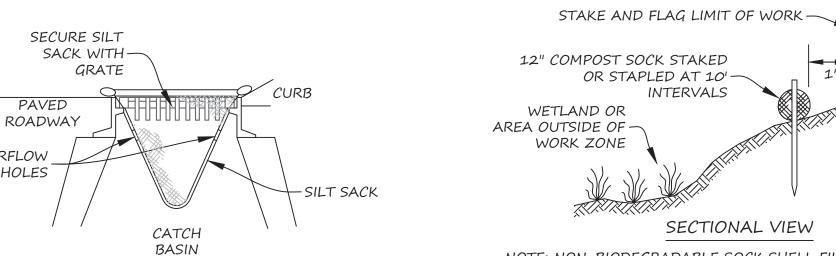
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PAVED

**OVERFLOW** 

**HOLES** 

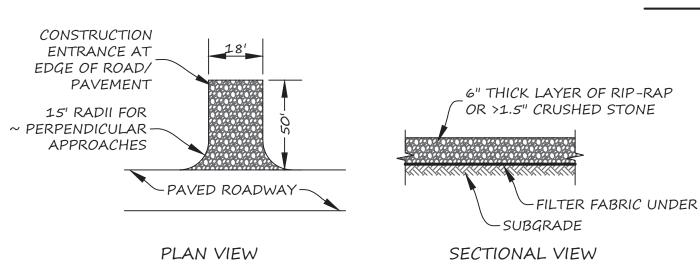


CATCH BASIN SILT SACK DETAIL NOT TO SCALE

NOTE: NON-BIODEGRADABLE SOCK SHELL FILLED WITH COMPOST MEDIA. JOINTS SHALL BE OVERLAPPED BY AT LEAST TWO FEET. ORANGE SNOW FENCE IS ONLY NEEDED IF THERE IS EVIDENCE OF THE COMPOST SOCK BEING BURIED BY CONSTRUCTION ACTIVITIES.

#### EROSION CONTROL DETAIL (COMPOST SOCK)

NOT TO SCALE



#### NOTES:

- 1. ENTRANCE SHALL BE INSTALLED BEFORE ANY EXCAVATION WORK OCCURS
- 2. ENTRANCE SHALL BE MAINTAINED IN GOOD CONTITION UNTIL A PAVED DRIVEWAY IS INSTALLED. REPLACE ENTRANCE IF FILLED WITH SOILS OR IF SOILS ARE BEING TRACKED ONTO ADJACENT ROADWAYS.

#### CONSTRUCTION ENTRANCE DETAIL NOT TO SCALE

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT VILLAGE-RESIDENTIAL (VR) MULTI-FAMILY HOUSING OVERLAY DISTRICT (MHOD) RABBIT HILL NATIONAL REGISTER HISTORIC DISTRICT

ASSESSORS PARCEL 47-113

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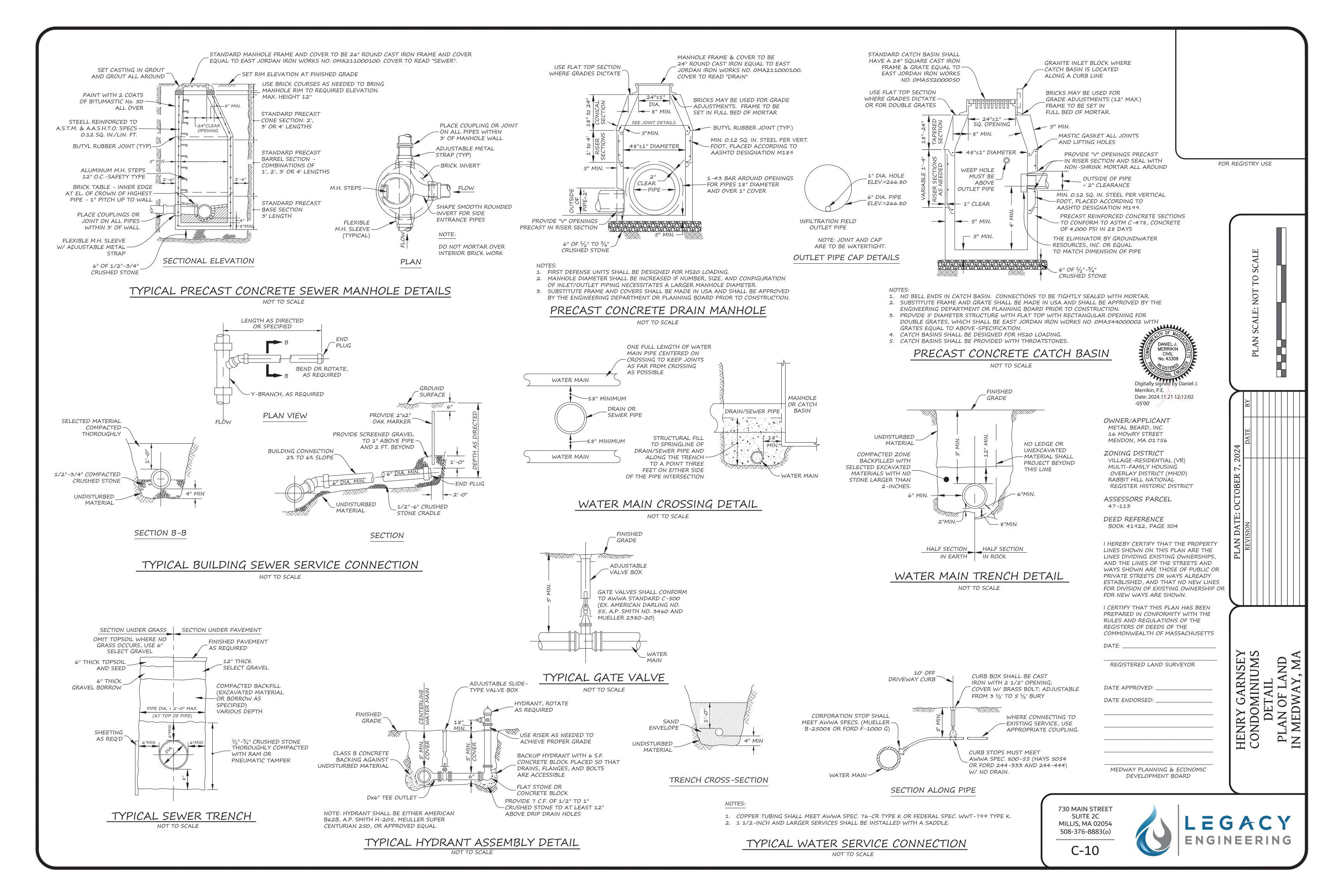
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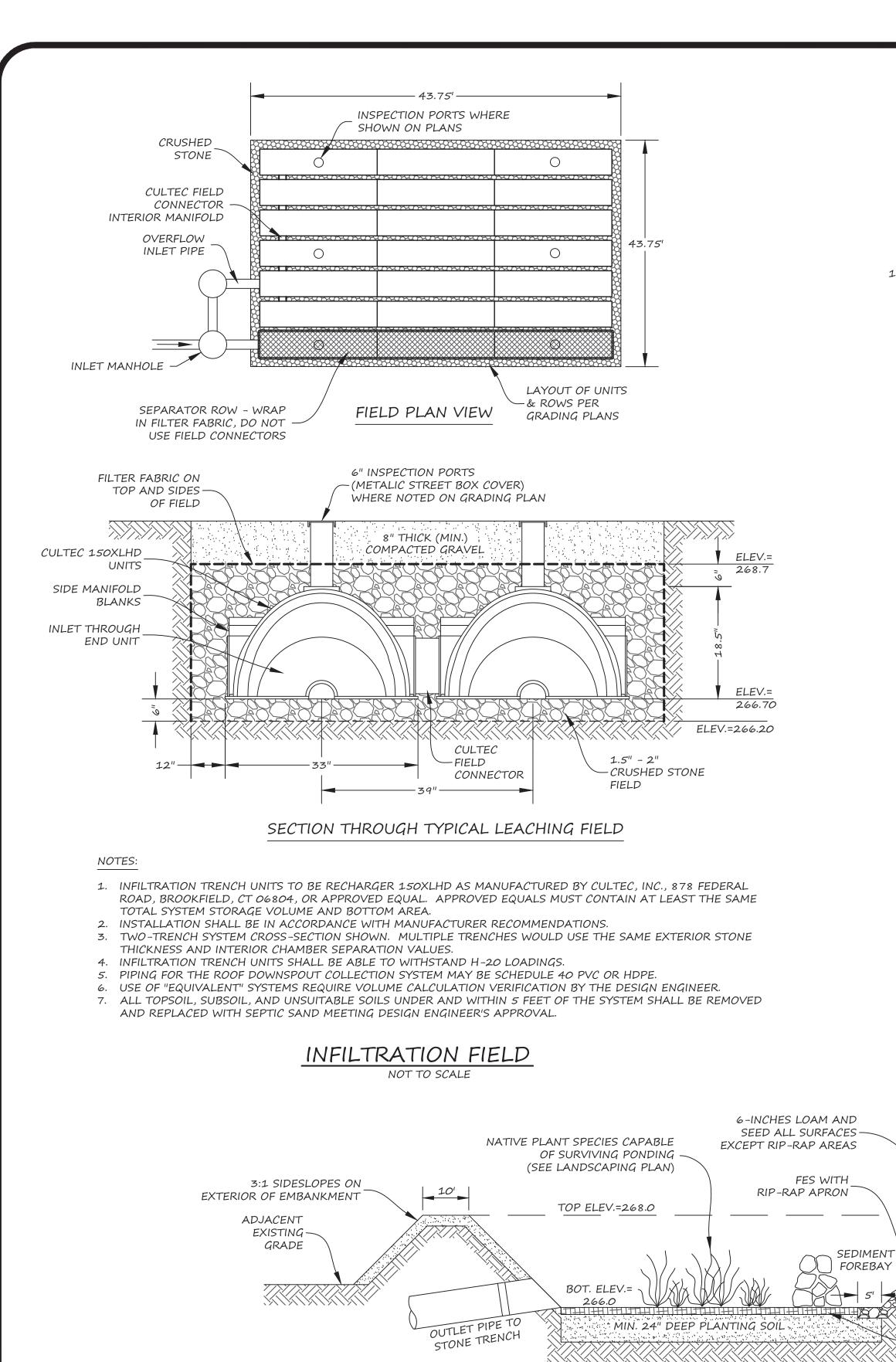
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730 MAIN STREET SUITE 2C MILLIS, MA 02054 508-376-8883(o)

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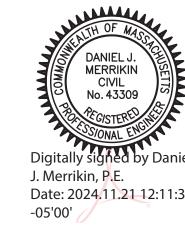
12" BAR GRATING -ISOMETRIC VIEW PLAN VIEW (2) 8" DIA. OUTLETS SLOPED BOTTOM (0.005) SIDE-SECTION VIEW END SECTION VIEW

1. CONCRETE SHALL BE 4,000 PSI AFTER 28 DAYS.

2. SHALL CONFORM TO H-20 LOADINGS.

3. SHALL BE POWER DRAIN S300K BY ACO DRAIN OR EQUAL

#### TRENCH DRAIN DETAIL NOT TO SCALE



2" THICK LAYER − OF 0.75"-1.5" CRUSHED STONE

6"

END SECTION VIEW

STONE TRENCH DRAIN

NOT TO SCALE

**FINISHED** 

GRADE

**OUTLET PIPE** 

-FROM RAIN

GARDEN #1

FINISHED GRADE

OR PAVEMENT

3/4" CRUSHED

4 MIL. FILTER

12" SCH. 40

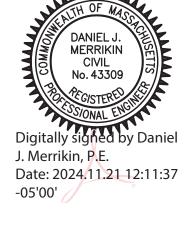
PERF. PVC PIPE-

SLOPE = 0.00

FABRIC

STONE

6-INCHES LOAM AND







OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

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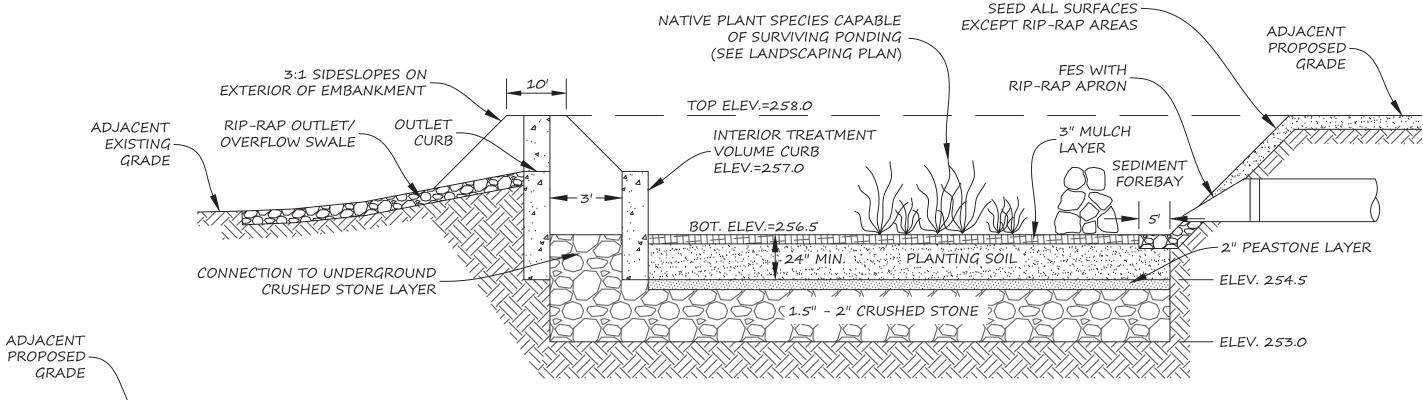
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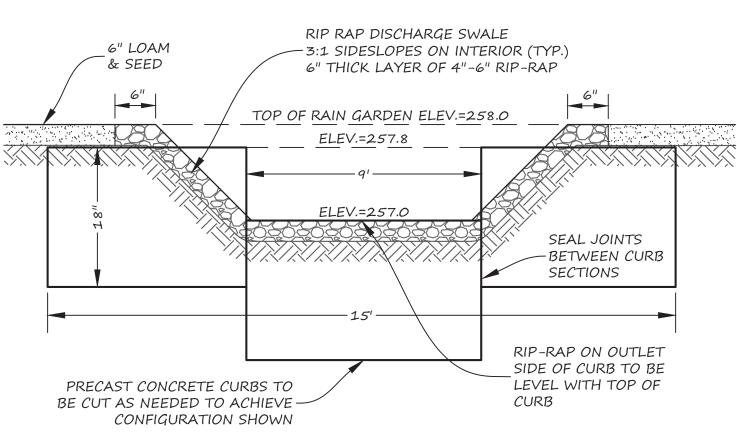
730 MAIN STREET SUITE 2C **MILLIS, MA 02054** 508-376-8883(o)

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#### RAIN GARDEN #2 CROSS-SECTION



RAIN GARDEN #2 CURB OUTLET AND RIP-RAP SWALE DETAIL

### PLANTING LIST:

//:<//:>//:<//:>/

SOIL NOTES:

3" MULCH

RAIN GARDEN #1 CROSS-SECTION

SEE GRADING SHEETS AND PROFILE SHEETS FOR SIZE OF INLETS AND OUTLETS,

REMOVED PRIOR TO CONSTRUCTION. FILL MATERIALS UNDER THE FACILITY BOTTOM

SHALL BE CLEAN GRAVEL. FILL FOR BERMS MAY BE SAND, LOAMY SAND OR SANDY

UNSUITABLE SOILS. BERM CORE SHALL CONSIST OF ORDINARY BORROW INSTALLED

OUTLET STRUCTURE SPECIFICATIONS, SLOPE OF SIDESLOPES, AND OTHER

2. ALL TOPSOIL AND SUBSOIL BELOW THE BOTTOM OF THE FACILITY SHALL BE

3. BERM AREAS SHALL BE REMOVED OF ALL TOP AND SUB-SOIL AND OTHER

DIMENSIONAL REQUIREMENTS FOR EACH FACILITY.

IN 12-INCH LIFTS TO A MINIMUM 93% PROCTOR DENSITY.

LOAM. (TITLE V CLASSIFICATIONS).

SELECT 2 OR MORE VARIETIES:

THE PLANTING SOIL MIX IS TO BE

AND 30-40% COMPOST.

APPROXIMATELY 40% SAND, 20-30% TOPSOIL,

SOILS ARE TO BE FREE FROM STONES, STUMPS,

COVER PLANTING SOIL WITH 2-3 INCHES OF

AGROSTIS ALBA

HARDWOOD MULCH.

- ANDROPOGON GERARDII ARONIA ARBUTIFOLIA
- HAMAMELIS VIRGINIANA
- HYPERICUM DENSIFLORUM
- VIBURNUM DENTATUM

NOT TO SCALE

RAIN GARDEN DETAILS



Available OPTIONS:

- Shake style siding in Gables with horizontal trim band.
- Returned Roof wrap around gables or continue across in lieu of trim band.





Provide gutters and downspouts to direct roof runoff away from the foundation.

Provide well drained window wells at cellar sashes below grade.

All NEW framing and construction to be in accordance with MA Code 780 CMR 9th Edition for 1 & 2 Family Residential Construction. While good faith effort has been made to incorporate as much of that information as practical in these documents, human error or omission is possible. It is the licensed builder's responsibility to review these documents prior to construction and to proceed in accordance with applicable codes.

Duplex Perspective

PROJECT DESIGNED FOR:

Henry Garnsey Condominiums
20 Milford Street
Medway MA

DATE:

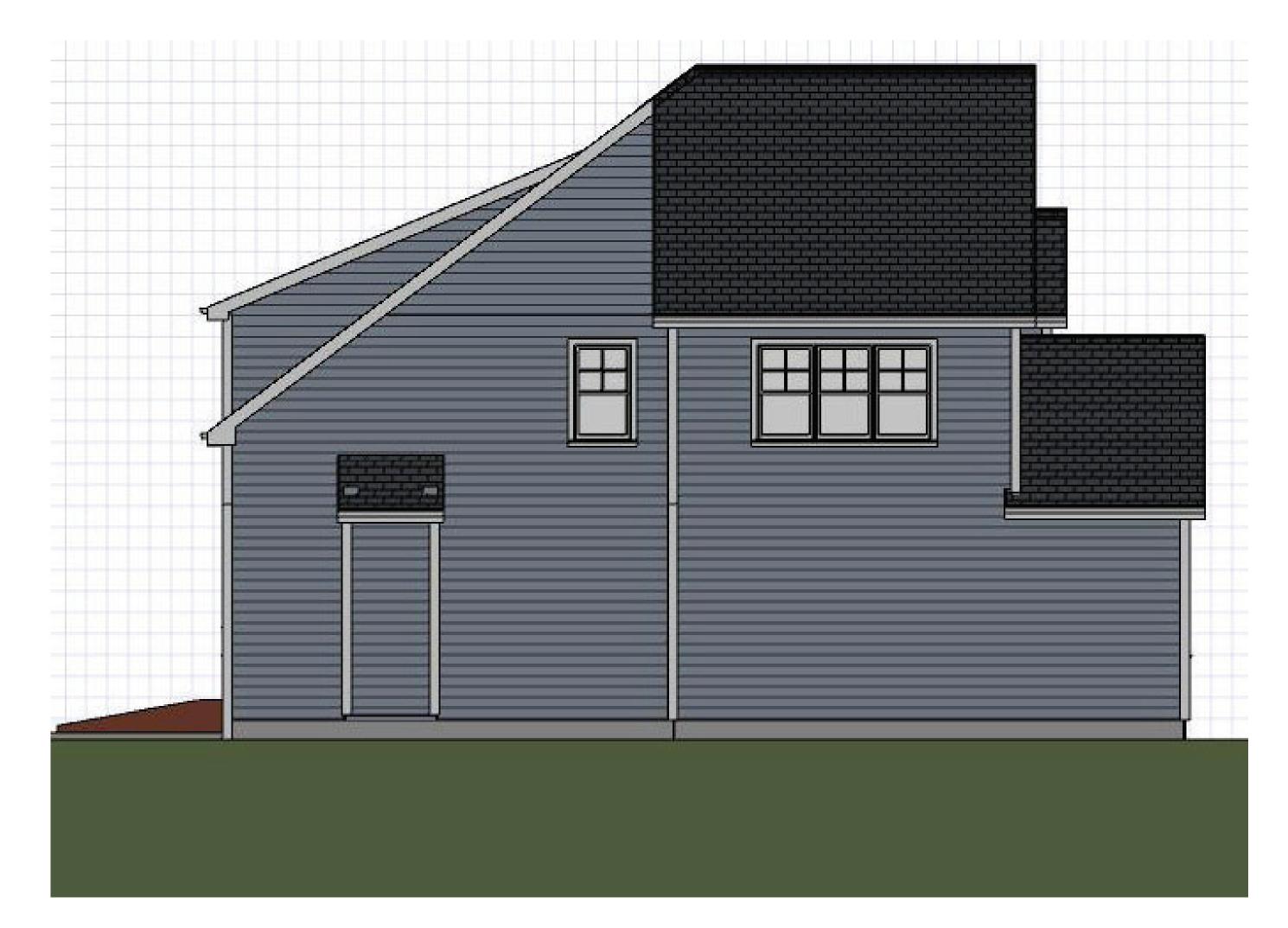
9/22/2024

SCALE:

SHEET:



Front Elevation 1/4 in = 1 ft



Left Elevation 1/4 in = 1 ft

All NEW framing and construction to be in accordance with MA Code 780 CMR 9th Edition for 1 & 2 Family Residential Construction. While good faith effort has been made to incorporate as much of that information as practical in these documents, human error or omission is possible. It is the licensed builder's responsibility to review these documents prior to construction and to proceed in accordance with applicable codes.

NUMBER DATE REVISED BY DESCRIPTION

Juplex Elevations - Front, L

ING Garnsey Condominiums

DATE:

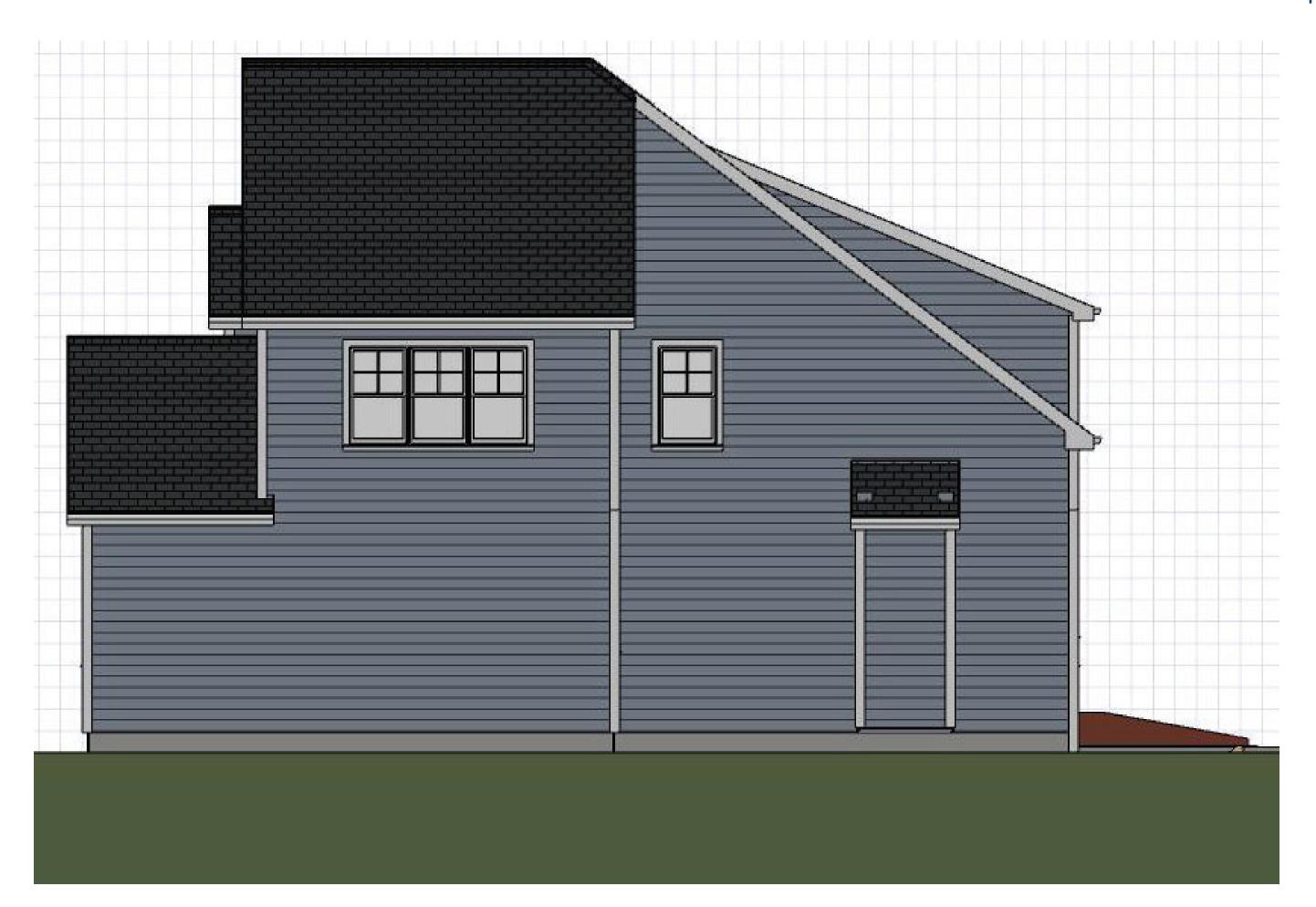
9/22/2024

SCALE:

SHEET:



Rear Elevation 1/4 in = 1 ft



Right Elevation 1/4 in = 1 ft

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NUMBER DATE REVISED BY DESCRIPTION

Duplex Elevations - Rear, Rig

ry Garnsey Condominiums

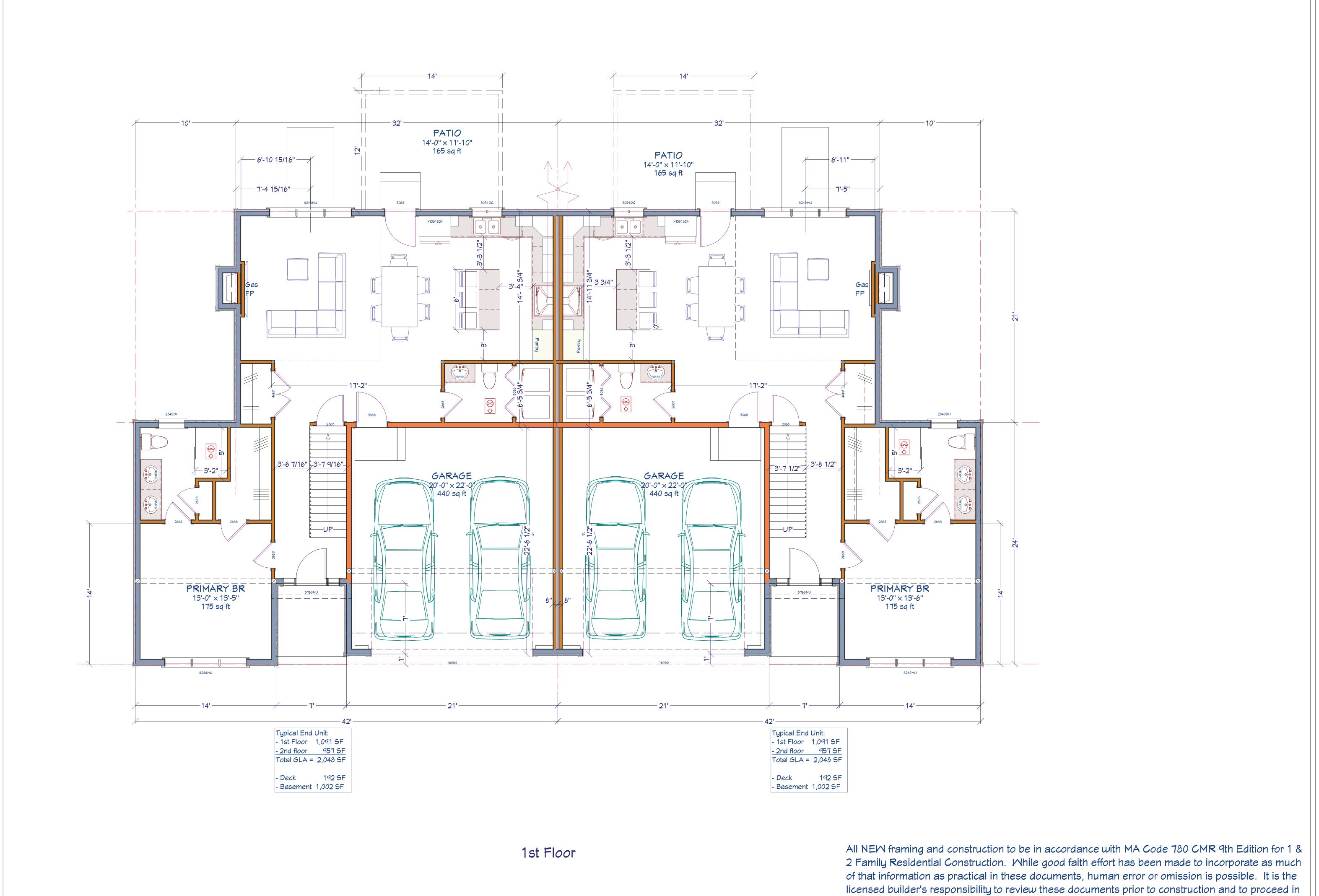
Henry Gar 20 Milford Street Medway MA

DATE:

9/22/2024

SCALE:

SHEET:



accordance with applicable codes.

oor Plan

ESIGNED FOR:

Garnsey Condominiums

PROJECT DESIGNED FOR:

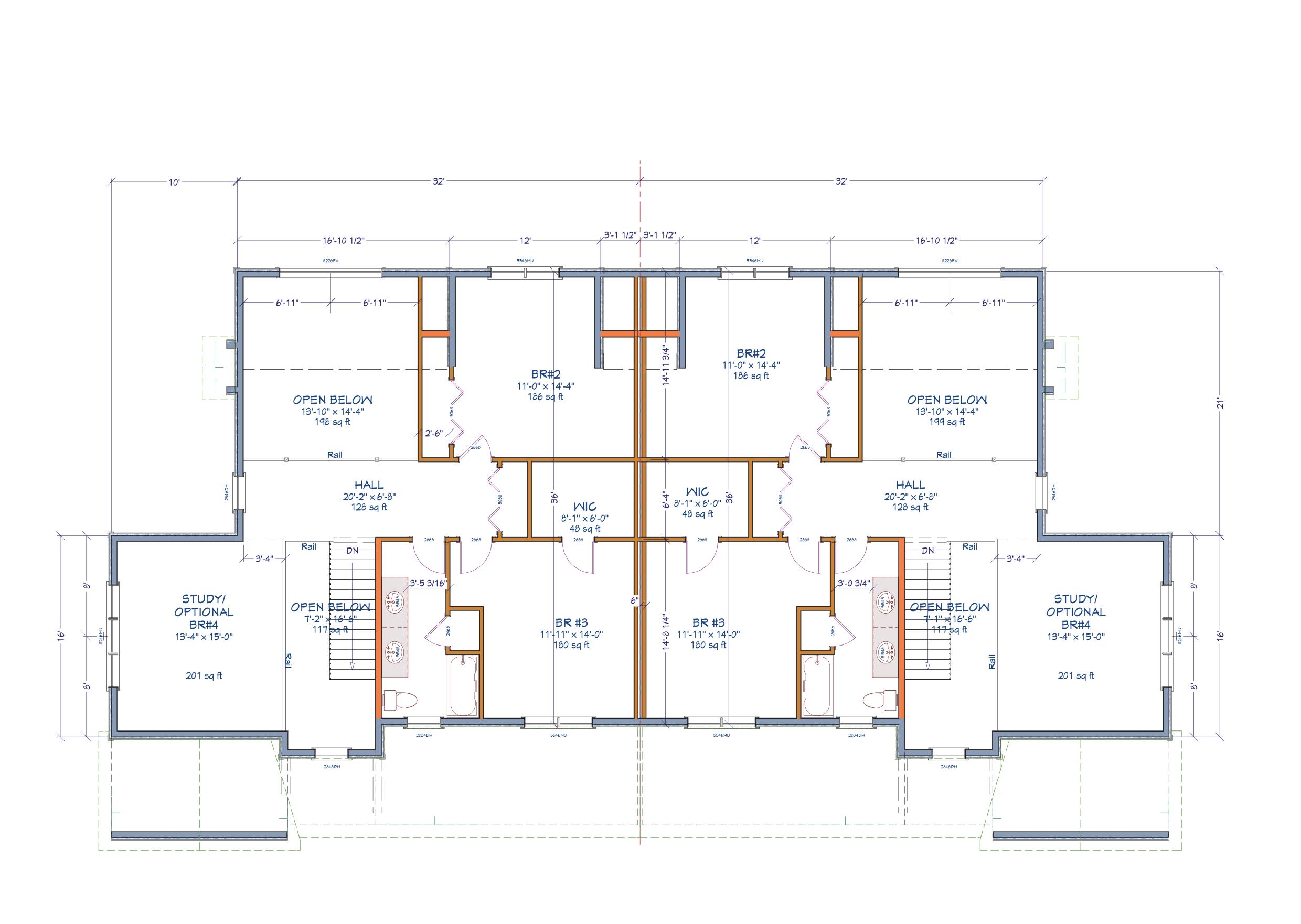
Henry Garnsey (
20 Milford Street
Medway MA

DATE:

9/22/2024

SCALE:

SHEET:



2nd Floor

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NUMBER DATE REVISED BY DESCRIPTION

Duplex 2nd Floor Pla

PROJECT DESIGNED FOR:

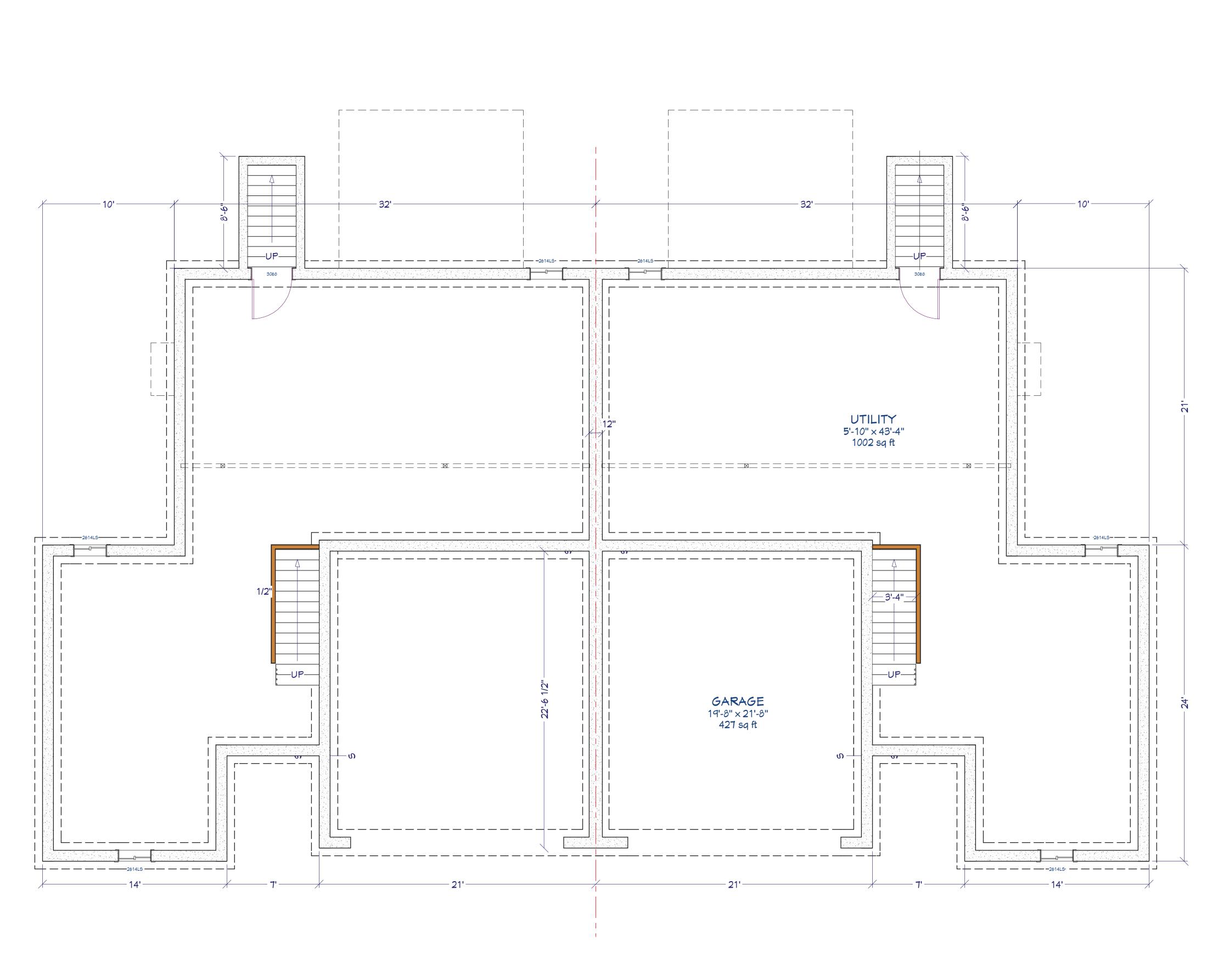
Henry Garnsey Condominiums
20 Milford Street
Medway MA

DATE:

9/22/2024

SCALE:

SHEET:



Foundation

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PROJECT DESIGNED FOR:

Henry Garnsey Condominiums

20 Milford Street

DATE:

9/22/2024

SCALE:

SHEET:

5-0



#### Available OPTIONS:

- Shake style siding in Gables with horizontal trim band.
- Returned roofs wrap around Gables or continue across in lieu of trim band.



Provide Gutters and down spouts to direct roof runoff away from the foundation.

Provide well drained window wells at cellar sashes below grade.

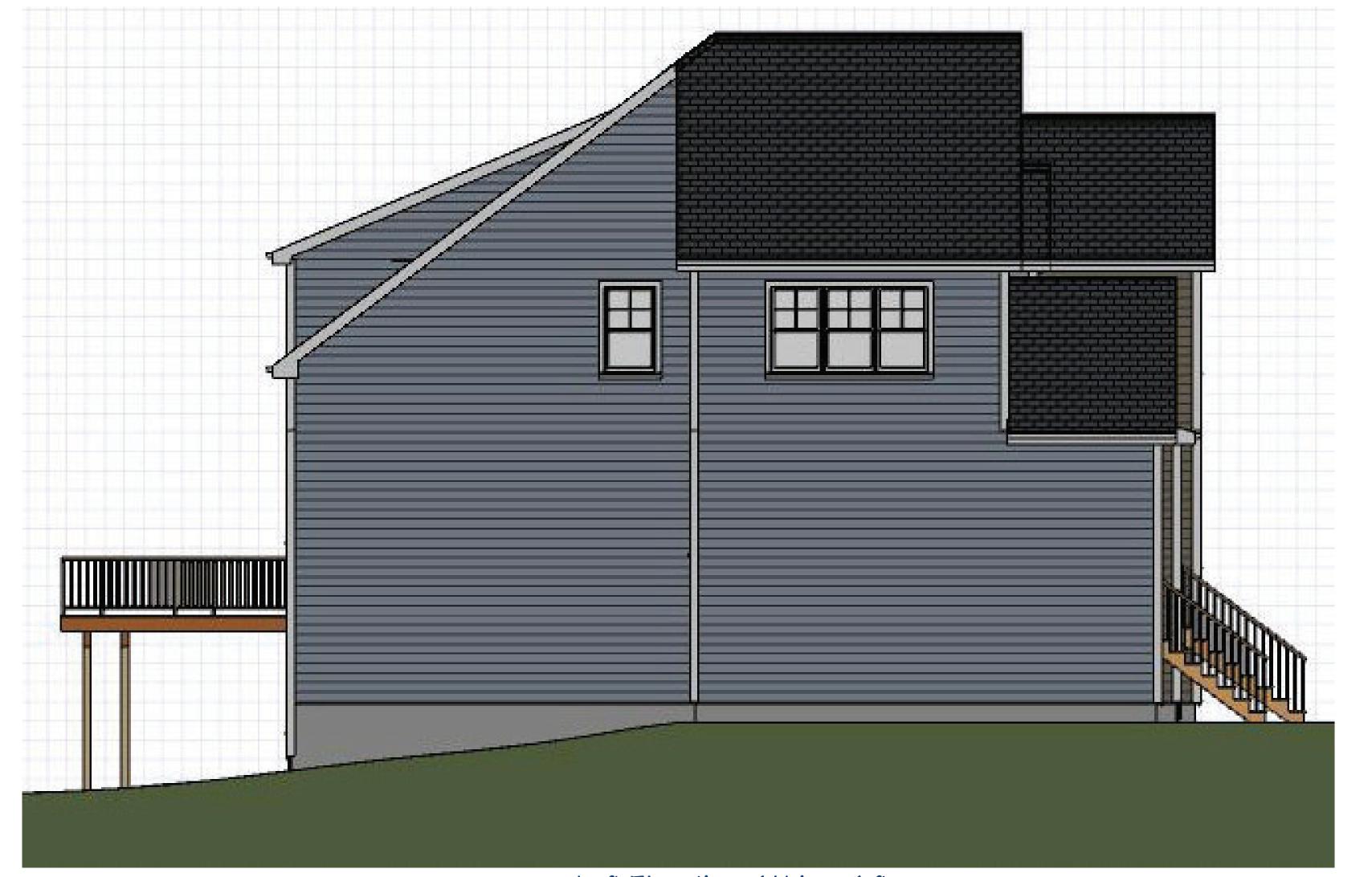


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SCALE:

SHEET:





Left Elevation 1/4 in = 1 ft

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NUMBER DATE REVISED BY DESCRIPTION

I riplex Elevations - Front, L

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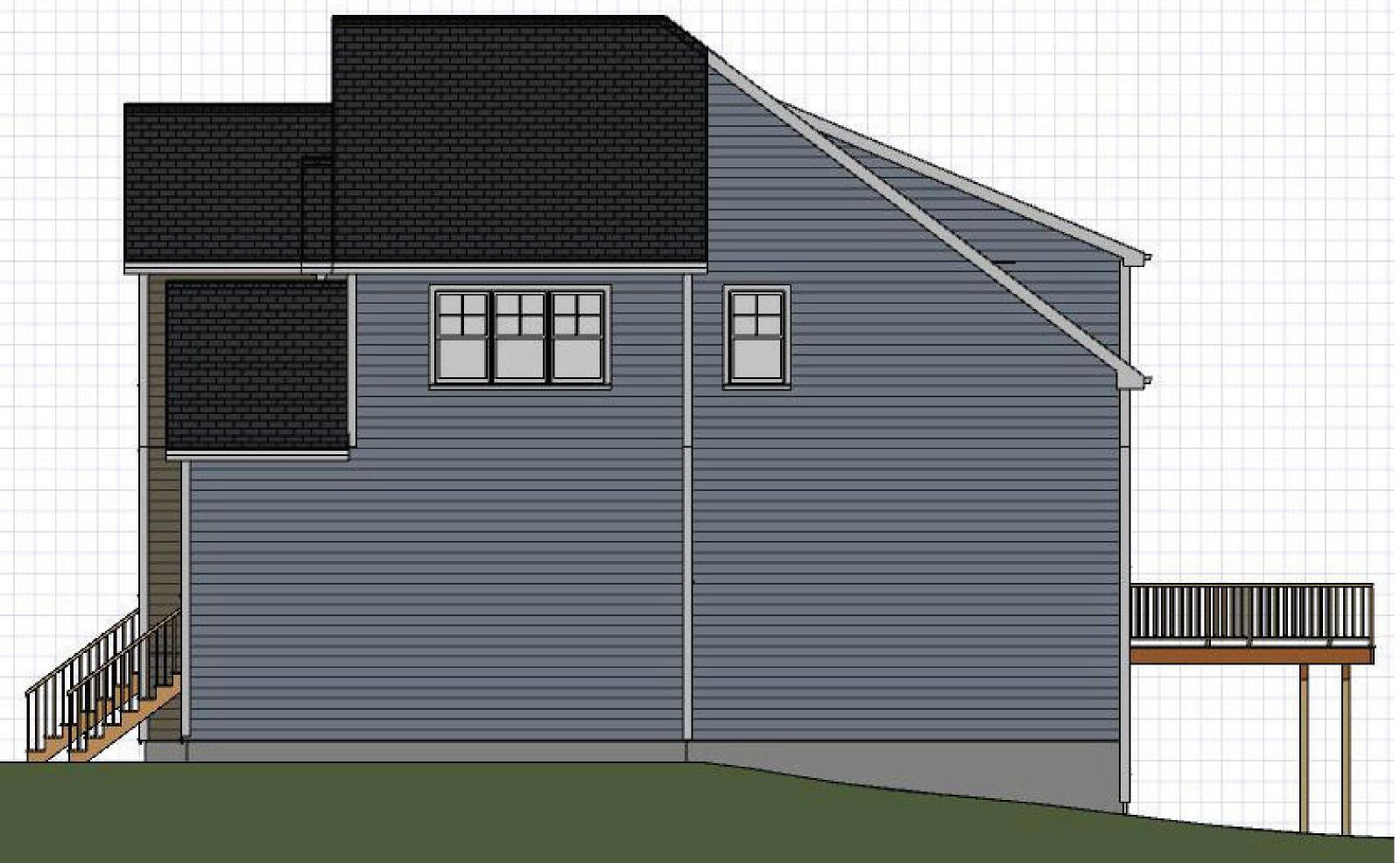
DATE:

9/22/2024

SCALE:

SHEET:





Right Elevation 1/4 in = 1 ft

of that information as practical in these documents, human error or omission is possible. It is the licensed builder's responsibility to review these documents prior to construction and to proceed in accordance with applicable codes.

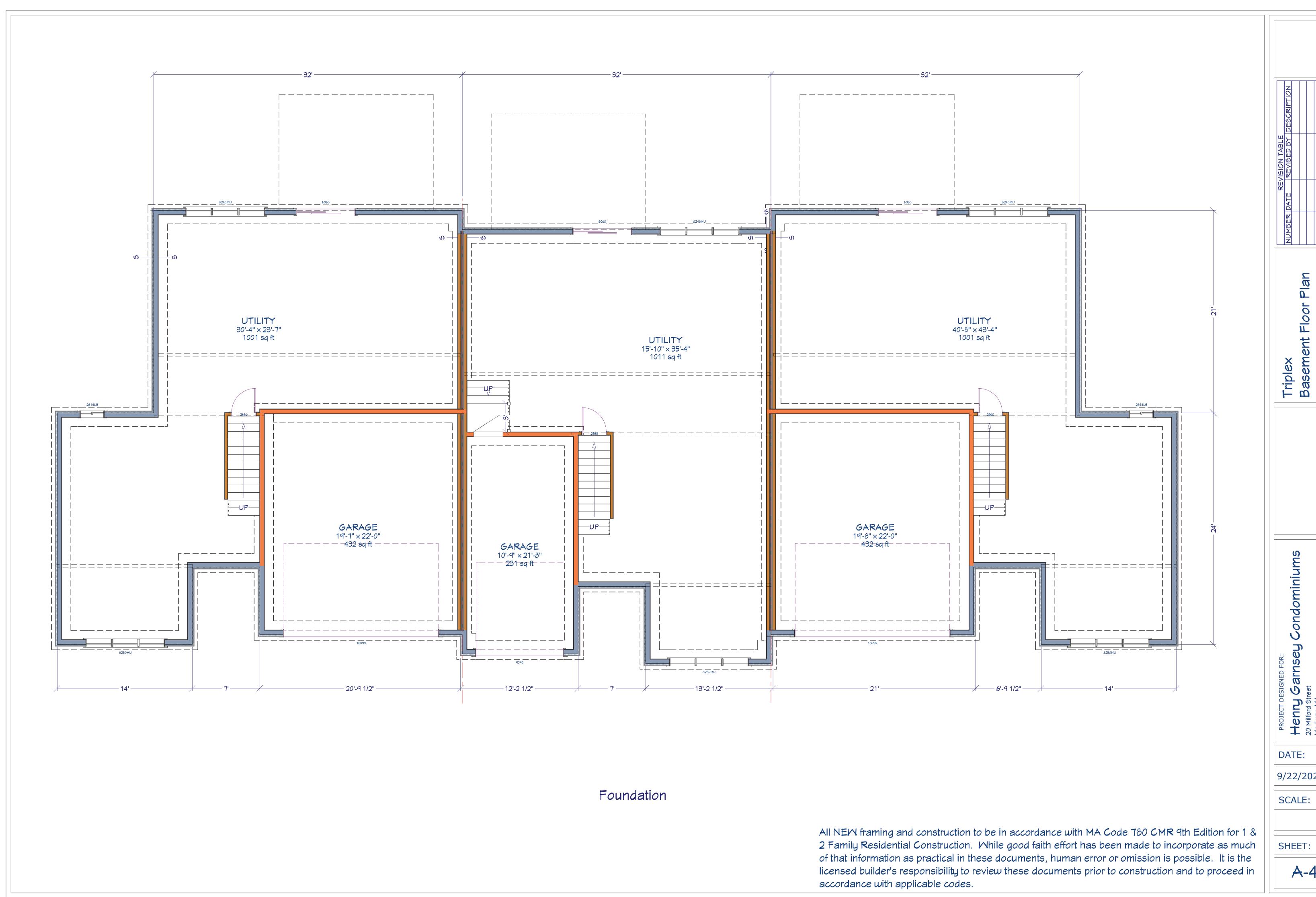
All NEW framing and construction to be in accordance with MA Code 780 CMR 9th Edition for 1 & 2 Family Residential Construction. While good faith effort has been made to incorporate as much

DATE:

9/22/2024

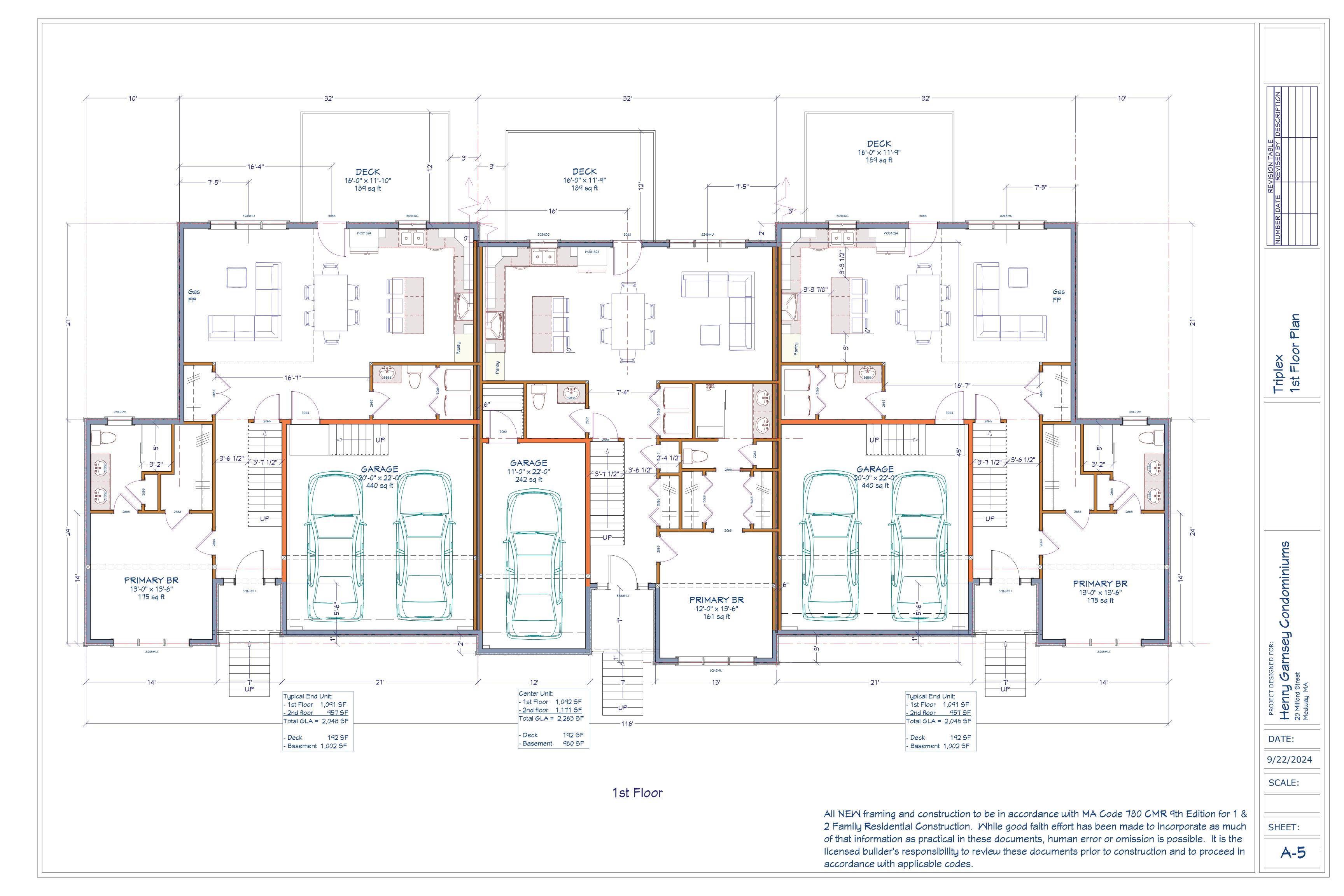
SCALE:

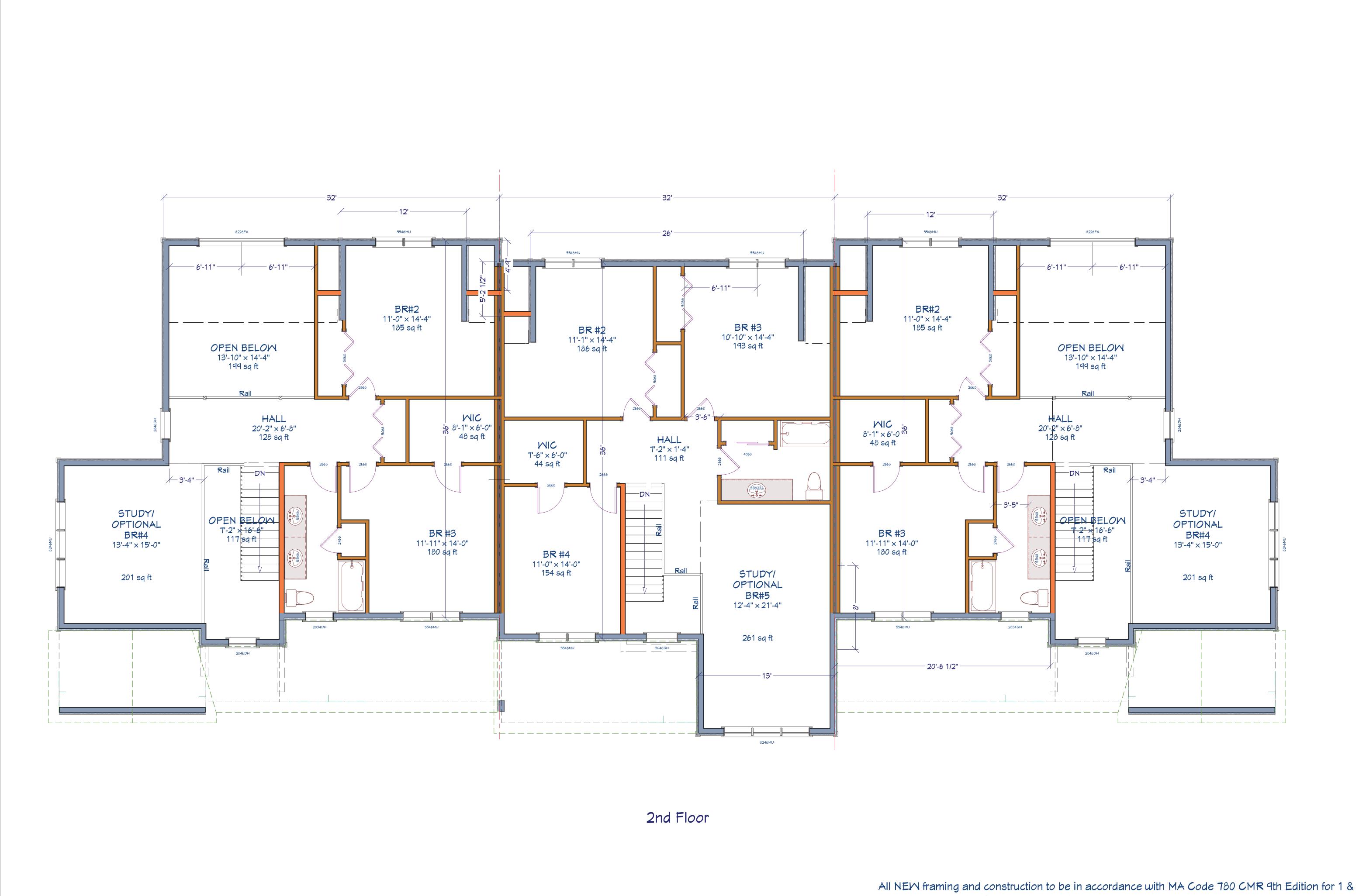
SHEET:



9/22/2024

SCALE:





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NUMBER DATE REVISED BY DESCRIPTION

Triplex 2nd Floor Pla

y Garnsey Condominiums

Henry
20 Milford Str

DATE:

9/22/2024

SCALE:

SHEET:

# HENRY GARNSEY CONDOMINIUMS

20 MILFORD STREET
MEDWAY, MASSACHUSETTS

# LANDSCAPE PERMIT SUBMISSION SET

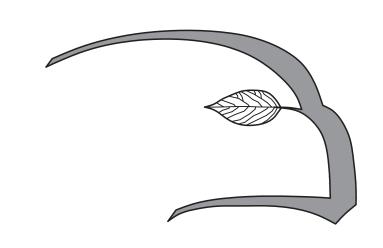
SET LIST OF DRAWINGS: DATE SITE PLANTING PLAN 9/23/24 UNIT 1, 2 & 3 PLANTING PLAN L2 9/23/24 UNIT 4, 5 & 6 PLANTING PLAN L3 9/23/24 **D** 1 PLANTING DETAILS 9/23/24 D2 PLANTING SPECIFICATIONS 9/23/24 APPLICANT:

METAL BEARD, INC.

16 MOWRY STREET

MENDON, MASSACHUSETTS 01756

PREPARED BY:



Hawk Design, Inc.
Landscape Architecture
Land Planning

Sagamore, MA 508-833-8800 info@hawkdesigninc.com

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT
VILLAGE-RESIDENTIAL (VR)
MULTI-FAMILY HOUSING
OVERLAY DISTRICT (MHOD)
RABBIT HILL NATIONAL
REGISTER HISTORIC DISTRICT

ASSESSORS PARCEL 47-113

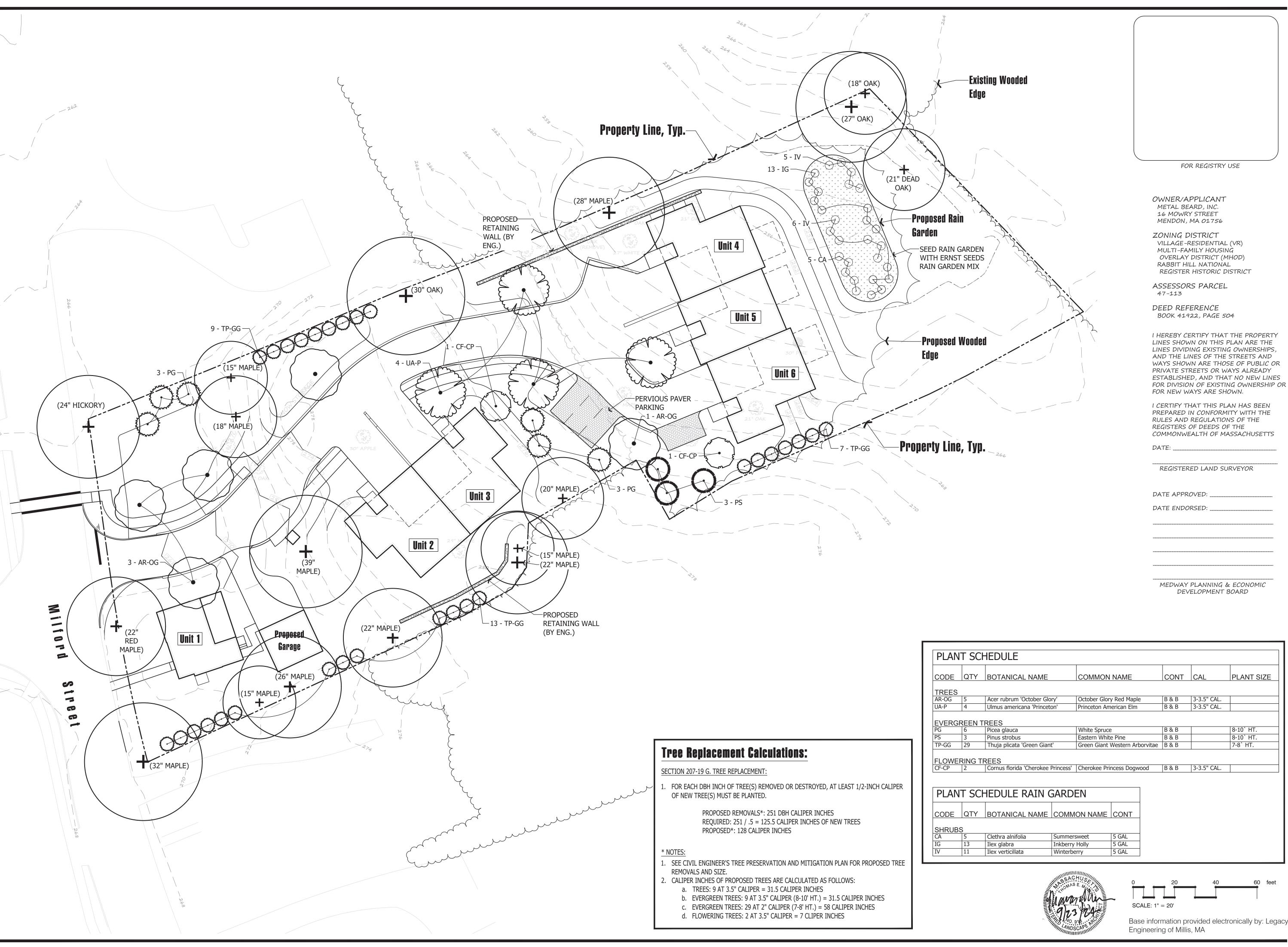
DEED REFERENCE BOOK 41922, PAGE 504

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REGISTERED LAND SURVEYO	PR
DATE APPROVED:	
DATE ENDORSED:	
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MEDWAY PLANNING & ECONOMIC
DEVELOPMENT BOARD



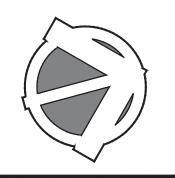


Landscape Architecture Land Planning Sagamore, MA

info@hawkdesigninc.com

508-833-8800

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Date: 9/23/24

**Revisions:** 

Num. Date Description

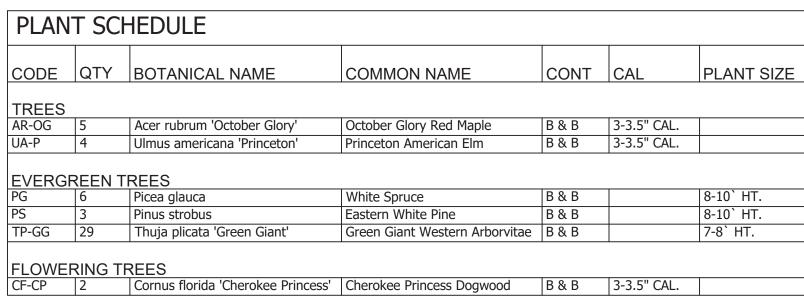
Condominiums

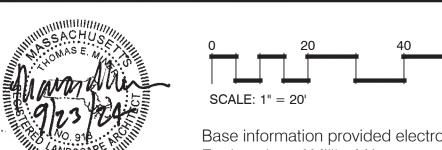
Garnsey Henry

Drawn By: BNL Checked By: BNI

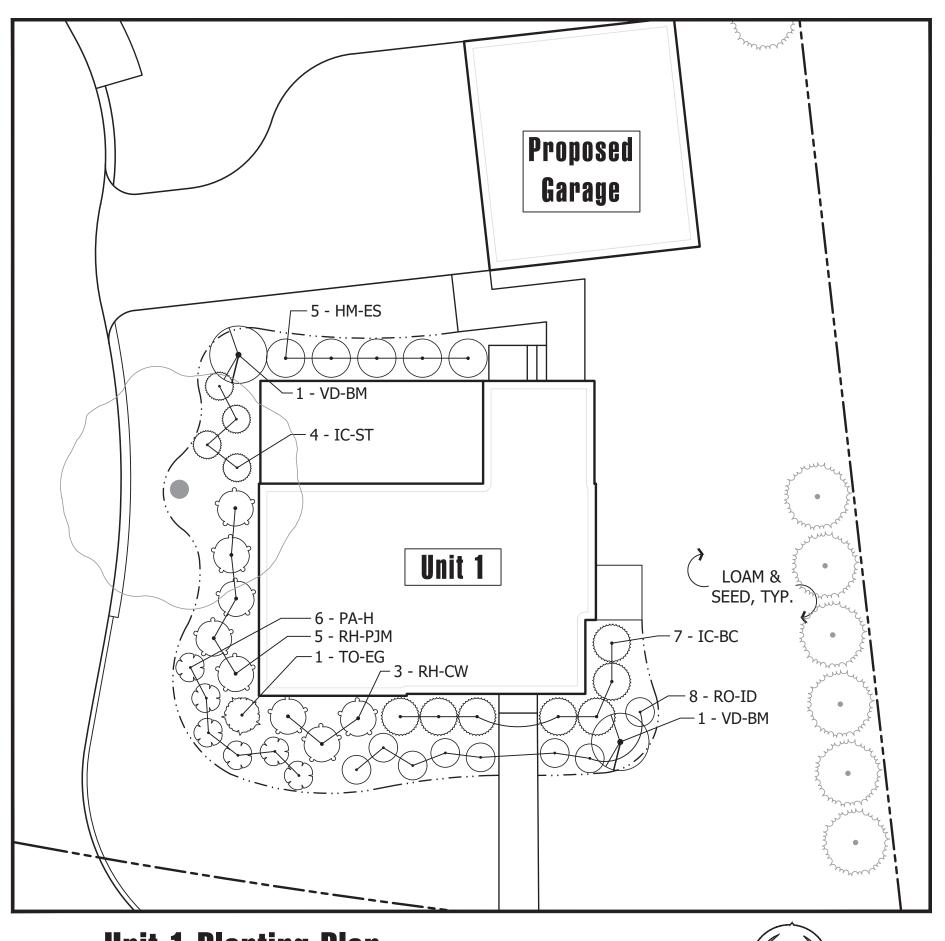
**Site Planting** 

Scale: 1" = 20'-0"





Base information provided electronically by: Legacy



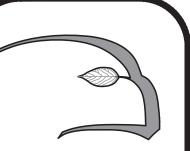
PLAN	IT SCI	HEDULE UNIT 1			
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
SHRUBS					
HM-ES	5	Hydrangea macrophylla 'Bailmer'	Endless Summer Hydrangea	Cont.	2-2.5` HT.
IC-BC	7	Ilex crenata 'Bennett's Compacta'	Bennett's Compact Holly	Cont.	2-2.5` HT.
IC-ST	4	Ilex crenata `Soft Touch`	Soft Touch Japanese Holly	Cont.	18-24" SPD.
PA-H	6	Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	2 GAL	
RH-CW	3	Rhododendron x 'Cunningham's White'	Cunningham's White Rhododendron	Cont.	2-2.5` HT.
RH-PJM	5	Rhododendron x 'P.J.M.'	PJM Rhododendron	B & B	2-2.5` HT.
RO-ID	8	Rosa x 'Icy Drift'	Icy Drift Rose	Cont.	15-18" SPD.
TO-EG	1	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	B & B	6-7` HT.
VD-BM	2	Viburnum dentatum 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	B & B	4-4.5` HT

Unit 1 Planting Plan

Scale: 1"=10'-0"

The same of the sa		
1 - TO-E 3 - VD-A 4 - WF-I	AJ MW E PLANTING DR RING	Unit 2  1 - AC-G  5 - RH-PJM  5 - PA-H  3 - JC-S  CONCRETE PAVER WALK, TYP.  1 - IM-BP 2 - RH-CW 6 - WF-FW  PLANT BED EDGE, TYP.

PLANT SCHEDULE UNIT 2 & 3					
CODE	QTY	BOTANICAL NAME	COMMON NAME	CONT	SIZE
SHRUB	S				
AC-G	1	Amelanchier canadensis 'Glennform'	Rainbow Pillar Canadian Serviceberry	B & B	6-7`HT.
IM-BP	2	Ilex x meserveae 'Blue Princess'	Blue Princess Holly	Cont.	3-3.5` HT.
JC-S	6	Juniperus chinensis 'Spartan'	Spartan Juniper	B & B	4-5` HT.
PA-H	5	Pennisetum alopecuroides 'Hameln'	Hameln Fountain Grass	2 GAL	
RH-CW	4	Rhododendron x 'Cunningham's White'	Cunningham's White Rhododendron	Cont.	2-2.5` HT.
RH-PJM	5	Rhododendron x 'P.J.M.'	PJM Rhododendron	B & B	2-2.5` HT.
SJ-G	6	Spiraea japonica 'Goldflame'	Goldflame Japanese Spirea	Cont.	18-24" HT.
TO-EG	1	Thuja occidentalis 'Smaragd'	Emerald Green Arborvitae	B & B	6-7` HT.
VD-AJ	3	Viburnum dentatum 'Ralph Senior'	Autumn Jazz Arrowwood Viburnum	B & B	3-4` HT
WF-FW	6	Weigela florida 'Fine Wine'	Fine Wine Weigela	Cont.	15-18" SPD.
WF-MW	4	Weigela florida 'Midnight Wine'	Midnight Wine Shine Weigela	Cont.	15-18" SPD.



Hawk Design, Inc.
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Land Planning
Sagamore, MA
508-833-8800

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HAWK DESIGN, INC. 2024

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Date: 9/23/24

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**Revisions:**Num. Date Description

Condominiums

Garnsey

Henry

FOR REGISTRY USE

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT
VILLAGE-RESIDENTIAL (VR)
MULTI-FAMILY HOUSING
OVERLAY DISTRICT (MHOD)
RABBIT HILL NATIONAL
REGISTER HISTORIC DISTRICT

ASSESSORS PARCEL 47-113

DEED REFERENCE BOOK 41922, PAGE 504

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DATE: \_\_

REGISTERED LAND SURVEYOR

DATE APPROVED:

DATE ENDORSED:

MEDWAY PLANNING & ECONOMIC DEVELOPMENT BOARD

> SACHUS MASE MOSCAPE MINIMANAS MOSCAPE MOSCAPE

Drawn By: BNL Checked By: BNL

**20 Milford Street** 

Applicant: Cape View Development, LLC., Medway,

Unit 1, 2 & 3
Planting Plan

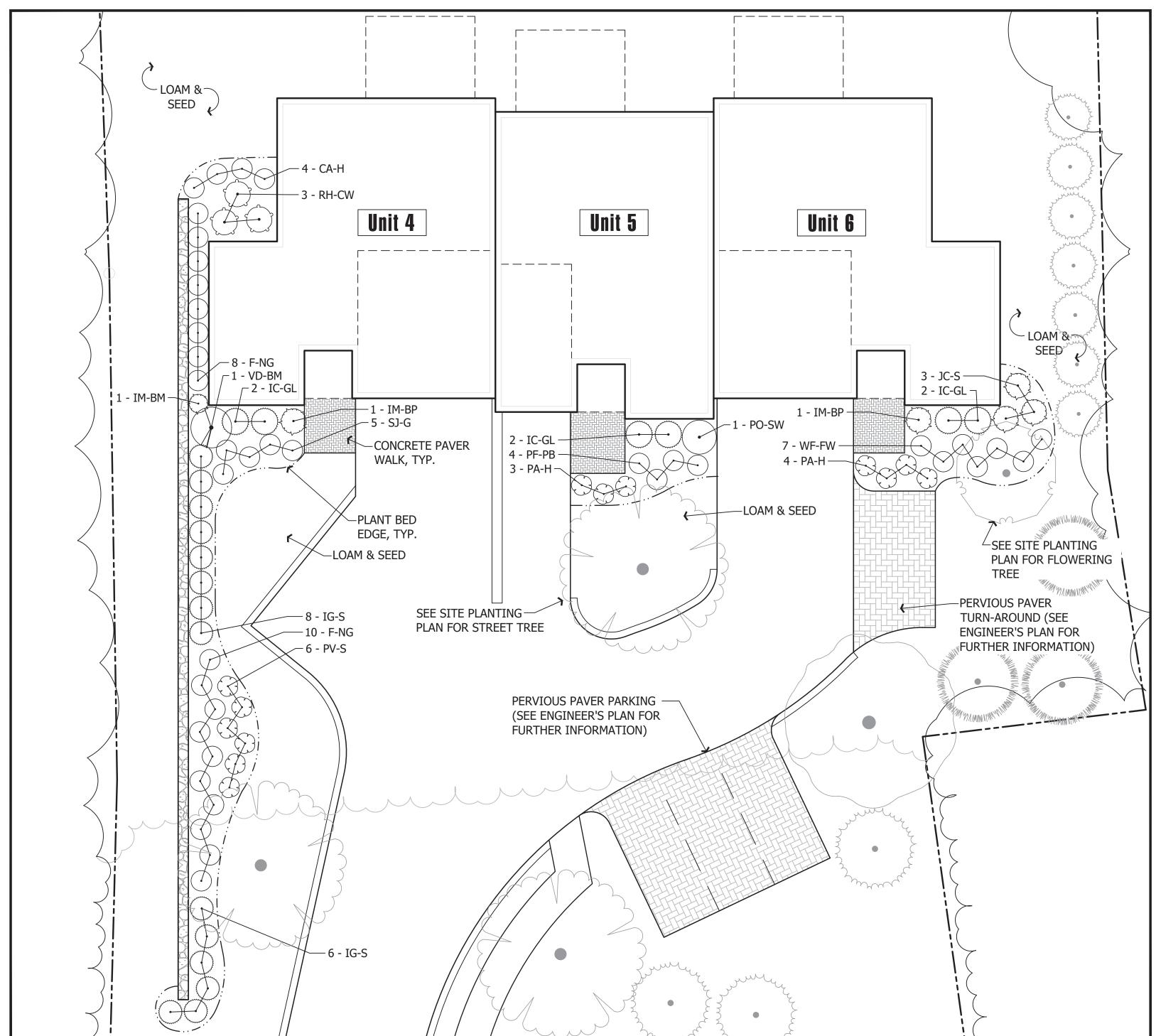
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2 Unit 2 & 3 Planting Plan
Scale: 1"=10'-0"



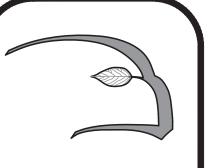
Base information provided electronically by: Legacy Engineering of Millis, MA



Unit 4, 5 & 6 Planting Plan

Scale: 1"=10'-0"

PLANT SCHEDULE UNIT 4, 5 & 6 CODE QTY BOTANICAL NAME COMMON NAME CONT SIZE Clethra alnifolia 'Hummingbird' Hummingbird Summersweet Cont. 18-24" HT. Cont. 2-2.5` HT. Northern Gold Forsythia Forsythia x 'Northern Gold' B & B 2-2.5` HT. Ilex crenata `Green Lustre` Green Luster Japanese Holly Cont. 2-2.5` HT. Cont. 2-2.5` HT. Ilex glabra 'Shamrock' Shamrock Inkberry Holly IM-BM Ilex x meserveae 'Blue Prince' Blue Prince Holly Ilex x meserveae 'Blue Princess' Cont. 3-3.5` HT. Blue Princess Holly JC-S B & B 4-5` HT. Juniperus chinensis 'Spartan' Spartan Juniper PA-H 2 GAL Hameln Fountain Grass Pennisetum alopecuroides 'Hameln' PF-PB Cont. 15-18" HT. Potentilla fruticosa 'Pink Beauty' Pink Beauty Bush Cinquefoil PO-SW Cont. 2-2.5` HT. Physocarpus opulifolius 'Summer Wine' Summer Wine Ninebark 2 GAL Panicum virgatum 'Shenandoah' Shenandoah Switch Grass RH-CW Cunningham's White Rhododendron Cont. 2-2.5` HT. Rhododendron x 'Cunningham's White' Cont. 18-24" HT. Spiraea japonica 'Goldflame' Goldflame Japanese Spirea VD-BM Blue Muffin Arrowwood Viburnum B & B 4-4.5` HT Viburnum dentatum 'Blue Muffin' WF-FW 7 Fine Wine Weigela Weigela florida 'Fine Wine' Cont. 15-18" SPD.



Hawk Design, Inc.
Landscape Architecture
Land Planning
Sagamore, MA
508-833-8800

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- -

**Revisions:**Num. Date Description

Condominiums

Garnsey

Henry

. Medway,

Development, LLC.,

**Cape View** 

**Milford Street** 

FOR REGISTRY USE

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT
VILLAGE-RESIDENTIAL (VR)
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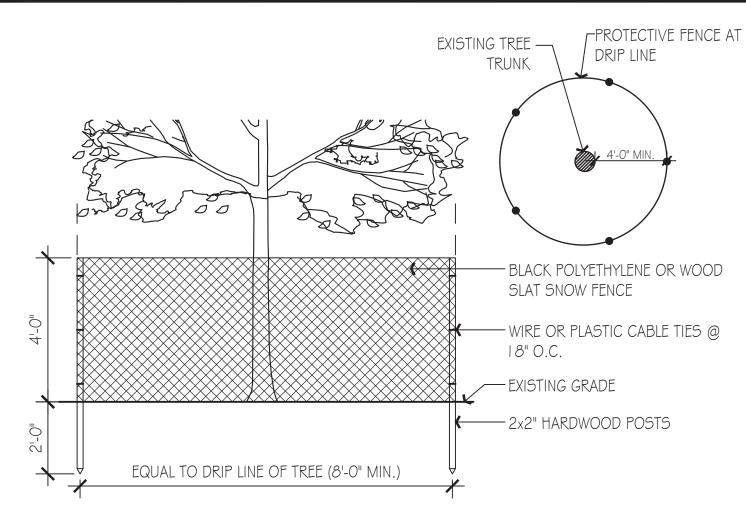
Drawn By: BNL Checked By: BNI

Unit 4, 5 & 6
Planting Plan

Scale: As Noted

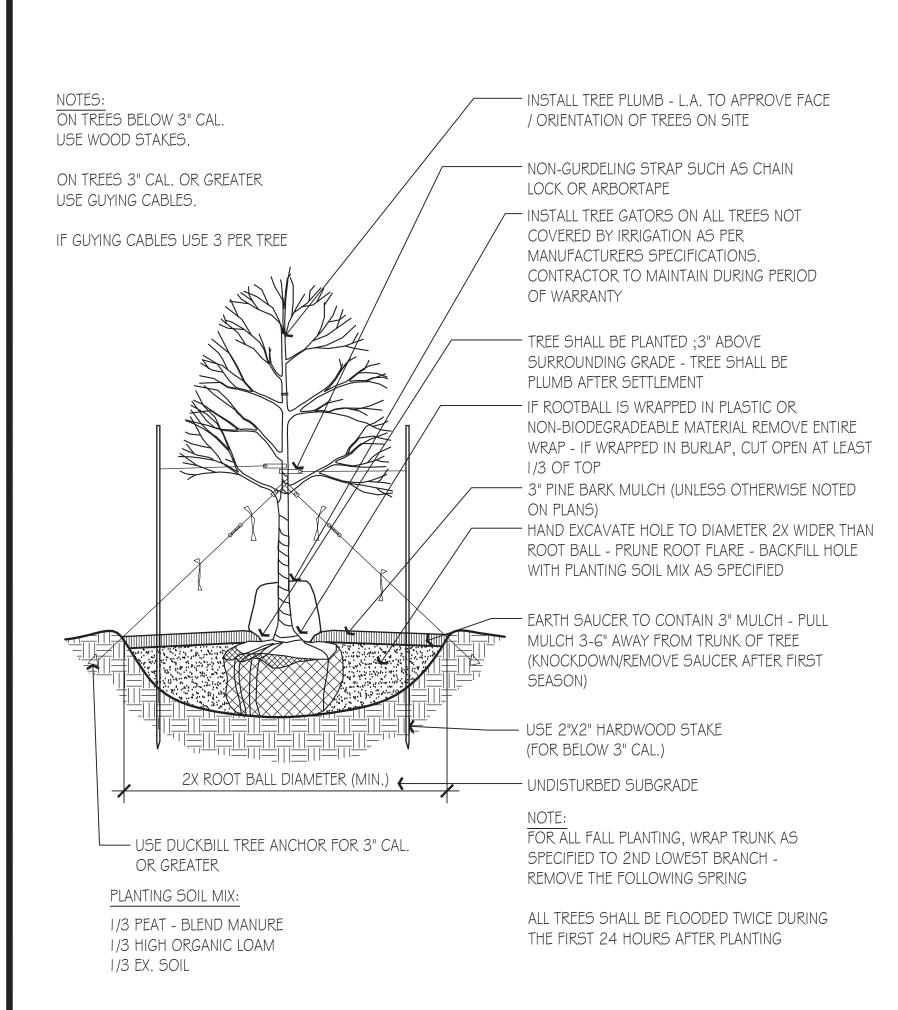
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Base information provided electronically by: Legacy Engineering of Millis, MA

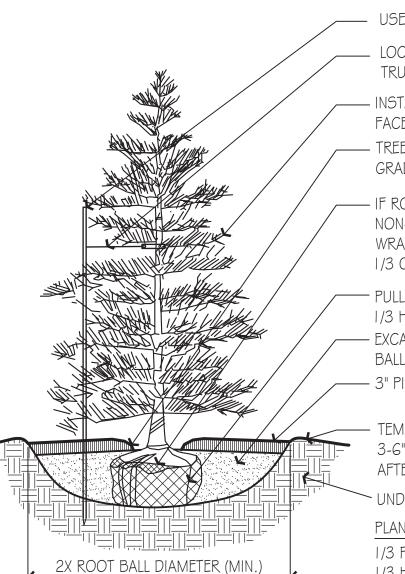


- I. PROTECTIVE FENCE TO REMAIN UNTIL CONSTRUCTION IS COMPLETE.
- 2. NO TREE SHALL BE REMOVED UNLESS SPECIFICALLY TAGGED FOR REMOVAL BY THE
- LANDSCAPE ARCHITECT
- 3. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE TREES THAT ARE TO REMAIN.
- 4. DO NOT NAIL BOARDS OR FENCING TO TREES DURING CONSTRUCTION
- 5. ANY EXCAVATING WITHIN DRIPLINE MUST BE APPROVED BY LANDSCAPE ARCHITECT AND MUST BE HAND-DUG. CONTRACTOR SHALL NOT CUT ANY ROOTS AND/OR BRANCHES UNLESS APPROVED BY LANDSCAPE ARCHITECT.
- 6. ROOTS EXPOSED AND/OR DAMAGED DURING GRADING & CONSTRUCTION OPERATIONS SHALL BE CUT OFF CLEANLY INSIDE THE EXPOSED OR DAMAGED AREA AND TOPSOIL BE PLACED OVER THE ROOTS IMMEDIATELY. FEEDER ROOTS SHALL NOT BE CUT IN AN AREA INSIDE DRIP LINE OF THE TREE BRANCHES.
- 7. ROOTS GREATER THAN I" DIAMETER SHALL NOT BE CUT UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT.
- 8. STOCKPILED MATERIALS OR UNNECESSARY VEHICULAR TRAFFIC SHALL NOT BE ALLOWED OVER ANY TREE ROOT SYSTEM.
- 9. INSPECT FENCE ON WEEKLY BASIS AND REPAIR DAMAGE IMMEDIATELY.





# Deciduous Tree Planting



USE 2"X2" HARDWOOD STAKE LOCATE ANCHOR STAKE 18" AWAY FROM TREE TRUNK ON SIDE OF PREVAILING WIND – INSTALL TREE PLUMB - L.A. TO APPROVE

FACE/ORIENTATION OF TREES ON SITE - TREE SHALL BE PLANTED ;3" ABOVE SURROUNDING GRADE - TREE SHALL BE PLUMB AFTER SETTLEMENT

- IF ROOTBALL IS WRAPPED IN PLASTIC OR NON-BIODEGRADEABLE MATERIAL REMOVE ENTIRE WRAP - IF WRAPPED IN BURLAP, CUT OPEN AT LEAST 1/3 OF TOP \$ REMOVE ALL TWINE/ ROPE.

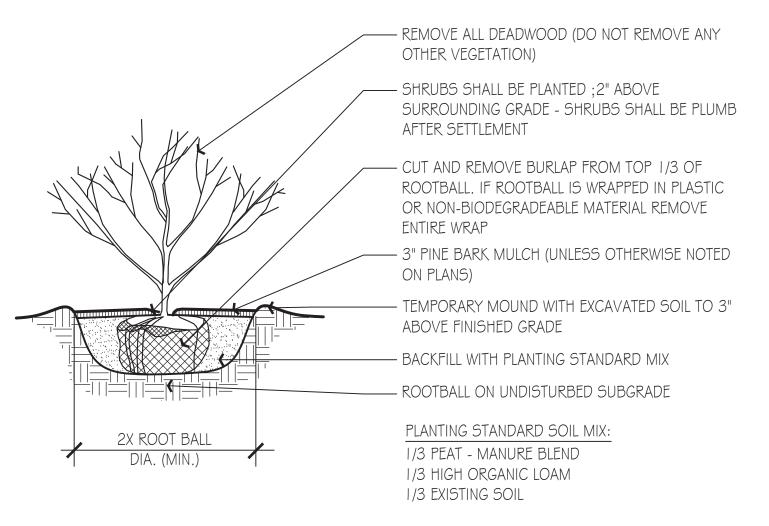
PULL WIRE CAGE BACK DOWN INTO PLANTING HOLE 1/3 HEIGHT OF ROOTBALL

- EXCAVATE HOLE TO DIAMETER 2X WIDER THAN ROOT BALL - BACKFILL HOLE WITH PLANTING MIX AS SPECIFIED — 3" PINE BARK MULCH (UNLESS OTHERWISE NOTED ON PLANS)

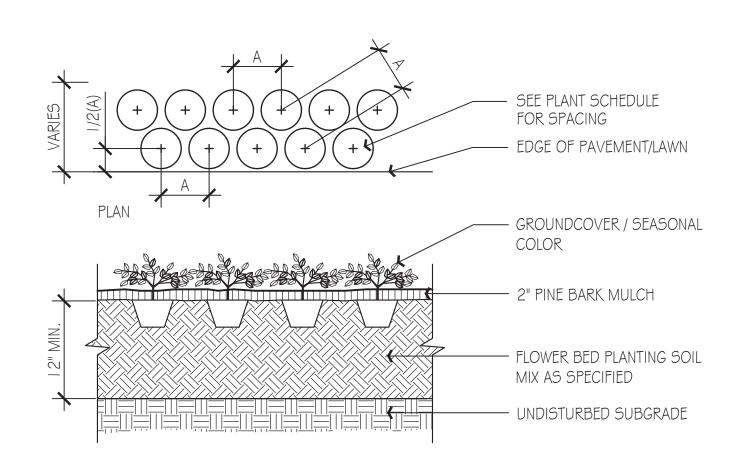
- TEMPORARY EARTH SAUCER TO CONTAIN 3" MULCH - PULL MULCH 3-6" AWAY FROM TRUNK OF TREE (KNOCKDOWN/REMOVE SAUCER AFTER FIRST SEASON)

- JNDISTURBED SUBGRADE
- PLANTING STANDARD SOIL MIX: 1/3 PEAT - MANURE BLEND
- 1/3 HIGH ORGANIC LOAM 1/3 EXISTING SOIL

# **Conifer Tree Planting**



# **Shrub Planting**



# Groundcover & Perennial Planting

#### SCHEDULE OF TOPSOILS & ADDITIVES

LOCATION	DEPTH	DESCRIPTION		
GENERAL PLANTING BEDS	12"	I/3 PEAT - MANURE BLEND I/3 HIGH ORGANIC LOAM I/3 EXISTING SOIL		
FLOWER BEDS	12"	SCREENED LOAM  1/3 PEAT - MANURE BLEND LIME - PELATIZED OR GROUND  (50 LB. PER 100 SF.)  GROUND BONE MEAL (50 LB. PER 100 SF.)  10-10-10 INORGANIC FERTILIZER (50 LB. PER 5000 SF.)		
LAWNS - SOD & SEED	6"	6" SCREENED LOAM		
PITS/TREE WELLS "STANDARD MIX" FOR BACKFILL	12"	I/3 PEAT - MANURE BLEND I/3 HIGH ORGANIC LOAM I/3 EXISTING SOIL		

# Rain Garden Seed Mix:



Ernst Conservation Seeds

8884 Mercer Pike Meadville, PA 16335 (800) 873-3321 Fax (814) 336-5191

#### Rain Garden Mix - ERNMX-180

	Botanical Name	Common Name	Price/Lb
29.50 %	Schizachyrium scoparium, Fort Indiantown Gap-PA Ecotype	Little Bluestem, Fort Indiantown Gap-PA Ecotype	12.98
20.00 %	Elymus virginicus, Madison-NY Ecotype	Virginia Wildrye, Madison-NY Ecotype	10.43
9.00 %	Carex vulpinoidea, PA Ecotype	Fox Sedge, PA Ecotype	28.80
8.00 %	[2017 Blog 20] 이렇지! [1917] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017] [2017]	Purple Coneflower	43.20
5.80 %	Panicum rigidulum, PA Ecotype	Redtop Panicgrass, PA Ecotype	57.60
5.30 %	Chasmanthium latifolium, WV Ecotype	River Oats, WV Ecotype	96.00
3.00 %	Coreopsis lanceolata	Lanceleaf Coreopsis	28.80
3.00 %	Rudbeckia hirta	Blackeyed Susan	31.20
2.50 %	Verbena hastata, PA Ecotype	Blue Vervain, PA Ecotype	38.40
2.00 %	Panicum clandestinum, Tioga	Deertongue, Tioga	22.21
1.80 %	Heliopsis helianthoides, PA Ecotype	Oxeye Sunflower, PA Ecotype	33.60
1.50 %	Asclepias incarnata, PA Ecotype	Swamp Milkweed, PA Ecotype	177.60
1.30 %	Penstemon digitalis, PA Ecotype	Tall White Beardtongue, PA Ecotype	168.00
1.00 %	Carex scoparia, PA Ecotype	Blunt Broom Sedge, PA Ecotype	81.60
1.00 %	Senna hebecarpa, VA & WV Ecotype	Wild Senna, VA & WV Ecotype	28.80
1.00 %	Zizia aurea, PA Ecotype	Golden Alexanders, PA Ecotype	72.00
0.50 %	Baptisia australis, Southern WV Ecotype	Blue False Indigo, Southern WV Ecotype	96.00
0.50 %	Juncus effusus	Soft Rush	48.00
0.50 %	Juncus tenuis, PA Ecotype	Path Rush, PA Ecotype	48.00
0.50 %	Pycnanthemum tenuifolium	Narrowleaf Mountainmint	240.00
0.50 %	Vernonia noveboracensis, PA Ecotype	New York Ironweed, PA Ecotype	264.00
0.40 %	Aster novae-angliae, PA Ecotype	New England Aster, PA Ecotype	336.00
0.40 %	Monarda fistulosa, Fort Indiantown Gap-PA Ecotype	Wild Bergamot, Fort Indiantown Gap-PA Ecotype	96.00
0.20 %	Aster prenanthoides, PA Ecotype	Zigzag Aster, PA Ecotype	432.00
0.10 %	Aster lanceolatus	Lance Leaved Aster	432.00
0.10 %	Aster lateriflorus	Calico Aster	336.00
0.10 %	Aster pilosus, PA Ecotype	Heath Aster, PA Ecotype	264.00
0.10 %	Eupatorium perfoliatum, PA Ecotype	Boneset, PA Ecotype	192.00
0.10 %	Mimulus ringens, PA Ecotype	Square Stemmed Monkeyflower, PA Ecotype	216.00
0.10 %	Solidago juncea, PA Ecotype	Early Goldenrod, PA Ecotype	336.00
0.10 %	Solidago nemoralis, PA Ecotype	Gray Goldenrod, PA Ecotype	264.00
0.10 %	Solidago rugosa, PA Ecotype	Wrinkleleaf Goldenrod, PA Ecotype	264.00

Mix Price/Lb Bulk: \$39.25

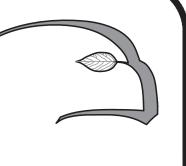
Seeding Rate: 20 lb per acre with a cover crop. For sites that drain within 24 hours of a rain event use one of the following cover crops:Oats (1 Jan to 31 Jul; 30 lbs/acre), Japanese Millet (1 May to 31 Aug; 10 lbs/acre), or grain rye (1 Aug to 31 Dec; 30

100.00 %

Grasses & Grass-like Species - Herbaceous Perennial; Herbaceous Flowering Species - Herbaceous Perennial; Stormwater Management; Uplands & Meadows

The native perennial forbs and grasses provide food and cover for rain garden biodiversity. Mix formulations are subject to change without notice depending on the availability of existing and new products. While the formula may change, the guiding philosophy

> Price quotes guaranteed for 30 days. All prices are FOB Meadville, PA. Please check our web site at www.ernstseed.com for current pricing when placing orders.



Hawk Design, Inc Landscape Architecture **Land Planning** Sagamore, MA

info@hawkdesigninc.com

HAWK DESIGN, INC. 2024

508-833-8800

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Date: 9/23/24

**Revisions:** Num. Date Description

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT VILLAGE-RESIDENTIAL (VR) MULTI-FAMILY HOUSING OVERLAY DISTRICT (MHOD) RABBIT HILL NATIONAL REGISTER HISTORIC DISTRICT

FOR REGISTRY USE

ASSESSORS PARCEL 47-113

DEED REFERENCE BOOK 41922, PAGE 504

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

I CERTIFY THAT THIS PLAN HAS BEEN PREPARED IN CONFORMITY WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS OF THE COMMONWEALTH OF MASSACHUSETTS

REGISTERED LAND SURVEYOR

DATE APPROVED:

DATE ENDORSED:

MEDWAY PLANNING & ECONOMIC DEVELOPMENT BOARD



Base information provided electronically by: Legacy Engineering of Millis, MA

Condominiums Medway, LLC., Development, Garnsev Henry

**Planting Details** 

Scale: As Noted

#### General Landscape Notes:

I.I) CONTRACTOR REQUIREMENTS:

- A) ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS, FROM ALL FEDERAL, STATE AND LOCAL AUTHORITIES.
- B) THE CONTRACTOR SHALL ARRANGE FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE COMPLETE WORK SPECIFIED HEREIN AND SHOWN ON ALL THE DRAWINGS. THE CONTRACTOR SHALL PAY FOR ANY FEES NOT WAIVED.

#### | 2)||T|||T|FS.

- A) LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE RELEVANT UTILITY COMPANIES PRIOR TO DOING ANY EXCAVATION ON THE SITE. IF ANY WORK IS TO BE DONE AROUND UNDERGROUND UTILITIES, THE APPROPRIATE AUTHORITY OF THAT UTILITY MUST BE NOTIFIED OF THE IMPENDING WORK.
- B) UTILITIES SHALL BE LOCATED AND MARKED PRIOR TO ANY INSTALLATION. ADJUSTMENTS MAY BE NECESSARY IN THE FIELD TO ACCOMMODATE UTILITY LOCATIONS. REPORT ANY CONFLICTS TO THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- C) THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES DONE TO EXISTING UTILITIES.

  THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO COMPLY.
- I.3) PROTECTION OF EXISTING WORK: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL WORK IN A MANNER THAT PROTECTS WORK COMPLETED BY OTHERS, SUCH AS CURBS, UTILITIES, STORM DRAINAGE, FENCES, DRIVEWAY APRONS, DRIVES, VEGETATION, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF SATISFACTORY REPAIR OF ALL DAMAGE IN KIND RESULTING FROM THEIR FAILURE TO COMPLY.
- I.4) QUANTITIES: A COMPLETE LIST OF PLANTS INCLUDING A SCHEDULE OF QUANTITIES, SIZES, TYPES, AND NAMES IS INCLUDED IN THIS SET OF DRAWINGS. IN THE EVENT OF DISCREPANCIES BETWEEN QUANTITIES OF PLANT IN THE PLANT LIST AND THE QUANTITIES SHOWN ON THE DRAWINGS, THE PLAN SHALL GOVERN. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF UNLABELED PLANTS IN PLAN FOR CLARIFICATION. THE LANDSCAPE ARCHITECT SHALL BE ALERTED BY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO FINAL BID NEGOTIATION.
- I.5) <u>APPLICABLE PLANT MATERIALS STANDARDS</u>: ALL PLANT MATERIALS ARE TO COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTING METHODS WILL BE IN ACCORDANCE WITH SITE-SPECIFIC REQUIREMENTS.
- I.G) PLANT HARDINESS: ALL TREES AND SHRUBS SHALL BE NURSERY GROWN WITHIN A USDA PLANT HARDINESS ZONE, WHICH IS THE SAME AS, OR COLDER THAN, THE ZONE IN WHICH THE PROJECT IS
- 1.7) <u>PLANTING SEASONS</u>: PLANTING SHALL ONLY OCCUR DURING SPECIFIED SEASONS. SPRING SEASON SHALL BE FROM MARCH 1 TO JUNE 15. FALL PLANTING SEASON SHALL BE FROM SEPTEMBER 15 THROUGH NOVEMBER 15. NO PLANTING SHALL OCCUR WHEN THE GROUND IS FROZEN.
- I.8) PLANT SUBSTITUTIONS: NO SUBSTITUTIONS OF PRODUCTS, PLANT TYPES OR SIZES SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. REQUESTS FOR SUBSTITUTION SHALL BE IN WRITING, AND SHALL STATE THE REASON FOR THE SUBSTITUTION REQUEST, THE SUGGESTED ALTERNATIVE AND THE CHANGES IN COST. REQUESTS FOR SUBSTITUTION IN PLANT MATERIALS SHALL STATE THE NAMES OF NURSERIES THAT HAVE BEEN UNABLE TO SUPPLY THE ORIGINALLY SPECIFIED
- I.9) THE LANDSCAPE ARCHITECT SHALL RESERVE THE RIGHT TO INSPECT ALL PLANT MATERIALS AT THE NURSERY, UPON SITE DELIVERY AND DURING INSTALLATION TO INSURE SPECIFICATIONS AND PROCEDURES ARE ADHERED TO.
- I.IO) MINIMUM SIZES: ALL PLANTS 3' OR GREATER IN HEIGHT OR SPREAD SHALL BE BALLED AND BURLAPPED. SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUMS ON WHICH THE PLANTS ARE TO BE
- I.II) DEAD PLANTS: DEAD PLANTS ARE TO BE REMOVED FROM THE SITE IMMEDIATELY, AND REPLACED WITH THE SAME PLANT & SIZE REGARDLESS OF SEASON, WEEKLY FROM THE JOB BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN AN UPDATED COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
- I. I 2) PLANT MATERIAL REMOVAL: NO EXISTING TREES SHALL BE REMOVED WITHOUT THE WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT EXCEPT WHERE NOTED ON THE PLANS. CONTRACTORS WHO REMOVE EXISTING TREES WITHOUT WRITTEN APPROVAL WILL BE REQUIRED TO MAKE REMEDIES DETERMINED BY THE GOVERNING URBAN FORESTER OR EQUIVALENT AUTHORITY. NO GRUBBING SHALL OCCUR WITHIN EXISTING TREE AREAS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- I.I3) ALL DISTURBED AREAS NOT TO RECEIVE PLANT MATERIALS ARE TO BE LOAMED AND SEEDED AND BLENDED INTO EXISTING GRADE AND CONDITIONS. SEE SECTION 4.0.
- I.14) LEDGE BOULDERS: IF DURING SITE EXCAVATION, LEDGE BOULDERS ARE AVAILABLE, THESE ARE TO BE STOCKPILED FOR USE IN EARTH BERMS IF APPLICABLE, WITH HAWK DESIGN, INC. PRIOR TO INSTALLATION. THIS ITEM WILL ONLY APPLY IF SO SPECIFIED ON DRAWINGS. BOULDERS SIZES TO BE STOCKPILED WILL RANGE FROM TWO TO FIVE FEET IN DIAMETER. SEE APPROPRIATE DETAIL FOR INSTALLATION COORDINATION.
- I.15) <u>SLEEVES:</u> LANDSCAPE OR SITE CONTRACTOR SHALL PLACE INDIVIDUAL SLEEVES FOR LIGHTING AND IRRIGATION UNDER ANY PROPOSED WALKWAY OR VEHICULAR ROADWAY PRIOR TO INSTALLATION.

  COORDINATE SLEEVE LOCATIONS WITH IRRIGATION AND LIGHTING CONTRACTORS PRIOR TO
- I.16) DO NOT CLOSE OR OBSTRUCT ANY STREET, SIDEWALK, ALLEY OR PASSAGEWAY WITHOUT PRIOR NOTIFICATION AND PERMISSION. CONDUCT OPERATIONS AS TO INTERFERE AS LITTLE AS POSSIBLE WITH THE USE ORDINARILY MADE OF ROADS, DRIVEWAYS, ALLEYS, SIDEWALKS OR OTHER FACILITIES NEAR ENOUGH TO THE WORK TO BE EFFECTED THEREBY.

#### **Planting Materials:**

- 2.1 PLANTING MATERIAL ITEMS IN SECTION 2.0 ARE TO BE INCORPORATED DURING PLANT INSTALLATION UNLESS OTHERWISE DEEMED UNNECESSARY IN ACCORDANCE WITH SOIL TEST RECOMMENDATIONS. SEE SECTION 3.1.
- MULCH MULCH WILL BE DOUBLE-SHREDDED PINE BARK MULCH.
- TREES AND SHRUBS SHALL RECEIVE AN EVEN 3" MULCH LAYER.
   GROUNDCOVERS, PERENNIALS AND ANNUALS SHALL RECEIVE AN EVEN 2" MULCH LAYER.
- MANURE- TO BE WELL ROTTED, ODORLESS, UNLEACHED COW MANURE, CONTAINING NOT MORE THAN 15% BEDDED MATERIALS SUCH AS STRAW, WOOD CHIPS OR SHAVINGS, AGED NOT LESS THAN TWO YEARS OLD.
- HERBICIDE- A PRE-EMERGENCE WEED KILLER IS TO BE USED ON ALL LAWN AND PLANTING AREAS PRIOR TO INSTALLATION AS PER MANUFACTURER'S SPECFICATIONS. \*HERBICIDES ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.
- FERTILIZER- ALL TREES AND SHRUBS TO HAVE SLOW RELEASE PACKET OR PELLET PLACED INTO THE PLANT PIT WITH A MINIMUM ANALYSIS OF 10-10-10. ALL GROUNDCOVERS, PERENNIALS AND ANNUALS ARE TO RECIEVE A BROADCAST APPLICATION OF A 14-14-14 FERTILIZER AT 3 LB PR 100 SQ. FT. APPLY AS PER MANUFACTURER'S INSTRUCTIONS. \*FERTILIZERS ARE NOT TO BE APPLIED IN RESTRICTED CONSERVATION AREAS.
- TOPSOIL- ACCEPTABLE TOPSOIL SHALL BE FERTILE, FRIABLE NATURAL LOAM, UNIFORM IN COMPOSITION, FREE OF STONES, LIMBS, PLANTS AND THIER ROOTS, DEBRIS AND OTHER EXTRANEOUS MATTER OVER ONE INCH IN DIAMETER. THE SOIL SHALL BE CAPABLE OF SUSTAINED PLANT GROWTH AND HAVE A 5% MINIMUM ORGANIC CONTENT. IN SITUATIONS WHICH REQUIRE A CUSTOM TOPSOIL OR STRUCTURAL SOIL, THE SOIL MIXTURE SPECIFICATION WILL BE PROVIDED BY THE LANDSCAPE ARCHITECT.
- SOIL AMENDMENTS: APPLY AS NECESSARY ACCORDING TO SOIL TEST RESULTS, AS PER MANUFACTURES
- ANTI-DESICCANT- "WILT PRUF" NCF OR EQUAL APPLY AS PER MANUFACTURERS' SPECIFICATIONS.

#### **Plant Installation:**

- 3.1) SOIL TESTING: LANDSCAPE CONTRACTOR SHALL PROVIDE A CERTIFIED SOIL ANALYSIS PRIOR TO ANY PLANT INSTALLATION TO DETERMINE ANY NECESSARY AMENDMENTS TO THE EXISTING SOIL CONDITIONS FOR SEEDING AND PLANTING. THE ANALYSIS WILL ALSO BE REQUIRED FOR ESTABLISHING THE FERTILIZER PROGRAM REQUIRED. COORDINATE RESULTS AND PROVIDE WRITTEN RECOMMENDATIONS TO HAWK DESIGN, INC. 15 DAYS PRIOR TO INSTALLATION.
- 3.2) ALL PLANTS SHALL BE TRANSPORTED TO THE SITE IN COVERED TRUCKS, TARPAULIN COVERS SHALL BE UTILIZED TO PREVENT WIND DAMAGE OF LOAD.
- 3.3) DELIVER PLANT MATERIALS IMMEDIATELY PRIOR TO PLACEMENT. KEEP PLANT MATERIALS MOIST. DO NOT STORE PLANT MATERIAL ON PAVED AREAS. ROOTS OR BALLS SHALL BE PROTECTED FROM THE SUN OR DRYING WINDS. AS REQUIRED BY TEMPERATURE OR WIND CONDITIONS, APPLY ANTI-DESICCANT EMULSION TO PREVENT DRYING OUT OF PLANT MATERIALS.

#### 3.4) CONDITIONS FOR PLANT REJECTION:

- A) REJECT PLANTS WHEN BALL OF EARTH SURROUNDING ROOTS HAS BEEN CRACKED OR BROKEN PREPARATORY TO OR DURING THE PROCESS OF PLANTING.
- B) WHEN BURLAP, STAVES AND ROPES REQUIRED IN CONNECTION WITH TRANSPLANTING HAVE BEEN DISPLACED PRIOR TO ACCEPTANCE.
- C) WIND DAMAGED PLANT MATERIAL FROM POOR TARPAULIN COVER PROCEDURES ARE SUBJECT TO REJECTION.
- 3.5) ALL PLANT MATERIAL, WHICH CANNOT BE PLANTED IMMEDIATELY ON DELIVERY, SHALL BE SET ON THE GROUND IN A SHADED LOCATION AND SHALL BE TEMPORARILY PROTECTED WITH SOIL OR OTHER ACCEPTABLE MATERIAL. TEMPORARY WATERING OR IRRIGATION SHALL BE INCORPORATED AND REGULARLY CONDUCTED ON PLANTINGS IN HOLD AREAS.
- 3.6) IN CASE OF CONFLICTS DURING CONSTRUCTION WITH UTILITIES, ROCK MATERIALS, TREE ROOTS OR OTHER OBSTRUCTIONS FOR THE EXCAVATION OF SHRUB BEDS AND TREE PITS. CONTACT LANDSCAPE ARCHITECT FOR APPROVED ALTERNATE LOCATIONS.
- 3.7) SOIL PERMABILITY: TEST DRAINAGE OF PLANTING BEDS AND PITS BY FILLING WITH WATER TWICE IN SUCCESSION. CONDITIONS PERMITTING THE RETENTION OF WATER FOR MORE THAN 24 HOURS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

#### 3.8) SOIL EXCAVATIONS:

- A) EXCAVATE TREE PITS AND SHRUB BEDS TO DEPTHS REQUIRED BY PLANTING DETAILS. ALL PITS SHALL BE CIRCULAR IN OUTLINE, EXCEPT FOR WHOLE BEDS. SEE APPROPRIATE PLANTNIG DETAILS.
- B) SOIL EXCAVATIONS FOR BALLED & BURLAP AND CONTAINER PLANTINGS MUST BE NO LESS THAN 2X ROOT BALL DIAMETER, SEE PLANTING DETAILS. IF QUESTIONABLE SUBSURFACE SOIL CONDITIONS EXIST SUCH AS POOR DRAINAGE CONDITIONS, RUBBLE OR OBSTRUCTIONS, REPORT TO THE LANDSCAPE ARCHITECT AND CONSTRUCTION MANAGER BEFORE PLANTING.

#### 3.9) GRADING:

- A) VERIFY GRADES PRIOR TO PLANTING, THE CONTRACTOR SHALL VERIFY THAT CONSTRUCTED GRADES ARE AS INDICATED ON PLANS. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF ADJUSTMENTS TO PLANT PLACEMENT MAY BE REQUIRED DUE TO FIELD CONDITIONS AND FINAL GRADING.
- B) POSITIVE DRAINAGE SHALL BE MAINTAINED AWAY FROM AND AROUND BUILDINGS (REFER TO ENGINEERS GRADING PLANS). REPORT ANY CONFLICTS TO HAWK DESIGN, INC. PRIOR TO INSTALLATION.
- C) FINISH GRADE OF PLANTINGS SHALL BE EQUIVALENT TO FORMER EXISTING GRADE OF PLANT IN THE NURSERY.
- 3.10) BALLED AND BURLAPED (B\$B) MATERIALS:

  A) CUT WIRE BASKETS ONCE IN THE PLANT PIT AND PEEL WIRE BACK.
- B) TAGS AND TWINE ARE TO BE REMOVED AND BURLAP IS TO BE ROLLED BACK ONE-THIRD ON ALL B&B PLANT MATERIAL. ANY SYNTHETIC BURLAP SHALL BE COMPLETELY REMOVED FROM ANY PLANT MATERIAL

#### Plant Installation Cont'd

- 3.11) CONTAINER GROWN STOCK: SHALL BE REMOVED FROM CONTAINER BY CUTTING CONTAINER AWAY TO AVOID ROOT DAMAGE TO PLANT ROOT SYSTEM. IF PLANT ROOT IS BOUND, SLICE ROOT BALLS APPROXIMATELY 2" DEEP WITH KNIFE OR SHARP SPADE.
- 3. I 2) DO NOT USE MUDDY OR FROZEN SOIL TO BACKFILL PLANTINGS.
- 3.13) WATERING: THOROUGHLY WATER UNTIL SOIL IS SATURATED AROUND ALL TREES AND SHRUBS AFTER PLANTING AND THROUGHOUT THE TIME PERIOD UNTIL FINAL ACCEPTANCE FROM CLIENT. DURING DRY CONDITIONS, WATER AS REQUIRED TO MAINTAIN PLANTS IN A WILT-FREE CONDITION.
- 3.14) PRUNING: TREES SHALL BE PRUNED TO BALANCE TOP GROWTH WITH ROOTS AND TO PRESERVE THEIR NATURAL CHARACTER AND TYPICAL GROWTH HABIT. PRUNING SHALL BE RESTRICTED IN GENERAL TO THE SECONDARY BRANCHES AND SUCKER GROWTH. ALL CUTS TO BE FLUSH WITH TRUNK, DO NOT CUT A LEADER. THE LANDSCAPE ARCHITECT WILL REJECT ALL PLANTS DISFIGURED BY POOR PRUNING PRACTICES. ALL PRUNING CUTS SHALL REMAIN UNPAINTED.
- 3.15) <u>STAKING AND GUYING</u>: ALL TREES TO BE STAKED AND GUYED WITHIN 48 HOURS OF PLANTING, METHODS AND MATERIALS FOR STAKING AND GUYING ARE ILLUSTRATED IN INDIVIDUAL PLANTING DETAILS. NEATLY FLAG ALL GUY WIRES WITH ROT RESISTANCE YELLOW TREE MARKING RIBBON.
- 3.16) STAKE OUT PLANT LOCATIONS: PRIOR TO PLANTING THE CONTRACTOR SHALL LAYOUT THE EXTENT OF THE PLANT BEDS AND PROPOSED LOCATIONS FOR B\$B PLANTS FOR REVIEW BY THE OWNER AND LANDSCAPE ARCHITECT.

#### 3.17) PLANTING FIELD ADJUSTMENTS

- A) THE CONTACTOR IS TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITES.
- B) LARGE GROWING PLANTS ARE NOT TO BE PLANTED IN FRONT OF WINDOWS OR UNDER BUILDING OVERHANGS. NOTIFY THE LANDSCAPE ARCHITECT OF DISCREPANCIES IN PLANTING PLAN VS. FIELD CONDITIONS.
- C) SHRUBS PLANTED NEAR HVAC UNITS ARE TO BE LOCATED SO THAT SHRUBS AT MATURITY WILL MAINTAIN ONE FOOT (I') AIRSPACE BETWEEN THE UNIT AND THE PLANT. ANY PLANTING SHOWN ADJACENT TO CONDENSER UNITS SHALL BE PLANTED TO SCREEN THE UNITS. SHOULD THE CONDENSER UNITS BE INSTALLED IN LOCATIONS DIFFERENT FROM THOSE SHOWN ON THE PLAN, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE LANDSCAPE ARCHITECT AND INSTALL THE MATERIAL AROUND THE CONDENSERS AND ADJUST THE OTHER PLANTING ACCORDINGLY.
- 3.18) PLANT BED EDGES/LINES: GROUPS OF SHRUBS, PERENNIALS AND GROUNDCOVERS SHALL BE PLACED IN A CONTINUOUS MULCH BED WITH SMOOTH CONTINUOUS LINES. ALL MULCHED BED EDGES SHALL BE CURVILINEAR IN SHAPE, FOLLOWING THE CONTOUR OF THE PLANT MASS. TREES LOCATED WITHIN 4 FEET OF PLANT BEDS SHALL SHARE THE SAME MULCH BEDS.
- 3.19) A.D.A. THE AMERICAN WITH DISABILITIES ACT STANDARDS REQUIRE THAT A 7 FOOT VERTICAL CLEARANCE BE MAINTAINED FROM TREE BRANCHES TO FINISHED GRADE WHERE PEDESTRIANS SIDEWALKS AND/OR TRAILS ARE LOCATED. THE CONTRACTOR IS TO ADJUST TREE PLANTINGS IN FIELD TO SLIGHTLY MINIMIZE BRANCH OVERHANG AND COMPLY WITH THE A.D.A. ACT.
- 3.20) TREE SPACING MINUMUMS: TREES SHALL BE LOCATED A MINIMUM OF 4 FEET FROM RETAINING WALLS AND WALKS WITHIN THE PROJECT. IF A CONFLICT ARISES BETWEEN ACTUAL SIZE OF AREA AND PLANS, THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE MATERIALS.

#### **Seeding and Sodding:**

- 4.1) SEEDING OF LAWN AREAS: GRASS SEED APPLICATION SHALL BE SPREAD AT THE RATE OF 5 LBS. PER 1,000 SQUARE FEET, SEEDING SHALL BE ACCOMPLISHED BY MEANS OF A HYDRO-SEEDING PROCESS.
- 4.2) WATERING OF SEEDED AREAS: 24 HOURS AFTER HYDRO SEEDING, THE CONTRACTOR SHALL WATER THE SEEDED AREA LIGHTLY AND SUFFICIENTLY TO A DEPTH OF TWO INCHES (2") 2 TIMES A DAY (BETWEEN THE HOURS OF 7 PM AND 7 AM), UNTIL THE SEEDS ARE ESTABLISHED.
- 4.3) SEEDED AREA PROTECTION: THE CONTRACTOR SHALL ERECT SUITABLE SIGNS AND BARRICADES NOTIFYING THE PUBLIC TO KEEP OFF THE SEEDED AREAS UNTIL WELL ESTABLISHED. ANY TRAFFIC DAMAGE AND VANDALISM THAT MAY OCCUR PRIOR TO FINAL ACCEPTANCE OF THE WORK SHALL BE REPAIRED AND RESEEDED AT THE OWNER'S EXPENSE. ANY DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.
- 4.4) LAYING OF SOD: A KENTUCKY BLUEGRASS SOD MIX BY LOCAL SOURCE AS SELECTED BY CONTRACTOR, SHALL BE FRESHLY CUT FROM THE SAME FIELD WITH 1/2 -3/4 INCHES OF SOIL. SOD SHALL BE LAID IMMEDIATELY WITH ANY STORED SOD BEING UNROLLED GRASS SIDE UP AND KEPT WATERED. LAY COURSES TIGHTLY TOGETHER WITHOUT OVERLAPPING WITH THE JOINTS STAGGERED. AFTER SODDING IS COMPLETE, ROLL LIGHTLY. THE CONTRACTOR SHALL WATER THE SODDED AREAS TO A DEPTH OF AT LEAST SIX INCHES AFTER THE SODDING PROCESS. OWNER SHALL THEN BE RESPONSIBLE FOR WATERING. THE FREQUENCY SHALL BE DETERMINED BY RAIN FALL AND WINDS WITH THE UPPER TWO OR THREE INCHES OF SOIL NOT DRYING OUT MARKEDLY.
- 4.5) SODDED AREA: INSPECTION AND ACCEPTANCE: FOUR WEEKS AFTER CONTRACTOR COMPLETES INSTALLATION, LANDSCAPE ARCHITECT SHALL INSPECT THE LAWN TO DETERMINE THE ACCEPTABILITY OF THE INSTALLATION. SODDED AREAS FAILING TO SHOW ADEQUATE ROOTING INTO THE SUBSOIL, OVERLAPPING, COURSE SEPARATION, UNEVENNESS OF THE SURFACE, UNEVEN COURSE COLOR AND EXCESSIVE BROADLEAF WEED CONTENT SHALL BE REPLACED. THE COST SHALL BE BORNE BY THE CONTRACTOR EXCEPT WHERE VANDALISM OR NEGLECT ON THE PART OF OTHERS NOT UNDER THE CONTRACTORS CONTROL HAS RESULTED IN DAMAGE.
- 4.6) FINAL APPROVAL: SEEDED AND SODDED AREAS WILL RECEIVE FINAL APPROVAL IF COVERAGE IS FULL AND CONSISTENT, FREE OF BARE SPOTS AND WEED FREE. WHEN GRASS IS CUT AT 2" HEIGHT NO SOIL SHOULD BE VISIBLE. SOD AREAS MUST HAVE RECEIVED A MINIMUM OF TWO MOWINGS. AREAS SODDED AFTER NOVEMBER IST WILL BE ACCEPTED THE FOLLOWING SPRING ONE MONTH AFTER THE START OF THE GROWING SEASON, IF THE ABOVE CRITERIA HAS BEEN MET.

#### Maintenance:

- 5.1) MAINTENANCE DURING INSTALLATION: MAINTENANCE OPERATIONS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS PLANTED AND SHALL CONTINUE AS REQUIRED UNTIL FINAL ACCEPTANCE AND THEN FOR THE GUARANTEE PERIOD. PLANTS SHALL BE KEPT IN A HEALTHY, GROWING CONDITION BY WATERING, PRUNING, SPRAYING, WEEDING AND ANY OTHER NECESSARY OPERATIONS OF MAINTENANCE. PLANT SAUCERS AND BEDS SHALL BE KEPT FREE OF WEEDS, GRASS AND OTHER UNDESIRED VEGETATION. PLANTS SHALL BE INSPECTED AT LEAST ONCE PER WEEK BY THE CONTRACTOR DURING THE INSTALLATION PERIOD AND ANY NEEDED MAINTENANCE IS TO BE PERFORMED PROMPTLY.
- 5.2) GRASS AND WEED CONTROL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING ALL GRASS AROUND LANDSCAPE BEDS AND INDIVIDUAL TREES AND SHRUBS UNTIL FINAL ACCEPTANCE. WEED CONTROL AREAS SHALL INCLUDE ALL LANDSCAPE BEDS AND THE AREA WITHIN 2 FEET OF THE OUTER EDGE OF THE MULCH AREA OR INDIVIDUAL TREE/SHRUBS.
- 5.3) THE CONTRACTOR SHALL WATER, FERTILIZE, WEED, CULTIVATE, REMULCH, SPRAY TO CONTROL INSECT INFESTATION AND DISEASE AND PERFORM ANY OTHER GOOD HORTICULTURAL PRACTICE NECESSARY TO MAINTAIN THE PLANTS IN A LIVING HEALTHY CONDITION UPON THE TIME FOR TERMINATION OF HIS RESPONSIBILITY FOR CARE AS SET OUT HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTS THROUGHOUT LIFE OF THE CONTRACT.
- 5.4) ALL PLANTS STOLEN, DAMAGED OR DESTROYED BY FIRE, AUTOMOBILES, VANDALISM OR ANY OTHER CAUSE, WITH THE EXCEPTION OF PLANTS DAMAGED OR DESTROYED BY THE OWNERS MAINTENANCE OPERATIONS, SHALL BE REPLACED BY THE OWNER PRIOR TO THE DATE OF FINAL ACCEPTANCE.
- 5.5) LANDSCAPE CONTRACTOR SHALL PREPARE MAINTENANCE SPECIFICATIONS AND SCHEDULE ANNUAL CARE OF ALL PLANTED AND LAWN AREAS INCLUDING FERTILIZING, WEEDING, MULCHING, BED EDGING, PRUNING AND PEST PREVENTION AND TREATMENT.

#### Plant Material Guarantee:

- \*CONTRACTOR SHALL GUARANTEE IN WRITING ALL PLANT MATERIAL AND LANDSCAPE IMPROVEMENTS FOR A PERIOD OF ONE YEAR. THE GUARANTEE IS TO INCLUDE THE FOLLOWING:
- 6.1) INSPECTIONS: PERFORM PERIODIC INSPECTIONS DURING GUARANTEE PERIOD WITH RESULTING WRITTEN REPORTS TO OWNER, PROJECT ADMINISTRATOR AND LANDSCAPE ARCHITECT STATING CONDITIONS AND RECOMMEND MAINTENANCE MODIFICATIONS. THE CONTRACTOR MUST CONTACT THE OWNER AND LANDSCAPE ARCHITECT AT LEAST 10 DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S).
- 6.2) REMOVAL AND REPLACEMENT OF PLANTS PROVIDED BY CONTRACTOR TO BE DONE WITHIN THIRTY DAYS OF NOTIFICATION BY OWNER OF THEIR UNSATISFACTORY CONDITION DURING GROWING SEASONS. REPLACEMENT MATERIALS MUST BE EQUAL IN TYPE AND SIZE PER THE PROJECT'S PLANT LIST.
- 6.3) WHEN REPLACEMENT PLANT SPECIES IS EITHER NOT READILY AVAILABLE OR NO LONGER SUITABLE TO EXISTING SITE CONDITIONS WRITTEN NOTICE RECOMMENDATION OF SUBSTITUTION TO BE PROVIDED TO THE OWNER AND LANDSCAPE ARCHITECT WITHIN FIFTEEN DAYS FOR APPROVAL.
- 6.4) REMOVAL OF TREE'S SUPPORTS AND DEAD LIMBS PRIOR TO END OF GUARANTEE INSPECTION PERIOD.
- 6.5) CONTINUE WITH MAINTENANCE, SEE SECTION 5.0
- 6.6) GUARANTEE SHALL BEGIN UPON DATE OF FINAL ACCEPTANCE FROM OWNER AND WILL CONTINUE FOR ONE YEAR.

#### Site Cleanup:

- 7.1) SITE WORK CONDITIONS: EXCESS WASTE MATERIAL SHALL BE REMOVED DAILY WHEN PLANTING IN AN AREA HAS BEEN COMPLETED, THE AREA SHALL BE CLEARED OF ALL DEBRIS, SOIL PILES AND CONTAINERS DAILY. WHERE EXISTING GRASS AREAS HAVE BEEN DAMAGED OR SCARRED DURING PLANTING OPERATIONS, THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS AT HIS EXPENSE.
- 7.2) CLEAN PAVED AREAS UTILIZED FOR HAULING OR EQUIPMENT STORAGE AT END OF EACH WORKDAY.
- 7.3) MAINTAIN VEHICLES AND EQUIPMENT IN CLEAN CONDITION TO PREVENT SOILING OF ROADS, WALKS OR OTHER PAVED OR SURFACED AREAS.
- 7.4) REMOVE PROTECTIVE BARRIERS AND WARNING SIGNS AT TERMINATION OF LAWN ESTABLISHMENT.

#### **Irrigation Notes:**

- 8.1) ALL IRRIGATION SYSTEM COMPONENTS SHALL BE SUPPLIED BY REGIONALLY AUTHORIZED DISTRIBUTORS TO PROVIDE SINGLE SOURCE RESPONSIBILITY FOR WARRANTY SERVICE AND OPERATIONS TO CONFORM TO SPECIFICATIONS IN ALL RESPECTS.
- 8.2) THE CONTRACTOR IS TO SUBMIT PLANS PREPARED BY A IRRIGATION SPECIALIST TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.
- 8.3) ALL LINE VOLTAGE TO CONTROLLER AND ASSOCIATED BREAKER, CONDUIT ETC TO BE PERFORMED BY A LICENSED ELECTRICIAN.

8.4) ALL WIRES FOR RAIN SENSOR TO BE RUN IN SCHEDULE 40 PVC CONDUIT FOR APPLICATIONS IN EXPOSED

- AREAS UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT.

  8.5) SLEEVES TO BE COORDINATED, LOCATED AND INSTALLED UNDER ALL HARDSCAPE FEATURES SUCH AS
- WALKS, WALLS AND DRIVEWAYS. THE CONTRACTOR IS TO IMMEDIAETLY NOTIFY THE LANDSCAPE ARCHITECT OF ALL CONFLICT AND DISCREPANCIES.

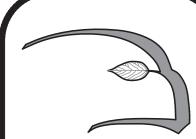
  8.6) CONTRACTOR WILL REVIEW WITH CLIENT ALL IRRIGATION PROCEDURES AND PROCESSES (i.e. TIMERS,
- DOCUMENTATION FOR OPERATION OF IRRIGATION SYSTEM.

  8.7) THE CONTRACOR IS TO PROVIDE WIRES FOR FUTURE EXPANSION IN 16" DIAMETER VALVE BOX AS DIRECTED

ZONES AND ALL OTHER ITEMS INVOLVED W/ THE IRRIGATION SYSTEM) AND PROVIDE NECESSARY

BY THE LANDSCAPE ARCHITECT OR CLIENT.

8.8) UNLESS INDICATED OTHERWISE, ALL PLANT BEDS ARE TO BE IRRIGATED WITH DRIP IRRIGATION, ALL LAWN AREAS TO BE IRRIGATED WITH SPRAY HEADS. MODELS/TYPES T..B.D. AND VERIFIED BY LANDSCAPE ARCHITECT AND IRRIGATION CONTRACTOR



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HAWK DESIGN, INC. 2024

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Date: 9/23/24

Condominiums

Garnsey

Henry

Medway,

116.,

evelopment,

Cape

**Revisions:**Num. Date Description

OWNER/APPLICANT METAL BEARD, INC. 16 MOWRY STREET MENDON, MA 01756

ZONING DISTRICT

VILLAGE-RESIDENTIAL (VR)

MULTI-FAMILY HOUSING

OVERLAY DISTRICT (MHOD)

RABBIT HILL NATIONAL

REGISTER HISTORIC DISTRICT

FOR REGISTRY USE

ASSESSORS PARCEL 47-113

DEED REFERENCE BOOK 41922, PAGE 504

I HEREBY CERTIFY THAT THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS, AND THE LINES OF THE STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.

CERTIFY THAT THIS PLAN HAS BEEN
REPARED IN CONFORMITY WITH THE
ULES AND REGULATIONS OF THE
EGISTERS OF DEEDS OF THE
OMMONWEALTH OF MASSACHUSETTS

REGISTERED LAND SURVEYOR

DATE APPROVED: \_\_\_

DATE ENDORSED: \_\_\_\_\_

MEDWAY PLANNING & ECONOMIC
DEVELOPMENT BOARD



Drawn By: BNL Checked By: BN

Planting Specifications

Scale: As Noted

heet: D2

Base information provided electronically by: Legacy Engineering of Millis, MA