

SENIOR RESIDENTIAL DEVELOPMENT

HAGER HOMESTEAD

LITTLETON, MA

SITE DATA

LOT AREA: 15,17± AC. (660,575 SF)
WATER SUPPLY: MUNICIPAL
APPROXIMATE WATER USE: 3,720 GPD
SEWAGE DISPOSAL: CONNECTION TO LITTLETON WASTEWATER TREATMENT SYSTEM
APPROXIMATE SEWAGE FLOW: 3,720 GPD [SEE PLAN REFERENCE #5]
ZONING DISTRICT: RESIDENTIAL
OVERLAY DISTRICT: AQUIFER & WATER RESOURCE

SENIOR RESIDENTIAL DEVELOPMENT

PARAMETER	FORMULA	VARIABLE	REQUIRED	PROVIDED
Two-Family Dwelling Units	4 Units/Acre	6 Units	1.5 AC.	
Townhouse Dwelling Units	8 Units/Acre	3 Units	0.38 AC.	
Independent Living Units	20 Units/Acre	17 Units	0.85 AC.	
Total Site Area			2.73 AC.	15.17 AC.

Minimum Open Space	30% Parcel Area	660,575± SF	198,173± SF	608,537± SF
Contiguous Upland Area	75% Min. Open Space Area	198,173± SF	148,630± SF	164,657± SF

PARKING COMPUTATIONS

USE	FORMULA	VARIABLE	REQUIRED SPACES	PROVIDED SPACES
Town House & Cottage Dwellings	2 Spaces per Unit	9 Units	18	
Independent Living Units	1 Space per Unit	17 Units	17	
Guest Parking	1 Space per 3 Units	26 Units	9	

Total Parking Spaces 44 44

NOTES: 1. See Zoning Bylaw section 173-148(F).

COVERAGE COMPUTATIONS

PARAMETER	AREA (AC)	AREA (SF)	% OF TOTAL LOT AREA
EXISTING CONDITION			
Lot Area	15.17±	660,575±	100%
Buildings & Decks	0.18±	7,682±	1.2%
Pavement, Walks, and Misc. Impervious	0.41±	17,800±	2.7%
Pond	0.26±	11,183±	1.7%
TOTAL IMPERVIOUS AREA	0.85±	36,665±	5.6%
PROPOSED CONDITION			
Lot Area	15.17±	660,575±	100%
Buildings & Decks	0.62±	26,899±	4.1%
Pavement, Walks, and Misc. Impervious	0.46±	20,026±	3.0%
Pond	0.26±	11,183±	1.7%
TOTAL IMPERVIOUS AREA	1.33±	58,108±	8.8%

EXISTING CONDITION NOTES:

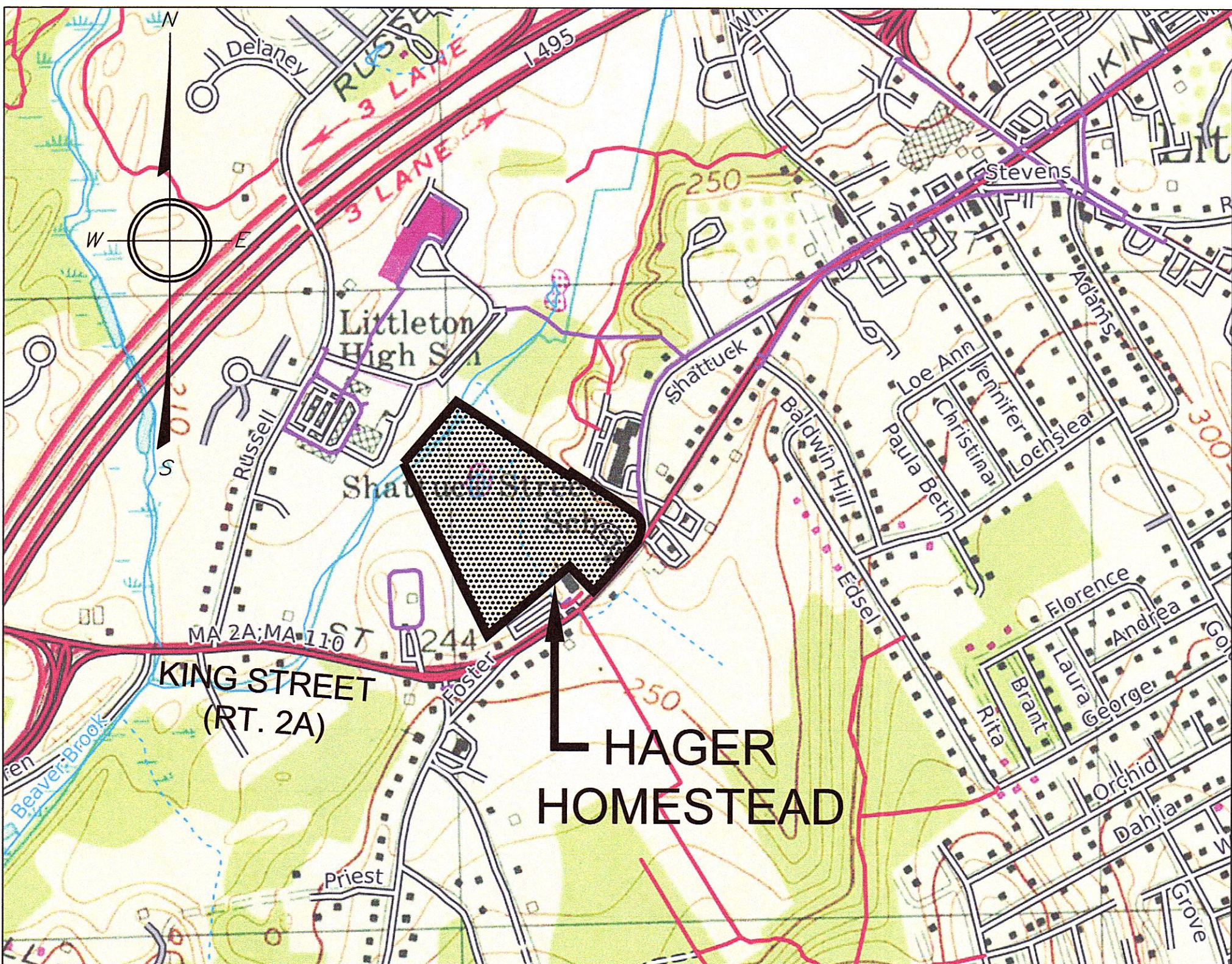
- EXISTING CONDITION INFORMATION SHOWN IS BASED ON AN INSTRUMENT SURVEY PERFORMED BY GOLDSMITH, PREST & RINGWALL, INC. DURING OCTOBER 2019.
- THE EDGE OF WETLAND AND RIVER HAS BEEN DELINEATED BY OXBOW ASSOCIATES, INC. OCTOBER 2019 THROUGH NOVEMBER 2019, AND APPROVED BY THE LITTLETON CONSERVATION COMMISSION MARCH 23, 2020 [SEE PLAN REFERENCE #1].
- DELINEATION OF EXISTING POND AND TRENCHES WITHIN THE WETLANDS ARE APPROXIMATE AND ARE BASED ON ARIEL IMAGES FROM GOOGLE EARTH.

GENERAL NOTES

- LOCATIONS OF EXISTING UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS SHOWN HEREON ARE APPROXIMATE ONLY. ALL UTILITIES/OBSTRUCTIONS/SYSTEMS MAY NOT BE SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES/OBSTRUCTIONS/SYSTEMS, WHETHER OR NOT SHOWN HEREON.
- UNLESS OTHERWISE SHOWN, ALL NEW UTILITIES SHALL BE UNDERGROUND.
- BURIED UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR RESPECTIVE COMPANY SPECIFICATIONS.
- CONSTRUCTION LAYOUT OF BUILDING AND SITE IMPROVEMENTS SHALL BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR. LOCATIONS OF EXISTING FEATURES OR PROPOSED IMPROVEMENTS DERIVED BY SCALING DRAWINGS MAY NOT BE ACCURATE. PROPERTY LINES SHOWN HEREON ARE APPROXIMATE. SEE PLAN REFERENCE HEREON.
- SAFETY MEASURES, CONSTRUCTION METHODS, AND CONTROL OF WORK SHALL BE RESPONSIBILITY OF CONTRACTOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ANY EXISTING UTILITY OR STRUCTURE DAMAGED DURING CONSTRUCTION THAT ARE NOT DESIGNATED FOR DEMOLITION AND/OR REMOVAL HEREON. DAMAGED UTILITY OR STRUCTURE SHALL BE REPAIRED TO THE SATISFACTION OF THEIR RESPECTIVE OWNERS.
- ANY INTENDED REVISION OF THE HORIZONTAL AND/OR VERTICAL LOCATION OF IMPROVEMENTS TO BE CONSTRUCTED AS SHOWN HEREON SHALL BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO IMPLEMENTATION.
- CONTRACTOR SHALL NOTIFY ENGINEER UPON COMMENCEMENT OF CONSTRUCTION IN ORDER TO ENSURE THAT REQUIRED INSPECTIONS ARE PERFORMED IN A TIMELY AND EFFICIENT MANNER.
- CONTRACTOR SHALL PROMPTLY NOTIFY ENGINEER UPON DISCOVERY OF ANY UNFORESEEN SURFACE OR SUBSURFACE CONDITIONS THAT MAY IMPACT SITE CONSTRUCTION.
- FINISH RIM ELEVATIONS SHOULD MATCH PAVEMENT, GRADING OR LANDSCAPING, UNLESS SPECIFICALLY INDICATED OTHERWISE.
- WHERE EXISTING UTILITY LINES/STRUCTURES ARE TO BE CUT/BROKEN DOWN/ABANDONED, LINES/STRUCTURES SHALL BE PLUGGED/CAPPED/FILLED IN ACCORDANCE WITH UTILITY OWNER REQUIREMENTS.
- EROSION CONTROL MEASURES, SUCH AS SILT FENCE OR STRAW BALES AS MAY BE SHOWN HEREON, SHALL BE INSTALLED BEFORE EARTH DISTURBANCE OCCURS WITHIN BUFFER ZONE, AND SHALL SERVE AS THE LIMIT OF WORK.
- WHERE THE WORD "INSTALL" IS USED HEREON, IT IS INTENDED TO DIRECT CONTRACTOR TO "FURNISH, INSTALL, AND PLACE IN OPERATION" THE COMPONENT REFERRED TO.
- LIMITS OF WORK SHALL BE STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL STORM DRAIN PIPE TO BE SMOOTH INTERIOR HDPE PIPE, 2.0 PSI GASKETED JOINT, UNLESS OTHERWISE NOTED.
- WHERE SHOWN, CONSTRUCTION NOTES ARE INTENDED TO SUMMARIZE AND CLARIFY MAJOR ITEMS OF WORK. THESE NOTES SHOULD NOT BE CONSTRUED AS AN EXHAUSTIVE LISTING OF ALL WORK REQUIRED. CONTRACTOR SHOULD CONTACT ENGINEER WHEN FURTHER CLARIFICATION OF DEPICTED WORK IS DESIRED.
- CONSTRUCTION OF FIRE AND DOMESTIC WATER SUPPLY IMPROVEMENTS SHALL CONFORM TO TOWN OF LITTLETON REQUIREMENTS.
- WHERE DIMENSIONS INVOLVE CURB, DIMENSIONS ARE TO FACE OF CURB, WHERE SLOPED GRANITE CURB OR CAPE COD BERM SPECIFIED, FACE OF CURB IS EDGE OF FINISH PAVEMENT AT TOE OF CURB.
- NO DEBRIS, JUNK, RUBBISH OR OTHER NON-BIODEGRADABLE MATERIALS, FILL CONTAINING HAZARDOUS MATERIALS OR WASTES, OR STUMPS SHALL BE BURIED ON ANY LAND ON THIS SITE, OR LEFT ON ANY LOT OR ON THE STREET RIGHT OF WAY.

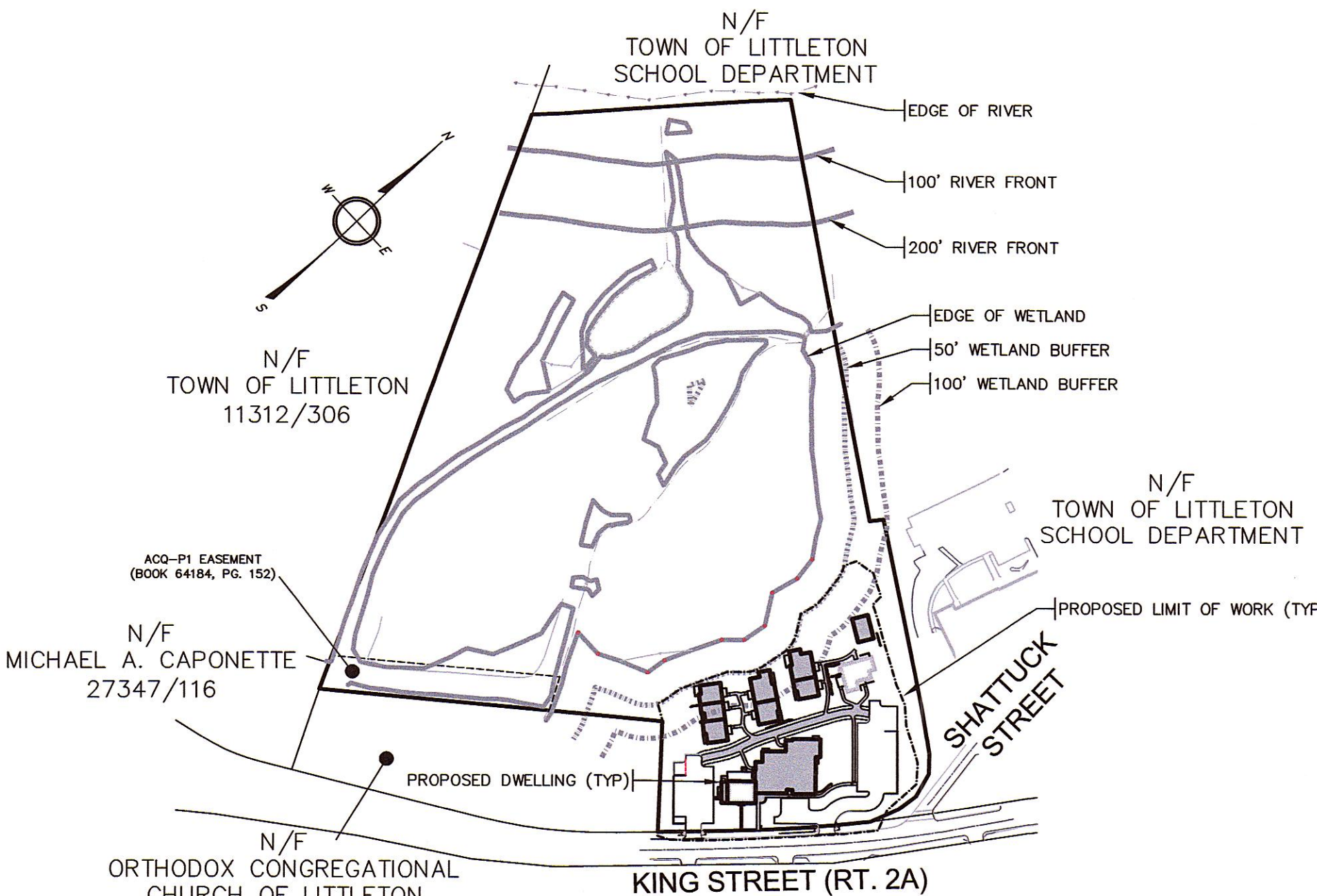
REGULATORY NOTES

- CONTRACTOR SHALL CONTACT DIG-SAFE FOR UNDERGROUND UTILITY MARKING AT 888.344.7233 AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL GIVE TWENTY-FOUR (24)-HOUR NOTICE TO PERTINENT TOWN DEPARTMENTS BEFORE COMMENCING ANY WORK IN THE FIELD.
- CONTRACTOR SHALL COORDINATE AND OBTAIN ALL CONSTRUCTION PERMITS REQUIRED BY REGULATORY AUTHORITIES. CONTRACTOR SHALL BE AWARE OF ALL CONSTRUCTION REQUIREMENTS, CONDITIONS, AND LIMITATIONS IMPOSED BY PERMITS AND APPROVALS ISSUED BY REGULATORY AUTHORITIES PRIOR TO COMMENCEMENT OF ANY WORK.
- ALL WORK OUTSIDE OF BUILDING THAT IS LESS THAN 10 FEET FROM THE INSIDE FACE OF BUILDING FOUNDATION SHALL CONFORM WITH THE UNIFORM STATE PLUMBING CODE OF MASSACHUSETTS, 248 CMR 2.00.
- GENERAL COMPLIANCE WITH 28 CFR PART 36 - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 521 CMR PART C, EXTERIOR OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS IS INTENDED. CONTRACTOR SHALL VERIFY COMPLIANCE DURING CONSTRUCTION AND SHALL NOTIFY THE OWNER OF ANY NON-COMPLIANCE ISSUES AS SOON AS DISCOVERED.



VICINITY MAP

SCALE: 1" = 600'



PLOT PLAN

SCALE: 1" = 200'

SHEET INDEX

CIVIL - SITE PLAN

C1.1 TITLE SHEET

~~C2.1 DEMOLITION AND EROSION & SEDIMENT CONTROL PLAN~~

~~C2.2 EROSION AND SEDIMENT CONTROL DETAILS~~

~~C3.1 SITE AND UTILITIES LAYOUT PLAN~~

C3.2 SITE LAYOUT PLAN

C4.1 GRADING AND PAVING PLAN

~~C4.2 DRAINAGE PLAN~~

~~C5.1 CONSTRUCTION DETAILS~~

~~C5.2 CONSTRUCTION DETAILS~~

~~C5.3 CONSTRUCTION DETAILS~~

~~C6.1 TEMPORARY TRAFFIC CONTROL & UTILITIES PLAN~~

~~C6.2 TEMPORARY TRAFFIC CONTROL & STOPPING SIGHT DISTANCE PLAN~~

~~CIVIL - SEWAGE DISPOSAL SYSTEM~~

~~SHEET 1 OF 2 - SEWAGE DISPOSAL SYSTEM SITE PLAN~~

~~SHEET 2 OF 2 - CONSTRUCTION DETAILS~~

ASSESSORS REFERENCE

ASSESSORS PARCEL MAP U19, PARCEL 38
RECORD OWNER: CRAIG C. GRUSKOWSKI & HEIDI PLATT GRUSKOWSKI
338 KING ST. LITTLETON, MA 01460

ASSESSORS PARCEL MAP U19, PARCEL 38-1
RECORD OWNER: CRAIG C. GRUSKOWSKI & HEIDI PLATT GRUSKOWSKI,
TRUSTEES OF FAIRNESS REALTY TRUST
338 KING ST. LITTLETON, MA 01460

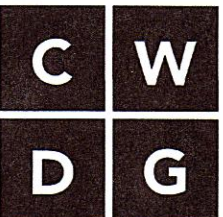
PLAN REFERENCES

- "ORDER OF RESOURCE AREA DELINEATION" PREPARED FOR MASSACHUSETTS COHOUSING LLC. BY THE LITTLETON CONSERVATION COMMISSION, DATED MARCH 23, 2020. RECORDED AT THE MIDDLESEX SOUTH REGISTRY OF DEEDS BK: 74331 PG: 23.
- "SEWAGE DISPOSAL SYSTEM-338 KING STREET LITTLETON, MA" DESIGNED FOR CRAIG & HEIDI GRUSKOWSKI BY DAVID E. ROSS ASSOCIATES, INC. DATED JULY 1997.
- "SUBSURFACE SEWAGE DISPOSAL SYSTEM-338 KING STREET LITTLETON, MA" DESIGNED FOR RONALD COOPER BY WHITMAN & BINGHAM ASSOCIATES, INC. DATED MAY 31, 1993.
- "LEACHING SYSTEM REPAIR-CONGREGATIONAL CHURCH OF LITTLETON-308 KING STREET LITTLETON, MA" DESIGNED FOR CONGREGATIONAL CHURCH OF LITTLETON BY WARREN W. TERRELL, P.E. DATED AUGUST 1990. REVISED THROUGH 4/20/91.
- "SUBSURFACE SEWAGE DISPOSAL SYSTEM-NEW CONSTRUCTION-HAGER HOMESTEAD-336-338 KING STREET LITTLETON, MA" PREPARED FOR MASSACHUSETTS COHOUSING, LLC. BY GOLDSMITH, PREST & RINGWALL, INC. DATED SEPTEMBER 2020. REVISED 03/26/2021.
- "WPA FORM 5 - ORDER OF CONDITIONS" AS ISSUED BY THE LITTLETON CONSERVATION COMMISSION FOR 336-338 KING STREET, LITTLETON, MA. DATED 11/23/2020. MASSDEP FILE #204-916.
- "SPECIAL PERMIT - SENIOR RESIDENTIAL DEVELOPMENT" PREPARED BY GOLDSMITH, PREST & RINGWALL, INC. DATED APRIL 2020. LAST REVISED 11/02/20. JOB NO. 191096.
- "RESIDENTIAL DEVELOPMENT - HAGER HOMESTEAD EXHIBIT PLAN: TRAIL & OPEN SPACE MAINTENANCE" PREPARED BY GOLDSMITH, PREST & RINGWALL, INC. DATED NOVEMBER 2020. JOB NO. 191096.
- "CONSOLIDATED DECISION - HAGER HOMESTEAD" AS ISSUED BY THE LITTLETON PLANNING BOARD DATED DECEMBER 8, 2020.
- "CONSERVATION RESTRICTION & ACCESS EASEMENT PLAN - #336-338 KING STREET, LITTLETON, MASS." PREPARED BY GOLDSMITH, PREST & RINGWALL, INC. DATED JUNE 3, 2021. JOB NO. 191096.
- "SENIOR RESIDENTIAL DEVELOPMENT - MASSDOT ACCESS PERMIT - HAGER HOMESTEAD" PREPARED BY GOLDSMITH, PREST & RINGWALL, INC. DATED MARCH 2021. LAST REVISED 6/1/21. JOB NO. 191096.
- "HAGER HOMESTEAD - 338 KING STREET, LITTLETON, MA" PREPARED BY SHELDON PENNOYER ARCHITECTS. DATED SEPTEMBER 16, 2021.
- "HAGER HOMESTEAD - 336 KING STREET, LITTLETON, MA" PREPARED BY COPLEY WOLFF DESIGN GROUP. DATED 05/23/21. LAST REVISED 09/16/21. JOB NO. 1964.
- "HAGER HOMESTEAD - 336 KING STREET, LITTLETON, MA" PREPARED BY ELECTRICAL SYSTEMS ENGINEERING, INC. DATED 09/13/21. LAST REVISED AUGUST 13, 2021. JOB NO. 221067.

PROJECT TEAM:

**SHELDON
PENNOYER
ARCHITECTS**
ARCHITECTURE
PLANNING + DESIGN

64 NORTH MAIN STREET, SUITE 1, CONCORD, NH 03301



Copley Wolff Design Group
Landscape Architects & Planners

10 POST OFFICE SQUARE, SUITE 1315, BOSTON, MA 02109

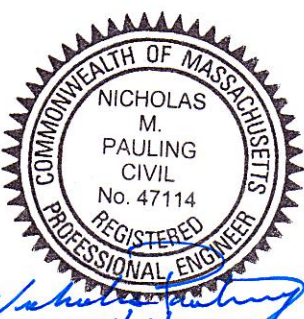
**FITCH ARCHITECTURE
& COMMUNITY DESIGN**
home • community • planet

110 PULPIT HILL ROAD AMHERST, MA 01002

DRAWING ISSUED FOR:

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NO.	DATE	BY	APP.	REVISION DESCRIPTION
6	05/18/22	LT	NMP	PERMIT MODIFICATION
5	11/02/20	MCL	NMP	NO REVISIONS TO THIS SHEET
4	10/29/20	MCL	NMP	MISCELLANEOUS NOTE CLARIFICATION
3	10/19/20	MCL	NMP	PLANNING BOARD COMMENTS
2	07/08/20	MCL	NMP	PEER REVIEW COMMENTS
1	06/23/20	MCL	NMP	PEER REVIEW COMMENTS

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SENIOR RESIDENTIAL DEVELOPMENT

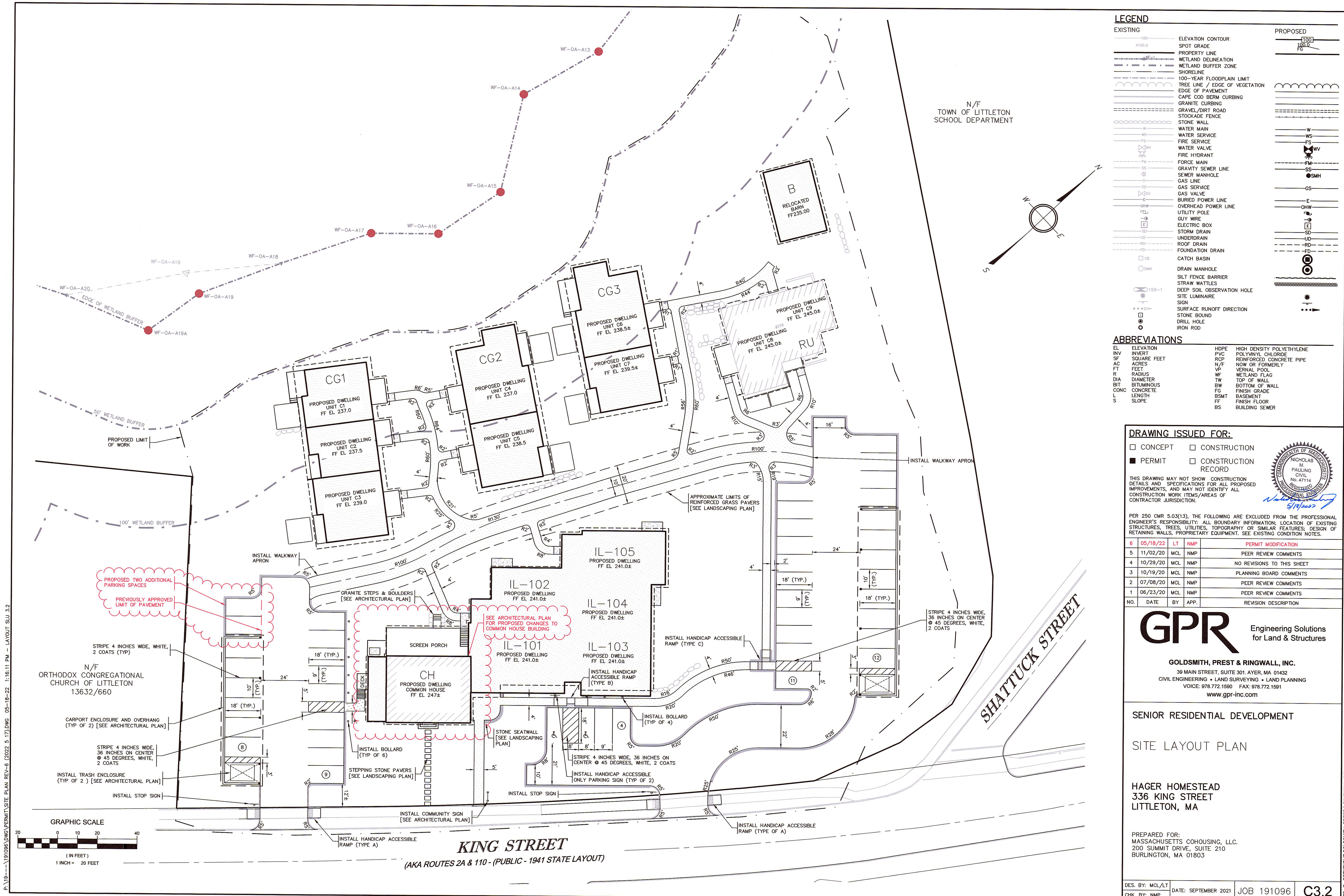
TITLE SHEET

HAGER HOMESTEAD
336 KING STREET
LITTLETON, MA

PREPARED FOR:
MASSACHUSETTS COHOUSING, LLC.
200 SUMMIT DRIVE, SUITE 210
BURLINGTON, MA 01803

DES. BY: MCL/LT	DATE: SEPTEMBER 2021	JOB 191096	C1.1
CHK. BY: NMP			

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LEGEND	
EXISTING	PROPOSED
ELEVATION CONTOUR	ELEVATION CONTOUR
SPOT GRADE	SPOT GRADE
PROPERTY LINE	PROPERTY LINE
WETLAND DELINEATION	WETLAND DELINEATION
WETLAND BUFFER ZONE	WETLAND BUFFER ZONE
SHORELINE	SHORELINE
100-YEAR FLOODPLAIN LIMIT	100-YEAR FLOODPLAIN LIMIT
TREE LINE / EDGE OF VEGETATION	TREE LINE / EDGE OF VEGETATION
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CAPE COD BERM CURBING	CAPE COD BERM CURBING
GRANITE CURBING	GRANITE CURBING
GRAVEL/DIRT ROAD	GRAVEL/DIRT ROAD
STOCKADE FENCE	STOCKADE FENCE
STONE WALL	STONE WALL
WATER MAIN	WATER MAIN
WATER SERVICE	WATER SERVICE
FIRE SERVICE	FIRE SERVICE
WATER VALVE	WATER VALVE
FIRE HYDRANT	FIRE HYDRANT
FORCE MAIN	FORCE MAIN
GRAVITY SEWER LINE	GRAVITY SEWER LINE
SEWER MANHOLE	SEWER MANHOLE
GAS LINE	GAS LINE
GAS SERVICE	GAS SERVICE
GAS VALVE	GAS VALVE
BURIED POWER LINE	BURIED POWER LINE
OVERHEAD POWER LINE	OVERHEAD POWER LINE
UTILITY POLE	UTILITY POLE
GUY WIRE	GUY WIRE
ELECTRIC BOX	ELECTRIC BOX
STORM DRAIN	STORM DRAIN
UNDERDRAIN	UNDERDRAIN
ROOF DRAIN	ROOF DRAIN
FOUNDATION DRAIN	FOUNDATION DRAIN
CATCH BASIN	CATCH BASIN
DRAIN MANHOLE	DRAIN MANHOLE
SILT FENCE BARRIER	SILT FENCE BARRIER
STRAW WATTLES	STRAW WATTLES
DEEP SOIL OBSERVATION HOLE	DEEP SOIL OBSERVATION HOLE
SITE LUMINAIRE	SITE LUMINAIRE
SIGN	SIGN
SURFACE RUNOFF DIRECTION	SURFACE RUNOFF DIRECTION
STONE BOUND	STONE BOUND
DRILL HOLE	DRILL HOLE
IRON ROD	IRON ROD

ABBREVIATIONS	
EL ELEVATION	HDPE HIGH DENSITY POLYETHYLENE
INV INVERT	PVC POLYVINYL CHLORIDE
SF SQUARE FEET	RCP REINFORCED CONCRETE PIPE
AC ACRES	N/F NOW OR FORMERLY
FT FEET	VP VERNAL POOL
R RADIUS	WF WETLAND FLAG
DIA DIAMETER	TW TOP OF WALL
BIT BITUMINOUS	BW BOTTOM OF WALL
CONC CONCRETE	FG FINISH GRADE
L LENGTH	BSMT BASEMENT
S SLOPE	FF FINISH FLOOR
	BS BUILDING SEWER

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- ☐ CONSTRUCTION
- ☒ PERMIT
- ☐ CONSTRUCTION RECORD

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SENIOR RESIDENTIAL DEVELOPMENT

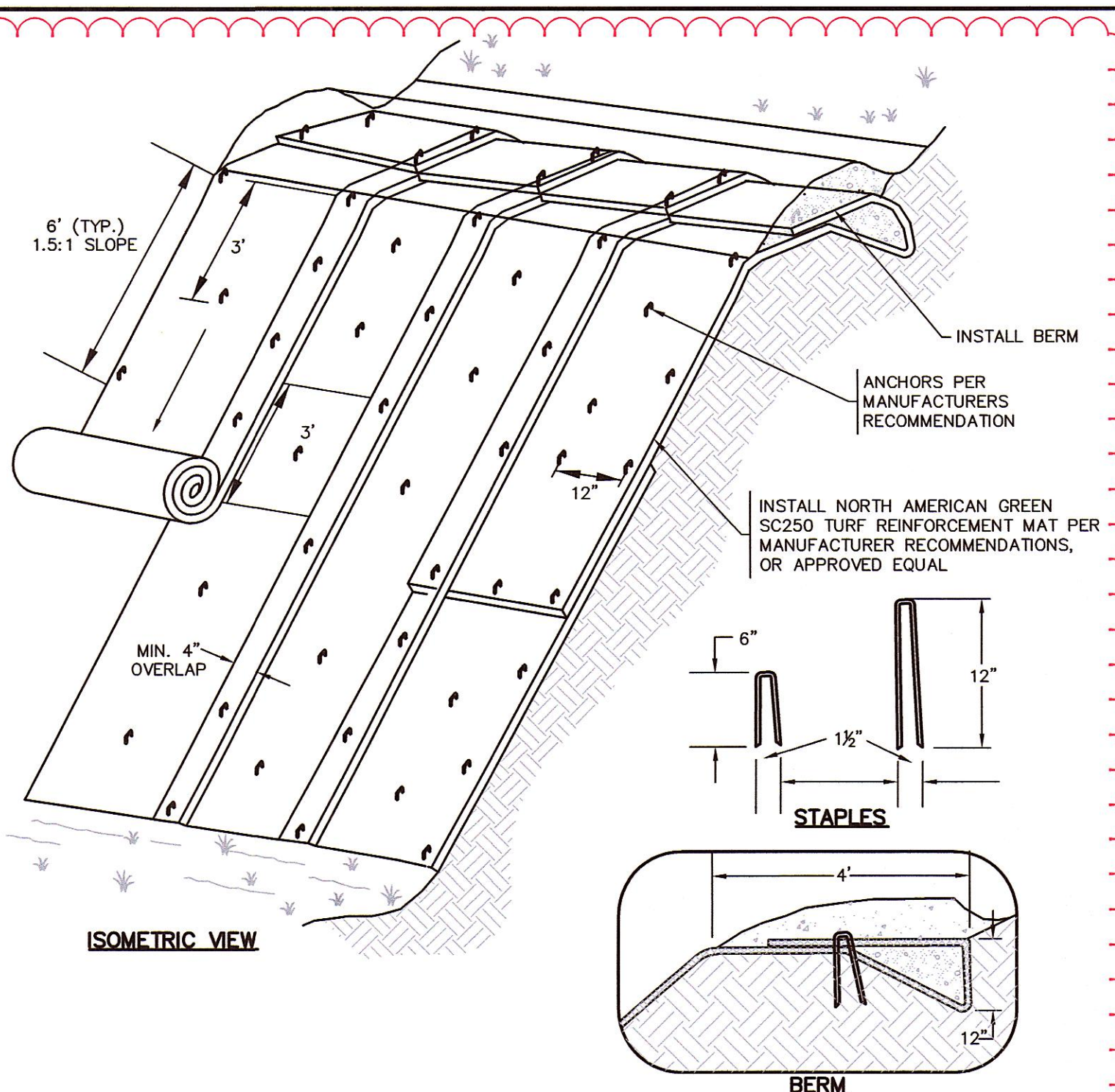
SITE LAYOUT PLAN

HAGER HOMESTEAD
336 KING STREET
LITTLETON, MA

PREPARED FOR:
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200 SUMMIT DRIVE, SUITE 210
BURLINGTON, MA 01803

DES. BY: MCL/LT	DATE: SEPTEMBER 2021	JOB 191096	C3.2
CHK. BY: NMP			

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- NOTES:**
- [1] SLOPE SURFACE SHALL BE FREE OF ROCK, CLODS, STICKS AND GRASS, MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 - [2] APPLY PERMANENT SEEDING PER MHD M6.03.1 EROSION SEED PRIOR TO PLACING MATS.
 - [3] LAY MATS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 - [4] MATS/BLANKETS SHOULD BE INSTALLED VERTICALLY DOWNSLOPE.
 - [5] TAMP SOIL OVER MAT/BLANKET.

TURF REINFORCEMENT MAT
NOT TO SCALE

PROPOSED TURF REINFORCEMENT MAT FOR AREA WITH 2:1 SLOPE

N/F
ORTHODOX CONGREGATIONAL
CHURCH OF LITTLETON
13632/660

INSTALL DRIP EDGE
(TYP OF 4)

INSTALL CONCRETE SLAB UNDER
TRASH ENCLOSURE (TYP OF 2)

INSTALL BITUMINOUS
CONCRETE PAVEMENT

INSTALL CEMENT CONCRETE
WALKWAY (TYP)

KING STREET
(AKA ROUTES 2A & 110 - (PUBLIC - 1941 STATE LAYOUT))

N/F
TOWN OF LITTLETON
SCHOOL DEPARTMENT

LEGEND

EXISTING

100.0	ELEVATION CONTOUR	100	PROPOSED
100.0	SPOT GRADE	100	SPOT GRADE
100.0	PROPERTY LINE	100	PROPERTY LINE
100.0	WETLAND DELINEATION	100	WETLAND DELINEATION
100.0	WETLAND BUFFER ZONE	100	WETLAND BUFFER ZONE
100.0	SHORELINE	100	SHORELINE
100.0	100-YEAR FLOODPLAIN LIMIT	100	100-YEAR FLOODPLAIN LIMIT
100.0	TREE LINE / EDGE OF VEGETATION	100	TREE LINE / EDGE OF VEGETATION
100.0	EDGE OF PAVEMENT	100	EDGE OF PAVEMENT
100.0	CAPE COD BERM CURBING	100	CAPE COD BERM CURBING
100.0	GRANITE CURBING	100	GRANITE CURBING
100.0	GRAVEL/DIRT ROAD	100	GRAVEL/DIRT ROAD
100.0	STOCKADE FENCE	100	STOCKADE FENCE
100.0	STONE WALL	100	STONE WALL
100.0	WATER MAIN	100	WATER MAIN
100.0	WATER SERVICE	100	WATER SERVICE
100.0	FIRE SERVICE	100	FIRE SERVICE
100.0	WATER VALVE	100	WATER VALVE
100.0	FIRE HYDRANT	100	FIRE HYDRANT
100.0	FORCE MAIN	100	FORCE MAIN
100.0	GRAVITY SEWER LINE	100	GRAVITY SEWER LINE
100.0	SEWER MANHOLE	100	SEWER MANHOLE
100.0	GAS LINE	100	GAS LINE
100.0	GAS SERVICE	100	GAS SERVICE
100.0	GAS VALVE	100	GAS VALVE
100.0	BURIED POWER LINE	100	BURIED POWER LINE
100.0	OVERHEAD POWER LINE	100	OVERHEAD POWER LINE
100.0	UTILITY POLE	100	UTILITY POLE
100.0	GUY WIRE	100	GUY WIRE
100.0	ELECTRIC BOX	100	ELECTRIC BOX
100.0	STORM DRAIN	100	STORM DRAIN
100.0	UNDERDRAIN	100	UNDERDRAIN
100.0	FOUNDATION DRAIN	100	FOUNDATION DRAIN
100.0	CATCH BASIN	100	CATCH BASIN
100.0	DRAIN MANHOLE	100	DRAIN MANHOLE
100.0	SILT FENCE BARRIER	100	SILT FENCE BARRIER
100.0	STRAW WATTLES	100	STRAW WATTLES
100.0	DEEP SOIL OBSERVATION HOLE	100	DEEP SOIL OBSERVATION HOLE
100.0	SITE LUMINAIRE	100	SITE LUMINAIRE
100.0	SIGN	100	SIGN
100.0	SURFACE RUNOFF DIRECTION	100	SURFACE RUNOFF DIRECTION
100.0	STONE BOUND	100	STONE BOUND
100.0	DRILL HOLE	100	DRILL HOLE
100.0	IRON ROD	100	IRON ROD

ABBREVIATIONS

EL	ELEVATION	HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT	PVC	POLYVINYL CHLORIDE
SF	SQUARE FEET	RCP	REINFORCED CONCRETE PIPE
AC	ACRES	N/F	NOW OR FORMERLY
FT	FEET	VP	VERNAL POOL
R	RADIUS	WF	WETLAND FLAG
DIA	DIAMETER	TW	TOP OF WALL
BIT	BITUMINOUS	BW	BOTTOM OF WALL
CONC	CONCRETE	FG	FINISH GRADE
L	LENGTH	BSMT	BASEMENT
S	SLOPE	FF	FINISH FLOOR
TC	TOP OF CURB	HP	HIGH POINT
BC	BOTTOM OF CURB	LP	LOW POINT

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☒ PERMIT ☐ CONSTRUCTION RECORD

THIS DRAWING MAY NOT SHOW CONSTRUCTION DETAILS AND SPECIFICATIONS FOR ALL PROPOSED IMPROVEMENTS, AND MAY NOT IDENTIFY ALL CONSTRUCTION WORK ITEMS/AREAS OF CONTRACTOR JURISDICTION.

PER 250 CMR 5.03(13), THE FOLLOWING ARE EXCLUDED FROM THE PROFESSIONAL ENGINEER'S RESPONSIBILITY: ALL BOUNDARY INFORMATION; LOCATION OF EXISTING STRUCTURES, TREES, UTILITIES, TOPOGRAPHY OR SIMILAR FEATURES; DESIGN OF RETAINING WALLS, PROPRIETARY EQUIPMENT. SEE EXISTING CONDITION NOTES.

NO.	DATE	BY	APP.	REVISION DESCRIPTION
6	05/18/22	LT	NMP	PERMIT MODIFICATION
5	11/02/20	MCL	NMP	PEER REVIEW COMMENTS
4	10/29/20	MCL	NMP	MISCELLANEOUS NOTE CLARIFICATION
3	10/19/20	MCL	NMP	PLANNING BOARD COMMENTS
2	07/08/20	MCL	NMP	PEER REVIEW COMMENTS
1	06/23/20	MCL	NMP	PEER REVIEW COMMENTS

GPR Engineering Solutions
for Land & Structures

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LITTLETON, MA

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MASSACHUSETTS COHOUSING, LLC.
200 SUMMIT DRIVE, SUITE 210
BURLINGTON, MA 01803

DES. BY: MCL/LT	DATE: SEPTEMBER 2021	JOB 191096	C4.1
CHK. BY: NMP			