

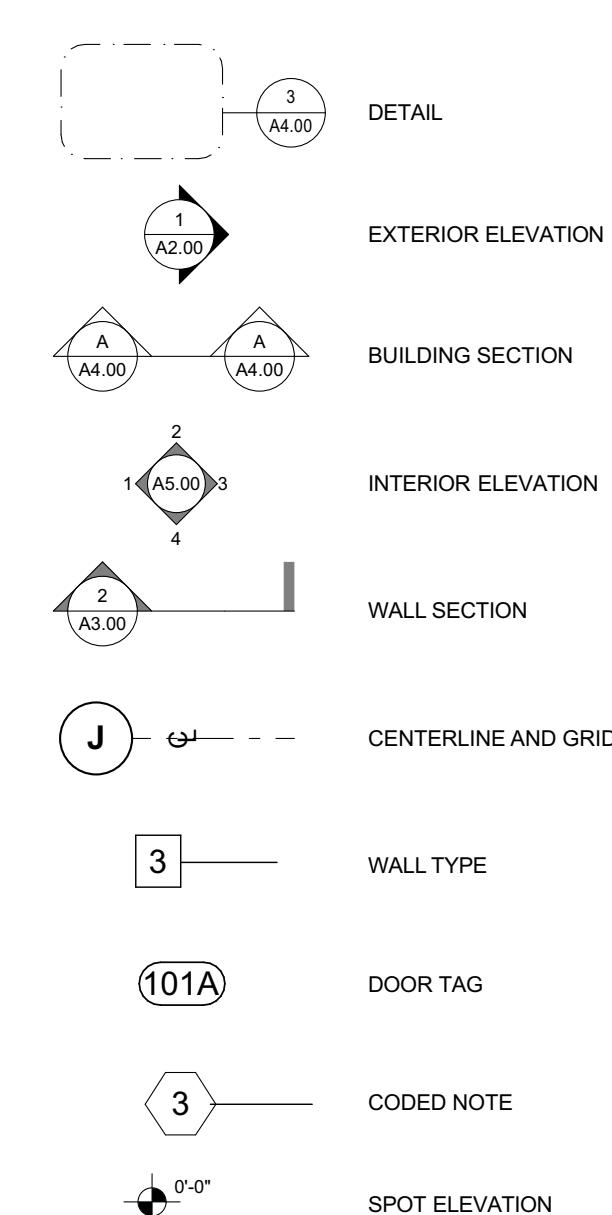
VILLAGE DENTAL



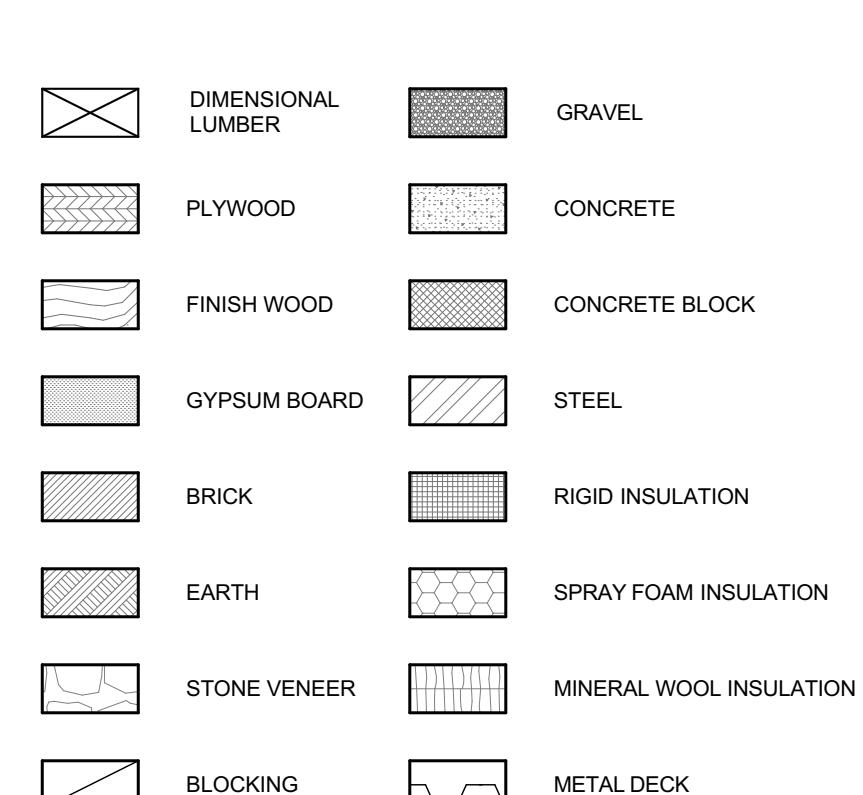
ABBREVIATIONS

ABV	Above	ABOVE	HC	HOLLOW CORE
AC	AIR CONDITIONING	AC	HDWR.	HARDWARE
AFF	ABOVE FINISHED FLOOR	FM	HOLLOW METAL	HEATING, VENTILATION, AND
ALT	ALTERNATE	HVAC	HT	HEIGHT
ANU	ANNUAL	HT	HT	HEIGHT
ALUM	ALUMINUM	HT	HT	HEIGHT
APPROX.	APPROXIMATELY	INSU	INSULATION	
ARCH	ARCHITECTURAL	JST	JOIST	
ASPH	ASPHALT	JST	JOIST	
BD	BOARD	LAM	LAMINATED	
BLDG	BUILDING	LF	LINEAR FOOT	
BRG	BEARING	MAS	MASONRY	
BOTT	BOTTOM	MATL	MATERIAL	
BTW	BETWEEN	MAX	MAXIMUM	
CF	CUBIC FEET	MCH	MACHICAL	
CIP	CAST IN PLACE	MFG.	MANUFACTURER	
CL	CONTROLS	MIS	MATERIAL	
CLG	CLEARING	MIS	MISCELLANEOUS	
CLC	CLEAR	MIS	MASONRY OPENING	
CONU	CONCRETE MASONRY UNIT	MIS	MOUNTED	
CONC	CONCRETE	MTL	METAL	
CO	CLEAN OUT	NTS	NOT SCALED	
CONT	CONTINUOUS	NTS	NOT TO SCALE	
DBL	DOUBLE	O/	OVER	
DEPT	DEPARTMENT	O.C.	ON CENTER	
DIA	DIAMETER	OPN	OPENING	
DIM	DIMENSION			
DN	DRIVE			
DR	DOOR	PREFAB	PREFABRICATED	
DS	DRIP	PLYWD	PLYWOOD	
DT	DRAWING	PLAM	PLASTIC LAMINATE	
DWG	DRAWING	PR	PAIR	
EA	EACH	PSI	POUNDS PER SQUARE INCH	
ELEC	ELECTRICAL	REF	REFERENCE	
EQ	EQUAL	RM	ROOM	
EX4	EXIST	RO	ROUGH OPENING	
EXIST	EXISTING	REQ	REQUIRED	
EXP	EXPOSED			
EXT	EXTERIOR	SC	SOLID CORE	
FD	FLOOR DRAIN	SECT	SECTION	
FIN	FINISH	SM	SMALL	
FLR	FLOOR	STRUC	STRUCTURAL	
FTG	FLUTING	TYP	TYPICAL	
FUR	FURRING	UNO	UNLESS NOTED OTHERWISE	
GALV	GALVANIZED	W/	WITH	
GA	GAUGE	WWF	WELDED WIRE FABRIC	
GC	GENERAL CONTRACTOR			
GYP BD	GYPSUM BOARD			
GYP	GYPSUM			

SYMBOLS



MATERIALS LEGEND



PROJECT GENERAL NOTES

CONTRACTOR SHALL PROVIDE ALL MATERIALS AND WORKMANSHIP FOR ALL CONSTRUCTION REQUIRED HEREIN AND SHALL BE IN ACCORDANCE WITH THE:

COMMERCIAL BUILDING CODE: 2024 OF OHIO (IBC 2024 + AMENDMENTS)
EXISTING BUILDING CODE: 2024 OF OHIO (IEBC 2021 + AMENDMENTS)

RESIDENTIAL BUILDING CODE: 2019 OF OHIO (IRC 2018 + AMENDMENTS)

MICROBIOLOGICAL CODE: 2024 OF OHIO (IFMC 2024 + AMENDMENTS)

ELECTRICAL CODE: 2024 OF OHIO (NEPA70, 2023 + AMENDMENTS)

PLUMBING CODE: 2024 OF OHIO (IPC 2021 + AMENDMENTS)

ENERGY CODE: 2024 OF OHIO (IECC 2021 + AMENDMENTS)

ACCESSIBILITY CODE: 2017 OF OHIO (A117.1.2017 + AMENDMENTS)

FUEL AND GAS CODE: 2021 OF OHIO (IFGC 2021 + AMENDMENTS)

FIRE CODE: 2017 OF OHIO

THE CONTRACTOR WILL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, TAXES, AND INSURANCE NECESSARY TO COMPLETE THE WORK INDICATED AND/OR IMPLIED IN THE CONSTRUCTION DOCUMENTS UNLESS NOTED OTHERWISE AND WILL COORDINATE THE WORK RESPONSIBILITIES OF ALL SUBCONTRACTORS AND VENDORS AND SHALL BE RESPONSIBLE FOR THE WORK. THE PLANS AND SPECIFICATIONS ARE PART OF THE CONTRACT, WHETHER OR NOT SPECIFICALLY DOCUMENTED.

ALL WORK WILL CONFORM TO THE CURRENT OHIO BUILDING, MECHANICAL & PLUMBING CODES, AS WELL AS THE CURRENT NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL OTHER APPLICABLE CITY CODES, LOCAL LAWS, AND AUTHORITIES HAVING JURISDICTION. CODE STANDARDS AND PUBLICATIONS OF PRIVATE ORGANIZATIONS, AND THE CONTRACTOR'S OWN PRACTICES, WHICH ARE NOT SHOWN IN THE DRAWINGS, WILL BE CONSIDERED TO BE THOSE IN EFFECT AT THE TIME OF THE CONTRACT AWARD.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONTROLLED INSPECTIONS AND ANY TECHNICAL TESTING REQUIRED FOR CONTROLLED INSPECTIONS AS STIPULATED BY ALL APPLICABLE CODES.

ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT WILL BE NEW AND FREE OF DEFECTS AND WILL BE SUPPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED AS DIRECTED BY THE RESPECTIVE MANUFACTURER, UNLESS SPECIFIED OTHERWISE.

THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY ERRORS, OMISSIONS, CONFLICTS, OR AMBIGUITIES IN THE DRAWINGS AND SPECIFICATIONS AND SHALL BE RESPONSIBLE FOR CORRECTING THE WORK, IF SUCH NOTICE IS NOT FURNISHED TO THE ARCHITECT. THE CONTRACTOR WILL BE DEEMED TO HAVE INSPECTED THE DRAWINGS AND SPECIFICATIONS AND TO HAVE FOUND THEM IN PROPER FORM FOR EXECUTION.

THE CONTRACTOR REPRESENTS THAT HE HAS HAD ADEQUATE ACCESS TO THE JOB SITE AND THE BUILDING AREA IN WHICH THE WORK IS TO BE PERFORMED. THAT HE HAS SATISFIED HIMSELF AS TO THE NATURE AND LOCATION OF THE WORK, INCLUDING ANY OBSTRUCTIONS, SCOPE OF WORK, ACTUAL LEVELS, THE EQUIPMENT AND FACILITIES NEEDED PRELIMINARY TO AND DURING THE EXECUTION OF THE WORK AND ALL OTHER CONDITIONS WHICH MAY AFFECT THE WORK. THAT HE HAS READ AND UNDERSTOOD THE CONTRACT AND THAT HE HAS STUDIED THE CONTRACT DOCUMENTS AND ALL OTHER DOCUMENTS PERTAINING TO THE INSTALLATION OF OTHER TRADES WHICH MAY INFLUENCE HIS WORK.

THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ALL RELATED COSTS FOR ANY AND ALL WORK DONE WITHOUT THE APPROVAL OF THE ARCHITECT IF SUCH WORK IS IN CONFLICT WITH THE CONTRACT, DRAWINGS, OR SPECIFICATIONS.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE SAFE WORKING CONDITIONS AT THE SITE, THE ARCHITECT AND OWNER WILL NOT BE DEEMED TO HAVE ANY RESPONSIBILITY OR LIABILITY IN CONNECTION HEREOF.

CONSTRUCTION OPERATIONS WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, ELECTRICAL, OR OTHER SERVICES TO ANY PORTION OF THE BUILDING OUTSIDE THE LIMITS OF THE CONSTRUCTION SITE.

THE CONTRACTOR WILL BE RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES CAUSED BY DEFECTIVE OR ILL TIMED WORK AT NO ADDITIONAL COST TO THE OWNER.

NO SUBSTITUTIONS ARE PERMITTED EXCEPT WHERE THE TERM "APPROVED EQUAL" APPEARS. ALL SUBSTITUTIONS MUST BE APPROVED IN WRITING BY THE ARCHITECT. THE CONTRACTOR IS TO SUBMIT SAMPLES OR CATALOG CUTS OF ALL VISIBLE MATERIALS AND EQUIPMENT FOR THE ARCHITECT'S APPROVAL PRIOR TO INSTALLATION.

CONTRACTOR TO MAINTAIN FULL SET OF PLANS AND INSTALLATION INSTRUCTIONS ON SITE.

PERFORM VISUAL INSPECTION OF ENVELOPE AND INSULATION TO MEET 2021 IECC, 402.5.1.5

"BUILDING ENVELOPE PERFORMANCE VERIFICATION" ITEM 2

PROJECT INFORMATION

TWO STORY COMMERCIAL ADDITION TO AN EXISTING HISTORIC STRUCTURE

KNOWN AS PART OF GREAT LOT NO. 56 OF HUDSON TOWNSHIP AND PART OF BLOCK NO. 3 IN SAID VILLAGE. THE EXISTING BUILDING IS LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION OF DIVISION STREET WITH THE EAST LINE OF EAST MAIN STREET WHICH POINT IS THE NORTHEWEST CORNER OF SAID BLOCK. THE EXISTING BUILDING IS LOCATED ON THE NORTHEAST CORNER OF THE INTERSECTION OF DIVISION STREET, S 89° 47' 00" E, 147.96 FEET TO AN IRON PIPE, THENCE WITH THE WEST LINE OF PREMISES SOLD TO HENSEN SLAGER S, 02° 29' 00" W, 30 FEET TO A POINT IN SAID LINE.

THENCE WESTERLY ALONG A LINE DRAWN AND EXTENDED FROM THE POINT OF DIVISION STREET TO A POINT IN THE EAST LINE OF EAST MAIN STREET, SAID BEING 30 FEET FROM THE POINT OF INTERSECTION OF THE SOUTH LINE OF DIVISION STREET WITH THE EAST LINE OF EAST MAIN STREET.

THENCE WITH THE EAST LINE OF EAST MAIN STREET N. 0° 13' 00" E 30 FEET TO THE PLACE OF BEGINNING.

CITY: HUDSON

COUNTY: SUMMIT

PARCEL #: 320737

ACRES: 0.1019

DISTRICT: 5 - PLAZA CORE DISTRICT HISTORIC DISTRICT

SETBACKS: FRONT YARD: A MIN. OF 75% OF THE FRONT WALL SHALL BE BUILT TO THE EDGE OF THE FRONT SIDE YARD: 10' EXCEPT WHEN ABUTTING A RESIDENTIAL USE THEN ITS 20' SIDE YARD: 0' EXCEPT WHEN ABUTTING A RESIDENTIAL USE THEN ITS 15'

MAX HEIGHT: 45'

ACTUAL HEIGHT: 23'-11"

USE: BUSINESS

CONSTRUCTION TYPE: V-B

PARKING: OFFICE = 1 SPACE / 400 SF, AND 1 SPACE FOR EACH 250 SF AS MAX. PERMITTED PARKING

REQUIRED = 2 SPACES

GROSS ADDITION BUILDING AREAS:

SQUARE FOOTAGE

FLOOR AREA

SECTION 101.2: EXCESS TRAVEL DISTANCE FOR OCCUPANCY, NOT SUPPRESSED IS 20'

DRAWING INDEX

* DENOTES SHEETS PRINTED IN COLOR

G1.00 COVER SHEET

C1.00 SITE PLAN

C-1.1 OVERALL PLAN

C-1.2 SWM PLAN

C-1.3 GENERAL NOTES

AS1.00a SITE PHOTOS

AS1.00b SITE PHOTOS

A1.00 ARCHITECTURAL SITE PLAN

L0.01 LANDSCAPE PLAN

L0.02 LANDSCAPE PLANTING DETAILS

L0.03 LANDSCAPE SPECIFICATIONS

L0.04 LANDSCAPE SPECIFICATIONS

L0.05 LANDSCAPE SPECIFICATIONS

L0.06 LANDSCAPE SPECIFICATIONS

L0.07 LANDSCAPE SPECIFICATIONS

L0.08 LANDSCAPE SPECIFICATIONS

A1.00 EXISTING FLOOR PLAN

A1.01 FLOOR PLANS

A3.00 EXTERIOR ELEVATIONS

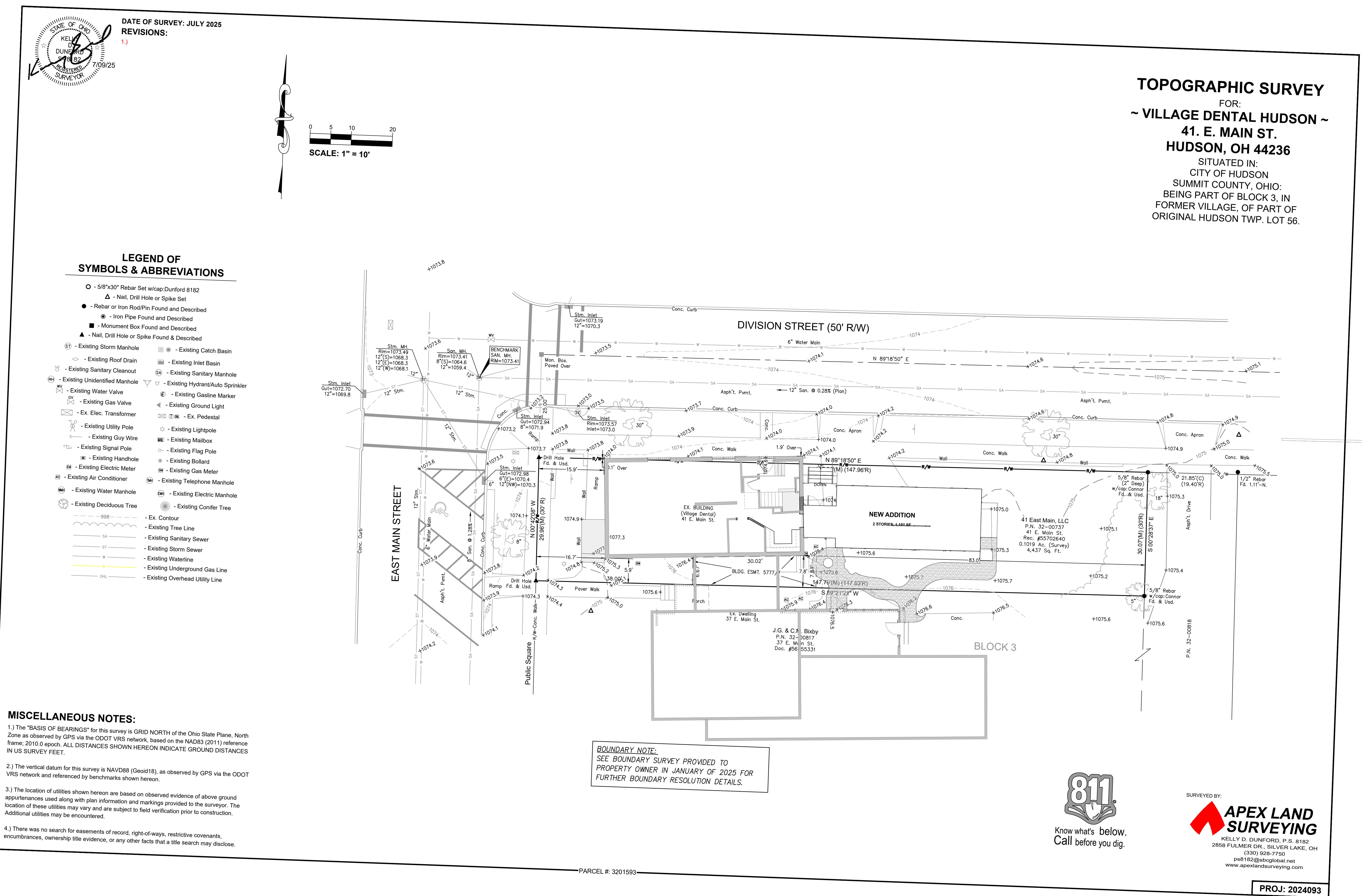
A4.00 BUILDING SECTIONS

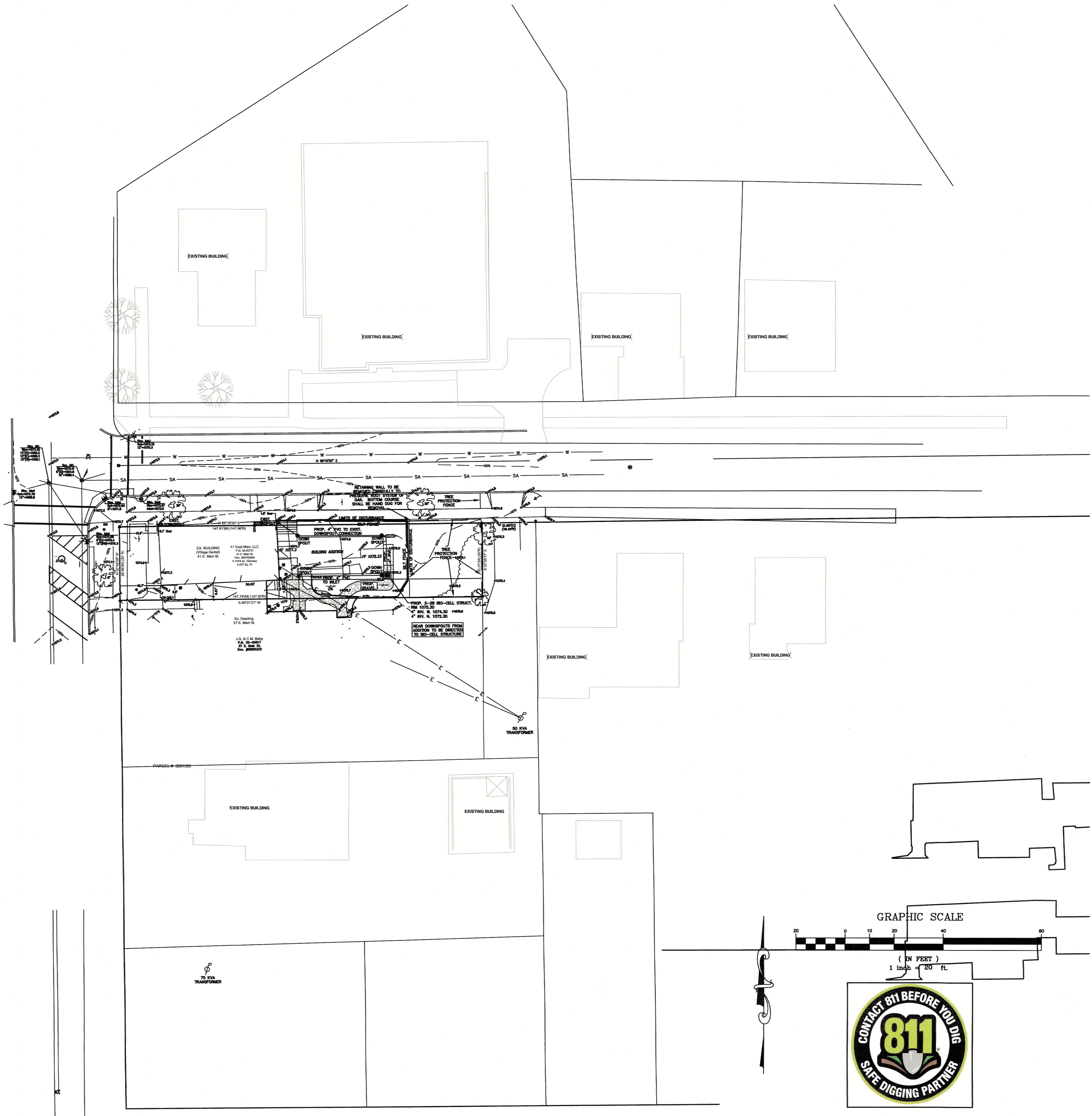
A4.01 BUILDING SECTIONS

A5.00 SPECIFICATIONS

A5.01 SPECIFICATIONS

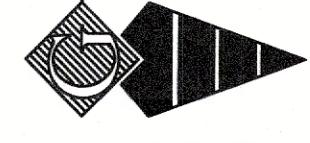
PROJECT #: 2501
ISSUE: AHB/R REVIEW 04-01-2025
VARIANCE SET: 04-17-2025
PLANNING COMMISSION09-15-2025
PLANNING COMMISSION10-27-2025
PLANNING COMMISSION12-17-2025
PLANNING COMMISSION12-27-2025





*P.P.N. 32-00737
41 EAST MAIN ST.
HUDSON - SUMMIT COUNTY - OHIO*

GUTOSKEY & ASSOCIATES INC.



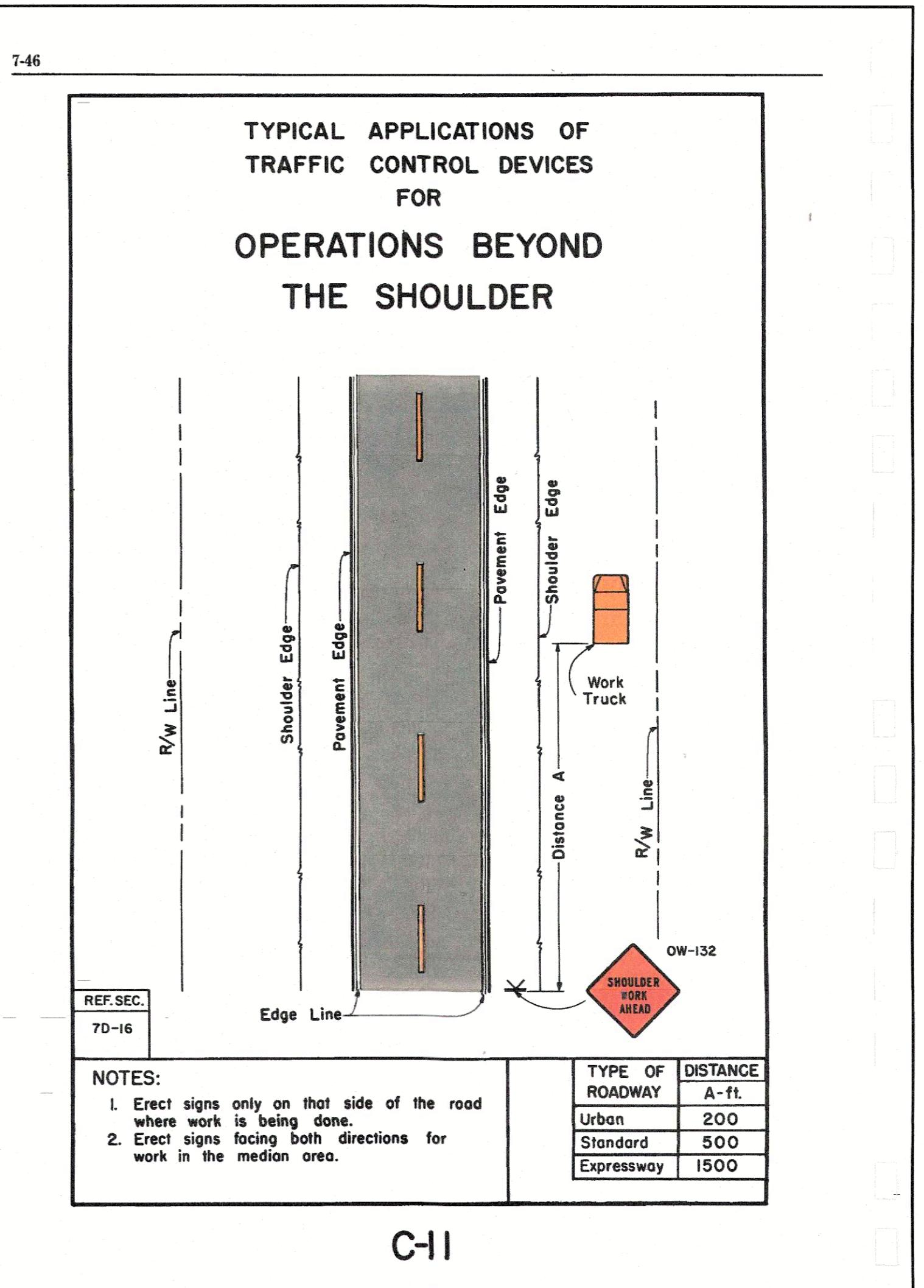
LL PLAN

A photograph of a handwritten signature in blue ink, "Joseph Gutoskey", and a circular registration stamp. The stamp is for the "STATE OF OHIO" and is a "REGISTERED PROFESSIONAL ENGINEER" with the name "JOSEPH GUTOSKEY" and the number "51851".

Date: 10/27/25
Scale: Hor. 1' = 20'
Vert. _____
Filename: _____
Checked By: _____
F.B. No.: _____
Sheet
C-1.1
CONTRACT No.
25-4246

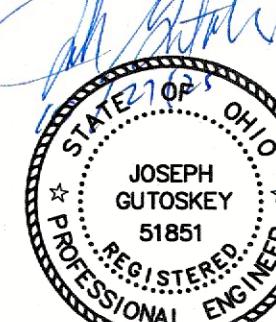
EXHIBIT A
GENERAL CONSTRUCTION NOTES

1. CONSTRUCTION OF THE SITE WORK AND UTILITIES SHALL BE GOVERNED BY THE CITY OF HUDSON'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE PROJECT.
3. THE CONTRACTOR MUST ALERT THE OHIO UTILITY PROTECTION SERVICES AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION IS TO BEGIN.
4. ALL EXISTING APPURTENANCES (UTILITY POLES, VALVES, HYDRANTS, MANHOLES, ETC.) ARE TO BE MAINTAINED BY THE CONTRACTOR UNLESS OTHERWISE SHOWN ON THE PLANS.
5. THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES ARE SHOWN AS THEY APPEAR ON EXISTING RECORDS OR FIELD LOCATED.
6. ALL KNOWN ABOVE AND UNDERGROUND SERVICES HAVE BEEN NOTED ON THE DRAWINGS. THE CONTRACTOR ACCEPTS FULL RESPONSIBILITY FOR ANY SERVICES DAMAGED DURING THE CONSTRUCTION OF THE PROJECT WHETHER SHOWN OR NOT ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE SERVICE AS SOON AS POSSIBLE AT THE CONTRACTOR'S OWN EXPENSE.
7. VIDEO TAPING OF PROJECT SHALL BE DELIVERED AND ACCEPTED BY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF 14 CALENDAR DAYS PRIOR TO START OF CONSTRUCTION ACTIVITIES.
8. NOTIFY THE CITY OF HUDSON ENGINEERING DEPARTMENT A MINIMUM OF FORTY-EIGHT HOURS (2 WORKING DAYS) PRIOR TO THE START OF CONSTRUCTION.
9. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS (2 WORKING DAYS) AFTER SUBMISSION OF A MINIMUM OF 6 APPROVED SETS OF PLANS AND ALL SHOP DRAWINGS APPLICABLE TO THE PROPOSED IMPROVEMENTS. A PRECONSTRUCTION MEETING MUST BE HELD PRIOR TO START OF ANY CONSTRUCTION.
10. THE LIMITS OF CLEARING AND GRADING SHALL BE FIELD STAKED AND LINED WITH ORANGE CONSTRUCTION FENCING 48 HOURS (2 WORKING DAYS) PRIOR TO THE PRECONSTRUCTION MEETING. AREAS BEYOND THE LIMITS OF CLEARING AND GRADING SHALL NOT BE DISTURBED INCLUDING THE STOCKPILE OF ANY MATERIALS OR CONSTRUCTION TRAFFIC.
11. ALL ROAD SURFACES, EASEMENTS, OR RIGHT-OF-WAY DISTURBED BY THE CONSTRUCTION OF ANY PART OF THESE IMPROVEMENTS ARE TO BE RESTORED ACCORDING TO THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION" AS DIRECTED BY THE CITY OF HUDSON AND/OR ITS ENGINEER.
12. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY OF HUDSON OR ITS REPRESENTATIVE IF SUSPECTED HAZARDOUS MATERIAL OR ANY OTHER MATERIAL THAT MAY CREATE A HEALTH RISK IS DISCOVERED ON SITE.
13. ALL DISTURBED STORM SEWERS AND/OR APPURTENANCES, SIGNS, GUARD RAILING, MAIL AND/OR PAPER BOXES, DRIVE CULVERTS, FENCES, TREES, LANDSCAPING, OR OTHER ITEMS DISTURBED BY THE CONSTRUCTION SHALL BE RESTORED OR REPAIRED TO AT LEAST THE BEFORE-CONSTRUCTION CONDITION.
14. ANY DEFECTS DISCOVERED IN NEW CONSTRUCTION, WORKMANSHIP, EQUIPMENT OR MATERIALS SHALL BE REPAIRED, OR CORRECTED BY APPROVED METHODS AS DIRECTED BY THE CITY OF HUDSON.
15. NUCLEAR COMPACTION TESTING SHALL BE REQUIRED FOR ALL FILL AREAS OVER TWO FEET (2) IN DEPTH, AT 6' LIFTS PER ASTM A-1557, 95% MODIFIED.
16. APPROVAL BY THE CITY OF HUDSON ENGINEER CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS, ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS.
17. DURING TAPPING OF EXISTING UTILITIES, ANY TRAFFIC CONTROL REQUESTED OR REQUIRED BY THE CITY OF HUDSON WILL BE PROVIDED BY THE CONTRACTOR AT NO COST TO THE CITY.
18. COMPLIANCE WITH THE OCCUPATIONAL AND SAFETY ACT OF 1970 IS REQUIRED BY ALL CONTRACTORS ON THIS PROJECT.
19. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
20. ALL DISTURBED AREAS SHALL RECEIVE 4" OF TOPSOIL AND BE SEEDED AND MULCHED AS PER SECTION 9 - LANDSCAPING AND STREET TREES OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
21. IF MUD, SOIL, OR OTHER DEBRIS IS DEPOSITED ON ADJACENT STREETS, ROADS, OR OTHER PROPERTY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF SUCH AS DIRECTED BY THE CITY OF HUDSON OR ITS ENGINEER AT THE END OF EACH WORK DAY, OR AS REQUIRED DURING THE WORK DAY.
22. ALL PROPOSED SLOPES 3:1 OR STEEPER AND ALL EARTHEN DRAINAGE WAYS SHALL RECEIVE JUTE OR EXCELSIOR MATTING AS PER ODOT 667 OR 668.
23. ALL STORM SEWERS WITHIN PUBLIC RIGHTS-OF-WAY AND CITY OF HUDSON EASEMENTS SHALL BE PER SECTION 4 - STORM COLLECTION OF THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
24. ALL PIPES SHALL BE PLACED OVER 4" OF BEDDING. BEDDING MATERIAL SHALL BE AS SPECIFIED IN CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION, FOR THE TYPE OF PIPE.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND PROTECTING THE FLOW OF VEHICULAR AND PEDESTRIAN TRAFFIC AROUND THE JOB SITE. TRAFFIC CONTROL SHALL BE COORDINATED WITH THE CITY OF HUDSON POLICE DEPARTMENT.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PLANT TICKETS FOR ALL MATERIALS DELIVERED TO THE SITE. PLANT TICKETS MUST SHOW NET QUANTITY OF DELIVERED MATERIAL. MATERIAL DELIVERED OR PLACED WITHOUT PLANT TICKETS SHALL BE REMOVED AND PROPERLY DISPOSED AT THE EXPENSE OF THE CONTRACTOR.
27. ALL DELIVERED MATERIALS SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF HUDSON OR OTHER APPLICABLE AGENCIES. THE CITY OF HUDSON, OR ITS REPRESENTATIVE, RESERVES THE RIGHT TO REJECT ANY DELIVERED MATERIAL WHICH DOES NOT CONFORM TO THE APPLICABLE STANDARDS AND SPECIFICATIONS.
28. THE CITY OF HUDSON OR ITS REPRESENTATIVE, RESERVES, THE RIGHT TO HALT ALL CONSTRUCTION ACTIVITY FOR NONCONFORMANCE OF PLANS, SPECIFICATIONS AND OTHER APPLICABLE STANDARDS OR REGULATIONS.
29. ALL CHANGES TO APPROVED DRAWINGS AND/OR SPECIFICATIONS MUST BE REAPPROVED BY THE CITY OF HUDSON PRIOR TO CONSTRUCTION.
30. ALL PAVING MATERIAL MUST BE PROVIDED BY ODOT CERTIFIED SUPPLIER. WRITTEN PROOF SHALL BE REQUIRED UPON DELIVERY OF MATERIALS. THE CERTIFIED MIX DESIGN MUST BE SUBMITTED TO, AND APPROVED BY, THE CITY OF HUDSON PRIOR TO SCHEDULING A PRECONSTRUCTION MEETING.
31. CONTRACTOR/DEVELOPER SHALL PROVIDE ALL REQUIRED ROADWAY SIGNAGE AS PER ODOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES INCLUDING STREET IDENTIFICATION SIGNAGE PER CITY STANDARDS FOR ALL ASPECTS OF THE IMPROVEMENT.
32. ALL BONDS AND OR LETTERS OF CREDIT SHALL NOT BE RELEASED OR REDUCED AND NO WATER OR SANITARY SEWER CUSTOMERS CAN BE CONNECTED UNTIL ALL RECORD DRAWINGS HAVE BEEN SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF HUDSON.
33. ALL WORK AS PART OF THESE PLANS SHALL BE COMPLETED, INCLUDING ALL PUNCH LIST AND DEFICIENCY WORK WITHIN 1 YEAR OF THE START OF CONSTRUCTION.
34. FAILURE TO COMPLETE THE PROJECT IN ITS ENTIRETY AS APPROVED BY THE PLANNING COMMISSION, INCLUDING PUNCH LIST ITEMS, WILL RESULT IN THE CITY OF HUDSON HOLDING ALL FUTURE ZONING CERTIFICATES UNTIL ALL WORK HAS BEEN COMPLETED AND APPROVED.
35. MANUFACTURERS OR SUPPLIERS AFFIDAVIT FOR ALL CONSTRUCTION MATERIALS SHALL BE PROVIDED AS PER THE CITY'S "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION PRIOR TO THE START OF CONSTRUCTION.
36. THE CONSTRUCTION OF SANITARY SEWERS, WATER MAINS, LIFT STATIONS AND APPURTENANCES IS PROHIBITED UNTIL ALL PLANS HAVE BEEN APPROVED BY THE OHIO ENVIRONMENTAL PROTECTION AGENCY.
37. ALL SANITARY SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HUDSON "ENGINEERING STANDARDS FOR INFRASTRUCTURE CONSTRUCTION", LATEST EDITION.
38. ALL SANITARY SEWERS CONSTRUCTED IN SUMMIT COUNTY DEPARTMENT OF ENVIRONMENTAL SERVICES (SC-DOES) SERVICE DISTRICTS AND SERVED BY SC-DOES SHALL COMPLY WITH SC-DOES REQUIREMENTS.



GUTOSKEY & ASSOCIATES INC.
 Civil Engineers, Surveyors and Land Planners
 10135 GOTTSCHALK PKWY, SUITE 4
 CHAGRIN FALLS, OHIO 44023; JORGUTOSKEY@GUTOSKEY.COM

GENERAL NOTES

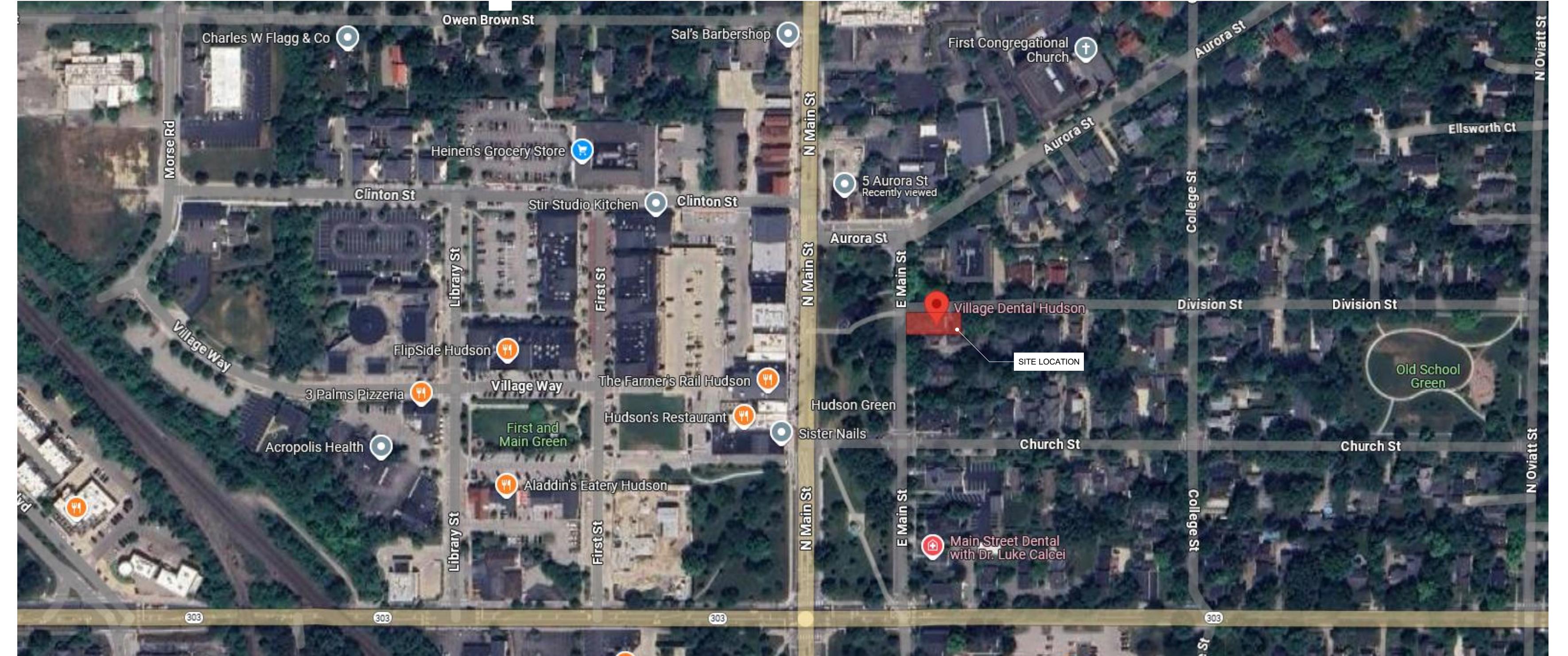
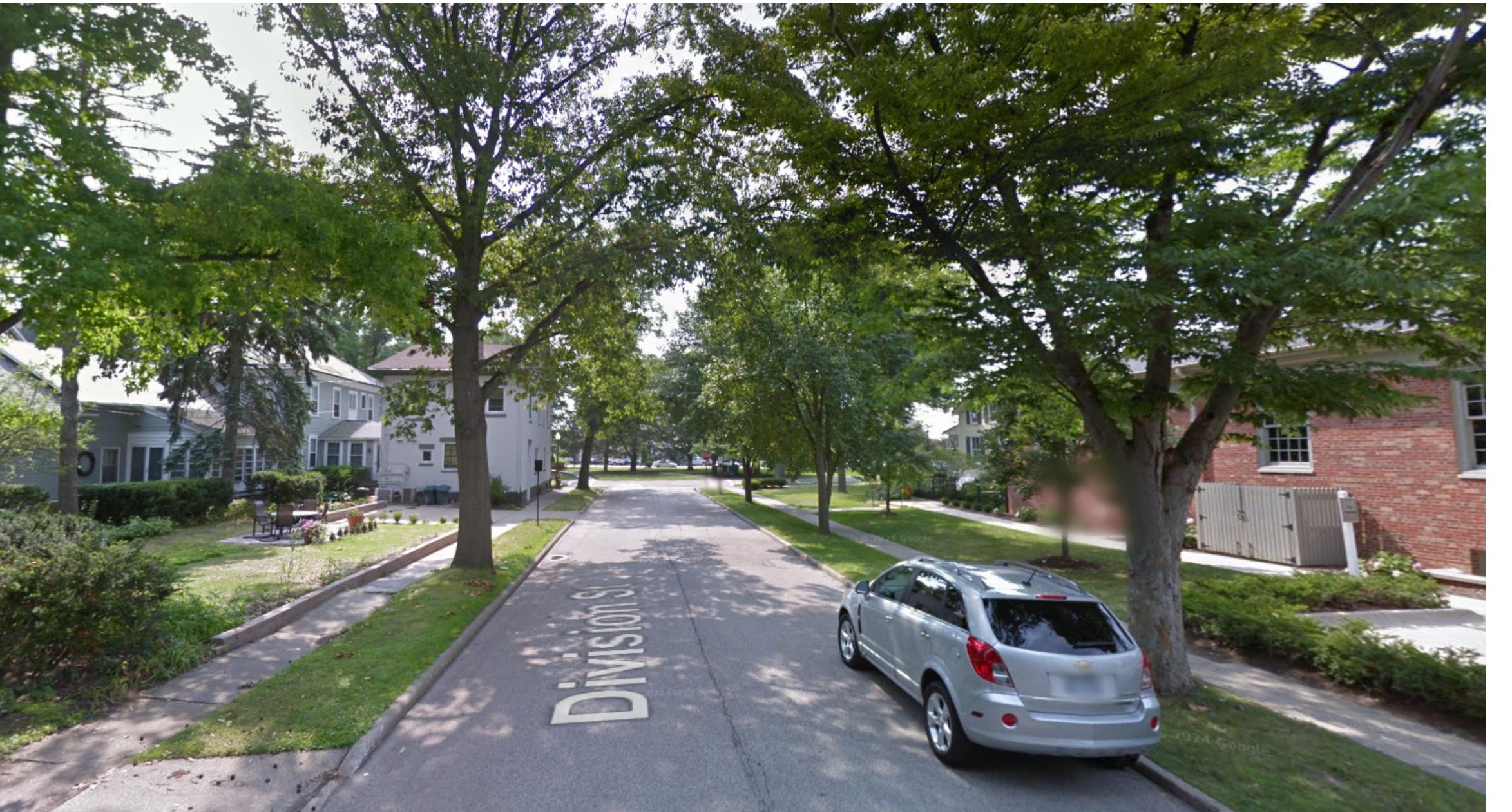


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 Sheet _____

C-1-3

CONTRACT No.
 25-4246

VILLAGE DENTAL
 P.P.N.32-00737
 41 EAST MAIN ST.
 HUDSON - SUMMIT COUNTY - OHIO

VICINITY MAP
NOT TO SCALEVILLAGE DENTAL
41 E. MAIN STREET, HUDSON, OH 44236

PROJECT #: 2501
ISSUE:
AHBR REVIEW 04-01-2025
VARIANCE SET 04-17-2025
PLANNING COMMISSION09-15-2025
PLANNING COMMISSION10-27-2025
PLANNING COMMISSION12-17-2025

SITE PHOTOS

AS1.00a

0 1/2' 1' 2'

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PRECEDENT IMAGE 1



PRECEDENT IMAGE 2



PRECEDENT IMAGE 3



PRECEDENT IMAGE 4



RENDERED IMAGE 1



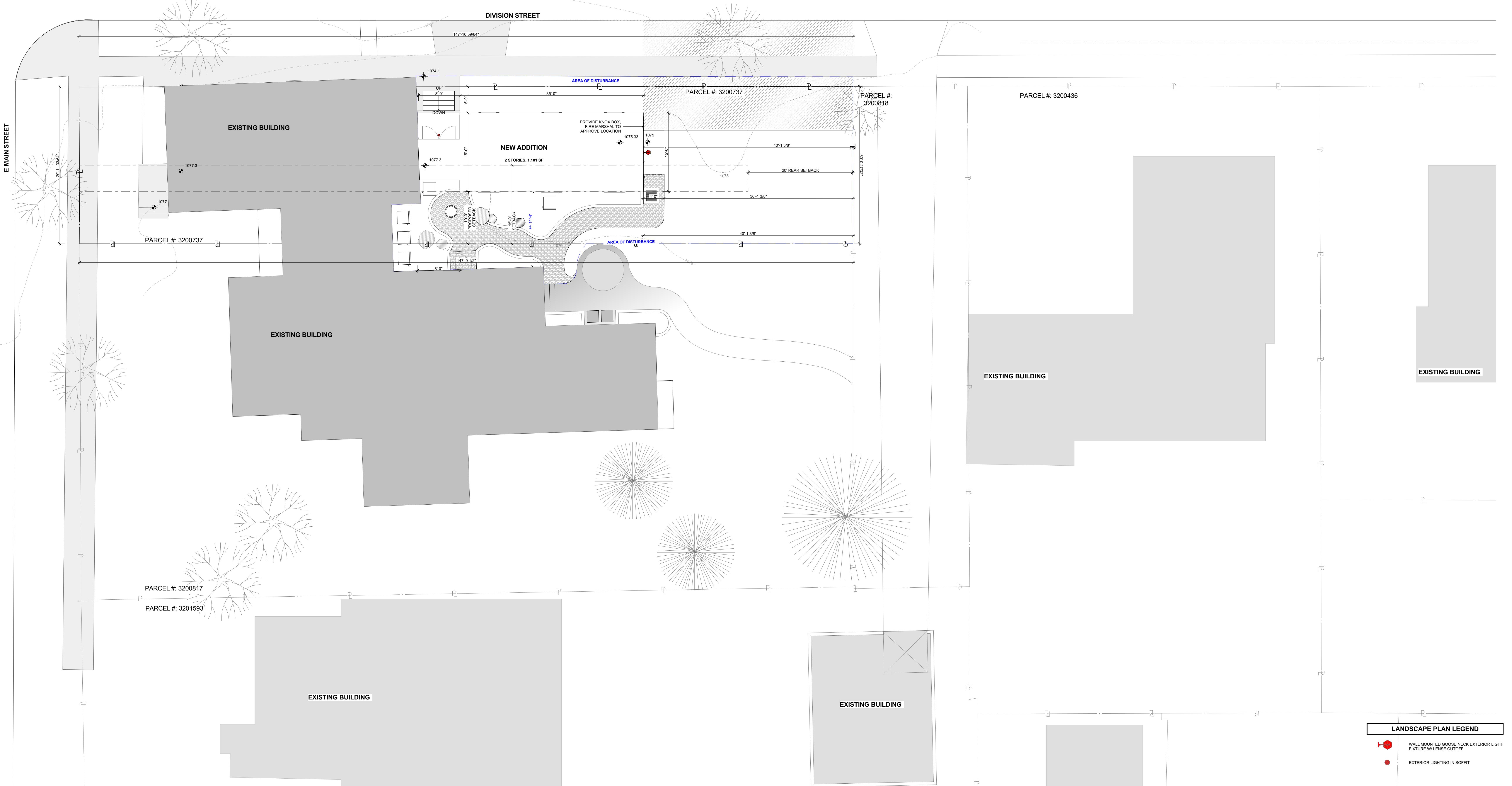
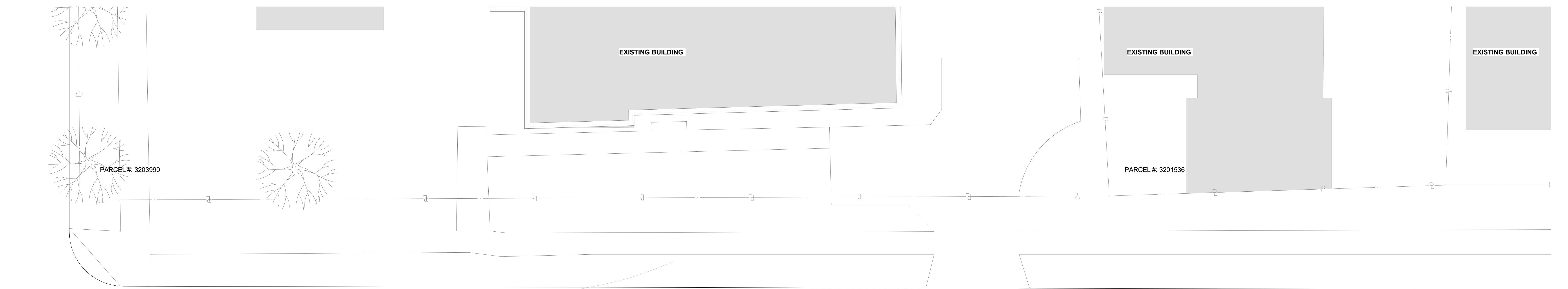
RENDERED IMAGE 2



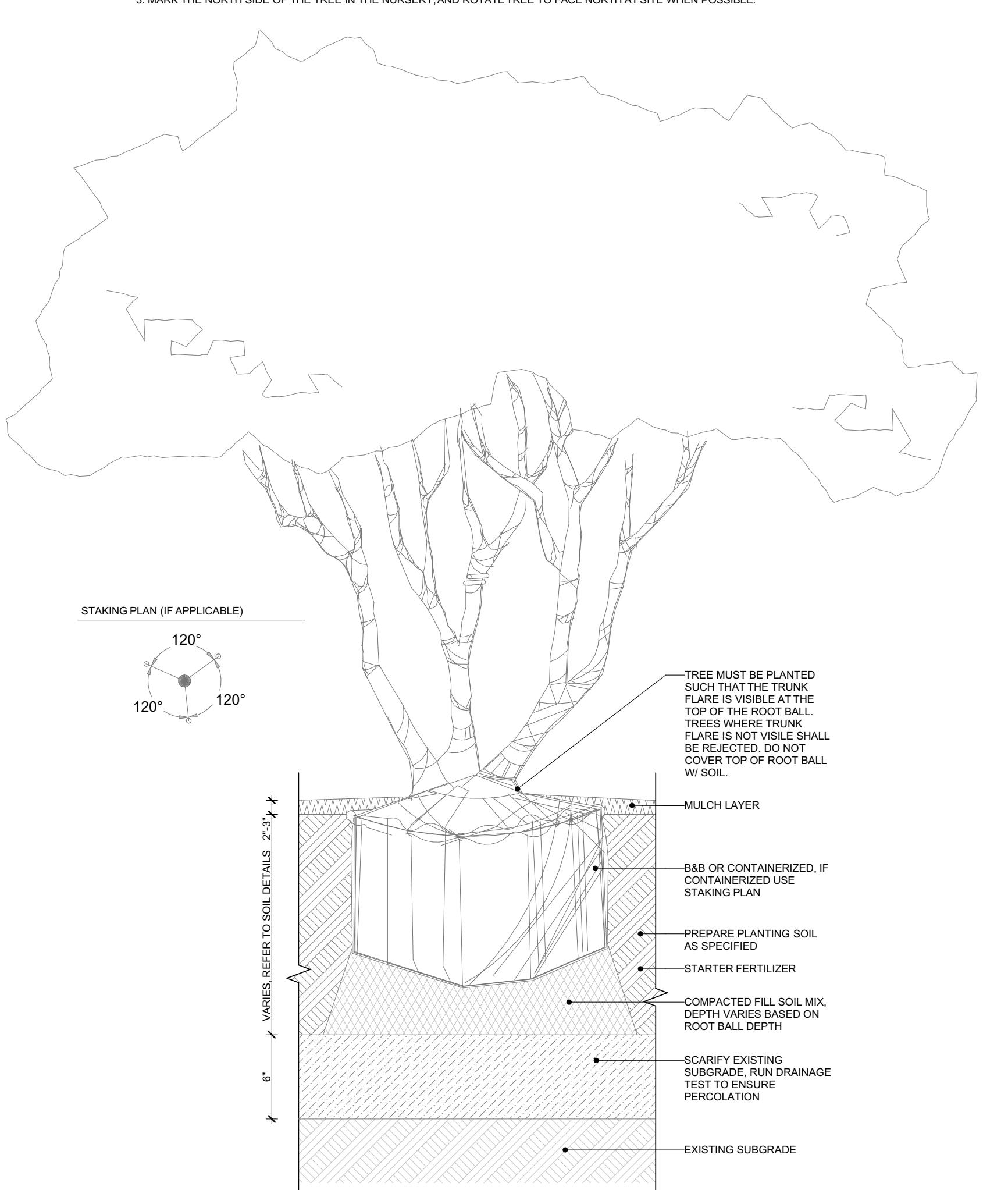
RENDERED IMAGE 3



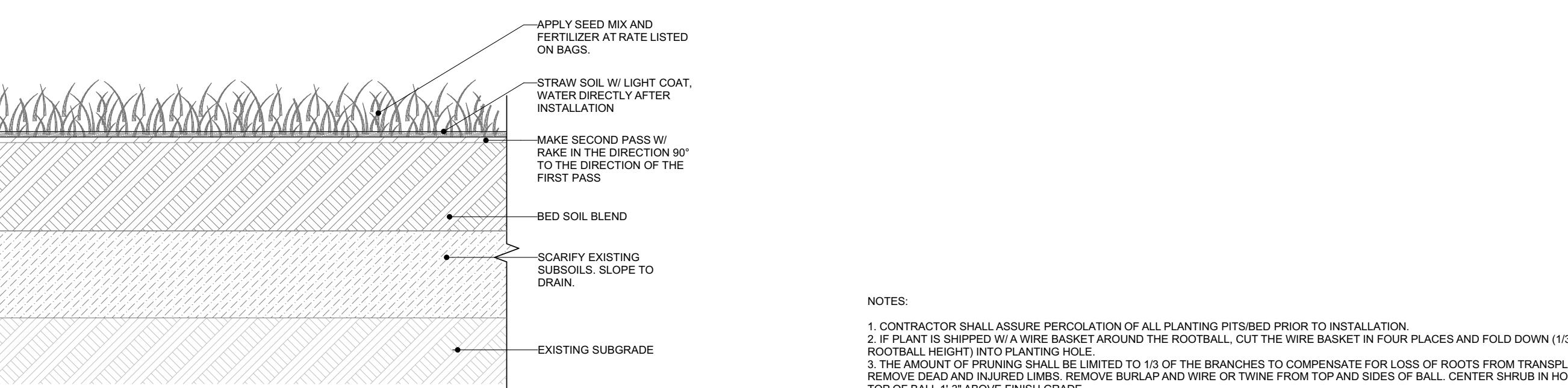
RENDERED IMAGE 4



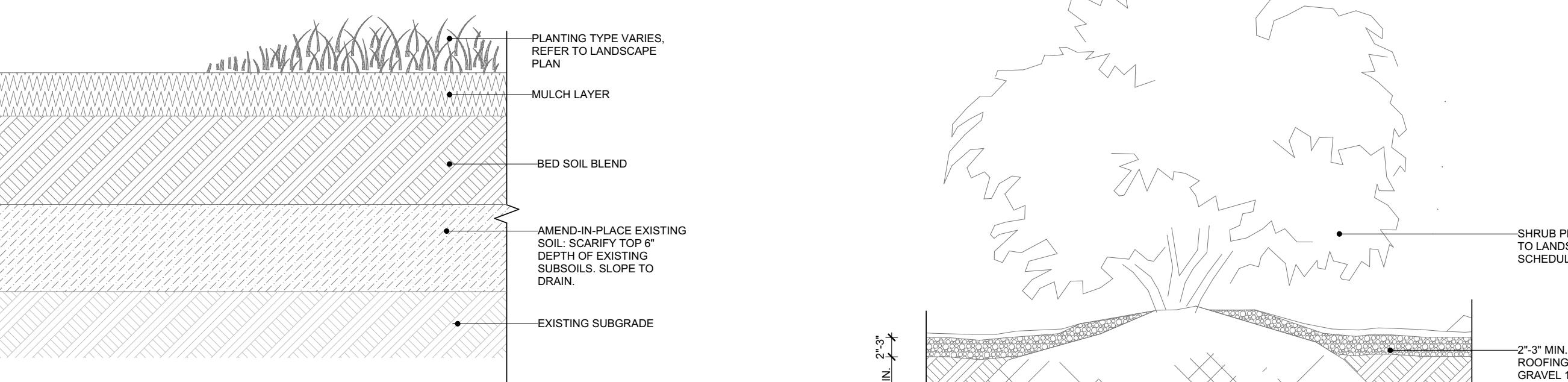
NOTES:
1. CONTRACTOR SHALL ASSURE PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION.
2. DO NOT PRUNE TREES OR PLANTING PINE, UNLESS CROSSED LIMBS, CO-COMMIT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
3. MARK THE NORTH SIDE OF THE TREE IN THE NURSERY, AND ROTATE TREE TO FACE NORTH AT SITE WHEN POSSIBLE.



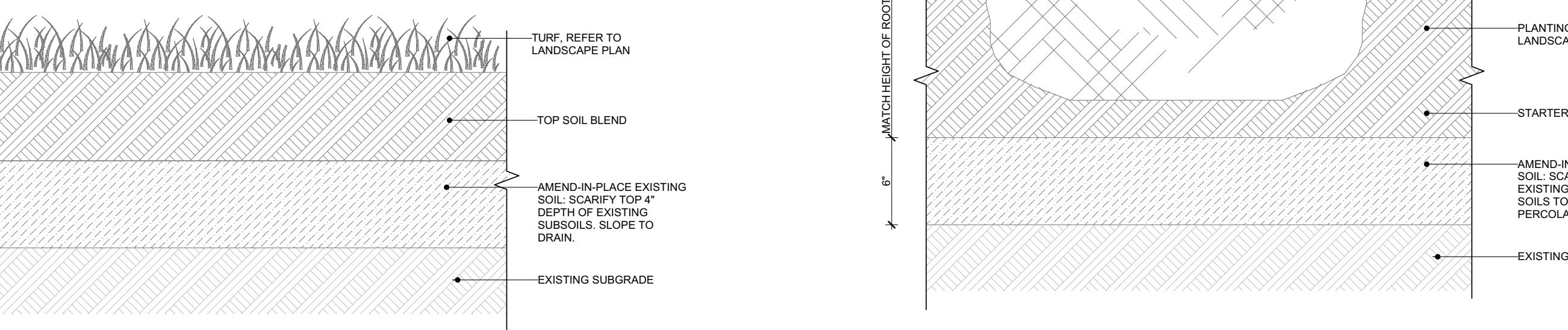
1 TYPICAL SECTION - MULTI-TRUNK ORNAMENTAL TREE DETAIL
NOT TO SCALE



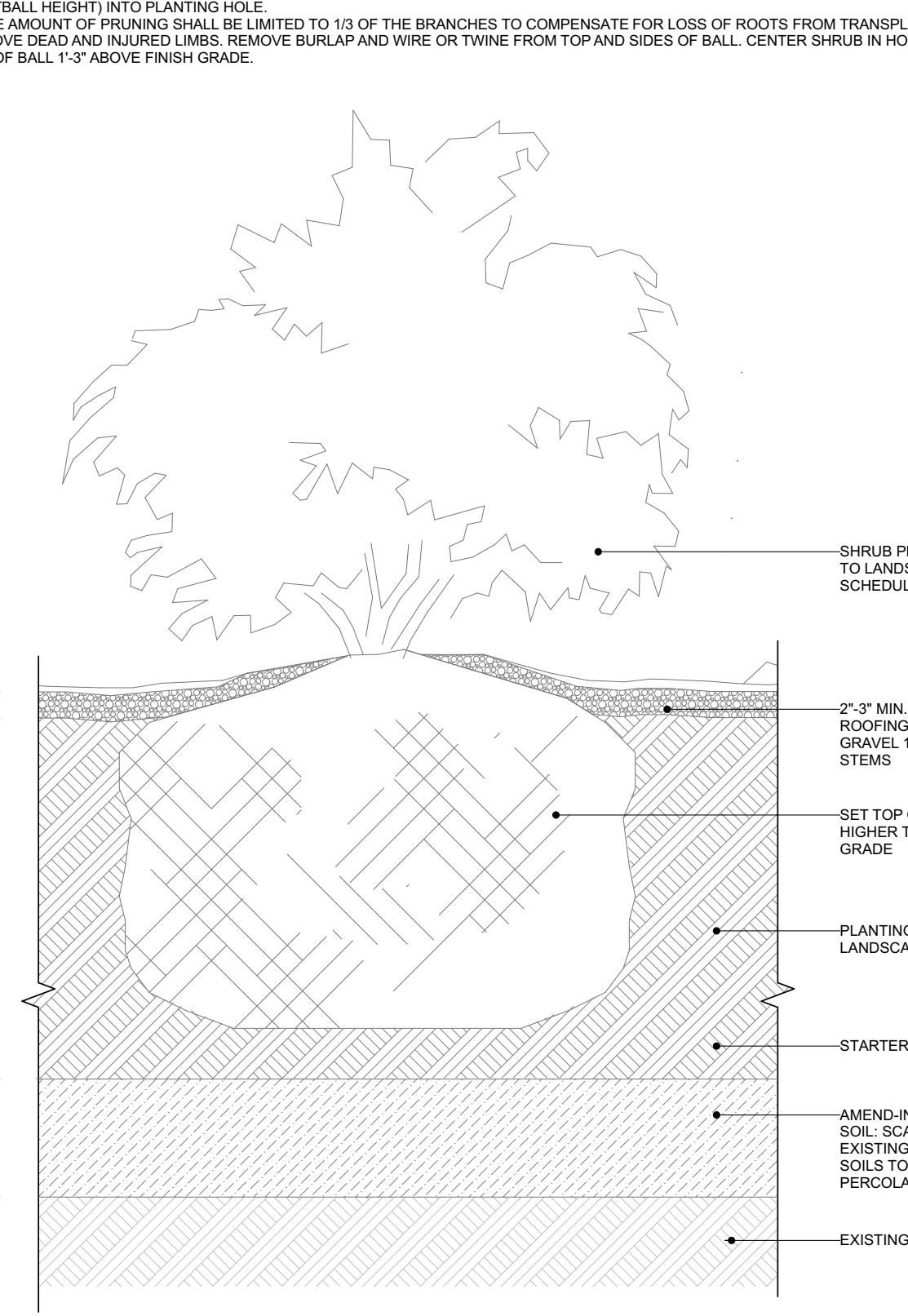
2 TYPICAL SECTION - SEEDING LAWN DETAIL
NOT TO SCALE



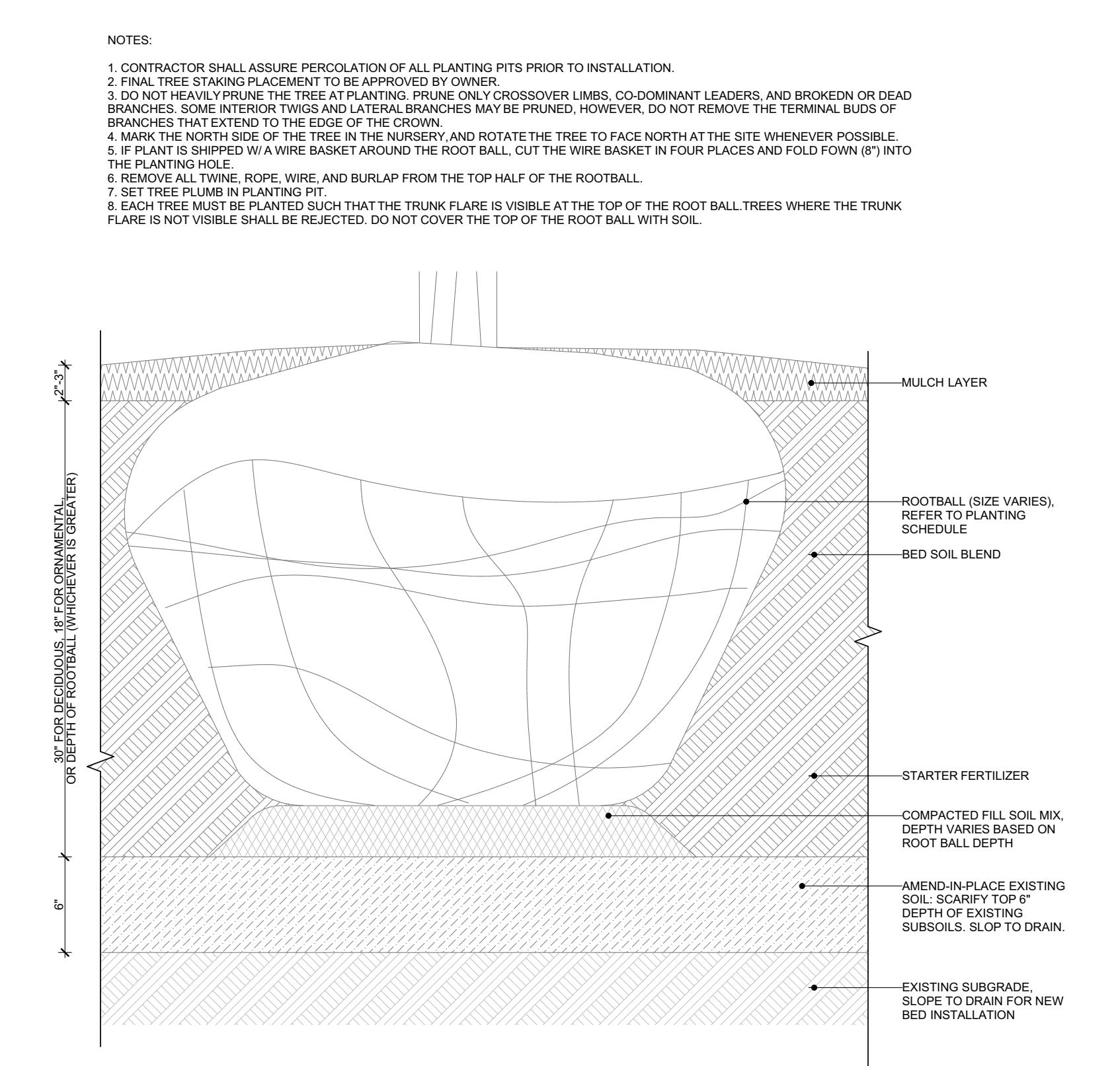
3 TYPICAL SECTION - TYPE '2' - PLANTING BED DETAIL
NOT TO SCALE



4 TYPICAL SECTION - TYPE '3' - TURF PLANTING DETAIL
NOT TO SCALE



5 TYPICAL SECTION - SHRUB PLANTING DETAIL
NOT TO SCALE



6 TYPICAL SECTION - SOIL TYPE '1' - TREE PLANTING DETAIL
NOT TO SCALE

enviro lights WAREHOUSE SHADE
WILDLIFE FRIENDLY

PROJECT: QUANTITY: TYPE:

enviro lights WAREHOUSE SHADE
WILDLIFE FRIENDLY

WILDLIFE FRIENDLY

LUMENS / WATTAGE DATA

WILDLIGHTS

SECTION 31 22 19 - FINISH GRADING

PART 1 - GENERAL

0.01 GENERAL REQUIREMENTS

A. This Section applies to the final subgrade preparation, placement of Soil Mixes and amending of in-place (In-Situ) soil or on-site stockpiled soils. Sections 32 91 00 - 32 91 50 (Topsoil - Planting Mixes) for testing, soil mix components and preparation, amendments, and hauling apply.

0.02 SUMMARY

A. This Section includes the following:

- Preparation of subgrade soils in planting areas for each specified soil mix and type.
 - Includes ripping of subgrade and in situ soils, and debris removal.
- Placement of Soil Mix(s) and Amendments.
- Fine Grading of Turfgrass and Planting Area Soil Surfaces.

0.03 REFERENCES

A. ASTM - ASTM International: D 1557 - Test Method for Laboratory Compaction Characteristics of Soil Using Modified Effort.
B. EPA - Environmental Protection Agency:

- Method 8015.
- Method 8020.

C. SSSA - Soil Science Society of America, Inc.

- Methods of Soil Analysis Part 1 - Physical and Mineralogical Methods, 1986.
- Methods of Soil Analysis Part 3 - Chemical Methods, 1996.

D. USDA - United States Department of Agriculture:

- Texture Triangle Classification.
- Handbook No. 60.

0.04 DEFINITIONS

A. Acceptance, Acceptable, or Accepted: Acceptance by the Architect in writing.
B. Aesthetic Acceptance of Grades: Acceptance by the Architect in writing of the aesthetic correctness of the contours. Aesthetic acceptance does not address whether areas drain properly, are at correct elevations, or whether the soil has been compacted properly.
C. Backfill: Soil material or controlled low-strength material used to fill an excavation.
D. Debris or Deleterious Materials: Elements including, but not limited to, concrete, concrete mixtures, asphalt, aggregate, rock fragments, rubble, overburden soils, abandoned utility structures, trash, refuse, and litter.
E. Excessive Compaction: Planting area soil or soil compaction greater than 75 percent maximum dry density as determined by ASTM D 1557.
F. Finished Grades: The required final soil surface elevations and contours indicated on the Drawings.
G. Planting Soil Mix: A specified profile of soil system components, such as, soil, sand and compost homogeneously blended to produce a specified planting soil mix.

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H. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.

I. Subgrade: Soil or elevation remaining after completing excavation, or top surface of a fill or backfill immediately below subsoil, drainage fill, or soil materials.

J. Surface Soil: that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically soil; but in disturbed areas such as urban environments, the surface soil can be subsoil.

K. Transition Layer: The specified planting soil mix for a planting area is homogeneously blended into the existing (ripped) native soil substrate to create a "transition" layer between the subgrade and specified planting soil mix. Transition layers vary pending specified soil mix for each planting area.

L. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.05 SUBMITTALS

A. Equipment Data: Submit descriptive information with ground pressure load data for each proposed item of equipment to be used. Equipment data will be evaluated for compaction potential. All equipment used in placing the compost shall have a ground pressure level of 4.5 t/ft².

- Landscaping moving equipment (D4, D6 dozers) must have rubberized base tracks with low ground pressure.
- Equipment with metal cleats will not be permitted.

1.06 QUALITY ASSURANCE

A. Qualifications:

- Installation and mixing foreman on the job shall be competent English-speaking supervisor, experienced in placing soil prepared for planting and planting installations. Supervisor shall remain on the site during the entire installation process.
- Perform work with personnel totally familiar with planting and lawn soil preparation and planting installations under the supervision of a foreman experienced with landscape work.
- Testing Laboratory: Experienced person(s) employed by public or private testing laboratory, qualified and capable of performing tests, making soil recommendations, and issuing reports as specified. The Testing Laboratory shall submit a Statement of Qualifications regarding the specific test methods to be used.
- It shall be the responsibility of the Contractor to see that the specifications are being adhered to by the Architect to immediately reject unsatisfactory workmanship or to notify the Contractor of his/her deviation from the specifications that shall not relieve the Contractor of his/her responsibility to repair and/or replace unsatisfactory work.

B. Pre-Installation Conference: Persons(s) responsible for soil preparation and mixes of this Section shall attend Pre-Installation Conference(s) to coordinate with work of other sections.

C. Testing and Inspection: Obtain qualified independent geotechnical testing and inspection laboratory to perform soil testing and inspection services under the supervision of a registered professional engineer during earthwork and finish grading operations.

D. Finished Grading Smoothness Mock-Up:

- Prepare a 20-foot by 20-foot area of finished graded soil representing the finished graded surface of the planting areas.
- Locate mockup on site in an area easily referenced during fine grading operations.

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3. Protect accepted mockup from physical damage and erosion until date of Final Completion.

4. The accepted mockup shall be the standard by which finish grading will be judged.

E. The Architect reserves the right to inspect and test grading operations at any time and as deemed necessary for verification of conformance to specification requirements. Any subsurface or grading conditions not meeting the requirements of the Specifications to be corrected by the Contractor before continuing with any further operation of the project and at no cost to the project.

1.07 PROJECT CONDITIONS

A. Examination: Promptly notify Construction Manager and Architect of unexpected subsurface conditions. Discontinue work until notification is work is provided by the Construction Manager.

B. Environmental Requirements:

- Examine areas and conditions under which work is to be performed. Obtain and examine the records and drawings of adjacent work and of existing utilities and their connections for which may affect the work under this Section.
- Verify all work requiring access through or adjacent to areas where each planting soil mix is to be placed has been completed and no further access will be required. If access will be required, this shall be used, ex. padded, wide-tracked LGP rated dozers and/or excavators, small to medium tractors with turf tires, etc.

2.02 EXAMINATION

A. Examine areas and conditions under which work is to be performed. Obtain and examine the records and drawings of adjacent work and of existing utilities and their connections for which may affect the work under this Section.

B. Verify all work requiring access through or adjacent to areas where each planting soil mix is to be placed has been completed and no further access will be required. If access will be required, this shall be used, ex. padded, wide-tracked LGP rated dozers and/or excavators, small to medium tractors with turf tires, etc.

C. Confirms subgrade is clear of all construction debris, trash, rubble, and any foreign material. If fuels, oils, concrete washout soils or other material harmful to plants have been spilled into the subgrade material, excavate the soil sufficiently to remove the harmful material. Fill any over excavation with approved fill and compact to the required subgrade compaction.

D. Compacts subgrade at the proper elevation, parallel to the finished grade and compacted as shown on the drawings.

E. Verify that conditions are suitable to receive Work and that no defects or errors are present which could cause defective installation of products or cause latent defects in workmanship and function.

F. Excessive Compaction: Verify subgrade in planting area is not excessively compacted.

G. Soil Preparation: Verify off-site soil preparation is complete and ready for transporting to site.

H. Notify Architect of any unacceptable sub-grade conditions. Do not start the installation of the soil mix until sub-grade conditions have been corrected.

3.03 PREPARATION

A. Review soil analysis testing results and requirements needed for each specified soil mix and amendment. Testing Agency recommendations may vary and require contractor to provide additional testing or preparations prior to placement of soils.

B. Protection of Existing Conditions:

- Protect structures, utilities, sidewalks, pavements, irrigation systems, paving, plant materials, and other facilities from damage caused by settlement, lateral movement, undermining, weathering, and other factors created by fine grading operations.
- Provide barricades, fences, or other barriers to protect existing conditions to remain from damage during construction.
- Use every possible precaution to prevent excessive compaction of planting area soil within or adjacent to the areas of work.
- Do not store material or equipment, permit burning, or operate or park equipment under the branches of existing trees to remain.
- Submit written notification of conditions damaged during construction immediately to the Owner.

4.03 PLACEMENT OF SOIL MIXES

A. Verify proper placement and blending of Transitions Layer has been completed.

B. Lightly scarify Transition Layer prior to placing the specified soil mix.

C. Do not place backfill or fill soil material on surfaces that are muddy, frozen, or contain frost or ice.

D. Remove and replace or scarify and air dry otherwise satisfactory soil material that exceeds optimum moisture content by 2 percent and is too wet to compact to specified dry unit weight.

5.03 PREPARATION

A. Review soil analysis testing results and requirements needed for each specified soil mix and amendment. Testing Agency recommendations may vary and require contractor to provide additional testing or preparations prior to placement of soils.

6.03 PROTECTION

A. Repair or Sections 32 91 00 through 32 91 50 for Soil Mixes.

7.03 EXECUTION

8.03 FIELD ENGINEERING

A. General:

9.03 SEQUENCING

A. Soil Placement: To prevent excessive soil compaction, avoid placing soil in areas subject to construction vehicle and equipment traffic. Coordinate work of this section with other project work as contained in all other Sections of the project specifications.

B. Protection of Existing Conditions:

- Protect structures, utilities, sidewalks, pavements, irrigation systems, paving, plant materials, and other facilities from damage caused by settlement, lateral movement, undermining, weathering, and other factors created by fine grading operations.
- Provide barricades, fences, or other barriers to protect existing conditions to remain from damage during construction.
- Use every possible precaution to prevent excessive compaction of planting area soil within or adjacent to the areas of work.
- Do not store material or equipment, permit burning, or operate or park equipment under the branches of existing trees to remain.
- Submit written notification of conditions damaged during construction immediately to the Owner.

10.03 PREPARATION

A. Review soil analysis testing results and requirements needed for each specified soil mix and amendment. Testing Agency recommendations may vary and require contractor to provide additional testing or preparations prior to placement of soils.

11.03 PROTECTION

A. Repair or Sections 32 91 00 through 32 91 50 for Soil Mixes.

B. Protection of Existing Conditions:

- Take precautions to prevent finished graded surfaces from becoming excessively compacted.
- Protect finished graded surfaces from excessive compaction from vehicular, equipment, and foot traffic by laying down planks, plywood, or other accepted protective devices.
- During construction, maintain temporary soil erosion and sedimentation control measures in place. Inspect, repair, and replace damaged or missing items as work progresses.

12.03 DISPOSAL AND CLEAN UP

A. Protecting Fine Graded Areas: Protect newly graded areas from traffic and erosion. Keep free of trash and debris.

B. Repair and reestablish grades to specified tolerances where, completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.

13.03 EXCAVATION

A. Take precautions to prevent finished graded surfaces from becoming excessively compacted.

14.03 REPAIR

A. Repair erosion that occurs before and during plant or lawn installation.

15.03 DRAINAGE

A. Do not store or stockpile materials on finished graded surfaces.

16.03 MECHANICAL

A. Mechanically loosen excessively compacted soil areas to full depth.

17.03 FINISH GRADING

A. Uniformly grade areas to a smooth uniform surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

18.03 ALLOWANCES

A. Make proper allowances for settlement.

19.03 ADJUSTING

A. Soil Finished Grade:

- Provide allowance for 32 hours of adjustment grading work with a 4-person hand-grading crew to smooth and shape the soil surfaces using hand rakes, shovels, and other hand tools.
- After the soil surface elevations have been graded to be within the specified tolerances, perform adjustment grading. Work shall be done in the field as indicated in the field.
- Do not rely on adjustment grading to bring finished grade elevations to within specified tolerances.

20.03 FIELD QUALITY CONTROL

A. Aesthetic Acceptance of Grades:

- Upon completion of finish grading Work, schedule a review by the Architect to obtain aesthetic acceptance.
- Provide 3 days advance written notification.
- Do not commence seeding, sodding, or other planting Work until receiving aesthetic acceptance.

21.03 TEST FOR EXCESSIVE COMPACTION

A. When excessive compaction is suspected by Architect, have a Geotechnical Engineer perform nuclear density field tests.

B. Correct excessively compacted soil areas to the depth of the excessive compaction by means and methods acceptable to the Architect prior to installing plant material.

22.03 PROTECTION

A. Uniformly grade areas to a smooth uniform surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

23.03 TOLERANCES

A. Grade soil surface to within 0.05-foot of grades indicated on the Drawings, except bring soil surface grades along paving, curbs, and other structures to within 0.01-foot of grades indicated on the Drawings.

B. Transition soil surface grades along paving, curbs, and other structures to areas of less strict tolerance over a 5-foot distance.

24.03 ALLOWANCES

A. Make proper allowances for settlement.

25.03 ADJUSTING

A. Soil Finished Grade:

- Provide allowance for 32 hours of adjustment grading work with a 4-person hand-grading crew to smooth and shape the soil surfaces using hand rakes, shovels, and other hand tools.
- After the soil surface elevations have been graded to be within the specified tolerances, perform adjustment grading. Work shall be done in the field as indicated in the field.
- Do not rely on adjustment grading to bring finished grade elevations to within specified tolerances.

26.03 FIELD QUALITY CONTROL

A. Aesthetic Acceptance of Grades:

- Upon completion of finish grading Work, schedule a review by the Architect to obtain aesthetic acceptance.
- Provide 3 days advance written notification.
- Do not commence seeding, sodding, or other planting Work until receiving aesthetic acceptance.

27.03 TEST FOR EXCESSIVE COMPACTION

A. When excessive compaction is suspected by Architect, have a Geotechnical Engineer perform nuclear density field tests.

B. Correct excessively compacted soil areas to the depth of the excessive compaction by means and methods acceptable to the Architect prior to installing plant material.

28.03 PROTECTION

A. Uniformly grade areas to a smooth uniform surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.

29.03 TOLERANCES

A. Grade soil surface to within 0.05-foot of grades indicated on the Drawings, except bring soil surface grades along paving, curbs, and other structures to within 0.01-foot of grades indicated on the Drawings.

B. Transition soil surface grades along paving, curbs, and other structures to areas of less strict tolerance over a 5-foot distance.

30.03 ALLOWANCES

A. Make proper allowances for settlement.

31.03 ADJUSTING

A. Soil Finished Grade:

- Provide allowance for 32 hours of adjustment grading work with a 4-person hand-grading crew to smooth and shape the soil surfaces using hand rakes, shovels, and other hand tools.
- After the soil surface elevations have been graded to be within the specified tolerances, perform adjustment grading. Work shall be done in the field as indicated in the field.
- Do not rely on adjustment grading to bring finished grade elevations to within specified tolerances.

32.03 FIELD QUALITY CONTROL

A. Aesthetic Acceptance of Grades:

- Upon completion of finish grading Work, schedule a review by the Architect to obtain aesthetic acceptance.
- Provide 3 days advance written notification.
- Do not commence seeding, sodding, or other planting Work until receiving aesthetic acceptance.

33.03 TEST FOR EXCESSIVE COMPACTION

A. When excessive compaction is suspected by Architect, have a Geotechnical Engineer perform nuclear density field tests.

B. Correct excessively compacted soil areas to the depth of the excessive compaction by means and methods acceptable to the Architect prior to installing plant material.

34.03 PROTECTION

A

PART 2 - PRODUCTS

2.01 CONCRETE, GENERAL

A. ACI Publications: Comply with ACI 301 unless otherwise indicated.

2.02 FORMS

A. Form Materials: Plywood, metal, metal-framed plywood, or other approved panel-type materials to provide full-depth, continuous, straight, and smooth exposed surfaces.

1. Use flexible or uniformly curved forms for curves with a radius of 100 feet or less. Do not use notched and bent forms.

B. Form-Release Agent: Commercially formulated form-release agent that will not bond with, stain, or adversely affect concrete surfaces and that will not impair subsequent treatments of concrete surfaces.

2.03 STEEL REINFORCEMENT

A. Reinforcing Bars: ASTM A615, Grade 60; deformed.

B. Steel Bar Mats: ASTM A184; with ASTM A615, Grade 60 deformed bars; assembled with clips.

C. Joint Dowel Bars: ASTM A615, Grade 60 plain-steel bars. Bars true to length with ends square and free of burrs.

1. Steelmat Joint Dovets: "Speed Dovet", size fit dovetail, as available from Greenstreet, Inc., St. Louis, MO 800-325-8924. www.greenstreet.com; or equal.

D. Tie Bars: ASTM A615, Grade 60; deformed.

E. Bar Supporters: Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars, welded-wire reinforcement, and dowels in place. Manufacture bar supports according to CRSI's "Manual of Standard Practice" for steel wire, plastic, or precast concrete of greater compressive strength than concrete specified, and as follows:

1. Equip bar supports with sand plates or horizontal runners where base material will not support chair legs.

2.04 CONCRETE MATERIALS

A. Cementitious Materials: Use the following cementitious materials, of same type, brand, and source throughout Project:

1. Portland Cement: ASTM C150, Gray Portland cement Type II Type III.

a. Type III - High early strength may be used with written approval and at the contractor's expense.

2. Fly Ash: ASTM C618, Class C or Class F.

3. Slag Cement: ASTM C890, Grade 100 or 120.

B. Normal-Weight Aggregates: ASTM C33, Class 45, uniformly graded. Provide aggregates from a single source throughout entire project. Provide aggregates free of iron pyrite.

1. Maximum Coarse-Aggregate Size: 3/4-inch nominal.

2. Fine Aggregate: Free of materials with deleterious reactivity to alkali in cement.

C. Air-Entraining Admixture: ASTM C260.

D. Chemical Admixtures: Admixtures certified by manufacturer to be compatible with other admixtures and to contain no more than 0.1 percent water-soluble chloride ions by mass of cementitious material.

1. Water-Reducing Admixture: ASTM C494, Type A.

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2. Retarding Admixture: ASTM C494, Type B.

3. Water-Reducing and Retarding Admixture: ASTM C494, Type D.

4. High-Range Water-Reducing Admixture: ASTM C494, Type F.

5. High-Range Water-Reducing and Retarding Admixture: ASTM C494, Type G.

6. Plasticizing and Retarding Admixture: ASTM C1017, Type II.

E. Water: Potable and complying with ASTM C94.

2.05 CURING MATERIALS

A. Moisture-Retaining Cover: ASTM C171, polyethylene film or white burlap-polyethylene sheet.

B. Water: Potable.

C. Clear, Waterborne, Membrane-Forming Curing Compound: ASTM C309, Type 1, Class B, dissipating. (Standard Broom Finishes)

1. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:

a. Dayton Superior Corporation; Day Chem Rez Cure (J-11-W).

b. Ecolit Chemical Company (The); Kurez DR VOX.

c. L&M Construction Chemicals, Inc.; L&M Cure R.

d. Meadows, W., Inc.; Series 1100.

2. The curing compound shall not be used as the final sealer for the concrete.

3. For concrete indicated to be sealed, curing compound shall be compatible with sealer.

2.06 RELATED MATERIALS

A. Expansion and Isolation-Joint-Filler Strips: ASTM D 1752, Provide with joint caps.

1. Basis of design: Products by WR Meadows.

a. Cork: ASTM-D1752 Type II.

b. Typical Thickness: 1/4 inch.

c. Joint Cap: Two-piece device with upper portion removable after curing period; width corresponding to joint filler.

2. Plastic strips with a removable top for placing caulking or sealant that is designed specifically for expansion between concrete pavers.

B. Epoxy-Resin Adhesive: ASTM C861, two-component epoxy resin capable of humid curing and bonding to concrete surfaces for application temperature, of grade complying with requirements, and of the following types:

1. Types I and II, non-load-bearing, for bonding hardened or freshly mixed concrete to hardened concrete.

C. Bonding Agent: ASTM C 1059, Type II, non-redispersible, acrylic emulsion or styrene butadiene.

2.07 CONCRETE MIXTURES

A. Prepare design mixtures, proportioned according to ACI 301, for each type and strength of normal-weight concrete, and as determined by either laboratory trial mixtures or field experience.

1. Use a qualified independent testing agency for preparing and reporting proposed concrete design mixtures for the trial batch method.

2. Water-Reducing Admixture: ASTM C494, Type A.

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2. When automatic machine placement is used, determine design mixtures, and obtain laboratory test results that comply with or exceed requirements.

B. Cementitious Materials: Use fly ash, pozzolan, slag cement, and silica fume as needed to reduce the total amount of portland cement, which would otherwise be used, by not less than 40 percent.

1. Fly Ash or Pozzolan: 25 percent.

a. Slag: 50 percent.

b. Combined Fly Ash or Pozzolan, and Slag Cement: 50 percent, with fly ash or pozzolan not exceeding 25 percent.

C. Add air-entraining admixture at manufacturer's prescribed rate to result in normal-weight concrete at point of placement having an air content as follows:

1. Air: 6 percent plus or minus 1-1/2 percent for 3/4-inch nominal maximum aggregate size.

D. Limit water-soluble, chloride-ion content in hardened concrete to 0.15 percent by weight of cement.

E. Chemical Admixtures: Use admixtures according to manufacturer's written instructions.

1. Use water-reducing and retarding admixture when required by high temperatures, low humidity, or other adverse placement conditions.

F. Concrete Mixtures: Normal-weight concrete.

1. Compressive Strength (28 Days): 4500 psi.

a. Job-Bull Edge Restraints: 3000 psi Compressive Strength (28 days).

2. Maximum W/C Ratio at Point of Placement: 0.45.

2.08 CONCRETE MIXING

A. Read-Mix Concrete: Measure, batch, and mix concrete materials and concrete according to ASTM C140. Furnish batch certificates for each batch discharged and used in the Work.

B. Project-Site Mixing: Measure, batch, and mix concrete materials in appropriate drum-type batch machine mixer.

1. For concrete batches of 1 cu. yd. or smaller, continue mixing at least 1-1/2 minutes, but not more than 5 minutes after ingredients are in mixer, before any part of batch is released.

2. For concrete batches larger than 1 cu. yd., increase mixing time by 15 seconds for each additional 1 cu. yd.

3. Provide batch ticket for each batch discharged and used in the Work, indicating Project identification name and number, date, mixture type, mixing time, quantity, and amount of water added.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine exposed subgrades and subbase surfaces for compliance with requirements for dimensional, grading, and elevation tolerances.

1. Proceed with concrete pavement operations only after nonconforming conditions have been corrected and subgrade is ready to receive pavement.

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2. Time: Not less than 5 years successful experience with installation of work of the type required by this project.

3. Projects: Successfully completed a minimum of five projects of not less than the size minimum amount of unit paving types required for this project.

4. Workmanship: Use an adequate number of skilled personnel who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specific requirements and methods required for proper performance of the Work of this Section.

5. Installer's foreman shall have at least 5-years of experience and be always on site while this Section is performed. Foreman shall not be changed during work units approved in writing by Architect.

E. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Construction of Mock-ups

- a. Construct one 10-foot by 10-foot area of unit paving for each material type.
- 1) Sample to include compacted aggregate/aluiminous setting bed, pavers representing pattern as per drawings, edge restraint and filled joints with specified setting bed material.
- b. Coordinate locations of in-place mock-ups at Pre-construction conference.
- 1) Identify quantity of key areas each mock-up is to represent. Submit drawing for Architect's approval.
- 2) Construct mockup in a location where mockup can be referenced.
- 3) Construct as many mockups as necessary to achieve an acceptable mockup to Owner and Architect.
- 4) Remove all rejected mockups immediately after "approval" of mockups samples have been officially accepted by the Architect.

2. Approval

- a. Demonstrate the proposed range of aesthetic effects and workmanship.
- b. Obtain Owner's Representative approval of mockups before starting unit paving installation.
- c. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work.
- d. Demolish and remove mockups when directed.
- e. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.07 PRECONSTRUCTION TESTING

A. Preconstruction Adhesion and Compatibility Testing: Submit to latex-additive manufacturer, for testing as indicated below, samples of flooring materials that will contact or affect mortar and grout that contain latex additives.

1. Use manufacturer's standard test methods to determine whether mortar and grout materials will obtain optimal adhesion with, and will be nonstaining to, installed brick and other materials constituting brick flooring installation.

1.08 DELIVERY, STORAGE, AND HANDLING

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A. Store pavers on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, secured tight.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained, and contamination avoided.

D. Store liquids in tightly closed containers protected from freezing.

1.09 FIELD CONDITIONS

A. Cold-Weather Protection: Do not use frozen materials or materials mixed or coated with ice or frost. Remove and replace unit paver work damaged by frost or freezing.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

A. Source Limitations: Obtain each type of unit paver, joint material, and setting material from single source with resources to provide materials and products of consistent quality in appearance and physical properties.

2.02 BRICK PAVERS

A. Clay Brick Pavers: Reclaimed bricks. If not available, Basis of Design Manufacturer: Pine Hall Brick Company Ph. No: (800) 952-7425 www.pinehallbrick.com

1. Paver Type P – Pedestrian:

- a. Brick Pavers: Light-traffic paving brick, ASTM C 902, Class SX Type R, Application PX, and ASTM C67 for Freeze/Thaw. Provide brick without frogs or cores in surfaces exposed to view in the completed Work.
- b. Thickness: 2-3/4 inches.
- c. Face Size: 4 x 8
- d. Color: Rumbled Full Range
- e. Pattern: Herringbone

2. Paver Type P – Pedestrian:

- a. Brick Pavers: Light-traffic paving brick, ASTM C 902, Class SX Type R, Application PX, and ASTM C67 for Freeze/Thaw. Provide brick without frogs or cores in surfaces exposed to view in the completed Work.
- b. Thickness: 2-1/4 inches
- c. Face Size: 4 x 8
- d. Edge: Square (no frogs)
- e. Color: Pathway Full Range
- f. Pattern: Running Bond

3. Paver Type P3d – Heavy Duty:

- 1. Manufacturer: Border Concepts, Inc.
 - a. A.P.E. Paver Edge Restrict: 1/4" x 4" x 4"
 - 1) Color: Borcon (Untreated)
 - b. Threaded rods for anchorage of steel plates and angles: ASTM A 193, Type 304 Stainless Steel, 1/2" diameter, minimum tensile strength.
 - c. Hex Nuts and coupling nuts for stainless steel threaded rod and stainless-steel bolts: ASTM A 194, Type 304, stainless.
 - 1) Flat Washers: Type 304 stainless steel 1/8" thick.

2.04 SAND SETTING-BED MATERIALS

A. Stabilized Sand for Joints: Gator SuperSand Bond by Alliance Designer Products Inc., 225 Boulevard Bellrose West, Laval Quebec H7L 6A1.

1. Color: To be selected from manufacturer's full range.

B. Herbicide: Commercial chemical for weed control, registered with the EPA. Provide in granular, liquid, or wettable powder form.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine surfaces indicated to receive unit paving, with Installer present, for compliance with applicable codes, standards, and other conditions affecting performance or cause latent defects in workmanship or function.

B. Where unit paving is to be installed over waterproofing, examine waterproofing installation, with waterproofing installer present, for protection from paving operations, including areas where waterproofing system is turned up or flashed against vertical surfaces.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

A. Remove substances from concrete substrates that could impair mortar bond, including curing and sealing compounds, form oil, and latex.

B. Clean concrete substrates to remove dirt, dust, debris, and loose particles.

C. Prod-roll prepared subgrade according to requirements in Section 31 20 00 "Earth Moving" to identify soft pockets and areas of excess yielding. Proceed with unit paver installation only after deficient subgrades have been corrected and are ready to receive subbase and base course for unit pavers.

3.03 INSTALLATION, GENERAL

A. Remove substances from concrete substrates that could impair mortar bond, including curing and sealing compounds, form oil, and latex.

B. Place Geotextile fabric over weep holes. Tack in place so not to be displaced during leveling sand installation. DO NOT COVER WEEP HOLE with tape.

C. Place leveling course and screed to a thickness of 1 to 1-1/2 inches, ensuring that moisture content is within acceptable limits and that screed is not overcompacted.

1. The leveling material shall be spread over the areas to be constructed to create an uncompacted loose surface onto which the pavers shall be placed. The laying course shall be such that after compaction it forms a uniform layer nominally one inch thick. Upon completion of the work, the final surface of the leveling material shall be 1/8" to 1/4 in. above adjacent areas.

2. It shall be laid to a tolerance of plus or minus 1/8 in. allowing for the correct surcharge. Where distances between screed rails exceed 12 ft. intervals an intermediate rail shall be set to line and level. Screed rails shall be used at 4 ft. centers where grade changes occur.

3. The screeded bedding sand shall not be subjected to any traffic by either mechanical or pedestrian use.

4. Subgrade material shall be placed to ensure that no delay occurs to paver laying. Bedding aggregate that has been screeded but not covered with pavers at the end of each day's work shall be taken up and re-screeded prior to re-commencement of work.

5. The voids left after the removal of screed rails shall be filled with loose bedding material as the laying of pavers proceeds.

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3.05 INSTALLING PAVERS:

A. Mix pavers from several pallets or cubes, as they are placed, to produce uniform blend of colors and textures as recommended by the manufacturer.

B. Laying Pavers:

- 1. Place pavers away from an edge restraint or the existing laying face in such a manner as to ensure squareness of pattern. Cut header course pavers to accommodate alignment tolerances of the restraints. Full pavers shall be laid first.
- 2. Place pavers so that joints are aligned and installed in the pattern as shown on the drawings.
- 3. Paver joint size: As noted on details and drawings.
- 4. Use string lines to hold pattern lines and elevations true.
- 5. All radial units are to be uniformly tamped with minimum 1/16" width and maximum 3/16" joints.
- 6. Lay rows of full units first.
- 7. Cut off and fit closure units subsequently.
- 8. Cut closure units with power diamond blade masonry saw where partial pavers abut straight surfaces.
- 9. Cut paver units that paver edges are parallel with adjacent surface.
- 10. Cut radial pavers with a diamond-blade masonry saw by kerfing and grinding, or other accepted method, where pavers abut round elements such as manholes, tree grates, cleatouts, and bollards to achieve smoothly curved edges parallel with the abutting surfaces with maximum 1/8" wide joints.
- 11. Do not allow other construction traffic on paving during the paving installation until pavers have been placed and joints have been filled with sand.

C. Rolling: Machine roll units to paver surface. Use neoprene coated rollers or operate rollers on pavers to avoid causing damage to the pavers.

D. Joint Pattern: As indicated on the drawings.

- 1. Where pattern is on a radius or curve, saw cut pavers both sides to maintain radii as follows:
 - a. Radii up to 5 ft. cut every paver,
 - b. Radii 5 to 10 ft. cut every second paver,
 - c. Radii 10 to 15 ft. cut every third paver,
 - d. Radii 15 to 25 ft. cut every fifth paver,
 - e. Radii over 25 ft. no cutting required
- 2. Most paver pattern and/or provide vertical cuts to adjacent pavers as necessary when the cutting of a paver will result in less than one third of a full paver. Pavers sliced longitudinally, except where being placed around utility manholes will not be accepted. All cut paver faces to be vertical, top edges shall be free from chips and pattern modifications/vertical cuts shall be as acceptable to the Architect.
- 3. Tolerances:
 - 1. Unit to Unit - Joint Width: 1/8" joints minimum, +1/16". Do not lay hand tight unless noted on drawings or tabs are present on pavers.

3.06 REPAIRING, POINTING, AND CLEANING

A. Remove and replace units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Provide new units to match adjoining units and install in same manner as original units, with same joint treatment and with no evidence of replacement.

B. Pointing: During tooling of joints, enlarge voids or holes and completely fill with grout. Point up joints and jointant joints to provide a neat, uniform appearance, properly prepared for sealant application.

C. Cleaning: Remove excess grout from exposed paver surfaces; wash and scrub clean.

- 1. Remove temporary protective coating from brick pavers as recommended by protective coating manufacturer and as acceptable to unit paver and grout manufacturer. Trap or remove coating to prevent it from clogging drains.

3.07 MAINTENANCE

A. Inspection: Undertake an inspection of the paver surface with the installer, the construction manager and Architect and rectify all noted defects prior to handover.

B. Repairs: Repair or replace any damaged work to original specified condition prior to handover.

C. Maintenance:

- 1. The Contractor shall arrange for the installer to return to the site, as directed by the Owner's Representative, to rectify any problems in the Work caused by his failure to adequately align or position the pavers, compact the bedding material, or fill the joints.
- 2. Where lateral displacement of the sand set pavers has occurred adjacent to edge restraints the area shall be replaced with new pavers of the correct size to comply with the specified joint widths and the joint sand shall be re-sanded and additional joint sand stabilizer applied.

3.08 PROTECTION

A. Provide barricades and warning devices as required to protect pavement and the public.

B. Protect completed paving against damage during subsequent construction activities until date of Final Completion.

C. Cover openings of structures in paving until permanent coverings are placed.

3.09 FINAL ACCEPTANCE

A. Review Date: Submit a written request for review for Final Acceptance at least five (5) working days in advance.

B. Completion: Work will be accepted upon satisfactory completion of all unit paving work.

END OF SECTION 32 14 00

SECTION 32 15 43 - STABILIZED AGGREGATE SURFACING (STABILIZED SOLUTIONS)

PART 1 - GENERAL

1.01 SUMMARY

A. This Section includes material and labor requirements for construction with decomposed granite or crushed 3/8" or 1/4" minus aggregate pathway with Stabilizer® binder additive for the following items:

- 1. Stabilized aggregate surfaces for pedestrian pathways and surfaces.
- 2. Subgrade compaction.
- 3. Subbase aggregate installation and compaction.
- 4. Steel edging restraint on concrete footing.

1.02 PERFORMANCE REQUIREMENTS

A. Perform gradation of decomposed granite material or 3/8" or 1/4" minus crushed aggregate in accordance with ASTM C 136 - Method for Sieve Analysis for Fine and Coarse Aggregates.

1.03 SUBMITTALS

A. Manufacturer's Product Data: For each product specified, Submit a 2 lb. sample and sieve analysis for grading of decomposed granite or crushed 3/8" or 1/4" minus aggregate to be sent to Stabilizer Solutions, Inc., prior to any construction. Must be approved by Architect and Owner.

B. Shop Drawings: Show details of installation, including plans and sections.

C. Maintenance Instructions: Submit copy(ies) of manufacturer's written maintenance instructions.

1.04 PROJECT/SITE CONDITIONS

A. Field Measurements: Each bidder is encouraged to visit the site of the Work to verify the existing conditions. No adjustments will be made to the Contract Sum for variations in the existing conditions.

1. Where surfacing is indicated to fit with other construction, verify dimensions of other construction by field measurements before proceeding with the work.

B. Environmental Limitations: Do not install stabilized aggregate paving during rainy conditions or below 40 degrees Fahrenheit and falling.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Bidders to provide evidence to indicate successful experience in providing aggregate paving containing Stabilizer binder additive.

B. Mock-ups: Install 4 ft. wide x 10 ft. long mock-up of stabilized crushed aggregate paving with Stabilizer additive at location as directed by owner's representative.

C. Compaction testing to be provided by contractor, one test per 2,000 square feet of base course.

D. Manufacturer's technical representative shall visit the site at the start of an installation to ensure the installer understands the correct installation methods to use.

1.06 WARRANTY

A. Standard Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Special Warranty: Submit a written warranty executed by the installer agreeing to repair or replace components of stabilized surfacing that fail in materials or workmanship within the specified warranty period. Failures include, but are not limited to, the following:

- 1. Premature wear and tear, provide the material is maintained in accordance with manufacturer's written maintenance instructions.
- 2. Failure of system to perform requirements.
- 3. Warranty Period: Contractor shall provide warranty for performance of product. Contractor shall warranty installation of product for the time of one year from time when Architect has signed and authorized Substantial Completion.
- 4. Contractor shall provide, for a period of sixty days, unconditional maintenance and repairs as required.

PART 2 - PRODUCTS

2.01 STABILIZER

A. Stabilizer® for Stabilized Aggregate surfaces provided by the following manufacturer: Stabilizer Solutions, Inc. 33 South 28th St., Phoenix, AZ 85034 Ph. 602.955.2000 Website: stabilizersolutions.com

1. Stabilizer® Binder

- a. Patented, non-toxic, organic binder that is colorless and odorless concentrated powder that binds decomposed granite or crushed 3/8 or 1/4 inch minus aggregate
- b. Product shall have 25 years' experience at same formulation.

2.02 AGGREGATE MATERIALS

A. Decomposed Granite or Stone Screenings as follows:

- 1. Kafka Granite, LLC, 550 1/2 Main Street, Mosinee, WI 54455 Ph. (800) 552-7415 Website: www.kafkagranite.com.
- 2. Color: To be selected by Architect.
- 3. No substitutions.
- 4. Base aggregate: Compacted crushed #304 limestone.

2.03 EXCESS MATERIALS

A. Provide authorized rep. with the following excess materials for use in future Stabilized Aggregate repair: 40 to 50 lb. Bags of the Stabilized Aggregate blended with proper amount of Stabilizer®.

2.04 EDGE RETRAINTS

A. Steel: Standard commercial-steel edging, fabricated in sections of standard lengths, welded to face of sections to receive anchoring bolts.

SECTION 32 15 43 - STABILIZED AGGREGATE SURFACING (STABILIZED SOLUTIONS)

PART 1 - GENERAL

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SECTION 32 15 43 - STABILIZED AGGREGATE SURFACING (STABILIZED SOLUTIONS)

PART 1 - GENERAL

1.01 SUMMARY

A. Manufactured soil mix in this section shall hereafter be referred to as Organic Planting Soil or OPS Mix.

B. This Section applies only to the manufacturing and delivery of the planting soil mix to the site. Refer to Section 32 20 19 – Finish Grading for subgrade preparation, placement, and final grading.

1.02 SUMMARY

A. Section includes:

- 1. All labor, materials, equipment, and testing requirements necessary to provide and mix soil components, and deliver to site as specified herein, including but not necessarily limited to the following:
 - a. Construct the specified Organic Planting Soil profile using the specified materials and techniques as contained herein, on the drawings.
 - b. Imported or "off the shelf" products from authorized soil manufacturing facilities or suppliers.
 - c. Test excavated in-place soils for requirements contained herein.
- 2. Test, furnish and deliver all soil materials, including off-site borrow soils and soil amendment materials, such as composted materials, used in the OPS or per detail sections shown on the drawings.

1.03 REFERENCES AND STANDARDS

A. The following references are used herein and shall mean:

- 1. ASTM: American Society of Testing Materials
- 2. NCR221: Recommended Soil Testing Procedures for the North Central Region
- 3. SSSA: Soil Science of America, Methods of Soil Analysis, Part 1 & Part 3
- 4. TMCC: Test Methods for the Examination of Composting and Compost
- 5. USDA: United States Department of Agriculture
- 6. USEPA: United States Environmental Protection Agency
- 7. Standard Specifications: Regional, State or Municipal Standard Specification Documentations for the location of proposed usage.

1.04 DEFINITIONS

A. Compost: An organic material that has been aerobically composted and stabilized from feedstocks such as green waste (yard debris), biosolids or other suitable organic materials.

B. Debris or Deleterious Materials: Elements including but not limited to, concrete, concrete masonry, wood, excavated rock and rock fragments, rubble, overburden soils, abandoned utility structures, trash, refuse and litter.

C. Finish Grade: Elevation of finished surface of a Soil System after specified compaction and natural settling.

1.05 MAINTENANCE

A. Remove debris, such as paper,

Analysis for levels of heavy metals to include arsenic, cadmium, chromium, copper, lead, mercury, nickel, selenium, and zinc. Test results shall be cited in milligrams per kilogram dry weight with comparisons to USEPA 40 CFR Table 3 of 503.13 Pollutant Concentrations.

1. Particle size analysis shall be performed and compared to the USDA Soil Classification System per ASTM D422 (hydrometer test). The USDA sand and gravel classifications shall be determined on material retained on the #270 sieve following a wet washing procedure.

2. Deleterious materials shall be determined by ASTM D 5268.

3. Percent of organic matter by weight shall be determined by ASTM D 2974 Method C, loss on ignition at 440°C.

4. Saturated hydraulic conductivity shall be determined by ASTM F1815.

5. Analysis for nutrient levels in parts per millions or pound per acre including Nitrate Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Iron, Manganese, Zinc, Copper, Boron, and Sodium as Exchangeable Sodium Percentage (ESP) per NCR221.

6. Soluble salts shall be determined by electrical conductivity of a 1:2 soil/water slurry reported in millimhos per cm.

7. Cation Exchange Capacity (CEC) shall be determined using the ammonium acetate method.

8. Soil analysis reports shall also show recommendations for soil additives, including organic and inorganic soil amendments, necessary to accomplish particular mix objectives noted.

9. Compost Component Testing Submittale

a. Report(s) of analyses from producers of composted organic materials are required. The compost shall be analyzed using the USCC STA test methods and reporting format, as well as otherwise noted. Submit USCC STA Compost Technical Data Sheet for the delivered compost and dated within 9 months of the test.

b. Composted organic amendments shall be sampled according to the Ohio EPA State Law / Legislation Code: OAC Chapter 3745-24-46.

c. Maintain clear and concise records of testing and sampling procedures.

10. Testing Agencies: The following firms are acceptable testing agencies for the various components:

a. Sols and mixes shall be determined by an A2LA Accredited Lab, such as Turf Diagnostics and Design, 613 E. 1st Street, Limwood, KS, 66052, tel. 855-769-4231, www.turfdiag.com or other qualified soil physical testing laboratory approved by the Architect.

b. Certified Local Agencies may be used pending approval by the Architect.

c. All testing reports may contain the laboratory name. Test results shall be interpreted as prescribing or dictating procedures or indicating quantities of soil materials for the work of this Contract.

d. Changing laboratories during the mix development phase or for quality assurance testing must be authorized by the Architect.

e. Statement(s) of Qualifications: Submit within 45 days of notice to proceed to confirm qualifications of the selected testing agencies.

11. Submit samples of all listed materials to the Architect for approval:

a. Topsoil, each source, 5 lb. packaged.

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b. Compost, each source, 5 lb. packaged.

c. Organic Planting Soil (final mix), 5 lb. packaged.

d. Submit for approval at least two weeks prior to installation a written plan for mixing, transporting, and storing materials.

1.06 QUALITY ASSURANCE

A. The OPS mix is comprised of approved topsoil, additional organic amendment, and possibly other soil amendment materials, as determined by the testing laboratory. Each component of the OPS mix must meet the specification and be verified by testing as specified herein, prior to delivery to the site.

B. Soil System Components of the OPS mix will not be accepted unless they meet all submittal, testing and certification requirements including the testing and certification reports in the format specified herein.

C. Sequencing and Scheduling: Adjust, relate together and otherwise coordinate work of this Section with other Project work as contained in all other Sections of the Project Specifications.

1.08 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Packaged Materials: Deliver packaged materials to the location where soils are to be mixed, in unopened bags or containers, each bearing the name, guarantee, and trademark or the producer, material composition, manufacturer's certified analysis, and the weight or the material. Retain packages for the Architect.

B. Store and handle packaged materials in strict compliance with manufacturer's instructions and recommendations. Protect all materials from weather, damage, and theft.

C. Soil mixes or amendment materials stored on site temporarily in stockpiles prior to placement shall be protected from intrusion of contaminants and erosion. All temporary storage means, and methods shall be approved by the Architect.

D. After mixing, soil mixes shall be covered with a tarpaulin until time of actual use and protected from contamination, excessive rainfall, excess water entering the site or erosion.

E. Stockpiling

1. On-site and Certified Mixing Facility stockpiles should be restricted to no more than the needs of what can be used in a 72-hr. period. Under no circumstances shall on-site or off-site stored material exceed 1000 cubic yards.

2. Stockpiles should be no more than 6 feet in height to prevent anaerobic conditions within the pile. Stockpiling areas should be cleaned every other week (unless otherwise instructed by the Architect) to prevent anaerobic conditions from water absorption and anaerobic conditions. Storage areas for topsoil, soil components or planting system mixes shall be constructed on well drained land, away from the stream.

F. The Architect reserves the right to take and analyze at any time such additional samples of materials as deemed necessary for verification of conformance to specification requirements. Contractor shall furnish samples for this purpose upon request and shall perform testing as requested.

G. Samples of individual components to the OPS mix shall be submitted by the Contractor for testing and analysis to the approved testing laboratory.

H. OPS soil components shall not be used until test reports from the approved testing laboratory have been received and approved by the Architect.

I. OPS System Components and Soil System Mix samples that do not meet the Specifications will be rejected by the Contractor to submit additional samples for testing. Costs for re-testing will be the responsibility of the Contractor.

J. When OPS mix samples do not meet specification, make the needed adjustments to the mix per the test result recommendations. Retest new OPS mix sample and resubmit tests reporting amendment changes until approved.

K. Observations and periodic testing will be made by the Owner or its designated representative on materials delivered to the site. OPS mix not meeting the requirements of the Specifications shall be removed or banned by the Contractor at no cost to the project.

L. Qualification

1. Testing Laboratory: Experienced person(s) employed by public or private testing laboratory, qualified and capable of performing tests, making soil recommendations, and issuing reports as specified. The Testing Laboratory shall submit a Statement of Qualifications regarding the specific testing services to be provided.

2. It shall be the responsibility of the Contractor to see that the specifications shall be adhered to. Failure of the Architect to immediately reject unsatisfactory workmanship or to notify the Contractor of his/her deviation from the specifications shall not relieve the Contractor of his/her responsibility to repair and/or replace unsatisfactory work.

3. Pre-installation Conferences: Person(s) responsible for soil preparation and mixes of this Section shall attend Pre-installation Conference(s) to coordinate with work of other sections.

PART 2 - PRODUCTS

2.01 GENERAL

A. All Organic Planting Soil components shall fulfill the requirements as specified.

B. Site prepared topsoil will not be permitted for use as an OPS "Soil System Mix" component.

C. For the purposes of this specification, all OPS mix is mixed off site, tested, approved, and imported from a certified facility.

2.02 SOIL SYSTEM MIX – COMPONENT MATERIALS

A. Soil Component

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G. Adequate quantities of Planting Mix materials shall be provided to attain, after compaction and natural settlement, all design finish grades. Verify quantities for placement as specified to suit site conditions.

2.05 FERTILIZERS AND OTHER SOIL AMENDMENT MATERIALS

A. Fertilizers and other soil amendment materials will only be used based on results of analysis and the recommendations of a qualified landscape Agrometric.

- All fertilizers used shall be labeled showing the brand name, minimum guaranteed analysis, rate, and derived from a manufacturer or distributor, manufacturer's name and address.
- Limestone: An Agricultural Limestone with a minimum of 85 percent of calcium and magnesium carbonate. Ground limestone material shall have total 100 percent passing the 10-mesh sieve, minimum of 90 percent passing the 20-mesh sieve and a minimum of 60 percent passing the 100-mesh sieve packaged or prior to pelletizing.
- Sulfur: Granular, Biodegradable with a minimum 99 percent passing through No. 6 sieve and a maximum 10 percent passing through No. 40 sieve.
- Agricultural Gypsum: Finely ground product containing a minimum of 90 percent calcium sulfate.

PART 3 - EXECUTION

3.01 GENERAL

A. Section 3 22 19 – Finish Grading applies.

END OF SECTION 32 91 30

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SECTION 32 92 00 - TURF GRASS AND SOD

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

- Sodding.
- Turf renovation.
- Erosion-control material(s).
- Maintenance

B. Definitions:

- Backfill: Soil material or controlled low-strength material used to fill an excavation.
- Base Mix: Homogenously blended mix of the specified topsoil and the specified sand which is then used for mixing with the specified organic amendment to create various Planting Mixes.
- Compost: An organic material that has been aerobically composted and stabilized from feedstocks such as a green waste (yard debris) or other suitable organic materials.
- Finish Grade: Elevation of finished surface of planting soil.
- Manufactured Planting Soil Mix: Soil produced off-site by homogenously blending mineral soils with organic materials and soil amendments to produce a planting soil.
- Pesticide: A substance or mixture intended for preventing, destroying, repelling, or mitigating a pest. Pesticides include invertebrates, fungi, herbicides, fungicides, rodenticides, and molluscicides. They also include substances or mixtures intended for use as a plant regulator, defoliant, or desiccant.
- Pests: Living organisms that occur where they are not desired or that cause damage to plants, animals, or people. Pests include insects, mites, grubs, mollusks (snails and slugs), rodents (gophers, moles, and mice), unwanted plants (weeds), fungi, bacteria, and viruses.
- Planting Soil: Existing on-site soil; imported soil; or manufactured soil that has been modified with soil amendments and perhaps fertilizers to produce a soil mixture best for plant growth. Soil preparations vary. See Sections 329100 through 329140 – Planting Prep and Soils for soil preparation and drawing designs for planting soils.
- Sieve: A structural device that has been processed to remove coarse gravel, silt and clay and sized to meet the specifications.
- Subgrade: The surface or elevation of subsoil remaining after excavation is complete, or the top surface of a fill or backfill before planting soil is placed.
- Subsoil: All soil beneath the topsoil layer of the soil profile and typified by the lack of organic matter and soil organisms.
- Surface Soil: Soil that is present at the top layer of the existing soil profile at the Project site. In undisturbed areas, the surface soil is typically topsoil, but in disturbed areas such as urban environments, the surface soil can be subsoil.

1.03 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site prior to beginning seedbed preparations. Construction Manager, Owner and Architect should be notified at least one week prior to the intended meeting date.

3.02 PREPARATION

A. Protect structures, utilities, sidewalks, pavements, and other facilities, trees, shrubs, and plantings from damage caused by planting operations.

- Protect grade stakes set by others until directed to remove them.

B. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

3.03 TURF AREA PREPARATION

A. General: Prepare planting area for soil placement, mix planting soil and finish grades according to specifications.

B. Placing Planting Soil: Place and prepare soil mix per Specifications 31 22 19 - Finish Grading.

- Reduce elevation of planting soil to allow for soil thickness of soil.

C. Measure and prepare area for planting if soil is dry. Water thoroughly and allow surface to dry before planting. Do not create mud.

D. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

3.04 APPLICATION OF FERTILIZER

A. Fertilizers and conditioners shall be applied at the following rates:

- Fertilizer – Apply at rates according to soil analysis testing reports.
- Mixing with planting soil:

- Fertilizer and conditioners shall be spread over the entire lawn areas at the application rates indicated above.
- Materials shall be uniformly and thoroughly mixed into the top 4" of topsoil by discing, rototilling, or other approved method.

3.05 PREPARATION FOR EROSION-CONTROL MATERIALS

A. For erosion-control blanket or mesh, install from top of slope, working downward, and as recommended by material manufacturer for site conditions. Fasten as recommended by material manufacturer.

B. Moisten prepared area before planting if surface is dry. Water thoroughly and allow surface to dry before planting. Do not create muddy soil.

3.06 SODDING

A. Harvest, store, and lay sod within 12 hours of harvesting unless a suitable preservation method is specified by Architect prior to delivery time. Do not lay sod if dormant or if soil is frozen or muddy.

B. Lay sod to form a solid mass with tightly joined joints. Butt ends and sides of sod; do not stretch or overlap. Stagger sod strips or pads to offset joints in adjacent courses. Avoid damage to soil or sod during installation. Tamp and roll lightly to ensure contact with soil, eliminate air pockets, and form a smooth surface. Cut fine sand into minor cracks between pieces of sod; remove excess to avoid smothering soil and adjacent grass.

- Lay sod across slopes exceeding 1:3.

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2. Anchor sod on slopes exceeding 1:6 with biodegradable sod stakes spaced as recommended by sod manufacturer but not less than two anchors per sod strip to prevent slippage.

C. Saturate soil with fine water spray within two hours of planting. During first week after planting, water daily or more frequently as necessary to maintain moist soil to a minimum depth of 1/2 inches below sod.

D. No heavy equipment to be allowed on amended soil during installation of sod. All equipment for sodding and maintenance should be either track type or utilize high flotation turf type tires.

3.07 TURF RENOVATION

A. Renovate existing turf where indicated.

B. Renovate damaged by Contractor's operations, such as storage of materials or equipment and movement of vehicles.

- Reestablish turf where settlement or washouts occur or where minor grading is required.
- Install new planting soil as required.

C. Remove soil and vegetation from diseased or unsatisfactory turf areas; do not bury in soil.

D. Remove topsoil containing foreign materials, such as oil drippings, fuel spills, stones, gravel, and other materials resulting from Contractor's operations, and replace with new planting soil.

3.08 TURF MAINTENANCE

A. Turf Maintenance Service: Provide full maintenance by skilled employees of landscape Installer. Begin maintenance immediately after each area is planted and continue until acceptable turf is established, but for not less than the following periods:

- Sodded Turf: 30 days from date of Substantial Completion.
- Maintain and establish turf by watering, fertilizing, weeding, mowing, trimming, replanting, and performing other operations as required to establish healthy, viable turf. Roll, grade, and repeat to produce a uniformly smooth turf. Provide materials and installation the same as those used in the original installation.
- Fill in as necessary soil subsidence that may occur because of settling or other processes. Replace materials and turf damaged or lost in areas of subsidence.
- Apply treatments as required to keep turf and soil free of pests and pathogens or disease.

B. PESTICIDE APPLICATION

- Apply pesticides, including chemical products and biological control agents, according to methods of application having jurisdiction and manufacturer's written recommendations. Coordinate applications with Owner's operations and others in proximity to the Work. Notify Owner before each application is performed.
- Post-Emergent Herbicides (Selective and Nonselective): Apply only as necessary to treat already-germinated weeds and according to manufacturer's written recommendations.

C. CLEANUP AND PROTECTION

- Provide quality, size, genus, species, and variety of plants indicated, complying with applicable requirements in ANSI Z60.1.
- Selection of plants purchased under allowances is made by Architect, who tags plants at their place of growth before they are prepared for transplanting.
- Measurements: Measure according to ANSI Z60.1. Do not prune to obtain required sizes.
- Trees and Shrubs: Measure with branch and trunk or canopy in their natural position. Take height and diameter at the top of the trunk or root system of field-grown stock and container-grown stock. Measure main trunk or shrub for height and spread; do not measure branches or roots tip to tip. Take caliper measurements 6 inches above the root flare for trees up to 4-inch caliper size, and 12 inches above the root flare for larger sizes.
- Other Materials: Measure from stem, petiole, and edge in normal position.

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5. Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.

6. Tree Selection Approval:

- Acceptable trees will meet the following health and structure requirements: single dominate leader, branching pattern appropriate for species, trunk diameter at height per plant, petiole and durable wood, damage free and no ASCE requirements. Acceptable trees will also meet the following aesthetic requirements: straight trunk, symmetry, uniformity and fullness of branching, general form, and overall uniformity of all trees of a species. No trees shall be delivered to the site without documentation.

B. Samples for Preparation:

- Organic Mulch: 1 cubic yard of each organic mulch required; in sealed plastic bags labeled with the name of material, percentage of weight and source of each. Each sample shall be typical of the lot of material to be furnished; provide an accurate representation of color, texture, and organic makeup.
- Weed Control Barrier: 12 by 12 inches.
- Proprietary Root-Ball Stabilization Device: One unit.
- Slow-Release Tree-Watering Device: One unit of each size required.
- Edging Materials and Accessories: Manufacturer's standard size, to verify color selected.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer. Include a list of similar projects completed by Installer demonstrating its capabilities and experience. Include project names, addresses, and year completed, and include names and addresses of owners' contact persons.

B. Product Certificates: For each type of manufactured product, from manufacturer, and complying with the following:

- Manufacturer's certified analysis of standard products.
- Pesticides and Herbicides: Product label and manufacturer's application instructions specific to Project.

C. Close out Submittals: Submit to the Architect for approval.

- Plant material data, requirements and recommended maintenance schedules and procedures for the first year of warranty period.
- Warranty period site visit record: If the client assumes maintenance responsibilities during the warranty period per the specifications, the Contractor is to submit a written record to the Architect of her/his observations visits, citing any problems, potential problems, and any recommended corrective actions needed by the client. Refer to Part 3 for Maintenance responsibilities.

D. Preinstallation Conference: Conduct conference at Project site.

1.07 QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful establishment of plants.

- Professional Membership: Installer shall be a member in good standing of either the National Association of Landscape Professionals or the American Nursery and Landscape Association.
- Experience: Five years' experience in landscape installation.
- Submit reference list of at least five completed representative projects indicating project name, address, telephone number, contract amount, Architect's and Facilities Manager's name.
- Landscape Contractor: Submitting bids shall be pre-qualified before award of contract. Each reference shall be contacted to verify workmanship and general business practices.

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1.04 INFORMATIONAL SUBMITTALS

A. Qualification Data: For landscape Installer.

- Professional Membership: Installer shall be a member in good standing of either the Professional Landscape Network or the American Nursery and Landscape Association.
- Experience: Five years' experience in turf installation.
- Installer's Field Supervision: Require Installer to maintain an experienced full-time supervisor on Project site when work is in progress.
- Personnel Certifications: Installer's personnel assigned to the Work shall have certification in one of the following categories from the Professional Landscape Network:
 - Certified Landscape Technician - Exterior, with installation or maintenance

B. Certification of Grass Seed:

From vendor for each grass-seed monostand or mixture, stating the common and common name, percentage by weight of each species and variety, and percentage of purity, germination, and weed seed. Include the date of production and date of packaging.

C. Product Certificates:

For fertilizers, from manufacturer. Product label and manufacturer's application instructions specific to Project. Only use those recommended by the manufacturer.

D. Pesticides and Herbicides:

Product label and manufacturer's application instructions specific to Project. Only use those recommended by the manufacturer.

E. Accompany each delivery of bulk materials with appropriate certificates.

1.08 FIELD CONDITIONS

A. Planting Restrictions: Plant during one of the following periods. Coordinate planting periods with Insert starting time.

- Spring Planting: April 1 to June 1.
- Fall Planting: August 15 to October 1.

B. Weather Limitations:

Proceed with planting only when beneficial and optimum results may be obtained. Apply products during favorable weather conditions according to manufacturer's written instructions.

C. Work notification:

Notify the Architect at least seven working days before installation of lawn materials.

D. Verify location and extent of underground utilities:

Protect existing utilities. Protect existing utilities, irrigation, paving and drainage facilities from damage caused by lawn work operations.

E. Perform in turf work only after planting and other work affecting ground surface has been completed.

F. Restrict traffic from lawn areas until grass is established. Erect temporary signs and barriers as required by the Architect.

G. Locate, protect, and maintain newly installed irrigation system during lawn work operations.

Repair irrigation system components, damaged during lawn work operations, at Contractor's expense.

H. Provide necessary hose and watering equipment as required for lawn maintenance.

1.09 CLOSEOUT SUBMITTALS

A. Maintenance Data: Recommended procedures to be established by Owner for maintenance of turf during a calendar year. Submit before expiration of required maintenance periods.

B. QUALITY ASSURANCE

A. Installer Qualifications: A qualified landscape installer whose work has resulted in successful establishment of plants.

- Professional Membership: Installer shall be a member in good standing of either the National Association of Landscape Professionals, the Ohio Nursery and Landscape Association or the American Nursery and Landscape Association.

B. Experience:

- Five years' experience in turf installation.

C. Product Certificates:

- For fertilizers, from manufacturer. Product label and manufacturer's application instructions specific to Project. Only use those recommended by the manufacturer.

D. Pesticides and Herbicides:

- Product label and manufacturer's application instructions specific to Project. Only use those recommended by the manufacturer.

E. Accompany each delivery of bulk materials with appropriate certificates.

1.10 WARRANTY

A. Warranty Period: Warranty that grasses shall be in a healthy and flourishing condition of active growth at the end of the growing season after the date of Final Acceptance.

B. Conditions: Established turf that is free of dead or dying patches and shows vigorous growth of foliage of normal density, size, and color.

C. Delays: Delays in completion of planting operations which extend the planting and/or acceptance of Substantial Completion into the next planting season shall extend the Warranty period accordingly.

1.11 FIELD CONDITIONS

A. Work notification: Notify the Architect at least seven working days before installation of plant material.

B. All trees must be evaluated and approved by the Architect prior to planting.

C. Verify location and extent of underground utilities. Protect existing utilities, paving and other facilities from damage caused by landscaping operations.

D. Field Measurements: Verify actual grade elevations, service and utility locations, irrigation system components, and dimensions of plantings and construction contiguous with new plantings by field measurement with the contractor.

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3. When the work is accepted in parts, the warranty periods shall extend from each of the parts. Substituted Components: Acceptances to the terminal date of the last warranty period. These warranty periods for each class of plant warranty, shall terminate at one time.

4. Include the following remedial actions as a minimum:

- Immediately remove dead plants and replace unless required to plant in the succeeding planting season.
- Replace plants that are more than 25 percent dead or in an unhealthy condition at end of warranty period.
- A limit of one replacement of each plant is required except for losses or replacements due to failure to comply with requirements.
- Provide extended warranty for period equal to original warranty period, for replaced plant material.

B. End of Warranty Final Acceptance - Acceptance of plants at the end of the warranty period.

- At the end of the warranty period, the Architect shall observe all warranted work, upon written request of the Contractor. The request shall be received at least ten calendar days before the anticipated date for final observation.
- End of Warranty Final Acceptance will be given only when all the requirements of the work under this specification and in specification sections Planting Soil and Irrigation have been met.

PART 2 - PRODUCTS

2.01 PLANT MATERIAL

A. General: All nursery-grown plants true to genus, species, variety, cultivar, stem form, planting sizes, grades and container sizes and other features indicated in Plant List, Plant Schedule or Plant Legend indicated on Drawings and complying with ANSI Z60.1; and with healthy root systems developed by transplanting or root pruning. Provide well-shaped, full headed, healthy, vigorous and dense foliage in a firm, free draining soil. Free of pests, eggs, larvae, and defoliation, knots, scaly injuries, abscission, and disfiguration.

- Growing Practices: Nursery growth in accordance with best horticultural industry practices.
- Plant Nomenclature: Plant nomenclature shall meet requirements of ICBN and ICNCP.
- Climatic Growing Conditions: Grow under climatic conditions (same USDA hardiness zone) of those of the project and within 150 miles of the project site for at least two years unless otherwise accepted by Architect.
- Container Growth Limitations: Container stock shall have been grown in the container in which delivered for at least six months, but not over two years.
- Species: All species shall be naturally straight, able to stand upright without stakes or guy wires, especially heavy, symmetrical, light knoll, or train, or favored in development, and appearance as to be superior in form, number of branches, compactness, and symmetry.
- Trees with damaged, crooked, or multiple leaders; light vertical branches where bark is squeezed between two branches or between branch and trunk ("included bark"); crooked, out-of-bounds limbs more than 3/4 inch in diameter; or with stem girdling roots to be rejected.
- Collected Stock: Do not use plants harvested from the wild, from native stands, from an established landscape planting, or not grown in a nursery unless otherwise indicated.
- Pruning: Do not prune, thin, or shape plants before delivery without acceptance by the Architect.
- Substitutions: Accepted substitute plants shall be true to species and variety and shall meet requirements of this Section except those plants larger than specified may be used, if accepted in

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- Lay out individual tree and shrub locations and areas for multiple plantings. Stake locations, outline areas, adjust locations where requested, and obtain Architect's acceptance of layout before executing any work, including minor adjustments, as required.
- Lay out plants locations directed by Architect. Stake locations of individual trees and shrubs and outline areas for multiple plantings.
- Apply antidesiccant to trees and shrubs using power spray to provide an adequate film over trunks (before wrapping), branches, stems, twigs, and foliage to protect during digging, handling, and transportation.
- If deciduous trees or shrubs are pruned in full leaf, spray with antidesiccant at nursery before shipping.
- Wrap trees and shrubs with basic over-barks, branches, stems, twigs, and foliage to protect from wind and other damage during digging, handling, and transportation.

3.03 PLANTING AREA ESTABLISHMENT

A. General: Prepare planting area for soil placement and mix planting soil according to the requirements of Planting Soil Mix, Sections 32 91 00 through 32 91 40.

B. Plant Protection: Protect planting soil-in-place over exposed subgrade.

C. Before planting, obtain Architect's acceptance of finish grading; restore planting areas if eroded or otherwise disturbed after finish grading.

D. Application of Mycorrhizal Fungi: At time directed by Architect, broadcast dry product uniformly over prepared soil at application rate according to manufacturer's written recommendations.

3.04 EXCAVATION FOR TREES AND SHRUBS

A. Planting Pits and Trenches: Excavate circular planting pits.

- Excavate planting pits to sides sloping inward at a 45-degree angle. Excavations with vertical sides are unacceptable. Trim perimeter of bottom leaving center area of bottom raised slightly to support root ball and assist in drainage away from center. Do not further disturb base. Ensure that root ball will sit on undisturbed base soil to prevent settling.
- Excavate approximately three times as wide as ball diameter for balled and burpapped and potted stock.
- Excavate at least 12 inches wider than root spread and deep enough to accommodate vertical roots for bare-root stock.
- Do not excavate deeper than depth of the root ball, measured from the root flare to the bottom of the root ball.
- If the area under the plant was initially dug too deep, add soil to raise it to the correct level and backfill the added soil to prevent settling.
- Mark radius of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
- Maintain radius of repose of adjacent materials to ensure stability. Do not excavate subgrades of adjacent paving, structures, hardscapes, or other new or existing improvements.
- Keep excavations covered or otherwise protected when unattended by Installer's personnel.
- If drain tile is indicated on Drawings or required under planting areas, excavate to top of porous backfill over tile.

B. Backfill Soil: Subsoil and topsoil removed from excavations may not be used as backfill soil unless otherwise indicated.

C. Obstructions: Notify Architect if unexpected rock or obstructions detrimental to trees or shrubs are encountered in excavations.

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wrap material, resetting plants to proper grades and upright position, and furnishing and applying such sprays as are necessary to keep plantings reasonably free of damaging insects and disease, and in healthy condition. The threshold for applying insecticides and herbicide shall follow the most recent Pest Management (IPM) procedures. Mulch areas shall be kept reasonably free of weeds, grass, and debris.

3.18 SUBSTANTIAL COMPLETION ACCEPTANCE

A. Upon written notice from the Contractor, the Owners Representative shall review the work and decide if the work is substantially complete.

- Notification shall be at least 7 days prior to the date the contractor is requesting the review.
- The date of substantial completion of the planting shall be the date when the Architect accepts that all work in Planting, Planting Soil, and Irrigation installation sections is complete.
- The Plant Warranty period begins at date of written notification of substantial completion from the Architect. The date of substantial completion may be different than the date of substantial completion for the other sections of the project.

3.19 MAINTENANCE DURING THE WARRANTY PERIOD (By Client / Others)

A. After Substantial Completion Acceptance, the Contractor shall make sufficient site visits to observe the Owner's maintenance and become aware of problems with the maintenance in time to request changes, until the date of End of Warranty Final Acceptance.

- Maintain plantings in working condition, including watering, is not sufficient to maintain plants in a healthy condition. Such notification must be made in a timely period so that the Architect may take corrective action.
- Notification must define the maintenance needs and describe any corrective action required.
- If the Contractor fails to visit the site and or notify, in writing, the Architect of maintenance needs, lack of maintenance shall not be used as grounds for voiding or modifying the provisions of the warranty.

3.20 END OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

A. At the end of the Warranty and Maintenance period the Architect shall observe the work and evaluate the provisions of the contract are complete, and the work is satisfactory.

- If the work is satisfactory, the maintenance period will end on the date of the final observation.
- If the work is deemed unsatisfactory, the maintenance period will continue at an additional expense to the Owner until the work has been completed, observed, and approved by the Architect.

B. FAIL TO PASS OBSERVATION: If the work fails to pass final observation, any subsequent observations must be rescheduled as per above. The cost to the Owner for additional observations will be charged to the Contractor at the prevailing hourly rate of the Owners Representative.

END OF SECTION 32 93 00

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PLANTS, TREES, GC
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written by the Architect. Provide plants of sizes, grades, and ball or container sizes complying with ANSI Z60.1 for type, grade and of plants required. Plants of a larger size may be used if accepted by the Architect, with a proportionate increase in cost.

- Substrates will only be accepted up to 60 days post bid submittal. Contractor is responsible to identify availability of materials and inform Architect of any stock shortages prior to the 60 day post bid submittal.
- Root-Ball Depth: Furnish trees and shrubs with root balls measured from top of root ball, which begin root flare measured from top of trunk to the ground.
- Labeling: List each tree or shrub variety, size, and caliper with a securely attached waterproof tag with legible designation of common name, scientific name, and includes genus and species. Include nomenclature for hybrid, variety, or cultivar, if applicable for the plant.
- If formal arrangements or consecutive order of plants is indicated on Drawings, select stock for uniform height and spread, and number the labels to receive symmetry in planting.

2.02 SHADE AND FLOWERING TREES

A. Shade Trees: Single-stem trees with straight trunk, well-balanced crown, and intact leader, of height and caliper indicated, complying with ANSI Z60.1 for type of trees required.

- Provide balled and burpapped or container-grown trees.
- Branching Height: One-third to one-half of tree height.
- Street Trees: Street trees must be limited to 8 feet minimum.
- Forked Trunks on trees are not acceptable; each tree must have one strong central leader.

B. Small Upright and Spreading Trees: Branched or pruned naturally according to species and type, with relationship of caliper, height, and branching according to ANSI Z60.1; stem form as follows:

- Stem Form: Single stem.
- Multi-Stem: Unless noted otherwise, tree shall have 3-5 trunks forked at or above root flare. Overall height determines size of tree.
- Provide balled and burpapped trees.
- Forked Trunks on trees are not acceptable; each tree must have one strong central leader.

2.03 SHRUBS

A. Form and Size: Deciduous shrubs with no less than the minimum number of canes required by and measured according to ANSI Z60.1 for type, shape, and height of shrub.

2.04 GROUND COVER / PERENNIAL / ANNUAL PLANTS

A. Ground Covers / Perennials: Provide ground cover of species indicated, established, and well maintained according to ANSI Z60.1 for type, shape, and height of plant.

B. Annuals: Provide annuals of variety, variety shown or similar shown or listed, with well-established root systems reaching to sides of the container to maintain a firm ball, but not with excessive root growth encircling the container. Provide only plants that are acclimated to outdoor conditions before delivery, and that are but not yet in bloom.

2.05 FERTILIZERS

A. Refer to Soil Mix specifications test results and Final Grading for soil amendments.

B. Bonemeal: Commercial, raw or steamed, finely ground; a minimum of 1 percent nitrogen and 10 percent phosphoric acid.

2.06 MULCHES

A. Organic Mulch: Free from deleterious materials and suitable as a top dressing of trees and shrubs, consisting of one of the following:

- Type: Shredded hardwood.
- Size Range: 3 inches maximum, 1/2 inch minimum.
- Color: Natural.

B. Landscape Edge Restraints

- Steel Edging: Standard commercial steel edging, fabricated in sections of standard lengths, with loops stamped from or welded to face of sections to receive stakes.
- Manufacturers:

 - Border Concepts, Inc.
7621 Little Avenue
Suite 426
Charlotte, NC 28226
Ph. No.: 800-845-3343

- Edging Size: 3/16 inch thick by 4 inches deep.
- Stakes: Tapered steel, a minimum of 24" long (Super Stakes).
- Accessories: Standard tapered ends, pre-formed corners, and splicers.
- Finish: Unfinished.

2.08 PESTICIDES

A. General: Pesticides registered and approved by the EPA, acceptable to authorities having jurisdiction, and type recommended by manufacturer for each specific problem and as required for Project conditions and application. Do not use restricted pesticides unless authorized in writing by authorities having jurisdiction.

B. Pre-Emergent Herbicide (Selective and Nonselective): Effective for controlling the germination or growth of weeds planted areas at the soil level directly below the mulch layer.

C. Post-Emergent Herbicide (Selective and Nonselective): Effective for controlling weed growth that has already germinated.

2.09 TREE-STABILIZATION MATERIALS

A. Antidesiccant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs. Deliver in original, sealed, and fully labeled containers and mix according to manufacturer's written instructions.

- Upright Guy Stakes: Rough-sawn, sound, new [hardwood] [softwood with specified wood pressure-preserved treatment], free of knots, holes, cross grain, and other defects, 2-by-4 inch nominal by length indicated, pointed at one end.
- Guying Material

2.11 TREE-WATERING DEVICES

A. Slow-Release Watering Device: Standard product manufactured for drip irrigation of plants and emptying its water contents over an extended time period, manufactured from UV-light-stabilized nylon-reinforced polyethylene sheet, PVC, or HDPE plastic.

B. Color: As selected by Architect from manufacturer's full range.

C. Miscellaneous Products

- Antidesiccant: Water-insoluble emulsion, permeable moisture retarder, film forming, for trees and shrubs, consisting of one of the following:
- Stake: Tapered steel, a minimum of 24" long (Super Stakes).
- Accessories: Standard tapered ends, pre-formed corners, and splicers.
- Finish: Unfinished.

2.13 SOURCE QUALITY CONTROL

A. Advanced Tree Procurement:

- Within 60 days of award of contract, notify Architect in writing of the availability or lack thereof the specified plant material.
- Procure trees and arrange for contract growing as required to ensure that plant material is available in the quantities, sizes, and quality specified at the time of installation.

2.14 PESTICIDE APPLICATION

A. Protection of Utilities, Sidewalks, Pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

B. Use every possible precaution to prevent excessive compaction of planting area soil within or adjacent to the areas of work.

C. Do not store materials or equipment or operate or park vehicles under the drip line of existing or newly planted trees. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

2.15 PREPARATION

A. Protection of Utilities, Sidewalks, Pavements, and other facilities and turf areas and existing plants from damage caused by planting operations.

B. Use every possible precaution to prevent excessive compaction of planting area soil within or adjacent to the areas of work.

C. Do not store materials or equipment or operate or park vehicles under the drip line of existing or newly planted trees. Install erosion-control measures to prevent erosion or displacement of soils and discharge of soil-bearing water runoff or airborne dust to adjacent properties and walkways.

2.16 REPAIR AND REPLACEMENT

A. General: Repair or replace existing or new trees and other plants that are damaged by construction operations, in a manner approved by Architect.

B. Submit details of proposed pruning and repair.

C. Perform repairs of damaged trunks, branches, and roots within 24 hours, if approved.

2.17 GROUND COVER AND PLANT PLANTING

A. Set out ground cover and plants other than trees, shrubs, and vines as indicated on Drawings in even rows with triangular spacing.

B. Use planting soil mix as per drawings for backfill.

C. Dig holes large enough to spreading of roots.

D. For rooted cutting plants supplied in flats, plant each in a manner that minimally disturbs the root system and not less than two nodes.

E. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.

F. Water thoroughly after planting, taking care not to cover plant crowns with soil.

G. Protect plants from hot sun and wind, remove protection if plants show evidence of recovery from transplanting shock.

2.18 PLANTING AREA MULCHING

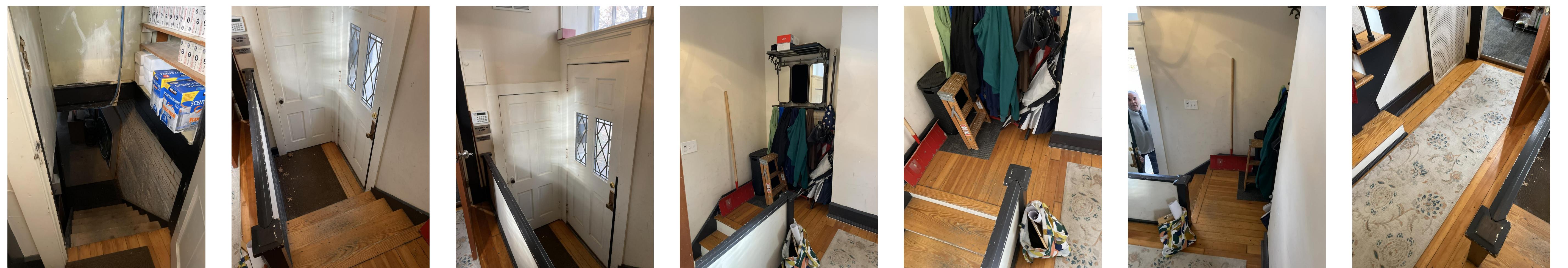
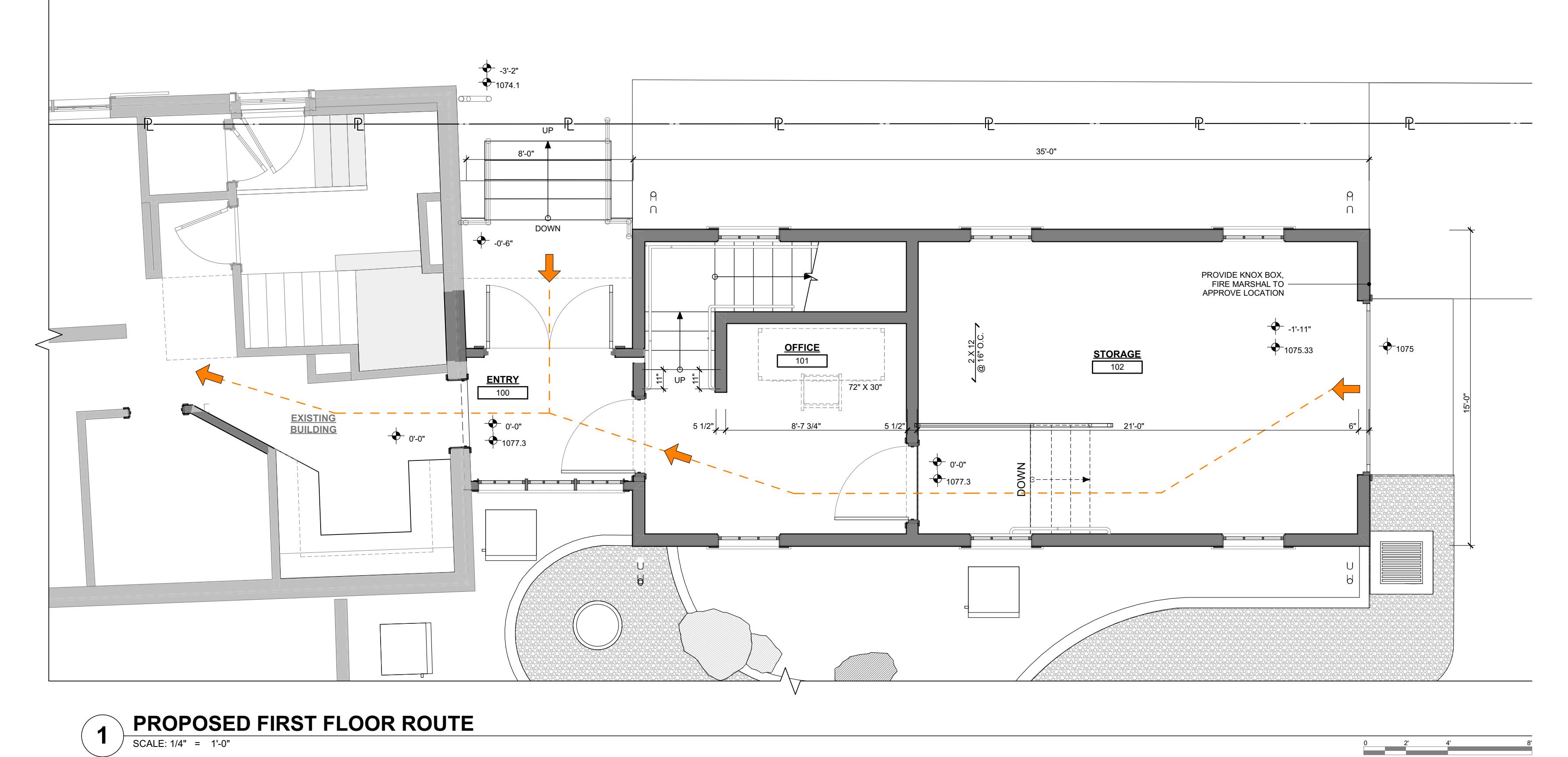
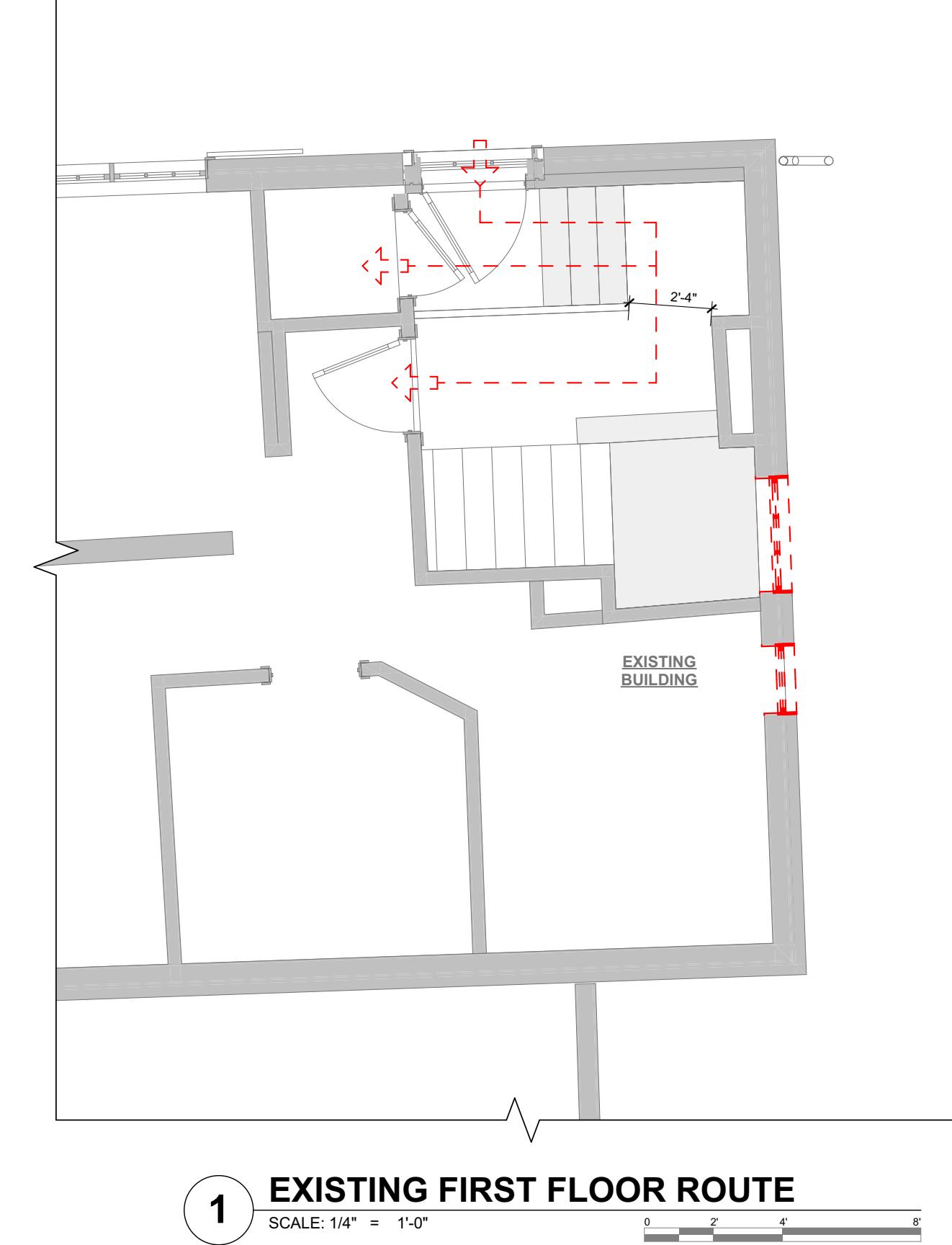
A. Place a layer of drainage gravel at least 4 inches thick in bottom of planter. Cover bottom with filter fabric and wrap filter fabric 4 inches up on all sides. Duct tape along the entire top edge of the filter fabric to secure the filter fabric against the sides during the soil-tiling process.

B. Fill planter with planting soil mix as per drawings. Place soil in lightly compacted layers to an elevation of 1/2 inches above top of planter, allowing natural settlement.

2.19 TREE STABILIZATION

A. Upright Staking Method: Stake trees of 2-inch through 3 1/2-inch caliper. Install trunk stabilization as follows unless otherwise indicated:

1. Install wood stake vertically as per detail driving stake minimum of 18 inches into subgrade.



**PROGRESS
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12/23/2025

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FLOOR PLAN GENERAL NOTES

VERIFY DIMENSIONS AND CONDITIONS IN FIELD. WHEN DIMENSIONS AND CONDITIONS AS INDICATED ON DRAWINGS CONFLICT WITH ACTUAL, CONTACT ARCHITECT FOR CLARIFICATION

BLOCK WEBBS SOLD AT BEARING WALL LOCATIONS ABOVE

PROVIDE SOUND DEADENING INSULATION AROUND BEDROOMS, BATHROOMS, AND KITCHEN AREAS IN EXISTING STACKS

BLOCK WEBBS SOLD AT BEARING WALL LOCATIONS ABOVE

COORDINATE EXACT LOCATIONS OF FLUOR DRAIN WITH MECH CONTRACTOR

ALL FOOTINGS TO EXTEND DOWN TO FROST LEVEL MIN.

COORDINATE EXACT LOCATIONS OF FLUOR DRAIN WITH MECH CONTRACTOR

ALL INTERIOR DOORS TO BE 1-1/8" SOLID CORE WOOD DOORS.

COORDINATE WITH FINISH PLANS FOR FINAL FINISH SELECTIONS

ALL INTERIOR TRIM TO BE POPLAR OR APPROVED EQUAL COORDINATE WITH INTERIOR ELEVATIONS AND MILLWORK DRAWINGS FOR SELECT TYPES AND PROFILES

ALL MILLWORK TO BE CUSTOM FOR DRAWINGS

REFER TO SPECIFICATIONS IF APPROPRIATE FOR COORDINATION OF WORK BETWEEN TRADES

FLOOR TRUSS CRITERIA

TCL= 25 PSF

TDL= 10 PSF

BCDL= 10 PSF

NET UDL= 10 PSF

ATTIC LL= 40 PSF

ATTIC UDL= 10 PSF

USE 16" SPAN SIMPSON SWD15600 SCREWS AT TRUSS BRG

WOOD HEADERS (U.N.O.)

OPENING HEADERS NON BEARING BEARING

UP TO 2' X 6' 1 JACK 1 KING

4' X 6' 1 JACK 1 KING

6' X 6' 2 JACK 2 KING

8' X 6' 2 JACK 2 KING

10' X 6' 2 JACK 2 KING

12' X 6' 2 JACK 2 KING

14' X 6' 2 JACK 2 KING

16' X 6' 2 JACK 2 KING

18' X 6' 2 JACK 2 KING

20' X 6' 2 JACK 2 KING

22' X 6' 2 JACK 2 KING

24' X 6' 2 JACK 2 KING

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280' X 6' 2 JACK 2 KING

282' X 6' 2 JACK 2 KING

284' X 6' 2 JACK 2 KING

286' X 6' 2 JACK 2 KING

288' X 6' 2 JACK 2 KING

290' X 6' 2 JACK 2 KING

292' X 6' 2 JACK 2 KING

MATERIAL SCHEDULE

ALL MATERIAL ASSEMBLIES LISTED BELOW TO OCCUR OVER THE FOLLOWING UNLESS NOTED OTHERWISE.

Q1 WEATHER BARRE

Q1 1/2" EXTERIOR GRADE OSB SHEATHING

Q1 2X STUD

STONE VENEER (ST-1)

STONE SILL

SIDING (S-1)

HORIZONTAL SIDING

SIDING (S-2)

4" CHIMNEY TIES, BRICK TO BE PAINTED TO MATCH EXISTING

ASPHALT SHINGLE ROOF (R-1)

DO NOT USE 1/2" EXTERIOR GRADE OSB SHEATHING

Q1 1/2" EXTERIOR GRADE OSB SHEATHING

ICE GUARD SHOULD BE INSTALLED AT ALL EAVES AND VALLEYS, UP 72" AND WRAPPED OVER THE FACE OF ALL FASCIA

GUTTERS

6" HALF ROUND W/ ROUND DOWNSPOUTS

EXTERIOR ELEVATION GENERAL NOTES

ROOF SOFFITS TO BE AC PLYWOOD WITH A CONTINUOUS LINEAR VENT UNLESS NOTED OTHERWISE.

ALL FIBER CEMENT EXTERIOR TRIM TO BE AZEK OR KORAL, PAINTED, OR APPROVED EQUAL.

ALL EXPOSED WOOD ELEMENTS AND TONGUE AND GROOVE CEILINGS TO BE DOUG FIR, STAINED AND SEALER, COORDINATE FINAL COLOR WITH ARCHITECT AND OWNER.

ALL EXPOSED WOOD ELEMENTS TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION TO ENSURE AESTHETIC EXPECTATIONS ARE MAINTAINED.

GUTTER PROFILES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING.

SAFETY GLAZING TO BE IN ACCORDANCE WITH THE 2019 RESIDENTIAL CODE OF OHO (SECTION R308)

PROJECT TEAM:

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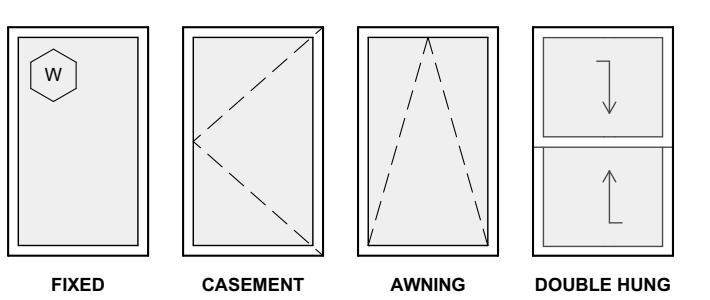
BASIS OF DESIGN:

ALL WINDOWS ARE TO BE PELLA RESERVE - TRADITIONAL, DOUBLE HUNG - OR APPROVED EQUAL.

WINDOW HEAD GIVEN ABOVE FIRST AND SECOND FLOOR, CONFIRM WINDOW QUANTITIES WITH ELEVATIONS.

** WINDOW COUNT PROVIDED FOR GENERAL REFERENCE AND VERIFICATION. DO NOT COUNT FOR TO VERIFY TOTAL NUMBER OF WINDOWS WITH DOCUMENTS.

WINDOW LEGEND



BASIS OF DESIGN:

ALL WINDOWS ARE TO BE PELLA RESERVE - TRADITIONAL, DOUBLE HUNG - OR APPROVED EQUAL.

WINDOW HEAD GIVEN ABOVE FIRST AND SECOND FLOOR, CONFIRM WINDOW QUANTITIES WITH ELEVATIONS.

** WINDOW COUNT PROVIDED FOR GENERAL REFERENCE AND VERIFICATION. DO NOT COUNT FOR TO VERIFY TOTAL NUMBER OF WINDOWS WITH DOCUMENTS.

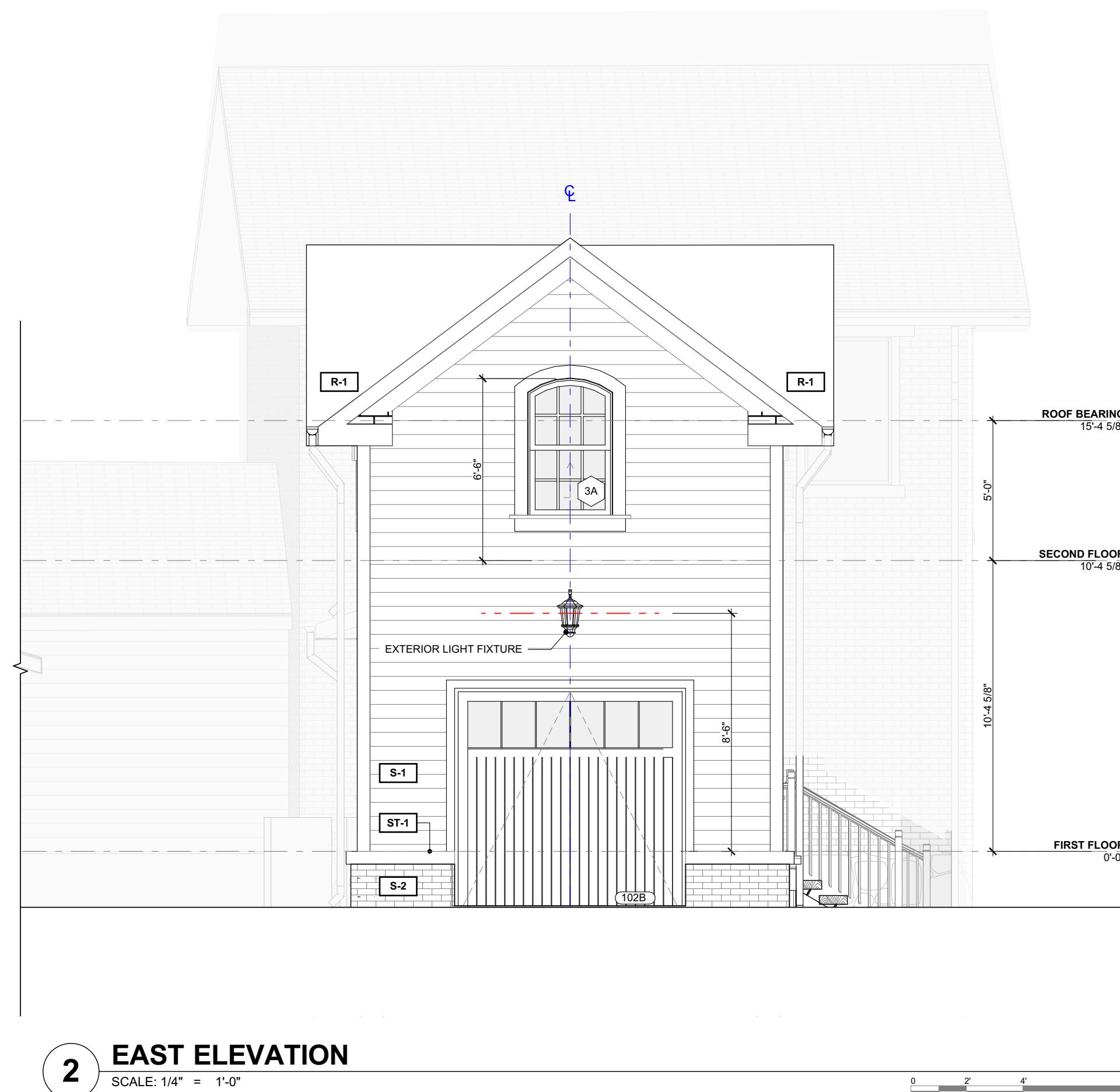
WINDOW SCHEDULE

ID	W x H	OPERATION	EGRESS	REMARKS
1A	3'0" x 5'4"	DOUBLE HUNG	—	—
2A	3'0" x 11'4"	FIXED	—	—
3A	3'0" x 5'4"	DOUBLE HUNG	—	ARCHED WINDOW
4A	2'4" x 4'10"	DOUBLE HUNG	—	—



1 NORTH ELEVATION

SCALE: 1/4" = 1'-0"



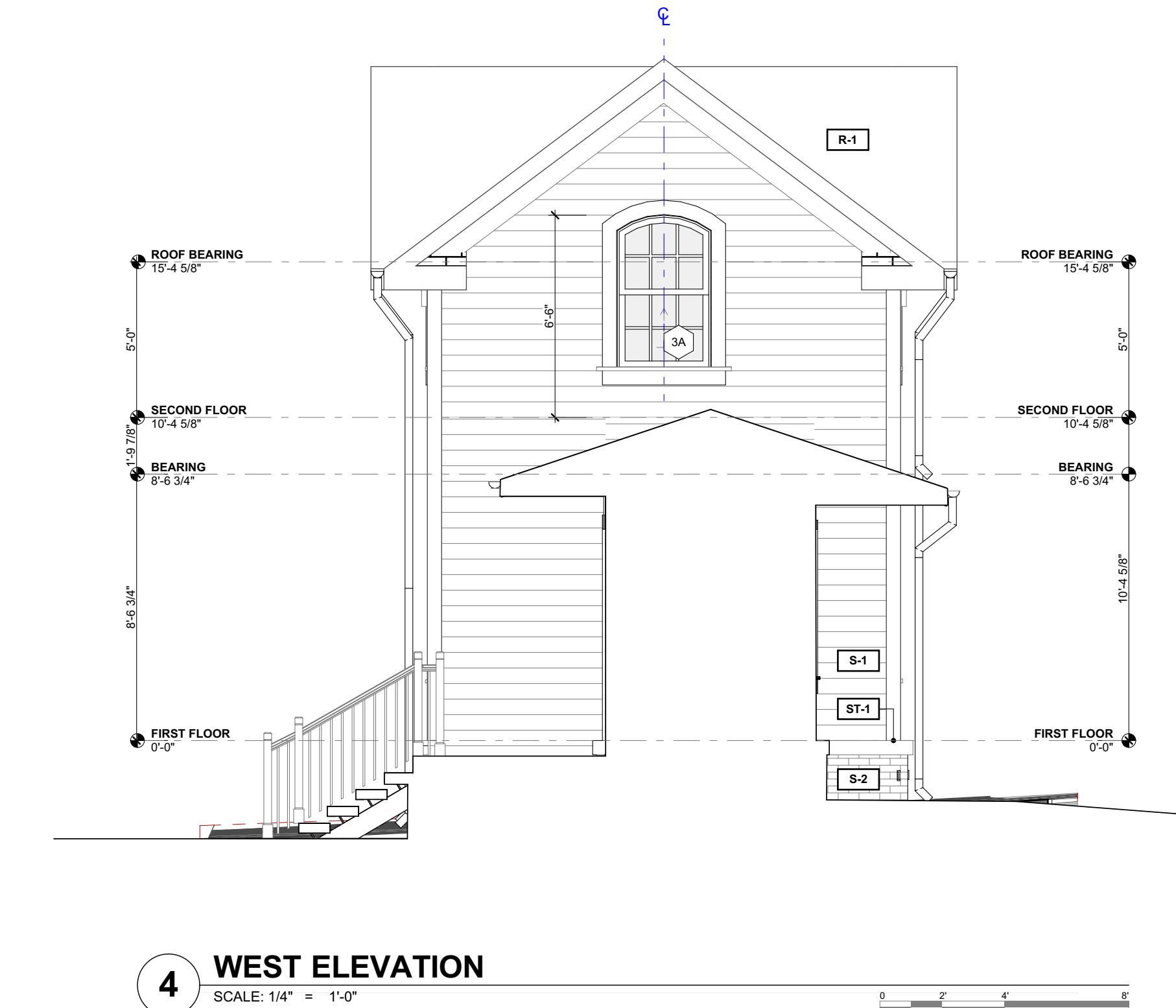
2 EAST ELEVATION

SCALE: 1/4" = 1'-0"



3 SOUTH ELEVATION

SCALE: 1/4" = 1'-0"



4 WEST ELEVATION

SCALE: 1/4" = 1'-0"

PROGRESS
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U.S. DEPARTMENT OF THE INTERIOR

INTERNATIONAL TECHNICAL ASSISTANCE PROGRAM

36 CFR Part 68, RIN 1024-AC24 - THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES, A RULE BY THE INTERIOR DEPARTMENT (PUBLICATION DATE: JULY 12, 1995, EFFECTIVE DATE: August 11, 1995)

“(68.3, (2)) THE HISTORIC CHARACTER OF A PROPERTY WILL BE RETAINED AND PRESERVED. THE REMOVAL OF DISTINCTIVE MATERIALS OR ALTERATION OF FEATURES, SPACES AND SPATIAL RELATIONSHIPS THAT CHARACTERIZE A PROPERTY WILL BE AVOIDED.

“(68.3, (9)) NEW ADDITIONS, EXTERIOR ALTERATIONS OR RELATED NEW CONSTRUCTION WILL NOT DESTROY HISTORIC MATERIALS, FEATURES AND SPATIAL RELATIONSHIPS THAT CHARACTERIZE THE PROPERTY. THE NEW WORK WILL BE DIFFERENTIATED FROM THE OLD AND WILL BE COMPATIBLE WITH THE HISTORIC MATERIALS, FEATURES, SIZE, SCALE AND PROPORTION, AND MASSING TO PROTECT THE INTEGRITY OF THE PROPERTY AND ITS ENVIRONMENT.

“(68.3, (10)) NEW ADDITIONS AND ADJACENT OR RELATED NEW CONSTRUCTION WILL BE UNDERTAKEN IN SUCH A MANNER THAT, IF REMOVED IN THE FUTURE, THE ESSENTIAL FORM AND INTEGRITY OF THE HISTORIC PROPERTY AND ITS ENVIRONMENT WOULD BE UNIMPAIRED.

THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES WITH GUIDELINES FOR PRESERVING, REHABILITATING, RESTORING, & RECONSTRUCTION HISTORIC BUILDINGS

(2017 REVISION OF THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES WITH GUIDELINES FOR PRESERVING, REHABILITATING, RESTORING & RECONSTRUCTING HISTORIC BUILDINGS (1995):

“THE REHABILITATION GUIDELINES EMPHASIZE THAT NEW ADDITIONS SHOULD BE CONSIDERED ONLY AFTER IT IS DETERMINED THAT MEETING SPECIFIC NEW NEEDS CANNOT BE ACHIEVED BY ALTERING NON-CHARACTER-DEFINING INTERIOR SPACES. IF THE USE CANNOT BE ACCOMMODATED IN THIS WAY, THEN AN ATTACHED EXTERIOR ADDITION MAY BE CONSIDERED. NEW ADDITIONS SHOULD BE DESIGNED AND CONSTRUCTED SO THAT THE CHARACTER-DEFINING FEATURES OF THE HISTORIC BUILDING, ITS SITE, AND SETTING ARE NOT NEGATIVELY IMPACTED. GENERALLY, A NEW ADDITION SHOULD BE SUBORDINATE TO THE HISTORIC BUILDING. A NEW ADDITION SHOULD BE COMPATIBLE, BUT DIFFERENTIATED ENOUGH SO THAT IT IS NOT CONFUSED AS HISTORIC OR ORIGINAL TO THE BUILDING. THE SAME GUIDANCE APPLIES TO NEW CONSTRUCTION SO THAT IT DOES NOT NEGATIVELY IMPACT THE HISTORIC CHARACTER OF THE BUILDING OR ITS SITE” (PG 79).

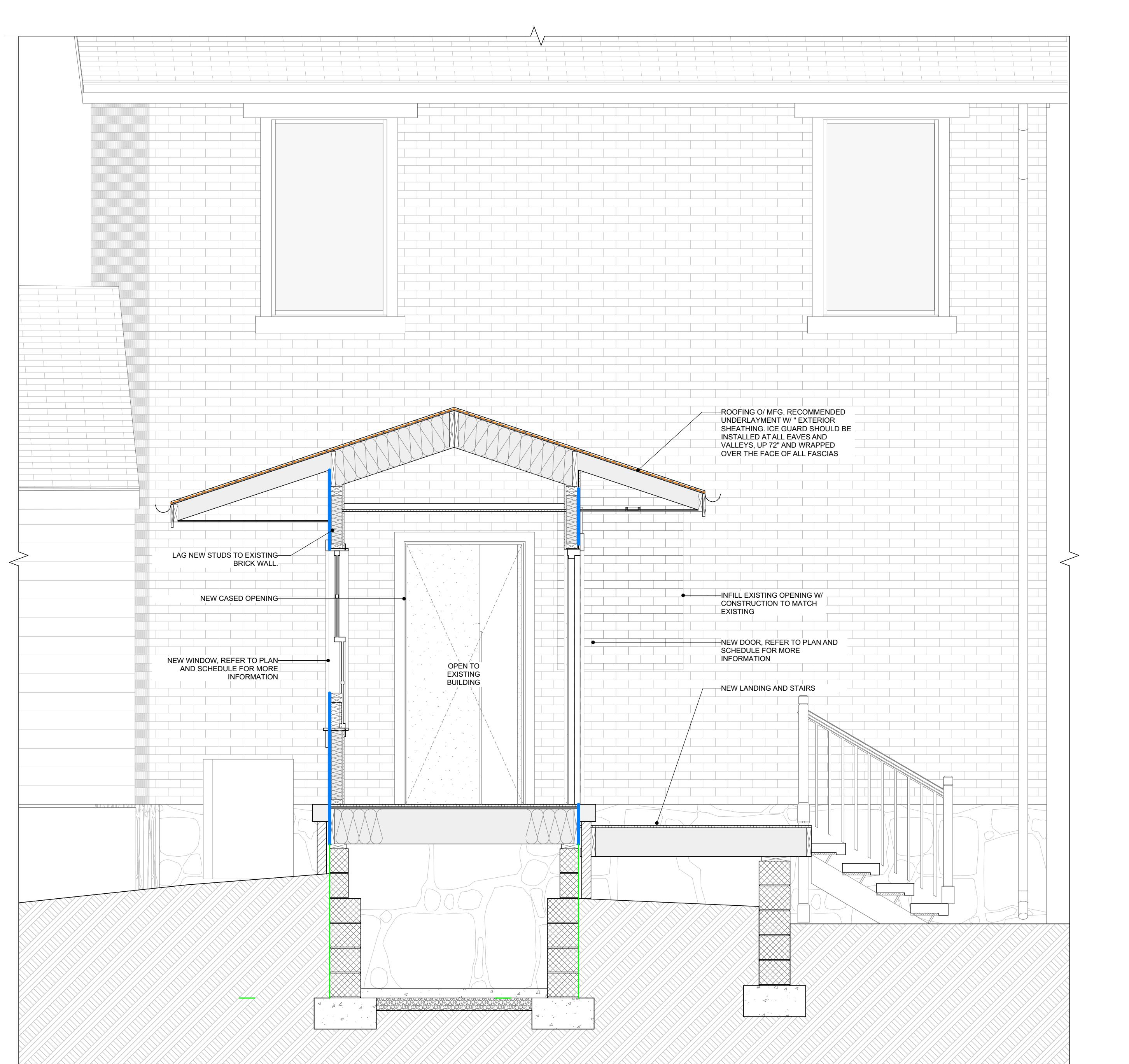
“LIMITING ANY NEW EXCAVATIONS NEXT TO HISTORIC FOUNDATIONS TO AVOID UNDERMINING THE STRUCTURAL STABILITY OF THE BUILDING OR ADJACENT HISTORIC BUILDINGS. THE AREA NEXT TO THE BUILDING FOUNDATION SHOULD BE INVESTIGATED FIRST TO ASCERTAIN POTENTIAL DAMAGE TO SITE FEATURES OR ARCHEOLOGICAL RESOURCES” (PG 124).

“CREATING OPEN WORK AREAS, WHEN REQUIRED BY THE NEW USE, BY SELECTIVELY REMOVING WALLS ONLY IN SECONDARY SPACES, LESS SIGNIFICANT UPPER FLOORS, OR OTHER LESS-VISIBLE LOCATIONS TO PRESERVE PRIMARY PUBLIC SPACES AND CIRCULATION SYSTEMS” (PG 134).

“CONSTRUCTING A NEW ADDITION ON A SECONDARY OR NON-CHARACTERDEFINING ELEVATION AND LIMITING ITS SIZE AND SCALE IN RELATIONSHIP TO THE HISTORIC BUILDING” (PG 156).

“CONSTRUCTING A NEW ADDITION THAT RESULTS IN THE LEAST POSSIBLE LOSS OF HISTORIC MATERIALS SO THAT CHARACTER-DEFINING FEATURES ARE NOT OBSCURED, DAMAGED, OR DESTROYED” (PG 156).

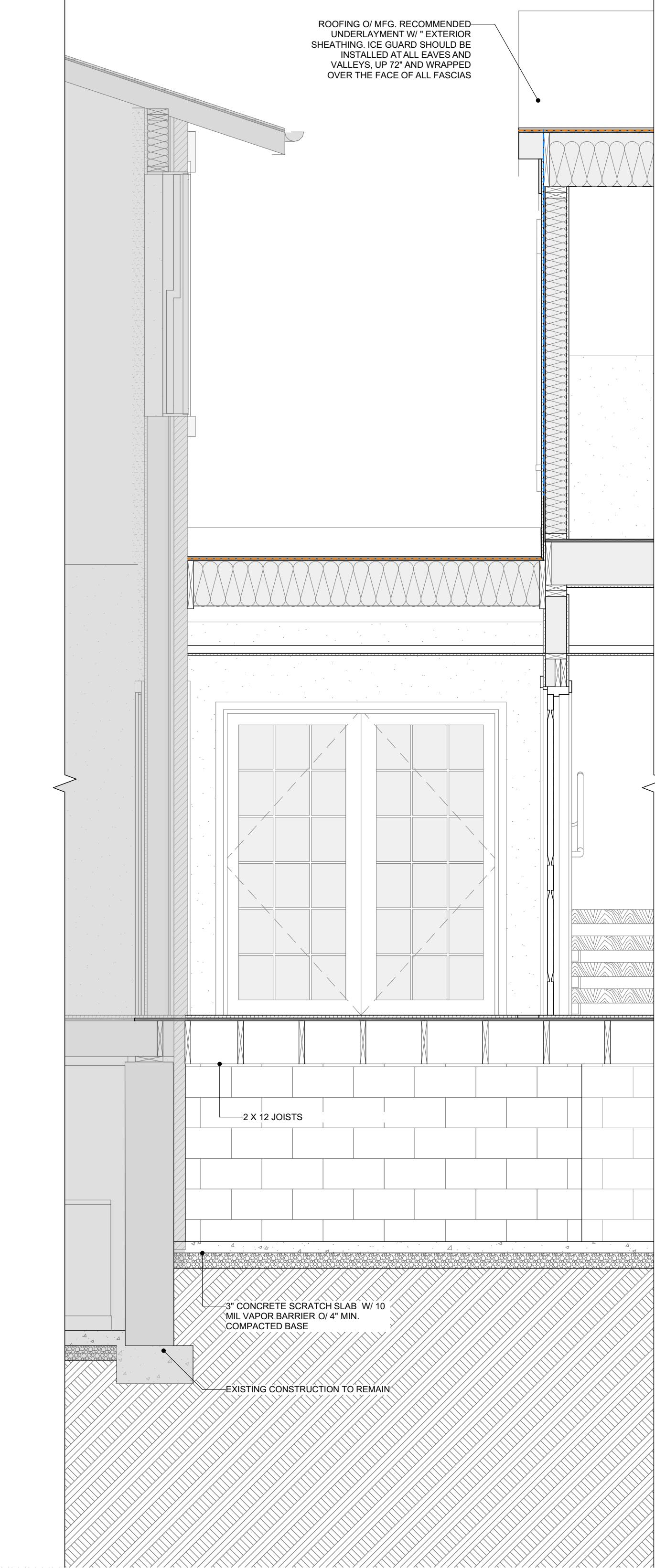
“INCORPORATING A SIMPLE, RECESSED, SMALL-SCALE HYPHEN, OR CONNECTION, TO PHYSICALLY AND VISUALLY SEPARATE THE ADDITION FROM THE HISTORIC BUILDING” (PG. 157).



1 BUILDING SECTION THROUGH ENTRY 100

SCALE: 1/2" = 1'-0"

0 1' 2' 3' 4'



2 BUILDING SECTION THROUGH ENTRY

SCALE: 1/2" = 1'-0"

0 1' 2' 3' 4'

VILLAGE DENTAL
41 E. MAIN STREET, HUDSON, OH 44236

PROJECT #: 2501
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BUILDING SECTIONS