AYER COMMONS

65 FITCHBURG ROAD AYER, MASSACHUSETTS

JUNE 14, 2022 REVISION DATE: OCTOBER 11, 2022

PREPARED FOR:

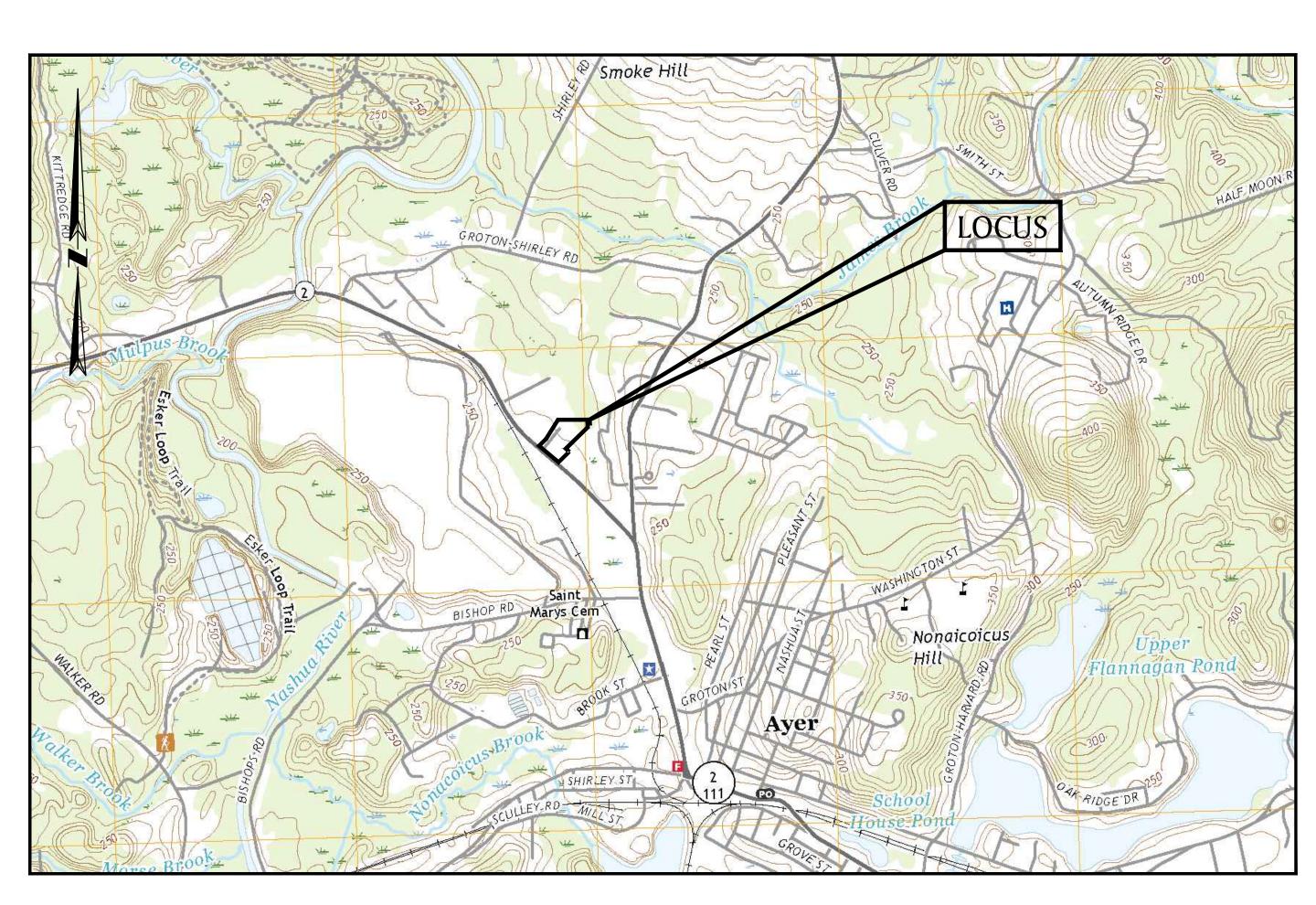


NEIGHBORHOOD OF AFFORDABLE HOUSING 143 BORDER STREET EAST BOSTON, MA

PREPARED BY:



617 896 4300



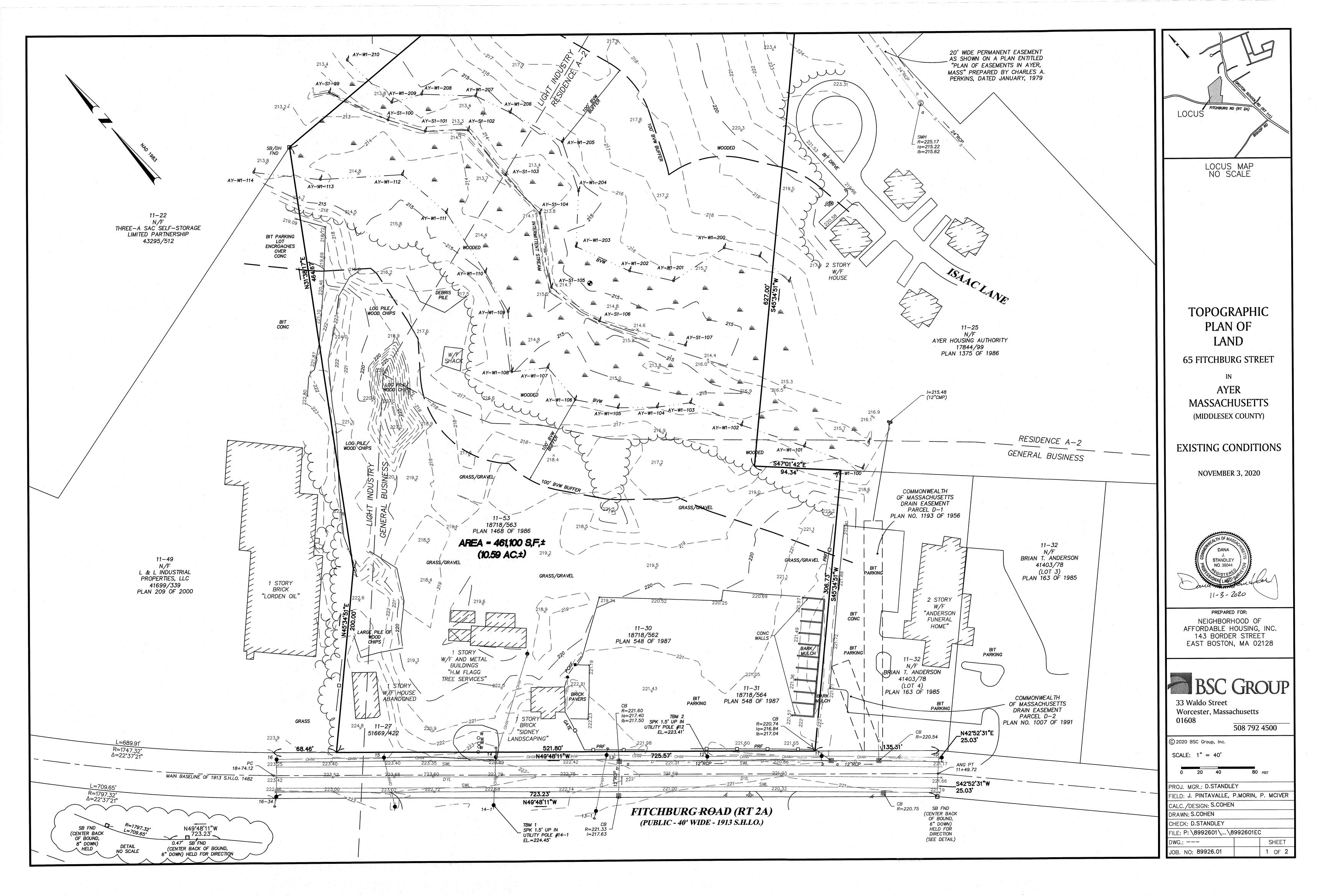
INDEX OF DRAWINGS

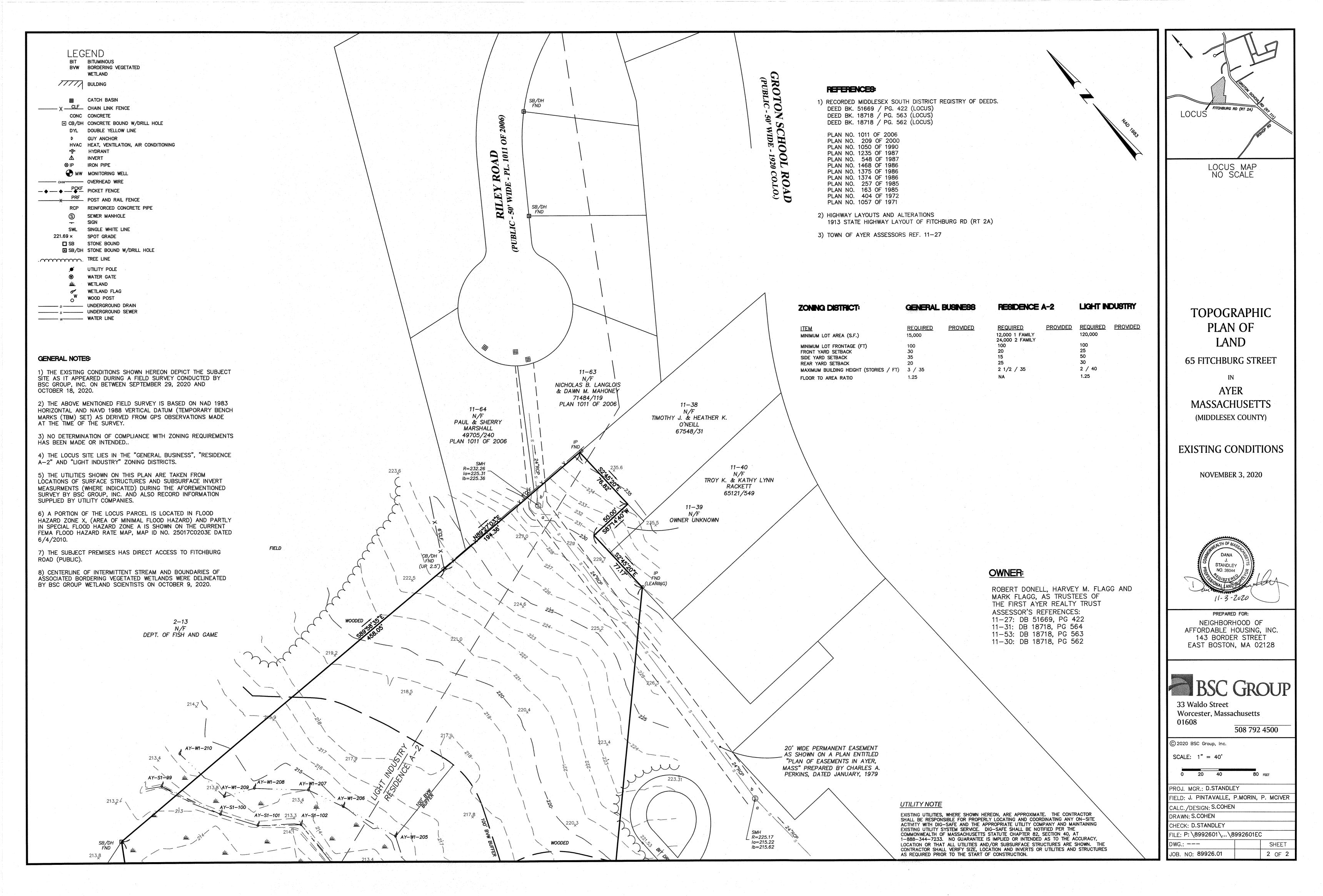
G-100	TITLE SHEET
1 of 2	EXISTING CONDITIONS
C-100	LEGEND & NOTES
C-101	EROSION & SEDIMENT
	CONTROL PLAN
C-102	LAYOUT & MATERIALS PLAN
C-103	GRADING & DRAINAGE PLAN
C-104	UTILITY PLAN
C-200 - C-203	CIVIL DETAILS

O 150 300 600 feet SCALE: 1" = 300'

JOB NO: 89926.01

SHEET G-100





LEGEND

EXISTING	DESC.	<u>PROPOSED</u>
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©	CONCRETE DRAIN MANHOLE	©
	ELECTRIC HANDHOLE	•
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© © GC	GAS GATE GRANITE CURB	G
	HANDHOLE	
	HYDRANT	1 (0)+
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	MANHOLE	
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PG □	PAGE	
	PEDESTRIAN SIGNAL	
R=	RIM ELEVATION	
<u>\$</u>	SEWER MANHOLE	S
SBC SGC	SLOPED BITUMINOUS CURB SLOPED GRANITE CURB	
0	SIGN	0
SQ. FT.	SQUARE FEET	
\bigcirc	TELEPHONE MANHOLE	\bigcirc
TOB	TOP OF BELL	G
\boxtimes	TRAFFIC CONTROL BOX	
o ^{TS}	TRAFFIC SIGNAL	
(W) [W]	WATER GATE	\bowtie
——— w ———	WATER LINE	——— w ———
—— т ——	TELEPHONE LINE	
D	DRAIN LINE	p
—— s ——	SEWER LINE	—— s ——
	SEWER FORCE MAIN	_
——————————————————————————————————————	GAS LINE ELECTRIC LINE	——— с ——— ——— UGE ———
——————————————————————————————————————	OVERHEAD WIRE	—— OHE ——
	CABLE TELEVISION CONDUIT	
	CHAIN LINK FENCE	—— X ——
	ELEC/TEL/CABLE	CTV
	VERTICAL GRANITE CURB	
		VGC
	BUILDING OVERHANG	
	ACCESSIBLE PARKING	É
	MINOR CONTOUR	59
 59	MAJOR CONTOUR	
 60	NUMBER OF PARKING SPACES	16
	WETLAND DELINEATION	
	GUARD RAIL	
	STONE WALL	
	GRADE TO DRAIN	GTD

GENERAL EROSION CONTROL NOTES:

- 1. THE PROPOSED PROJECT REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES) FROM THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) UNDER THE 2022 CONSTRUCTION GENERAL PERMIT (CGP) FOR MASSACHUSETTS. A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED FOR THE PROJECT. THE SITE CONTRACTOR AND ALL SUBCONTRACTORS ARE RESPONSIBLE FOR FOLLOWING THE CONDITIONS OF THE CGP AND SWPPP.
- 2. SEDIMENT BASINS SHALL BE APPROPRIATELY SIZED AND LOCATED/RELOCATED BY THE CONTRACTOR DURING EARTHWORK OPERATIONS.
- 3. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE INCLUDING CONSTRUCTION ENTRANCES AND PERIMETER SEDIMENT CONTROLS. SILT SHALL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS.
- 4. EROSION CONTROL SHALL, AT MINIMUM, BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROLS AS NECESSARY.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- . CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- 9. CONTRACTOR SHALL STABILIZE ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF 14 DAYS OR MORE IN ACCORDANCE WITH THE SWPPP. IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
- 10. SPRINKLE OR APPLY DUST SUPPRESSERS TO KEEP DUST WITHIN TOLERABLE LIMITS AT THE CONSTRUCTION SITE.
- 11. SILT SACS SHALL BE INSTALLED IN ALL CATCH BASINS, WITH PERIODIC CLEANING AND/OR REPLACING OF THE FILTER FABRIC, WHEN NECESSARY, THROUGHOUT THE DURATION OF THE CONSTRUCTION.

DURING CONSTRUCTION

- 1. THE CONTRACTOR SHALL INSPECT THE SITE IN ACCORDANCE WITH THE SWPPP, AND AT A MINIMUM OF ONCE A WEEK TO INSURE THAT EROSION OF SLOPES, STOCKPILES, ETC, ARE NOT OCCURRING. IN INSTANCES WHERE EROSION IS OBSERVED, SILT FENCE/HAYBALES SHALL BE INSTALLED DOWN GRADIENT OF ERODING AREAS. APPROPRIATE REPAIRS TO THE SEDIMENT CONTROLS SHALL BE MADE AS NECESSARY.
- 2. INSTALL SILT SACS UNDER ALL CATCH BASIN RIMS. SILT SACS SHALL BE INSPECTED ONCE A WEEK AND WITHIN 24 HOURS OF A 1/4 INCH OR GREATER RAIN STORM EVENT TO INSURE THAT DAMAGE TO THE SILT SACS HAS NOT OCCURRED. APPROPRIATE REPAIRS TO THE FILTER FABRIC SHALL BE MADE AS NECESSARY.
- 3. CONSTRUCTION ENTRANCES SHALL BE INSPECTED WEEKLY AND AFTER HEAVY RAINS OR HEAVY USE. THE CONSTRUCTION ENTRANCE SHALL BE TOP DRESSED WITH NEW STONE ONCE THE ENTRANCE BECOMES COMPLETELY CLOGGED WITH MUD AND SOIL PARTICLES.
- 4. SEDIMENT BEHIND PERIMETER SEDIMENT CONTROLS SHALL BE REMOVED ONCE SEDIMENT REACHES A LEVEL OF DEPOSITION EQUAL TO HALF THE HEIGHT OF THE BARRIER OR LOWER IF RECOMMENDED BY THE MANUFACTURER.

FOLLOWING CONSTRUCTION (OWNER'S RESPONSIBILITY)

- 1. CATCH BASINS SHALL BE INSPECTED FOUR TIMES A YEAR AND CLEANED TWICE PER YEAR (AT A MINIMUM). CLEANING SHOULD OCCUR IN THE EARLY SPRING FOLLOWING SNOWMELT.
- 2. STORMCEPTOR WATER QUALITY UNITS (OR APPROVED EQUAL) SHALL BE INSPECTED FOUR TIMES A YEAR AND CLEANED TWICE PER YEAR (AT A MINIMUM). CLEANING SHALL OCCUR IN THE EARLY SPRING FOLLOWING SNOWMELT.
- 3. STORMCEPTOR WATER QUALITY UNITS (OR APPROVED EQUAL) SHALL BE CLEANED IMMEDIATELY FOLLOWING ANY SPILL OF HAZARDOUS MATERIALS.
- 4. CLEANING OF CATCH BASINS AND STORMCEPTOR UNITS (OR APPROVED EQUAL) SHALL BE PERFORMED BY A VACUUM TRUCK AND MATERIALS REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 5. SUBSURFACE INFILTRATION SYSTEMS SHALL BE INSPECTED AFTER EVERY MAJOR STORM FOR THE FIRST THREE MONTHS FOLLOWING CONSTRUCTION. SUBSEQUENTLY, THESE SYSTEMS SHALL BE INSPECTED ANNUALLY.

SITE PREPARATION AND DEMOLITION:

- 1. AREAS OUTSIDE THE LIMIT OF WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER. ALL AREAS DISTURBED DURING CONSTRUCTION NOT COVERED WITH BUILDINGS, STRUCTURES, OR PAVEMENTS SHALL RECEIVE SIX INCHES OF LOAM AND SEED, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
- 2. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS AND LOCAL & STATE REQUIREMENTS.
- 3. ALL MATERIALS SHALL BE DISPOSED OF PER APPLICABLE LAWS AND REGULATIONS.
- 4. WHERE EXISTING PAVEMENT TO BE REMOVED MEETS EXISTING PAVEMENTS TO REMAIN, CONTRACTOR SHALL SAWCUT A STRAIGHT LINE UNLESS INDICATED OTHERWISE. ADDITIONALLY, EXISTING PAVEMENT SHALL BE SAWCUT, AS NECESSARY, FOR ALL PROPOSED UTILITY CONNECTIONS WITHIN THE RIGHT—OF—WAY. ALL WORK SHALL CONFORM TO STANDARD SPECIFICATIONS & DETAILS OF THE TOWN OF AYER AND, "CONSTRUCTION STANDARDS" OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASS DOT) HIGHWAY DIVISION, LATEST EDITION, AND THESE CONTRACT DOCUMENTS.
- 5. ALL EXISTING REMAINING UTILITIES SHALL BE PROTECTED, UNLESS NOTED OTHERWISE.
- 6. ALL EXISTING UTILITY STRUCTURES, CONDUITS, AND APPURTENANCES OF ANY KIND SHALL BE COMPLETELY REMOVED WITHIN THE LIMITS OF EXCAVATION FOR NEW BUILDINGS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. OUTSIDE THE LIMITS OF EXCAVATION FOR NEW BUILDINGS, ALL ABANDONED AND TO—BE—ABANDONED UTILITIES GREATER THAN 8 INCHES IN DIAMETER SHALL BE SEALED BY FILLING WITH HIGH SLUMP CONCRETE (FLOWABLE FILL) AT THE LIMIT OF EXCAVATION. ALL UTILITY STRUCTURES TO BE REMOVED SHALL HAVE THE ASSOCIATED PIPES REMOVED TO A DISTANCE OF 15 FEET FROM THE STRUCTURE AND SEALED.

GENERAL CONSTRUCTION NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO STANDARD SPECIFICATIONS & DETAILS OF THE TOWN OF AYER AND, "CONSTRUCTION STANDARDS" OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASS DOT) HIGHWAY DIVISION, LATEST EDITION, AND THESE CONTRACT DOCUMENTS.
- 2. FILL MATERIALS PLACED UNDER PROPOSED DRIVEWAYS, LOADING DOCKS AND PARKING AREAS SHALL MEET THE FILL MATERIAL GRADATION AND COMPACTION REQUIREMENTS OF THE PROJECT PLANS AND SPECIFICATIONS.
- 3. UNLESS OTHERWISE INDICATED, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 4. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 5. ALL ACCESSIBLE PARKING SPACES, WALKWAYS AND PUBLIC BUILDING ENTRANCES SHALL BE IN COMPLIANCE WITH THE COMMONWEALTH OF MASSACHUSETTS 521 AAB AND DEPARTMENT OF JUSTICE ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION. FOR ANY DISCREPANCIES OR CLARIFICATION THE CONTRACTOR SHALL CONTACT THE ENGINEER.
- 6. CONTRACTOR SHALL CONSTRUCT ALL PEDESTRIAN WAYS IN ACCORDANCE WITH ADA/AAB STANDARDS.
- 7. ALL CURB RADII SHALL BE AS NOTED.
- 8. ALL EXISTING PAVEMENT IN THE VICINITY OF THE PROPOSED WORK SHALL BE RESTORED, IF DAMAGED, AT NO ADDITIONAL COST TO THE OWNER. ALL PAVEMENT WORK SHALL BLEND WITH EXISTING PAVEMENT WITH SAWCUTS AND EMULSION APPLIED TO ALL CUT SURFACES.
- 9. ALL DUMPSTERS SHALL REQUIRE A PERMIT PER 527 CMR 34.03.
- 10. CONTRACTOR SHALL PROVIDE FULL AS—BUILT OF UTILITY WORK PRIOR TO FINAL PAYMENT. AS—BUILT PLANS SHALL BE SUBMITTED ON MYLAR AND ELECTRONICALLY UPON COMPLETION OF PROJECT.
- 11. ALL SIGNS AND PAVEMENT MARKINGS TO BE INSTALLED WITHIN THE PROJECT SITE SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

UTILITY NOTES:

- 1. LOCATIONS OF UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES AND REPAIRING ANY DAMAGE DONE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON—SITE COORDINATION WITH UTILITY COMPANIES AND PUBLIC AGENCIES AND FOR OBTAINING ALL REQUIRED PERMITS AND PAYING ALL REQUIRED FEES. IN ACCORDANCE WITH M.G.L., CHAPTER 82, SECTION 40, INCLUDING AMENDMENTS; CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING PRIOR TO SUCH EXCAVATION. CONTRACTOR SHALL ALSO CALL "DIG SAFE" AT 1(888)344—7233 NO LESS THAN 72 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS AND HOLIDAYS TO SUCH EXCAVATION. DOCUMENTATION OF REQUESTS SHALL BE PROVIDED TO PROJECT REPRESENTATIVE PRIOR TO EXCAVATION WORK.
- 2. EXISTING UTILITIES ARE A COMPILATION OF ON THE GROUND SURVEY AND DIGITIZED INFORMATION FROM PREVIOUSLY APPROVED DESIGN PLANS BASED ON FIELD OBSERVATIONS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO FIELD LOCATE EXISTING UTILITIES. CONTRACTOR SHALL CONDUCT TEST PITS, AS NEEDED, TO LOCATE EXISTING UTILITIES. ALL LOCATION WORK SHALL BE CONDUCTED PRIOR TO CONSTRUCTION AND COORDINATED WITH THE ENGINEER.
- 3. FINAL DESIGN OF PRIVATE UTILITIES INCLUDING GAS, ELECTRIC, COMMUNICATIONS AND TELEPHONE SHALL BE PROVIDED BY THE APPROPRIATE UTILITY COMPANY. THE DRY UTILITIES SHOWN HERE ARE SHOWN FOR GENERAL COORDINATION PURPOSES ONLY.
- 4. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND SHALL BE RESPONSIBLE FOR PAYING ANY FEES FOR THE ALTERATION OR ADJUSTMENT OF GAS, ELECTRIC, TELEPHONE, ETC. BY THE UTILITY COMPANY.
- 5. ALL UNDERGROUND STRUCTURES AND UTILITIES SHALL BE CAPABLE OF WITHSTANDING HS-20 WHEEL LOADS.
- 6. MEP CONSULTANT/ENGINEER IS RESPONSIBLE FOR ALL CONNECTIONS WITHIN 10-FT OF ALL PROPOSED BUILDINGS.
- 7. RIM ELEVATIONS OF PROPOSED MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS SHALL BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINISHED GRADES.
- 8. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, INVERTS AND TYPES OF EXISTING PIPES AT ALL PROPOSED POINTS OF CONNECTION PRIOR TO ORDERING MATERIALS. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATIONS AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED IN WRITING TO THE OWNER'S REPRESENTATIVE FOR THE RESOLUTION OF THE CONFLICT.
- 9. CONTRACTOR SHALL VERIFY UTILITY CONNECTIONS TO BUILDING WITH ARCHITECTURAL AND MEP DRAWINGS.
- 10. INSTALL THRUST BLOCKS AT ALL TEES AND BENDS IN ALL WATERLINES, SEWER FORCE MAINS, AND FIRE
- 11. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AT COMPLETION OF THE PROJECT.
- 12. WATER METERS SHALL BE INSTALLED IN AN UN-OBSTRUCTED AND EASILY ACCESSIBLE LOCATION.
- 13. THE CONTRACTOR SHALL SUBMIT AN AS-BUILT OF ALL UNDERGROUND UTILITIES, INCLUDING TELEPHONE, ELECTRIC, GAS, WATER, SEWER, AND STORM DRAINAGE TO THE OWNER. THE AS-BUILT SHALL INCLUDE HORIZONTAL AND VERTICAL TIES FROM ANY HANDHOLES, MANHOLES, VALVES, GATES, CLEANOUTS, TEES, ELBOWS, BENDS, ETC. TO FIXED POINTS OF REFERENCE. THE AS-BUILT SHALL BE SUBMITTED ON ONE (1) CAD DISK AND ONE (1) MYLAR.

EARTHWORK/GRADING NOTES:

- 1. RIM ELEVATIONS OF PROPOSED MANHOLES AND ASSOCIATED STRUCTURES ARE APPROXIMATE. FINAL ELEVATIONS SHALL BE SET FLUSH AND CONSISTENT WITH THE PROPOSED FINISHED GRADES.
- 2. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO EARTHWORK OPERATION AND MAINTAIN ALL EROSION CONTROL MEASURES AND SEEDED EMBANKMENTS DURING CONSTRUCTION. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH EPA'S NPDES PERMITTING FOR CONSTRUCTION ACTIVITIES, AS WELL ANY EROSION AND SEDIMENTATION CONTROL PERMIT ISSUED FOR THIS PROJECT.
- 3. THE CONTRACTOR SHALL GIVE FOURTY-EIGHT (48) HOUR NOTICE, OR AS REQUIRED BY PROJECT PERMITS, TO PERTINENT TOWN DEPARTMENTS BEFORE COMMENCING WORK IN THE FIELD.



DATE PROFESSIONAL ENGINEER

AYER COMMONS

65 FITCHBURG ROAD

IN

AYER
MASSACHUSETTS
(MIDDLESEX COUNTY)

LEGEND & NOTES

JUNE 14, 2022

REVISIONS:				
NO.	DATE	DESC.		

PREPARED FOR:

NEIGHBORHOOD OF

AFFORDABLE HOUSING

143 BORDER STREET

EAST BOSTON, MA



300 Brickstone Square Andover, Massachusetts 01810

617 896 4300

SCALE:

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FILE: DWG.:

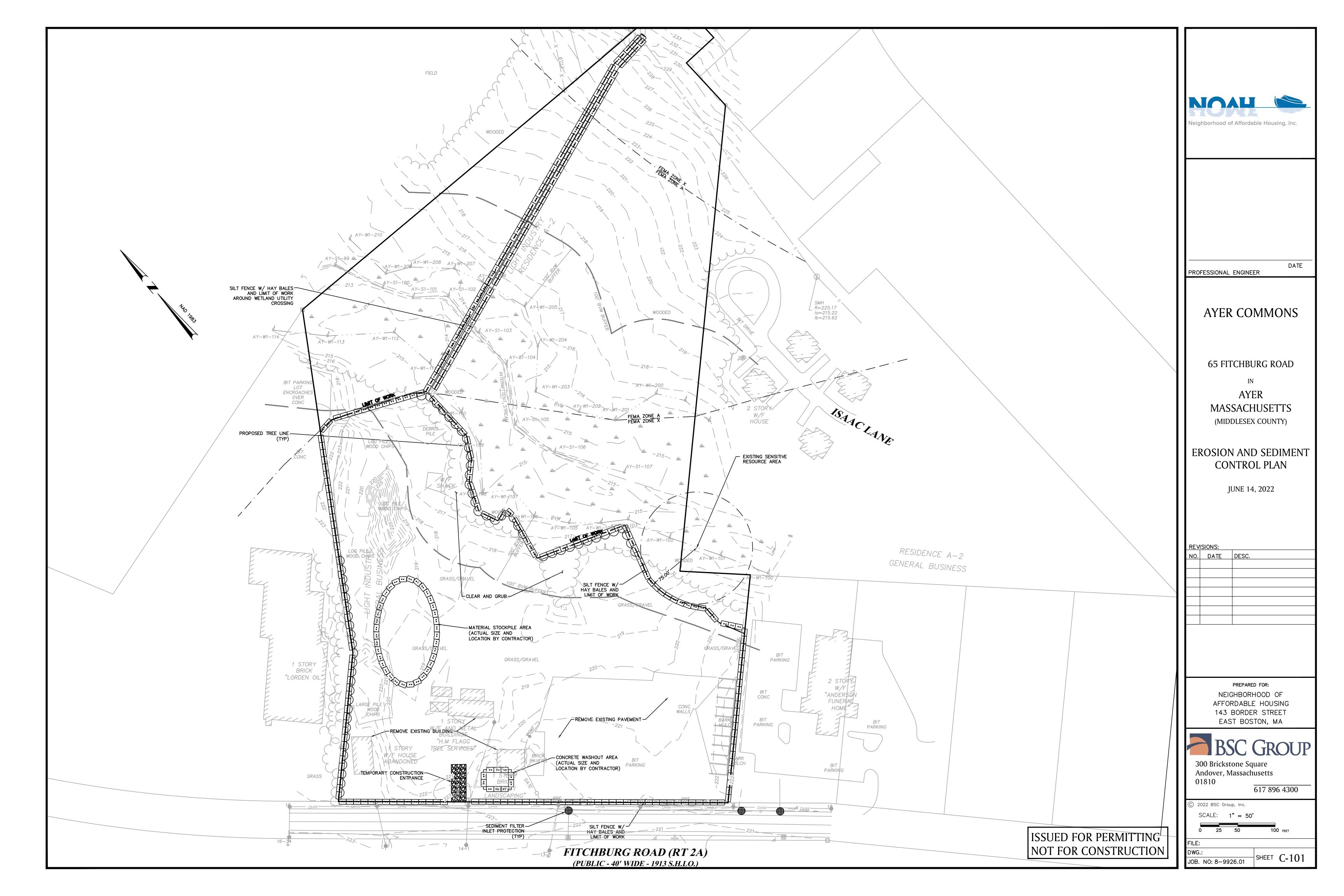
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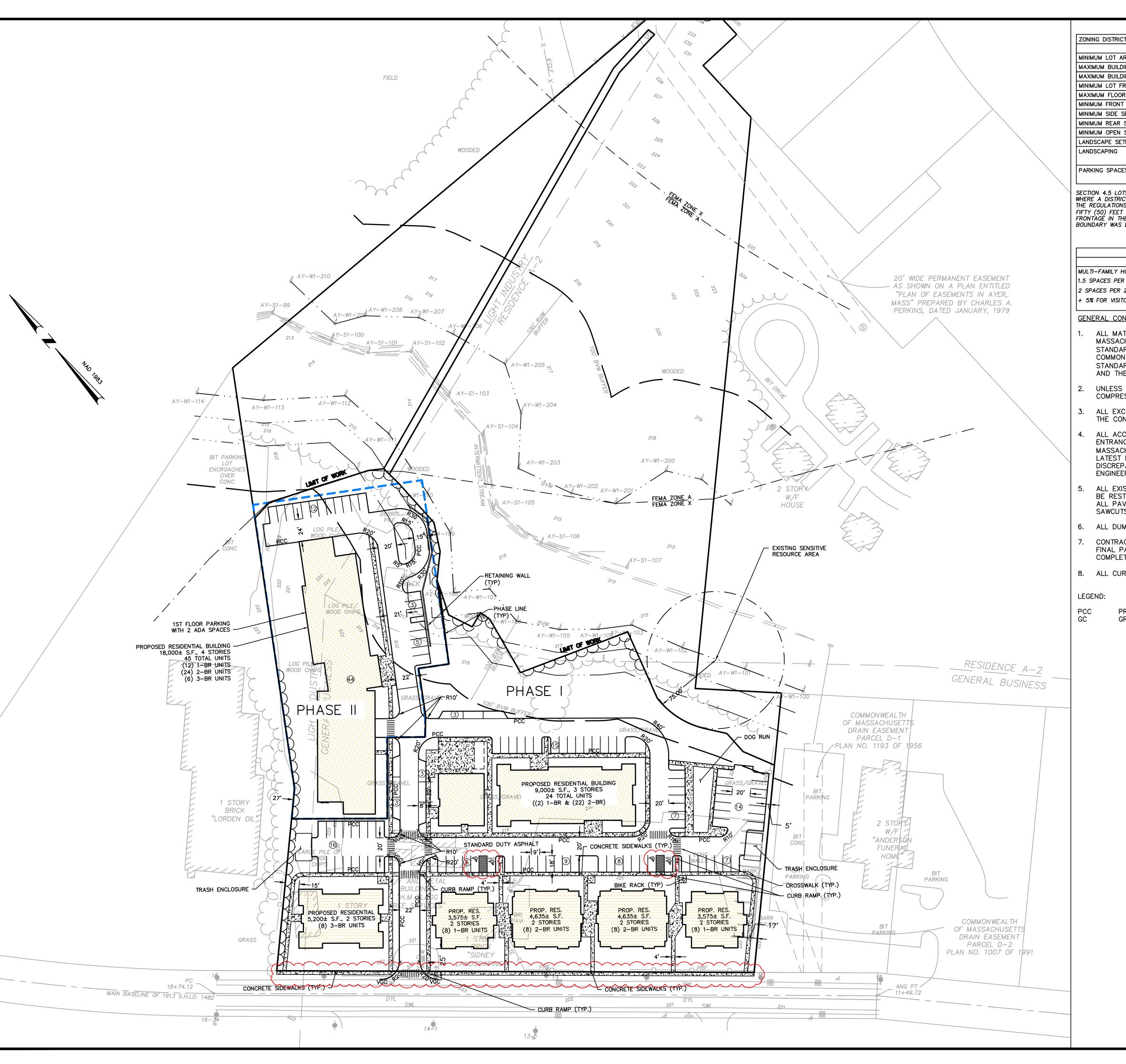
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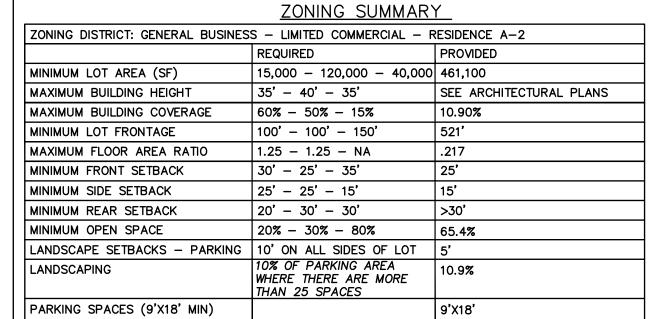
SHEET C-100

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ISSUED FOR PERMITTING NOT FOR CONSTRUCTION







SECTION 4.5 LOTS DIVIDED BY DISTRICT BOUNDARIES
WHERE A DISTRICT BOUNDARY LINE DIVIDES ANY LOT EXISTING AT THE TIME SUCH LINE IS ADOPTED,
THE REGULATIONS FOR THE LESS RESTRICTED PORTIONS OF SUCH LOT SHALL EXTEND NO MORE THAN
FIFTY (50) FEET INTO THE MORE RESTRICTED PORTION OF SUCH LOT, PROVIDED THE LOT HAS
FRONTAGE IN THE LESS RESTRICTIVE DISTRICT AND THE LOT EXISTED WHEN THE ZONING DISTRICT
BOUNDARY WAS ESTABLISHED.

REQUIRED	PROVIDED
76 2/3-BEDROOM UNITS (152) +	155 SPACES
30 1 BEDROOM UNITS (45) + 5% (10) =	
207 SPACES	
	30 1 BEDROOM UNITS (45) + 5% (10) =

GENERAL CONSTRUCTION NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION CONSTRUCTION STANDARD DETAILS HIGHWAY DIVISION (LATEST EDITION), THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES (LATEST EDITION), AND THESE CONTRACT DOCUMENTS.
- UNLESS OTHERWISE INDICATED, CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- 3. ALL EXCAVATIONS SHALL BE THOROUGHLY SECURED ON A DAILY BASIS BY THE CONTRACTOR AT THE COMPLETION OF CONSTRUCTION OPERATIONS.
- 4. ALL ACCESSIBLE PARKING SPACES, WALKWAYS AND PUBLIC BUILDING ENTRANCES SHALL BE IN COMPLIANCE WITH THE COMMONWEALTH OF MASSACHUSETTS ARCHITECTURAL ACCESS BOARD REGULATIONS (521 CMR) LATEST EDITION AND THE AMERICANS WITH DISABILITIES ACT. FOR ANY DISCREPANCIES OR CLARIFICATION THE CONTRACTOR IS TO CONTACT THE ENGINEER IN WRITING.
- ALL EXISTING PAVEMENT IN THE VICINITY OF THE PROPOSED WORK IS TO BE RESTORED, IF DAMAGED, AT NO ADDITIONAL COST TO THE OWNER. ALL PAVEMENT WORK SHALL BLEND WITH EXISTING PAVEMENT WITH SAWCUTS AND EMULSION APPLIED TO ALL CUT SURFACES.
- 6. ALL DUMPSTERS WILL REQUIRE A PERMIT PER 527 CMR 34.03.
- 7. CONTRACTOR TO PROVIDE FULL AS-BUILT OF UTILITY WORK PRIOR TO FINAL PAYMENT. AS-BUILT PLANS SHALL BE SUBMITTED ON MYLAR UPON COMPLETION OF PROJECT.
- 8. ALL CURB RADII SHALL BE 3' UNLESS OTHERWISE NOTED.

CC PRECAST CONCRETE CURB
C GRANITE CURB



DATE PROFESSIONAL ENGINEER

AYER COMMONS

65 FITCHBURG ROAD

INI

AYER MASSACHUSETTS

(MIDDLESEX COUNTY)

LAYOUT AND MATERIAL PLAN

JUNE 14, 2022

REVISIONS:

NO. DATE DESC.

1 8/15/22 TOWN COMMENTS

2 10/11/22 PLAN UPDATES

PREPARED FOR:

NEIGHBORHOOD OF

AFFORDABLE HOUSING

143 BORDER STREET

EAST BOSTON, MA



300 Brickstone Square Andover, Massachusetts 01810

617 896 4300

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SCALE: 1" = 50'

0 25 50 100 FEE

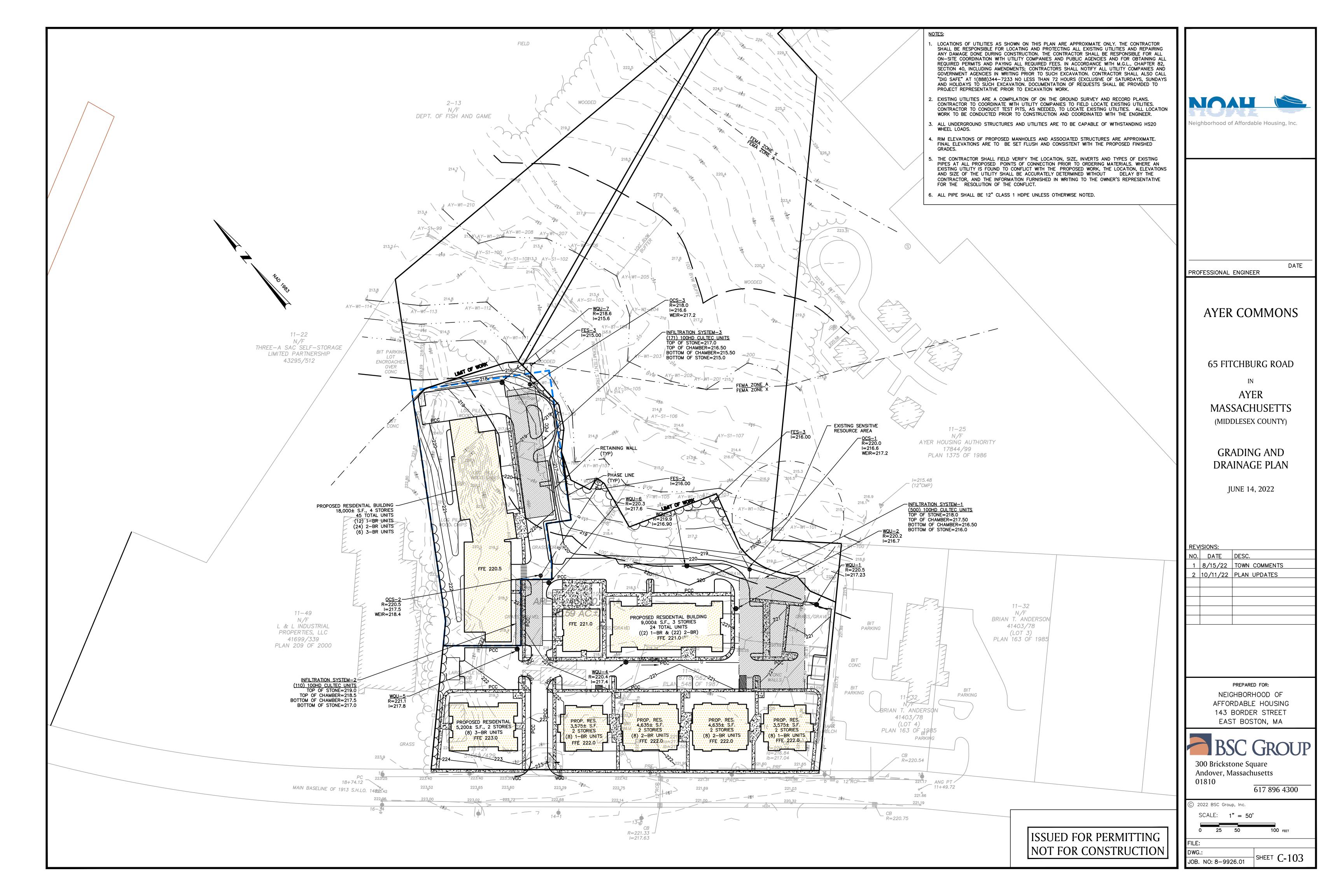
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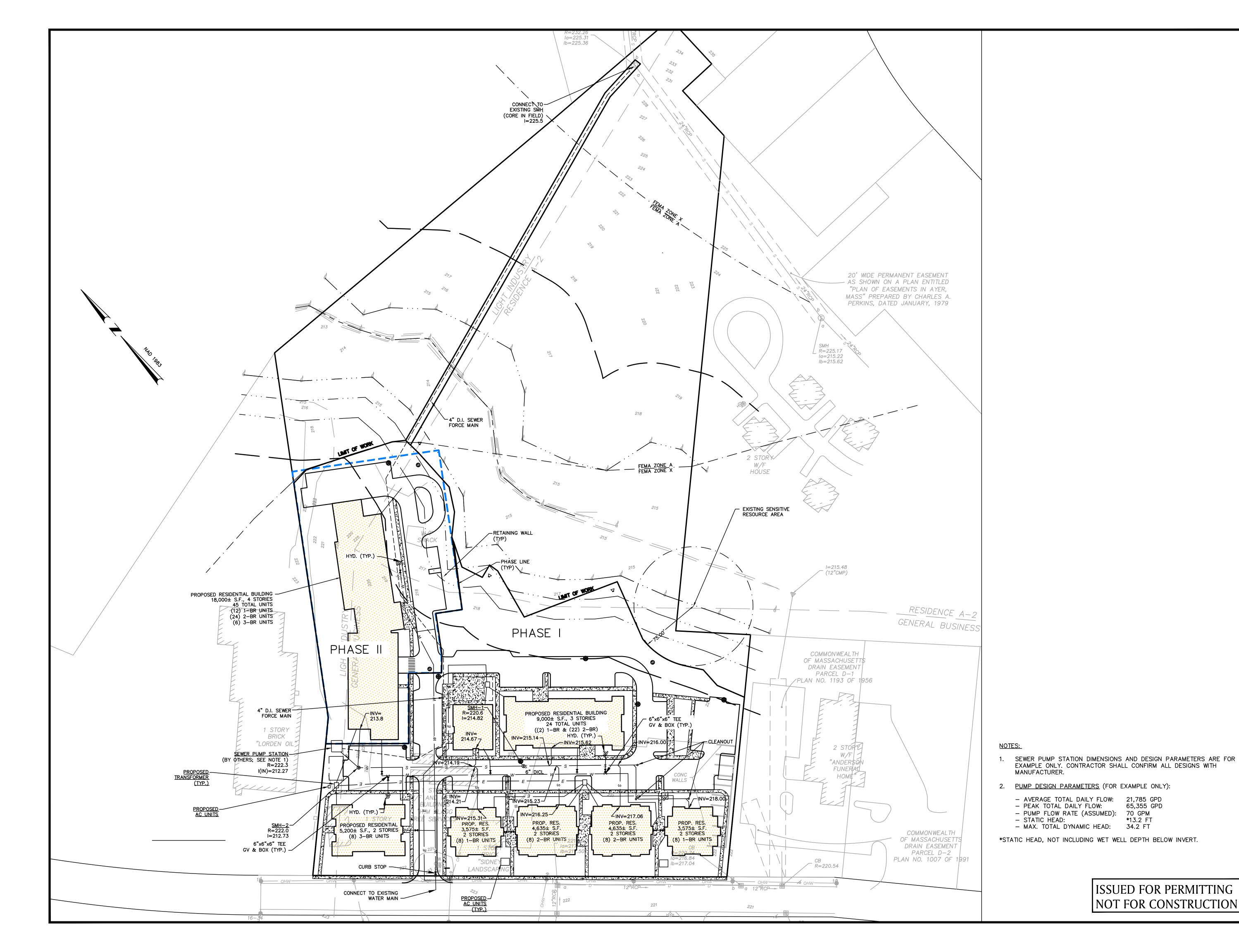
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NOT FOR CONSTRUCTION

DWG.:

JOB. NO: 8-9926.01 SHEET C-102







PROFESSIONAL ENGINEER

DATE

AYER COMMONS

65 FITCHBURG ROAD

AYER MASSACHUSETTS

(MIDDLESEX COUNTY)

UTILITY PLAN

JUNE 14, 2022

REVISIONS:

ı	NO.	DATE	DESC.
	1	8/15/22	TOWN COMMENTS
	2	10/11/22	PLAN UPDATES
ı			

PREPARED FOR: NEIGHBORHOOD OF AFFORDABLE HOUSING 143 BORDER STREET



EAST BOSTON, MA

300 Brickstone Square Andover, Massachusetts

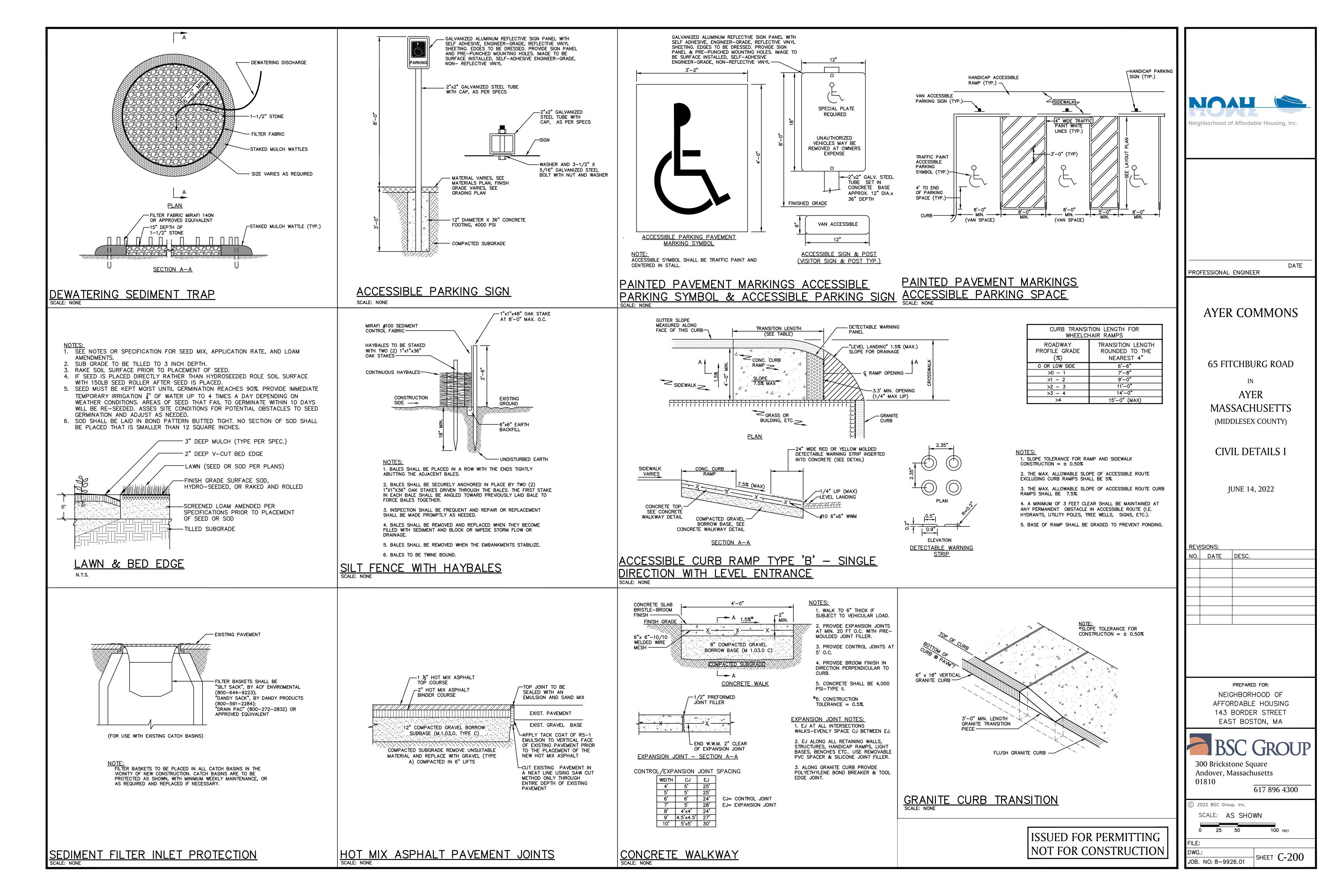
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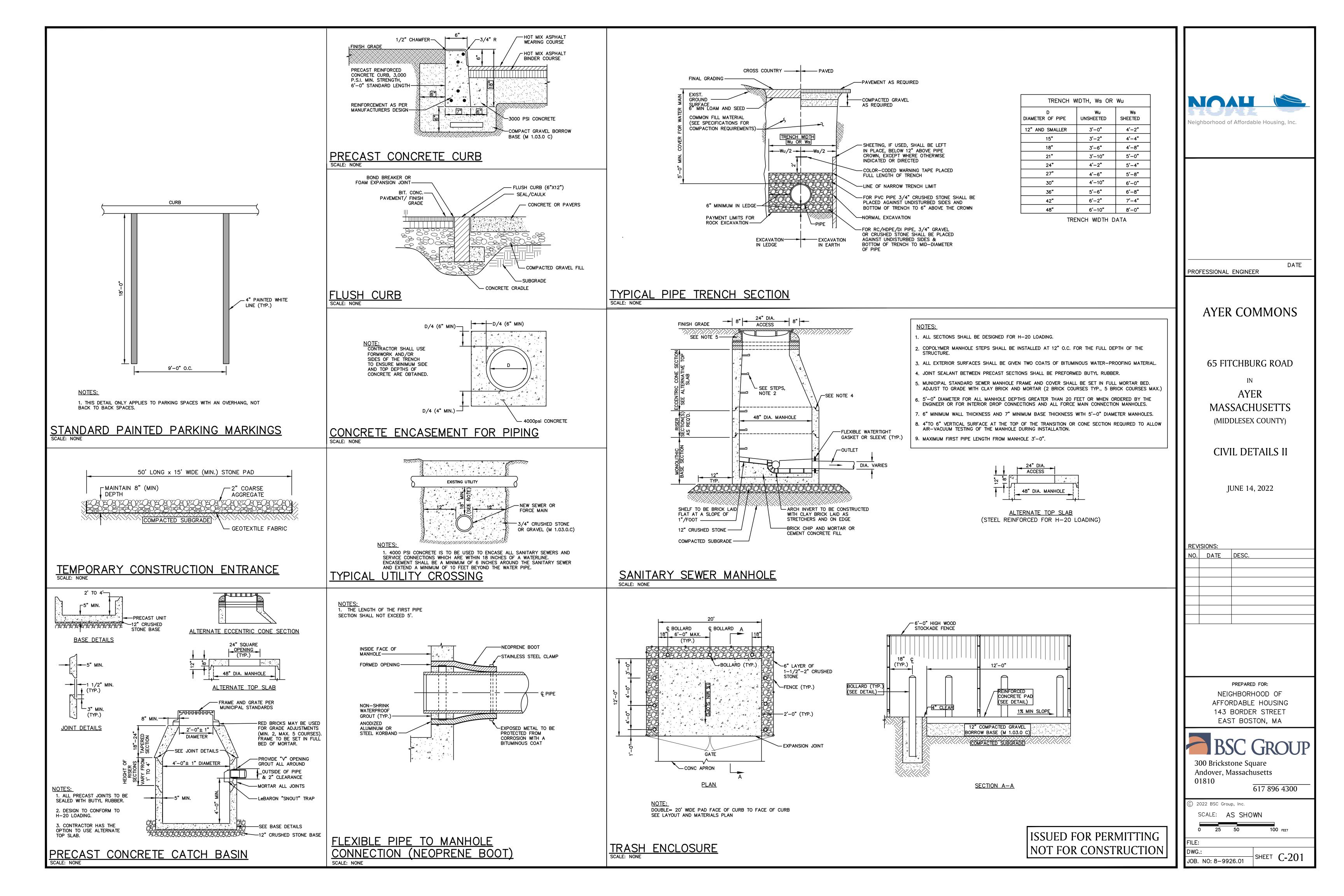
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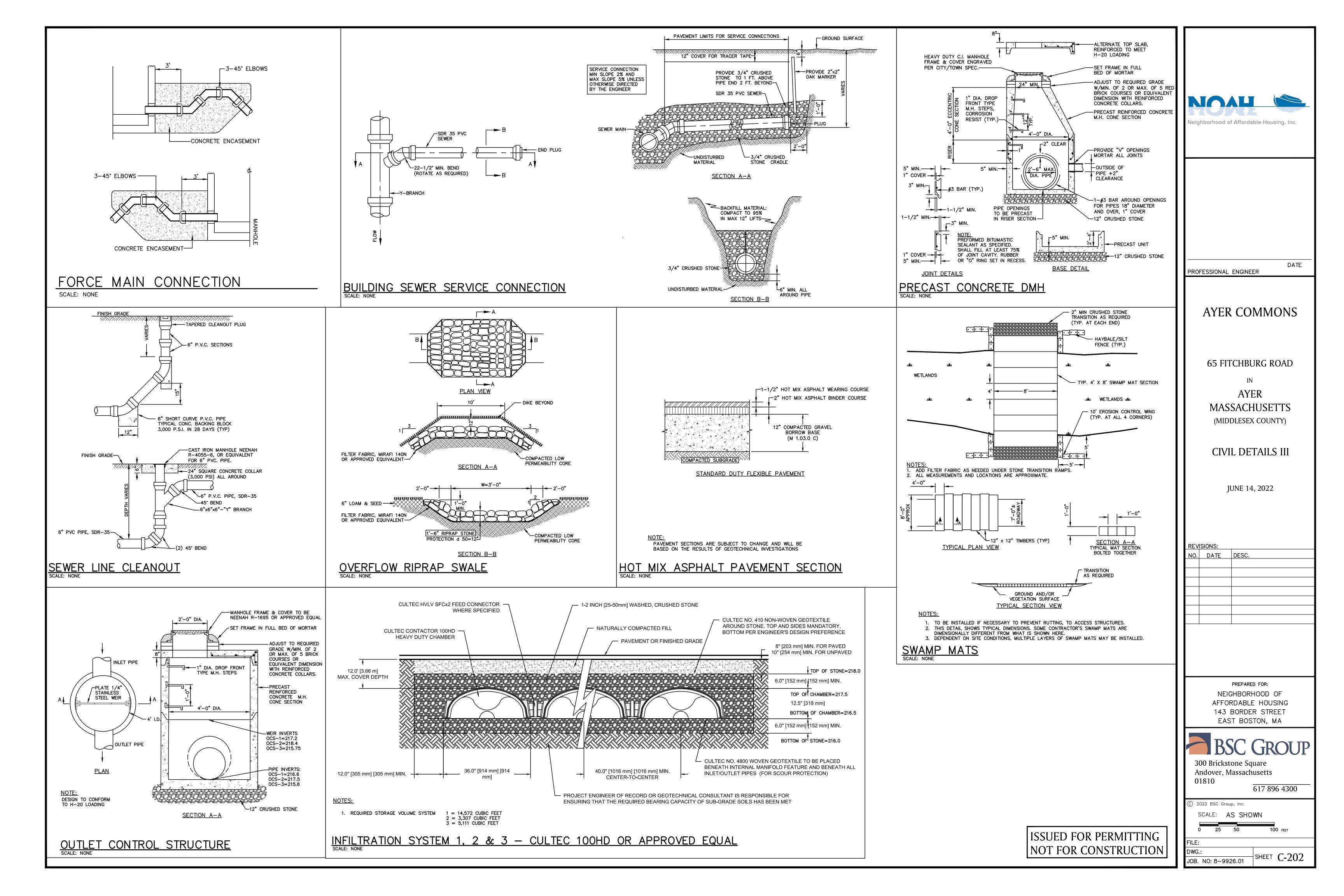
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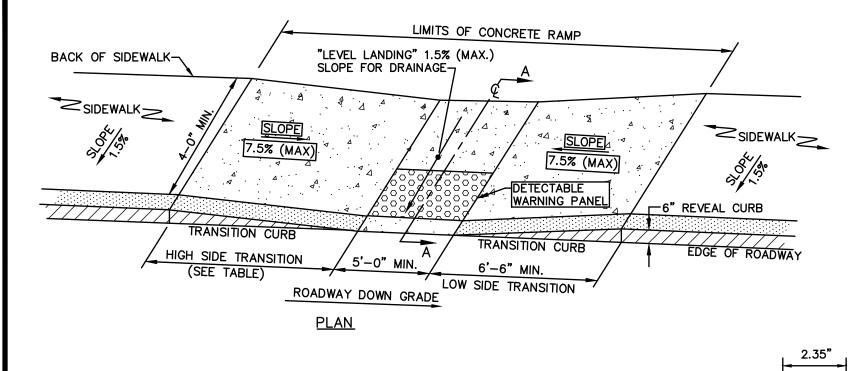
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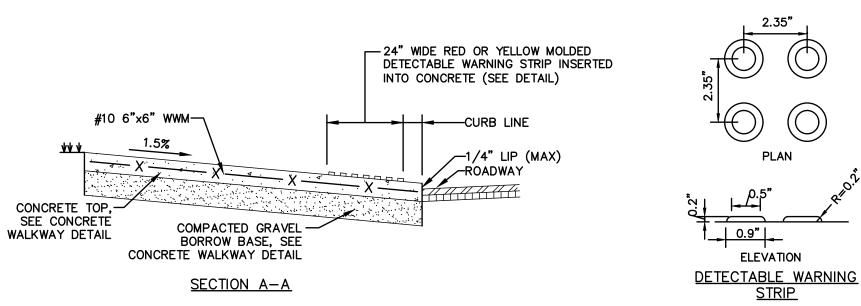
SHEET **C-104** JOB. NO: 8-9926.01









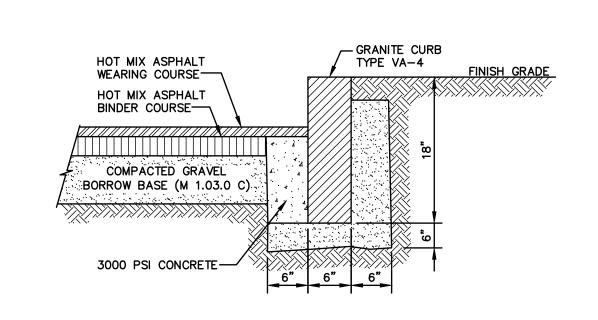


<u> ACCESSIBLE CURB RAMP TYPE 'F' — NARROW SIDEWALK</u>

CURB TRANSITION LENGTH FOR WHEELCHAIR RAMPS		
ROADWAY PROFILE GRADE (%)	HIGH SIDE TRANSITION LENGTH ROUNDED TO THE NEAREST 4"	
O OR LOW SIDE	6'-6"	
>0 - 1	7'-8"	
>1 - 2	9'-0"	
>2 - 3	11'-0"	
>3 - 4	14'-0"	
>4	15'-0" (MAX)	

1. SLOPE TOLERANCE FOR RAMP AND SIDEWALK CONSTRUCTION = \pm 0.50% 2. THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE EXCLUDING CURB RAMPS SHALL BE 5%. 3. THE MAX. ALLOWABLE SLOPE OF ACCESSIBLE ROUTE CURB RAMPS SHALL BE 7.5%. 4. A MINIMUM OF 3 FEET CLEAR SHALL BE MAINTAINED AT ANY PERMANENT OBSTACLE IN ACCESSIBLE ROUTE (I.E. HYDRANTS, UTILITY POLES, TREE WELLS, SIGNS, ETC.). 5. BASE OF RAMP SHALL BE GRADED TO PREVENT PONDING.

FIRE HYDRANT & VALVE
SCALE: NONE



FINISH GRADE

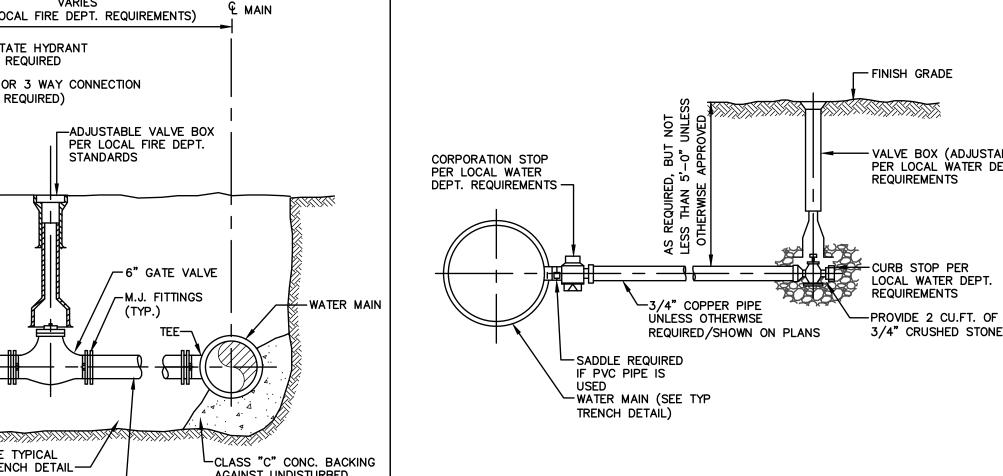
— VALVE BOX (ADJUSTABLE) PER LOCAL WATER DEPT.

REQUIREMENTS

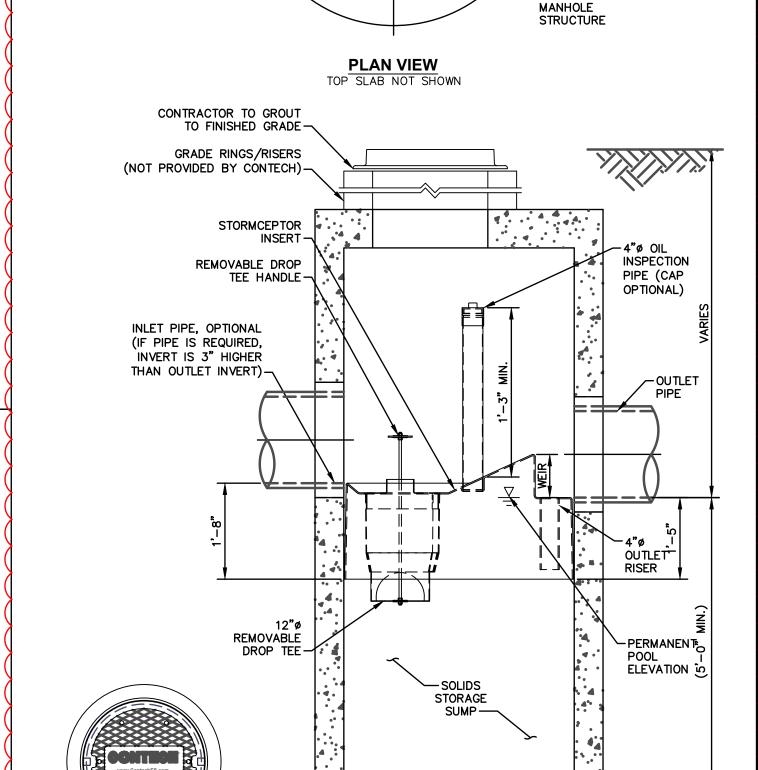
REQUIREMENTS

PROVIDE 2 CU.FT. OF

VERTICAL GRANITE CURB SCALE: NONE



WATER SERVICE CONNECTION
SCALE: NONE



-TOP SLAB ACCESS

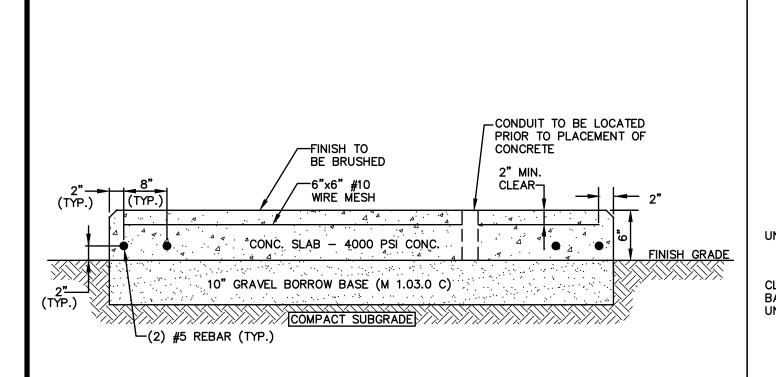
(SEE FRAME AND COVER DETAIL)

STORMCEPTOR STC450i STANDARD DETAIL
SCALE: NONE

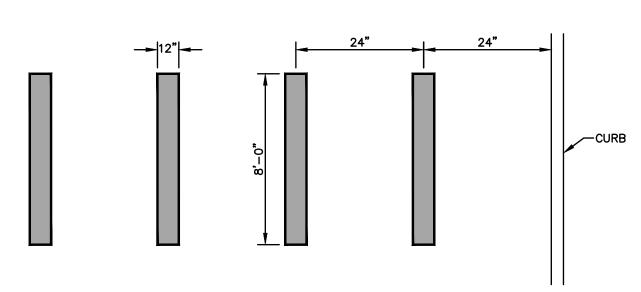
FRAME AND COVER

(MAY VARY) NOT TO SCALE

SECTION A-A

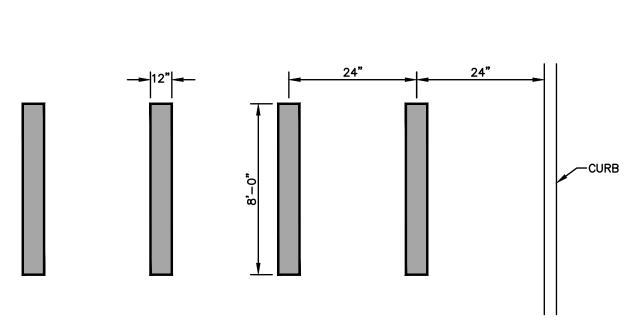


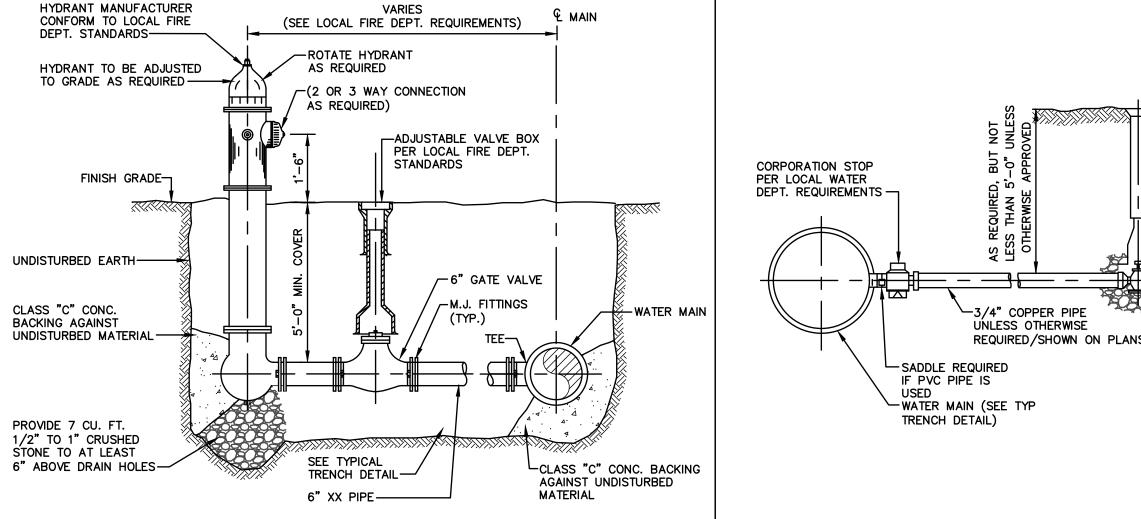




- 1. ALL TWELVE INCH (12") LINES SHALL BE APPLIED IN ONE APPLICATION, NO COMBINATION OF LINES (TWO - 6 INCH LINES) WILL BE ACCEPTED.
- 2. ALL PAVEMENT MARKING MATERIALS WHETHER THERMOPLASTIC OR WATERBORNE PAINT TO BE REFLECTORIZED WITH GLASS
- 3. LONGITUDINAL CROSSWALK LINES TO BE PARALLEL TO CURBLINE.
- 4. ALL LONGITUDINAL CROSSWALK LINES TO BE THE SAME LENGTH AND PROPERLY DRESSED.
- 5. STRIPES TO BE SOLID WHITE.

PEDESTRIAN CROSSWALK MARKINGS
SCALE: NONE





ISSUED FOR PERMITTING NOT FOR CONSTRUCTION



DATE PROFESSIONAL ENGINEER

AYER COMMONS

65 FITCHBURG ROAD

AYER MASSACHUSETTS (MIDDLESEX COUNTY)

CIVIL DETAILS IV

JUNE 14, 2022

REVISIONS: NO. DATE DESC. 1 8/15/22 TOWN COMMENTS 2 10/11/22 PLAN UPDATES

> PREPARED FOR: NEIGHBORHOOD OF AFFORDABLE HOUSING 143 BORDER STREET EAST BOSTON, MA



300 Brickstone Square Andover, Massachusetts 01810

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SCALE: AS SHOWN

FILE: DWG.:

SHEET **C-203** JOB. NO: 8-9926.01