

STORMWATER CONTROL MEASURE 'B' CONSTRUCTION SPECIFICATIONS

GENERAL NOTES

- PRIOR TO CONSTRUCTION, ANY DISCREPANCIES IN THE PLANS AND NOTES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
- PRIOR TO ANY CONSTRUCTION OR PLACEMENT OF ANY BACKFILL, THE ONSITE GEOTECHNICAL ENGINEER SHALL INSPECT THE EXCAVATION AREA FOR THE UNDERGROUND SCM WITHIN THIS AREA TO ASSESS WHETHER SUITABLE SOILS EXIST AT THE SUBGRADE LEVEL. IF THE CONTRACTOR CONSTRUCTS AND COVERS UP THE UNDERGROUND SCM PRIOR TO INSPECTION, THEN THIS AREA SHALL BE UNCOVERED AND TESTED (TO THE ENGINEER'S AND OWNER'S APPROVAL) AT THE CONTRACTOR'S EXPENSE.
- THE FACILITY SHALL NOT BE USED AS A TEMPORARY EROSION CONTROL DEVICE (I.E. SEDIMENT TRAP OR SEDIMENT BASIN) DURING CONSTRUCTION.
- PRIOR TO PLACING STORMFILTER CARTRIDGES WITHIN THE UNDERGROUND SYSTEM, THE CONTRACTOR SHALL REQUEST AN ONSITE MEETING WITH THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR TO ENSURE THE UPSTREAM DRAINAGE AREA IS COMPLETELY STABILIZED (I.E. GOOD VEGETATIVE COVER). IF THE CONTRACTOR DECIDES TO PLACE THE STORMFILTER CARTRIDGES PRIOR TO APPROVAL FROM THE DESIGN ENGINEER AND THE EROSION CONTROL INSPECTOR, THEN THE CONTRACTOR SHALL EXCAVATE/REPLACE, AS NECESSARY, THE COMPONENTS NEEDED FOR THE SYSTEM TO FUNCTION PROPERLY AT HIS / HER EXPENSE SHOULD THE STORMFILTER CARTRIDGES NOT FUNCTION PROPERLY (I.E. WILL NOT DRAIN DUE TO SEDIMENT DEPOSITION) DUE TO AN UNSTABILIZED UPSTREAM DRAINAGE AREA.
- ONCE CONSTRUCTED, THE STORMFILTER CARTRIDGES SHALL NOT RECEIVE STORMWATER RUNOFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE UNDERGROUND SYSTEM HAS BEEN COMPLETELY STABILIZED AND SITE CONSTRUCTION IS COMPLETE.
- ALL COMPONENTS OF THE UNDERGROUND SCM SYSTEM (STORMFILTER MANHOLE, CONCRETE VAULT, JOINT / RISER CONNECTIONS, ENDCAPS, ACCESS MANHOLES, ETC.) SHALL BE DESIGNED BY OTHERS. ANY VARIATIONS OR CHANGES MADE FROM THESE SPECIFICATIONS AND DRAWINGS DURING THE ORDERING AND/OR INSTALLATION OF ALL COMPONENTS MUST BE APPROVED BY THE DESIGN ENGINEER. THE STRUCTURAL DESIGN OF THE UNDERGROUND SCM, ALONG WITH ITS ASSUMPTIONS, IS ALSO BY OTHERS. THE JOHN R. McADAMS COMPANY, INC. AND ITS EMPLOYEES ASSUME NO LIABILITY WITH RESPECT TO ANY ASPECT OF THE STRUCTURAL DESIGN FOR THE UNDERGROUND SCM SYSTEM.
- ALL PIPE / RISER CONNECTIONS AND JOINTS ASSOCIATED WITH THE UNDERGROUND SCM SYSTEM SHALL BE WATER TIGHT. THE MECHANISM FOR ACHIEVING THIS SHALL BE SUBMITTED TO THE DESIGN ENGINEER FOR REVIEW.
- THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM VARIOUS PARTS OF THE UNDERGROUND SCM SYSTEM SITE. IT IS ANTICIPATED THAT PUMPING WILL BE NECESSARY IN THE EXCAVATION AREAS. DURING PLACEMENT OF FILL WITHIN THIS AREA (OR OTHER AREAS AS NECESSARY), THE CONTRACTOR SHALL KEEP THE WATER LEVEL BELOW THE BOTTOM OF THE EXCAVATION. THE MANNER IN WHICH THE WATER IS REMOVED SHALL BE SUCH THAT THE EXCAVATION BOTTOM AND SIDE SLOPES ARE STABLE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADHERE TO ALL CURRENT OSHA REGULATIONS FOR CONFINED SPACE ENTRY AND PROVIDE SUCH DURING ENGINEER WALK-THROUGH/INSPECTION.
- ALL PIPE PENETRATIONS THROUGH A CONCRETE STRUCTURE (I.E. STORMFILTER CARTRIDGE / DETENTION SYSTEM, STORM DRAINAGE MANHOLES, ETC.) SHALL BE MADE WATERTIGHT USING NON-SHRINK CEMENTITIOUS GROUT.
- EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

STORMWATER MANAGEMENT SYSTEM MATERIAL SPECIFICATIONS

- THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM IS TO BE DESIGNED BY OTHERS. ANY CHANGES TO THE PLANS SHALL BE PROVIDED TO THE DESIGN ENGINEER FOR REVIEW. PRIOR TO INSTALLATION, SHOP DRAWINGS OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE PROVIDED TO THE DESIGN ENGINEER AND TO THE TOWN OF CHAPEL HILL FOR REVIEW.
- FILTER CARTRIDGES SHALL BE CONTECH STORMFILTERS WITH PHOSPHOSORB MEDIA. INSTALLATION OF THE STORMWATER DEVICE SHALL BE PER THE MANUFACTURER'S INSTALLATION GUIDELINES AND SPECIFICATIONS.
- ACCESS RISERS SHALL BE INSTALLED PER STRUCTURAL SPECIFICATIONS. ACCESS STEPS / LADDERS SHALL BE ATTACHED TO THE RISERS TO ALLOW FOR ACCESS INTO THE STORMWATER MANAGEMENT SYSTEM.
- THE 24" DIP OUTLET BARREL OF THE DETENTION SYSTEM SHALL BE CLASS 350 DIP, MEETING THE REQUIREMENTS OF ASTM A716. THE PIPE JOINTS SHALL BE LOCKING JOINTS PER ANSI/AWWA C110/A21.10 OR ANSI/AWWA C153/A21.53 STANDARDS.
- THE CONTRACTOR SHALL INSTALL THE STORMFILTER SYSTEM PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR TO PROVIDE A LETTER FROM MATERIAL SUPPLIER(S) STATING MATERIALS MEET THE SPECIFIED STANDARDS PRIOR TO INSTALLATION.
- COVER AND REVIEW OF SITE CONDITIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE SYSTEM TO BE THE RESPONSIBILITY OF THE MANUFACTURER.

STATEMENT OF RESPONSIBILITY

- ALL REQUIRED MAINTENANCE AND INSPECTIONS OF THIS FACILITY SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER, PER THE EXECUTED OPERATION AND MAINTENANCE AGREEMENT FOR THIS FACILITY.

FOUNDATION NOTES

- ONCE THE EXCAVATION IS COMPLETE AND PRIOR TO INSTALLATION OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM, THE ONSITE GEOTECHNICAL ENGINEER SHALL VERIFY THE BEARING CAPACITY OF THE UNDERLYING SOILS TO SERVE AS A FOUNDATION FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. IF THE ONSITE GEOTECHNICAL ENGINEER DEEMS THE FOUNDATION SOILS AS UNSUITABLE, THEN THE UNSUITABLE MATERIAL SHOULD BE REMOVED DOWN TO A SUITABLE DEPTH AND THEN BUILT BACK UP TO THE CORRECT ELEVATION WITH A COMPACTED BACKFILL MATERIAL THAT IS APPROVED BY THE ONSITE GEOTECHNICAL ENGINEER. THE APPROVED BACKFILL MATERIAL SHOULD HAVE A GRADATION THAT WILL NOT ALLOW THE MIGRATION OF FINES, WHICH COULD CAUSE SETTLEMENT OF THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM. IF NECESSARY, A GEOTEXTILE FABRIC CAN BE USED TO SEPARATE THE UNDERLYING SOILS AND THE BACKFILL MATERIAL. THIS GEOTEXTILE FABRIC (IF USED) IS TO BE SPECIFIED BY THE ONSITE GEOTECHNICAL ENGINEER.
- PLEASE NOTE THAT IF THE CONTRACTOR CONSTRUCTS AND COVERS UP THE EXCAVATION FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM PRIOR TO INSPECTION, THEN THIS AREA SHALL BE UNCOVERED AND TESTED (TO THE ENGINEER'S AND OWNER'S APPROVAL) AT THE CONTRACTOR'S EXPENSE.
- THE FOUNDATION SUBGRADE SHALL BE GRADED TO A UNIFORM OR SLIGHTLY SLOPING GRADE PRIOR TO PLACEMENT OF THE BEDDING MATERIAL. IF THE FOUNDATION SUBGRADE WILL BE EXPOSED FOR AN EXTENDED PERIOD OF TIME DURING CONSTRUCTION, THEN IT SHOULD BE GRADED TO A SLIGHT SLOPE SUCH THAT SATURATION OF THE SUBGRADE DOES NOT OCCUR.
- THE BEDDING MATERIAL FOR THE UNDERGROUND STORMWATER MANAGEMENT SYSTEM SHALL BE SPECIFIED BY THE ON-SITE GEOTECHNICAL ENGINEER. TYPICALLY, A WELL-GRADED GRANULAR MATERIAL WILL BE USED FOR THE BEDDING. PLEASE NOTE THAT IF CONSTRUCTION EQUIPMENT WILL BE OPERATING FOR AN EXTENDED PERIOD OF TIME ON THE BEDDING, THEN THE APPROPRIATE MEASURES (E.G. ENGINEERED FABRIC, STIFF GEOGRID, ETC.) SHALL BE TAKEN TO ENSURE THE INTEGRITY OF THE BEDDING IS NOT COMPROMISED.
- THE CONTRACTOR SHALL FURNISH, INSTALL, OPERATE, AND MAINTAIN ANY PUMPING EQUIPMENT, ETC. NEEDED FOR REMOVAL OF WATER FROM THE EXCAVATION. IT IS BEST TO BEGIN THE CONSTRUCTION OF THE DETENTION SYSTEMS AT THE DOWNSTREAM END WITH THE OUTLET ALREADY CONSTRUCTED TO ALLOW A ROUTE FOR WATER TO ESCAPE.
- THE CONTRACTOR SHALL PROVIDE A FOUNDATION DRAIN FOR THE UNDERGROUND DETENTION SYSTEM DESIGNED BY OTHERS. THE UNDERDRAIN SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATION AND SHALL POSITIVELY DRAIN TO DOWNSTREAM STRUCTURE. THE ONSITE GEOTECHNICAL ENGINEER SHALL DETERMINE IF FOUNDATION DRAINS ARE NOT REQUIRED FOR THE UNDERGROUND SCM SYSTEM. THE DESIGN ENGINEER SHALL BE NOTIFIED FOLLOWING THIS DETERMINATION.

BEDDING NOTES

- THE EXCAVATION SUB GRADE MUST BE TRANSIT LEVEL.
- THE EXCAVATION PIT SHALL BE LINED (ON THE BOTTOM AND ALL FOUR SIDES) WITH A NON-WOVEN GEO-TEXTILE (GEOTEX 401 OR APPROVED EQUIVALENT). THE ONSITE GEOTECHNICAL ENGINEER SHALL APPROVE FABRIC FOR USE.
- THE SUBGRADE FOR THE DETENTION SYSTEM CAN BE A CONCRETE SLAB, OR CLEAN GRANULAR MATERIAL WITH A MAXIMUM AGGREGATE SIZE OF 3/4". THE BEDDING SHALL BE FREE FROM ROCK FORMATIONS, PROTRUDING STONES, FROZEN LUMPS, ROOTS, AND OTHER FOREIGN MATERIAL.
- PREPARE THE SUBGRADE PER THE ONSITE GEOTECHNICAL ENGINEER'S DIRECTION (APPROXIMATELY 5'-6" BELOW GRADE ON WHICH SLAB WILL SET). THE BEDDING MATERIAL SHOULD BE GRADED SUCH THAT A SMOOTH UNIFORM GRADE IS ESTABLISHED TO ALLOW FOR OPTIMUM PLACEMENT OF THE SAND FILTER.
- THE SUBGRADE MUST SUPPORT THE DETENTION SYSTEM WITHOUT DIFFERENTIAL SETTLEMENT BETWEEN PIECES.
- IF CONSTRUCTION EQUIPMENT WILL BE OPERATING FOR AN EXTENDED PERIOD OF TIME ON THE BEDDING, THEN THE APPROPRIATE MEASURES (E.G. STIFF GEOGRID, ETC.) SHALL BE TAKEN TO ENSURE THE INTEGRITY OF THE BEDDING IS NOT COMPROMISED.

BACKFILL MATERIAL NOTES

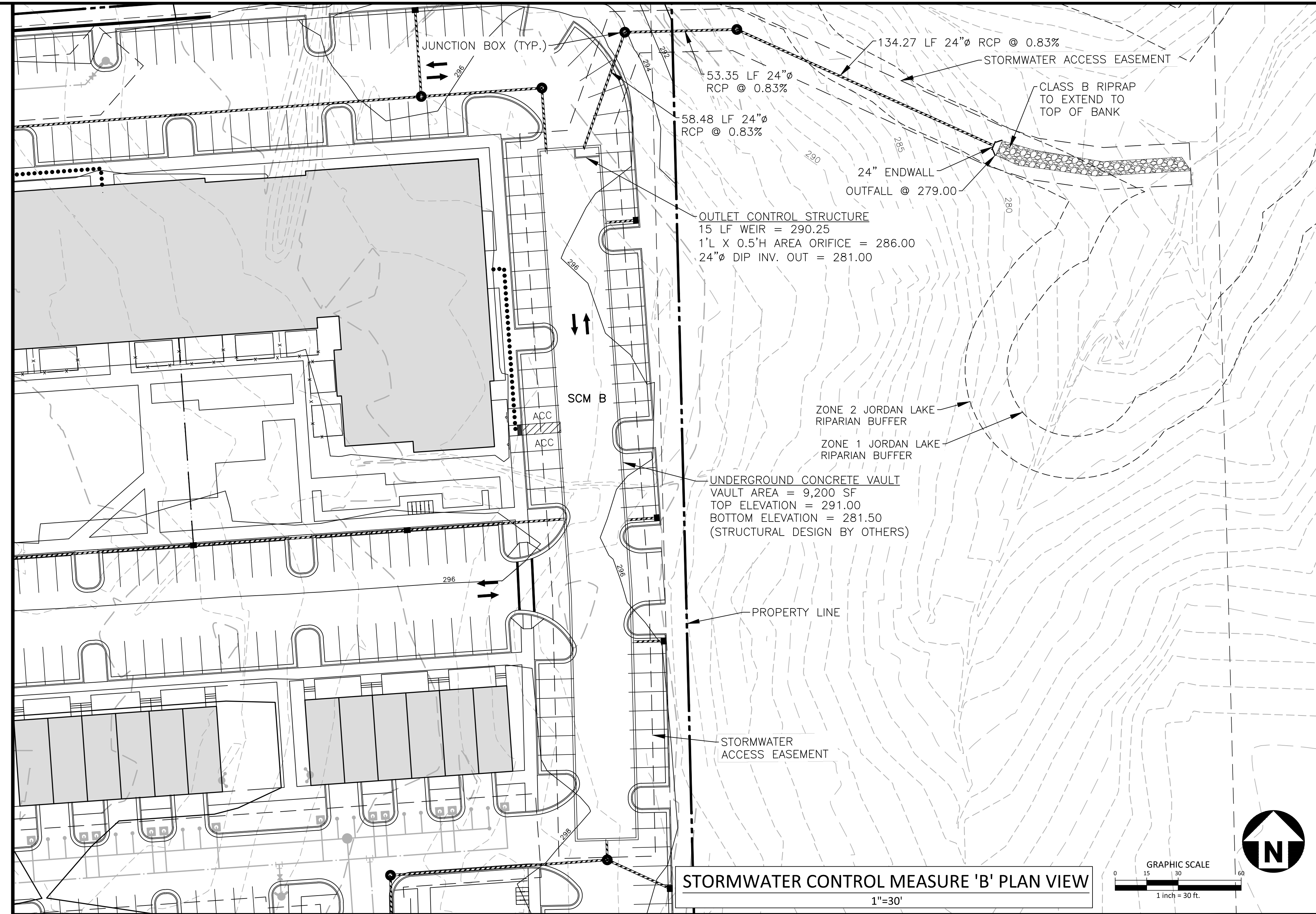
- THE ONSITE GEOTECHNICAL ENGINEER SHALL SPECIFY THE BACKFILL MATERIAL FOR THE STORMWATER MANAGEMENT SYSTEM.
- THE BACKFILL MATERIAL SHOULD BE FREE OF ROCKS, FROZEN LUMPS, AND OTHER FOREIGN MATTER THAT COULD CAUSE HARD SPOTS WITHIN THE BACKFILL MATERIAL, OR THAT COULD DECOMPOSE AND CREATE VOIDS.
- HIGHLY PLASTIC SILTS, HIGHLY PLASTIC CLAYS, ORGANIC CLAYS, AND PEATS SHOULD NOT BE USED AS A BACKFILL MATERIAL.
- THE BACKFILL MATERIAL SHOULD BE PLACED IN 6" LOOSE LIFTS AND COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D698). THE FILL SOILS SHALL BE COMPACTED AT A MOISTURE CONTENT WITHIN +/- TWO PERCENT OF ITS OPTIMUM MOISTURE CONTENT.
- ANY MATERIAL STOCKPILING ON TOP OF THE STORMWATER MANAGEMENT SYSTEM SHALL BE APPROVED BY THE STRUCTURAL DESIGN ENGINEER OR DETENTION SYSTEM MANUFACTURER.

UNDERGROUND VAULT CONSTRUCTION NOTES

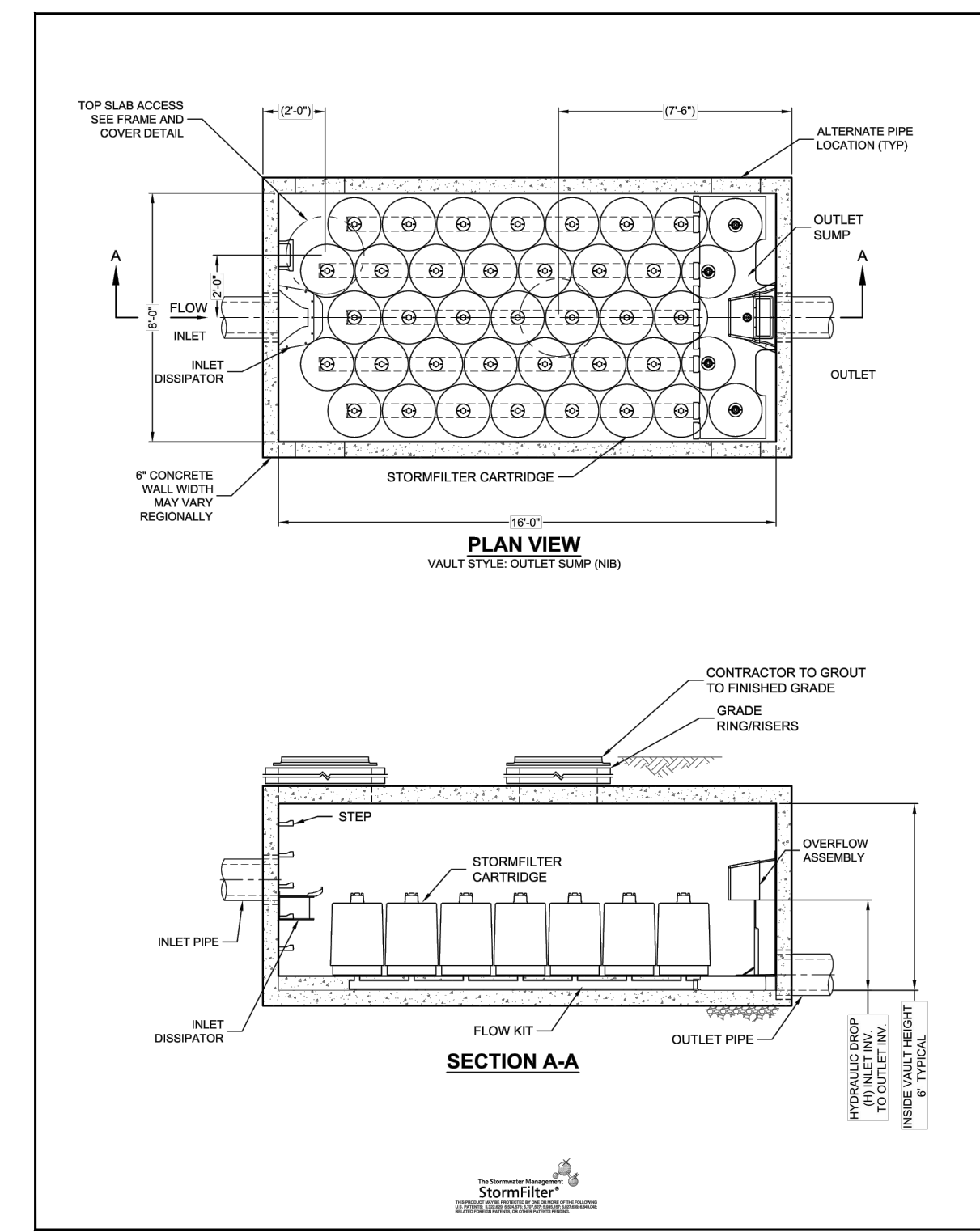
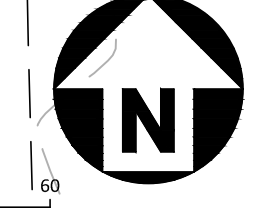
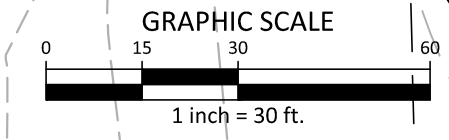
- UNDERGROUND VAULT CONFIGURATION IS TO BE DESIGNED AND PROVIDED BY OTHERS.
- ABSOLUTELY NO RUNOFF SHALL ENTER THE UNDERGROUND VAULT UNTIL ALL CONTRIBUTING DRAINAGE AREAS HAVE BEEN STABILIZED.
- MANHOLE ACCESS SHALL BE PROVIDED FOR THE UNDERGROUND VAULT. MANHOLES SHALL BE IN COMPLIANCE WITH TOWN OF CHAPEL HILL STANDARD DETAILS BUT SHALL BE A MINIMUM OF 24 INCHES IN DIAMETER TO COMPLY WITH OSHA CONFINED SPACE REQUIREMENTS (OR MINIMUMS OTHERWISE SPECIFIED AT TIME OF CONSTRUCTION). CONTRACTOR SHALL PROVIDE ACCESS LADDERS FOR ACCESS BELOW ALL MANHOLES. MANHOLE COVERS SHALL ALLOW FOR PROPER VENTILATION.

SYSTEM TESTING NOTES

- PRIOR TO PLACEMENT OF THE BACKFILL MATERIAL AND STORM FILTER CARTRIDGES, CONTRACTOR SHALL TEST FOR WATER TIGHTNESS. ENTRANCES AND EXITS SHALL BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER TO DEMONSTRATE WATER TIGHTNESS. WATER TIGHTNESS MEANS NO SIGNIFICANT FOR A PERIOD OF 24 HOURS. SIGNIFICANT LEAKAGE TO BE DETERMINED BY THE CERTIFYING ENGINEER. CONTRACTOR SHALL CALL AND SCHEDULE THE FIELD TESTING OF THE SYSTEM (WATER TIGHTNESS) WITH THE ENGINEER AT LEAST 2 WORKING DAYS PRIOR TO THE TEST. THE CONTRACTOR SHALL PROVIDE WRITTEN REPORTS TO THE ENGINEER VERIFYING THE WATER TIGHTNESS OF THE STORMWATER VAULT.



STORMWATER CONTROL MEASURE 'B' PLAN VIEW
1"=30'



STORMFILTER DESIGN NOTES

STORMFILTER TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE SELECTION AND THE NUMBER OF CARTRIDGES. THE STANDARD VAULT STYLE IS SHOWN WITH THE MAXIMUM NUMBER OF CARTRIDGES. SELECT OTHER OPTIONS INCLUDING METRIC AND INLET MANHOLE BY BUY OPTION OUTLET BAY (INLET BAY SHALL HAVE FULL HEIGHT BAYFILL WALL). FULL HEIGHT BAYFILL WALL. OUTLET BAY (INLET BAY) SHALL HAVE FULL HEIGHT BAYFILL WALL. CAPACITY IS 1.8 CFS. IF THE SITE CONDITIONS EXCEED 1.8 CFS AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.

CARTRIDGE SELECTION	27"	24"	21"	18"	15"	12"	9"	6"
RECOMMENDED HYDRAULIC DROPT (in)	2.0	1.5	1.0	0.75	0.5	0.375	0.25	0.125
SPECIFIC FLOW RATE (gpm/ft²)	2.0	1.875	1.75	1.625	1.5	1.375	1.25	1.125
CARTRIDGE FLOW RATE (gpm)	2.0	1.875	1.75	1.625	1.5	1.375	1.25	1.125

* 1.875 GPM SPECIFIC FLOW RATE IS APPROVED WITH PHOSPHOSORB® (PSORB) MEDIA ONLY.

SITE SPECIFIC DATA REQUIREMENTS	
STRUCTURE	-
WATER QUALITY FLOW RATE (cfs)	-
PEAK FLOW RATE (cfs)	-
RETURN PERIOD @ PEAK FLOW (yr)	-
CARTRIDGE HEIGHT (FT) (1" LOW DROPT (in))	-
NUMBER OF CARTRIDGES REQUIRED	-
CARTRIDGE FLOW RATE	-
MEDIA TYPE (PSORB, ETC.)	-
PIPE DATA	-
INLET PIPE #1	-
INLET PIPE #2	-
OUTLET PIPE	-
UPSTREAM RIM ELEVATION	-
DOWNSTREAM RIM ELEVATION	-
ANTI-FLOTATION BALLAST	-
WIDTH	-
HEIGHT	-

NOTES/SPECIAL REQUIREMENTS:
* PER ENGINEER OF RECORD

FRAME AND COVER (DIAMETER VARIES) N.T.S.

GENERAL NOTES:
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH (1) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR MORE SPECIFIC DRAWINGS WITH DETAILED VAULT DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE - www.conteches.com
4. STORMFILTER WATER QUALITY STRUCTURES SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET ABBOT H250 LOAD RATING, ASSUMING EARTH COVER OF 0' - 7' AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ABBOT H250 AND BE CAST WITH THE CORRECT LOAD.
6. FILTER CARTRIDGES SHALL BE MEDIA FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7 INCHES. FILTER MEDIA CONTACT THE SHALL BE AT LEAST 38 SECONDS.
7. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (GPM) DIVIDED BY THE FILTER CONTACT SURFACE AREA (SQ FT).
8. STORMFILTER STRUCTURE SHALL BE PRECAST CONFORMING TO ASTM C867 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES

A. ANY DRAINAGE BACKFILL DEPTH AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTS AND REACH CAPACITY TO LIFT AND SET THE STORMFILTER VAULT (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL VAULT SECTIONS AND ASSEMBLE VAULT.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH OUTLET PIPE INVERT WITH OUTLET BAY FLOOR.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION RELATED EROSION RUNOFF.

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BARBEE CHAPEL APARTMENTS
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DRAWINGS
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CHAPEL HILL, NC 27517



REVISIONS

NO.	DATE	REVISED PER
11.23.2022	REVISED PER 1ST C2P COMMENTS	
02.21.2023	REVISED PER 2ND C2P COMMENTS	

PLAN INFORMATION

PROJECT NO. TLA-22001
FILENAME TLA22001-SCMB
CHECKED BY MCT
DRAWN BY OVL
SCALE 1" = 30'
DATE 09.29.2022

SCM B PLAN VIEW
C9.01

SEE SHEET C0.00 FOR ALL PROJECT, SITE, GRADING, STORM DRAINAGE AND UTILITY NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT TOWN OF CHAPEL HILL AND NCDOT ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



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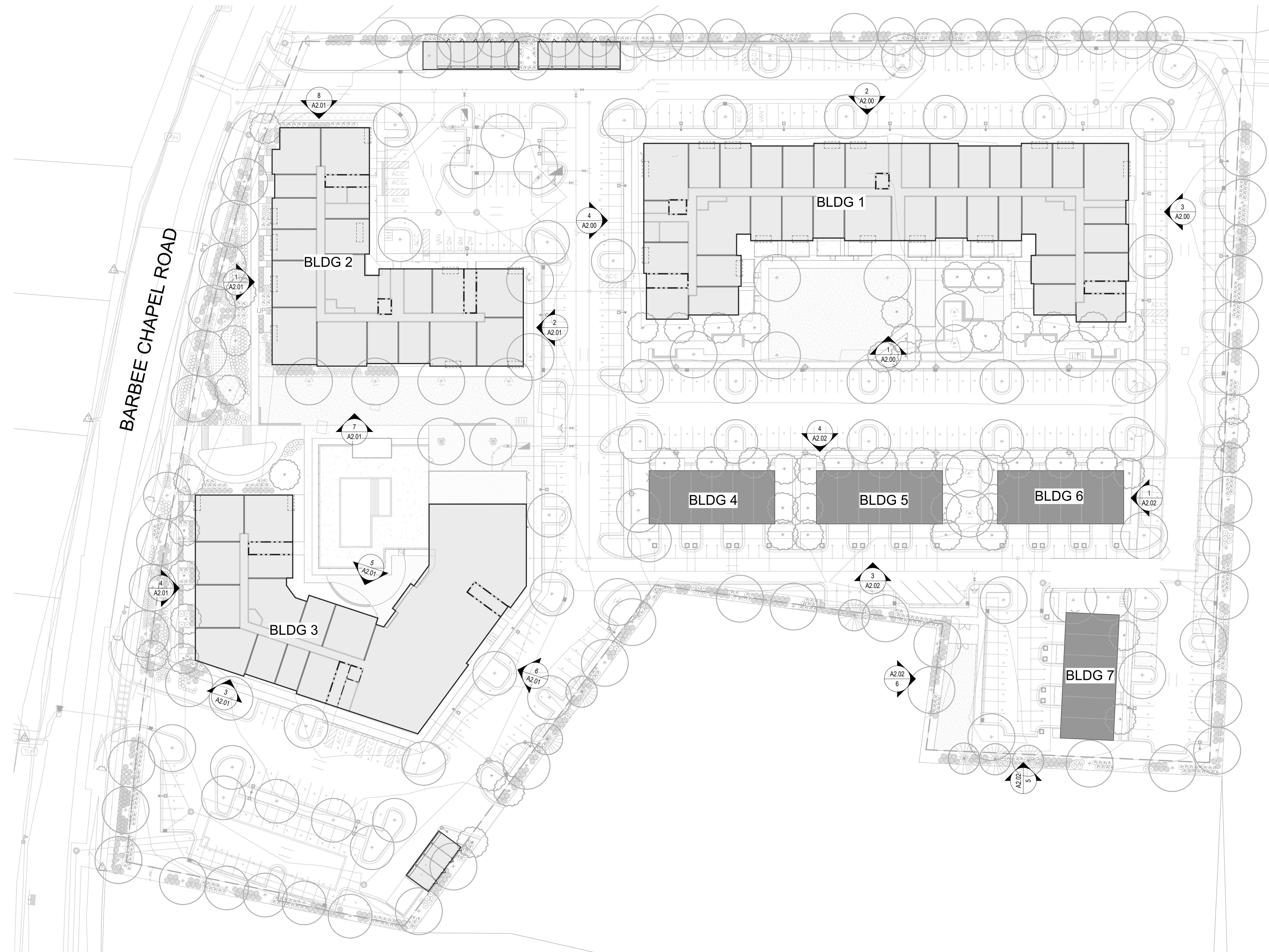
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REVISIONS

NO.	DATE	REVISION DESCRIPTION
1.	11/21/2022	REVISED PER 1ST CZP COMMENTS
2.	02/21/2023	REVISED PER 2ND CZP COMMENTS

PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09.29.2022



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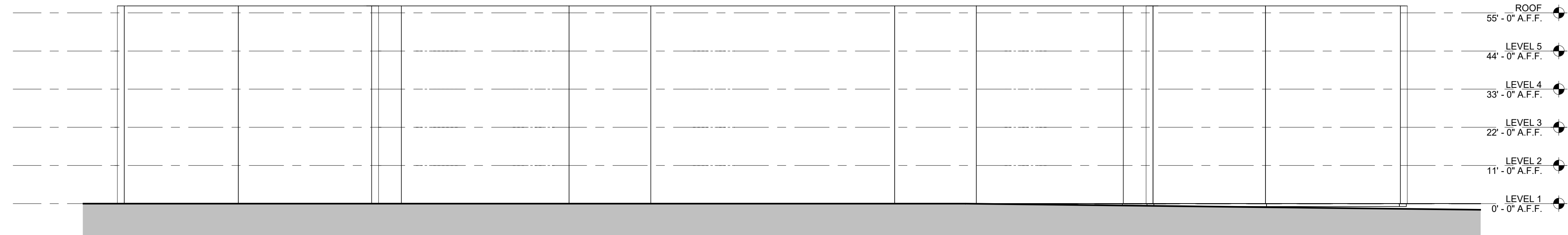
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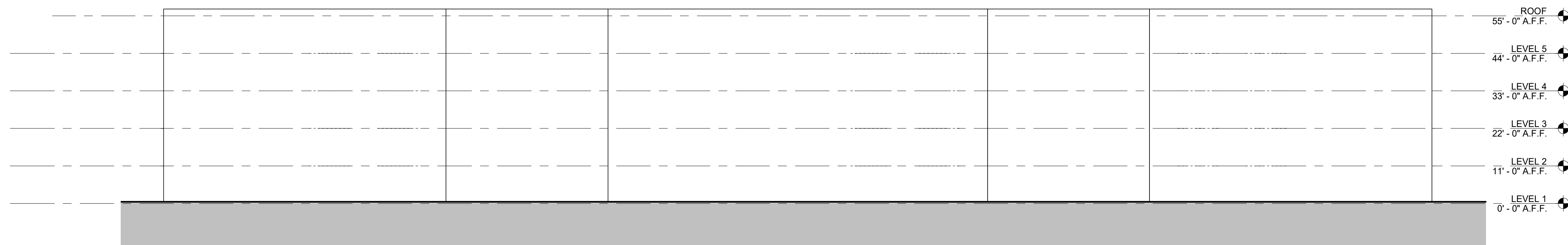
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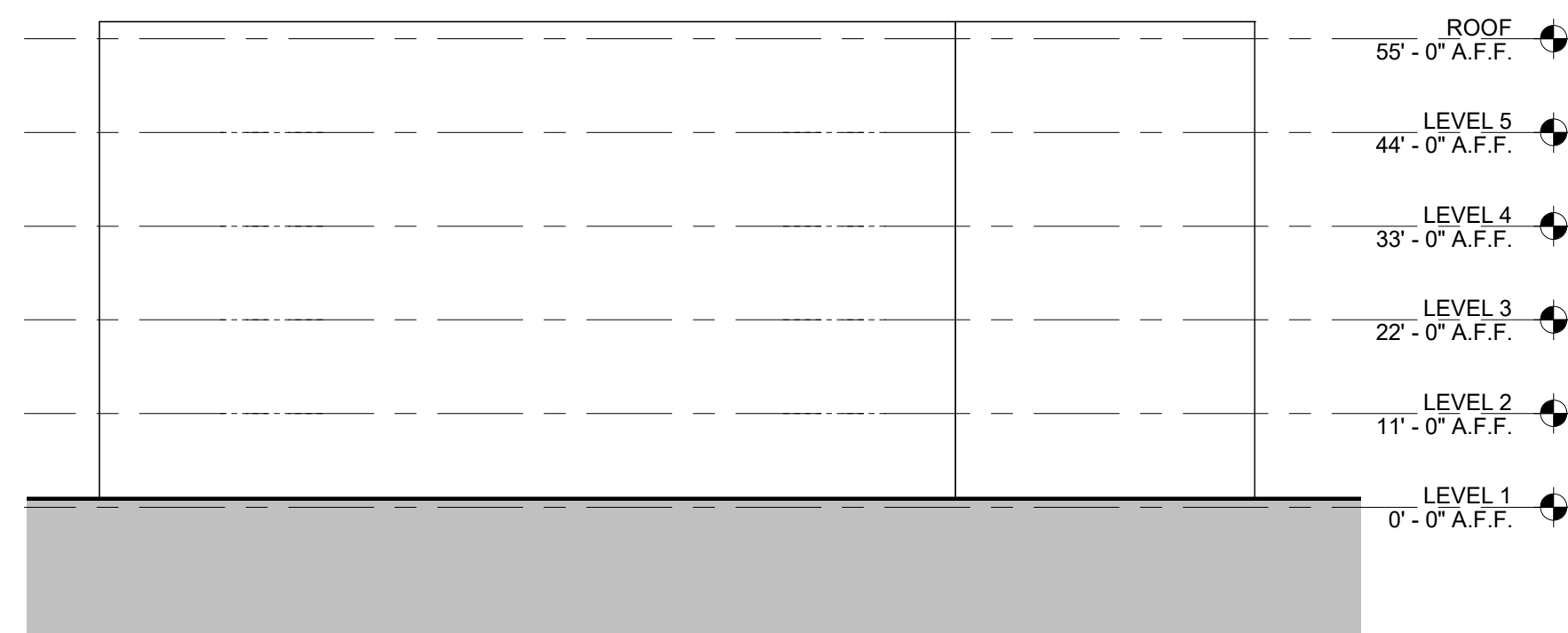
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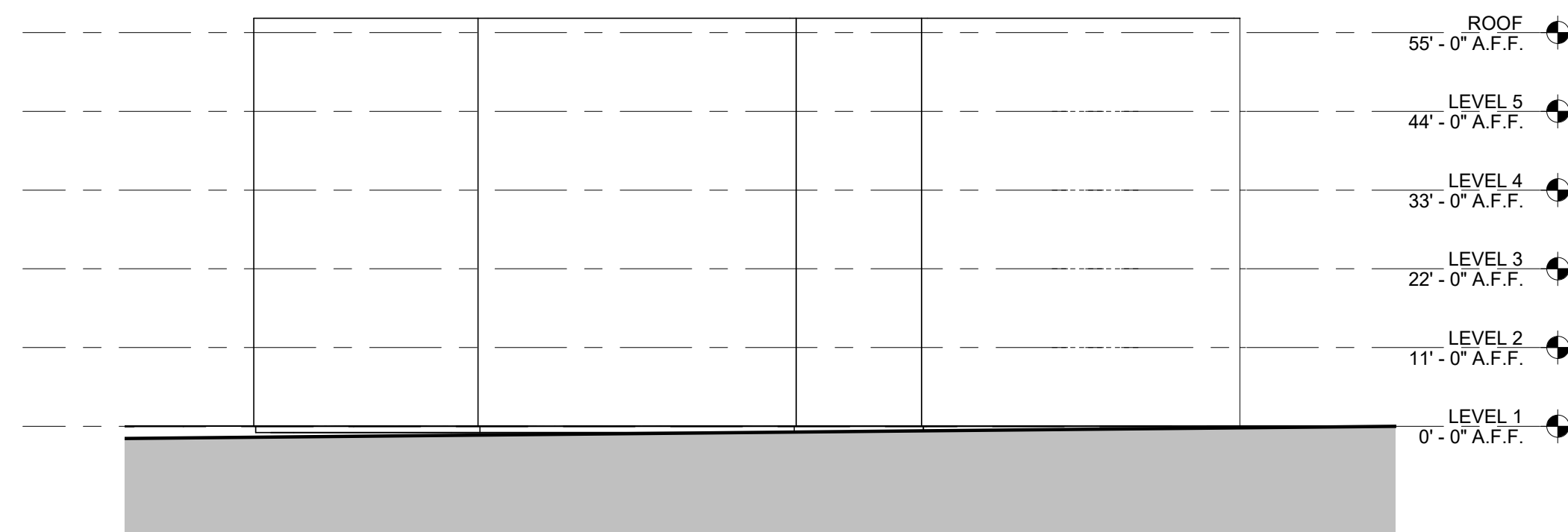
BLDG 1- SOUTH ELEV
1" = 20'-0" 1



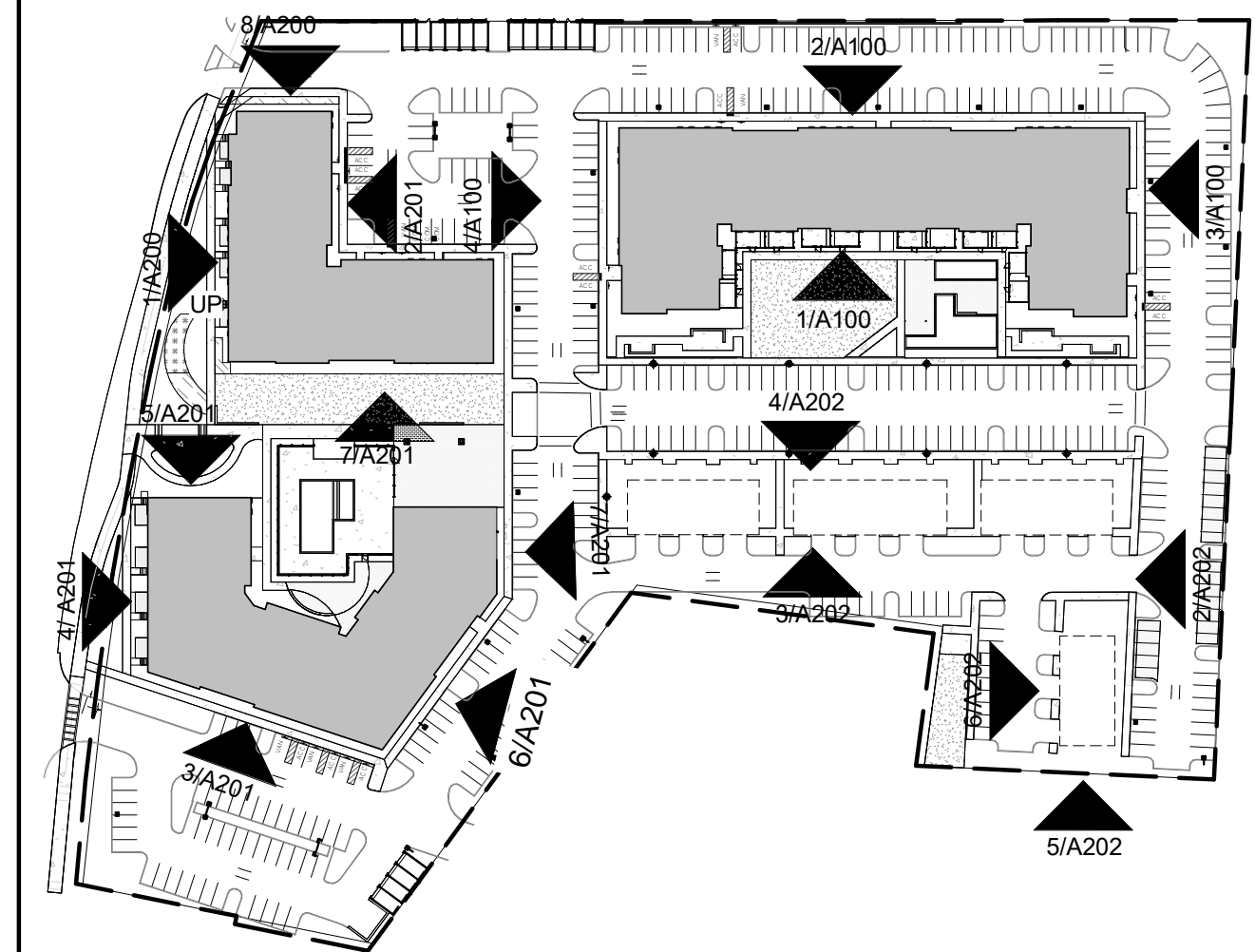
BLDG 1 - NORTH ELEV
1" = 20'-0" 2



BLDG 1- WEST ELEV
1" = 20'-0" 4



BLDG 1 - EAST ELEV
1" = 20'-0" 3



KEY PLAN
REF DRAWING: 11 / A2.00 SCALE: 1" = 15'06" 0

REVISIONS

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BUILDING ELEVATIONS

A2.00



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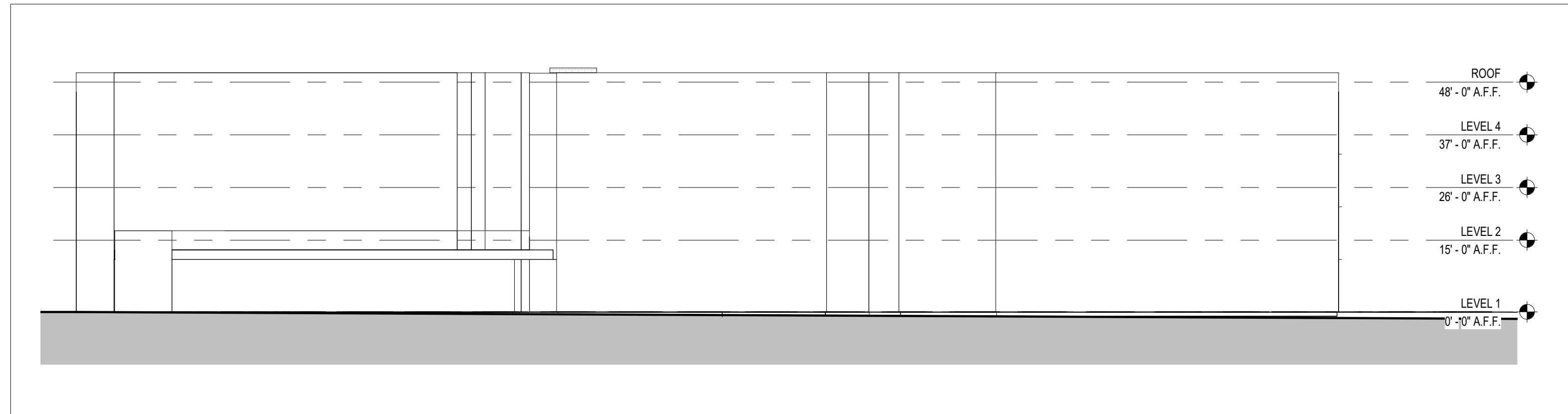
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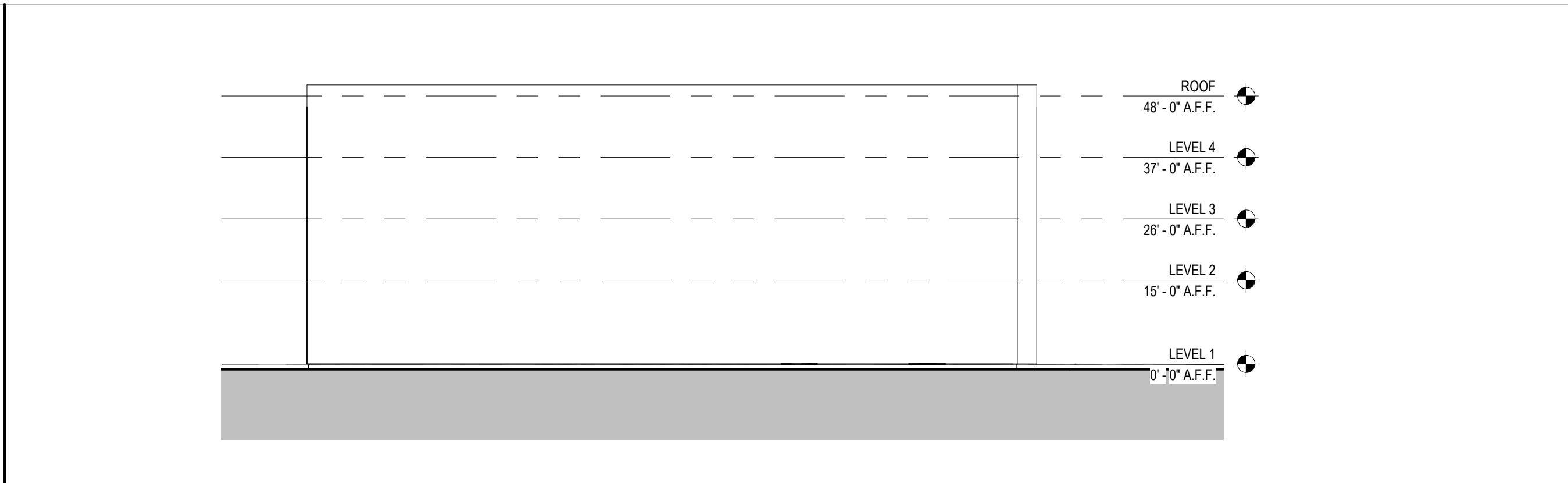
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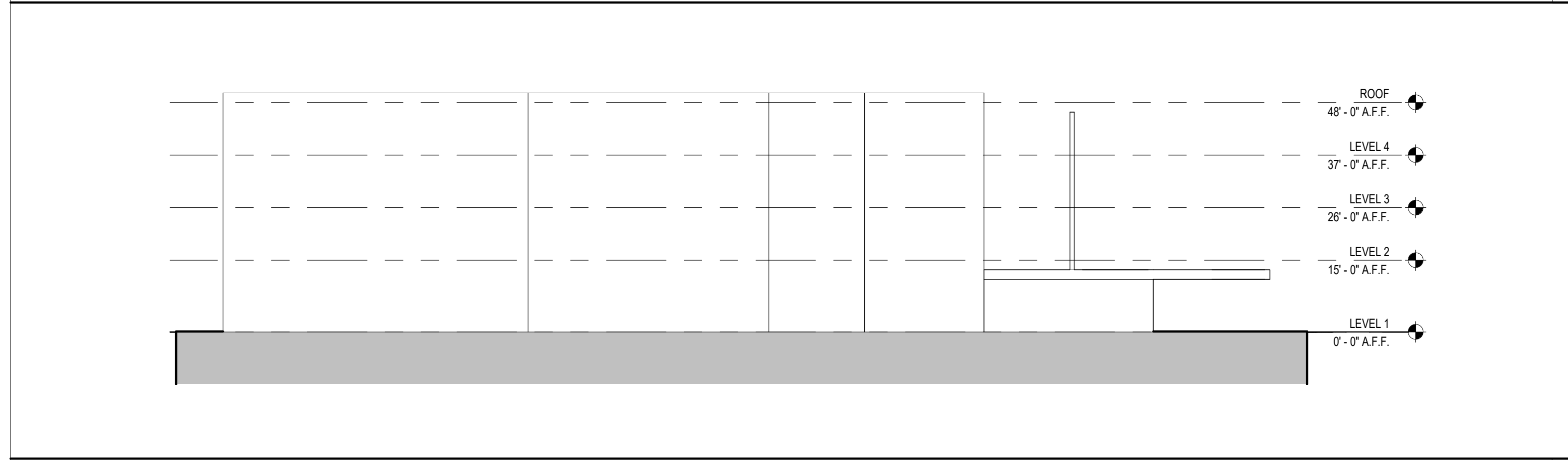
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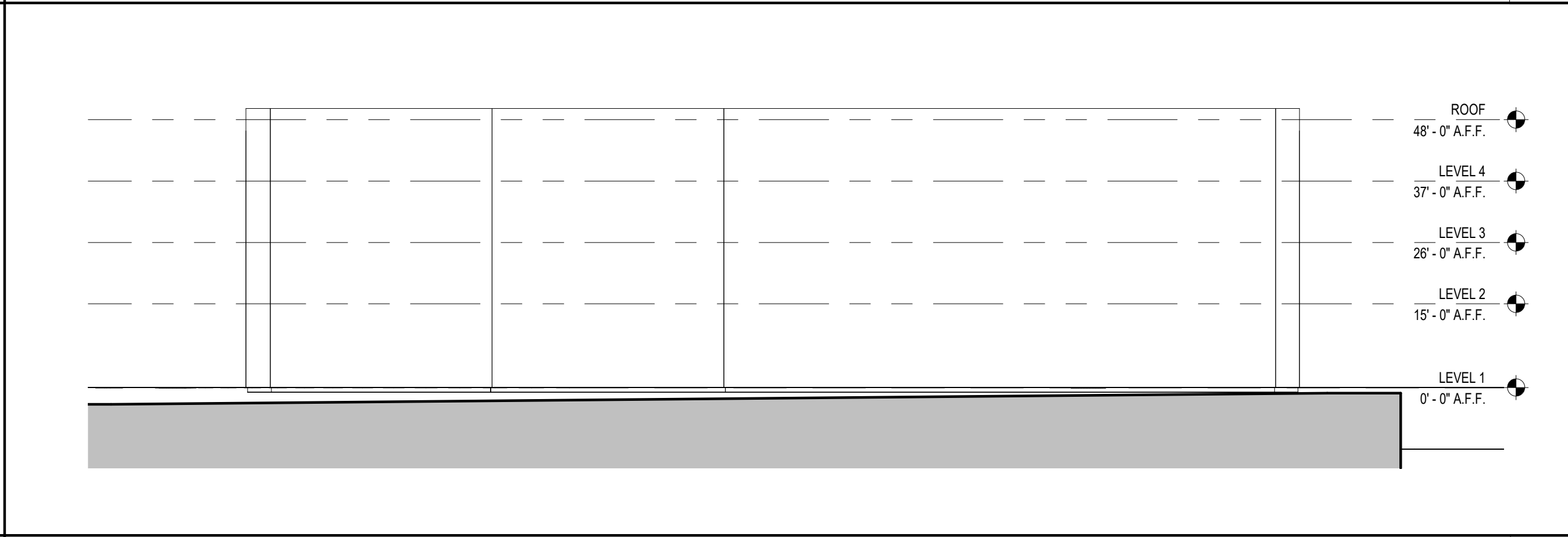
BLDG 3 - NORTH ELEV
 1" = 20'-0" 5



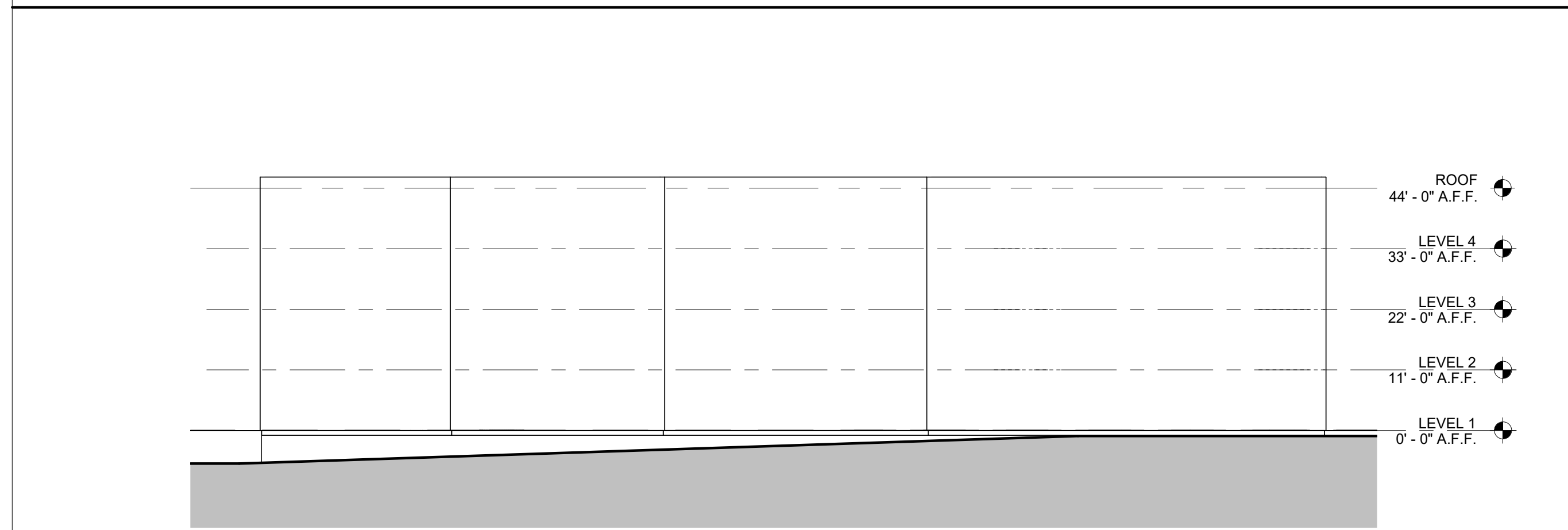
BLDG 3 - WEST ELEV
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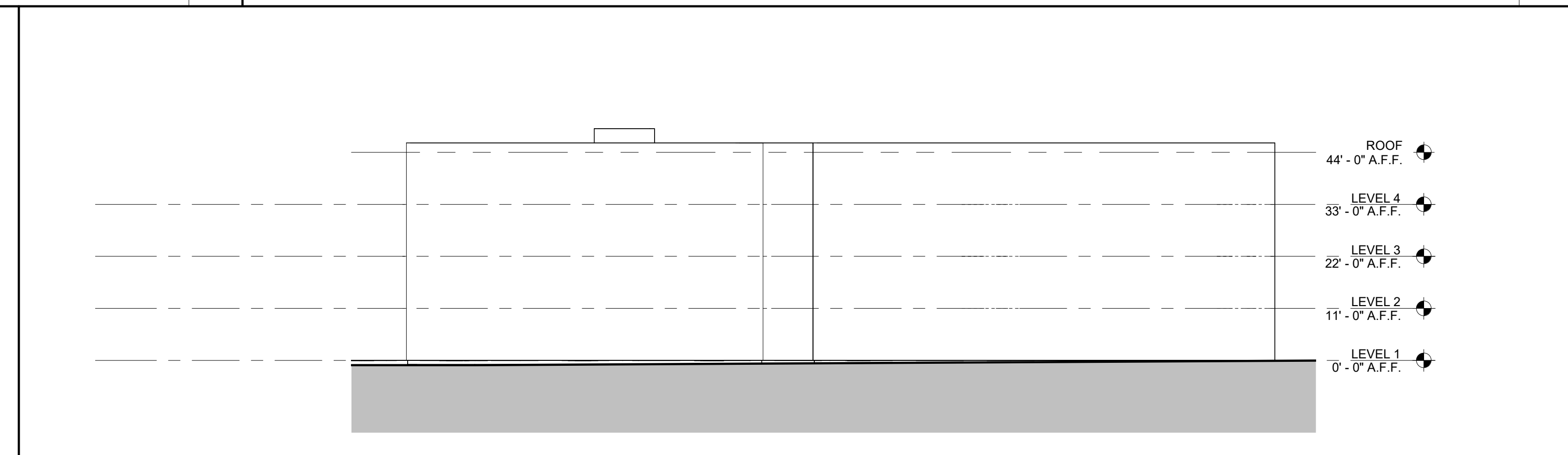
BLDG 3 - EAST ELEV
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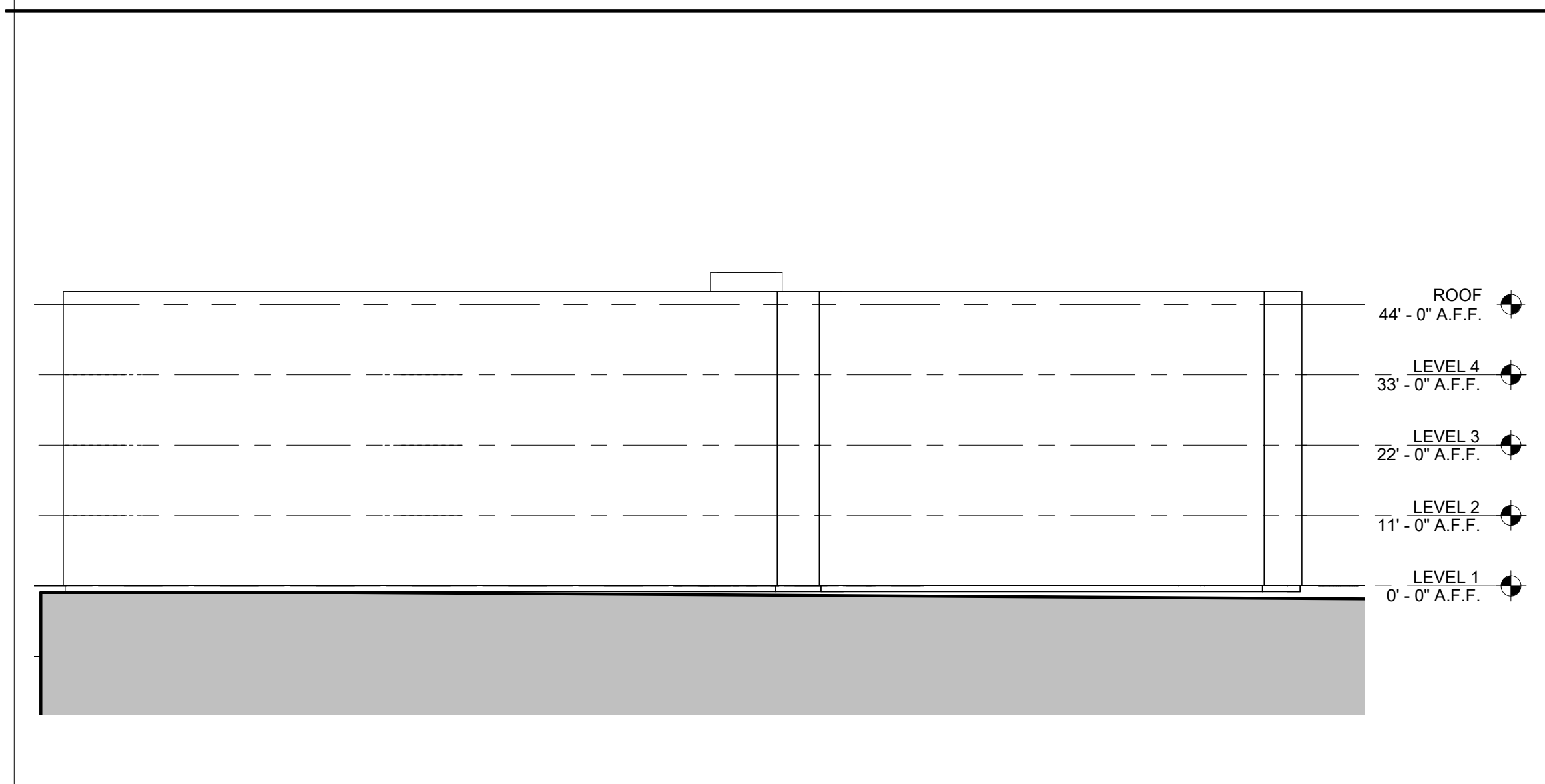
BLDG 3 - SOUTH ELEV
 1" = 20'-0" 3



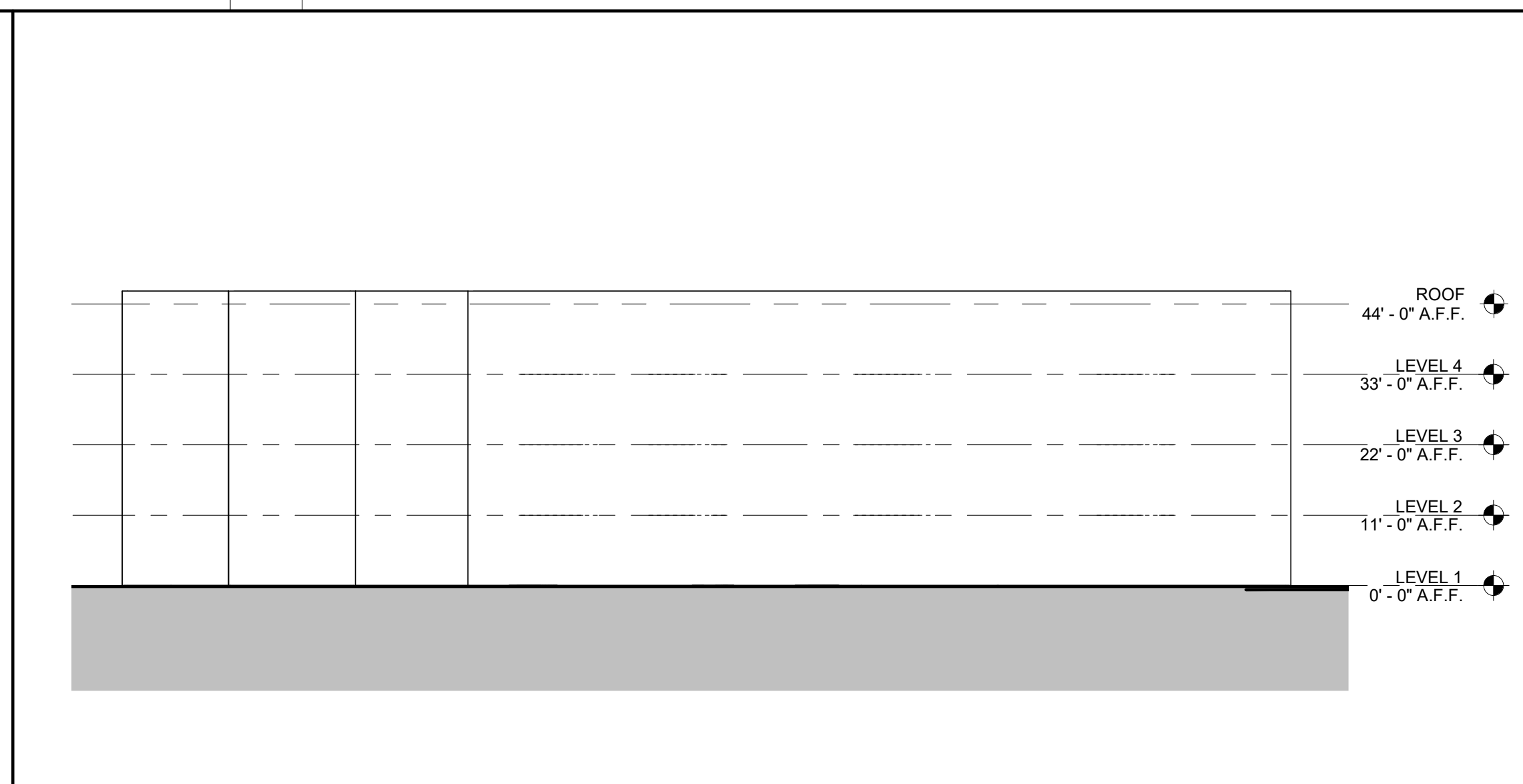
BLDG 2 - SOUTH ELEV
 1" = 20'-0" 7



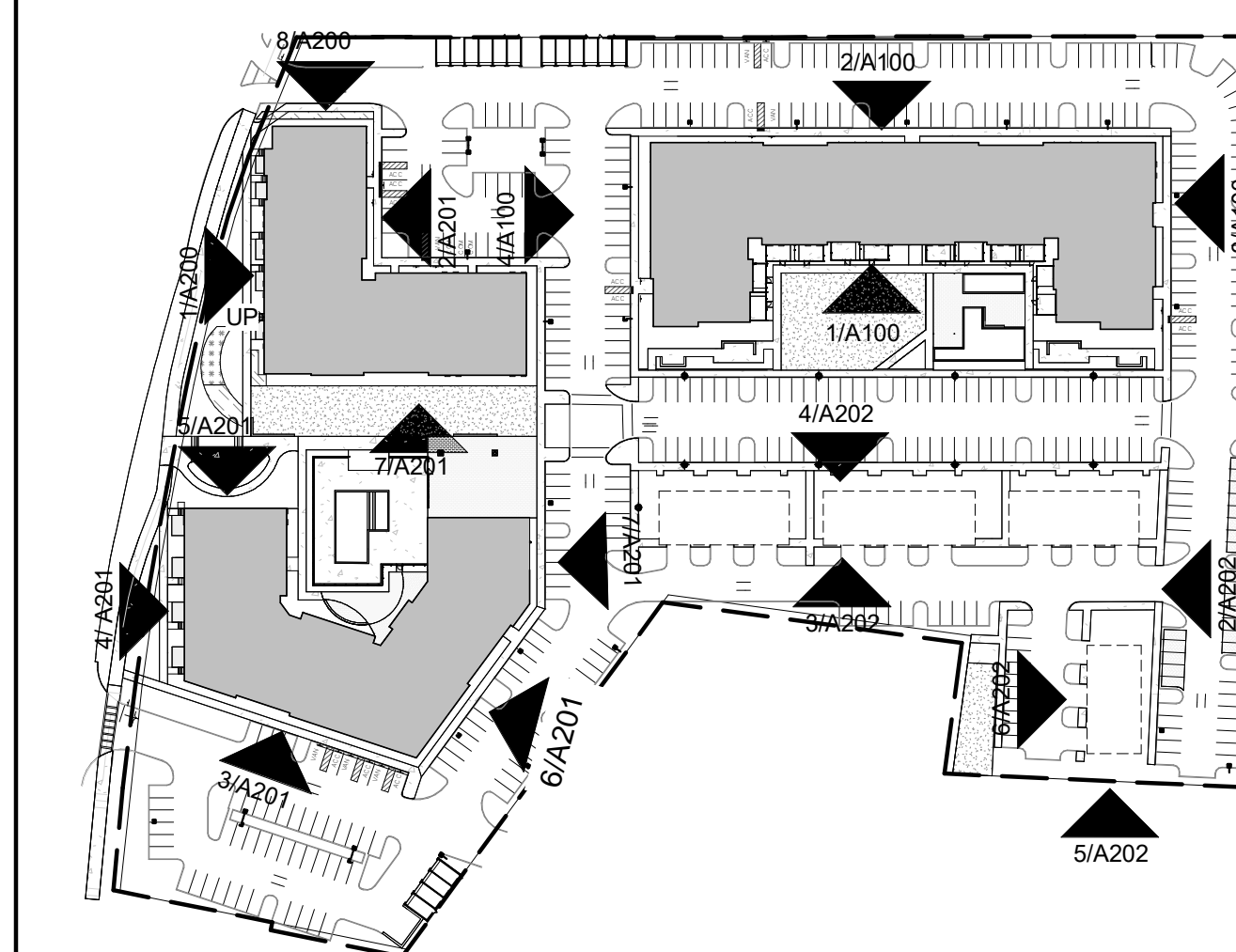
BLDG 2 - EAST ELEV
 1" = 20'-0" 2



BLDG 2 - NORTH ELEV
 1" = 20'-0" 8



BLDG 2 - WEST ELEV
 1" = 20'-0" 1



KEY PLAN
 REF DRAWING: 1 / A2.00 SCALE: 1" = 1596' 0

REVISIONS		
NO.	DATE	REVISION DESCRIPTION
1.	11/21/2022	REVISED PER 1ST CZP COMMENTS
2.	02/21/2023	REVISED PER 2ND CZP COMMENTS

PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
 DATE: 09.29.2022

BUILDING ELEVATIONS

A2.01



1000 Lancaster street
suite 430
ballimore, md 21202
t: 410.384.4244
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2nd Floor
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(800) 978.5606
t 1 617.848.9511

530 Hillsborough St
Raleigh, North Carolina 27603

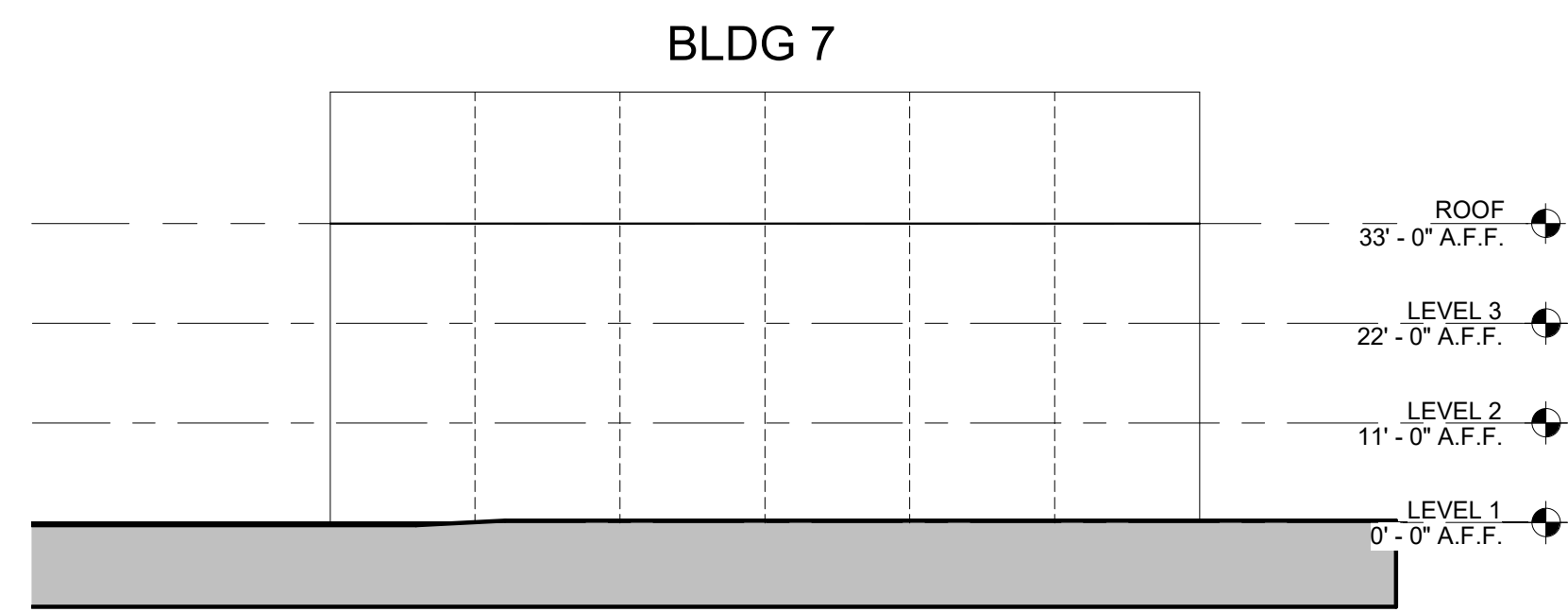
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t 1 919.589.1820

CLIENT

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FT. WASHINGTON, PA 19034
PHONE: 202.577.6491

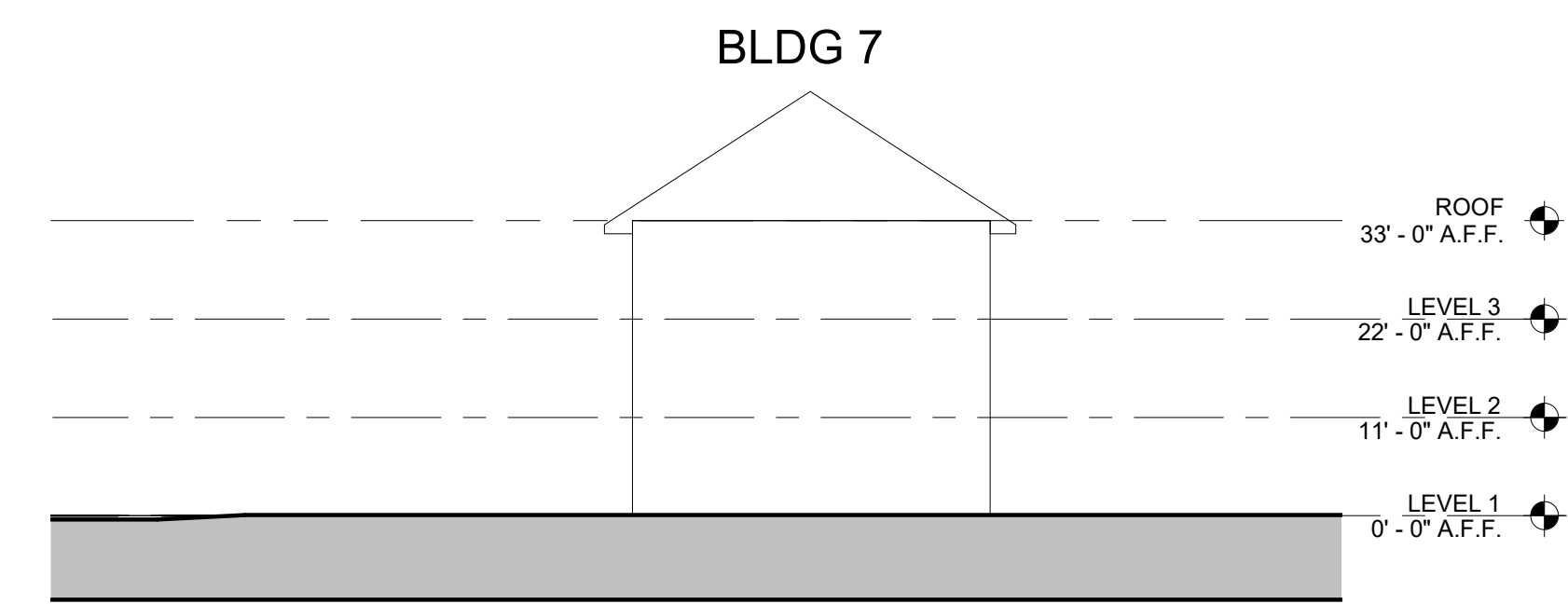


BARBEE CHAPEL APARTMENTS
CONDITIONAL ZONING PERMIT
DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NORTH CAROLINA, 27517



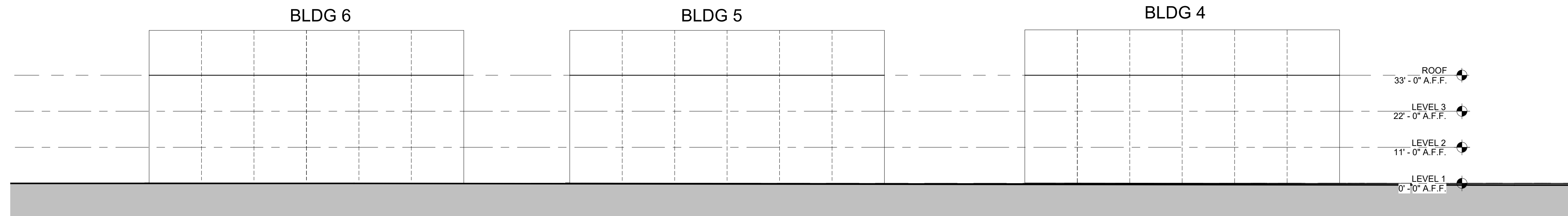
TOWNHOMES- WEST ELEVATION
1" = 20'-0"

6



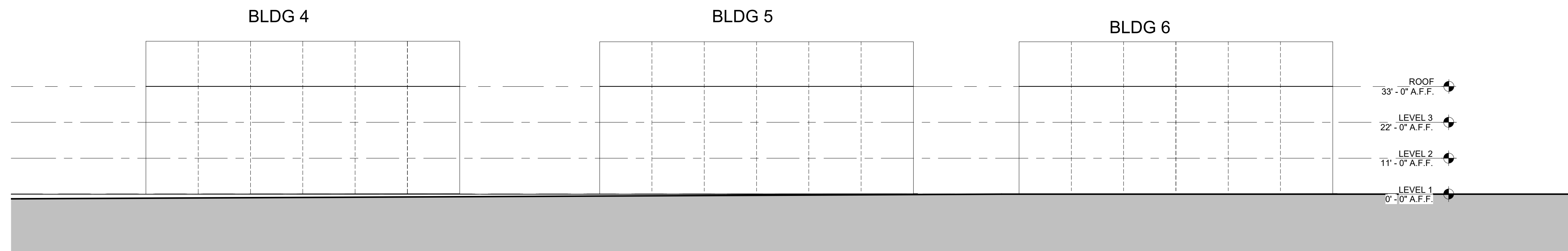
TOWNHOMES- SOUTH ELEVATION
1" = 20'-0"

5



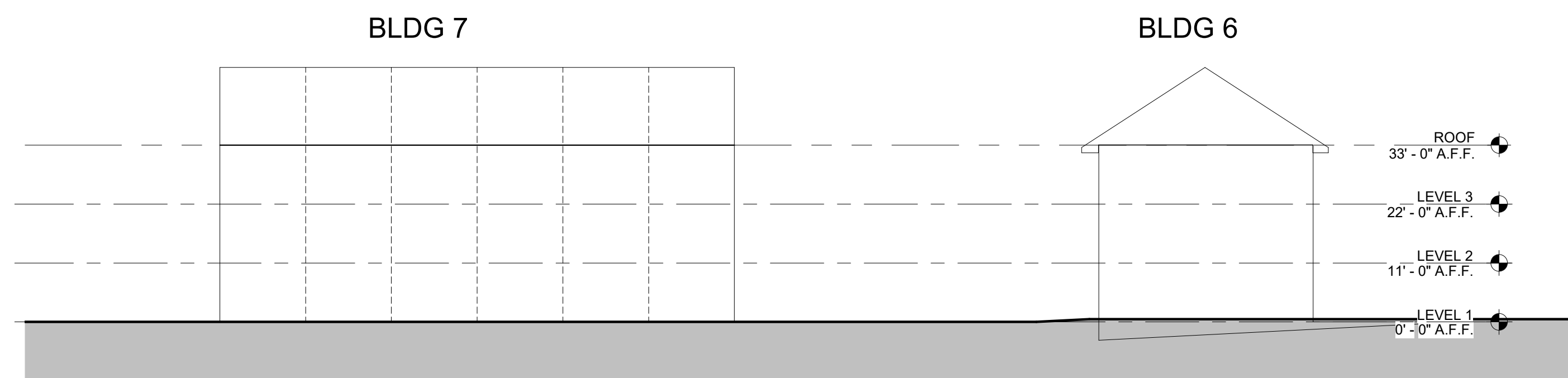
TOWNHOMES- NORTH ELEV
1" = 20'-0"

4



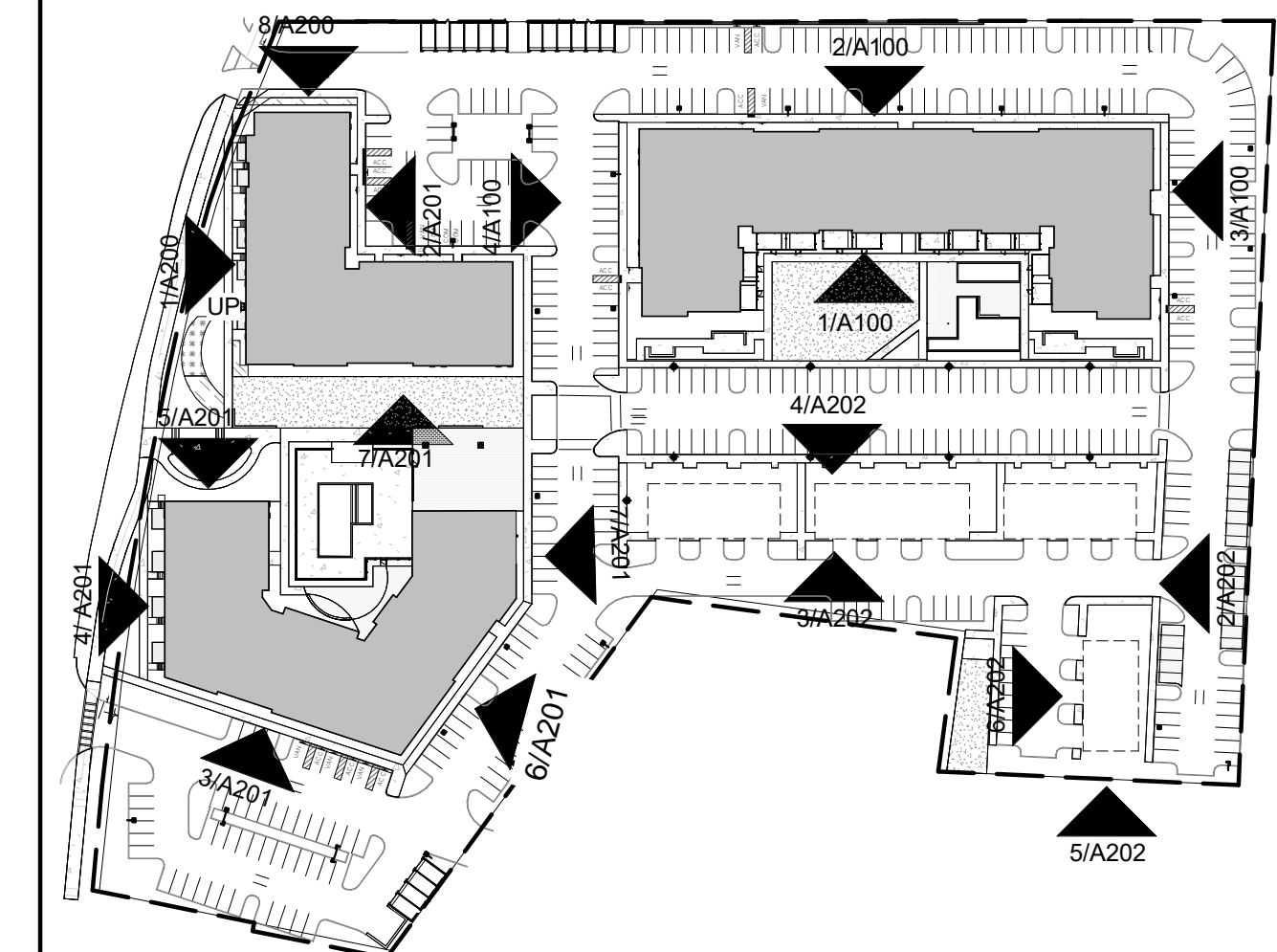
TOWNHOMES - SOUTH ELEV
1" = 20'-0"

3



TOWNHOMES- EAST ELEV
1" = 20'-0"

1



KEY PLAN
1 : 1596

0

REVISIONS

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PLAN INFORMATION

PROJECT NO.: P200798

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TOWNHOME ELEVATIONS

A2.02



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DRAWINGS
5101 BARBEE CHAPEL RD
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REVISIONS

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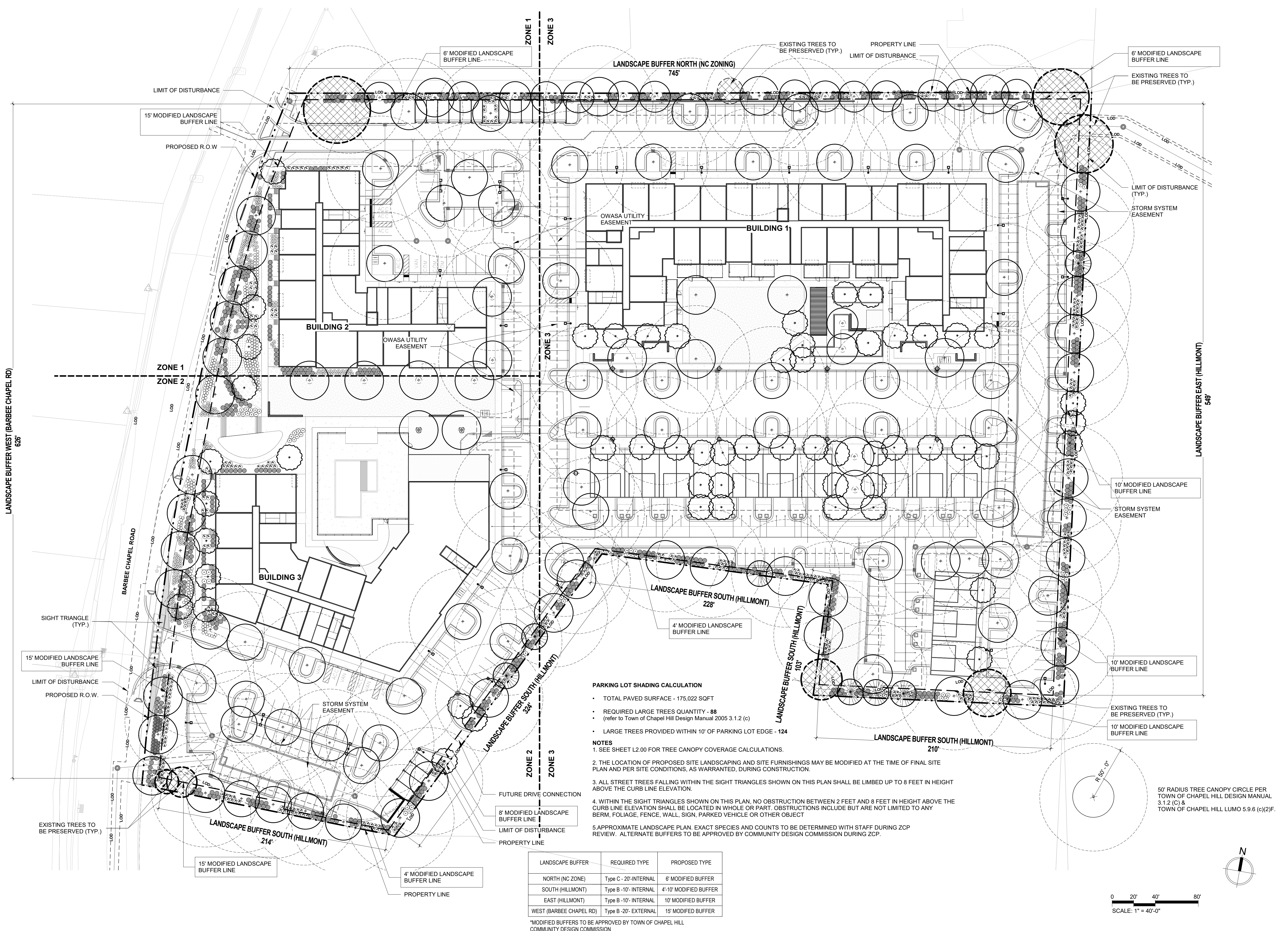
PLAN INFORMATION

PROJECT NO.: P200798

SCALE: AS INDICATED
DATE: 09/29/2022

OVERALL SITE PLAN

L1.00



PARKING LOT SHADING CALCULATION

- TOTAL PAVED SURFACE - 175,022 SQFT
- REQUIRED LARGE TREES QUANTITY - 88 (refer to Town of Chapel Hill Design Manual 2005 3.1.2 (c))
- LARGE TREES PROVIDED WITHIN 10' OF PARKING LOT EDGE - 124

NOTES

1. SEE SHEET L2.00 FOR TREE CANOPY COVERAGE CALCULATIONS.
2. THE LOCATION OF PROPOSED SITE LANDSCAPING AND SITE FURNISHINGS MAY BE MODIFIED AT THE TIME OF FINAL SITE PLAN AND PER SITE CONDITIONS, AS WARRANTED, DURING CONSTRUCTION.
3. ALL STREET TREES FALLING WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN SHALL BE LIMBED UP TO 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION.
4. WITHIN THE SIGHT TRIANGLES SHOWN ON THIS PLAN, NO OBSTRUCTION BETWEEN 2 FEET AND 8 FEET IN HEIGHT ABOVE THE CURB LINE ELEVATION SHALL BE LOCATED IN WHOLE OR PART. OBSTRUCTIONS INCLUDE BUT ARE NOT LIMITED TO ANY BERM, FOLIAGE, FENCE, WALL, SIGN, PARKED VEHICLE OR OTHER OBJECT.
5. APPROXIMATE LANDSCAPE PLAN. EXACT SPECIES AND COUNTS TO BE DETERMINED WITH STAFF DURING ZCP REVIEW. ALTERNATE BUFFERS TO BE APPROVED BY COMMUNITY DESIGN COMMISSION DURING ZCP.

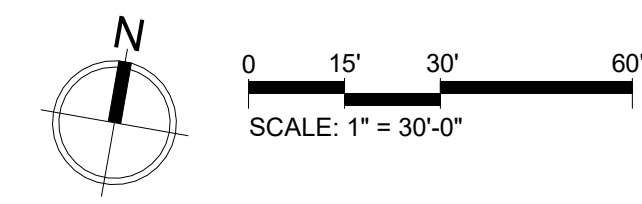
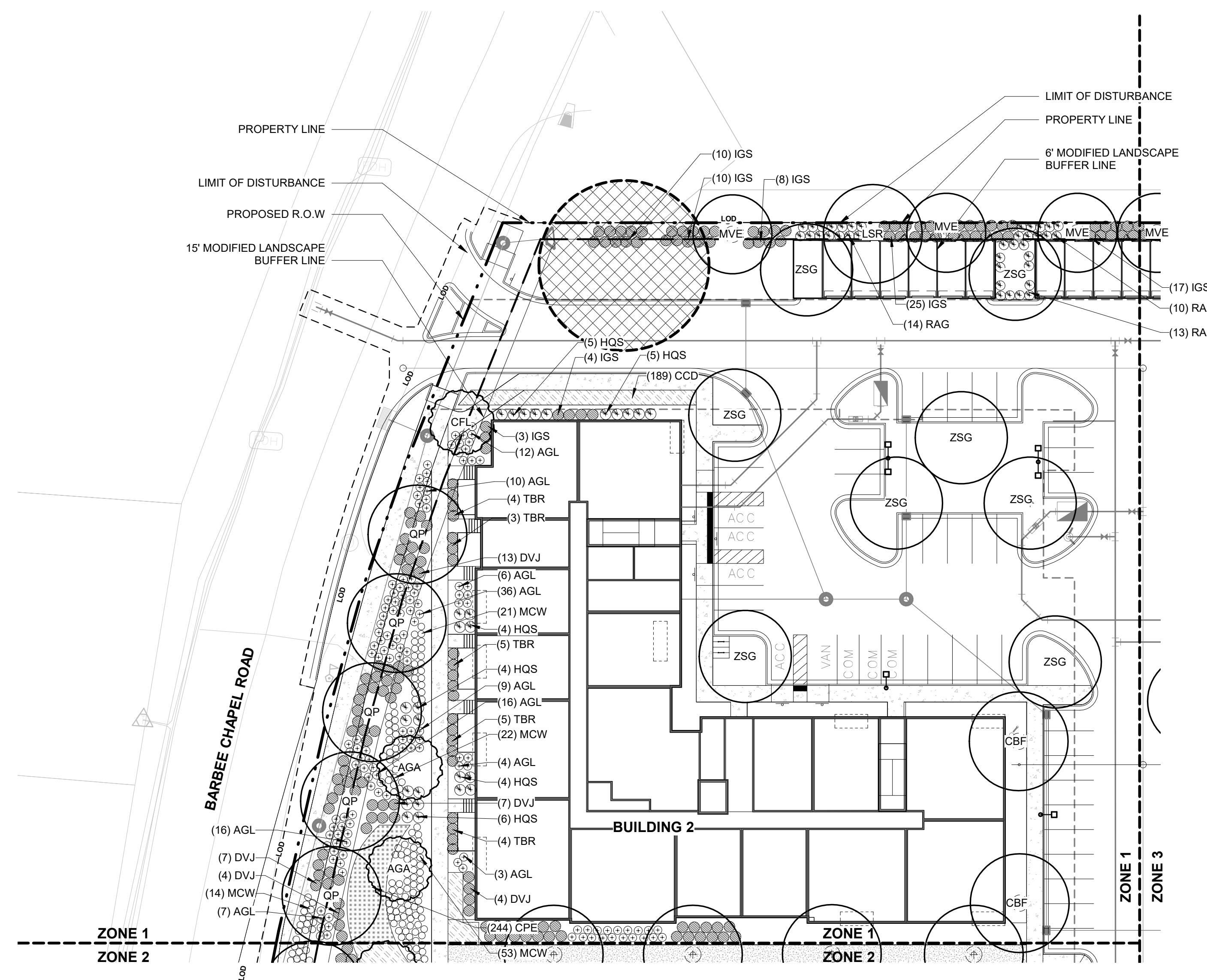
LANDSCAPE BUFFER	REQUIRED TYPE	PROPOSED TYPE
NORTH (NC ZONE)	Type C - 20'-INTERNAL	6' MODIFIED BUFFER
SOUTH (HILLMONT)	Type B - 10'-INTERNAL	4'-10' MODIFIED BUFFER
EAST (HILLMONT)	Type B - 10'-INTERNAL	10' MODIFIED BUFFER
WEST (BARBEE CHAPEL RD)	Type B - 20'-EXTERNAL	15' MODIFIED BUFFER

*MODIFIED BUFFERS TO BE APPROVED BY TOWN OF CHAPEL HILL COMMUNITY DESIGN COMMISSION

TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	Carpinus betulus 'Fastigiata'	European Hornbeam	4" Cal
LSR	Liquidambar styraciflua 'Rotundiloba'	Seedless Sweetgum	4" Cal
MVE	Magnolia virginiana 'Emerald Tower'	Upright Sweetbay Magnolia	3" Cal
QFA	Quercus falcata	Southern Red Oak	4" Cal
QP	Quercus phello	Willow Oak	4" Cal
ZSG	Zelkova serrata 'Green Vase'	Green Vase Zelkova	2.5" Cal
EVERGREEN CANOPY TREES			
PTA	Pinus taeda	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
AGA	Amelanchier x grandiflora 'Autumn Brilliance'	Apple Serviceberry	7'-8" Ht.
CFL	Cornus florida	Flowering Dogwood	7'-8" Ht.
Grand total			

SHRUB & ORNAMENTAL GRASS SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
MCW	Muhlenbergia capillaris 'White Cloud'	White Cloud Muhly Grass	#3
SHRUB			
AGL	Abelia x grandiflora 'Little Richard'	Little Richard Abelia	#3
CAH	Clethra alnifolia 'Hummingbird'	Sweet Pepperbush	#3
DVJ	Distylium x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3
HIN	Hamamelis x intermedia	Hybrid Witch Hazel	#3
HQS	Hydrangea quercifolia 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5
IGS	Ilex glabra 'Shamrock'	Inkberry Holly	#3
IVE	Ilex verticillata	Winterberry Holly	#3
IVH	Itea virginica 'Henry's Garnet'	Virginia sweetspire	#3
RAG	Rhus aromatica 'Grow-low'	Dwarf Sumac 'Grow-low'	#3
TBR	Taxus baccata 'Repandens'	Spreading English Yew	#3
TMD	Taxus x media 'Densiflora'	Dense Yew	#3

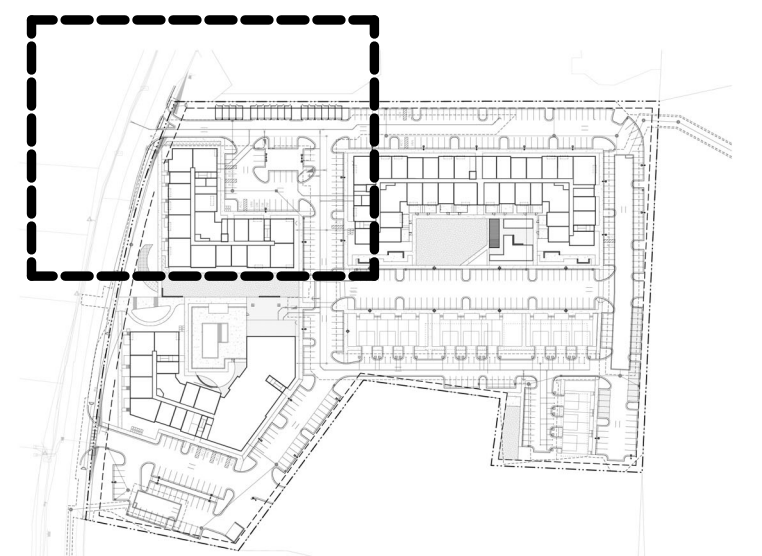
PERENNIAL SCHEDULE - KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	Carex cherokeensis	Cherokee Sedge	#1
CPE	Carex pensylvanica	Sedge	#1



LEGEND

- LOD --- LIMITS OF DISTURBANCE
- TP --- TREE PROTECTION FENCE
- P.L. --- PROPERTY LINE
- CANOPY TREES
- UNDERSTORY TREES
- EVERGREEN TREES
- EXISTING TREES TO BE PRESERVED
- PARKING LOT LIGHTING
- STREET LIGHT

- NOTES**
- SEE SHEET L2.00 FOR TREE CANOPY COVERAGE CALCULATIONS.
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**BARBEE CHAPEL APARTMENTS
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DRAWINGS
5101 BARBEE CHAPEL RD
CHAPEL HILL, NORTH CAROLINA, 27517**



REVISIONS

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PLAN INFORMATION

PROJECT NO.: P200798

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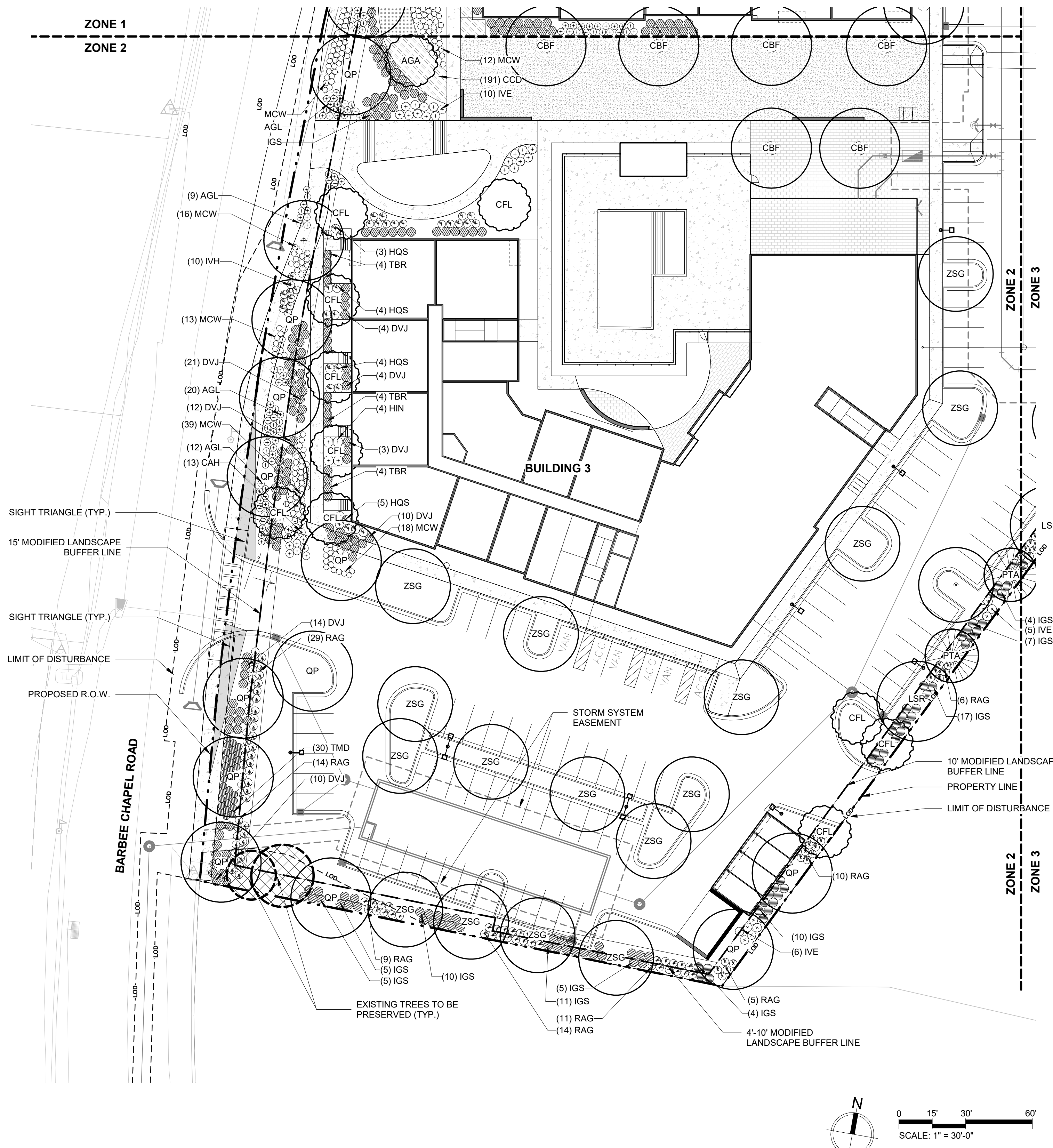
PLANTING PLAN ZONE 01

L1.01

TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	<i>Carpinus betulus</i> 'Fastigiata'	European Hornbeam	4" Cal
LSR	<i>Liquidambar styraciflua</i> 'Rotundiloba'	Seedless Sweetgum	4" Cal
MVE	<i>Magnolia virginiana</i> 'Emerald Tower'	Upright Sweetbay Magnolia	3" Cal
QFA	<i>Quercus falcata</i>	Southern Red Oak	4" Cal
QP	<i>Quercus phello</i>	Willow Oak	4" Cal
ZSG	<i>Zelkova serrata</i> 'Green Vase'	Green Vase Zelkova	2.5" Cal
EVERGREEN CANOPY TREES			
PTA	<i>Pinus taeda</i>	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
AGA	<i>Amelanchier</i> x <i>grandiflora</i> 'Autumn Brilliance'	Apple Serviceberry	7'-8" Ht.
CFL	<i>Cornus florida</i>	Flowering Dogwood	7'-8" Ht.
Grand total			

SHRUB & ORNAMENTAL GRASS SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
MCW	<i>Muhlenbergia capillaris</i> 'White Cloud'	White Cloud Muhy Grass	#3
SHRUB			
AGL	<i>Abelia</i> x <i>grandiflora</i> 'Little Richard'	Little Richard Abelia	#3
CAH	<i>Clethra alnifolia</i> 'Hummingbird'	Sweet Pepperbush	#3
DVJ	<i>Dietylum</i> x 'Vintage Jade'	Vintage Jade Evergreen Witch Hazel	#3
HIN	<i>Hamelis</i> x <i>intermedia</i>	Hybrid Witch Hazel	#3
HQS	<i>Hydrangea quercifolia</i> 'Sike's Dwarf'	Dwarf Oakleaf Hydrangea	#5
IGS	<i>Ilex glabra</i> 'Shamrock'	Inkberry Holly	#3
IVE	<i>Ilex verticillata</i>	Winterberry Holly	#3
IVH	<i>Itea virginica</i> 'Henry's Garnet'	Virginia sweetspire	#3
RAG	<i>Rhus aromatica</i> 'Grow-low'	Dwarf Sumac 'Gro-low'	#3
TBR	<i>Taxus baccata</i> 'Repandens'	Spreading English Yew	#3
TMD	<i>Taxus</i> x <i>media</i> 'Densiformis'	Dense Yew	#3

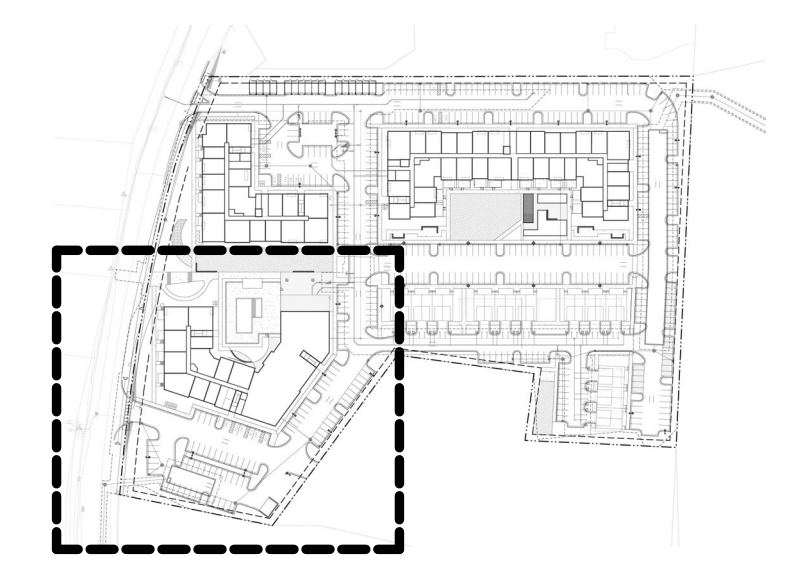
PERENNIAL SCHEDULE - KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	<i>Carex cherokeensis</i>	Cherokee Sedge	#1
CPE	<i>Carex pensylvanica</i>	Sedge	#1



LEGEND

- LOD --- LIMITS OF DISTURBANCE
- TP - TREE PROTECTION FENCE
- - - - - PROPERTY LINE
- CANOPY TREES
- UNDERSTORY TREES
- EVERGREEN TREES
- EXISTING TREES TO BE PRESERVED
- PARKING LOT LIGHTING
- STREET LIGHT

- NOTES**
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REVISIONS

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PLAN INFORMATION
 PROJECT NO.: P200798

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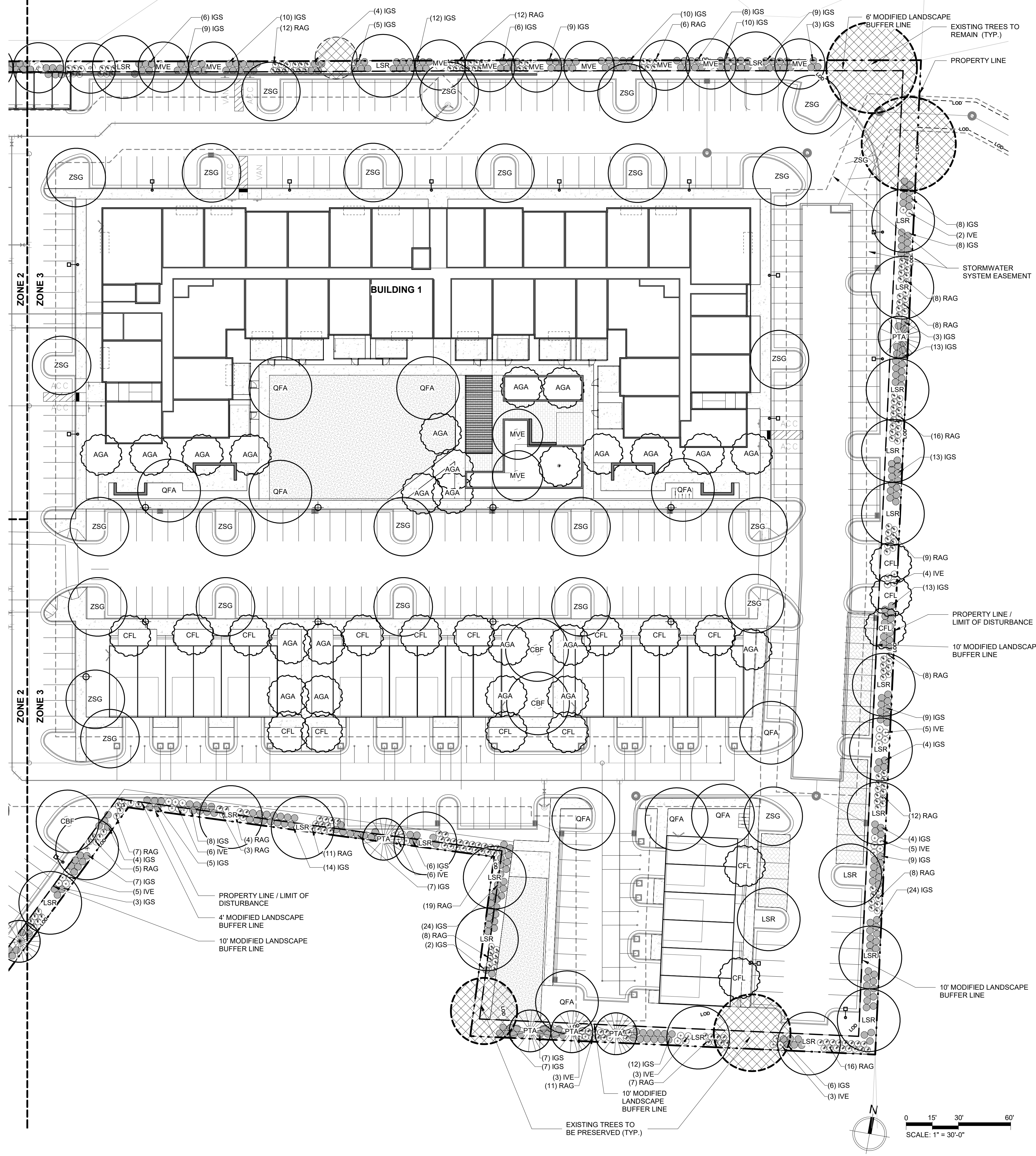
PLANTING PLAN ZONE 2

L1.02

TREE SCHEDULE-KEY			
PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CANOPY TREES			
CBF	<i>Carpinus betulus</i> 'Fastigiata'	European Hornbeam	4" Cal
LSR	<i>Liquidambar styraciflua</i> 'Rotundiloba'	Seedless Sweetgum	4" Cal
MVE	<i>Magnolia virginiana</i> 'Emerald Tower'	Upright Sweetbay Magnolia	3" Cal
QFA	<i>Quercus falcata</i>	Southern Red Oak	4" Cal
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EVERGREEN CANOPY TREES			
PTA	<i>Pinus taeda</i>	Loblolly Pine	2.5" Cal
UNDERSTORY TREES			
AGA	<i>Amelanchier x grandiflora</i> 'Autumn Brilliance'	Apple Serviceberry	7'-8" Ht.
CFL	<i>Cornus florida</i>	Flowering Dogwood	7'-8" Ht.
Grand total			

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PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
ORNAMENTAL GRASS			
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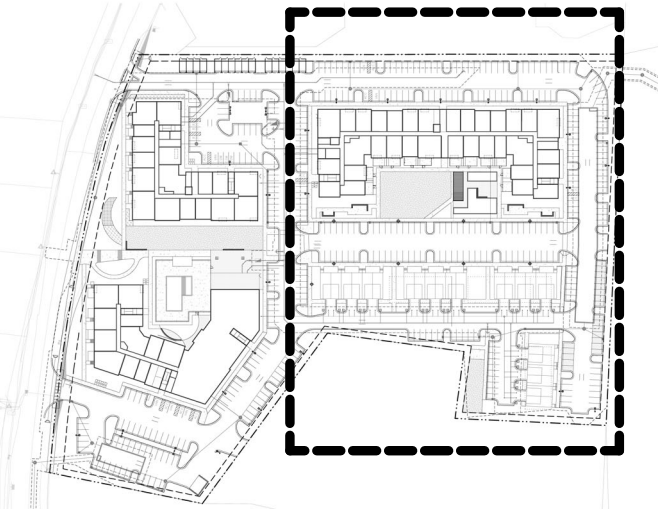
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PLANT ID	SCIENTIFIC NAME	COMMON NAME	SIZE
CCD	<i>Carex cherokeensis</i>	Cherokee Sedge	#1
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LEGEND

- LOD --- LIMITS OF DISTURBANCE
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PLANTING PLAN ZONE 03
SCALE: 1" = 30'-0"



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PLANTING PLAN ZONE 03

L1.03