

TOWN OF FRANKLIN
TOWN CLERK
2018 APR -2 A 11:05
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SITE PLAN OF LAND

Chestnut Senior Village

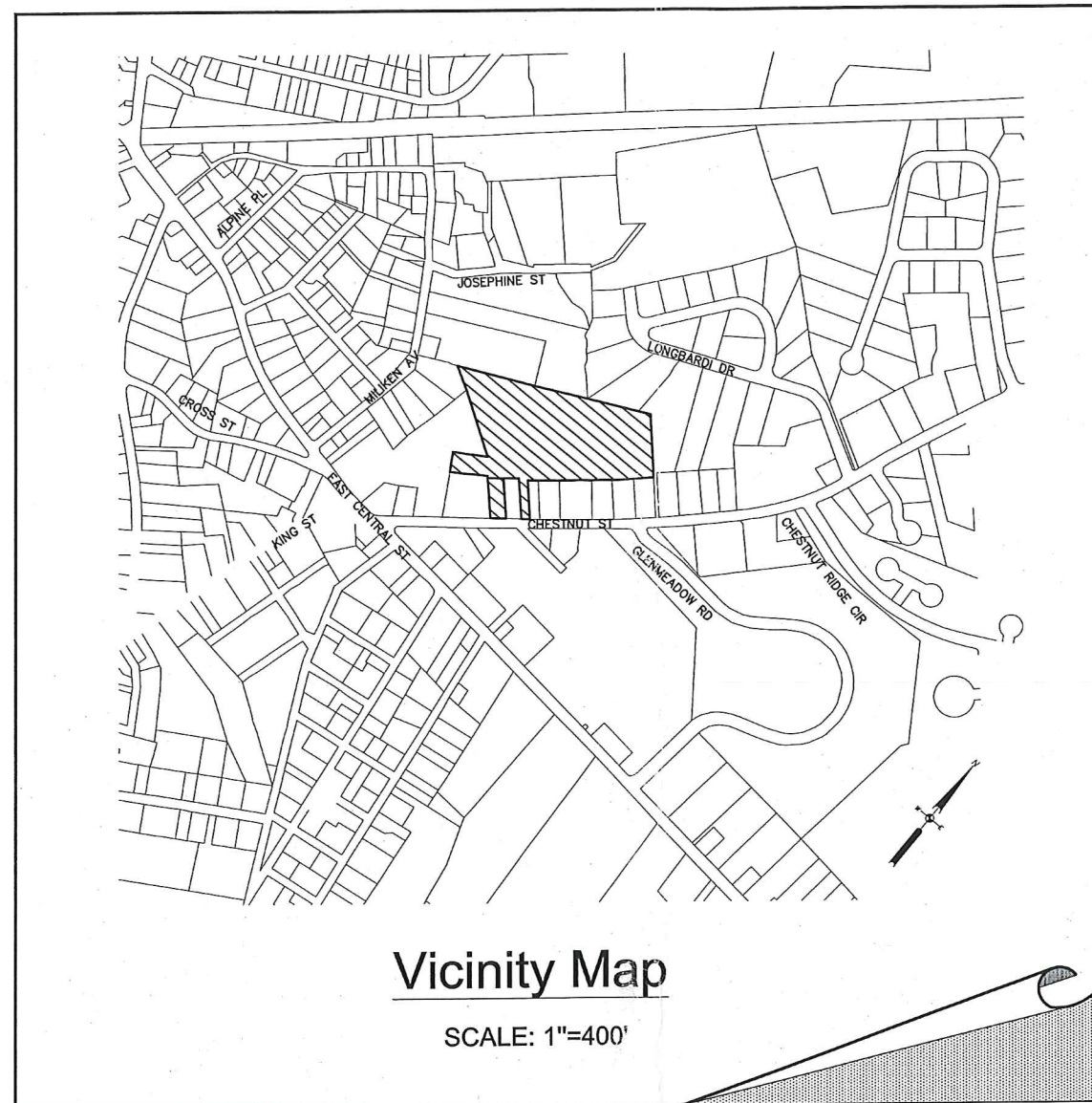
CHESTNUT STREET

FRANKLIN, MASSACHUSETTS

MARCH 30, 2018

SHEET INDEX

- | | |
|----|------------------------|
| 1 | COVER SHEET |
| 2 | EXISTING CONDITIONS |
| 3 | OVERALL LOT PLAN |
| 4 | SITE LAYOUT |
| 5 | EROSION CONTROL PLAN |
| 6 | GRADING PLAN |
| 7 | UTILITY PLAN |
| 8 | LANDSCAPING PLAN |
| 9 | CONSTRUCTION DETAILS |
| 10 | CONSTRUCTION DETAILS |
| 11 | CONSTRUCTION DETAILS |
| | ARCHITECTURAL PLAN SET |



Vicinity Map

SCALE: 1"=400'

UTILITIES ARE PLOTTED AS A COMPILATION OF RECORD DOCUMENTS, MARKINGS AND OTHER OBSERVED EVIDENCE TO DEVELOP A VIEW OF THE UNDERGROUND UTILITIES AND SHOULD BE CONSIDERED APPROXIMATE. LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY COMPLETELY AND RELIABLY DEPICTED. ADDITIONAL UTILITIES, NOT EVIDENCED BY RECORD DOCUMENTS OR OBSERVED PHYSICAL EVIDENCE, MAY EXIST. CONTRACTORS IN ACCORDANCE WITH MASS.G.L. CHAPTER 92, SECTION 20A (AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING AND CALL DIGSAFE AT 1(888)DIG-SAFE(7233).

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FILE COPY

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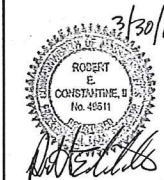
APR 2 2018

PLANNING DEPT.

JOB NO. F3183

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY



PROFESSIONAL
LAND SURVEYOR



PROFESSIONAL
ENGINEER

OWNERS:

WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021

51 CHESTNUT STREET
ASSESSOR MAP 285 PARCEL 096
BOOK 35063 PAGE 285

RANIERI TRUST
59 PLEASANT STREET
FRANKLIN, MA. 02038

0 CHESTNUT STREET
ASSESSOR MAP 280 PARCEL 007
BOOK 11172 PAGE 684
BOOK 23277 PAGE 64
BOOK 23284 PAGE 524
BOOK 16066 PAGE 91
BOOK 23277 PAGE 62
BOOK 23284 PAGE 522

REVISIONS

DATE	REVISED



**Guerriere
&
Halnon, Inc.**

Engineering & Land Surveying
Ph. (508) 528-3221 55 WEST CENTRAL STREET
Fx. (508) 528-7921 FRANKLIN, MA 02038
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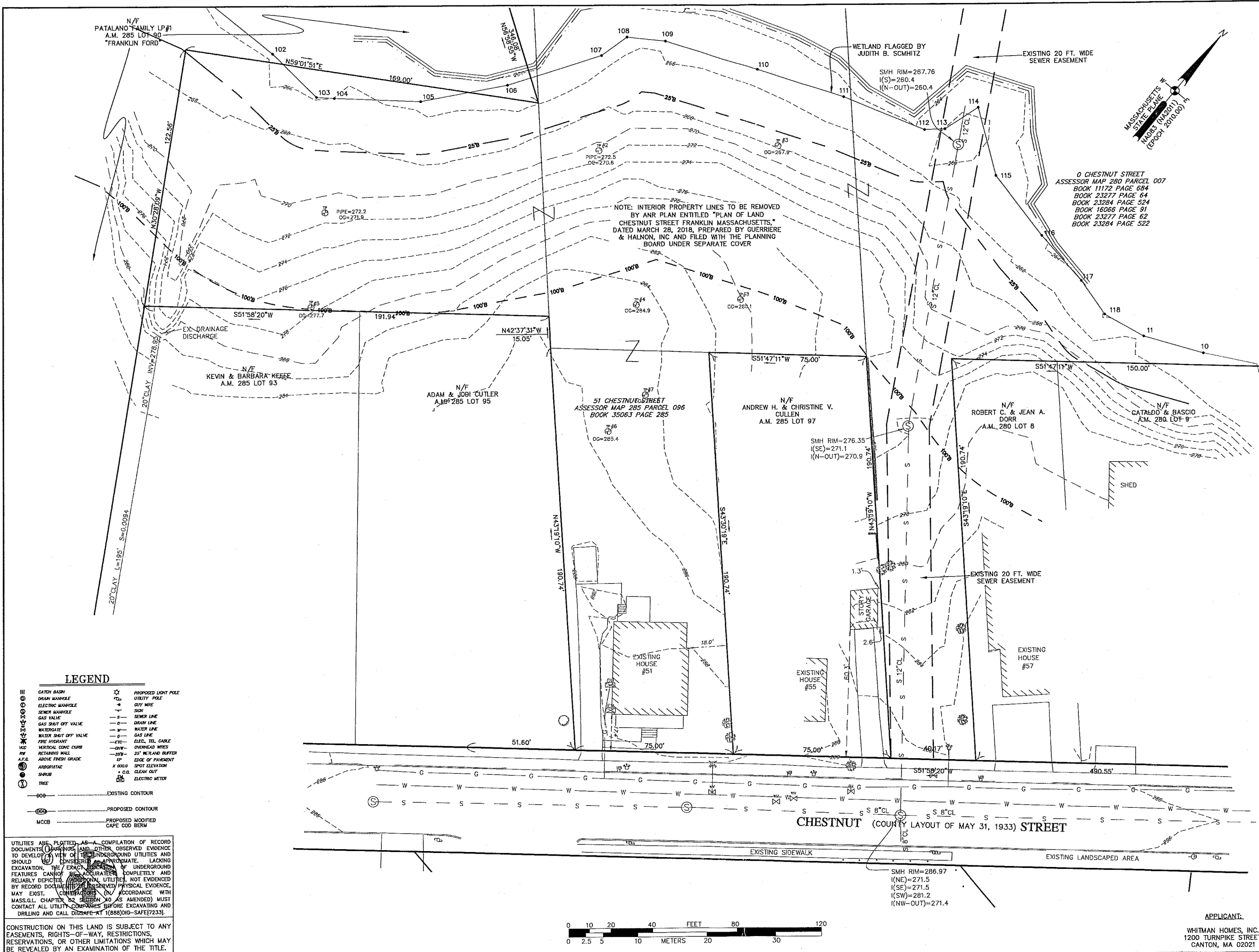
CHESTNUT
SENIOR VILLAGE

SITE PLAN OF LAND
CHESTNUT STREET
FRANKLIN
MASSACHUSETTS

COVER

DATE MARCH 30, 2018	SCALE 1"=400'
SHEET 1 OF 11	JOB NO. F3183

APPLICANT:
WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021



JOB NO. F3183

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE:
BEING A MAJORITY

3/30/18

ROBERT E. GUERRIERE
No. 45911

PROFESSIONAL
LAND SURVEYOR

OWNERS:
WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021
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CHESTNUT
SENIOR VILLAGE
SITE PLAN OF LAND
CHESTNUT STREET
FRANKLIN
MASSACHUSETTS

EXISTING CONDITIONS

DATE
MARCH 30, 2018

SCALE
1"=20'

SHEET
2 OF 11

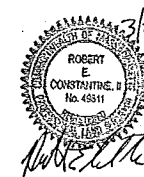
JOB NO.
F3183

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1200 TURNPIKE STREET
CANTON, MA 02021

JOB NO. F3183

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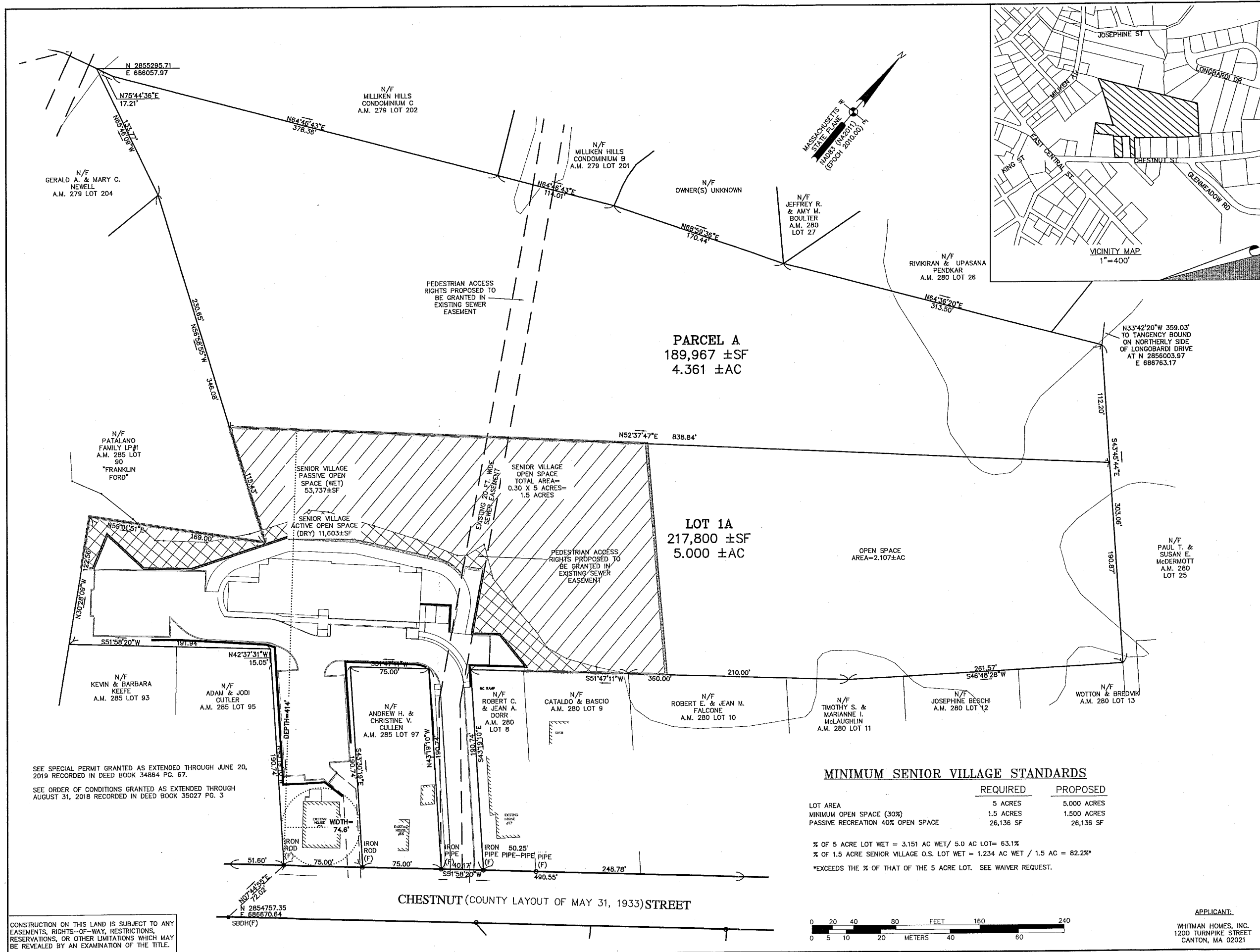
CHESTNUT SENIOR VILLAGE

SITE PLAN OF LAND CHESTNUT STREET FRANKLIN MASSACHUSETTS

OVERALL LOT PLAN

DATE	SCALE
MARCH 30, 2018	1"=40'

SHEET	JOB NO.
3 OF 11	F3183



SEE SPECIAL PERMIT GRANTED AS EXTENDED THROUGH JUNE 20, 2019 RECORDED IN DEED BOOK 34864 PG. 67.

SEE ORDER OF CONDITIONS GRANTED AS EXTENDED THROUGH AUGUST 31, 2018 RECORDED IN DEED BOOK 35027 PG. 3

CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

MINIMUM SENIOR VILLAGE STANDARDS

	REQUIRED	PROPOSED
LOT AREA	5 ACRES	5.000 ACRES
MINIMUM OPEN SPACE (30%)	1.5 ACRES	1.500 ACRES
PASSIVE RECREATION 40% OPEN SPACE	26,136 SF	26,136 SF

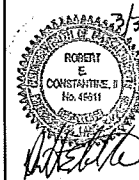
% OF 5 ACRE LOT WET = 3.151 AC WET / 5.0 AC LOT = 63.1%
% OF 1.5 ACRE SENIOR VILLAGE O.S. LOT WET = 1.234 AC WET / 1.5 AC = 82.2%
*EXCEEDS THE % OF THAT OF THE 5 ACRE LOT. SEE WAIVER REQUEST.

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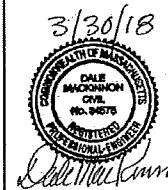
JOB NO. F3183

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FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY



PROFESSIONAL
LAND SURVEYOR



PROFESSIONAL
ENGINEER

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BOOK 23277 PAGE 64
BOOK 23284 PAGE 524
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CHESTNUT SENIOR VILLAGE

SITE PLAN OF LAND
CHESTNUT STREET
FRANKLIN
MASSACHUSETTS

SITE LAYOUT

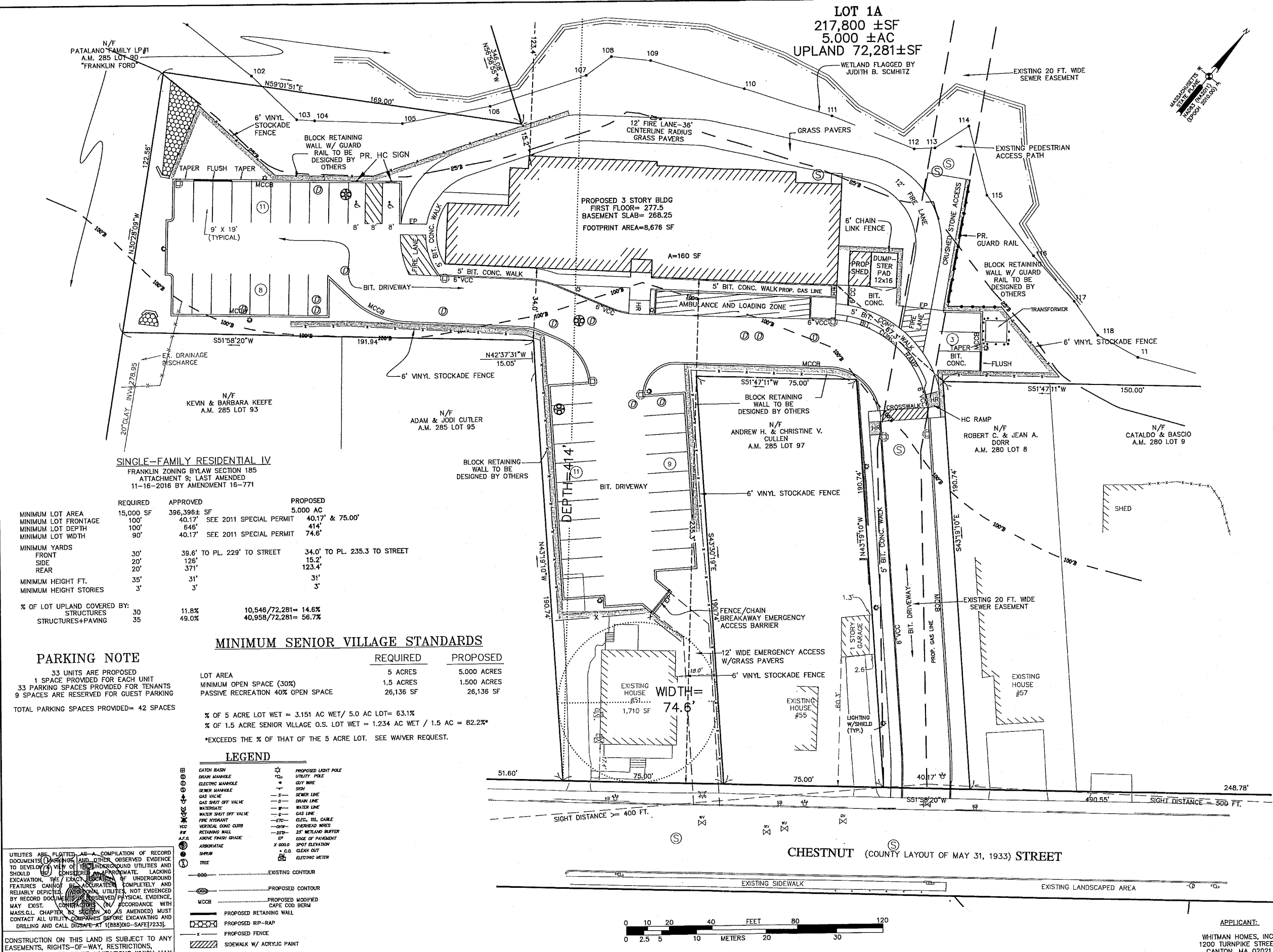
DATE	SCALE
MARCH 30, 2018	1"=20'

SHEET	JOB NO.
4 OF 11	F3183

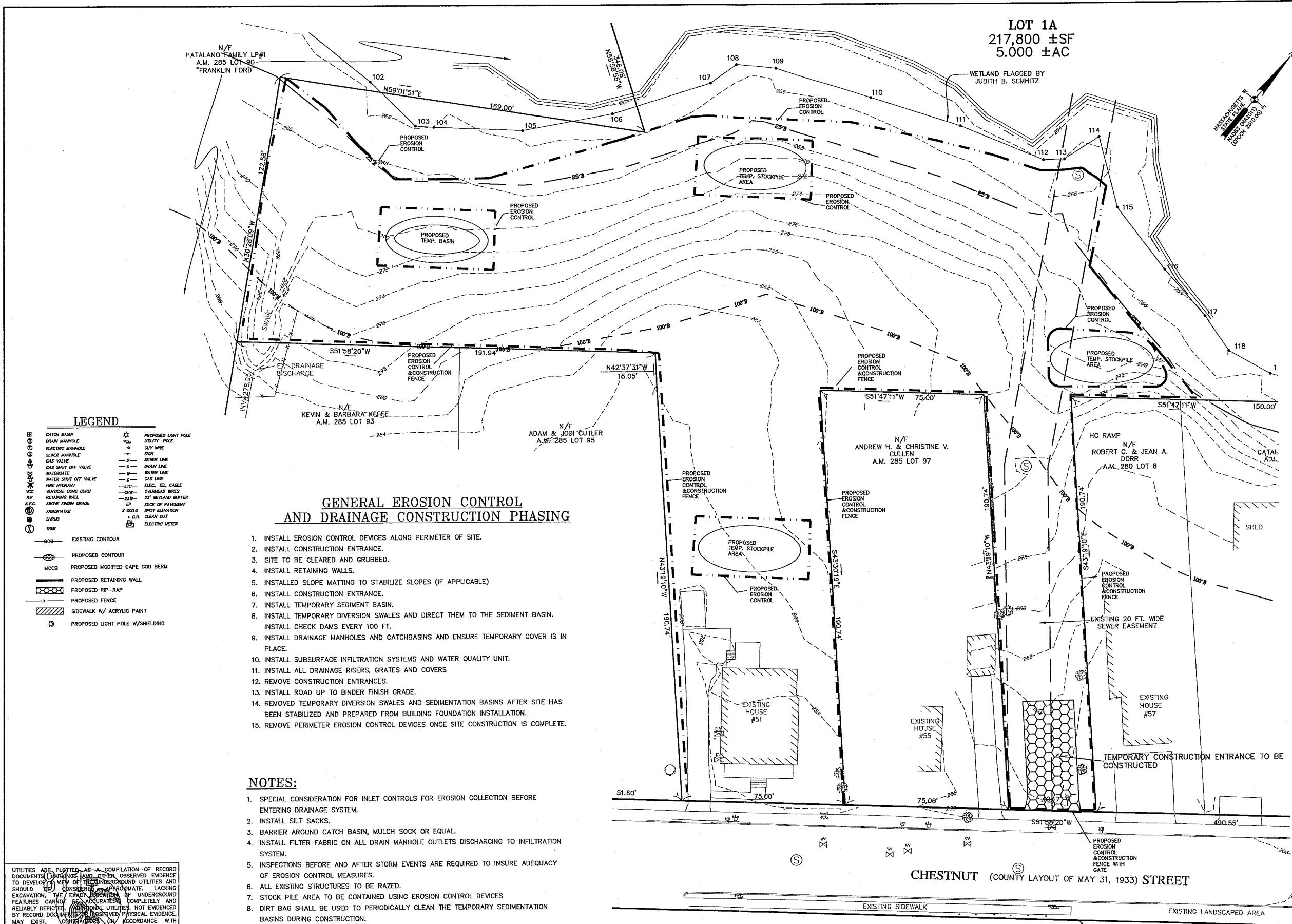
APPLICANT:

WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021

LOT 1A
217,800 ±SF
5.000 ±AC
UPLAND 72,281±SF



C:\3183\dwg\F3183-SITE (REV) 01.dwg, 3/30/2018 9:17:45 AM, [REV]



LOT 1A
217,800 ±SF
5.000 ±AC

JOB NO. F3183

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY

3/30/18

PROFESSIONAL LAND SURVEYOR

PROFESSIONAL ENGINEER

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CHESTNUT
SENIOR VILLAGE

SITE PLAN OF LAND
CHESTNUT STREET
FRANKLIN
MASSACHUSETTS

EROSION CONTROL

DATE MARCH 30, 2018 SCALE 1"=20'

SHEET 5 OF 11 JOB NO. F3183

GENERAL EROSION CONTROL AND DRAINAGE CONSTRUCTION PHASING

1. INSTALL EROSION CONTROL DEVICES ALONG PERIMETER OF SITE.
2. INSTALL CONSTRUCTION ENTRANCE.
3. SITE TO BE CLEARED AND GRUBBED.
4. INSTALL RETAINING WALLS.
5. INSTALLED SLOPE MATTING TO STABILIZE SLOPES (IF APPLICABLE)
6. INSTALL CONSTRUCTION ENTRANCE.
7. INSTALL TEMPORARY SEDIMENT BASIN.
8. INSTALL TEMPORARY DIVERSION SWALES AND DIRECT THEM TO THE SEDIMENT BASIN.
9. INSTALL DRAINAGE MANHOLES AND CATCHBASINS AND ENSURE TEMPORARY COVER IS IN PLACE.
10. INSTALL SUBSURFACE INFILTRATION SYSTEMS AND WATER QUALITY UNIT.
11. INSTALL ALL DRAINAGE RISERS, GRATES AND COVERS
12. REMOVE CONSTRUCTION ENTRANCES.
13. INSTALL ROAD UP TO BINDER FINISH GRADE.
14. REMOVED TEMPORARY DIVERSION SWALES AND SEDIMENTATION BASINS AFTER SITE HAS BEEN STABILIZED AND PREPARED FROM BUILDING FOUNDATION INSTALLATION.
15. REMOVE PERIMETER EROSION CONTROL DEVICES ONCE SITE CONSTRUCTION IS COMPLETE.

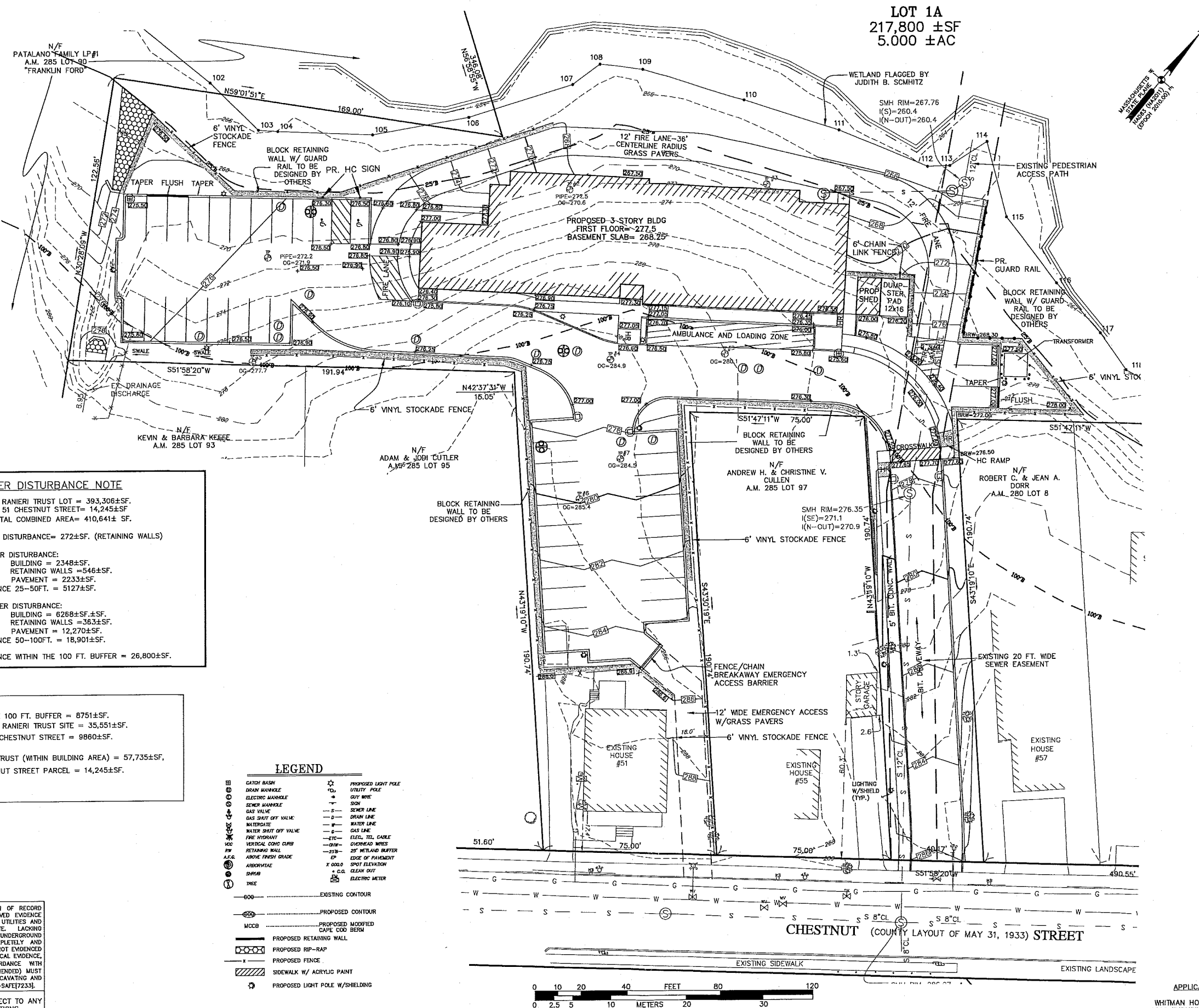
NOTES:

1. SPECIAL CONSIDERATION FOR INLET CONTROLS FOR EROSION COLLECTION BEFORE ENTERING DRAINAGE SYSTEM.
2. INSTALL SILT SACKS.
3. BARRIER AROUND CATCH BASIN, MULCH SOCK OR EQUAL.
4. INSTALL FILTER FABRIC ON ALL DRAIN MANHOLE OUTLETS DISCHARGING TO INFILTRATION SYSTEM.
5. INSPECTIONS BEFORE AND AFTER STORM EVENTS ARE REQUIRED TO INSURE ADEQUACY OF EROSION CONTROL MEASURES.
6. ALL EXISTING STRUCTURES TO BE RAZED.
7. STOCK PILE AREA TO BE CONTAINED USING EROSION CONTROL DEVICES
8. DIRT BAG SHALL BE USED TO PERIODICALLY CLEAN THE TEMPORARY SEDIMENTATION BASINS DURING CONSTRUCTION.

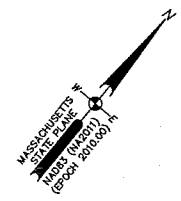
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APPLICANT:
WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021



LOT 1A
217,800 ±SF
5.000 ±AC



BUFFER DISTURBANCE NOTE

AREA OF RANIERI TRUST LOT = 393,306±SF.
AREA OF 51 CHESTNUT STREET= 14,245±SF
TOTAL COMBINED AREA= 410,641± SF.

0-25 FOOT BUFFER DISTURBANCE= 272±SF. (RETAINING WALLS)

25 FT.-50FT. BUFFER DISTURBANCE:
BUILDING = 2348±SF.
RETAINING WALLS =546±SF.
PAVEMENT = 2233±SF.
TOTAL DISTURBANCE 25-50FT. = 5127±SF.

50 FT.-100FT. BUFFER DISTURBANCE:
BUILDING = 6268±SF.±SF.
RETAINING WALLS =363±SF.
PAVEMENT = 12,270±SF.
TOTAL DISTURBANCE 50-100FT. = 18,901±SF.

TOTAL DISTURBANCE WITHIN THE 100 FT. BUFFER = 26,800±SF.

TOTAL DISTURBANCE OUTSIDE THE 100 FT. BUFFER = 8751±SF.
TOTAL DISTURBANCE WITHIN THE RANIERI TRUST SITE = 35,551±SF.
TOTAL DISTURBANCE WITHIN 51 CHESTNUT STREET = 9860±SF.

TOTAL UPLAND ON THE RANIERI TRUST (WITHIN BUILDING AREA) = 57,735±SF.
TOTAL UPLAND WITHIN 51 CHESTNUT STREET PARCEL = 14,245±SF.

- LEGEND**
- | | |
|---|---------------------------|
| ① CATCH BASIN | ☆ PROPOSED LIGHT POLE |
| ② DRAIN MANHOLE | ○ UTILITY POLE |
| ③ ELECTRIC MANHOLE | ○ OUT WIRE |
| ④ SEWER MANHOLE | ○ SOIL |
| ⑤ GAS VALVE | — S— SEWER LINE |
| ⑥ GAS SHUT OFF VALVE | — D— DRAIN LINE |
| ⑦ WATERGATE | — W— WATER LINE |
| ⑧ WATER SHUT OFF VALVE | — G— GAS LINE |
| ⑨ FIRE HYDRANT | — ETC— ELEC. TEL. CABLE |
| ⑩ VERTICAL CURB CURB | — OHV— OVERHEAD WIRE |
| ⑪ RETAINING WALL | — 25'— 25' WETLAND BUFFER |
| ⑫ ABOVE FRESH GRADE | — EP— EDGE OF PAVEMENT |
| ⑬ ADJUSTABLE | — X 000.0— SPOT ELEVATION |
| ⑭ SURF | — * C.O.— CLEAN OUT |
| ⑮ TREE | ⊕ ELECTRIC METER |
| — 000— EXISTING CONTOUR | |
| — 100— PROPOSED CONTOUR | |
| — MCCB— PROPOSED MODIFIED CAPE COD BERM | |
| — PROPOSED RETAINING WALL | |
| — PROPOSED RIP-RAP | |
| — PROPOSED FENCE | |
| — SIDEWALK W/ ACRYLIC PAINT | |
| — PROPOSED LIGHT POLE W/SHIELDING | |

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APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____

BEING A MAJORITY

PROFESSIONAL LAND SURVEYOR

3/30/18

PROFESSIONAL ENGINEER

OWNERS:

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1200 TURNPIKE STREET
CANTON, MA 02021

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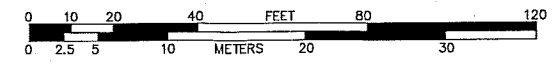
55 WEST CENTRAL STREET
FRANKLIN, MA 02038

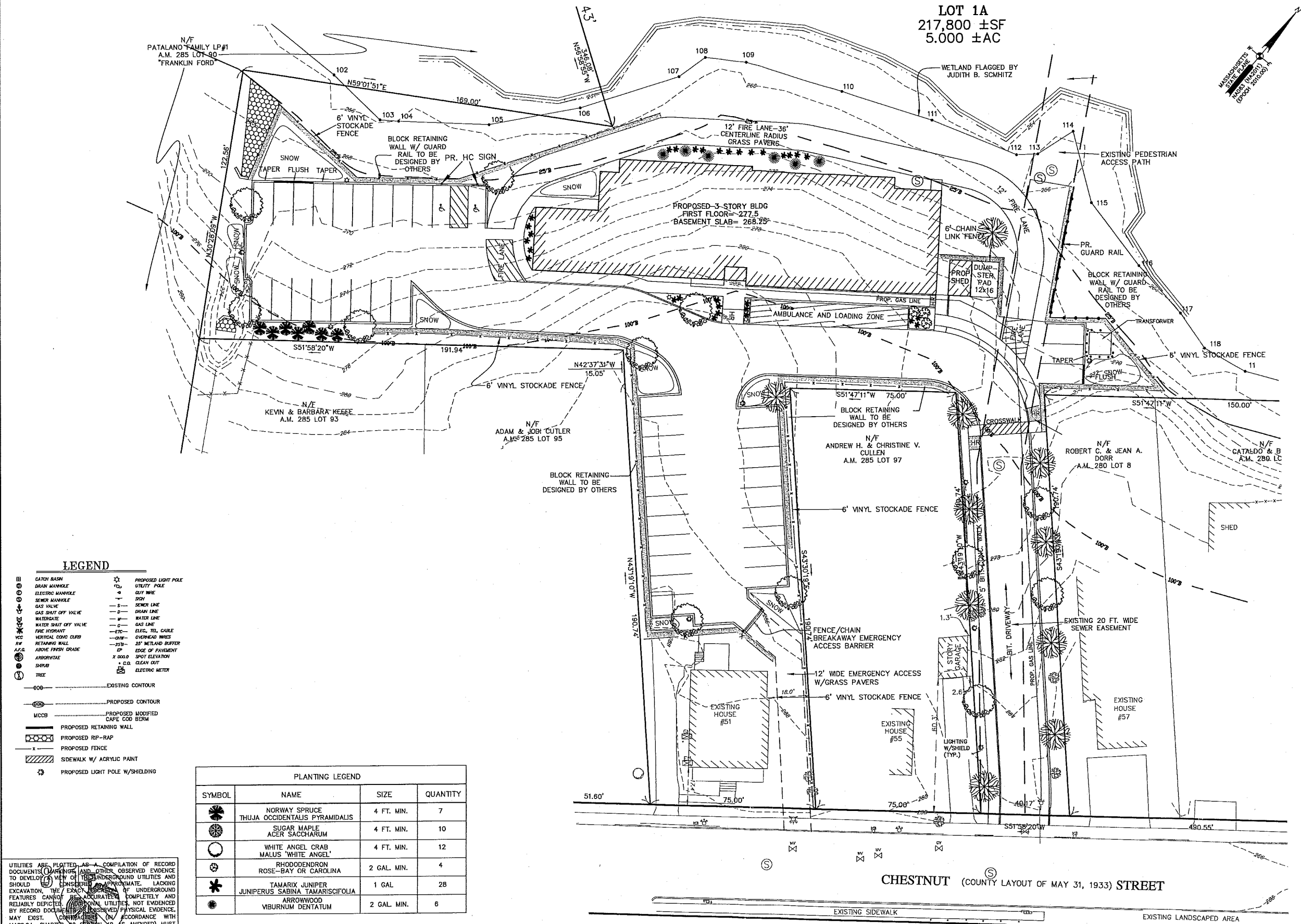
CHESTNUT SENIOR VILLAGE

SITE PLAN OF LAND CHESTNUT STREET FRANKLIN MASSACHUSETTS

GRADING	
DATE MARCH 30, 2018	SCALE 1"=20'
SHEET 8 OF 11	JOB NO. F3183

APPLICANT:
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JOB NO. **F3183**

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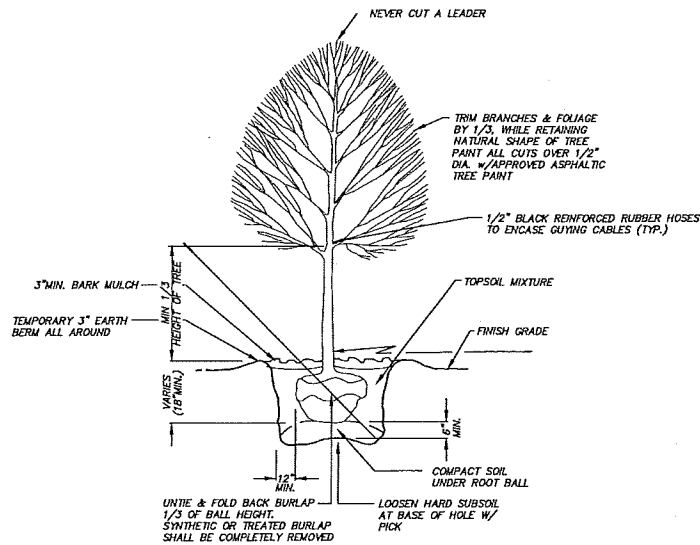
CHESTNUT SENIOR VILLAGE
SITE PLAN OF LAND
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FRANKLIN
MASSACHUSETTS

LANDSCAPING

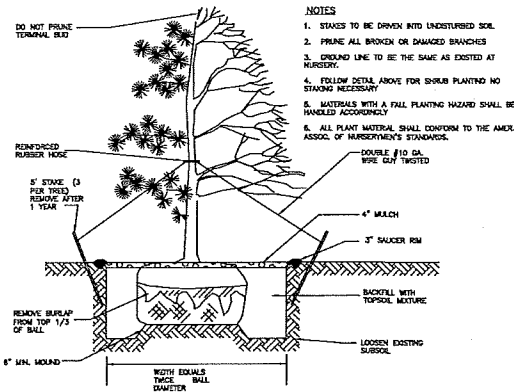
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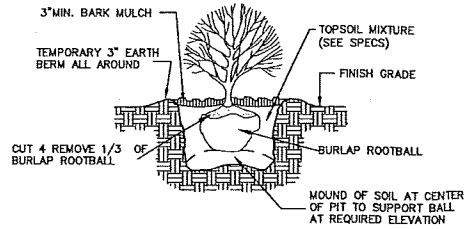
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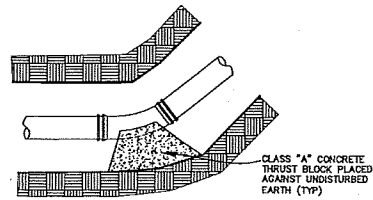
SPECIMEN DECIDUOUS TREE PLANTING DETAIL



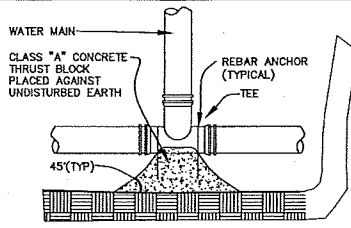
EVERGREEN TREE PLANTING DETAIL



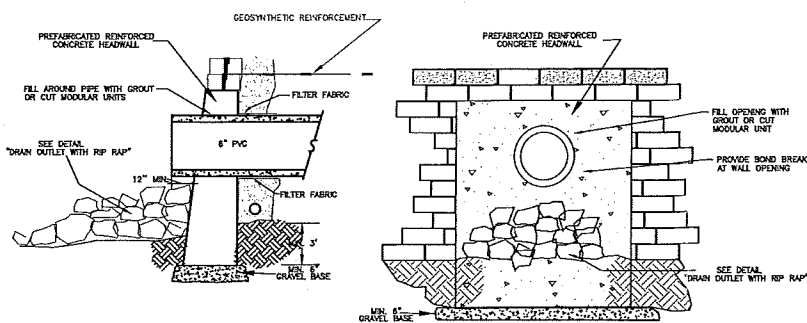
SHRUB DETAIL
N.T.S.



TYPICAL WATER MAIN HORIZONTAL BEND
NOT TO SCALE

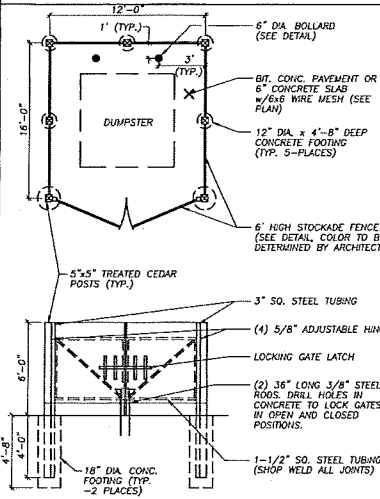


TYPICAL WATER MAIN TEE
NOT TO SCALE

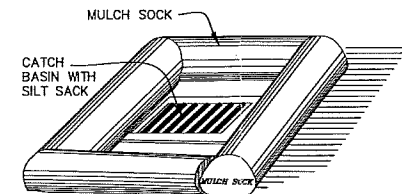


WALL W/ PIPE PENETRATION

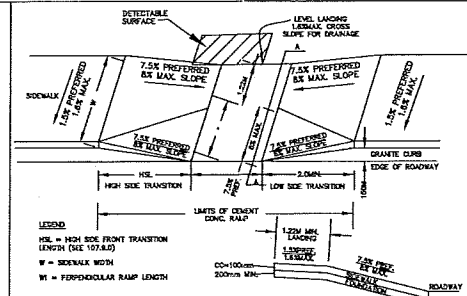
WALL W/ PIPE PENETRATION



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

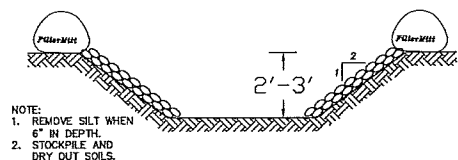


CATCH BASIN FILTER TRAP
EROSION CONTROL



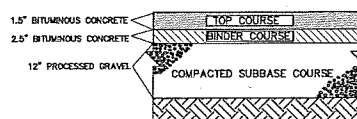
CEMENT CONCRETE WHEELCHAIR RAMP
N.T.S.

SIDEWALK NOTE:
AS REQUIRED BY ADA, SIDEWALK RAMPS SHALL HAVE A DETECTABLE SURFACE AT THE BOTTOM OF THE RAMP.

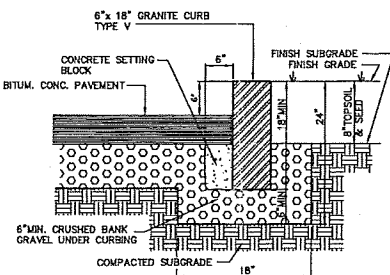


TEMPORARY SEDIMENTATION/
SILTATION BASIN

N.T.S.

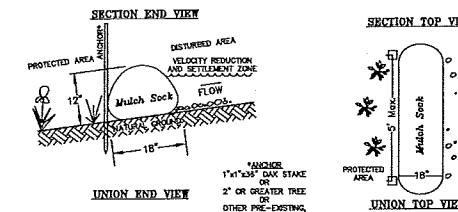


BITUMINOUS PAVEMENT DETAIL
N.T.S.

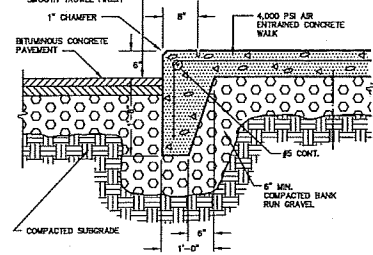


VERTICAL GRANITE CURB ENTRANCE
ROUNDINGS (AS NEEDED)

N.T.S.

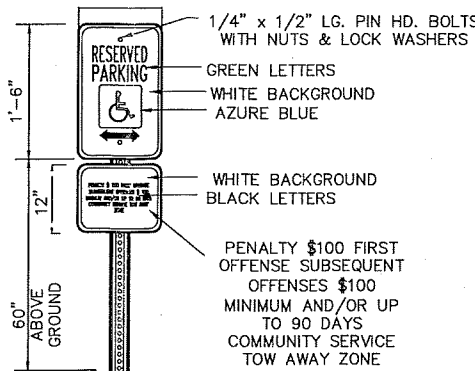


EROSION CONTROL BARRIER
NOT TO SCALE

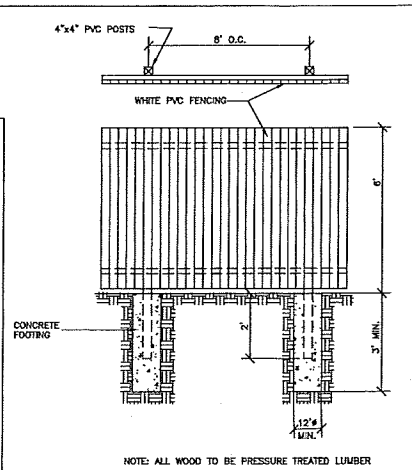


TYPICAL CONCRETE WALK-CURB DETAIL
FRONT OF BUILDING

NOT TO SCALE



HANDICAP PARKING SIGN DETAIL



PVC FENCE DETAIL
N.T.S.

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE: _____
BEING A MAJORITY



PROFESSIONAL
ENGINEER

OWNERS:

WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021

51 CHESTNUT STREET
ASSESSOR MAP 285 PARCEL 086
BOOK 35063 PAGE 285

RANIERI TRUST
MARGARET RANIERI TRUSTEE
59 PLEASANT STREET
FRANKLIN, MA 02038

0 CHESTNUT STREET
ASSESSOR MAP 280 PARCEL 007
BOOK 11172 PAGE 684
BOOK 23277 PAGE 64
BOOK 23284 PAGE 524
BOOK 16066 PAGE 91
BOOK 23277 PAGE 62
BOOK 23284 PAGE 522

REVISIONS

DATE REVISED

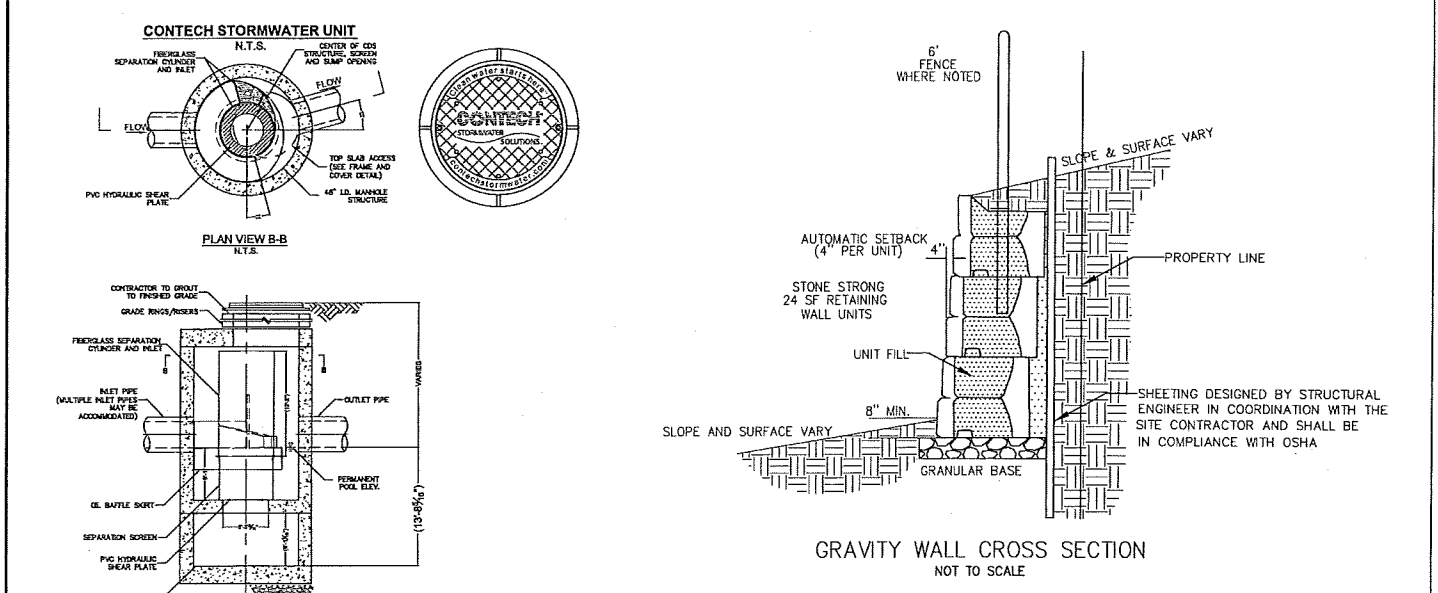


CHESTNUT
SENIOR VILLAGE

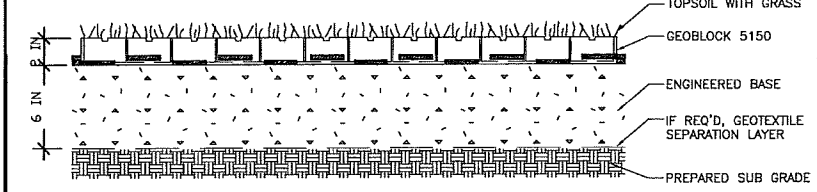
SITE PLAN OF LAND
CHESTNUT STREET
FRANKLIN
MASSACHUSETTS

CONSTRUCTION DETAILS

DATE MARCH 30, 2018 SCALE 1"=20'
SHEET 10 OF 11 JOB NO. F3183



DESIGN GUIDELINES			
LOAD DESCRIPTION	CBR 2 - 4%	CBR 4 - 6%	CBR 6 - 8%
Heavy Fire Truck Access & H/HIS-20 loading. Typical 110 psi (758 kPa) tire pressure. Single axle loadings of 32 kips (145 kN), tandem axle loadings of 48 kips (220 kN). Gross vehicle weight of 80,000 lbs (36.3 MT). Infrequent passes.	Design 1	Design 2	Design 3
Light Fire Truck Access & H/HIS-15 loading. Typical 85 psi (586 kPa) tire pressure. Single axle loadings of 24 kips (110 kN). Gross vehicle loads of 60,000 lbs (27.2 MT). Infrequent passes.	Design 2	Design 3	Design 4
Utility & Delivery Truck Access & H/HIS-10 loading. Typical 60 psi (414 kPa) tire pressure. Single axle loadings of 16 kips (75 kN). Gross vehicle loads of 40,000 lbs (18.1 MT). Infrequent passes.	Design 3	Design 4	Design 5
Cars & Pick-up Truck Access. Typical 45 psi (310 kPa) tire pressure. Single axle loadings of 4 kips (18 kN). Gross vehicle loads of 8,000 lbs (3.6 MT). Infrequent passes.	Design 4	Design 5	Design 6
Trail Use. Loading for pedestrian, wheelchair, equestrian, bicycle, motorcycle and ATV traffic.	Design 5	Design 6	Design 7

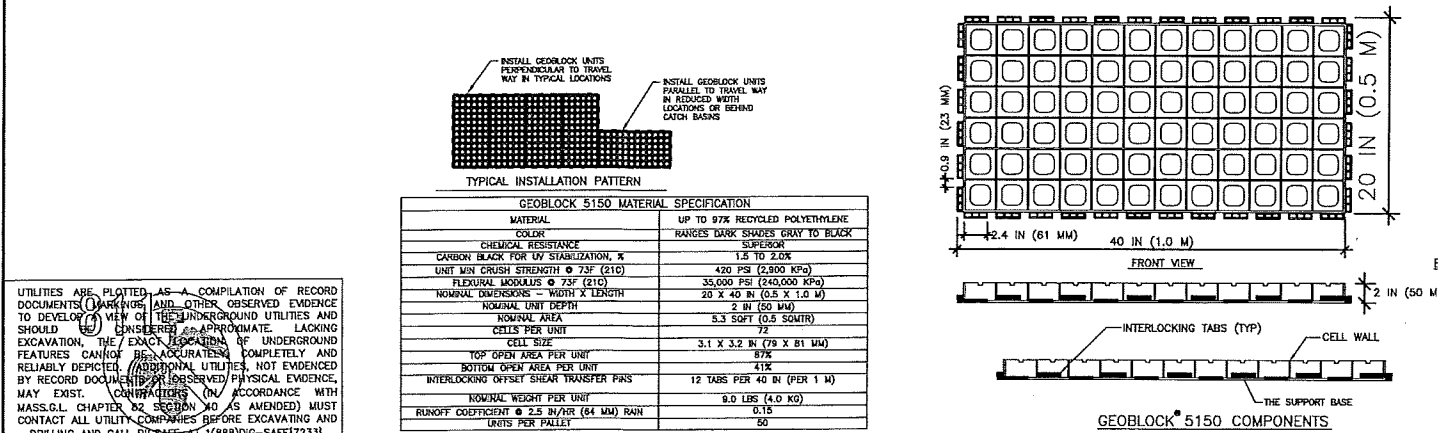


PRESTO® PRODUCTS CO.
670 NORTH PERKINS STREET
APPLETON, WI 54914
920-739-1342
WWW.PRESTOGEOTECH.COM

PRESTO®, GEOSYSTEMS AND GEOBLOCK ARE REGISTERED TRADEMARKS OF PRESTO PRODUCTS.

Notes:

1. CBR means California Bearing Ratio.
2. Engineered base is a homogenous mixture consisting of crushed rock having an AASHTO # 5 or similar designation blended with pulverized topsoil and void component generally containing air and/or water. This homogenous mixture will promote vegetative growth and provide required structural support. The aggregate portion shall have a particle size range from 0.5 mm to 25 mm (0.5 in. to 1.0 in.) with a D50 of 13 mm (0.5 in.). The percentage void-space of the aggregate portion when compacted shall be at least 30%. The pulverized topsoil portion shall equal 25% +/- of the total volume and be added and blended to produce a homogenous mixture prior to placement or washed into the in-place compacted aggregate. Once placed, the mixture shall be compacted to 95% Standard Proctor Density.
3. Refer to the Geoblock 5150 Design and Construction Overview for a complete description of the design and construction methods.



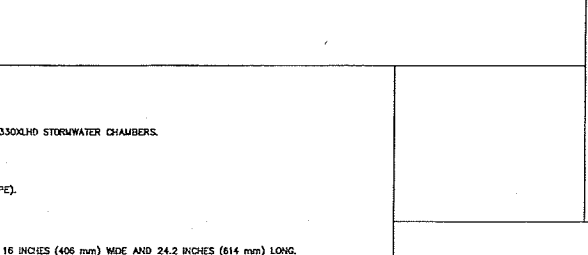
CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS, RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE TITLE.

CULTEC RECHARGER® 3300LHD PRODUCT SPECIFICATIONS

GENERAL
CULTEC RECHARGER 3300LHD CHAMBERS ARE DESIGNED FOR UNDERGROUND STORMWATER MANAGEMENT. THE CHAMBERS MAY BE USED FOR RETENTION, RECHARGING, DETENTION OR CONTROLLING THE FLOW OF ON-SITE STORMWATER RUNOFF.

CHAMBER PARAMETERS

1. THE CHAMBERS WILL BE MANUFACTURED IN THE U.S.A. BY CULTEC, INC. OF BROOKFIELD, CT (203-775-4416 OR 1-800-428-5832).
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK POLYETHYLENE.
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE CHAMBER WILL BE JOINED USING AN INTERLOCKING OVERLAPPING RIB METHOD. CONNECTIONS MUST BE FULLY SHOULDRED OVERLAPPING RIBS, HAVING NO SEPARATE COUPLINGS OR SEPARATE END WALLS.
6. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC RECHARGER 3300LHD SHALL BE 30.5 INCHES (775 mm) TALL, 52 INCHES (1321 mm) WIDE AND 8.5 FEET (2.59 m) LONG. THE INSTALLED LENGTH OF A JOINED RECHARGER 3300LHD SHALL BE 7 FEET (2.13 m).
7. MAXIMUM INLET OPENING ON THE CHAMBER END WALL IS 24 INCHES (600 mm).
8. THE CHAMBER WILL HAVE TWO SIDE PORTALS TO ACCEPT CULTEC HVLV FC-24 FEED CONNECTORS TO CREATE AN INTERNAL MANFOLD. THE NOMINAL DIMENSIONS OF EACH SIDE PORTAL WILL BE 10.5 INCHES (267 mm) HIGH BY 11.5 INCHES (292 mm) WIDE. MAXIMUM ALLOWABLE CUTTER DIAMETER (O.D.) PIPE SIZE IN THE SIDE PORTAL IS 11.75 INCHES (298 mm).
9. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
10. THE NOMINAL STORAGE VOLUME OF THE RECHARGER 3300LHD CHAMBER WILL BE 7.456 FT³ / FT (0.693 m³ / m) - WITHOUT STONE. THE NOMINAL STORAGE VOLUME OF A JOINED RECHARGER 3300LHD SHALL BE 62.213 FT³ / UNIT (1.478 m³ / UNIT) - WITHOUT STONE.
11. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
12. THE RECHARGER 3300LHD CHAMBER WILL HAVE FIFTY-SIX DISCHARGE HOLES BORED INTO THE SIDEWALLS OF THE UNIT'S CORE TO PROMOTE LATERAL CONVEYANCE OF WATER.
13. THE RECHARGER 3300LHD CHAMBER SHALL HAVE 16 CORRUGATIONS.
14. THE END WALL OF THE CHAMBER, WHEN PRESENT, WILL BE AN INTEGRAL PART OF THE CONTINUOUSLY FORMED UNIT. SEPARATE END PLATES CANNOT BE USED WITH THIS UNIT.
15. THE RECHARGER 3300LHD STAND ALONE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO FULLY FORMED INTEGRAL END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS.
16. THE RECHARGER 3300LHD STARTER UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (878 mm) WIDE.
17. THE RECHARGER 3300LHD INTERMEDIATE UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY OPEN END WALL AND ONE PARTIALLY FORMED INTEGRAL END WALL WITH A LOWER TRANSFER OPENING OF 14 INCHES (356 mm) HIGH X 34.5 INCHES (878 mm) WIDE.
18. THE RECHARGER 3300LHD END UNIT MUST BE FORMED AS A WHOLE CHAMBER HAVING ONE FULLY FORMED INTEGRAL END WALL AND ONE FULLY OPEN END WALL AND HAVING NO SEPARATE END PLATES OR END WALLS.
19. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE RECHARGER 3300LHD AND ACT AS CROSS FEED CONNECTIONS.
20. CHAMBERS MUST HAVE HORIZONTAL STIFFENING FLEX REDUCTION STEPS BETWEEN THE RIBS.
21. HEAVY DUTY UNITS ARE DESIGNATED BY A COLORED STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER.
22. THE CHAMBER WILL HAVE A 6 INCH (152 mm) DIAMETER RAISED INTEGRAL CAP LOCATED ON TOP OF THE ARCH IN THE CENTER OF EACH UNIT TO BE USED AS AN OPTIONAL INSPECTION PORT OR CLEAN-OUT.
23. THE UNITS MAY BE TRIMMED TO CUSTOM LENGTHS BY CUTTING BACK TO ANY CORRUGATION.
24. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.
25. MAXIMUM ALLOWED COVER OVER TOP OF UNIT SHALL BE 12 FEET (3.68 m)
26. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.



CULTEC HVLV FC-24 FEED CONNECTOR PRODUCT SPECIFICATIONS

GENERAL
CULTEC HVLV FC-24 FEED CONNECTORS ARE DESIGNED TO CREATE AN INTERNAL MANFOLD FOR CULTEC RECHARGER MODEL 3300LHD STORMWATER CHAMBERS.

CHAMBER PARAMETERS

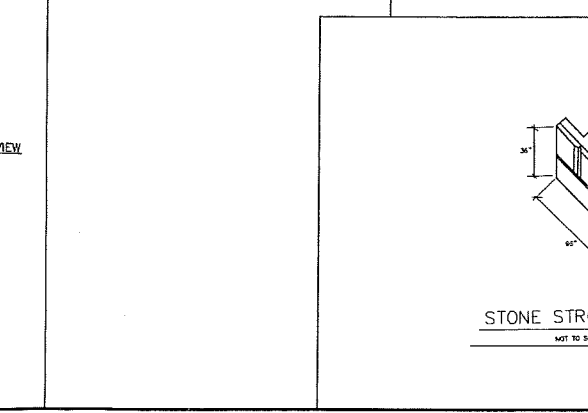
1. THE CHAMBERS WILL BE MANUFACTURED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE CHAMBER WILL BE VACUUM THERMOFORMED OF BLACK HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE).
3. THE CHAMBER WILL BE ARCHED IN SHAPE.
4. THE CHAMBER WILL BE OPEN-BOTTOMED.
5. THE NOMINAL CHAMBER DIMENSIONS OF THE CULTEC HVLV FC-24 FEED CONNECTOR SHALL BE 12 INCHES (305 mm) TALL, 16 INCHES (406 mm) WIDE AND 24.2 INCHES (614 mm) LONG.
6. THE NOMINAL STORAGE VOLUME OF THE HVLV FC-24 FEED CONNECTOR WILL BE 0.913 FT³ / FT (0.085 m³ / m) - WITHOUT STONE.
7. THE HVLV FC-24 FEED CONNECTOR CHAMBER SHALL HAVE 2 CORRUGATIONS.
8. THE HVLV FC-24 FEED CONNECTOR MUST BE FORMED AS A WHOLE CHAMBER HAVING TWO OPEN END WALLS AND HAVING NO SEPARATE END PLATES OR SEPARATE END WALLS. THE UNIT WILL FIT INTO THE SIDE PORTALS OF THE CULTEC RECHARGER STORMWATER CHAMBER AND ACT AS CROSS FEED CONNECTIONS CREATING AN INTERNAL MANFOLD.
9. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS.
10. THE CHAMBER SHALL BE MANUFACTURED IN AN ISO 9001:2008 CERTIFIED FACILITY.

CULTEC NO. 66™ WOVEN GEOTEXTILE

GENERAL
CULTEC NO. 66™ WOVEN GEOTEXTILE IS UTILIZED AS AN UNDERLAYMENT TO PREVENT SCOURING CAUSED BY WATER MOVEMENT WITHIN THE CULTEC CHAMBERS AND FEED CONNECTORS UTILIZING THE CULTEC MANFOLD FEATURE.

GEOTEXTILE PARAMETERS

1. THE GEOTEXTILE SHALL BE PROVIDED BY CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
2. THE GEOTEXTILE SHALL BE BLACK IN APPEARANCE.
3. THE GEOTEXTILE SHALL HAVE A TENSILE STRENGTH OF 315 LBS (1.40kN) PER ASTM D4632 TESTING METHOD.
4. THE GEOTEXTILE SHALL HAVE A TENSILE ELONGATION RESISTANCE OF 15% PER ASTM D4632 TESTING METHOD.
5. THE GEOTEXTILE SHALL HAVE A MULLEN BURST RESISTANCE OF 600PSI (4138 KPA) PER ASTM D3786 TESTING METHOD.
6. THE GEOTEXTILE SHALL HAVE A TEAR RESISTANCE OF 115 LBS (0.51 kN) PER ASTM D4533 TESTING METHOD.
7. THE GEOTEXTILE SHALL HAVE A PUNCTURE RESISTANCE OF 150 LBS (0.68 kN) PER ASTM D4833 TESTING METHOD.
8. THE GEOTEXTILE SHALL HAVE A CBR PUNCTURE RESISTANCE OF 900 LBS (4.00 kN) PER ASTM D6241 TESTING METHOD.
9. THE GEOTEXTILE SHALL HAVE A UV RESISTANCE OF 70% @ 500 HRS. PER ASTM D4355 TESTING METHOD.
10. THE GEOTEXTILE SHALL HAVE A PERMITTIVITY RATING OF 0.05 SEC-1 PER ASTM D4491 TESTING METHOD.
11. THE GEOTEXTILE SHALL HAVE A WATER FLOW RATING OF 4 GPM/FT² (160 LPM/M²) PER ASTM D4491 TESTING METHOD.
12. THE GEOTEXTILE SHALL HAVE A PERCENT OPEN AREA OF <1% PER CW-02215 TESTING METHOD.
13. THE GEOTEXTILE SHALL HAVE AN APPARENT OPENING SIZE OF 40 US STD. SIEVE (0.425 MM) PER ASTM D4751 TESTING METHOD.
14. THE GEOTEXTILE SHALL CONSIST OF A 100% HIGH-TENACITY, SALT-FILM POLYPROPYLENE YARNS.



GENERAL EROSION CONTROL AND CONSTRUCTION NOTES

1. THE LIMITS OF ALL CLEARING, GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN TOTALLY UNDISTURBED.
2. INSPECT ALL SEDIMENT AND EROSION CONTROL MEASURES AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL EVENT.
3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES OR REPLACE AS REQUIRED TO ASSURE PROPER FUNCTION.
4. CONTRACTOR SHALL IMMEDIATELY REPAIR ANY AND ALL EROSION AND SEDIMENT CONTROLS FOUND TO BE DEFECTIVE.
5. ANY AND ALL DEBRIS AND LITTER WHICH ACCUMULATES IN THE BASINS SHALL BE REMOVED WEEKLY.
6. THE CONTRACTOR SHALL IMPLEMENT ALL REASONABLE EROSION AND SEDIMENT CONTROLS PRIOR TO THE ACTUAL COMMENCEMENT OF CONSTRUCTION ACTIVITIES INCLUDING THE CLEARING AND/OR GRUBBING OF ANY PORTION OF THE PROPERTY. THESE MEASURES SHALL BE MAINTAINED IN EFFECT THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, OR UNTIL THE SITE HAS BECOME STABILIZED WITH AN ADEQUATE VEGETATIVE COVER.
7. SEDIMENT BUILD UP BEHIND FILTERMATS SHALL BE MONITORED AND BE REMOVED WHENEVER IT HAS ACCUMULATED TO FOUR INCHES IN DEPTH.
8. CATCH BASINS SHALL BE PROTECTED WITH SILT FILTERS (SILT SACKS). INSPECT SEDIMENT FILTERS AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER RAINFALL THAT PRODUCES RUNOFF.
9. CLEAN OR REPLACE FILTERS WITHIN 24 HOURS OF INSPECTION WHEN SEDIMENT REACHES ONE HALF OF THE FILTER SACK DEPTH. CATCH BASINS SHALL BE PROTECTED BY SEDIMENT FILTERS.
10. THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED, SWIPS SHALL BE CLEANED WHENEVER SEDIMENT HAS ACCUMULATED TO A DEPTH OF 24 INCHES AND IMMEDIATELY FOLLOWING INSTALLATION OF PERMANENT PAVEMENT.
11. THE CONTRACTOR SHALL MAINTAIN AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS ON-SITE AT ALL TIMES FOR EMERGENCY OR ROUTINE REPLACEMENT AND SHALL INCLUDE MATERIALS TO REPAIR OR REPLACE SILT FENCE, MULCH SOAK, STONE FILTER Dikes OR ANY OTHER DEVICES PLANNED FOR USE DURING CONSTRUCTION.
12. THE CONTRACTOR IS TO INSPECT ALL CONTROLS NO LESS THAN WEEKLY, AND IN ANTICIPATION OF RAINFALL EVENTS EXPECTED TO EXCEED 1/2 INCH IN DEPTH. ANY DEFICIENCIES NOTED DURING SAID INSPECTION SHALL BE REPAIRED IMMEDIATELY AND IN NO CASE SHALL A DEFICIENCY BE ALLOWED TO GO UNCORRECTED DURING A RAINFALL EVENT. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED, REINFORCED, OR REPLACED IF NECESSARY. ALL ACCUMULATED SEDIMENTS AND OTHER MATERIALS COLLECTED.
13. THE EROSION CONTROL SYSTEMS SHALL BE REMOVED AS NECESSARY TO INSURE PROPER FUNCTION OF SYSTEMS AND DISPOSED OF IN A MANNER THAT IS CONSISTENT WITH THE INTENT OF THIS PLAN, IN AN UPLAND AREA.
14. TEMPORARY EARTH OR STONE DICES, DRAINAGE SWALES AND/OR TEMPORARY SLOPE DRAINS SHALL BE INSTALLED WHERE OFF-SITE OR ON-SITE RUNOFF IS SUFFICIENT ENOUGH SUCH THAT IT WILL BE NECESSARY TO DIVERT THE FLOW AROUND THE SITE OR PREVENT EROSION WITHIN THE LIMITS OF WORK.
15. STORM DRAIN INLET PROTECTION SHALL BE USED FOR ALL EXISTING AND PROPOSED CATCH BASINS IN THE PROJECT AREA. PRIOR TO COMPLETION OF THE PROJECT, ALL CATCH BASINS WITHIN THE PROJECT AREA SHALL BE CLEANED.
16. ALL DISTURBED EARTH SLOPES AREA TO BE STABILIZED WITH PERMANENT VEGETATIVE COVER, TO BE ESTABLISHED AS SOON AS POSSIBLE. DISTURBED AREAS THAT ARE NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL RECEIVE A PERMANENT OR TEMPORARY VEGETATIVE COVER AS SOON AS FINAL CONTOURS ARE ESTABLISHED. TEMPORARY VEGETATIVE COVER IS TO BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES WILL NOT REQUIRE ADDITIONAL DISTURBANCE FOR PERIOD OF 30 DAYS OR MORE. IF THE SEASON PREVENTS THE ESTABLISHMENT OF VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEED AS SOON AS WEATHER CONDITIONS ALLOW.
17. THERE SHALL BE NO DIRECT DISCHARGE OF Dewatering OPERATIONS INTO ANY DRAINAGE SYSTEM UNLESS THIS DISCHARGE IS CLEAN AND FREE OF SETTLEABLE SOLIDS. ANY Dewatering DISCHARGE CONTAINING SETTLEABLE SOLIDS (SEDIMENTS) SHALL BE PASSED THROUGH A SEDIMENTATION CONTROL DEVICE (FILTER BAG) TO REMOVE THESE SOLIDS. THE CONTRACTOR IS TO MAINTAIN SAID SEDIMENT CONTROL DEVICE THROUGHOUT THE ENTIRE Dewatering OPERATION AND REPAIR DEFICIENCIES IMMEDIATELY.
18. SOIL STOCKPILE AREAS FOR CONSTRUCTION MATERIALS SHALL BE LOCATED OUTSIDE WETLAND AREAS AND ASSOCIATED BUFFERS.
19. ALL PLANTINGS SHALL BE ACCOMPLISHED BY THE CONTRACTOR AS EARLY AS THE POSSIBLE UPON COMPLETION OF GRADING AND CONSTRUCTION.
20. ALL PLANTINGS SHALL BE WATERED AND MAINTAINED BY THE CONTRACTOR TO ENSURE SURVIVAL.
21. EROSION CONTROL SHALL REMAIN IN PLACE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED.

INTERIM EROSION CONTROL AND CONSTRUCTION SEQUENCE

1. INSTALL EROSION CONTROL BARRIERS AND HAVE ENGINEER INSPECT AND PREPARE LETTER.
2. CLEAR SITE OF ALL TREES DESIGNATED TO BE REMOVED. CONSTRUCT A TEMPORARY BASIN TO COLLECT RUNOFF DURING CONSTRUCTION.
3. STOCKPILE LOAM, OR REMOVE LOAM.
4. INSTALL PIPES FOR DRAINAGE SYSTEMS. INSTALL DISCHARGE POINT ON EACH SYSTEM.
5. BRING SITE TO SUB-GRADE.
6. ALL SLOPES ALONG THE PROPERTY LINES SHALL BE MULCHED TEMPORARILY, IF DISTURBED.
7. TEMPORARY STONE (3/4\"/>

NOTE
RETAINING WALL TO BE DESIGNED AND INSPECTED BY MANUFACTURER
DESIGNER SHALL PROVIDE STAMPED STRUCTURAL DRAWINGS

APPROVED DATE:
FRANKLIN PLANNING BOARD

DATE:
BEING A MAJORITY

3/30/18

PROFESSIONAL ENGINEER
DALE MACDONALD
MASSACHUSETTS REGISTERED PROFESSIONAL ENGINEER

OWNERS:
WHITMAN HOMES, INC.
1200 TURNPIKE STREET
CANTON, MA 02021

51 CHESTNUT STREET
ASSESSOR MAP 285 PARCEL 096
BOOK 35063 PAGE 285

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BOOK 11172 PAGE 684
BOOK 23277 PAGE 64
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BOOK 18066 PAGE 91
BOOK 23277 PAGE 62
BOOK 23284 PAGE 522

REVISIONS

DATE	REVISED

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55 WEST CENTRAL STREET
FRANKLIN, MA 02038
Fx. (508) 528-7921
www.gandhengineering.com

CHESTNUT SENIOR VILLAGE

SITE PLAN OF LAND CHESTNUT STREET FRANKLIN MASSACHUSETTS

CONSTRUCTION DETAILS

DATE	SCALE
MARCH 30, 2018	1"=20'

SHEET	JOB NO.
11 OF 11	F3183