

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT

ALTA NASHOBA VALLEY

580 MAIN STREET BOLTON, MA



APPLICANT
LIMITED DIVIDEND AFFILIATE OF WP
EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR
LEXINGTON, MA 02421



SITE ENGINEER / SURVEYOR
ALLEN & MAJOR ASSOCIATES, INC.
10 MAIN STREET
LAKEVILLE, MA 02347-1674
(508)-923-1010



ARCHITECT
MARKET SQUARE ARCHITECTS
104 CONGRESS STREET, SUITE 203
PORTSMOUTH, NH 03801

LANDSCAPE ARCHITECT
GRADY CONSULTING, LLC
71 EVERGREEN STREET, SUITE 1
KINGSTON, MA 02364



GODDARD CONSULTING

WETLAND CONSULTANT
GODDARD CONSULTING LLC
291 MAIN STREET, SUITE 8
NORTHBOROUGH, MA 01532



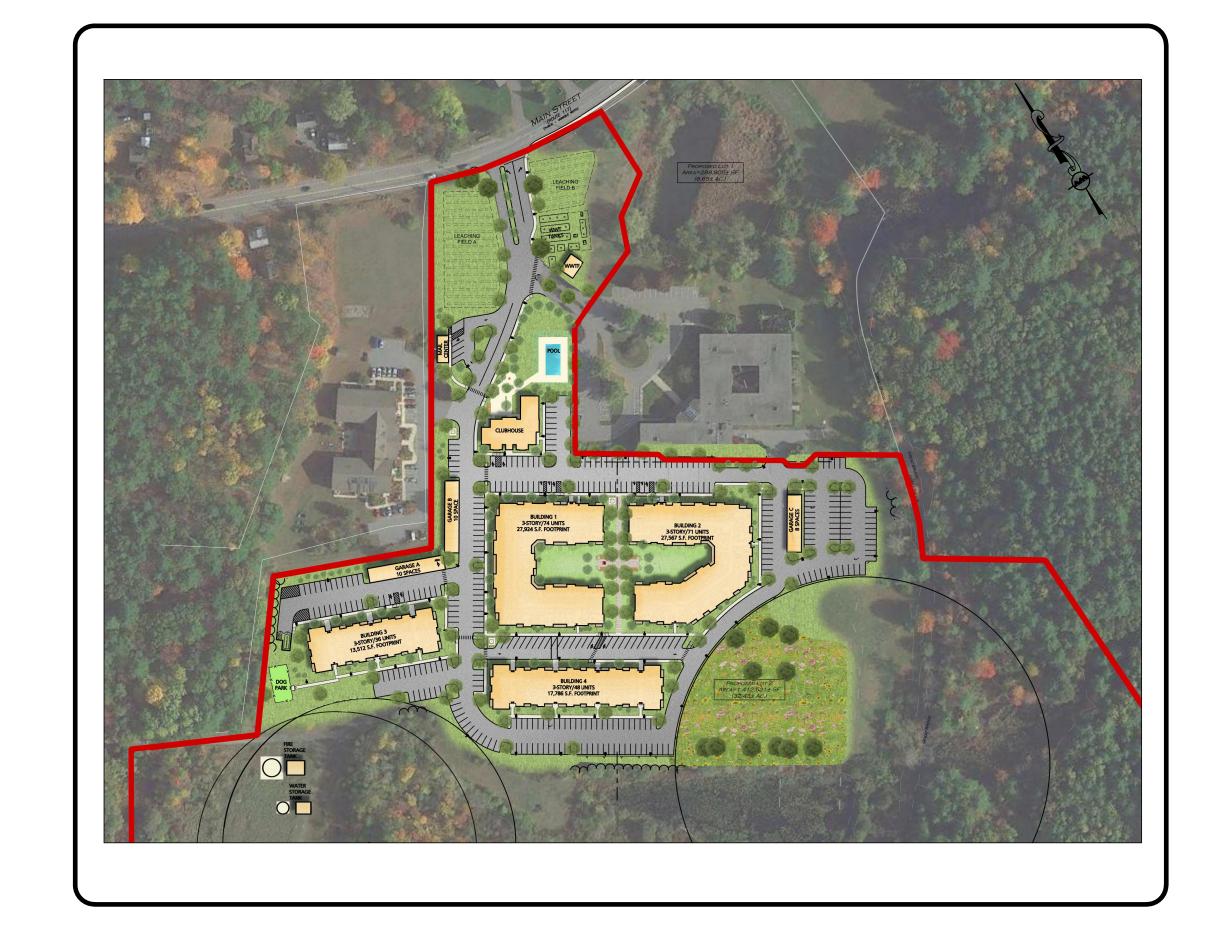
GEOTECHNICAL ENGINEER
HALEY & ALDRICH
465 MEDFORD ST, SUITE 2200
BOSTON, MA 02129



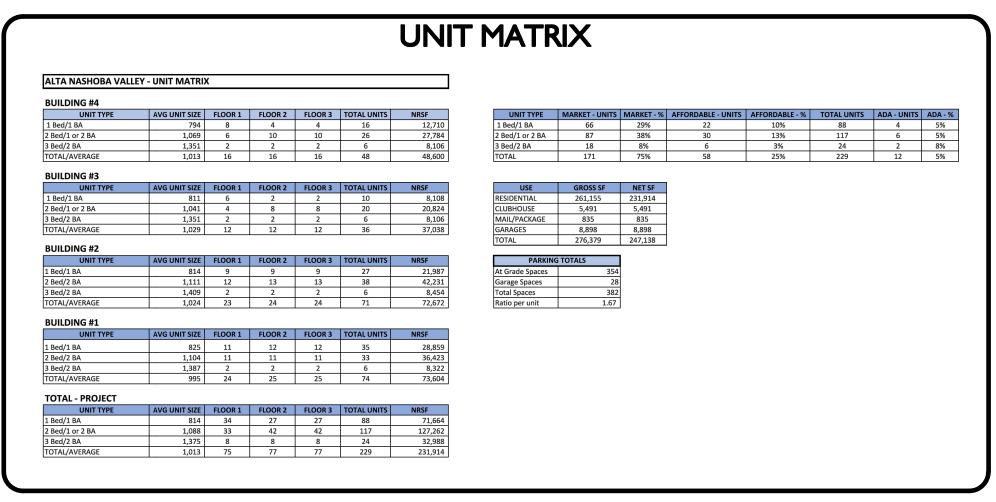
TRAFFIC ENGINEER
TEC, INC.
146 DASCOMB RD
ANDOVER, MA 01810



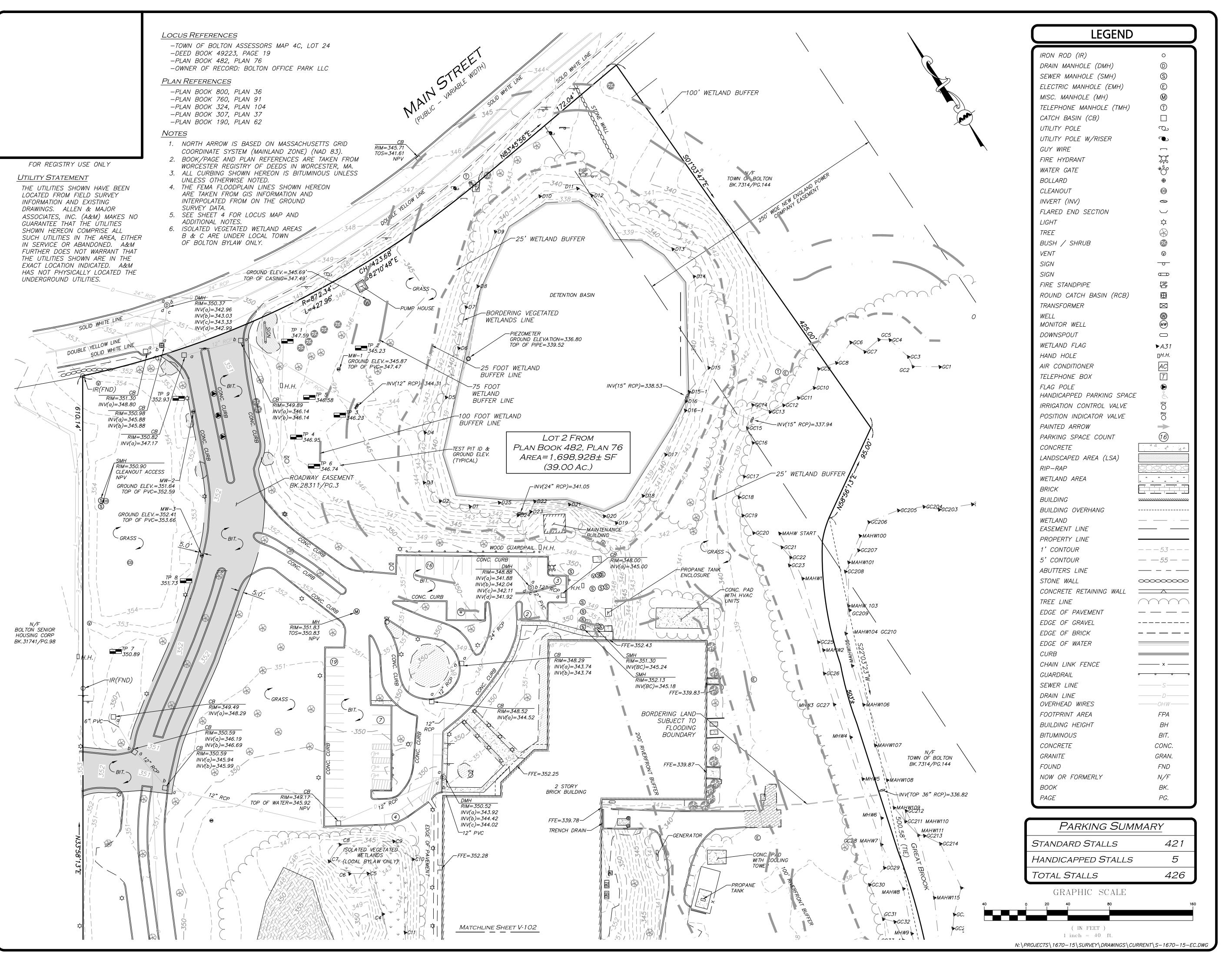
WATER/WASTEWATER ENGINEER
ON-SITE ENGINEERING, INC.
279 EAST CENTRAL STREET, PMB 241
FRANKLIN, MA 02038



| LIST OF DRAWINGS | | | | | |
|------------------------------------------|---------------------|------------|--|--|--|
| DRAWING TITLE | SHEET NO. | ISSUED | | | |
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| EROSION CONTROL PLAN | C-100 | 09-10-2021 | | | |
| OVERALL LAYOUT AND MATERIALS PLAN | C-101 | 09-10-2021 | | | |
| LAYOUT AND MATERIALS PLAN | C-102 - C-104 | 09-10-2021 | | | |
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| LANDSCAPE PLAN (BY OTHERS) | I | 09-10-2021 | | | |
| ARCH PLANS - BUILDING I (BY OTHERS) | BI.AI.0I - BI.A2.00 | 09-10-2021 | | | |
| ARCH PLANS - BUILDING 2 (BY OTHERS) | B2.A1.01 - B2.A2.00 | 09-10-2021 | | | |
| ARCH PLANS - BUILDING 3 (BY OTHERS) | B3.A1.01 - B3.A2.00 | 09-10-2021 | | | |
| ARCH PLANS - BUILDING 4 (BY OTHERS) | B4.A1.01 - B4.A2.00 | 09-10-2021 | | | |
| ARCH PLANS - CLUBHOUSE (BY OTHERS) | CH.A1.01 - CH.A2.00 | 09-10-2021 | | | |
| ARCH PLANS - GARAGES (BY OTHERS) | GA.A1.01 - GC.A2.01 | 09-10-2021 | | | |
| ARCH PLANS - MAIL AND PARCEL (BY OTHERS) | MP.A1.01 - MP.A2.01 | 09-10-2021 | | | |



PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT



WE HEREBY CERTIFY THAT:

THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR

BETWEEN JANUARY 11, 2021 AND SEPTEMBER THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988.

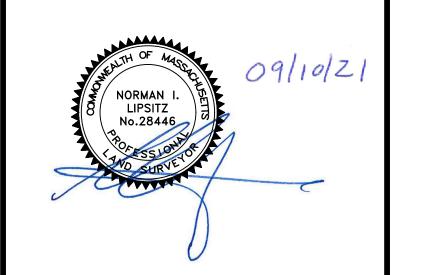
ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN. THE ABOVE CERTIFICATION IS INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS FOR

THE RECORDING OF PLANS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF BOLTON ASSESSORS INFORMATION. THE ABOVE IS CERTIFIED TO THE BEST OF

MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF TO THE ABOVE NAMED PARTIES AND NO OTHERS.

ALLEN & MAJOR ASSOCIATES, INC.

PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC.



2. |09/10/2021| VARIOUS REVISIONS 09/03/2021 TEST PITS AND MONITORING WELLS REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC 91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421 PROJECT:

> 580 MAIN STREET BOLTON, MA

PROJECT NO. 1670-15 DATE: 05/03/2021 1" = 40' DWG. NAME: S-1670-15-EC SCALE: **DRAFTED BY:** KAC | CHECKED BY:



nvironmental consulting • landscape architecture www.allenmajor.com 100 COMMERCE WAY WOBURN MA 01801-8501

> TEL: (781) 935-6889 FAX: (781) 935-2896

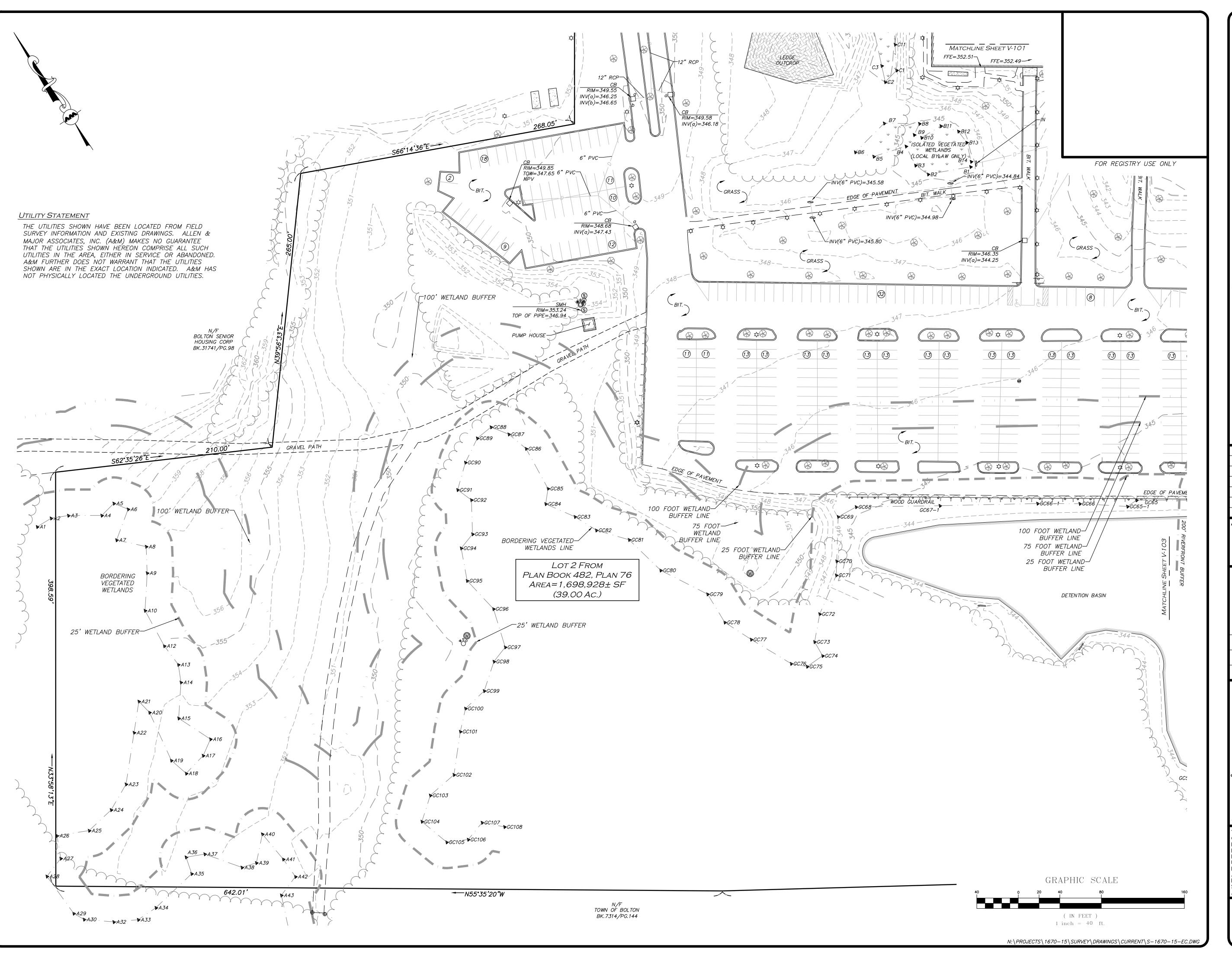
WOBURN, MA ◆ LAKEVILLE, MA ◆ MANCHESTER,

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DRAWING TITLE:

SHEET No. V-101 **EXISTING CONDITIONS**

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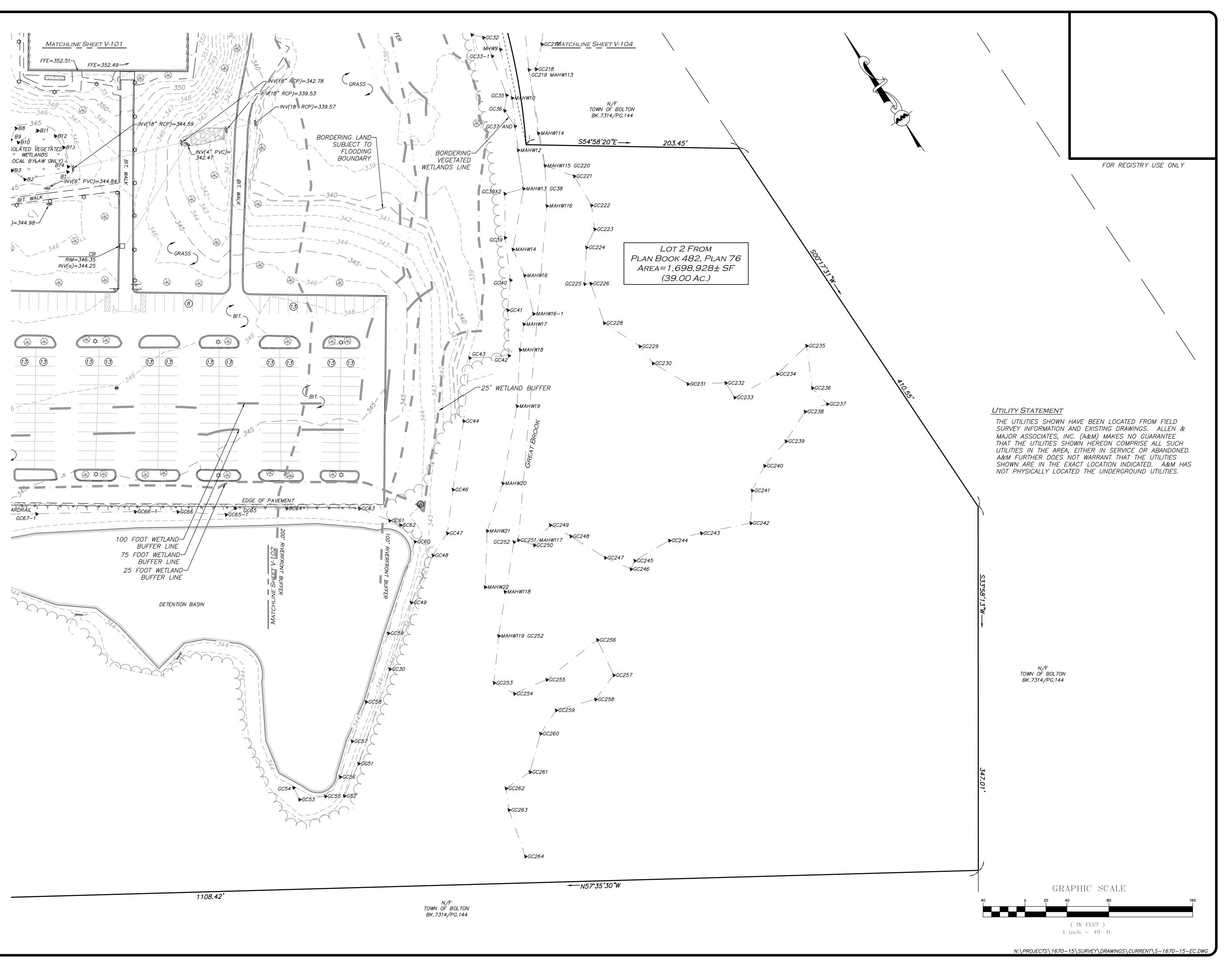


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EXISTING CONDITIONS

V-102

WE HEREBY CERTIFY THAT: THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN JANUARY 11, 2021 AND SEPTEMBER THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988. ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN. THE ABOVE CERTIFICATION IS INTENDED TO MEET REGISTRY OF DEED REQUIREMENTS FOR THE RECORDING OF PLANS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF BOLTON ASSESSORS INFORMATION. THE ABOVE IS CERTIFIED TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF TO THE ABOVE NAMED PARTIES AND NO OTHERS. ALLEN & MAJOR ASSOCIATES, INC. PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC. 09/10/21 ' NORMAN I No.28446 2. |09/10/2021| VARIOUS REVISIONS 09/03/2021 TEST PITS AND MONITORING WELLS REV DATE DESCRIPTION APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC 91 HARTWELL AVENUE, 3RD FLOOR LEXINGTON, MA 02421 PROJECT: 580 MAIN STREET BOLTON, MA 1670-15 DATE: PROJECT NO. 05/03/2021 1" = 40' DWG. NAME: S-1670-15-EC SCALE: DRAFTED BY: KAC | CHECKED BY: ALLEN & MAJOR ASSOCIATES, INC. civil engineering • land surveying environmental consulting • landscape architecture www.allenmajor.com 100 COMMERCE WAY WOBURN MA 01801-8501 TEL: (781) 935-6889 FAX: (781) 935-2896 WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, N THIS DRAWING HAS BEEN PREPARED IN DIGITAL FORMA CLIENT/CLIENT'S REPRESENTATIVE OR CONSULTANTS MAY BE PROVIDED COPIES OF DRAWINGS AND SPECIFICATIONS FOR HIS/HER INFORMATION AND/OR SPECIFIC USE ON THIS PROJECT. DUE TO THE POTENTIAL THAT THE PROVIDED INFORMATION MAY BE MODIFIE UNINTENTIONALLY OR OTHERWISE, ALLEN & MAJOR ASSOCIATE INC. MAY REMOVE ALL INDICATION OF THE DOCUMENT AUTHORSHIP ON THE DIGITAL MEDIA. PRINTED REPRESENTATIONS OF PORTABLE DOCUMENT FORMAT OF THE DRAWINGS AND SPECIFICATIONS ISSUED SHALL BE THE ONLY RECORD COPIES OF ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT. SHEET No. **DRAWING TITLE:**



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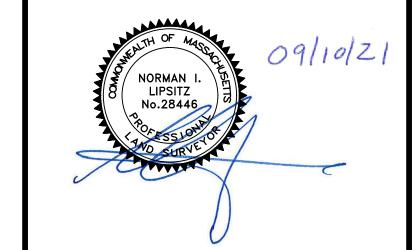
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2. | 09/10/2021 | VARIOUS REVISIONS 1. | 09/03/2021 | TEST PITS AND MONITORING WELLS REV DATE DESCRIPTION

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> 580 MAIN STREET BOLTON, MA

1670-15 DATE: PROJECT NO. 1" = 40' DWG. NAME: S-1670-15-EC

DRAFTED BY: KAC | CHECKED BY:



civil engineering ◆ land surveying environmental consulting ♦ landscape architecture www.allenmajor.com 100 COMMERCE WAY

WOBURN MA 01801-8501 TEL: (781) 935-6889 FAX: (781) 935-2896

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, N

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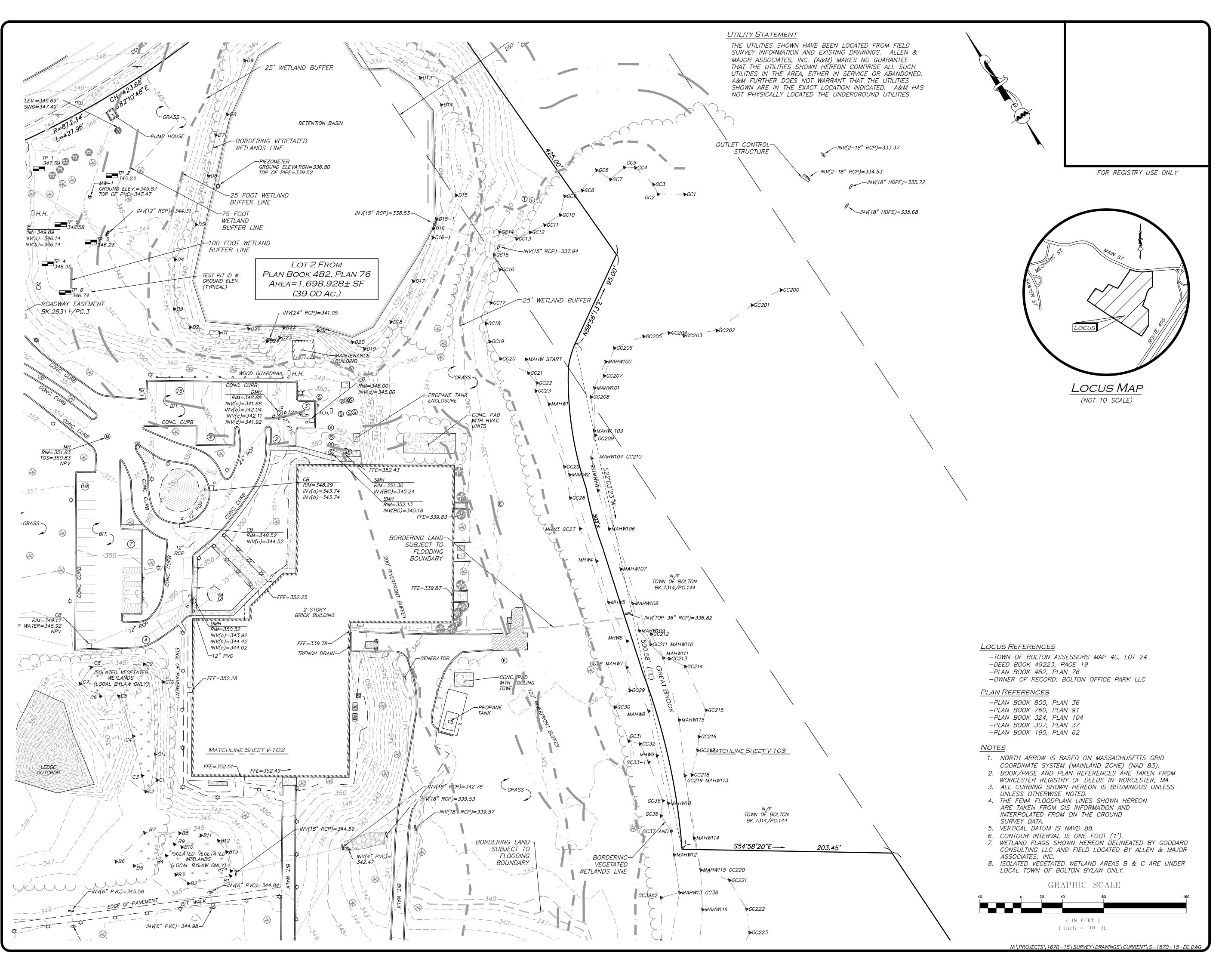
DRAWING TITLE:

SHEET No.

05/03/2021

V-103 **EXISTING CONDITIONS**

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WE HEREBY CERTIFY THAT:

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3, 2021

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2. 09/10/2021 VARIOUS REVISIONS
1. 09/03/2021 TEST PITS AND MONITORING WELLS

REV DATE DESCRIPTION

APPLICANT\OWNER:
LIMITED DIVIDEND AFFILIATE OF
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91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
PROJECT:

580 MAIN STREET BOLTON, MA

PROJECT NO. 1670-15 DATE: 05/03/2021

SCALE: 1" = 40' DWG. NAME: S-1670-15-EC

DRAFTED BY: KAC CHECKED BY:

PREPARED BY:



ASSOCIATES, INC.

civil engineering \blacklozenge land surveying environmental consulting \blacklozenge landscape architecture w w w . a l l e n m a j o r . c o m

100 COMMERCE WAY

100 COMMERCE WAY WOBURN MA 01801-8501 TEL: (781) 935-6889 FAX: (781) 935-2896

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V-104

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ING TITLE:

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EXISTING CONDITIONS

- 2. ZONING DISTRICT IS LIMITED BUSINESS DISTRICT.
- 3. THE PROPERTY LOCATED AT 580 MAIN STREET, BOLTON, MASSACHUSETTS IS SUBJECT TO AN APPROVAL NOT REQUIRED SUBDIVISION PROCESS. SITE WORK SHOWN ON THE SUBSEQUENT DRAWINGS IS SUBJECT TO ANR LOT 2 ONLY AS PART OF A COMPREHENSIVE PERMIT APPLICATION TO THE ZONING BOARD OF APPEALS. ANY WORK SHOWN ON ANR LOT 1 IS FOR COORDINATION PURPOSES ONLY AND SHALL BE DESIGNED AND PERMITTED BY OTHERS AS REQUIRED BY THE TOWN OF BOLTON REGULATIONS.
- 4. ANR LOT 2 SIZE: 32.43± ACRES
- 5. OVERALL LOT SIZE: 39.08± ACRES.
- 6. DURING CONSTRUCTION, ALL VEHICLES MUST BE PARKED ON SITE.
- 7. DURING CONSTRUCTION, ALL STAGING AND DELIVERIES WILL OCCUR ON SITE.
- 3. THIS PROJECT WILL BE SERVED BY PRIVATE WELL, PRIVATE ON—SITE SEWER, TELEPHONE, CABLE AND ELECTRIC. ALL UTILITY LINES WILL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DIGSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AT NO ADDITIONAL COST.
- 10. ALL PROPOSED MAIN BUILDING ENTRANCES AND WALKS SHALL BE HANDICAP ACCESSIBLE PER FEDERAL ADA & MAAAB REGULATIONS.
- 11. ALL SITE WORK DONE FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE SITE PLANS AND SITE WORK SPECIFICATIONS FOR CONSTRUCTION.
- 12. ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTIES DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AND RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- 13. ALL PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AND RESTORED BY A SURVEYOR REGISTERED IN THE STATE OF MASSACHUSETTS AT THE CONTRACTOR'S EXPENSE.
- 14. ALL APPLICABLE PERMITS AND AN APPROVED SET OF PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRE-CONSTRUCTION MEETING THE WITH THE APPROPRIATE CITY DEPARTMENTS, THE APPROPRIATE UTILITY COMPANIES, THE OWNER AND OWNER'S REPRESENTATIVE. THE MEETING SHALL TAKE PLACE PRIOR TO THE START OF CONSTRUCTION AND THE CONTRACTOR MUST PROVIDE 48 HOURS NOTICE TO ALL ATTENDEES PRIOR TO THE START OF THE MEETING.
- 16. APPROPRIATE WARNING SIGNS, MARKERS, BARRICADES AND/OR FLAG MEN SHALL BE PROVIDED TO REGULATE TRAFFIC. CONSTRUCTION TRAFFIC CONTROLS SHALL BE IMPLEMENTED AND OPERATED ACCORDING TO THE MASS DEPARTMENT OF TRANSPORTATION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE LOCAL AUTHORITY.
- 17. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ADDITIONAL BENCHMARK INFORMATION IF REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING BENCHMARKS. IF IT IS NECESSARY TO RELOCATE A BENCHMARK, IT SHALL BE RELOCATED BY A MASSACHUSETTS PROFESSIONAL LAND SURVEYOR AND DONE SO AT THE CONTRACTOR'S EXPENSE.
- 18. ALL BUILDING DIMENSIONS ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- 19. ALL RADII ARE 3 FEET UNLESS OTHERWISE NOTED.
- 20. ALL PARKING LOT AND AISLE DIMENSIONS ARE TAKEN FROM THE FACE OF CURB AND INDICATE EDGE OF PAVEMENT.
- 21. CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST.
- 22. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
- 23. DISPOSAL OF ALL DEMOLISHED MATERIALS INCLUDING EXISTING MISC. CONSTRUCTION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS AT NO ADDITIONAL COST.
- 24. ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER TREATMENT ARE TO RECEIVE SIX INCHES (6") MINIMUM OF TOPSOIL & SEED, AND BE MAINTAINED UNTIL ESTABLISHED & ACCEPTED OR AS SPECIFIED BY LANDSCAPE ARCHITECT.
- 25. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE PROTECTED, ABANDONED, REMOVED OR RELOCATED AS NECESSARY.
- 26. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SAME.
- 27. THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AND DISCONNECTION AT EXISTING UTILITY.

- 28. ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARKS SHOWN ON THE EXISTING CONDITIONS SITE PLAN AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUNDBREAKING.
- 29. CONTRACTOR IS RESPONSIBLE FOR DIGGING TEST HOLES AND VERIFYING ANY EXISTING UTILITY OR STRUCTURE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT BASED ON EXACT LOCATION OF EXISTING UTILITIES, THERE ARE NO CONFLICTS BETWEEN THE EXISTING AND THE PROPOSED UTILITIES/DRAINAGE STRUCTURES.
- 30. THE CONTRACTOR SHALL ADHERE TO ALL PERMIT CONDITIONS PROVIDED BY ALL GOVERNING AGENCIES AT NO ADDITIONAL COSTS. THIS INCLUDES BUT IS NOT LIMITED TO BUILDING PERMITS, DEMOLITION PERMITS, PLUMBING AND ELECTRICAL PERMITS. PERMITS FROM THE PLANNING BOARD, CONSERVATION COMMISSION AND ZONING BOARD OF APPEALS.
- 31. DURING EXCAVATION, ANY EXISTING EARTH CUT MATERIALS THAT DO NOT MEET THE "ORDINARY FILL" SPECIFICATIONS OR "LOAM" SPECIFICATIONS AND CANNOT BE REUSED SHALL BE REMOVED OFFSITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. MATERIAL WHICH DOES NOT MEET THE SPECIFICATION INCLUDES ALL BOULDERS, ROCKS, CONSTRUCTION DEBRIS, AND MISC. MATERIAL. PRIOR TO REUSE, CONTRACTOR TO PROVIDE TESTING REPORT OF SIEVE ANALYSIS TO ENGINEER FOR APPROVAL. CONTRACTOR CAN AMEND MATERIALS AND CONTINUE TO RETEST AS NECESSARY AT NO ADDITIONAL COST TO OWNER. AFTER AMENDING, IF MATERIAL STILL DOES NOT MEET THE SPECIFICATIONS, IT IS TO BE REMOVED FROM SITE AT NO ADDITIONAL COST TO THE OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- 32. ANY PROPOSED SIGNAGE SHALL BE APPROVED BY SEPARATE APPLICATION TO THE APPROPRIATE MUNICIPAL AUTHORITY INCLUDING BUT NOT LIMITED TO THE ZONING BOARD OF APPEALS. ALL PROPOSED SIGNAGE MUST MEET THE REQUIREMENTS OF THE LOCAL ZONING CODE OR AS SPECIFIED BY PERMIT AS ISSUED.
- 33. SITE CONSTRUCTION, ACCESS, UTILITY, GRADING AND SLOPE EASEMENTS TO BE COORDINATED AND ESTABLISHED PRIOR TO CONSTRUCTION AND ARE NOT SHOWN.
- 34. ALL CURBING TO BE BITUMINOUS CONCRETE CURB, EXCEPT ALL CURBING ABUTTING A SIDEWALK SHALL BE MONOLITHIC CURBING. CURBING TO THE FIRST INTERSECTION SHALL BE PRE—CAST CONCRETE.

GRADING & DRAINAGE NOTES:

- EXISTING PAVEMENT SHALL BE SAW-CUT AND PAVEMENT JOINT SHALL BE INSTALLED WHERE NECESSARY TO ENSURE A SMOOTH CONTINUOUS GRADE.
- 2. ALL GRADING OPERATIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- 3. IN LANDSCAPED AREAS THE TOP ELEVATION OF MANHOLES SHALL MATCH THE FINISH GRADE OF THE TOPSOIL. IN PAVED AREAS THE TOP ELEVATIONS OF MANHOLES SHALL MATCH FINISH GRADE.
- 4. ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED AS SOON AS POSSIBLE UPON COMPLETION OF CONSTRUCTION WORK IN THE AREA.
- 5. TEMPORARY TUBULAR BARRIER PROTECTION AND/OR SILT SACKS SHALL BE INSTALLED AND MAINTAINED AT EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION, TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE DRAINAGE SYSTEM.
- 6. CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE PER DEMOLITION PLAN.
- 7. ALL CATCH BASINS, MANHOLES, INFILTRATION SYSTEMS, AND WATER QUALITY STRUCTURES ARE TO BE CLEANED TO REMOVE ALL CONSTRUCTION SILT AND DEBRIS PRIOR TO FINAL APPROVAL.
- 8. IF ANY EXISTING UTILITY STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER AT NO ADDITIONAL COST.
- ALL STORM PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ENSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- COVERS & SHALL BE LABELED "DRAIN".

 11. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS A

10. ALL STORM DRAIN MANHOLES SHALL HAVE TRAFFIC BEARING RING &

- 11. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- 12. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- 13. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES STEEPER THAN 3H:1V.
- 14. ALL DRAINAGE SYSTEM COMPONENTS SHALL CONFORM TO LOCAL REQUIREMENTS.

UTILITY NOTES:

- I. THE LATEST STANDARDS OF THE LOCAL MUNICIPALITY SHALL BE FOLLOWED WHEN INSTALLING ANY STORM DRAIN WORK. STORM DRAIN WORK WILL BE INSPECTED BY THE LOCAL GOVERNING AUTHORITY PERSONNEL AND ALL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- ABANDONED EXISTING UTILITIES AND UTILITIES TO BE ABANDONED SHALL EITHER BE ABANDONED IN PLACE AS NOTED OR SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED. ALL UTILITIES SCHEDULED FOR ABANDONMENT OR REMOVAL AND DISPOSAL MUST BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY OWNER. WHEN ABANDONED UTILITIES ARE TO BE LEFT IN PLACE, PLUG OR CAP THE ENDS OF THE CONDUITS AND PIPES. REMOVE ABANDONED UTILITY MANHOLES, JUNCTION BOXES AND SIMILAR STRUCTURES TO A MINIMUM DEPTH OF 4 FEET BELOW FINISHED GRADE AND PUNCTURE OR BREAK THE BOTTOM SLABS OF MANHOLES AND SIMILAR STRUCTURE TO ALLOW DRAINAGE. BACKFILL AND COMPACT EXCAVATIONS RESULTING FROM REMOVAL OF UTILITY FACILITATES, AS REQUIRED TO RESTORE THE ORIGINAL GRADE.
- 4. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF NATURAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY BY THE UTILITY OWNER.

THE CONTRACTOR SHALL USE THE FOLLOWING PIPE MATERIALS: DRAIN — HDPE (HIGH DENSITY CORRUGATED POLYETHYLENE PIPE WITH SMOOTH INNER WALL), ASTM D2321 (UNLESS OTHERWISE

- 6. BEFORE UTILITY WORK BEGINS, THE CONTRACTOR WILL COORDINATE WITH THE LOCAL MUNICIPALITY FOR THE APPROPRIATE PERMIT AND INSPECTION
- 7. A MINIMUM OF 10 FEET CLEAR HORIZONTALLY SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER MAINS AND/OR STORM DRAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF 10 FEET TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE DIFFERENCE IN ELEVATION BETWEEN THE WATER MAIN AND THE SEWER MAIN SHALL BE AT LEAST 18 INCHES.
- B. ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES. COMPACTION BELOW INFILTRATION FIELDS SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
- . CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- 10. MINIMUM TRENCH WIDTH SHALL BE 2 FEET.

SPECIFIED ON PLAN)

- 11. CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5'-0" COVER AND A MAXIMUM OF 8'-0" COVER ON ALL WATERLINES.
- 12. IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING, THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" CLEARANCE BETWEEN THE PIPES. WHERE THE WATERLINE IS LESS THAN THE 18" VERTICAL CLEARANCE AND MEETING 10' HORIZONTAL CLEARANCE CANNOT BE MET, THE WATER MUST BE ENCASED IN CONCRETE.
- 13. ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
- 14. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER, SEWER AND ELECTRICAL AND TELECOMMUNICATIONS LINES.
- 15. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
- 16. DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING UTILITIES.

ABBREVIATIONS

| ABAN ADJ | ABANDON ADJUST | L LB LP | LENGTH LEACHING BASIN LIGHT POLE |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B BC BIT BCB BLDG BM BOS BOW BRK | BORING BOTTOM OF CURB BITUMINOUS BITUMINOUS CONCRETE BERM BUILDING BENCH MARK BOTTOM OF SLOPE BOTTOM OF WALL BRICK | MAT MAX MH MIN MISC MTD MW | MATERIAL MAXIMUM MANHOLE MINIMUM MISCELLANEOUS MOUNTED MONITORING WELL |
| BV&B BVW | BUTTERFLY VALVE & BOX BORDERING VEGETATED WETLAND | N NIC NO NTS | NORTH NOT IN CONTRACT NUMBER NOT TO SCALE |
| CATV CB CF CFS CI CL CLDI | CABLE TELEVISION CATCH BASIN CUBIC FEET CUBIC FEET PER SECOND CAST IRON (PIPE) CENTERLINE CEMENT LINED DUCTILE IRON (PIPE) | OC OD OHW OVHD OW | ON CENTER OUTSIDE DIAMETER OVERHEAD WIRE OVERHEAD OBSERVATION WELL |
| CM CMP CO CONC CONST CONT CRD CPP CUL CY | CONSTRUCTION MANAGER CORRUGATED METAL PIPE CLEAN OUT CONCRETE CONSTRUCTION CONTRACTOR COORDINATE CORRUGATED POLYETHYLENE PIPE CULVERT CUBIC YARD | PC PCC PI PKG PL PLMB POC POT PRC PROP, P PT PVC | POINT OF CURVATURE PRECAST CONCRETE CURB POINT OF INTERSECTION PARKING PROPERTY LINE PLUMBING POINT ON CURVATURE POINT ON TANGENT POINT OF REVERSE CURVATURE PROPOSED POINT (OR POINT OF TANGENT) POLYVINYL CHLORIDE (PIPE) |
| DB DBL DEM DET DI DIA DIM DMH DW DWG DYCL | DISTRIBUTION BOX DOUBLE DEMOLISH DETENTION DUCTILE IRON (PIPE) DIAMETER DIMENSION DRAIN MANHOLE DOMESTIC WATER (OR DRY WELL) DRAWING DOUBLE YELLOW CENTERLINE | R&R R&S RCP RD RED RELOC REM RET ROW RR | REMOVE & RESET/REPLACE REMOVE & STACK REINFORCED CONCRETE PIPE ROAD (OR ROOF DRAIN) REDUCER |
| EHH EL ELEC EMH EOP EOR EOW ETC EXIST EXT | | SD SF SGC SMH SP SPEC STA | SUBDRAIN SQUARE FEET SLOPED GRANITE CURB SEWER MANHOLE STANDPIPE SPECIFICATION STATION STORMCEPTOR STANDARD STRUCTURAL SOLID WHITE FDGE LINE |
| FA FCC FES FFE FLNP FPS FS FT | FIRE ALARM FLUSH CONCRETE CURB FLARED END SECTION FINISH FLOOR ELEVATION FIRE LANE NO PARKING FEET PER SECOND FIRE SERVICE FOOT/FEET | SW SWLL SYCL TB TC TD TEL, T | SIDEWALK SOLID WHITE LANE LINE SOLID YELLOW CENTERLINE TEST BORING TOP OF CURB TRENCH DRAIN TELEPHONE |
| GC GEN GG GR GRAN | GENERAL CONTRACTOR GENERAL GAS GATE GUIDE RAIL GRANITE | TMH TOS TOW TP TS&V TYP | TELEPHONE MANHOLE TOP OF SLOPE TOP OF WALL TEST PIT TAPPING SLEEVE & VALVE TYPICAL |
| GV GV&B GW | GATE VALVE GATE VALVE & BOX GROUND WATER | UD UL UP | UNDERDRAIN UNDERWRITERS LABORATORY UTILITY POLE |
| HCR HOR HT HW | HANDICAP RAMP HORIZONTAL HEIGHT HEADWALL | VCP VERT VGC | VITRIFIED CLAY PIPE VERTICAL VERTICAL GRANITE CURB |
| HWY HYD | HIGHWAY HYDRANT | WD WG | WOOD WATER GATE |

INCHES

INCLUDE

INSTALLED

INSIDE DIAMETER

INVERT, INVERT ELEVATION

INCL



WATER MAIN

WATER MANHOLE

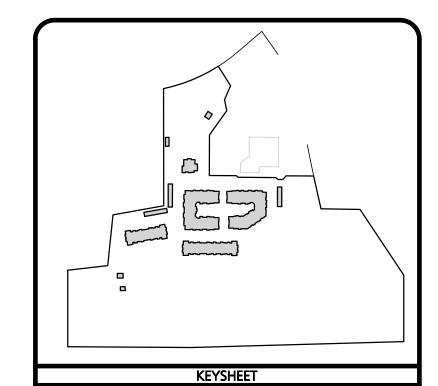
WATER SHUTOFF

WG

WM

WMH

BEFORE YOU DIG CALL 811 OR 1-888-DIG-SAFE 1-888-344-7233



ISSUED FOR
COMPREHENSIVE
PERMIT APPLICATION
SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:

LIMITED DIVIDEND AFFILIATE OF

WP EAST ACQUISITIONS, LLC.

91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMITALITY
ALTA NASHOBA VALLEY

580 MAIN STREET BOLTON, MA
PROJECT NO. 1670-15 DATE: 09-10

SCALE: NONE DWG. NAME: C1670-15
DESIGNED BY: JPS CHECKED BY: PLC

ALLEN & MAJOR ASSOCIATES, INC.

civil engineering • land surveying
environmental consulting • landscape architectur
w w w . a l l e n m a j o r . c o m

10 MAIN STREET LAKEVILLE, MA 02347 TEL: (508) 923-1010 FAX: (508) 923-6309

WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, N

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DRAWING TITLE:

SHEET No.

09-10-2021

ABBREVIATIONS & NOTES | C-001

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EROSION CONTROL NOTES

EROSION & SEDIMENTATION CONTROL NOTES:

- EROSION CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 2017 "CONSTRUCTION GENERAL PERMIT" MANUAL, AND MASSACHUSETTS 2003 EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, ANY SUCH MODIFICATIONS FROM THE ABOVE MANUALS SHALL BE INSTALLED AS APPROVED BY THE ENGINEER OR THE LOCAL MUNICIPALITY.
- AREAS OF EXPOSED SOIL UNDERGOING CONSTRUCTION THAT WILL NOT BE COVERED AND OR FINISHED GRADED SHALL BE STABILIZED AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY (UNLESS MUNICIPALITY HAS STRICTER REQUIREMENTS WHICH SHALL BE FOLLOWED) IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE EROSION CONTROL MESH, NETTING OR MULCH AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND SHOWN ON THE DESIGN PLANS. IF MULCH IS USED, STRAW MULCH SHALL BE APPLIED AT THE RATE OF 4 BALES PER 1,000 SQUARE FEET. APPLICATION AREA SHALL BE SUFFICIENTLY COVERED WITH MULCH TO AVOID ANY VISIBLE SOIL EXPOSURE. MULCH SHALL BE KEPT MOIST TO AVOID LOSS DUE TO WIND. MULCH AND NETTING SHALL BE APPLIED IN THE BASE OF ALL GRASSED WATERWAYS, IN VEGETATIVE SLOPES WHICH EXCEED 15% AND DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS.
- 3. IF DISTURBED AREAS DO NOT RECEIVE FINAL SEEDING BY OCTOBER 1ST OF THE CONSTRUCTION YEAR, THEN ALL DISTURBED AREAS SHALL BE SEEDED WITH A WINTER COVER CROP AT THE RATE OF 3 LBS PER 1,000 SQUARE FEET, WINTER SEEDING SHALL BE COVERED WITH EROSION CONTROL MESH (MULCH AND NETTING). HEAVY GRADE MATS SHALL BE USED IN THE BASE OF ALL GRASSED WATERWAYS ON VEGETATED SLOPES IN EXCESS OF 15%, AND ANY DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS. MULCH AND NETTING SHALL ALSO BE PROVIDED FOR ADDITIONAL WINTER PROTECTION.
- ALL TOPSOIL SHALL BE COLLECTED, STOCKPILED, SEEDED WITH RYE AT 3LBS PER 1,000 SQUARE FOOT AND MULCHED, AND REUSED AS REQUIRED. TUBULAR BARRIERS SHALL BE PLACED DOWN GRADIENT FROM STOCKPILED LOAM. LOAM SHALL BE STOCKPILED AT LOCATIONS DESIGNATED BY THE OWNER AND ENGINEER.
- ALL TUBULAR BARRIERS, SILT SACKS, AND EROSION CONTROL BERMS SHALL BE INSTALLED ACCORDING TO THE SITE PREPARATION PLAN. THESE SHALL BE MAINTAINED DURING DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER. ALL THE FILTER BARRIERS AND EROSION CONTROL BERMS SHALL BE INSPECTED AFTER ANY RAINFALL OR RUNOFF EVENT, MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE AT LEAST 85-90% VIGOROUS PERENNIAL COVER OF GRASSES.
- ADJACENT ROADS SHALL BE PERIODICALLY SWEPT OR WASHED TO AVOID TRACKING MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA AS OFTEN AS NECESSARY (WHICH COULD BE ON A DAILY BASIS) TO REMOVE ANY SOIL OR SEDIMENTS AT NO ADDITIONAL COST TO THE OWNER. A WATERING TRUCK WILL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. BOTH EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION BY THE USE SILT SACKS AND/OR TUBULAR BARRIERS AROUND EACH INLET AS NOTED ON THE PLANS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.
- AS APPLICABLE, EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDED AREAS AS SPECIFIED ON THE DESIGN PLANS.
- AT A MINIMUM. ALL TUBULAR BARRIERS AND FILTER FABRIC SHALL REMAIN IN PLACE UNTIL SEEDINGS OR PLANTINGS HAVE BECOME 85-90% ESTABLISHED. THE LOCAL CONSERVATION COMMISSION MUST APPROVE THE REMOVAL OR RELOCATION OF ANY OF THE TUBULAR BARRIERS AND FILTER FABRIC. ONCE THE TUBULAR BARRIERS ARE REMOVED THE AREAS ARE TO BE LOAMED AND SEEDED TO ACHIEVE FULL STABILIZATION.
- 10. AT THE OWNER'S DISCRETION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EARTHWORKS AND FINISHED GRADED AREAS. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL MEASURES AS SPECIFIED BY THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO REQUESTS BY MA DEP, THE ENGINEER AND THE LOCAL MUNICIPALITY, AS AUTHORIZED BY THE OWNER. FAILURE TO COMPLY WITH THE OWNER'S DIRECTIONS WILL RESULT IN DISCONTINUATION OF CONSTRUCTION ACTIVITIES.
- 11. INSPECTIONS AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. WEEKLY INSPECTIONS SHALL BE HELD THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. WEEKLY INSPECTION REPORTS SHALL BE MAINTAINED BY THE CONTRACTOR AND LOCATED IN THE CONTRACTORS FIELD OFFICE ONSITE. IN ADDITION TO THE NORMAL WEEKLY INSPECTIONS. THE CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL EROSION CONTROL MEASURES AFTER EACH RAINFALL OR RUNOFF EVENT, AND PERFORM THE NECESSARY REPAIRS. THE INSPECTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE SITE'S DOWN STREAM DISCHARGE POINTS.
- 12. IF ANY EVIDENCE OF SEDIMENTATION IS OBSERVED AT THE STORMWATER MANAGEMENT AREA INLETS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE A PLAN TO THE ENGINEER TO REMOVE ANY ACCUMULATED SEDIMENT IN THESE AREAS. THE CONTRACTOR SHALL ALSO IMMEDIATELY PROVIDE ADDITIONAL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT FURTHER DEGRADATION OF THE AREA.
- 13. FOLLOWING THE TEMPORARY OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMI-MONTHLY TO ENSURE THE AREAS HAVE A MINIMUM OF 85-90% VEGETATED VIGOROUS GROWTH. RE-SEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.
- 14. CONTRACTOR & ALL SITE SUBCONTRACTORS SHALL BE FAMILIAR WITH & FOLLOW ALL APPROVED PERMITS AND CONDITIONS. CONTRACTOR SHALL MAINTAIN A COPY OF ALL APPROVED PERMITS ONSITE. ALL CONDITIONS & RECOMMENDATIONS WITHIN THE APPROVED PERMITS SHALL BE COMPLETED.
- 15. ALL EROSION MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE LOCAL MUNICIPALITY.
- 16. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- 17. TOP OF STOCKPILES SHALL BE COVERED IN SUCH MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.

EROSION & SEDIMENTATION CONTROL NOTES (CONTINUED):

- 18. ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA, SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK OR SIX MONTHS AFTER SOIL HAS BEEN DISTURBED WHICHEVER IS LESS.
- 19. CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY TUBULAR BARRIER FILTERS AND STONE CHECK DAMS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 20. TUBULAR BARRIER DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS. NO SEDIMENTATION SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
- 21. ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTIONS SHALL TAKE PLACE WEEKLY AND BEFORE AND AFTER EACH RAINFALL EVENT.
- 22. ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND PROTECTED FROM EROSION UNTIL WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- 23. THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL TUBULAR BARRIERS FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE TOWN ENGINEER TO MITIGATE ANY EMERGENCY CONDITION.
- 24. AS CONSTRUCTION DISTURBANCE IS GREATER THAN 1 ACRE, A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT NOI, AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL NEED TO BE SUBMITTED TO THE EPA. THE NPDES PERMIT FOR STORM WATER DISCHARGE, & CONSTRUCTION GENERAL PERMIT NOI WILL BE REQUIRED TO BE SUBMITTED AT LEAST 14 DAYS PRIOR TO COMMENCING CONSTRUCTION BY THE CONTRACTOR.
- 25. OWNER AND CONTRACTOR ARE RESPONSIBLE FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT NOI. WEEKLY SWPPP INSPECTION REPORTS TO BE PERFORMED BY CONTRACTOR. COPIES OF ALL SWPPP INSPECTION REPORTS SHALL BE PROVIDED TO THE LOCAL MUNICIPALITY, EPA, DEP, OR ANY OTHER AUTHORITY REQUESTING WITHIN 3 DAYS OF EACH INSPECTION.
- 26. APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL LOCAL, MA DEP, EPA CONSTRUCTION GENERAL PERMIT STANDARDS. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SITE PLAN REGULATIONS FROM THE LOCAL AND USDA SOIL CONSERVATION SERVICE VEGETATIVE PRACTICES IN SITE DEVELOPMENT.
- 27. A WATERING TRUCK SHALL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED.
- 28. IF DEWATERING IS NECESSARY IT SHALL ONLY BE COMPLETED AS FOLLOWS: THE DISCHARGE SHALL BE STOPPED IMMEDIATELY IF THE RECEIVING AREA SHOWS ANY SIGN OF INSTABILITY OR EROSION. ALL CHANNELS, SWALES, AND DITCHES DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA SHALL BE STABLE PRIOR TO DIRECTING DISCHARGE TO THEM. IF A CONSTRUCTION EQUIPMENT BUCKET IS USED, IT SHALL EMPTY THE MATERIAL TO A STABLE AREA. NO DEWATERING SHALL OCCUR DURING PERIODS OF INTENSE, HEAVY RAIN. FLOW TO THE SEDIMENT REMOVAL STRUCTURE SHALL NOT EXCEED THE STRUCTURE'S CAPACITY TO SETTLE AND FILTER FLOW OR ITS VOLUME CAPACITY. WHENEVER POSSIBLE. THE DISCHARGE FROM THE SEDIMENT REMOVAL STRUCTURE SHALL DRAIN TO A WELL-VEGETATED BUFFER BY SHEET FLOW WHILE MAXIMIZING THE DISTANCE TO THE NEAREST WATER RESOURCE AND MINIMIZING THE SLOPE OF THE BUFFER AREA. THERE SHALL BE NO DIRECT DISCHARGE TO EXISTING WETLANDS OR STREAMS. ALL DISCHARGE SHALL BE IN COMPLIANCE WITH STATE, LOCAL, AND FEDERAL REQUIREMENTS.
- 29. INITIATE STABILIZATION OF EXPOSED AREAS IMMEDIATELY IF CONSTRUCTION WORK TEMPORARILY OR PERMANENTLY CEASES.
- 30. ALL DISCHARGES FROM POLLUTION SOURCES ARE PROHIBITED ONSITE SUCH AS FUELS, WASTEWATER FROM WASH OUT OF CONCRETE, WASTEWATER FROM CLEAN OUT OF PAINTS. FORM RELEASE OILS, SOLVENTS, ADHESIVES, CURING COMPOUNDS, POLLUTANTS USED FOR MAINTENANCE OF VEHICLES AND EQUIPMENT, SOAPS & SOLVENTS, TOXIC OR HAZARDOUS SUBSTANCES, CHEMICALS AND OILS. IF A POLLUTANT IS DISCHARGED IT NEEDS TO BE IMMEDIATELY CLEANED UP BY REMOVING THE CHEMICAL AND AFFECTED SOIL OR AREA OF SPILL FROM THE SITE IN ACCORDANCE WITH BOTH THE MANUFACTURER RECOMMENDATIONS, FEDERAL, STATE, AND LOCAL REQUIREMENTS. DO NOT HOSE DOWN AND SPREAD SPILLED ITEM. ALL CHEMICALS USED ON THE SITE SHALL BE IN LEAK-PROOF CONTAINERS STORED AWAY FROM WETLANDS, SURFACE WATERS, STORMWATER INLETS, AND DRAINAGE MEASURES. SPILL KITS SHALL BE AVAILABLE ONSITE FOR EMERGENCY USE. THERE SHALL BE A SECONDARY CONTAINMENT MEASURE OF ALL CHEMICALS IN ADDITION TO SPILL-PROOF CONTAINERS.
- 31. PRIOR TO COMMENCEMENT OF CONSTRUCTION, APPLICABLE CONTRACTOR PERSONNEL MUST HAVE AN UNDERSTANDING OF THE EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS AND THEIR SPECIFIC RESPONSIBILITIES UNDER THE PERMIT. AT A MINIMUM, PERSONNEL MUST BE TRAINED AND UNDERSTAND THE FOLLOWING: LOCATION OF ALL STORMWATER CONTROLS AND HOW TO MAINTAIN THEM, PROCEDURES FOR COMPLYING WITH THE POLLUTION PREVENTION REQUIREMENTS. PROCEDURES FOR CONDUCTING INSPECTIONS, RECORDING FINDINGS, AND TAKING CORRECTIVE ACTION.
- 32. ALL SEDIMENT TRACKED ONTO ROADWAYS MUST BE REMOVED AT END OF EACH WORK
- 33. ALL USE OF CATIONIC TREATMENT CHEMICALS (EXAMPLES INCLUDE POLYMERS. CHITOSAN, CATIONIC PAM, FLOCCULANTS OR OTHER CHEMICAL UTILIZED FOR STABILIZATION) ARE PROHIBITED. IF ALL OTHER AVAILABLE STABILIZATION MEASURES ARE NOT POSSIBLÉ AND USE OF CATIONIC CHEMICALS IS ABSOLUTELY NECESSARY THE CONTRACTOR WILL NEED TO CONTACT THE EPA NEW ENGLAND OFFICE IN WRITING FOR APPROVAL AND SPECIFIC REQUIREMENTS (MAXIMUM DOSAGE RATE, RESIDUAL TESTING, SPECIFIC LIMITATIONS, ETC) PRIOR TO USE.
- 34. IF USING NON-VEGETATIVE STABILIZATION MEASURES, IT MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER INITIATING STABILIZATION. ALL AREAS OF EXPOSED SOILS MUST BE COVERED.
- 35. INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE AT LEAST ONCE EVERY 7 DAYS BY THE CONTRACTOR. AT A MINIMUM INSPECTIONS SHALL INCLUDE ALL DISTURBED AREAS, ALL STORMWATER CONTROLS AND POLLUTION PREVENTION MEASURES, ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED, EQUIPMENT AND MATERIAL STORAGE AREAS, ALL AREAS WHERE STORMWATER FLOWS AND ALL POINTS OF DISCHARGE. WHEN CORRECTIVE ACTIONS ARE REQUIRED, THE CONTRACTOR MUST IMMEDIATELY TAKE ALL STEPS TO PREVENT POLLUTANT DISCHARGES UNTIL A PERMANENT SOLUTION IS IMPLEMENTED. AS NECESSARY NEW OR MODIFIED CONTROLS MUST BE INSTALLED AND OPERATIONAL, THE REPAIR MUST BE COMPLETED WITHIN 7 DAYS FROM THE TIME OF DISCOVERY. WITHIN 24 HOURS OF A TRIGGERING CONDITION OCCURRING THAT REQUIRES A CORRECTIVE ACTION, A CORRECTIVE ACTION REPORT MUST BE COMPLETED.

MAINTENANCE:

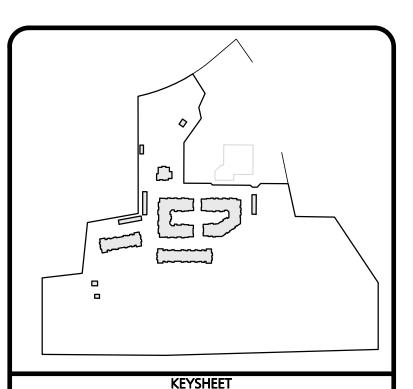
ALL MEASURES STATED ON THE STORMWATER POLLUTION PREVENTION PLANS, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION BY CONTRACTOR UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING. OR DETERIORATION.
- 2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A HEALTHY STAND OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- 3. ALL SEDIMENT CONTROLS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE TUBULAR SEDIMENT CONTROLS WHEN IT REACHES HALF THE HEIGHT OF THE CONTROL MEASURE OR AS REQUESTED BY THE OWNER OR ENGINEER.
- 4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
- THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
- 6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

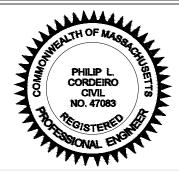
CONSTRUCTION GENERAL PERMIT NOTES AND NARRATIVE:

NARRATIVE: THE STORMWATER POLLUTION PREVENTION PLANS CONSIST OF THE SITE PREPARATION PLAN TOGETHER WITH AN EXISTING CONDITIONS PLANS, GRADING PLANS, ABBREVIATIONS AND NOTES SHEETS, AND DETAIL SHEETS.

- THE EROSION CONTROL PLAN WILL BE IMPLEMENTED TO:
- A. TREAT EROSION AS SOON AS POSSIBLE AFTER DISTURBANCE
- B. PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE RECEIVING WATERS.
- C. CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
- D. ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.



ISSUED FOR COMPREHENSIVE PERMIT APPLICATION **SEPTEMBER 10, 2021**



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC. 91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT ALTA NASHOBA VALLEY

580 MAIN STREET BOLTON, MA

| OJECT NO. | 1670-15 | DATE: | 09-10-2021 |
|------------|---------|-------------|------------|
| ALE: | NONE | DWG. NAME: | C1670-15 |
| SIGNED BY: | JPS | CHECKED BY: | PLC |



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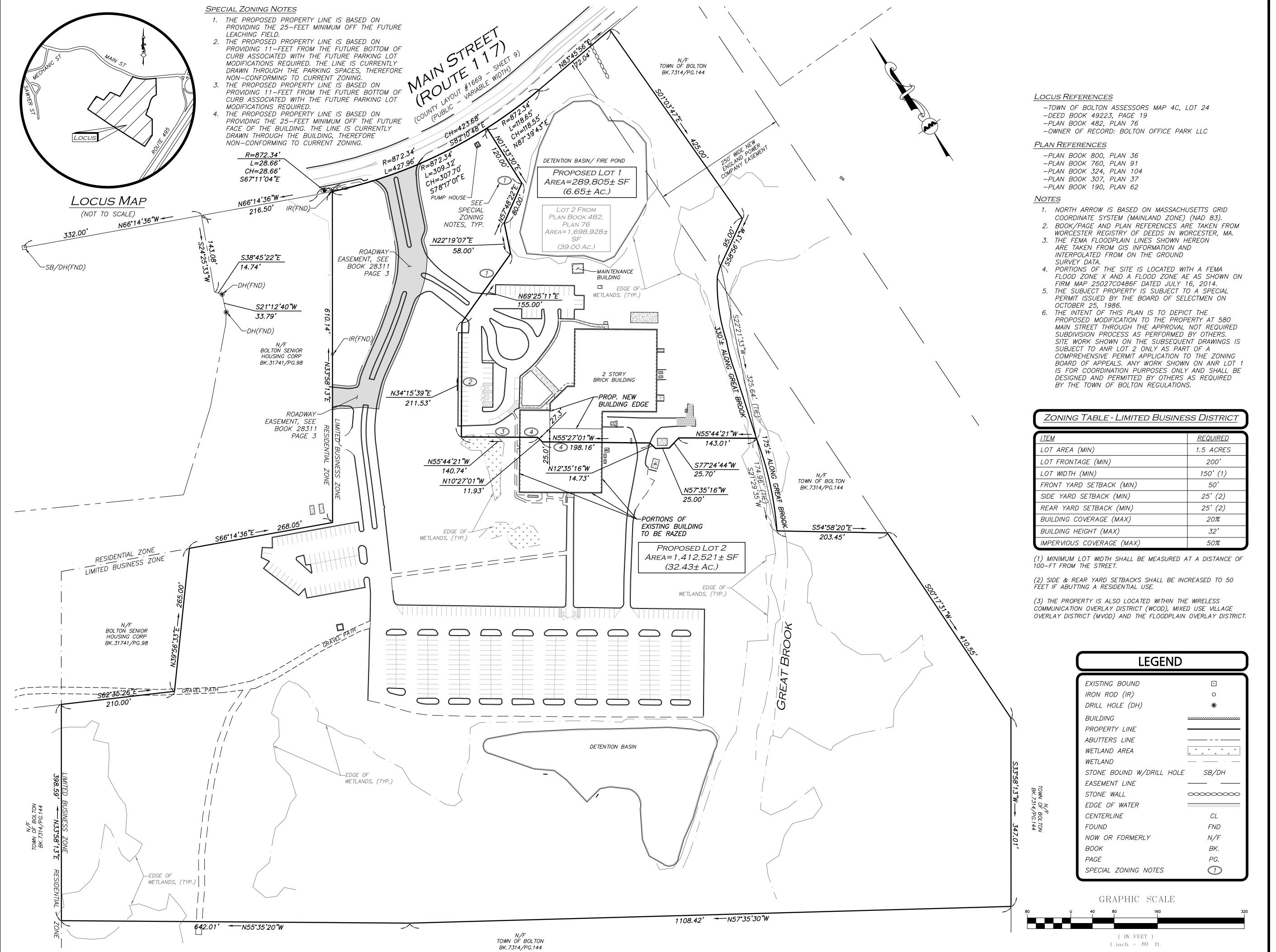
WOBURN, MA ♦ LAKEVILLE, MA ♦ MANCHESTER, N

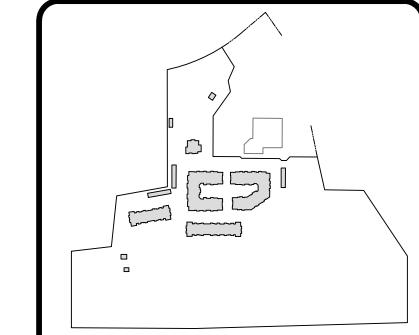
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DRAWING TITLE:

SHEET No.

ABBREVIATIONS & NOTES





KEYSHEET

REV DATE DESCRIPTION

APPLICANT\OWNER:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY

91 HARTWELL AVENUE, 3RD FLOOR

LIMITED DIVIDEND AFFILIATE OF

WP EAST ACQUISITIONS, LLC.

LEXINGTON, MA 02421

PROJECT NO. 1670-15 DATE: 09-10-2021

SCALE: 1" = 80' DWG. NAME: C1670-15

580 MAIN STREET BOLTON, MA

DESIGNED BY: KAC/PGM CHECKED BY:



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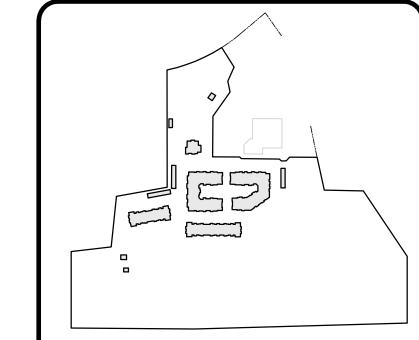
SHEET No.

C-003

DRAWING TITLE:

CONCEPTUAL PROPERTY LINE MODIFICATION PLAN

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KEYSHEET

ISSUED FOR
COMPREHENSIVE
PERMIT APPLICATION
SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:
LIMITED DIVIDEND AFFILIATE OF
WP EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY
580 MAIN STREET BOLTON, MA

 PROJECT NO.
 1670-15
 DATE:
 09-10-2021

 SCALE:
 1" = 60'
 DWG. NAME:
 C1670-15

 DESIGNED BY:
 JPS
 CHECKED BY:
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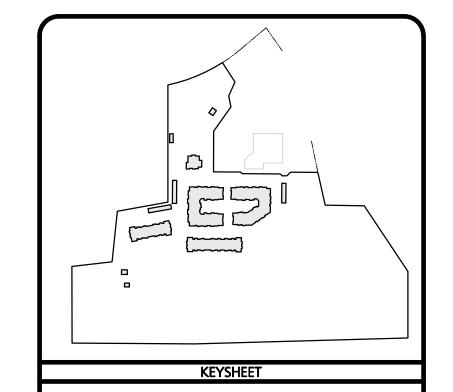
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DRAWING TITLE:

SHEET No.

EROSION CONTROL PLAN C-100

1-888-344-7233





PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:
LIMITED DIVIDEND AFFILIATE OF
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91 HARTWELL AVENUE, 3RD FLOOR
LEXINGTON, MA 02421

PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY
580 MAIN STREET BOLTON, MA

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 1670-15
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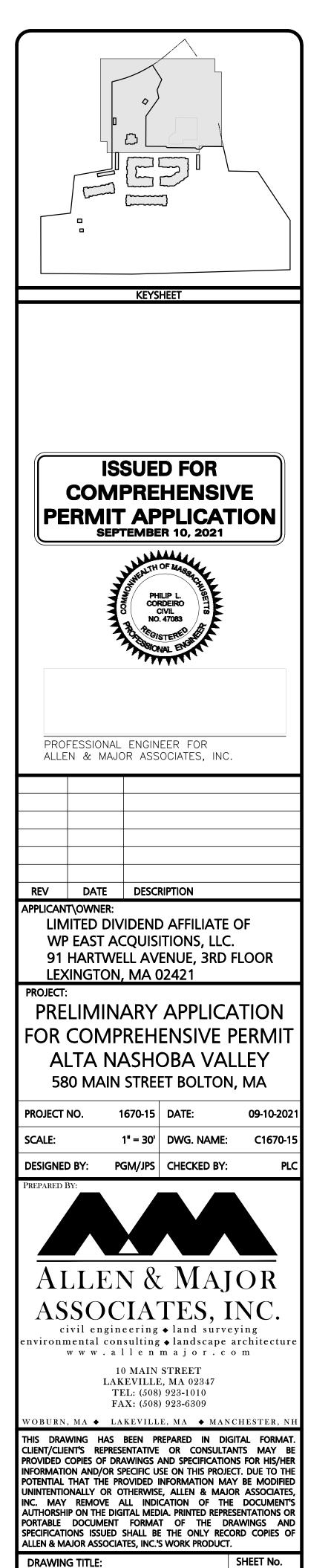
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DRAWING TITLE:

OVERALL LAYOUT & MATERIALS PLAN

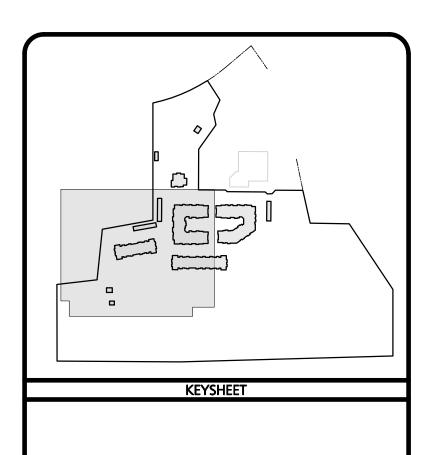
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C-101



LAYOUT & MATERIALS PLAN | C-102

ROJECTS\1670—15\CIVIL\DRAWINGS\CURRENT\C-1670-15 $_{-}$ LAYOUT & MATERIALS.DW



SEE SHEET C-102

ISSUED FOR COMPREHENSIVE PERMIT APPLICATION
SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC. 91 HARTWELL AVENUE, 3RD FLOOR LEXINGTON, MA 02421

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY** 580 MAIN STREET BOLTON, MA

1670-15 DATE: PROJECT NO. 09-10-2021 1" = 30' DWG. NAME: C1670-15 PGM/JPS | CHECKED BY: **DESIGNED BY:**



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DRAWING TITLE:

SHEET No. LAYOUT & MATERIALS PLAN | C-103

PARKING & LOADING REQUIREMENTS

| PARKING USE | REQUIRED | PROVIDED |
|------------------------------------|---------------|------------|
| LOT 2 | | |
| RESIDENTIAL (2 SPACES PER UNIT) | 2 x 229 = 458 | 382 |
| TOTAL | 458 SPACES | 382 SPACES |

- 1. A TOTAL NUMBER OF 382 PARKING SPACES ARE PROVIDED THROUGHOUT THE SITE ON LOT 2, WHICH CONSISTS OF THE FOLLOWING BREAKDOWN:
- 15 EXTERIOR ACCESSIBLE SPACES
- 1 GARAGE ACCESSIBLE SPACE • 27 STANDARD GARAGE SPACES
- 2. PARKING IS PROVIDED AT A RATIO OF 1.67

LEGEND

| PROP. PROPERTY LINE | |
|--------------------------|----------------------------------------------|
| SIGN | |
| BOLLARD | • |
| BUILDING | |
| BUILDING ARCHITECTURE | W W |
| BUILDING INTERIOR WALLS | Ь |
| CURB | |
| RETAINING WALL | |
| PARKING STRIPING | < ∖ •• |
| ROADWAY STRIPING | |
| TRAFFIC ARROWS | → 1 |
| HEAVY DUTY CONCRETE | |
| SIDEWALK | |
| BRICK SIDEWALK | |
| ADA ACCESSIBLE RAMP | |
| ADA DET. WARNING SURFACE | |
| SNOW STORAGE | |
| GRAVEL ACCESS | |
| SETBACK LINE | |
| SAW-CUT LINE | |
| PARKING COUNT | 10 |
| STEEL GUARDRAIL | |
| WOOD GUARDRAIL | |
| CHAIN LINK FENCE | ×× |
| WOOD FENCE | |
| DECORATIVE FENCE | °° |
| TREE LINE | <i>,</i> , , , , , , , , , , , , , , , , , , |
| TRANSFORMER | T |
| | |

ZONING SUMMARY CHART LIMITED BUSINESS DISTRICT

| ТЕМ | REQUIRED | PROP. LOT 2 |
|-------------------------|----------|--------------------|
| MINIMUM LOT AREA | 1.5 AC. | 32.43 AC. |
| MINIMUM LOT FRONTAGE | 200' | 309.32' |
| MINIMUM LOT WIDTH | 150' | 366.16' |
| MINIMUM FRONT SETBACK | 50' | 183.92' |
| MINIMUM SIDE SETBACK | 25' | 9.52' |
| MINIMUM REAR SETBACK | 25' | 463.80' |
| BUILDING HEIGHT | 32' | N/A ⁽⁴⁾ |
| MAX IMPERVIOUS COVERAGE | 50% | 18.12% |

(1) MINIMUM LOT WIDTH SHALL BE MEASURED AT A DISTANCE OF 100-FT FROM THE STREET.

(2) SIDE & REAR YARD SETBACKS SHALL BE INCREASED TO 50 FEET IF ÀBUTTING A RESIDENTIAL USE.

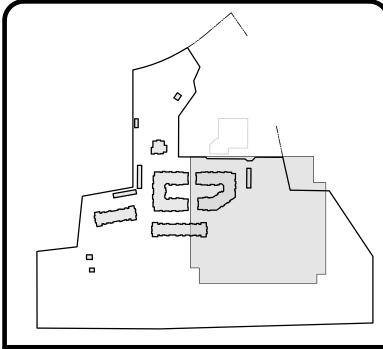
(3) THE PROPERTY IS ALSO LOCATED WITHIN THE WIRELESS COMMUNICATION OVERLAY DISTRICT (WCOD), MIXED USE VILLAGE OVERLAY DISTRICT (MVOD) AND THE FLOODPLAIN OVERLAY DISTRICT.

(4) BUILDING HEIGHT IS DEFINED UNDER SECTION 250-13. f. OF THE TOWN OF BOLTON CODE. NO MAXIMUM HEIGHT IS SPECIFIED FOR RESIDENTIAL USE

GRAPHIC SCALE

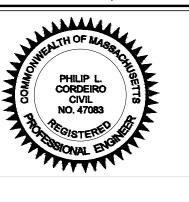
(IN FEET)

1 inch = 30 ft.



KEYSHEET

ISSUED FOR COMPREHENSIVE PERMIT APPLICATION SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC. 91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY** 580 MAIN STREET BOLTON, MA

| PROJECT NO. | 1670-15 | DATE: | 09-10-2021 |
|--------------|----------|-------------|------------|
| SCALE: | 1" = 30' | DWG. NAME: | C1670-15 |
| DESIGNED BY: | PGM/JPS | CHECKED BY: | PLC |



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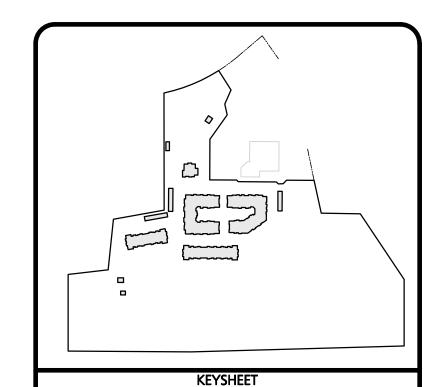
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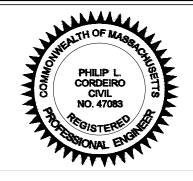
SHEET No.

DRAWING TITLE:

LAYOUT & MATERIALS PLAN | C-104

ALLEN & MAJOR ASSOCIATES, INC.'S WORK PRODUCT.





PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:

LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421 PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY

PROJECT NO. 1670-15 DATE: 09-10-2021

580 MAIN STREET BOLTON, MA

ALE: 1" = 60' DWG. NAME: C1670-15

DESIGNED BY: PGM CHECKED BY:



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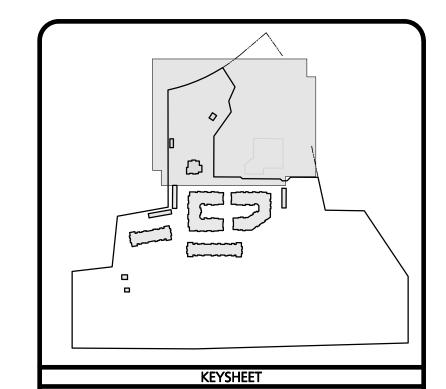
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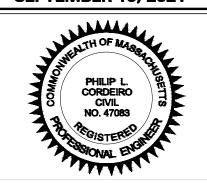
DRAWING TITLE:

SHEET No.

GRADING & DRAINAGE OVERVIEW PLAN

C-105





PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:

LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC.

91 HARTWELL AVENUE, 3RD FLOOR LEXINGTON, MA 02421

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY

PROJECT NO. 1670-15 DATE: 09-10-2021

580 MAIN STREET BOLTON, MA

SCALE: 1" = 30' DWG. NAME: C1670-15

SALED DV. DCAA CHECKED DV.

DESIGNED BY: PGM CHECKED BY:

PREPARED RY:



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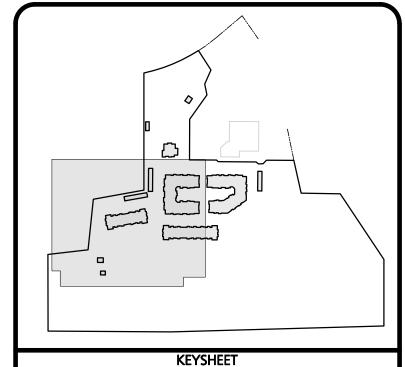
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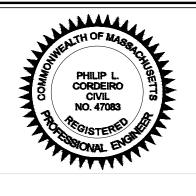
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DRAWING TITLE:

SHEET No.

GRADING & DRAINAGE PLAN | C-106





PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC. 91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421 PROJECT:

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY** 580 MAIN STREET BOLTON, MA

| PROJECT NO. | 1670-15 | DATE: | 09-10-202 |
|--------------|----------------------|-------------|-----------|
| SCALE: | 1" = 30 ¹ | DWG. NAME: | C1670-15 |
| DESIGNED BY: | PGM | CHECKED BY: | PLO |



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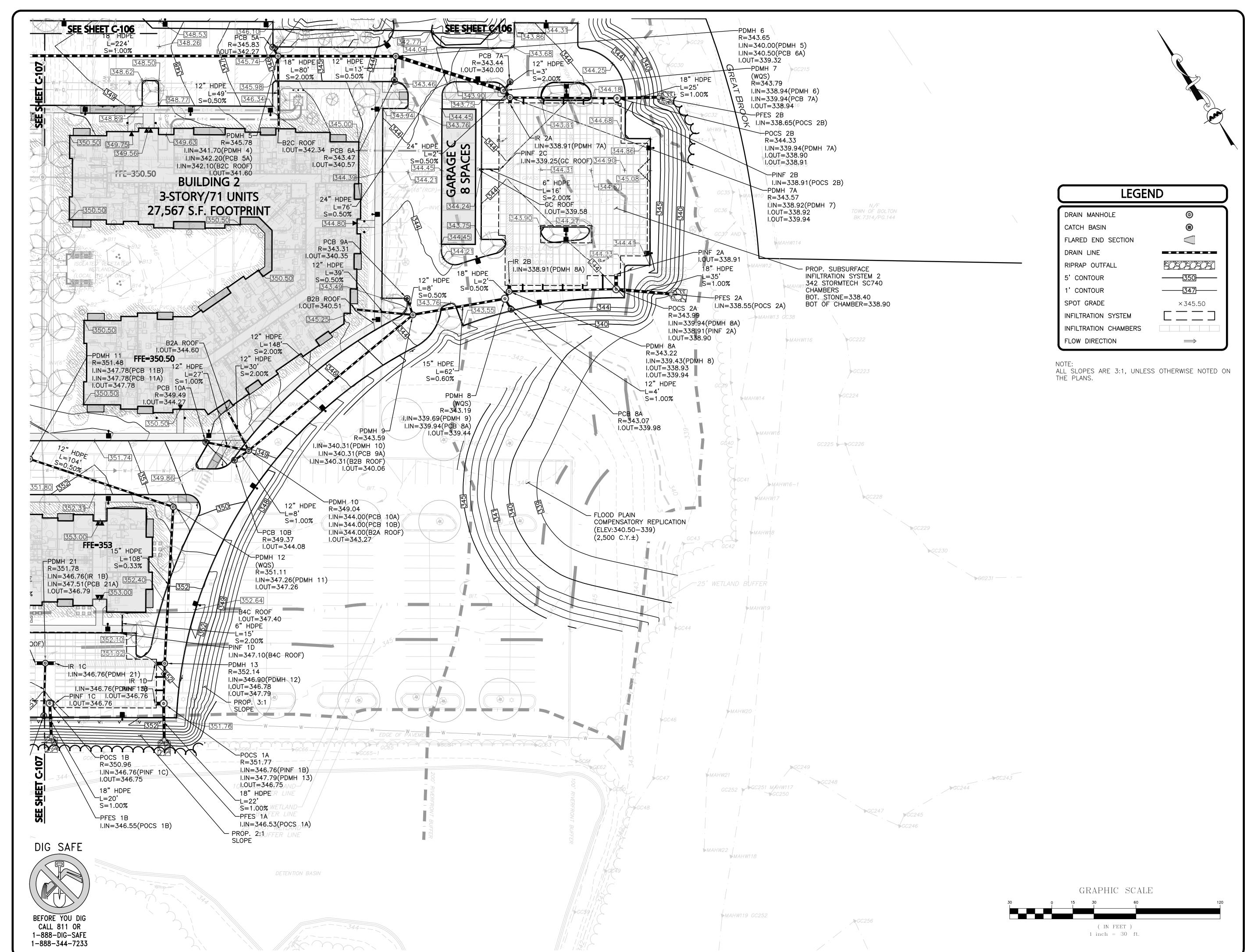
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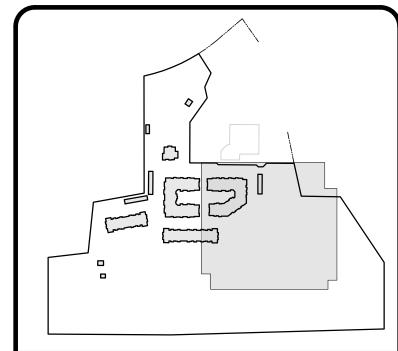
DRAWING TITLE:

GRADING & DRAINAGE PLAN | C-107

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KEYSHEET

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COMPREHENSIVE
PERMIT APPLICATION
SEPTEMBER 10, 2021



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REV DATE DESCRIPTION

APPLICANT\OWNER:
LIMITED DIVIDEND AFFILIATE OF
WP EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY
580 MAIN STREET BOLTON, MA

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 1" = 30'
 DWG. NAME:
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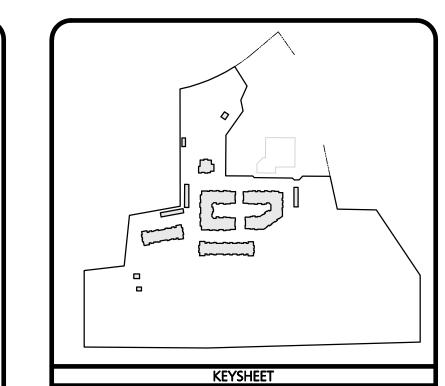
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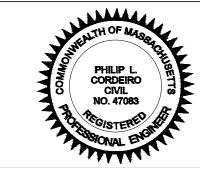
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GRADING & DRAINAGE PLAN | C-108





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REV DATE DESCRIPTION

APPLICANT\OWNER:

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WP EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR
LEXINGTON, MA 02421

PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY

580 MAIN STREET BOLTON, MA

 PROJECT NO.
 1670-15
 DATE:
 09-10-2021

 SCALE:
 1" = 60'
 DWG. NAME:
 C1670-15

 DESIGNED BY:
 CHECKED BY:
 PLC



civil engineering • land surveying environmental consulting • landscape architecture w w w . a l l e n m a j o r . c o m

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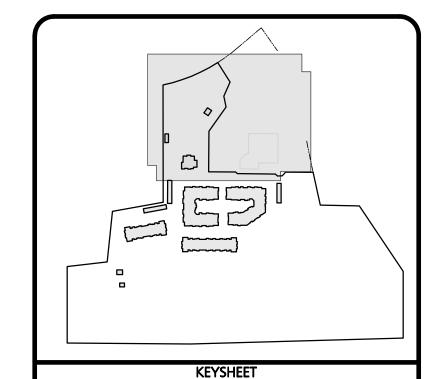
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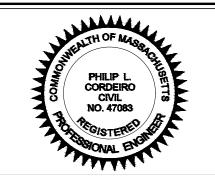
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DRAWING TITLE:

UTILITIES PLAN

C-109





PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:
LIMITED DIVIDEND AFFILIATE OF
WP EAST ACQUISITIONS, LLC.
91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
ROJECT:

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT ALTA NASHOBA VALLEY

580 MAIN STREET BOLTON, MA

 PROJECT NO.
 1670-15
 DATE:
 09-10-2021

 SCALE:
 1" = 30'
 DWG. NAME:
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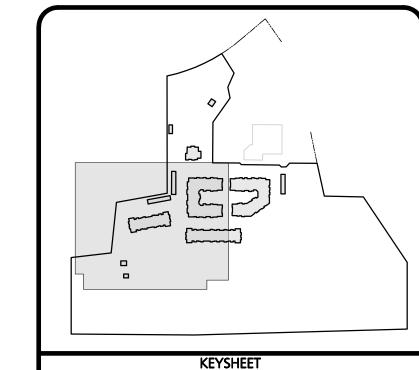
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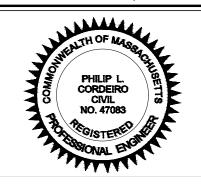
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LEXINGTON, MA 02421

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY** 580 MAIN STREET BOLTON, MA

1670-15 DATE: 09-10-2021 PROJECT NO. SCALE: 1" = 30' DWG. NAME: DESIGNED BY: **CHECKED BY:**



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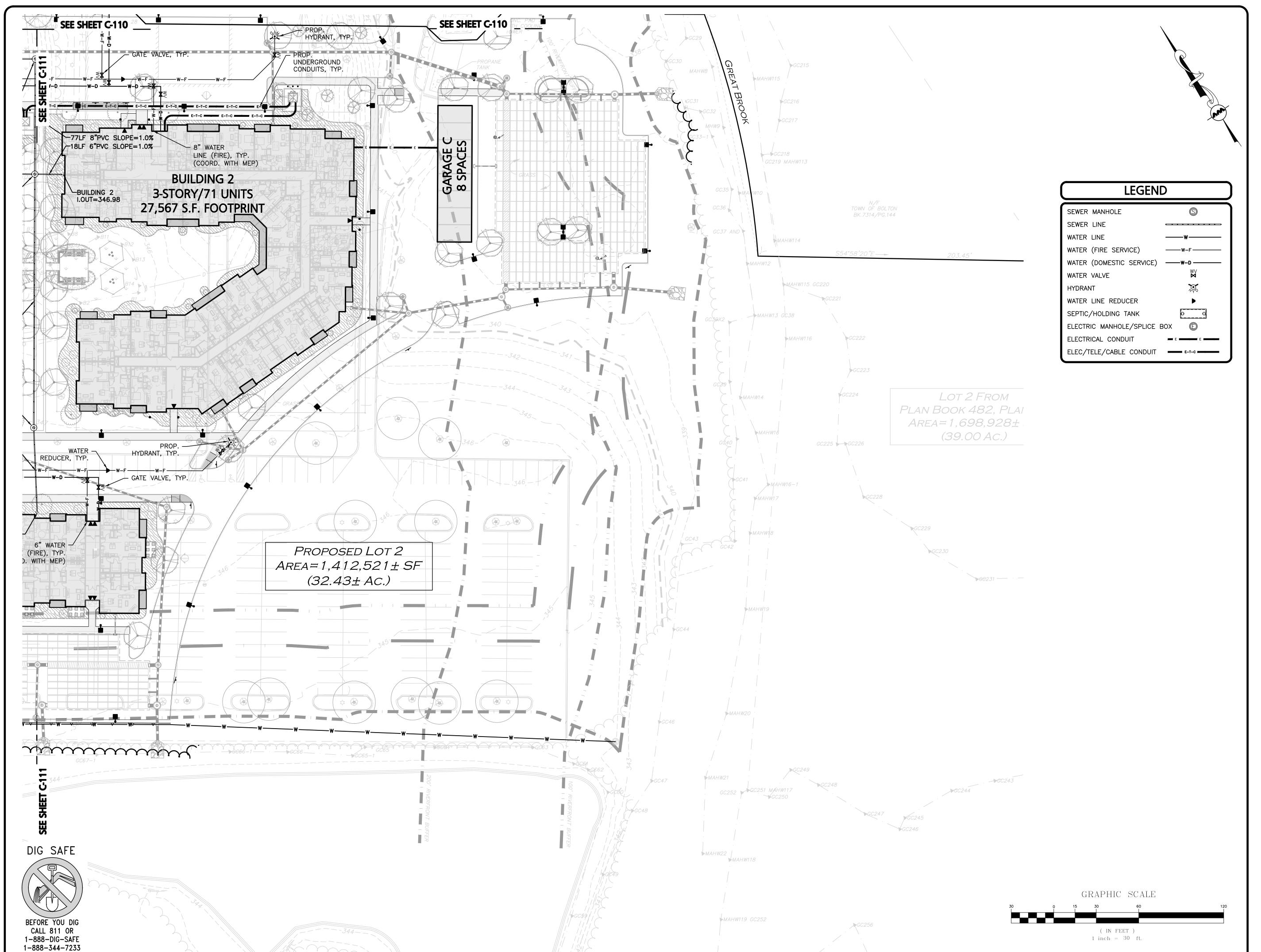
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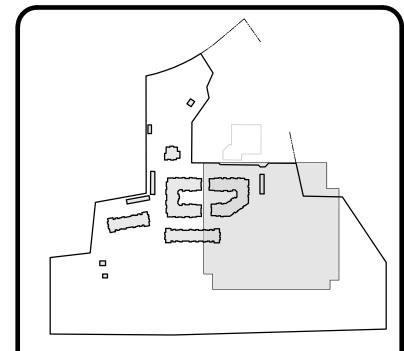
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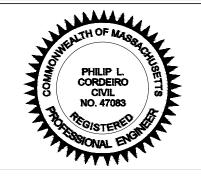
UTILITIES PLAN





KEYSHEET

ISSUED FOR
COMPREHENSIVE
PERMIT APPLICATION
SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

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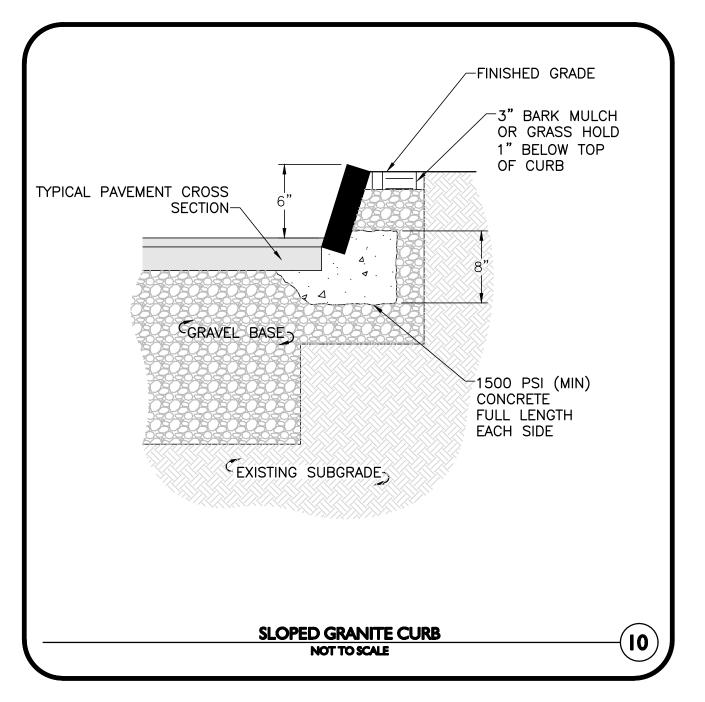
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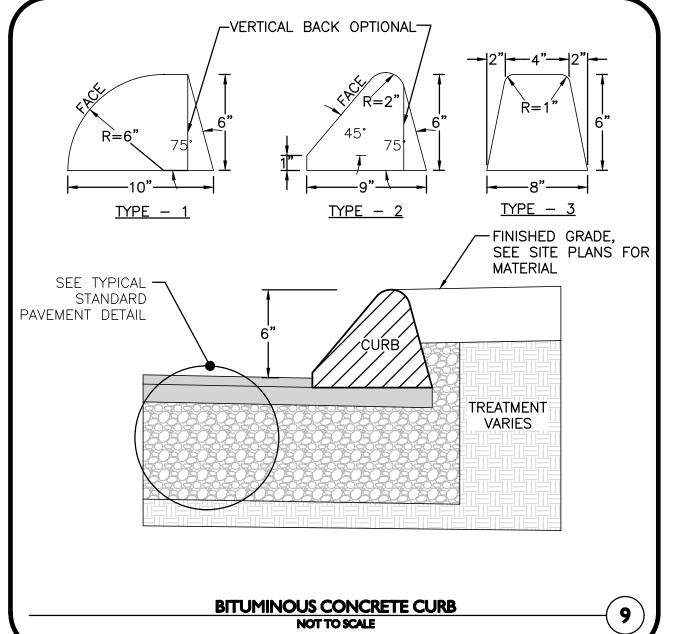
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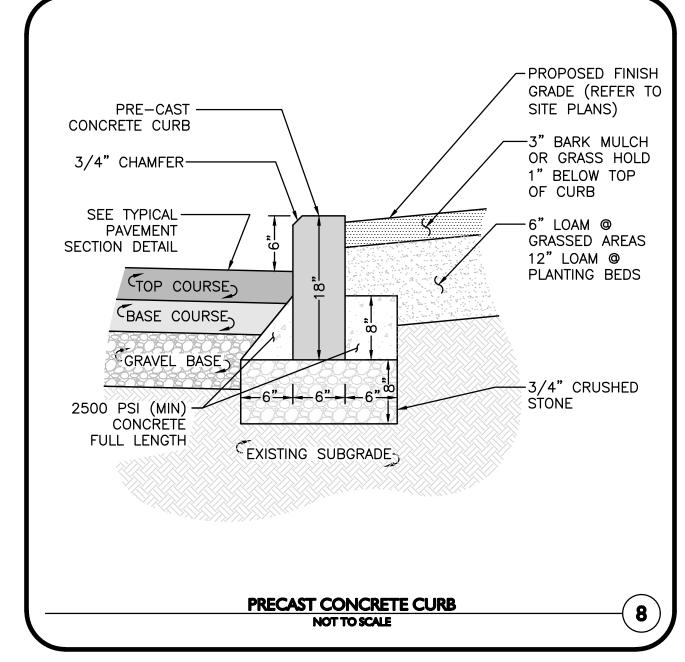
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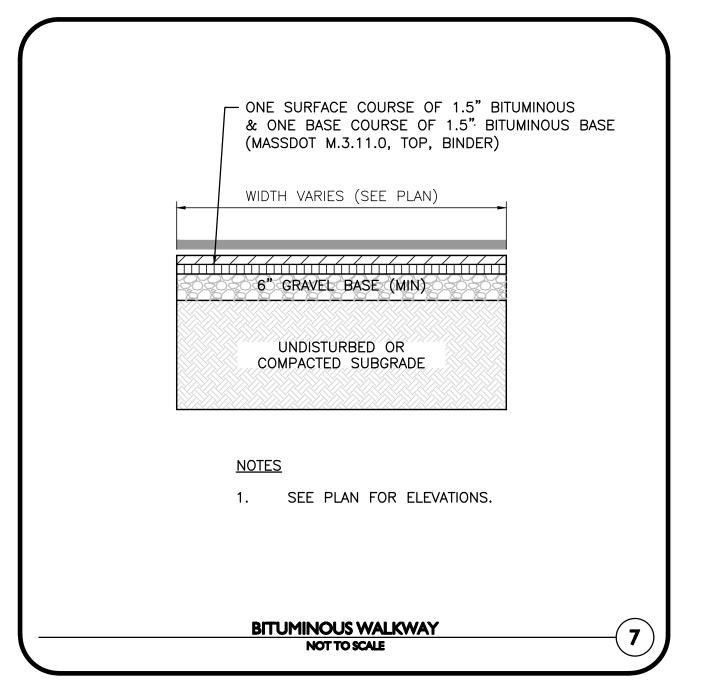
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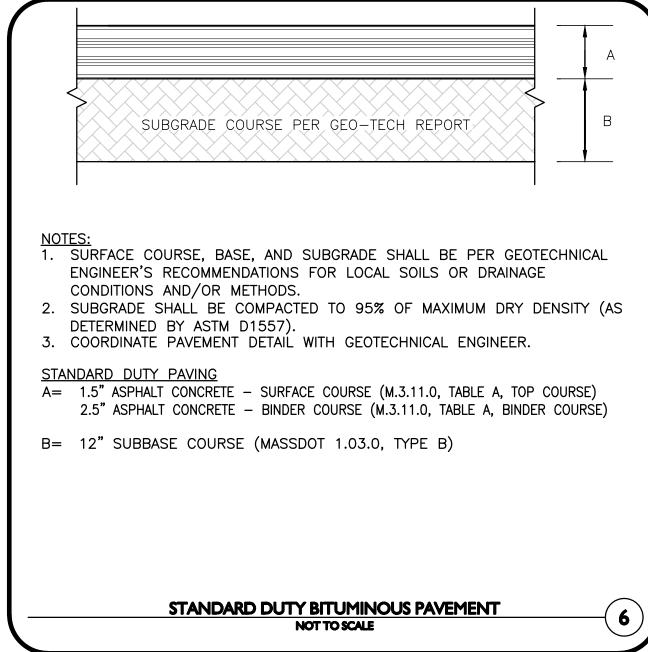
UTILITIES PLAN C-112

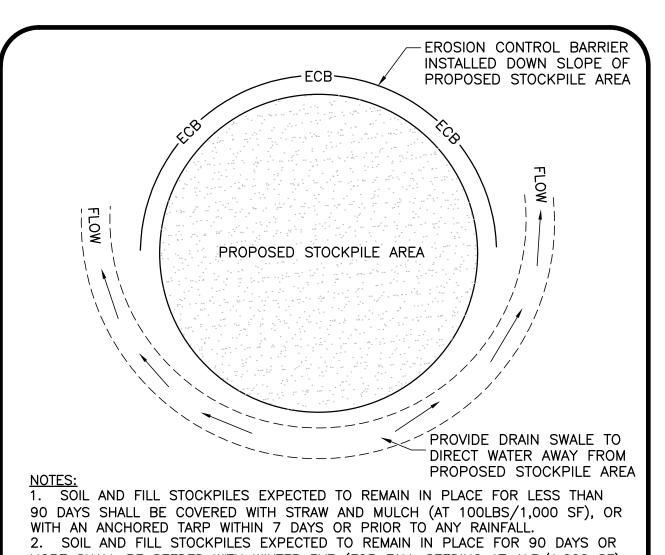






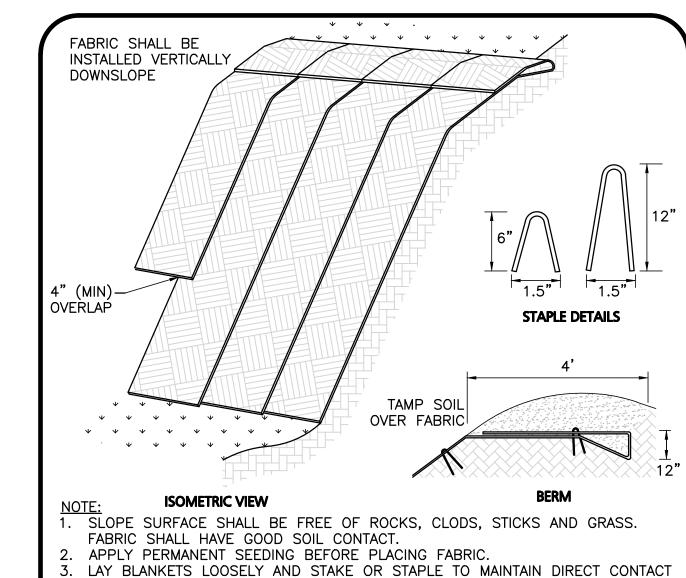






MORE SHALL BE SEEDED WITH WINTER RYE (FOR FALL SEEDING AT 1LB/1,000 SF) OR OATS (FOR SUMMER SEEDING AT 2LB/1,000 SF) AND THEN COVERED WITH HAY MULCH (AT 100LB/1,000 SF) OR AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.

> STOCKPILE PROTECTION NOT TO SCALE

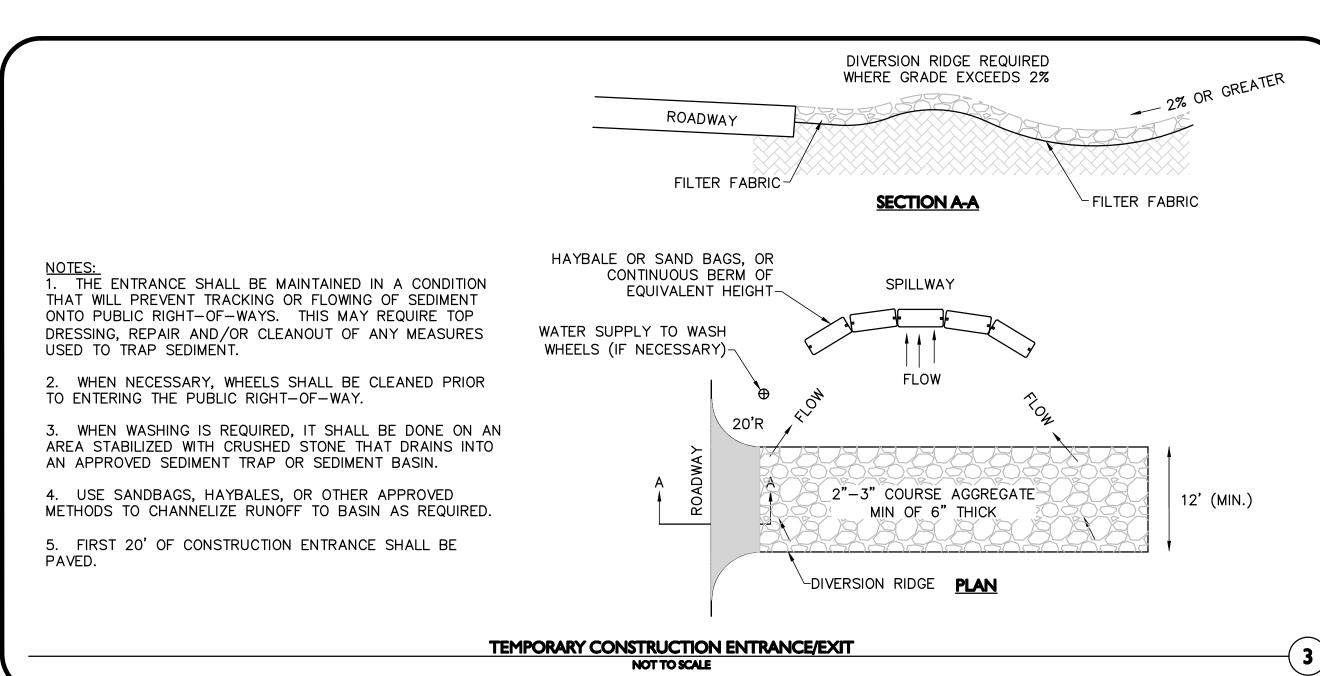


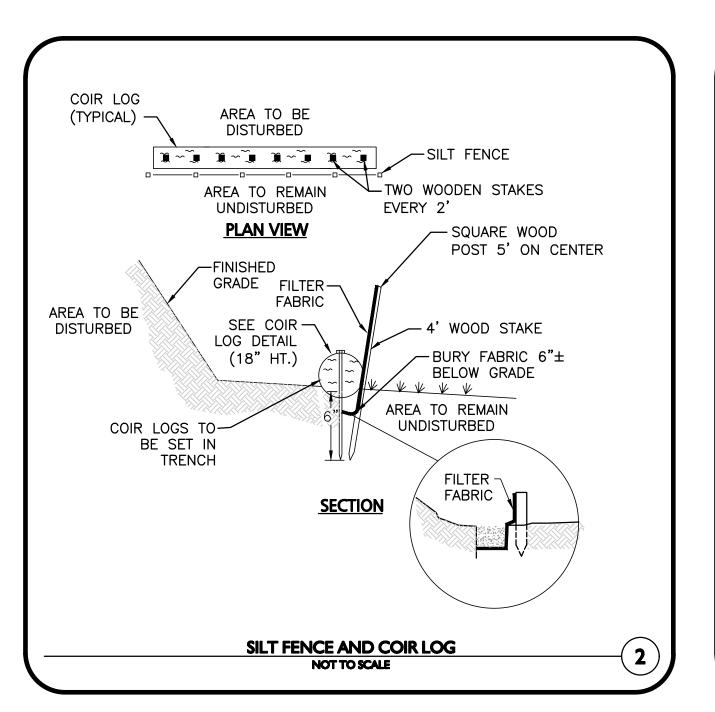
WITH THE SOIL. DO NOT STRETCH

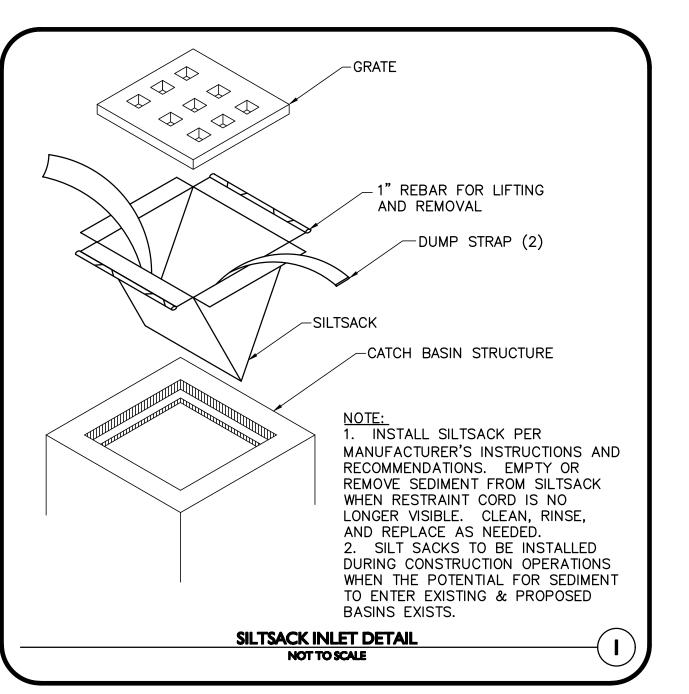
4. CHOOSE MATERIAL BASED ON SLOPE, SOILS, AND APPLICATION.

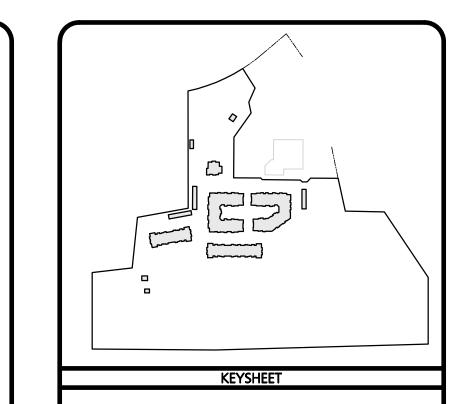
EROSION CONTROL FABRIC

NOT TO SCALE









ISSUED FOR COMPREHENSIVE PERMIT APPLICATION **SEPTEMBER 10, 2021**



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC.

91 HARTWELL AVENUE, 3RD FLOOR LEXINGTON, MA 02421

PROJECT: PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY**

580 MAIN STREET BOLTON, MA

1670-15 DATE: PROJECT NO. 09-10-2021 AS SHOWN DWG. NAME: C1670-1!

DESIGNED BY: JPS | CHECKED BY:

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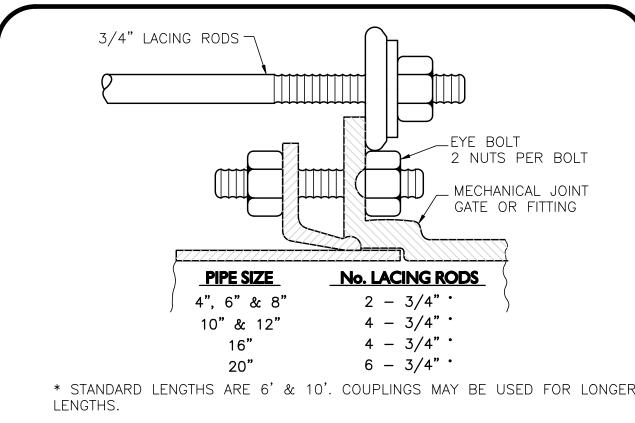
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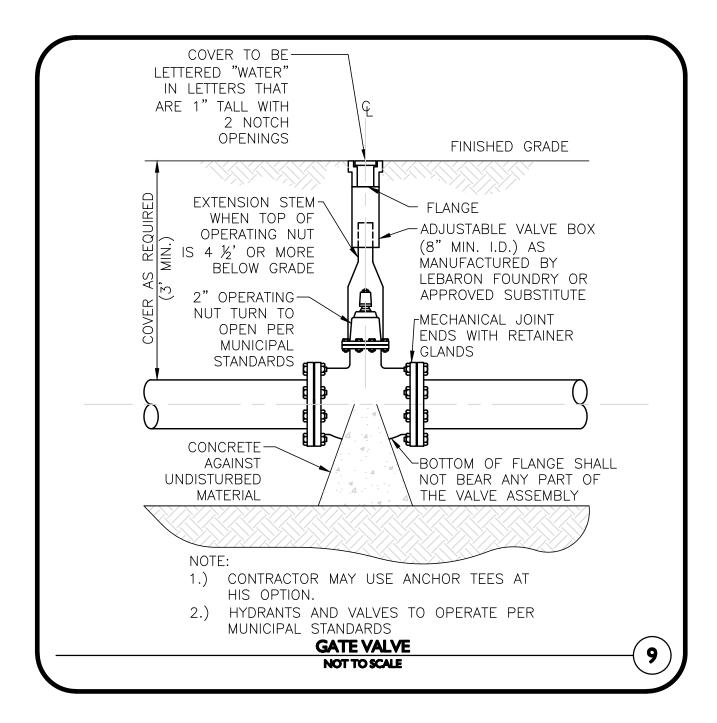
C-501

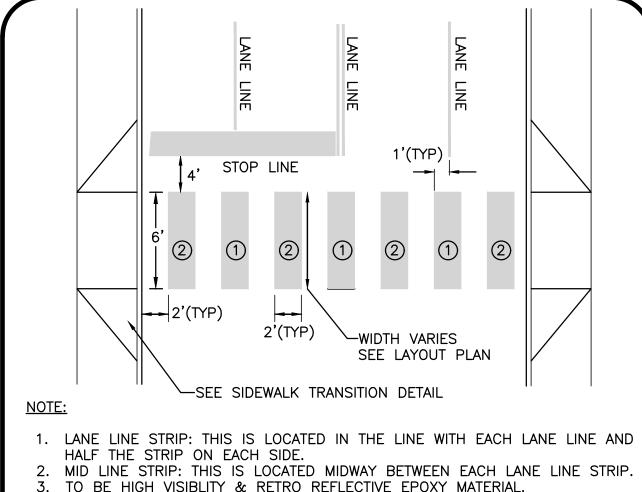


* STANDARD LENGTHS ARE 6' & 10'. COUPLINGS MAY BE USED FOR LONGER NOTES:

- 1. NUMBER OF LACING RODS IS BASED ON MAXIMUM PRESSURE OF 125 P.S.I. IN MAIN.
- 2. EYE-BOLTS AND LACING RODS ARE TO BE FABRICATED FROM A-36 STEEL. 3. STEEL LACING RODS SHALL HAVE A YIELD STRESS OF NOT LESS THAN 36,000 P.S.I.
- 4. EYE-BOLTS SHALL HAVE A MINIMUM TENSILE STRENGTH OF 7,000 LBS. EACH.

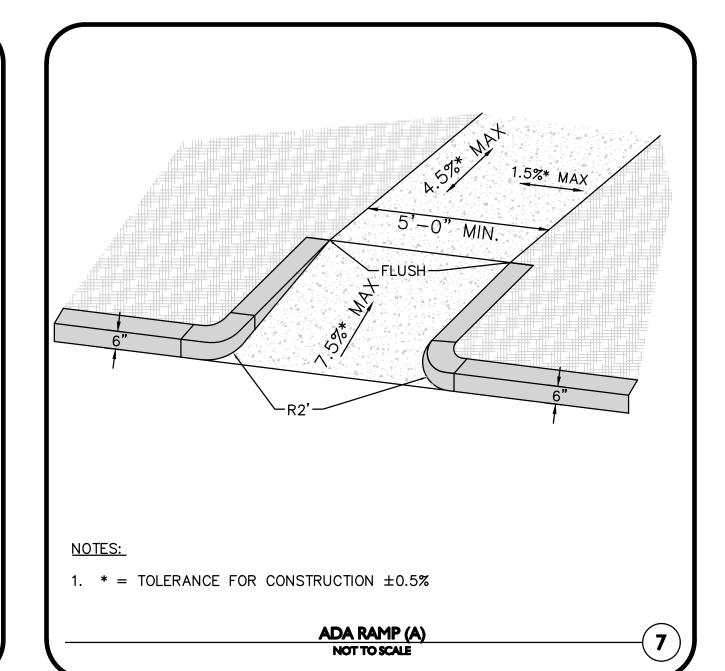
MECHANICAL JOINT LACING DETAIL NOT TO SCALE

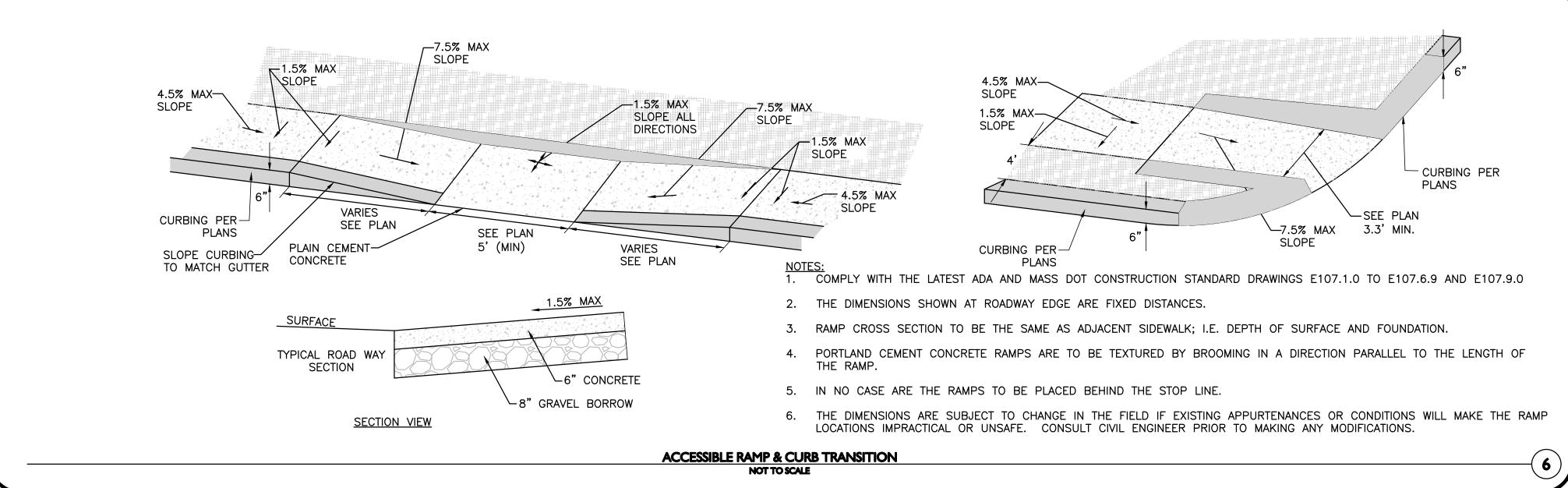


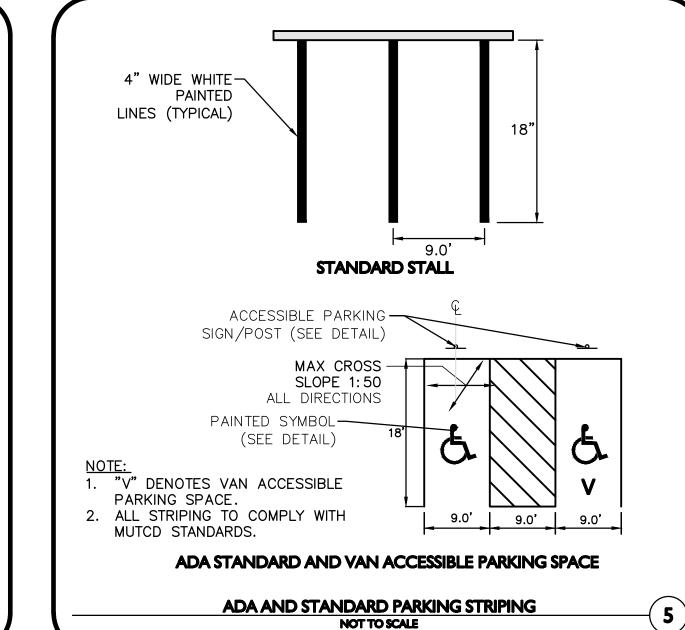


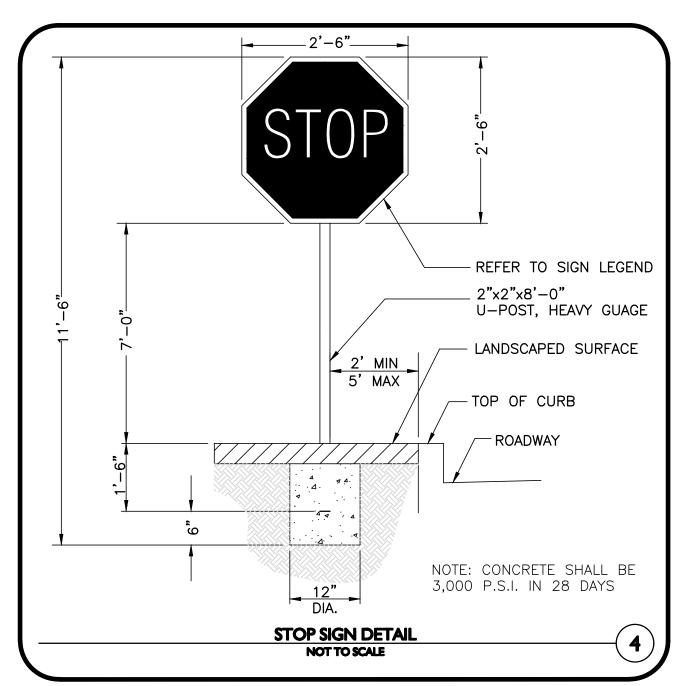
- 4. TO BE PAINTED YELLOW.
- 5. CROSSWALKS AT MAJOR INTERSECTIONS TO BE 10' WIDE.
- 6. ALL STRIPING SHALL COMPLY WITH MUTCD STANDARDS.
 - **CROSSWALK STRIPING**

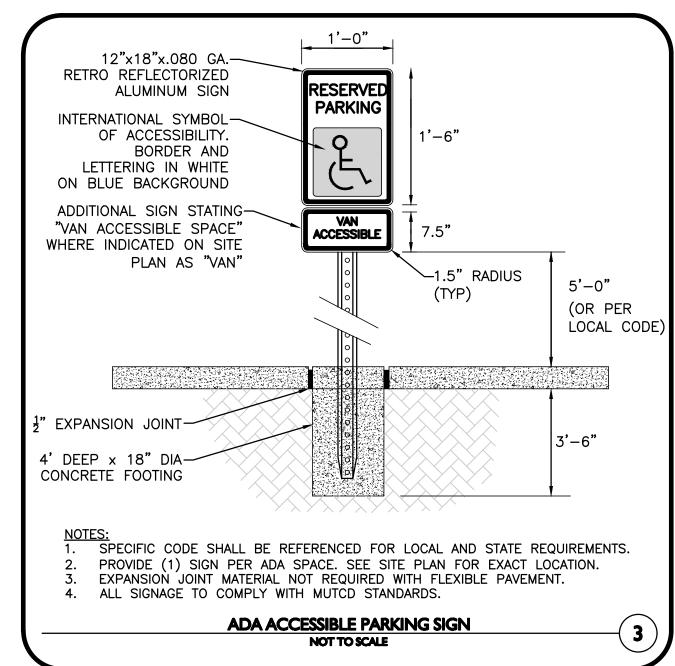
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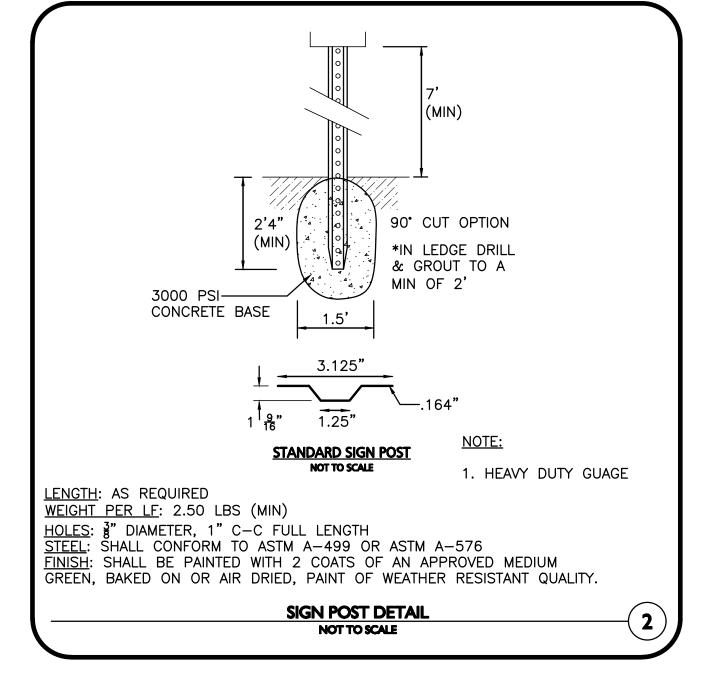


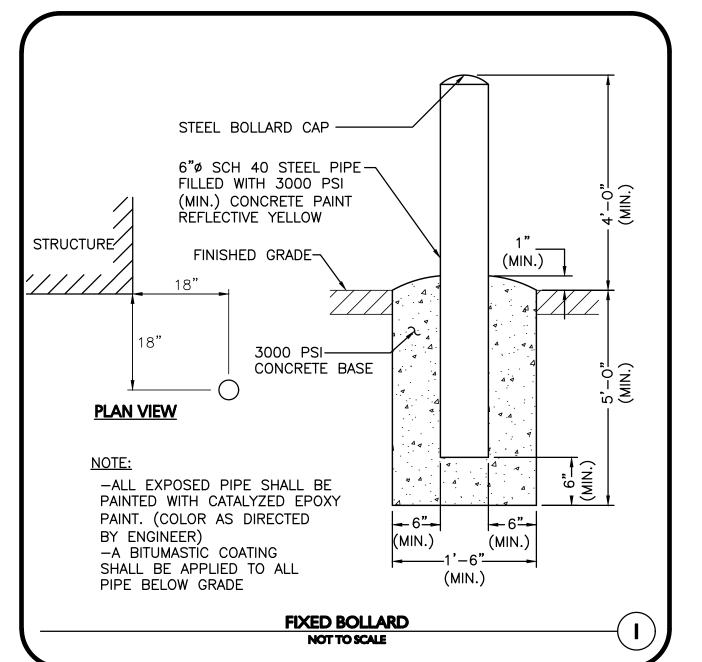


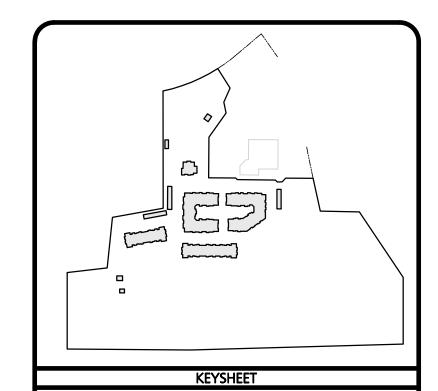












ISSUED FOR COMPREHENSIVE PERMIT APPLICATION **SEPTEMBER 10, 2021**



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION APPLICANT\OWNER: LIMITED DIVIDEND AFFILIATE OF WP EAST ACQUISITIONS, LLC.

LEXINGTON, MA 02421 PROJECT:

DESIGNED BY:

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY** 580 MAIN STREET BOLTON, MA

91 HARTWELL AVENUE, 3RD FLOOR

PROJECT NO. 1670-15 DATE:

AS SHOWN DWG. NAME: C1670-1!

JPS | CHECKED BY:

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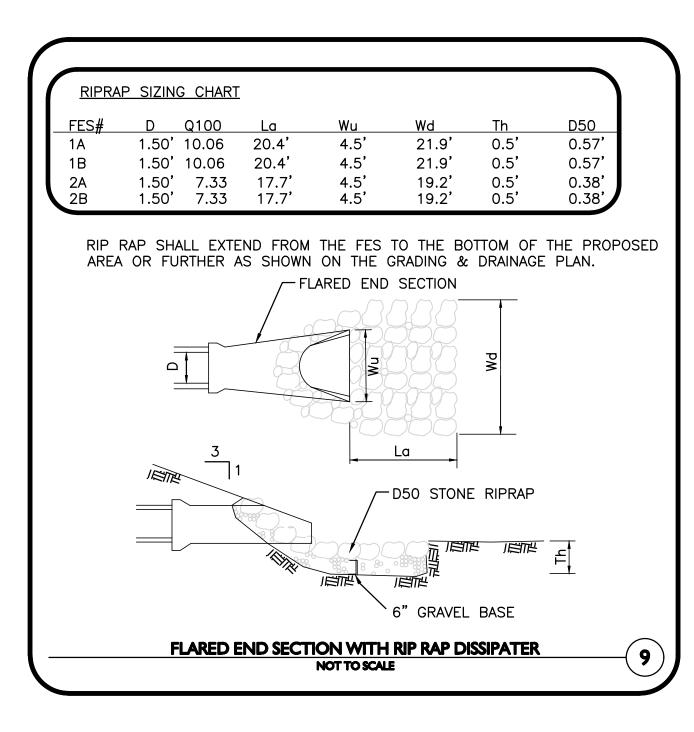
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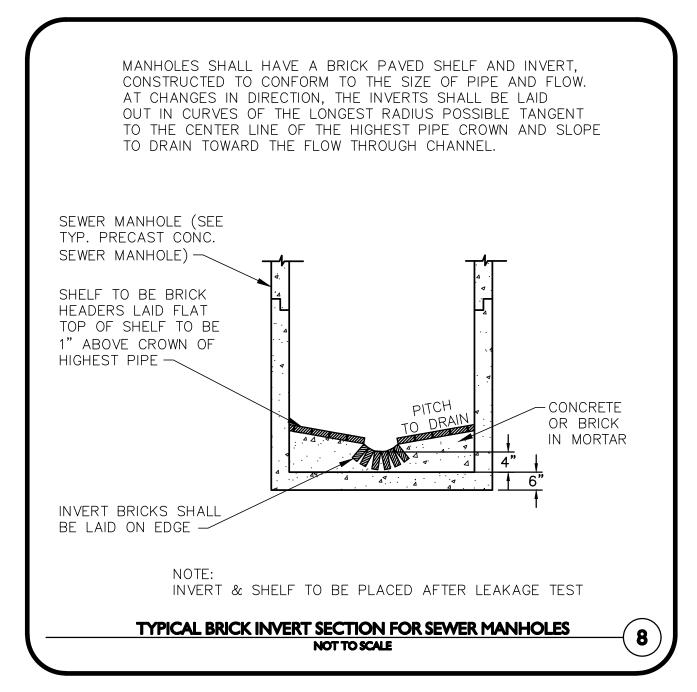
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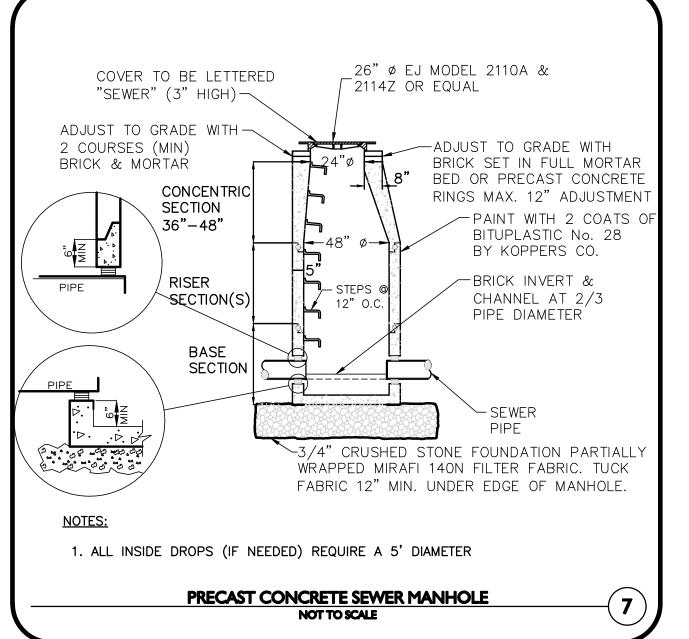
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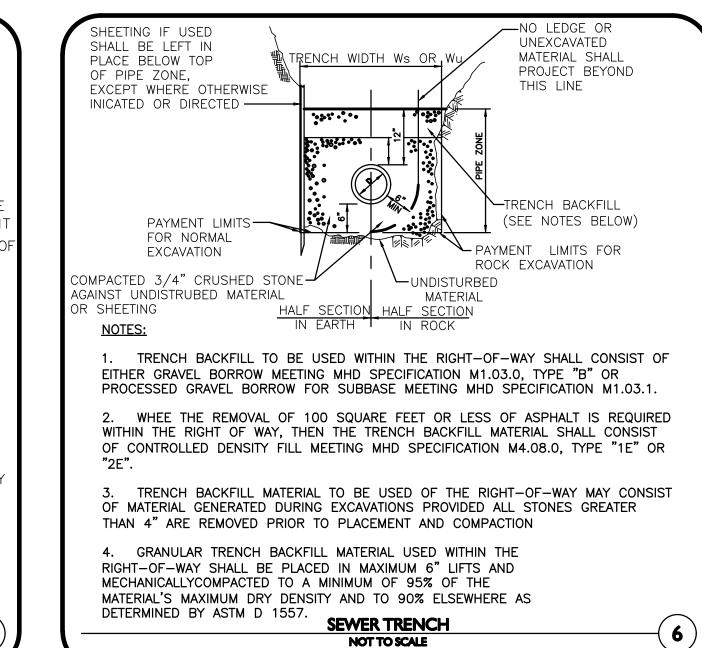
SHEET No.

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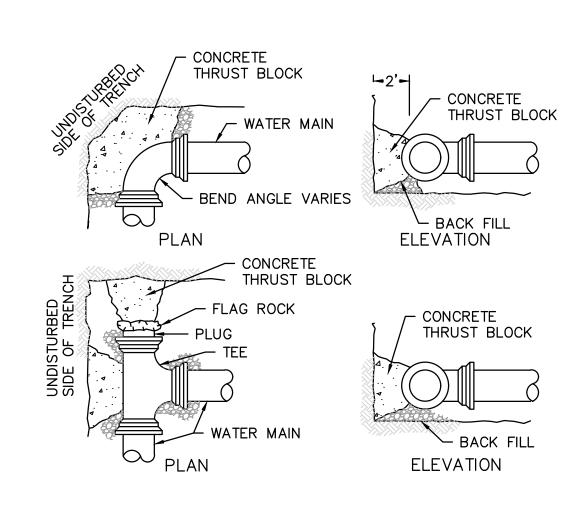


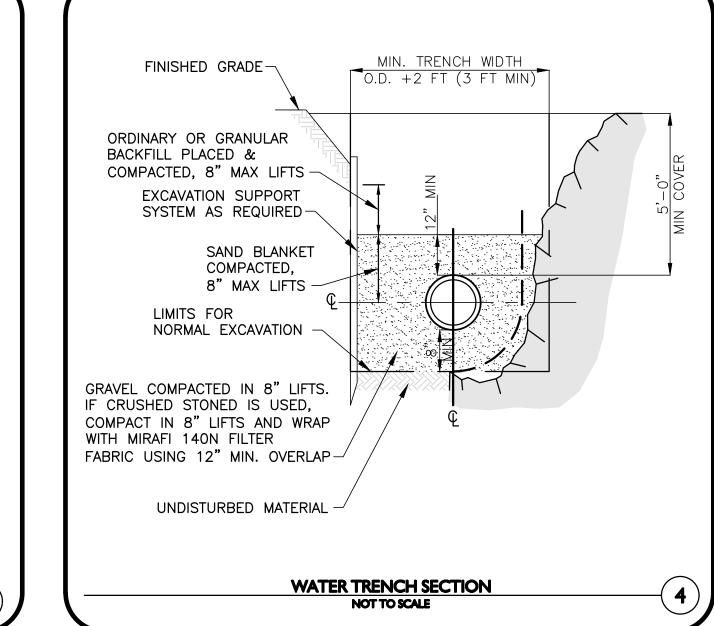


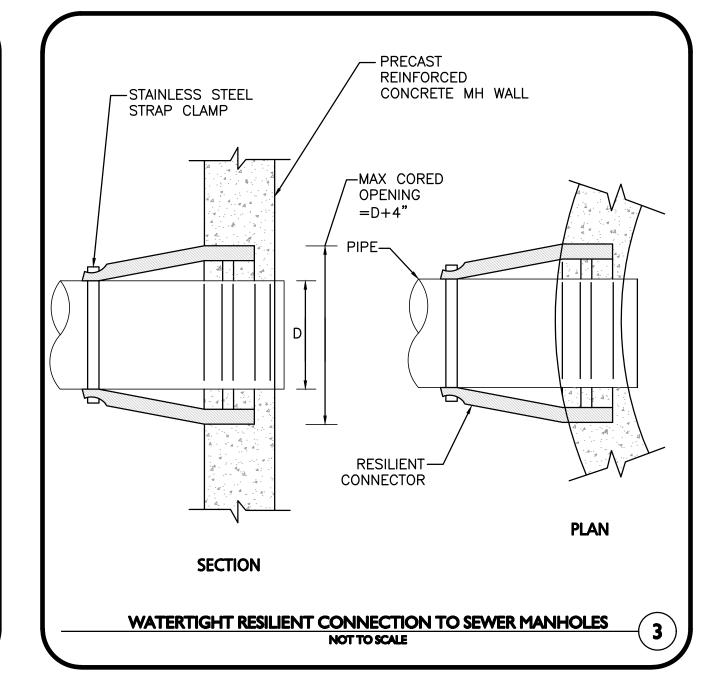
| MINIMUM THRUST BLOCK BEARING AREAS | | | | | |
|----------------------------------------------------------------------------------------------|----|----|---|----|--|
| PIPE90° BEND45° BEND22.5° BENDTEES, PLUGS, CAPS &DIAMETER(SQ. FT.)(SQ. FT.)HYDRANTS (SQ.FT.) | | | | | |
| 6 " | 5 | 3 | 3 | 4 | |
| 8" | 9 | 6 | 3 | 9 | |
| 10" | 13 | 7 | 4 | 12 | |
| 12" | 20 | 10 | 5 | 16 | |

- 1. ALL WATER MAIN FITTINGS, BENDS, TEES, PLUGS ETC. SHALL BE RESTRAINED
- W/ THRUST BLOCKS EXCEPT WHERE NOTED. 2. ALL THRUST BLOCKS & COLLARS SHALL BE INSTALLED SO THAT THEY BEAR AGAINST UNDISTURBED EARTH.
- SIZE OF CONCRETE THRUST BLOCKS SHALL BE AS NOTED BELOW.
- 4. MINIMUM COMPRESSIVE STRENGTH OF THRUST BLOCK CONCRETE SHALL BE 5. KEEP CONCRETE CLEAR OF MECHANICAL JOINTS.
- THE BELOW PREDICATED ON A WATER PRESSURE OF 225 PSI AND A SOIL RESISTANCE OF 2000 PSF (TILL). FOR OTHER SOILS THE VALUES IN THE ABOVE TABLE SHALL BE MULTIPLIED BY:

SOFT CLAY SAND SAND & GRAVEL 1.33



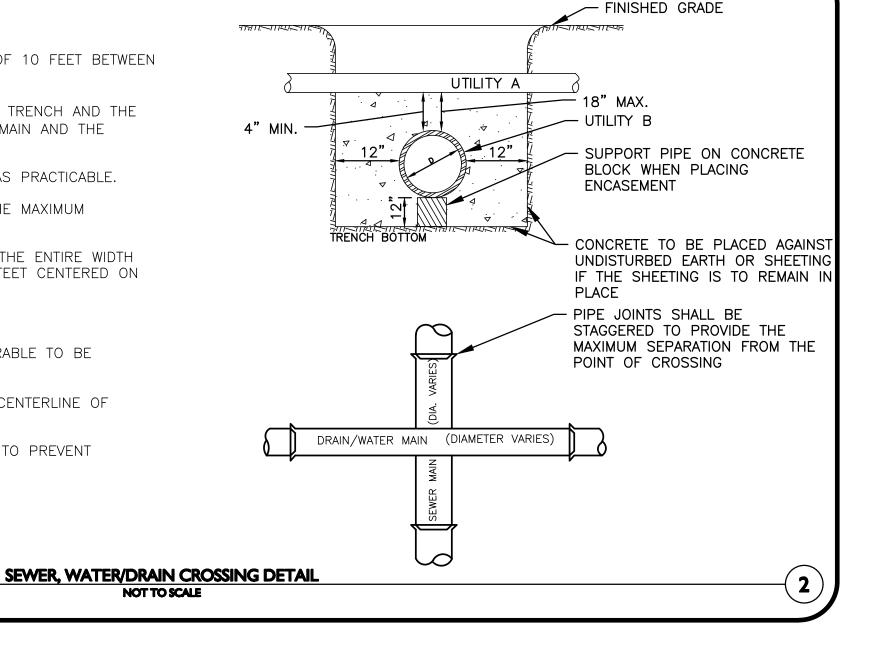


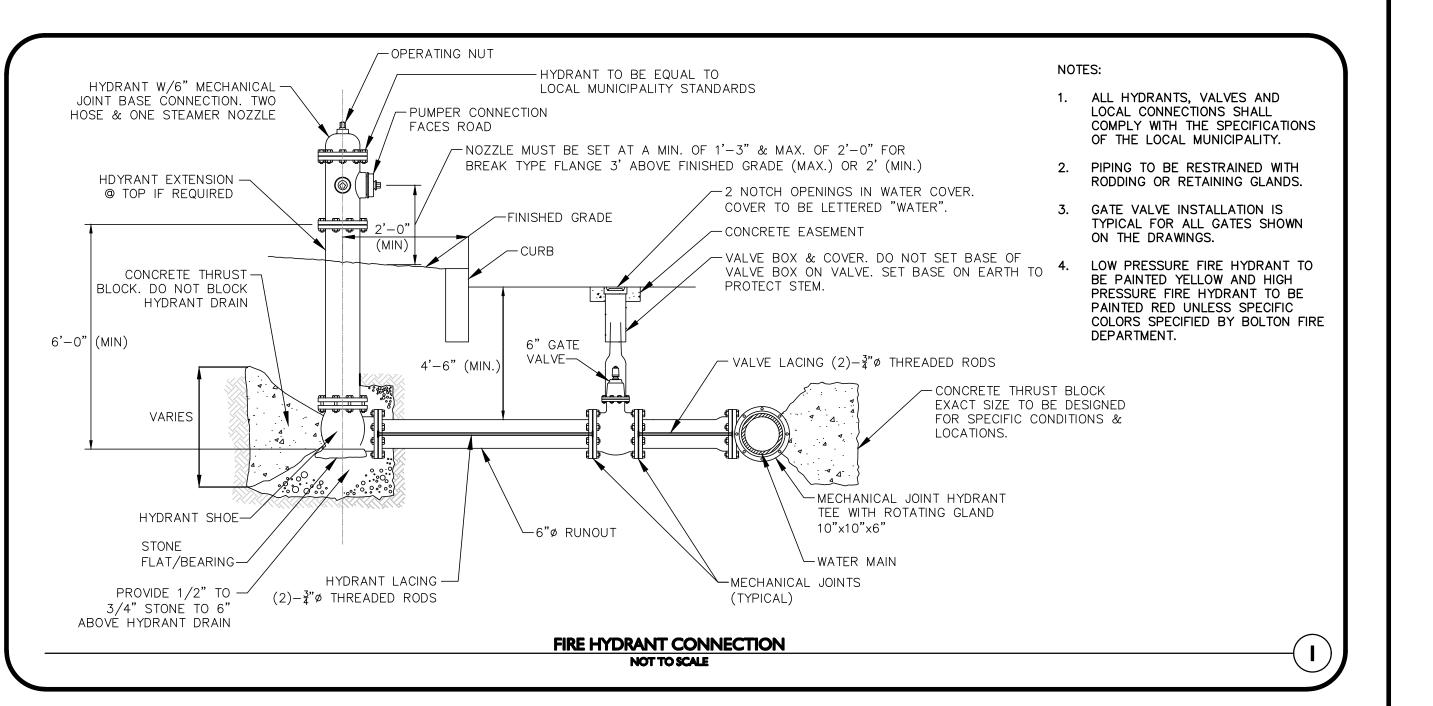


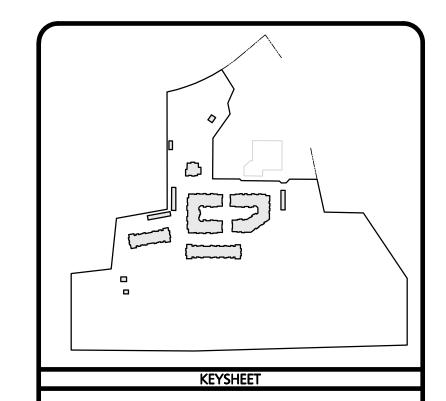
THRUST BLOCK DETAIL NOT TO SCALE



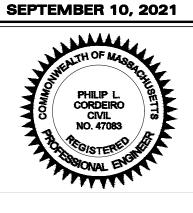
- 1. THE WATER/DRAIN MAIN SHALL BE LAID IN A SEPARATE TRENCH AND THE DIFFERENCE IN ELEVATION BETWEEN THE WATER/DRAIN MAIN AND THE SEWER MAIN SHALL BE AT LEAST 18 INCHES.
- 2. THE PIPE CROSSING SHALL OCCUR AS CLOSE TO 90° AS PRACTICABLE.
- 3. THE PIPE JOINTS SHALL BE STAGGERED TO PROVIDE THE MAXIMUM SEPARATION FROM THE POINT OF CROSSING.
- 4. THE CROSSING SHALL BE ENCASED IN CONCRETE FOR THE ENTIRE WIDTH OF THE TRENCH AND FOR A DISTANCE OF 10 LINEAR FEET CENTERED ON THE CROSSING.
- 5. UTILITIES A AND B CAN BE EITHER NEW OR EXISTING.
- 6. WHEN ONE UTILITY IS A SANITARY SEWER. IT IS PREFERABLE TO BE POSITIONED AS SHOWN FOR UTILITY B.
- 7. ENCASEMENT EXTENDS 10'-0" ON EACH SIDE OF THE CENTERLINE OF UTILITY A.
- 8. PIPE MUST BE BRACED VERTICALLY AND HORIZONTALLY TO PREVENT FLOATATION DURING PLACEMENT OF CONCRETE.







ISSUED FOR COMPREHENSIVE PERMIT APPLICATION



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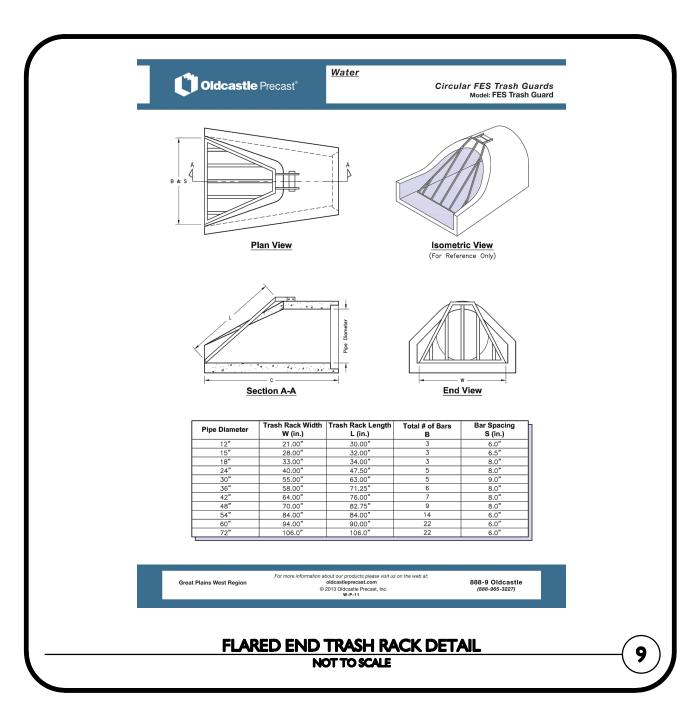
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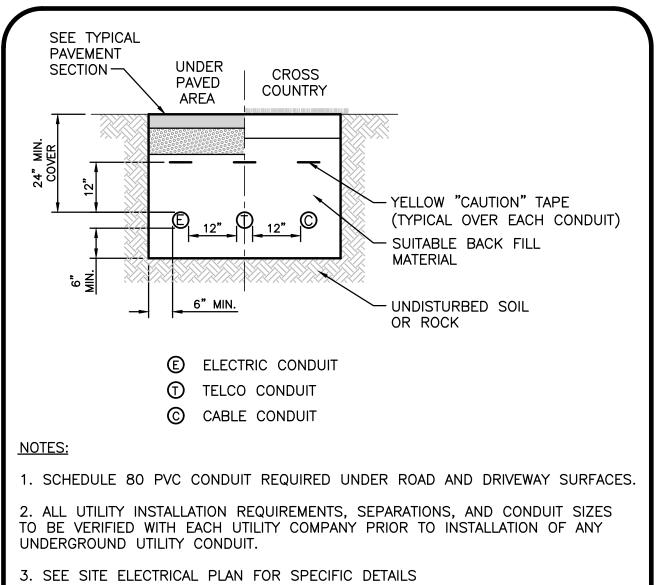
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C-503

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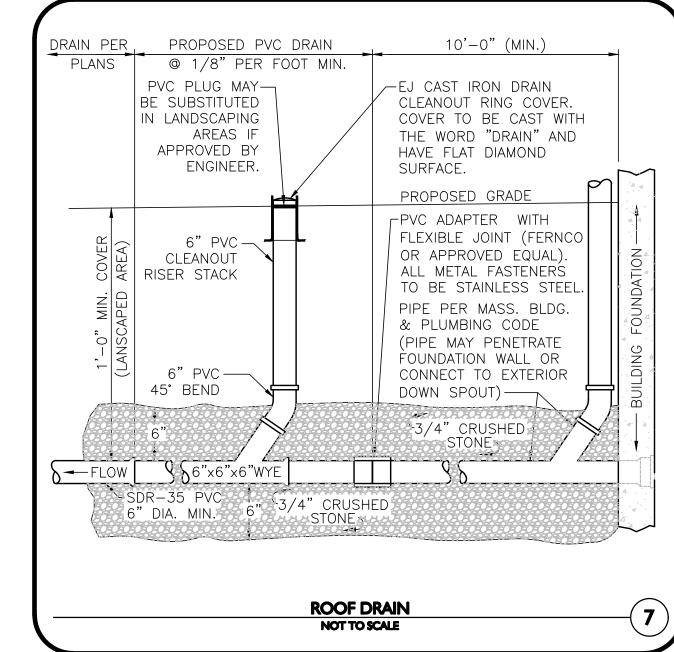
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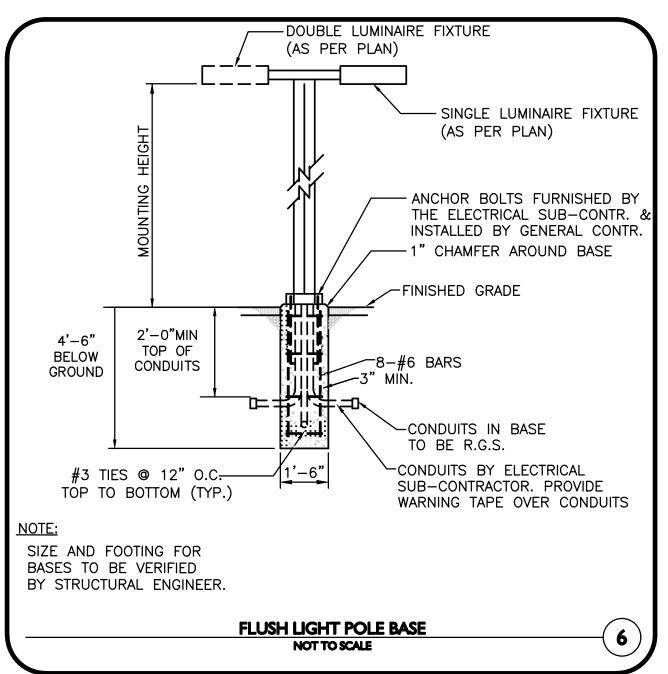


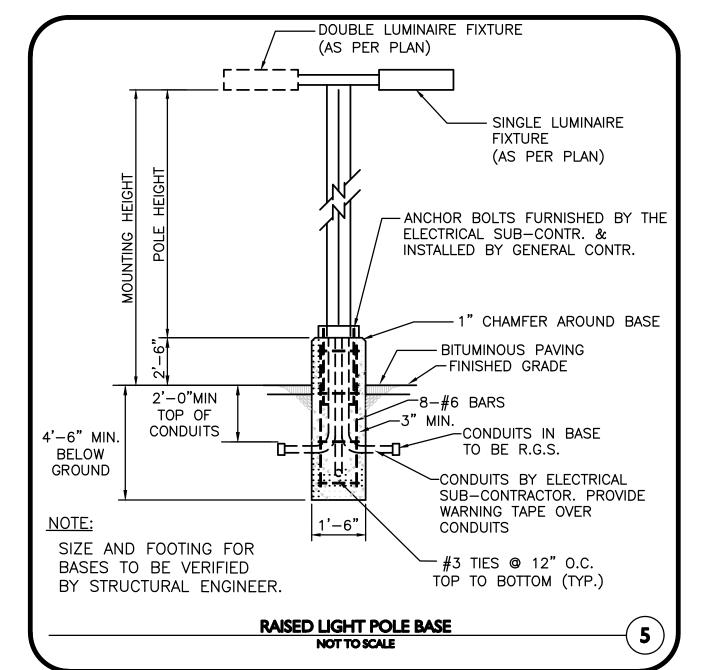


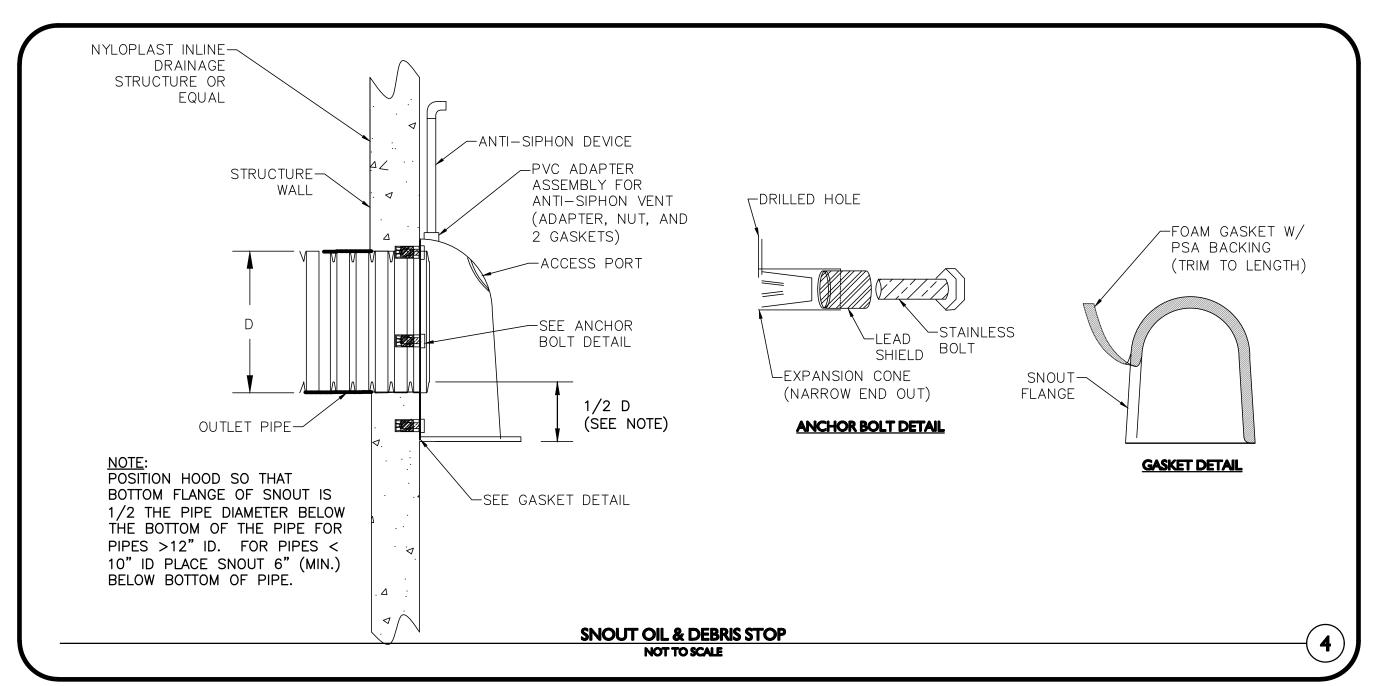
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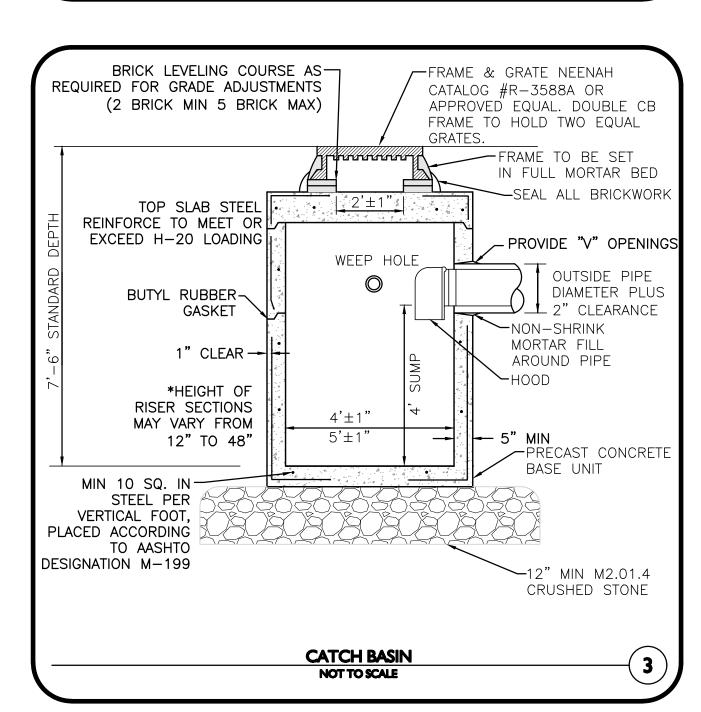
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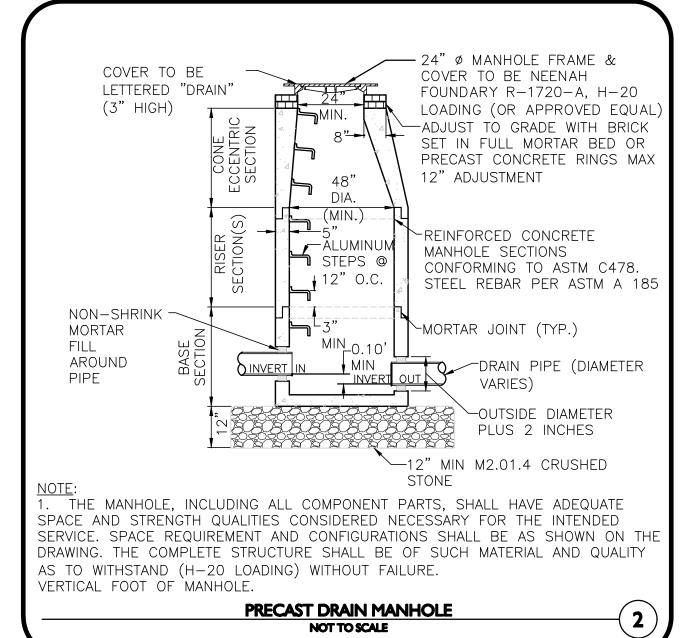


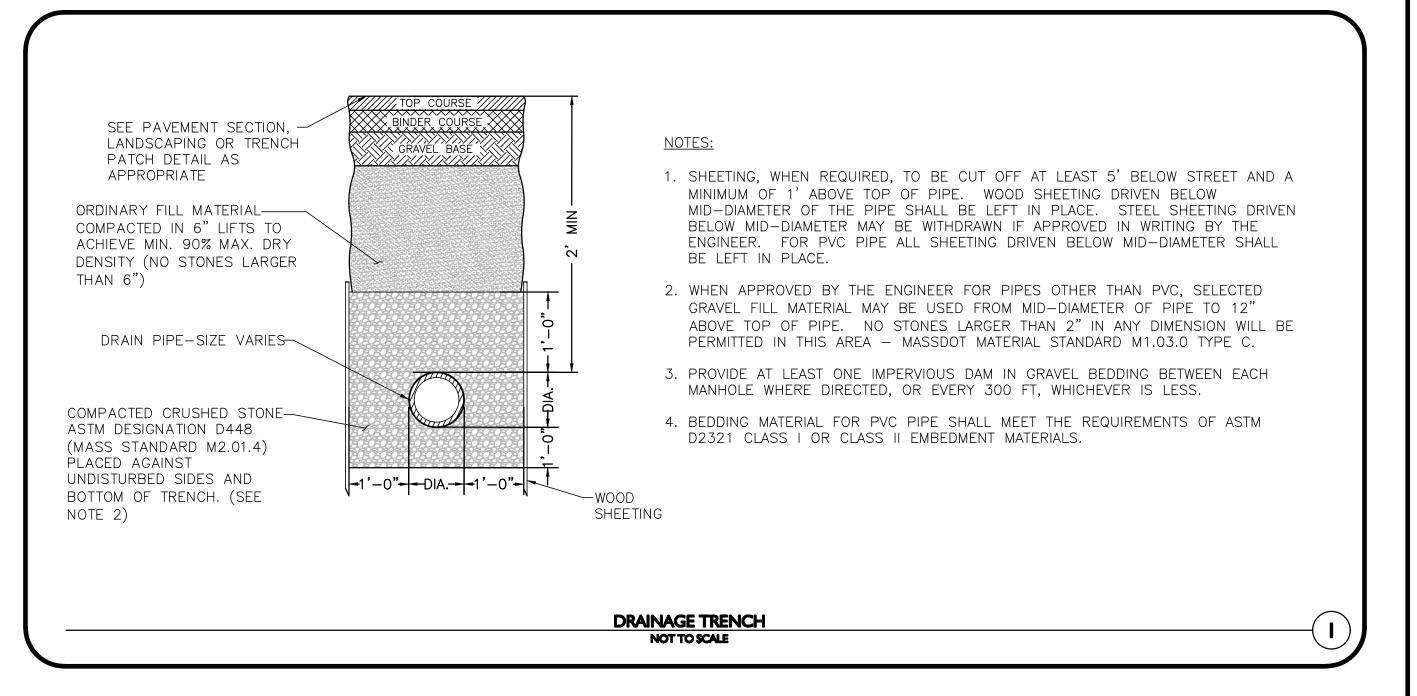


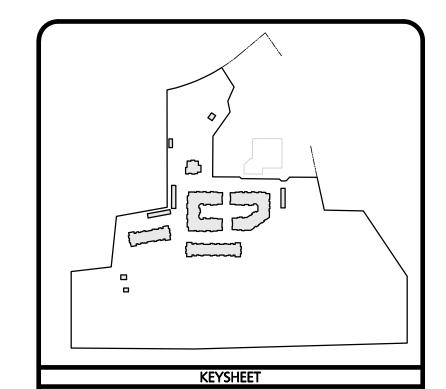




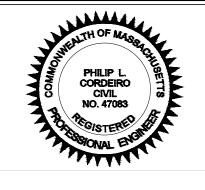








ISSUED FOR
COMPREHENSIVE
PERMIT APPLICATION
SEPTEMBER 10, 2021



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV DATE DESCRIPTION

APPLICANT\OWNER:

LIMITED DIVIDEND AFFILIATE OF

WP EAST ACQUISITIONS, LLC.

91 HARTWELL AVENUE, 3RD FLOOR

LEXINGTON, MA 02421
PROJECT:

PRELIMINARY APPLICATION
FOR COMPREHENSIVE PERMIT
ALTA NASHOBA VALLEY
580 MAIN STREET BOLTON, MA

PROJECT NO. 1670-15 DATE:

SCALE: AS SHOWN DWG. NAME: C1670-1!

DESIGNED BY: JPS CHECKED BY: PLO

09-10-2021



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DRAWING TITLE:

DETAILS

C-504

- CHAMBERS SHALL BE STORMTECH SC-740, SC-310, OR
- APPROVED EQUAL. CHAMBERS SHALL BE MANUFACTURED FROM VIRGIN
- POLYPROPYLENE OR POLYETHYLENE RESINS. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORT PANELS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL MEET ASTM F2922 (POLYETHYLENE) OR ASTM F2418 (POLYPROPYLENE), "STANDARD SPECIFICATION FOR THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
- CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOADS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC
- CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". ONLY CHAMBERS APPROVED WILL BE ALLOWED. THE CHAMBER MANUFACTURER SHALL SUBMIT THE FOLLOWING UPON REQUEST TO THE SITE DESIGN ENGINEER FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY AASHTO FOR THERMOPLASTIC PIPE.
- A STRUCTURAL EVALUATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER THAT DEMONSTRATES THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET. THE 50 YEAR CREEP MODULUS DATA SPECIFIED IN ASTM F2418 OR ASTM F2922 MUST BE USED AS PART OF THE AASHTO STRUCTURAL EVALUATION TO VERIFY LONG-TERM PERFORMANCE.
- STRUCTURAL CROSS SECTION DETAIL ON WHICH THE STRUCTURAL EVALUATION IS BASED.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.
- ISOLATOR ROWS WILL BE DENOTED BY YELLOW ON THE SITE

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-310/SC-740 SYSTEM

- 1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL NOT BE
- INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS. 2. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-780 CONSTRUCTION GUIDE".
- 3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.

STORMTECH RECOMMENDS 3 BACKFILL METHODS:

- STONESHOOTER LOCATED OFF THE CHAMBER BED. BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE
- FOUNDATION STONE OR SUB-GRADE. BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM
- HOE OR EXCAVATOR. 4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED
- PRIOR TO PLACING CHAMBERS. 5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR
- TO PLACING STONE. 6. MAINTAIN MINIMUM - 6" SPACING BETWEEN THE CHAMBER ROWS. 7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN,
- CRUSHED, ANGULAR STONE 3/4-2". 8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE
- SITE DESIGN ENGINEER. 9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

- 1. STORMTECH SC-310 & SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-310 & SC-740
- CHAMBERS IS LIMITED: NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
- 3. FULL 36" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

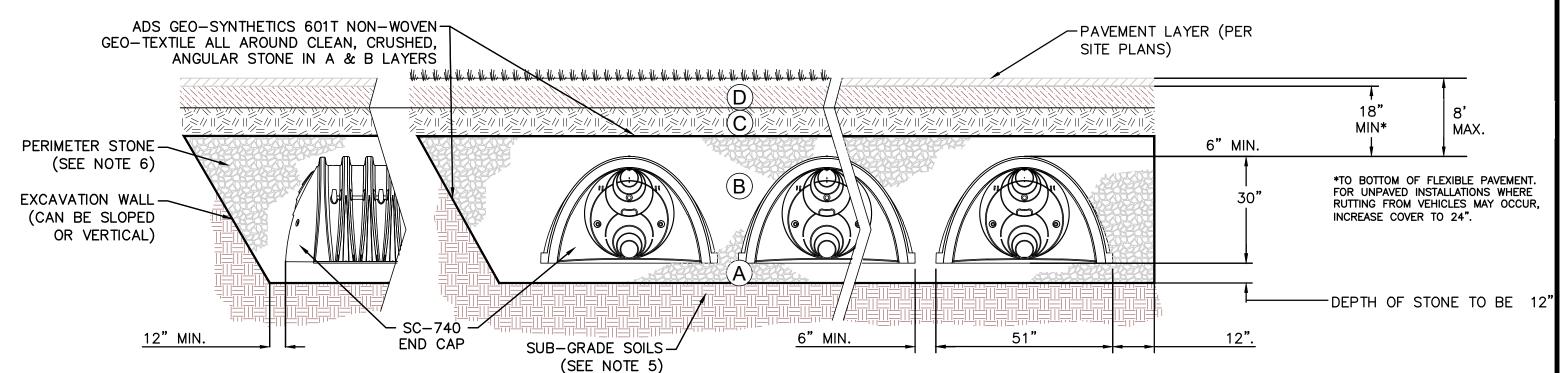


70 INWOOD ROAD, SUITE 3 | ROCKY HILL | CT | 06067 860-529-8188 | 888-892-2694 | WWW.STORMTECH.COM



| MATERIAL LOCATION | | DESCRIPTION | AASHTO MATERIAL CLASSIFICATIONS | COMPACTION / DENSITY REQUIREMENT |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUB-BASE MAY BE PART OF THE 'D' LAYER | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUB-GRADE REQUIREMENTS. | N/A | PREPARE PER SITE PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| С | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUB-BASE MAY BE A PART OF THE 'C' LAYER. | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUB-BASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 12" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN). |
| В | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE. | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH | AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57 | NO COMPACTION REQUIRED. |
| А | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUB-GRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER. CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH | | AASHTO M43¹ 3, 357, 4, 467, 5, 56, 57 | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 2 3 |

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE:
- "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE". 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



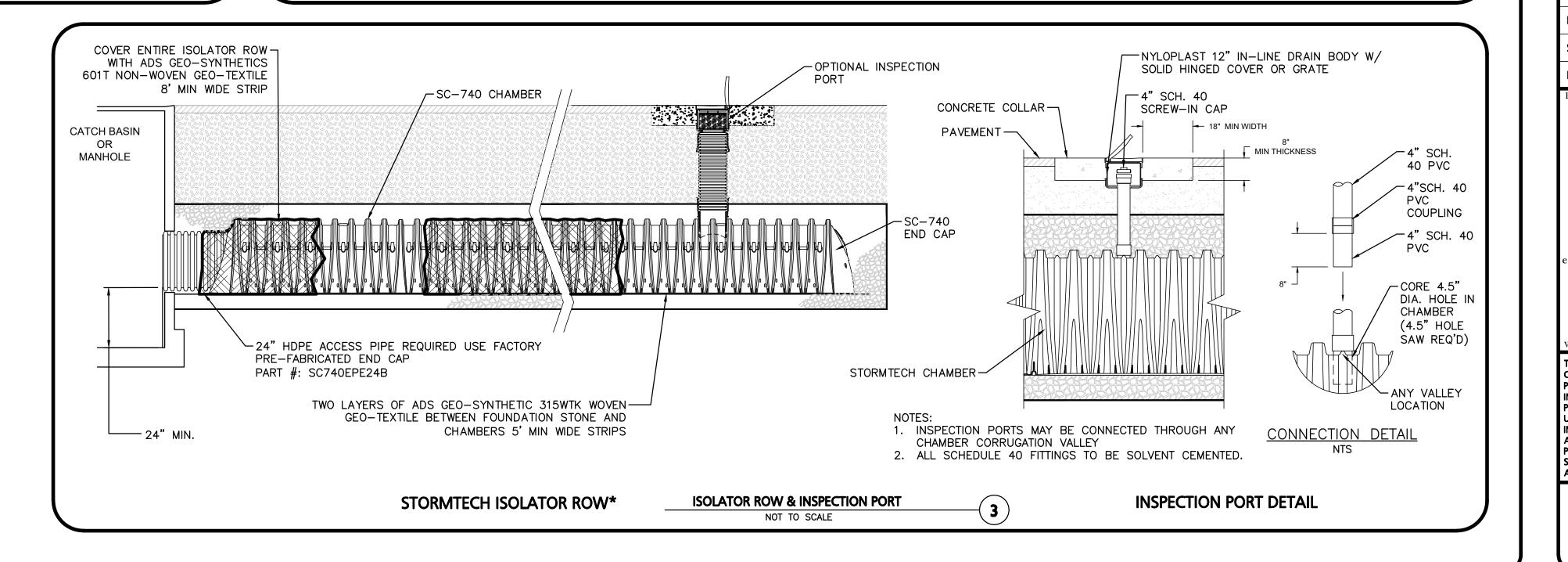
- 1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER
- COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". 2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL
- STORMWATER COLLECTION CHAMBERS". 3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND
- 4. CONTRACTOR IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUB-GRADE SOILS AND THE DEPTH OF FOUNDATION STONE
- WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

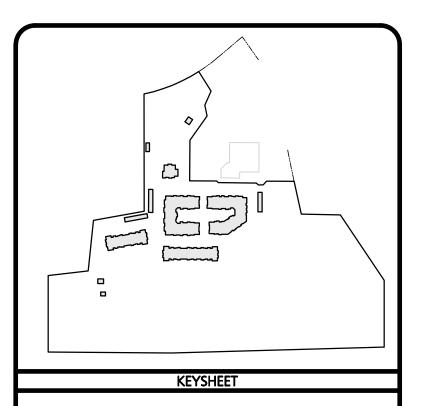
THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS. 6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUB-BASE SOILS CAN BE USED TO REPLACE

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS 2

NOT TO SCALE





ISSUED FOR COMPREHENSIVE PERMIT APPLICATION **SEPTEMBER 10, 2021**



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LEXINGTON, MA 02421 PROJECT:

PRELIMINARY APPLICATION FOR COMPREHENSIVE PERMIT **ALTA NASHOBA VALLEY**

580 MAIN STREET BOLTON, MA

| PROJECT NO. | 1670-15 | DATE: | 09-10-202° |
|--------------|----------|-------------|------------|
| SCALE: | AS SHOWN | DWG. NAME: | C1670-15 |
| DESIGNED BY: | JPS | CHECKED BY: | PLC |



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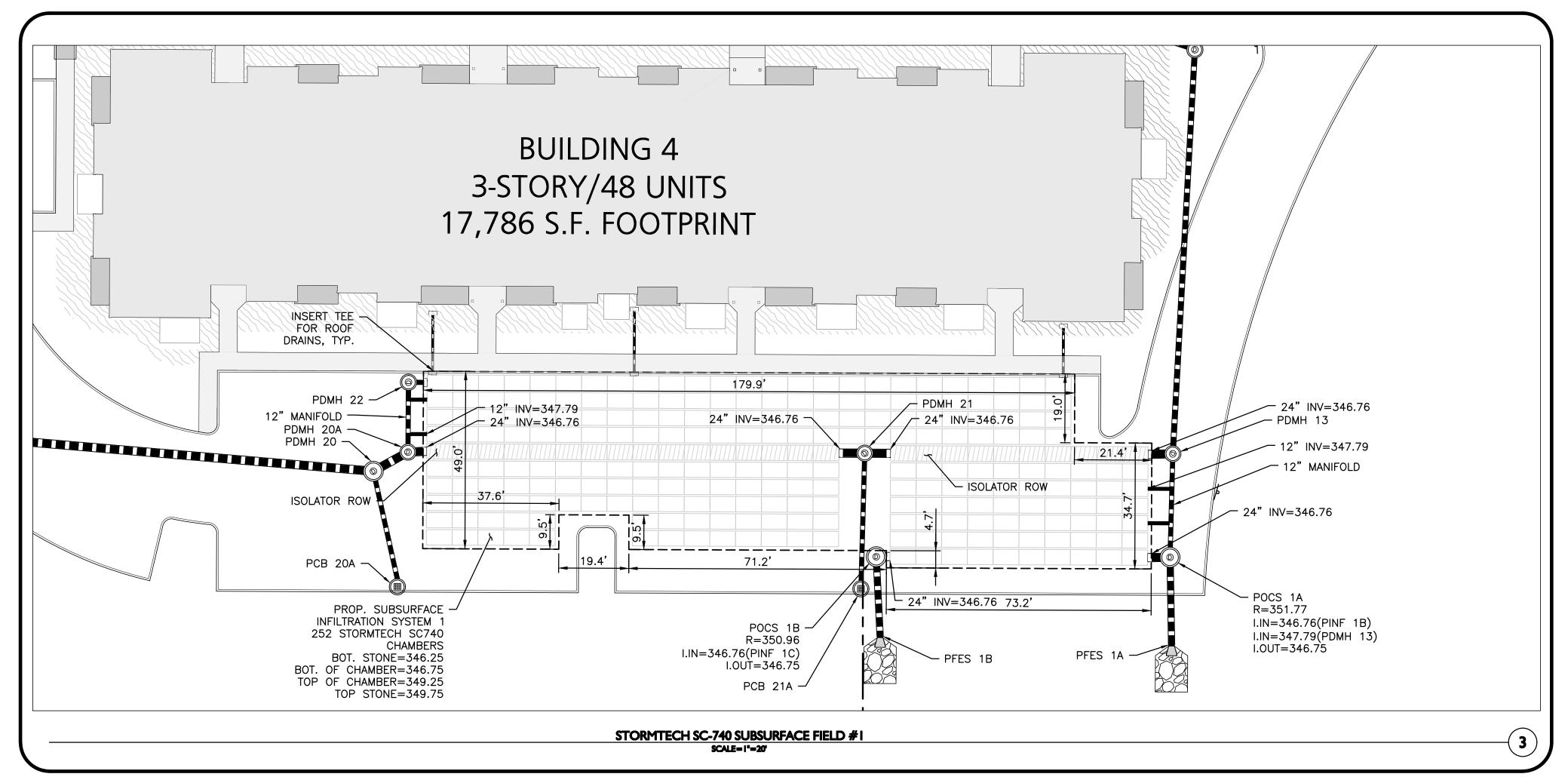
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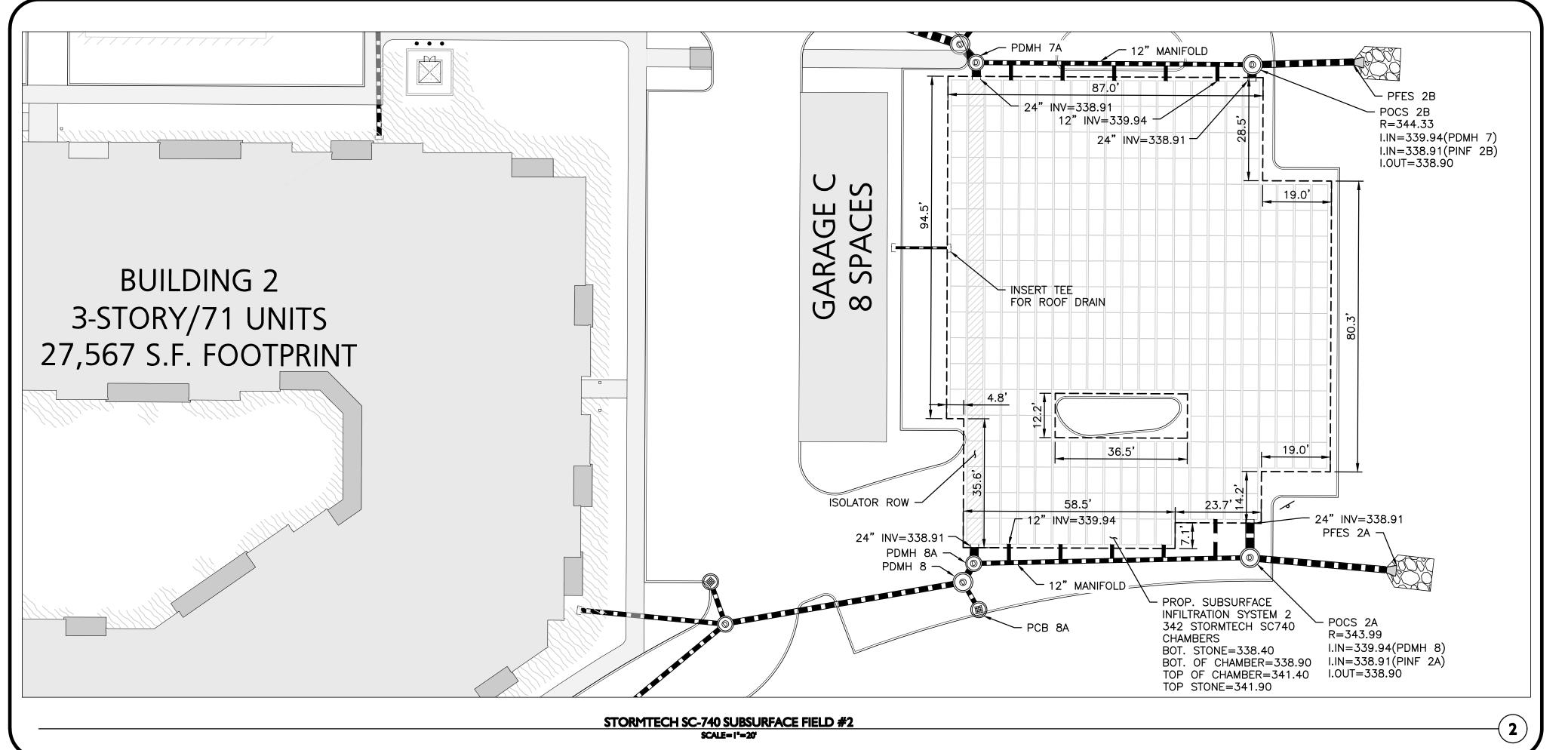
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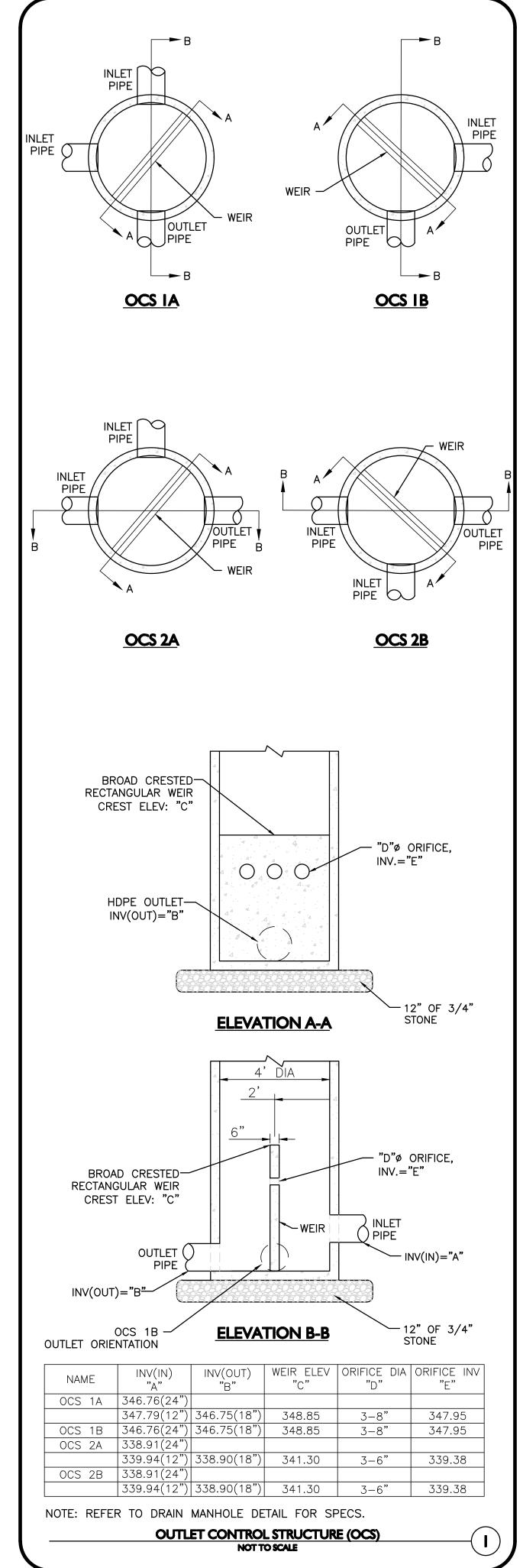
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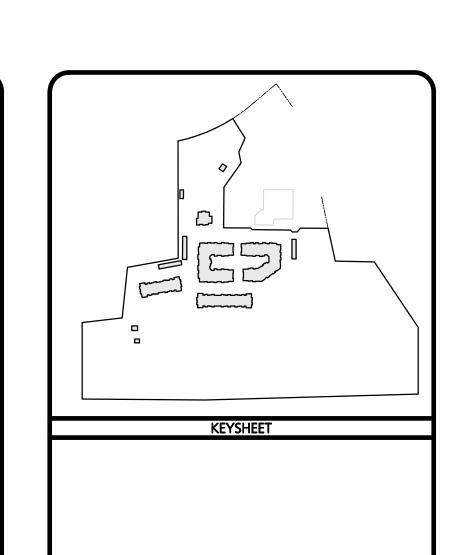
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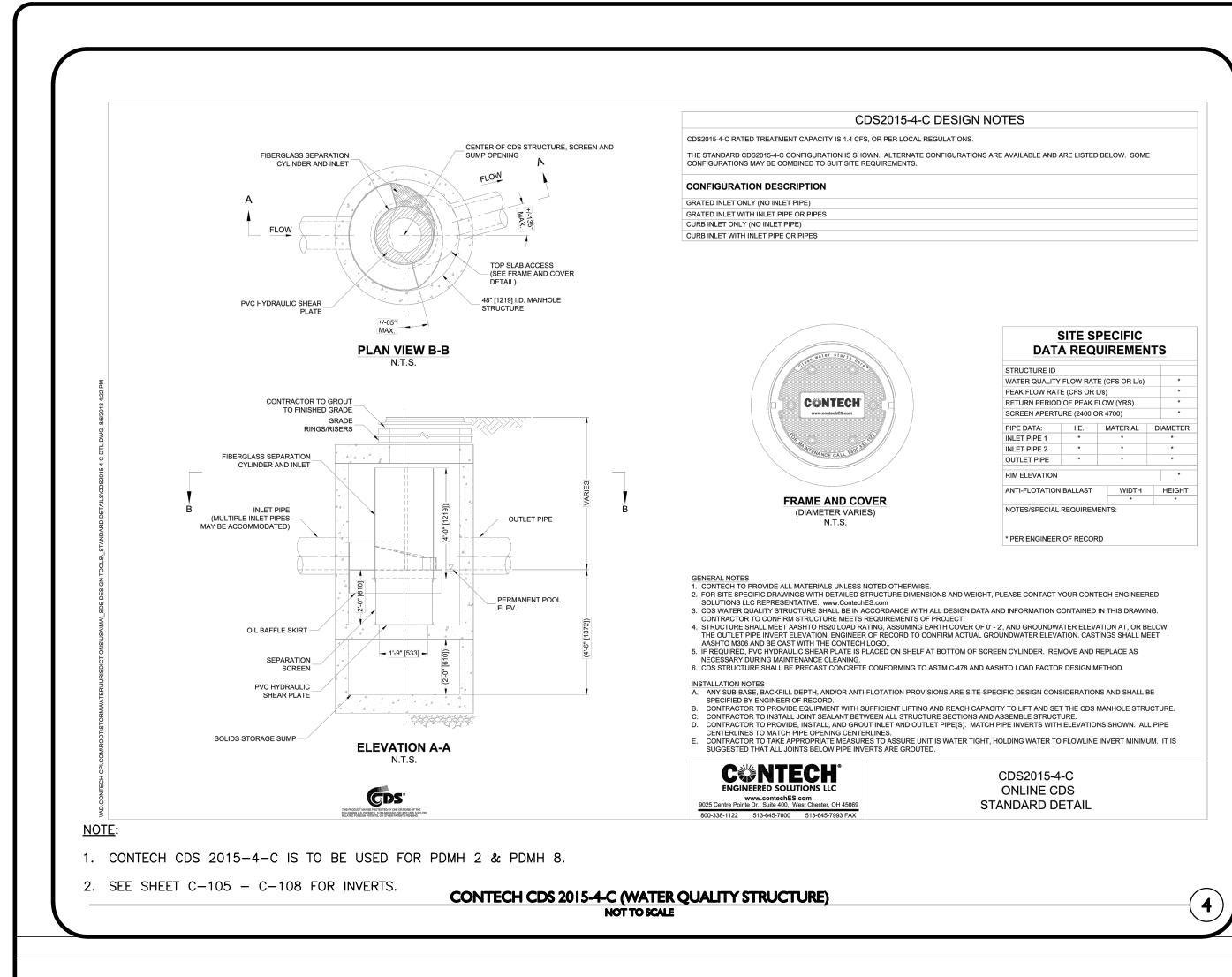
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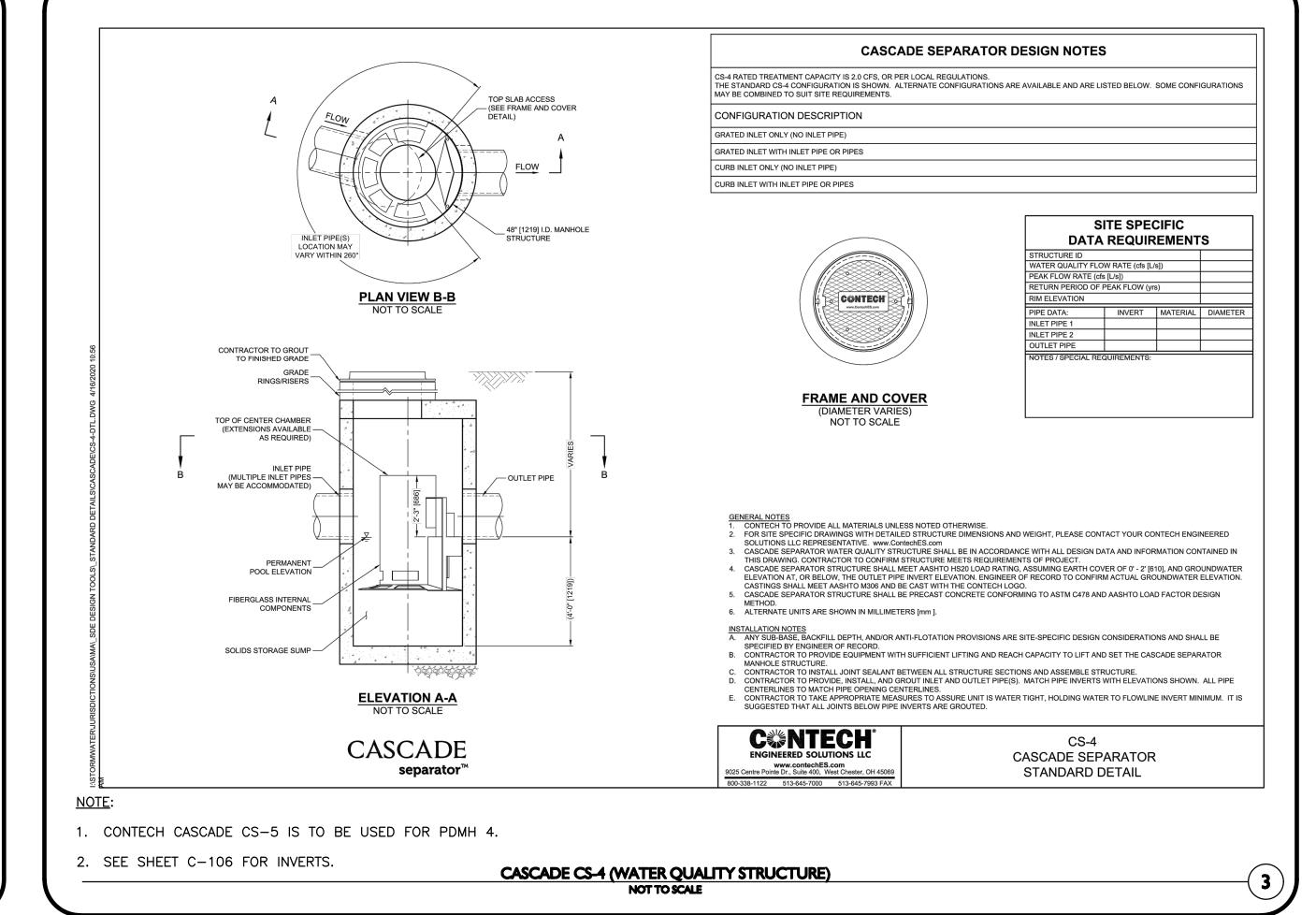
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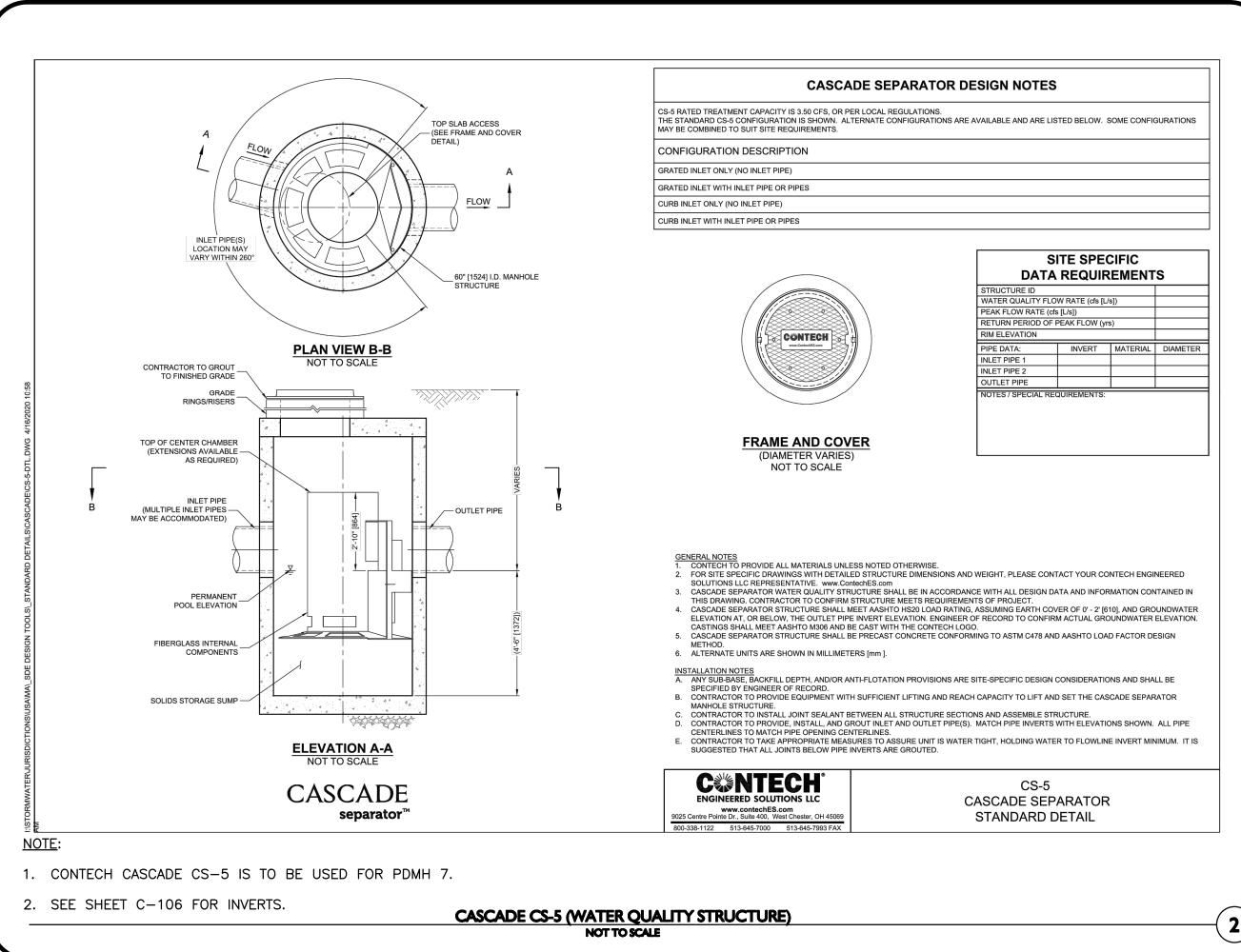
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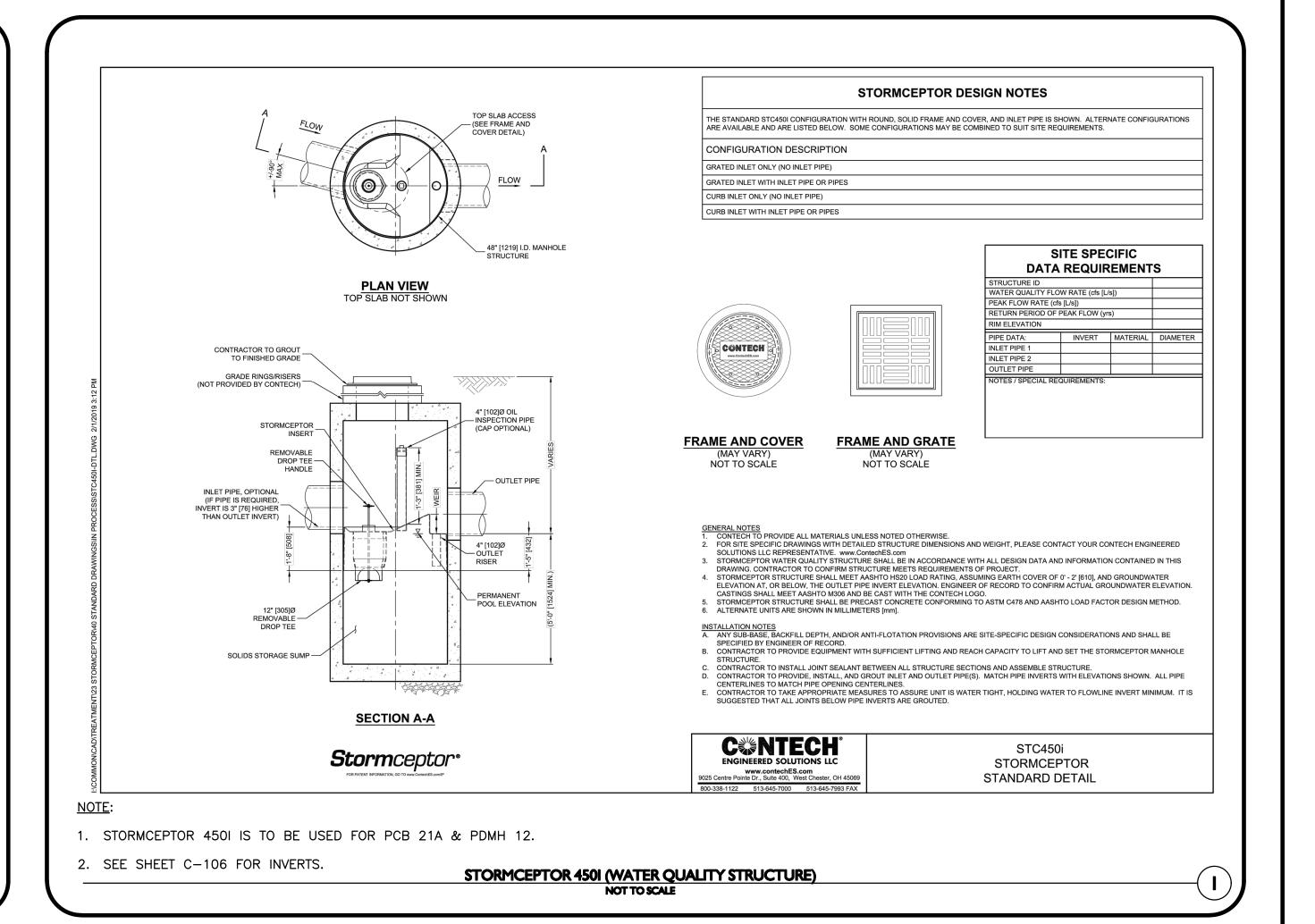
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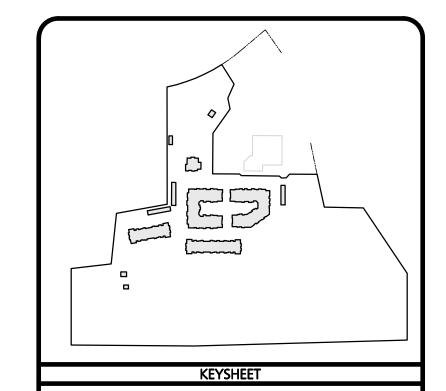
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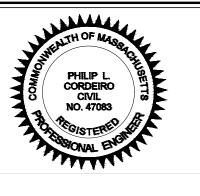












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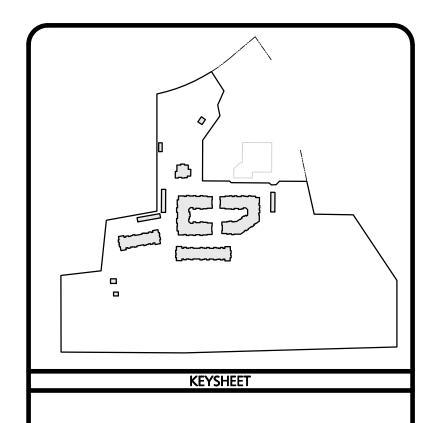
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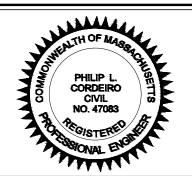
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09-10-2021

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