

BELLINGHAM PLANNING BOARD

10 MECHANIC STREET BELLINGHAM, MASSACHUSETTS 02019 (508) 657-2892 PlanningBoard@bellinghamma.org

CERTIFICATE OF APPROVAL OF A DEFINITIVE SUBDIVISION PLAN AND STORMWATER MANAGEMENT PLAN PERMIT PROSPECT HILL ESTATES May 11, 2023

A. BACKGROUND

Applicant:

Wall Street Development Corp

P.O. Box 272

Westwood, MA 02090

Owner:

Wall Street Development Corp

P.O. Box 272

Westwood, MA 02090

Public Hearing:

The Public Hearing opened January 27, 2022 at 7:00 PM. Notice for the public meeting was published in *The Milford Daily News* on January 13, 2022 and January 20, 2022. The Public Hearing was continued to February 24, 2022, March 23, 2022, May 12, 2022, August 11, 2022, December 8, 2022, January 26, 2023, March 23, 2023, April 13, 2023 and May 11, 2023 when the Public Hearing was closed.

Date of Vote:

May 11, 2023

The Premises:

The project, also referred to herein as the "Site", consists of a 17 single family residential subdivision lots greater than two acres. The project is located at the corner of Lake Street

and Prospect Street (in the Town of Franklin) on

approximately 72.16+/- acres show on Assessors Map 65-

20, 65-22, and 69-87, zoned Agriculture.

The By-law

Section 245-10, Subdivision Regulations, Definitive Plan; Section 240-54, Zoning Bylaw, Stormwater Management

The Proposal:

To construct 17 single family residential subdivision lots

greater than two acres.

The Proposal was documented with the following materials:

- 1. Application for Definitive Subdivision, dated December 17, 2021, including a narrative and project description.
- 2. Application for Stormwater Management Permit, received December 17, 2021.
- 3. Certificate of Ownership, dated December 17, 2021.
- 4. Certificate of Municipal Taxes and Charges Paid, received December 20, 2021.
- 5. Certified Abutter's List, Town of Bellingham, dated December 14, 2021.
- 6. Waiver Requests, last revised October 11, 2022.
- 7. Definitive Subdivision Plan, Prospect Hill Estates, A Single Family Residential Subdivision, Bellingham, Massachusetts, by GLM Engineering Consultants, last revised April 5, 2023. (also known as the Approved Plan)
- 8. Prospect Hill Estates, DEP File #105-0940 & BWP-312, Order of Conditions, dated March 28, 2023.
- 9. Stormwater Management Report, by GLM Engineering Consultants, last revised October 11, 2022.
- 10. Traffic Review Letter, by Kimley and Horn, dated September 28, 2022.
- 11. Town of Franklin Planning Board, Letter of Concern regarding Access, dated June 22, 2021.
- 12. Town of Franklin Planning Board, Certificate of Vote, Definitive Subdivision Prospect Hill, dated March 13, 2023.
- 13. Memo to the Board, Don DiMartino, DPW Director, dated January 24,2022.
- 14. Email Comments, Bruce Wilson, Board of Health Agent, dated March 23, 2022.
- 15. Peer Review of Stormwater, by BSC Group, dated August 11, 2022.
- 16. Response to Peer Review, by GLM Engineering Consultants, dated October 11, 2022.
- 17. Peer Review of Stormwater and Traffic, by BSC Group, dated December 14, 2022.
- 18. Other miscellaneous documents on file at the Planning Board offices.

B. DETERMINATIONS

- 1. Completeness and technical adequacy of all submissions have been reviewed and confirmed to meet the Bellingham Zoning Bylaws and the Rules and Regulations Governing the Subdivision of Land for the Town of Bellingham or relief has been granted.
- 2. The Board has determined that development at this location pursuant to the Conditions of Approval (below) does not entail unwarranted hazard to safely, health and convenience of future residents of the development or of others because of possible natural disasters, traffic hazard or other environmental degradation.
- 3. The Board confirmed that the proposed subdivision has been designed and improvements have been made by the developer consistent with the requirements of Article IV of the Planning Board Subdivision Regulations.
- 4. Determination of environmental impacts is based upon the environmental analysis that has been concurrently reviewed by the Conservation Commission. The Board has been unable to determine that the subdivision as designed will not cause substantial and irreversible damage to the environment, which damage could be avoided or ameliorated through an alternative development plan. The Conservation Commission denied without prejudice an Order of Conditions. The Bellingham Conservation Commission found that the Project as previously proposed did not satisfy the requirements of the Wetland Protection Act ("WPA") and WPA Regulations and could not be conditioned to meet the performance standards. The Commission also found that the information submitted by the applicant was not sufficient to describe the site, the work, or the effect of the work on the interests identified in the WPA. The Commission also found that the application lacked the necessary information that a peer review consultant would presumably have supplied. Since that denial, the developer has designed the subdivision utilizing low impact design techniques and has amended the plan to reduce disturbance to certain resource areas.
- 5. Access meets and exceeds standards as provided by Subdivision Regulations §245-6. The Board is in receipt of a determination from the Town of Franklin that the Site has adequate access from Prospect Street with conditions. The Board shall incorporate these conditions below. All ways proposed shall be private in perpetuity.
- 6. The Board determined that improvements may be necessary to Lake Street and Prospect Street intersection. If further improvements are required at this location the Developer shall notify direct abutting property owners.

D. CONDITIONS OF APPROVAL

Approval is granted on the condition that prior to endorsement of the Planning Board's approval the developer shall furnish guarantees to the Planning Board as provided in the Subdivision

Regulations that except as otherwise expressly provided in G.L. c. 41, Section 81-U, no lot included in the subdivision shall be built upon or conveyed until the work on the ground necessary to serve such lot has been completed in the manner specified by the Subdivision Regulations of the Town of Bellingham or a performance bond or other security in lieu of completion has been accepted by the Planning Board. The Applicant shall be permitted to choose the type of security instrument that is authorized under §81U but the actual form of such instrument is subject to the prior review and approval of Town Counsel.

The Plan is approved with the following additional specific conditions:

I. General Conditions

- 1. The Approval is limited to the improvements as noted on the Approved Plan, and as may be conditioned herein. Any changes to such Plan shall be reviewed and approved in accordance with the Bellingham Zoning Bylaws and Subdivision Rules and Regulations. If the Planning Board determines that any change to the plan is a major alteration to the Approved Plan, a public hearing shall be required for a modification to this permit.
- 2. The roadways and infrastructure depicted on the Plans shall be maintained by the Applicant and its successors in perpetuity. The Definitive Subdivision has been designed to the standards of a private way and shall be maintained as such in perpetuity.
- 3. A Planning Board or DPW representative (i.e., inspector and/or engineer) shall be charged with general oversight over the construction activities of the project. In this capacity, the representative shall, during periods of active construction, conduct periodic inspections as reasonably necessary to ascertain the status and nature of work at the site and provide reports to the DPW and Planning Board. In addition, the Applicant shall also provide the representative with any pertinent photographs, logs, data or other information that may be helpful in the monitoring process.
- 4. The Planning Board or DPW's representative and the Town Counsel's reasonable fees for any services contemplated hereunder shall be paid by the Applicant in the manner prescribed by G.L. c. 44, §53G. The Applicant shall also pay for all third party inspections of project infrastructure, as may be reasonably required by the DPW or the Planning Board.
- 5. The hours of operation for any construction or staging activities on-site shall be Monday through Friday, from 7:00 am to 6:00 pm. Construction activity shall also be permitted on Saturdays from 9:00 am to 6:00 pm. These activities shall include all equipment on site shall not start up or remain on before or after the hours listed above. No construction activity shall take place outside the specified permitted hours or on Sunday or New Years' Day, Memorial Day, July Fourth, Labor Day, Thanksgiving, Christmas, or other legal holiday. No idling for longer than 5 minutes, if vehicles and equipment are not in operation.

- 6. The Applicant shall strictly adhere to any and all agreements by and between it and the Town of Bellingham. Any breach of such agreements shall constitute a violation of the terms of this permit.
- 7. This permit shall not be valid until recorded with the Norfolk County Registry of Deeds and evidence of such recording is provided to the Planning Board and the Inspector of Buildings.
- 8. Any and all easements and restrictions that may be necessary to complete and occupy the Project shall be in a form approved by the Town Counsel.
- If any part of this Decision is for any reason held invalid or unenforceable, such
 invalidity or unenforceability shall not affect the validity of any other portion of this
 Decision.
- 10. This Decision is binding on the Applicant's successors, assigns, agents, and employees. This approval shall insure to the benefit of and binding upon Wall Street Development Corp provided there is no change in use for the Premises. The Planning Board shall be notified in writing within ten days of any changes in affiliates and successors in title and additional users of the Premises.

II. Phases of Construction

The Subdivision shall be constructed in one phase. All proposed improvements including construction of all ways and installation of municipal services for each lot in accordance with the Plan and the applicable Rules and Regulations Governing the Subdivision of Land for the Town of Bellingham are to be completed within a period of 8 years from this date, provided that, for good cause shown, the Applicant may seek reasonable extensions, which the Board may review and approve administratively without need for a public hearing.

III. Commencement of Construction

Commencement of construction shall begin within five years following the date of approval of this decision. "Date of approval" is hereby defined as the date this Decision is certified by the Town Clerk that no appeal is filed, or the date the last appeal is decided or otherwise terminated favorably to the Applicant in the event of an appeal. As used herein, "commencement of construction" is hereby defined as any clearing or preparation of the Site for development of the project approved herein. Commencement shall not begin until such time as all conditions found in Section V. below have been completed to the satisfactory of the Planning Board.

IV. Prior to Plan Endorsement

As per Chapter 41 Section 81U an applicant shall provide a fully executed security agreement. The amount of such security shall be established by the Director of the Department of Public Works and the agreement shall be in a form approved by the Planning Board, which may seek

advice of the Town Counsel, such approval not to be unreasonably withheld. The Planning Board shall review and approve both the amount and agreement prior to endorsement of the Plan.

V. Prior To Construction

- 1. The Applicant shall notify the Department of Public Works and the Planning Board in writing no later than 30 days prior to the start of construction to schedule a pre-construction meeting with the Applicant and the contractor(s). If at any point individual lots are to be sold to contractors not affiliated with the Applicant or their successors, the contractors not affiliated with the Applicant or their successors shall be required to have a preconstruction meeting with the Building Inspector and Town Planner prior to the issuance of a Building Permit for each and every lot the contractor is applying for.
- 2. The Developer shall provide an updated road profile plan set to the Department of Public Works Director prior to construction to confirm the ways that exceed the maximum change in grade as defined in Section 245-12E.(8) shall be retain the health, safety and welfare of the community. If the Director requests changes to the plan the Developer shall complete such changes and submit the changes to the Board prior to construction.
- 3. The Developer shall request the Fire Chief determine location of fire hydrants and submit an agreed hydrant location exhibit to the Planning Board.
- 4. A final stormwater peer review shall be completed. The Developer has adjusted the drainage infrastructure prior to the last Planning Board hearing. The Board relies on a peer review engineer to review and confirm compliance with the Bellingham Stormwater Regulations. Such review shall be completed prior to the commencement of construction and all recommendations by the peer review shall be presented to the Planning Board at a regularly scheduled meeting of the Board. All recommended improvements by the Board shall be implemented into the plan by the Developer.
- 5. Soil testing shall be completed in compliance with 245-10A.(1)(e) prior to construction. The Developer may submit a request to the Planning Board to reduce the number of test pits once Condition 4 has been completed. The Developer shall present this request at a regularly scheduled meeting of the Planning Board.
- 6. A Stormwater Pollution Prevention Plan shall be provided to the Planning Board for review and approval.
- 7. A Definitive Subdivision Lighting Plan shall be provided to the Planning Board for review and approval.
- 8. An Order of Conditions has not been approved for this Site. Prior to a decision rendered by the Planning Board, an appeal to the denial of the Order of Conditions has been filed. Given that any approval, denial, or remand of the Department of Environmental Protection may alter the Approved Plan, the Planning Board shall review any changes to the Approved Plan, and if the Board deems necessary, shall require an environmental analysis and/or traffic

analysis. Such analysis shall be submitted to the Board at a regularly scheduled meeting of the Board. All changes shall be reviewed and approved prior to construction.

- 9. If further improvements are required to Lake Street and Prospect Street intersection the Developer shall notify direct abutting property owners 14 days prior to construction. All required easements shall be executed and recorded at the Norfolk County Registry of Deeds prior to disturbance of land.
- 10. Any construction easements necessary outside the Site shall be obtained prior to land disturbance. The Developer shall notify the landowners in which the construction easements occupy 10 days prior to land disturbance.

VI. Prior to Issuance of First Building Permit

Prior to approval of Building Permits for any structures within the subdivision the following shall have been completed:

- 1. The Inclusionary Housing permit shall be approved, including the identification of the parcel to be affordable and timing of construction and occupancy for unit.
- 2. The location of all street trees shall be clearly marked in the location where the tree is to be planted as per §245-15C(2)(f)(4). Any existing trees to be kept will be inspected by the Bellingham Tree Warden. A Landscape Plan shall be submitted to the Planning Board prior to construction and shall be reviewed and approved during a regularly scheduled meeting of the Board.

VII. Prior to Issuance of First Building Occupancy Permit

Prior to application for Occupancy Permits for any structures within the subdivision, the following shall have been completed:

- 1. Driveway aprons have been surfaced with a binder course of pavement for the lot that is to be occupied as shown on the plans.
- 2. Tree, stump, brush, blasted rock or other debris created by the construction of the public improvement have been removed from the lot that is to be occupied.
- 3. The DPW has signed off on the building card for each lot on which occupancy permits are sought verifying that the development of the lot has not resulted in any damage to the roadway or facilities since the performance bond or security deposit was established and has maintained the Street and "Not Public Way" signs.

4. The applicant has abided by all requirements of the Rules and Regulations Governing the Subdivision of Land for the Town of Bellingham.

VIII. Completion of Construction

Failure of the developer to complete the construction in the time noted above shall result in an automatic lapse of this approval, unless otherwise extended by the Planning Board at the request of the Applicant. An extension request shall be made at least 30 days prior to the permit expiration.

IX. Prior To Release of Final Security

The following shall have been completed prior to release of final security.

- 1. Arrangement satisfactory to Planning Board on advice of the Director of Public Works shall be made to secure permanent maintenance of the stormwater management system. Such maintenance shall be administered and completed by the Homeowners Association in perpetuity. The Developer shall provide proof of executed Homeowners Association Bylaws incorporating such maintenance.
- 2. Record plans. Upon completion of construction, and before release of the final security, the Developer shall prepare and submit stamped As-Built Plans for review and approval as to conformance with the Approved Plan.

Respectfully submitted,

William F. O'Connell, Chairman

Brian T Salisbury, Vice Chairman

Dennis J. Trebino

Nick Mobilia

Phillip M. Devine

Planning Board

Date: May 11, 2023

DEFINITIVE SUBDIVISION PLAN "PROSPECT HILL ESTATES" A SINGLE FAMILY RESIDENTIAL SUBDIVISION BELLINGHAM, MASSACHUSETTS APPROVED BY THE

Date: December 17, 2021 Revised: March 2, 2022

July 12, 2022

FRANKLIN FRANKLIN /

LOCUS MAP 1"=800'

1. THE HOMES WILL BE SERVICED BY INDIVIDUAL PRIVATE WELLS AND ONSITE SEWAGE DISPOSAL SYSTEMS.

PLAN REFERENCE:

PLAN No.712 OF 1985 PLAN No.425 OF 1960

NORFOLK COUNTY REGISTRY OF DEEDS

PLAN BOOK 323 (No.712 OF 1985 PLAN BOOK 388 (No.1176 OF 1989 PLAN BOOK 234 (No.976 OF 1972

PLAN BOOK 231 (No.392 OF 1972

RECORD BOOK 861, PAGE 506

ASSESSOR'S REFERENCE:

FRANKLIN:

MAP 309, LOT 018 MAP 308, LOT 079

BELLINGHAM:

MAP 69, LOT 87

MAP 65, LOT 22 MAP 65, LOT 20

OWNERS OF RECORD:

940 SOUTH MAIN ST. BELLINGHAM, MA

2. WALL STREET DEVELOPMENT CORP.

P.O. BOX 101

BELLINGHAM, MA

P.O. BOX 272 WESTWOOD, MA

3. PAUL D. CLARKIN 137 LAKEVIEW AVE

BELLINGHAM, MA

LOT AREA:

FRONTAGE: SETBACKS: Front: 30' SIDE: 15' REAR: 20'

ZONING CLASSIFICATIONS: AGRICULTURAL

Single Family: 80,000 s.f Two Family: 160,000 s.f.

- 2. THIS PLAN IS THE RESULT OF AN ON-THE-GROUND SURVEY CONDUCTED BY GLM ENGINEERING CONSULTANTS, INC.. THE UTILITY LOCATIONS DEPICTED ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS MADE BY GLM ENGINEERING CONSULTANTS, INC., DIGSAFE PAINT-INDICATORS AND/OR RECORD PLAN LOCATIONS. GLM ENGINEERING CONSULTANTS, INC., DOES NOT WARRANT THAT ALL UTILITIES ARE SHOWN OR THAT UTILITIES THAT ARE DEPICTED ARE SHOWN IN THE CORRECT LOCATION OR WITH THE PROPER MATERIA DESIGNATION. GLM ENGINEERING CONSULTANTS, INC. DOES NOT WARRANT OR PROVIDE AN EXPRESS OR IMPLIED WARRANTY THAT ALL SUBSURFACE IMPROVEMENTS ARE SHOWN CORRECTLY, INCLUDING BUT NOT LIMITED TO UTILITIES, UNDERGROUND VAULTS, TANKS OR CHAMBERS DUCT BANKS AND/OR OTHER MAN-MADE UNDERGROUND IMPROVEMENTS. GLM ENGINEERING CONSULTANTS, INC. DOES NOT WARRANT THE LOCATION NOR CHARACTER OR SURFACE IMPROVEMENTS, THE OBSERVATION OF WHICH WAS OBSCURED AT THE TIME OF THE SURVEY.
- 3. THE PROPERTY DESCRIBED ON THIS SURVEY LIES WITHIN ZONE 'X' AND ZONE 'A' A SPECIAL FLOOD HAZARD AREA AS DEFINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY. THE PROPERTY IS IDENTIFIED AS MAP NUMBER 25021C0304E, EFFECTIVE DATE 07/17/2012. FLOOD ZONE 'A' IS LOCATED WITHIN THE BOREDERING VEGETATED WELTAND AREA.

PREPARED BY:

JI ENGINEERING CONSULTANTS, INC. 19 EXCHANGE STREET HOLLISTON, MASSACHUSETTS 01746 (508)429-1100 fax: (508)429-7160

APPLICANT:

WALL STREET DEVELOPMENT CORP. P.O. BOX 272 WESTWOOD, MASSACHUSETTS

BELLINGHAM PLANNING BOARD:

THIS IS TO CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD APPROVAL OF THIS PLAN WAS FILED WITHIN THE 20 DAY APPEAL PERIOD.

TOWN CLERK

DATE APPROVED: _____

APPROVAL SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT RECORDED HEREWITH. AND TO BE

I CERTIFY THAT THIS PLAN CONFORMS TO THE RULES & REGULATIONS OF THE REGISTER OF DEEDS

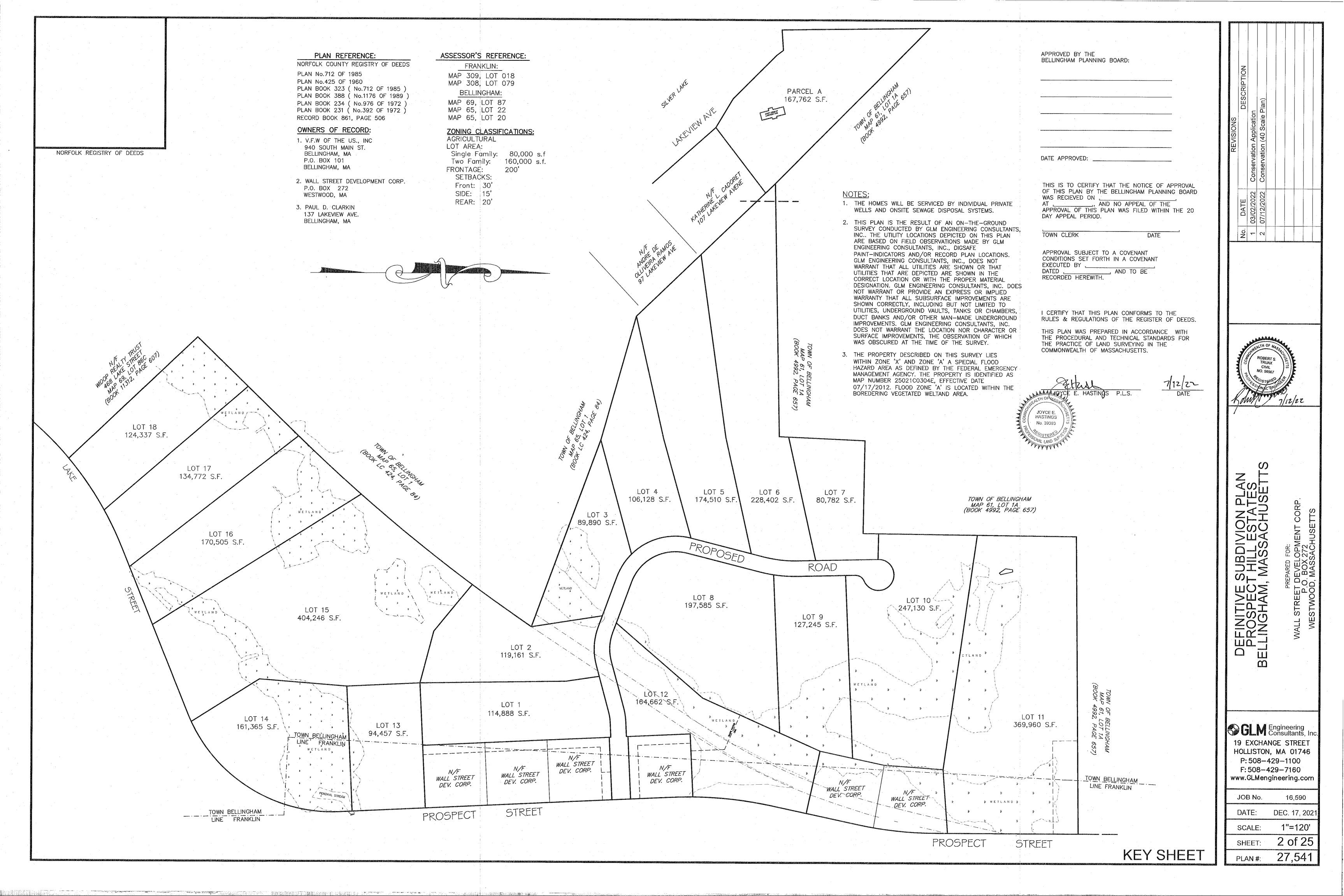
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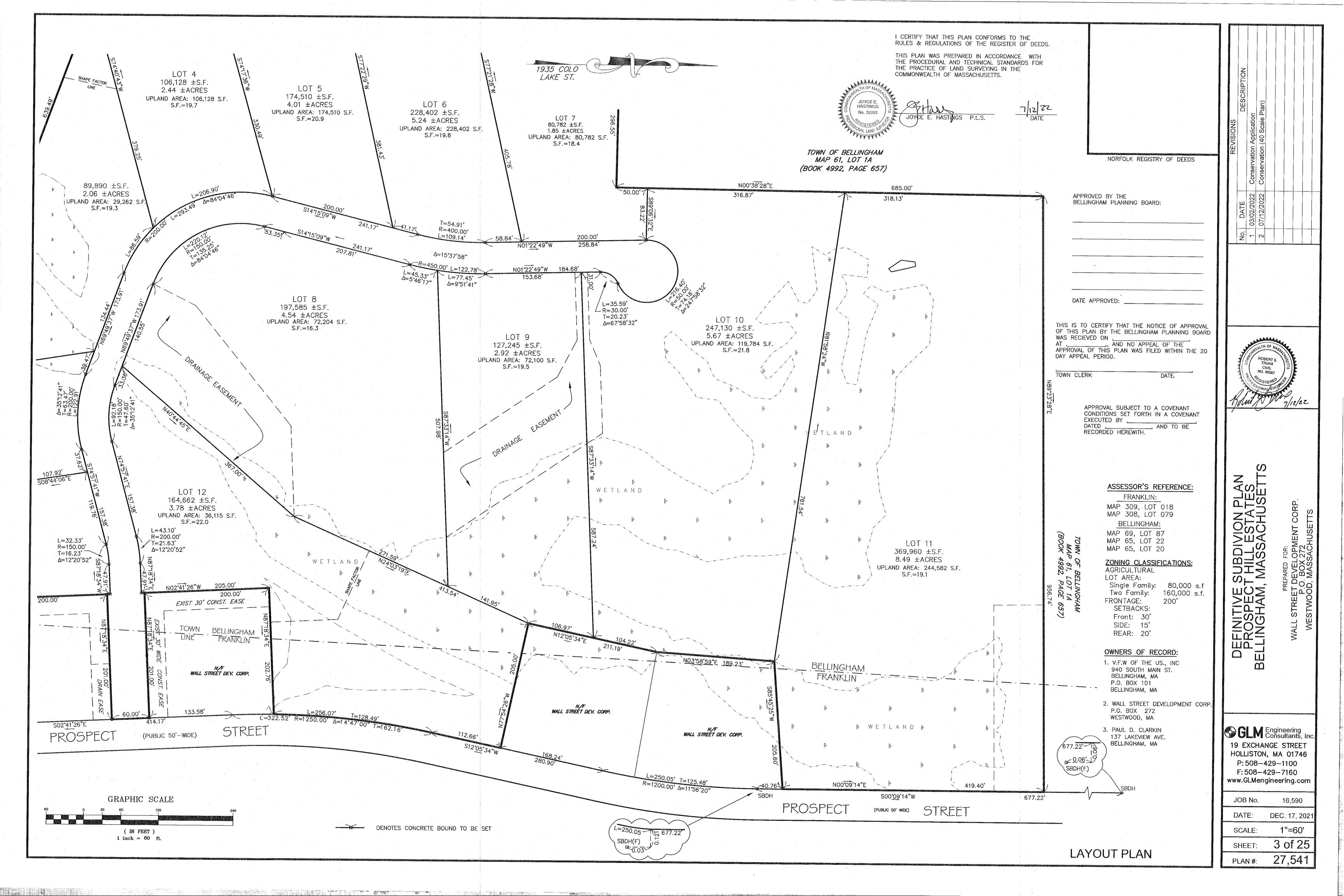
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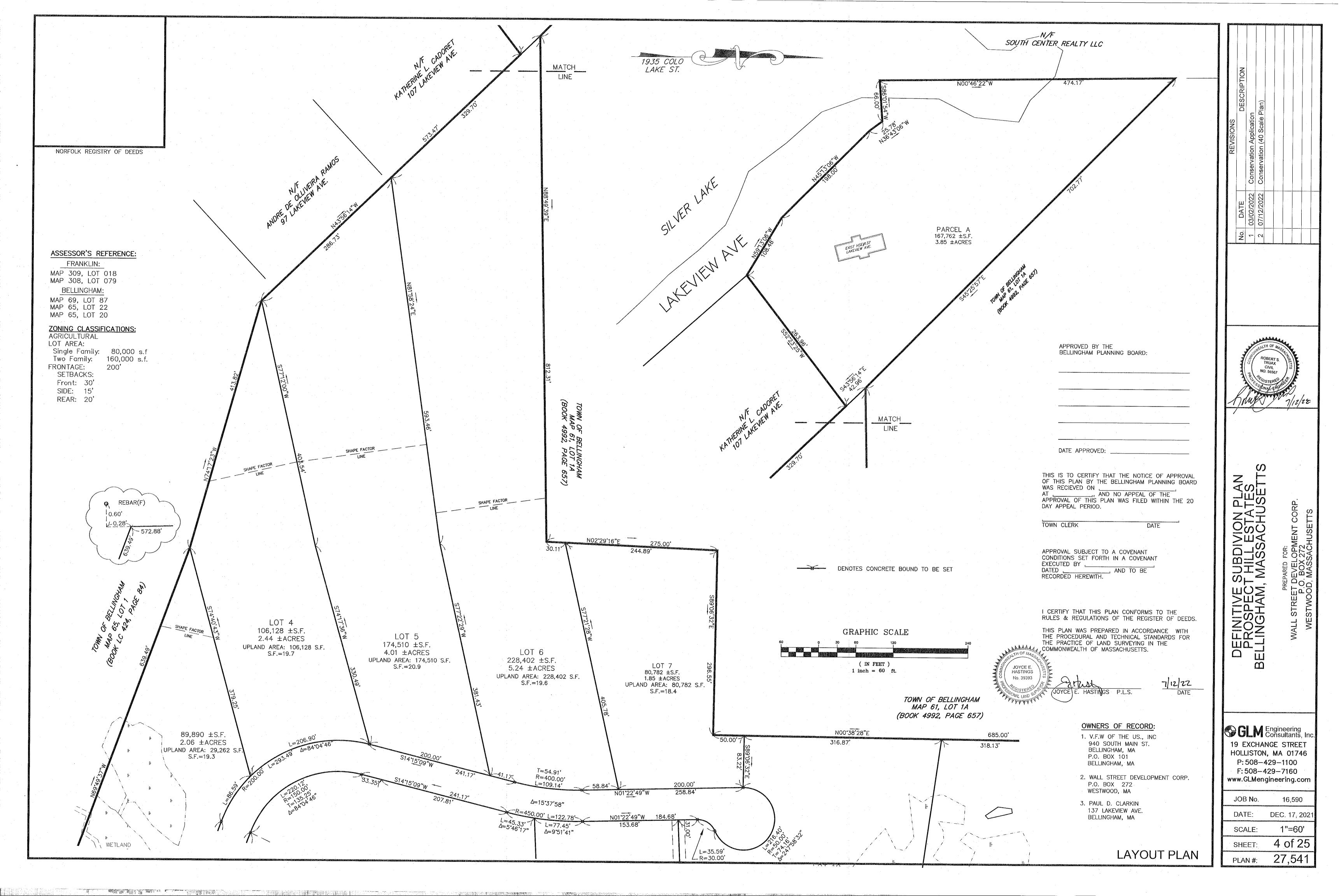
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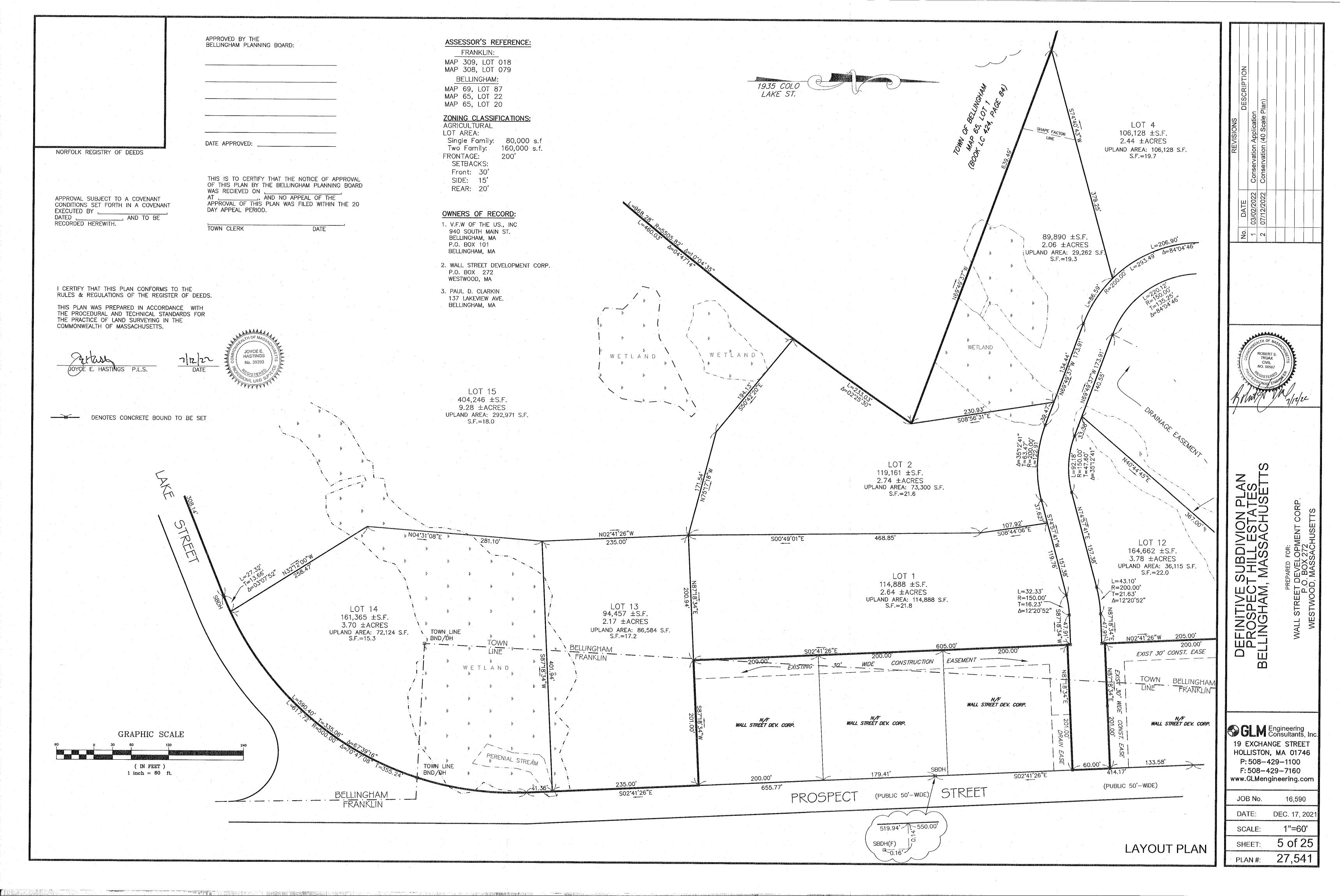
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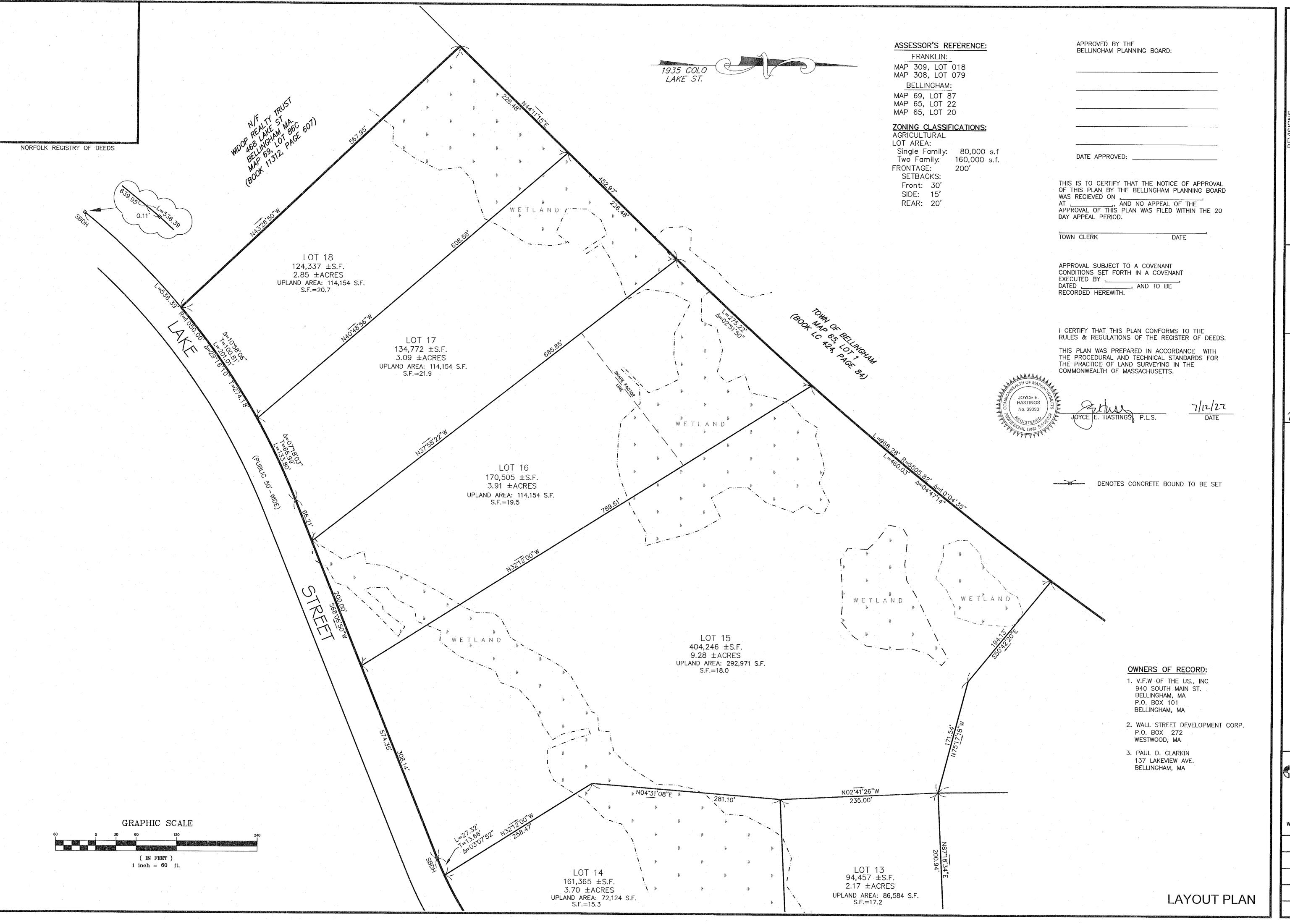
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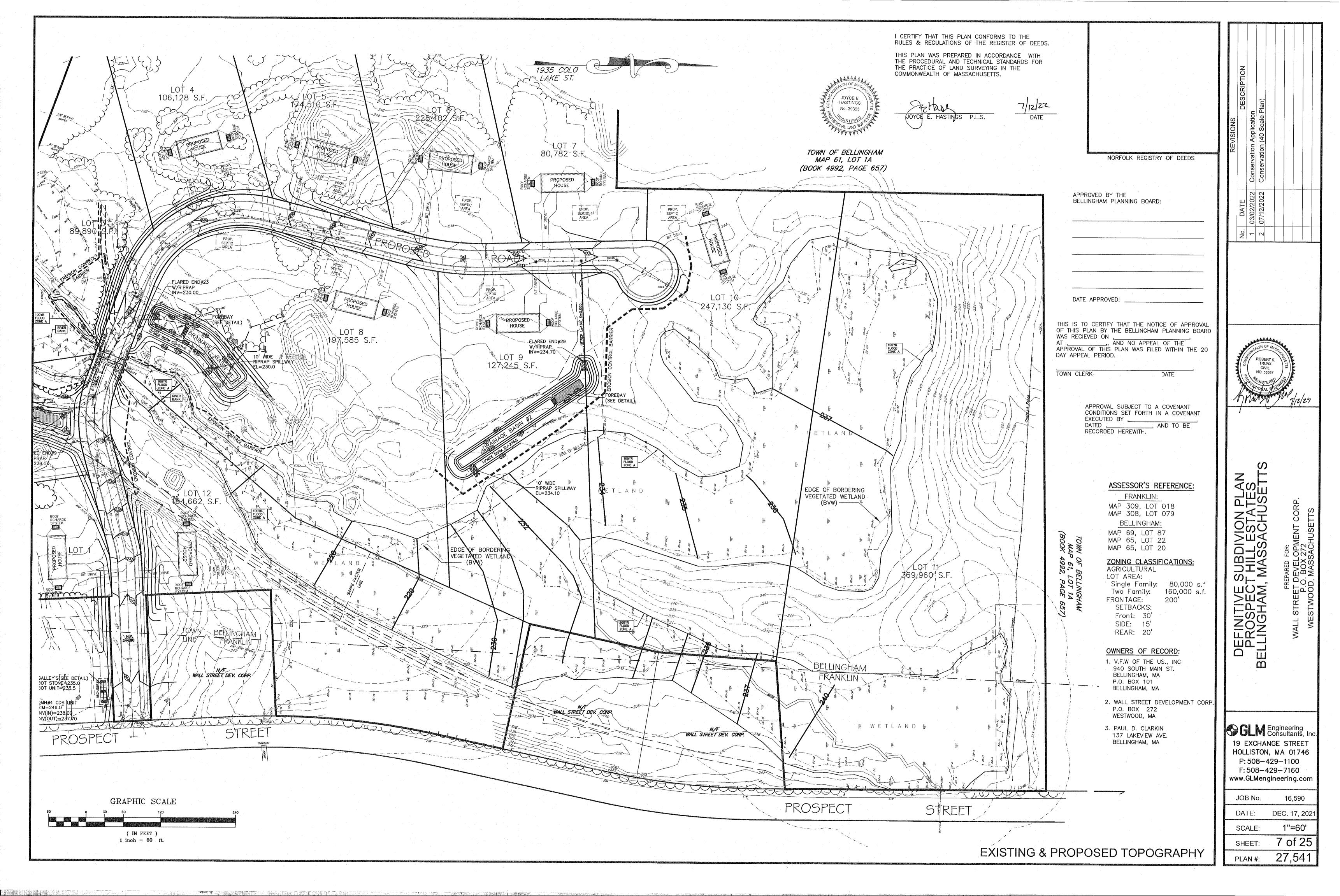
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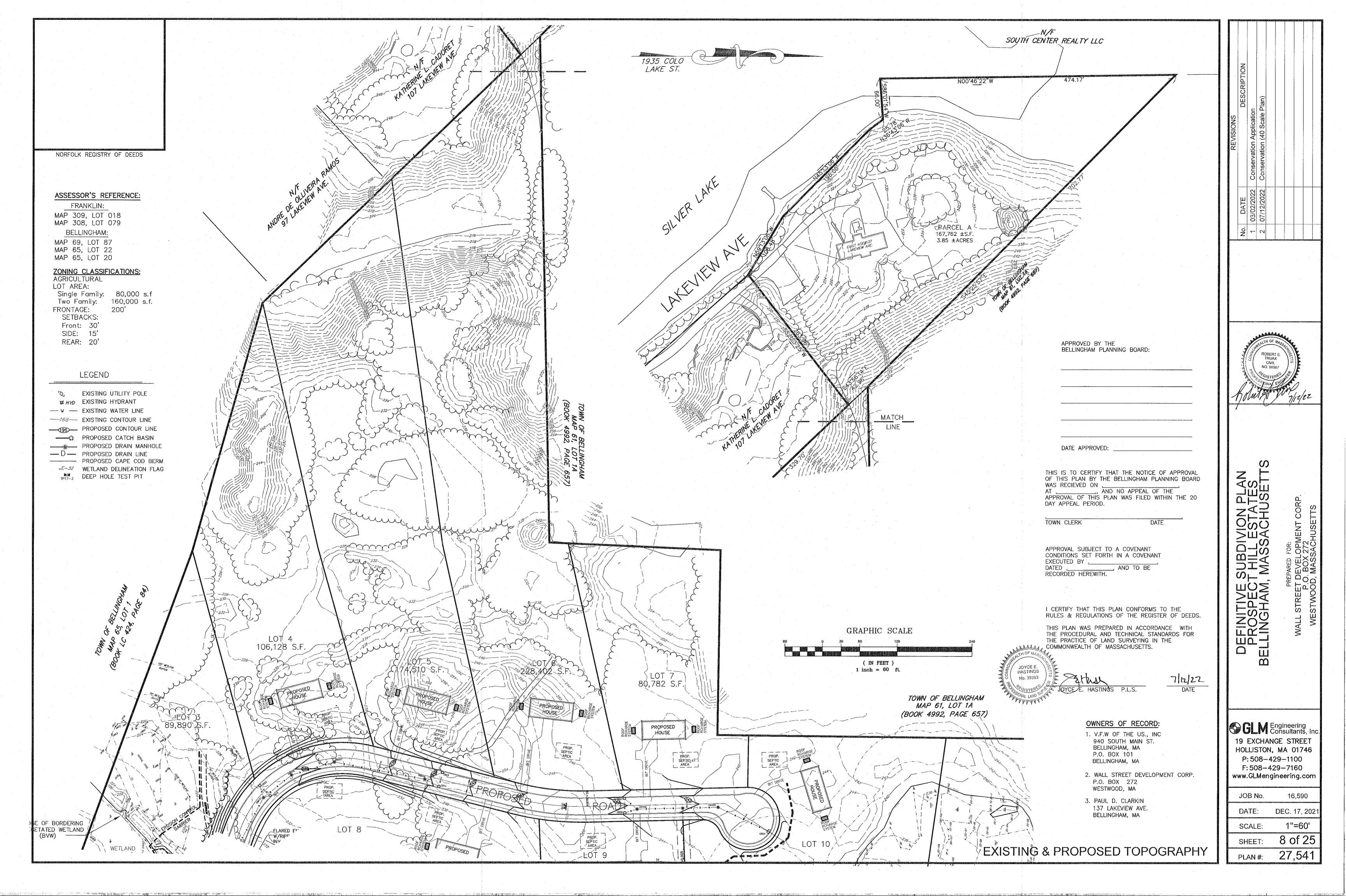
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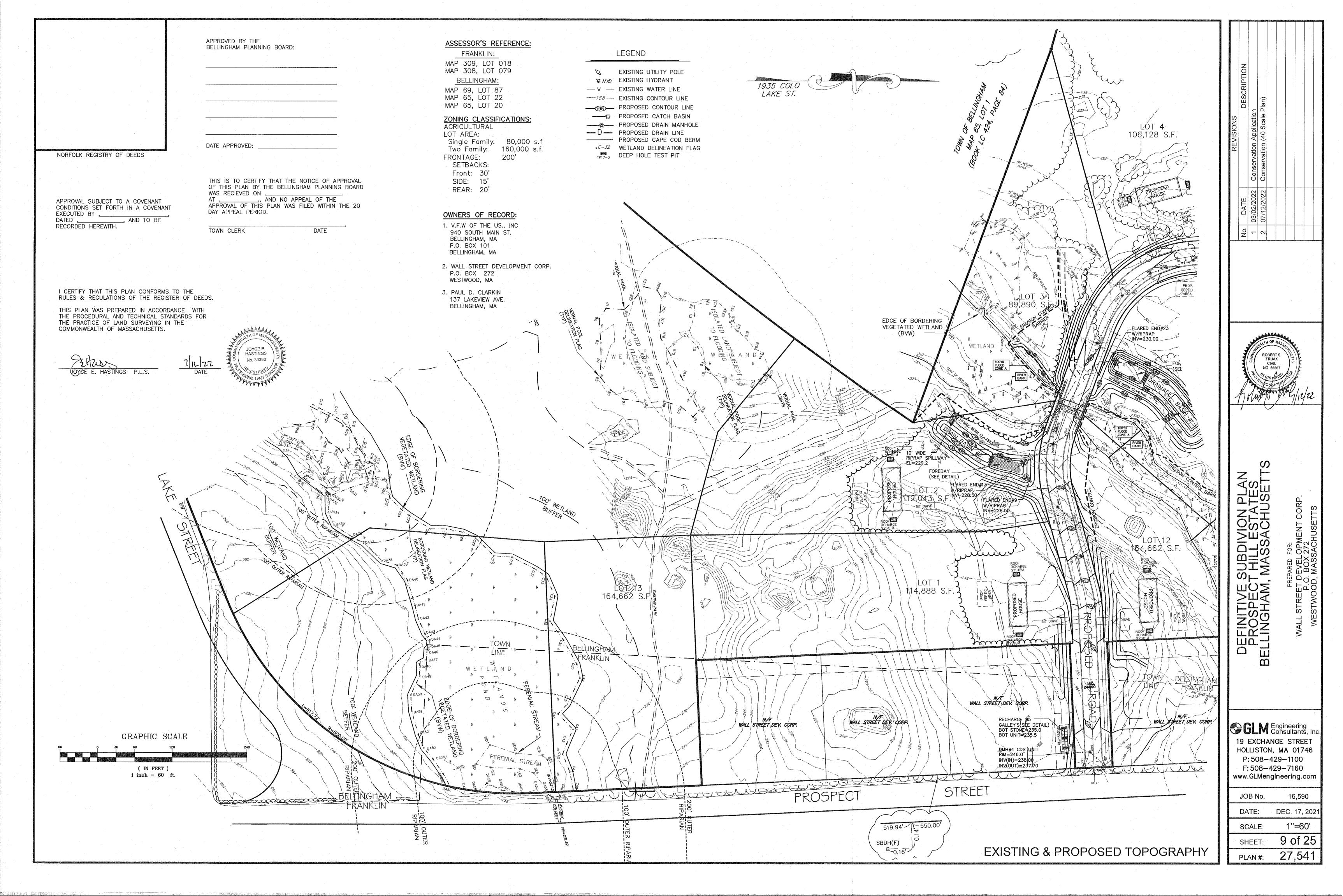
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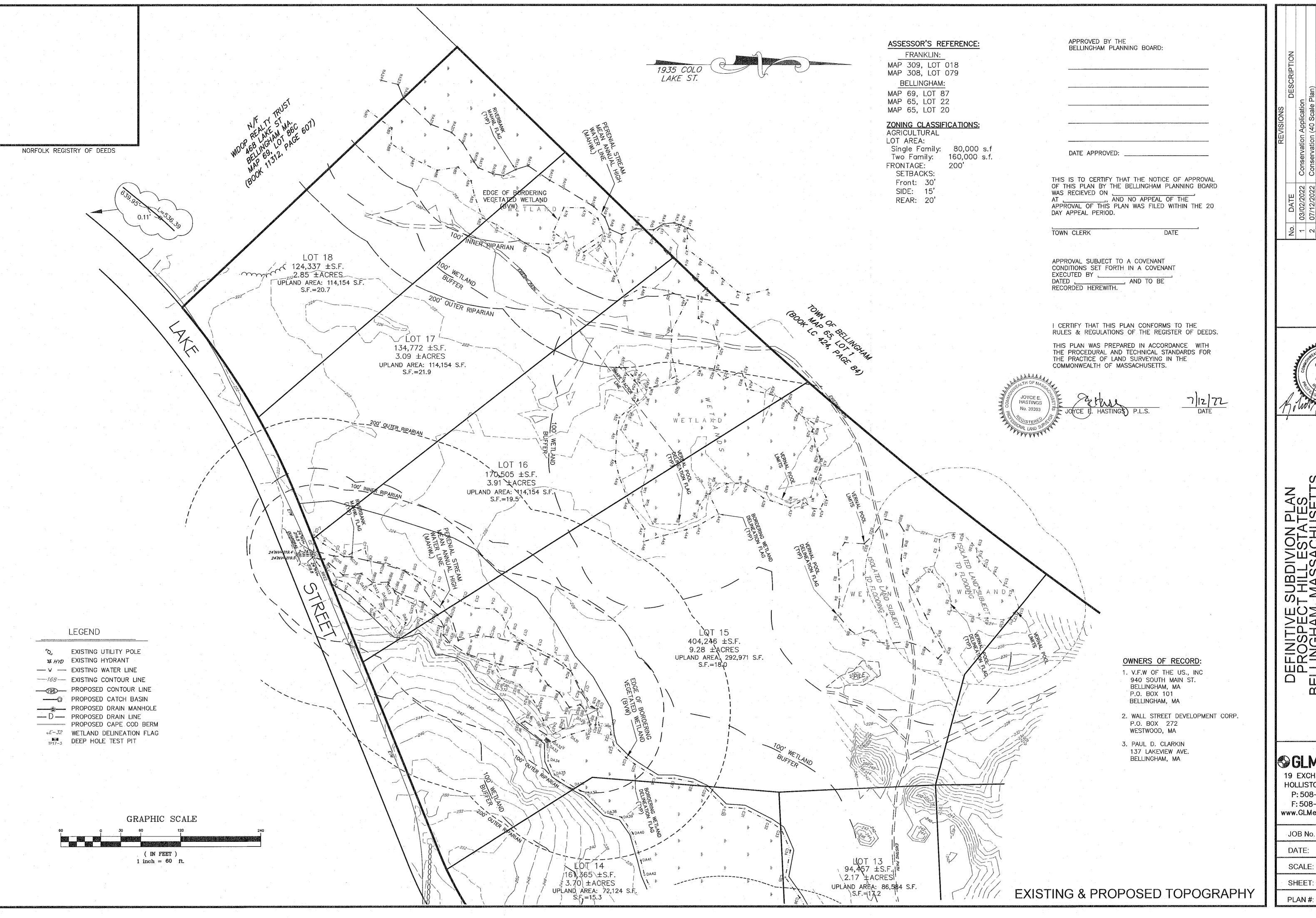
19 EXCHANGE STREET
HOLLISTON, MA 01746
P: 508-429-1100
F: 508-429-7160
www.GLMengineering.com

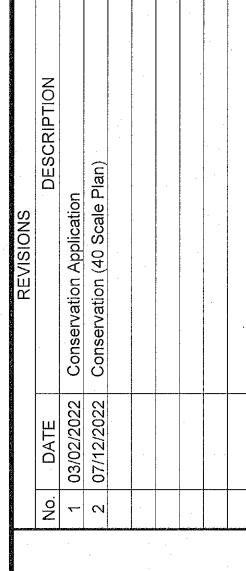
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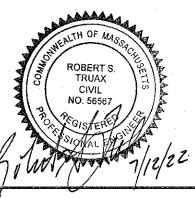












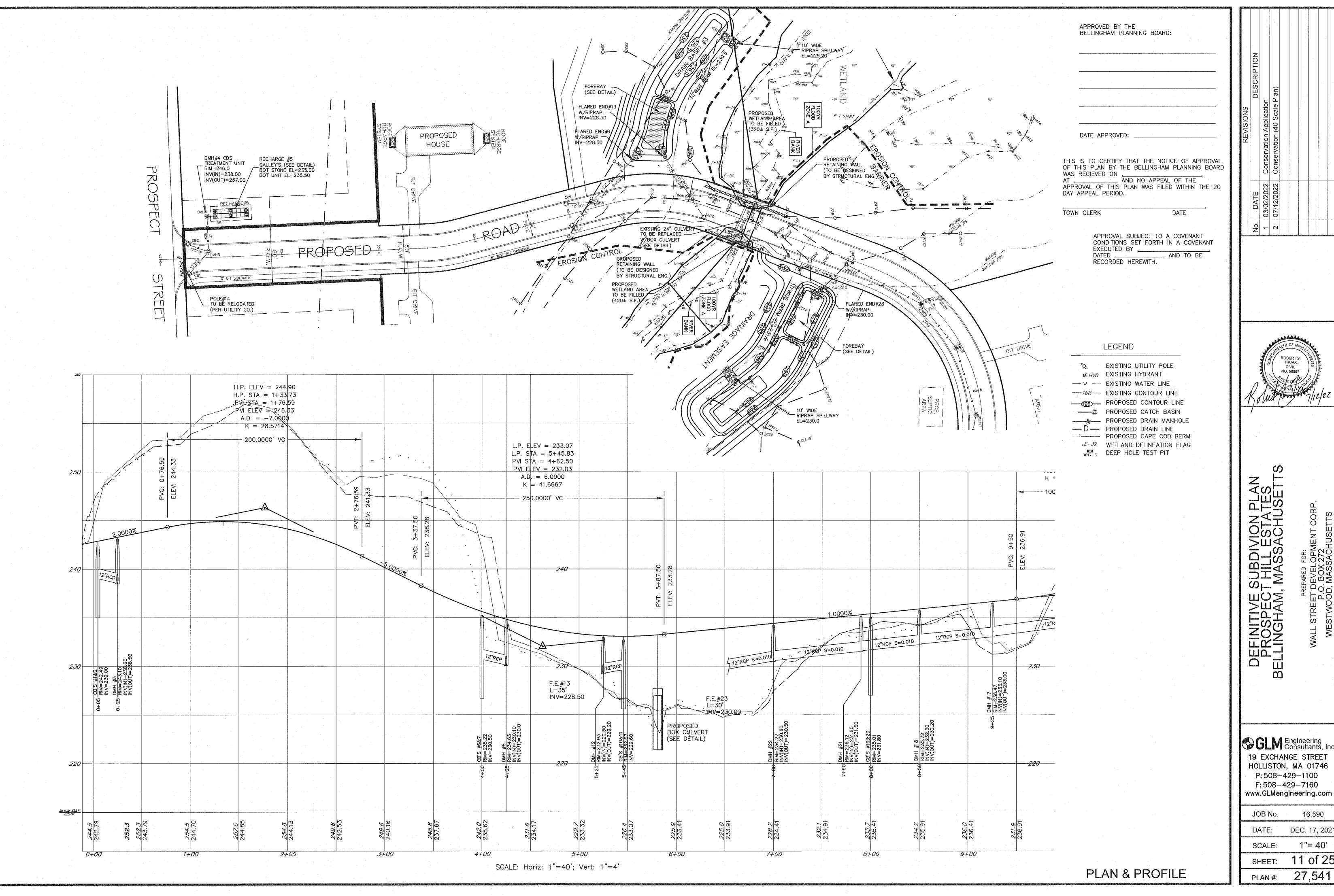
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GLM Engineering Consultants, Inc 19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160 www.GLMengineering.com

> JOB No. 16,590

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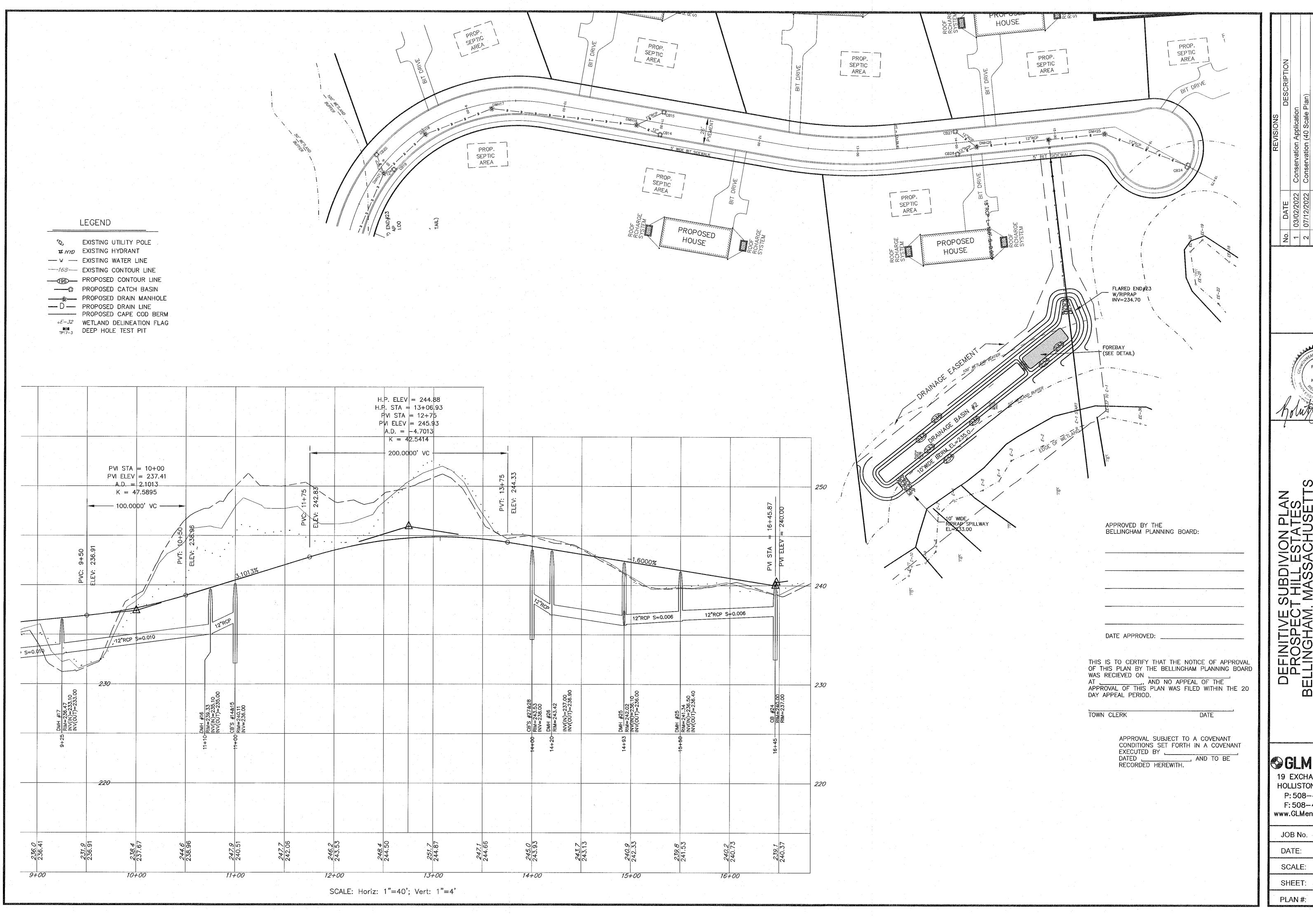


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P.O. BOX 272
F.STWOOD, MASSACHUSET

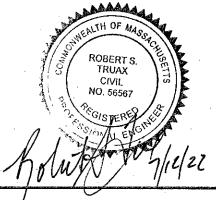
GLM Engineering Consultants, Inc. 19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160

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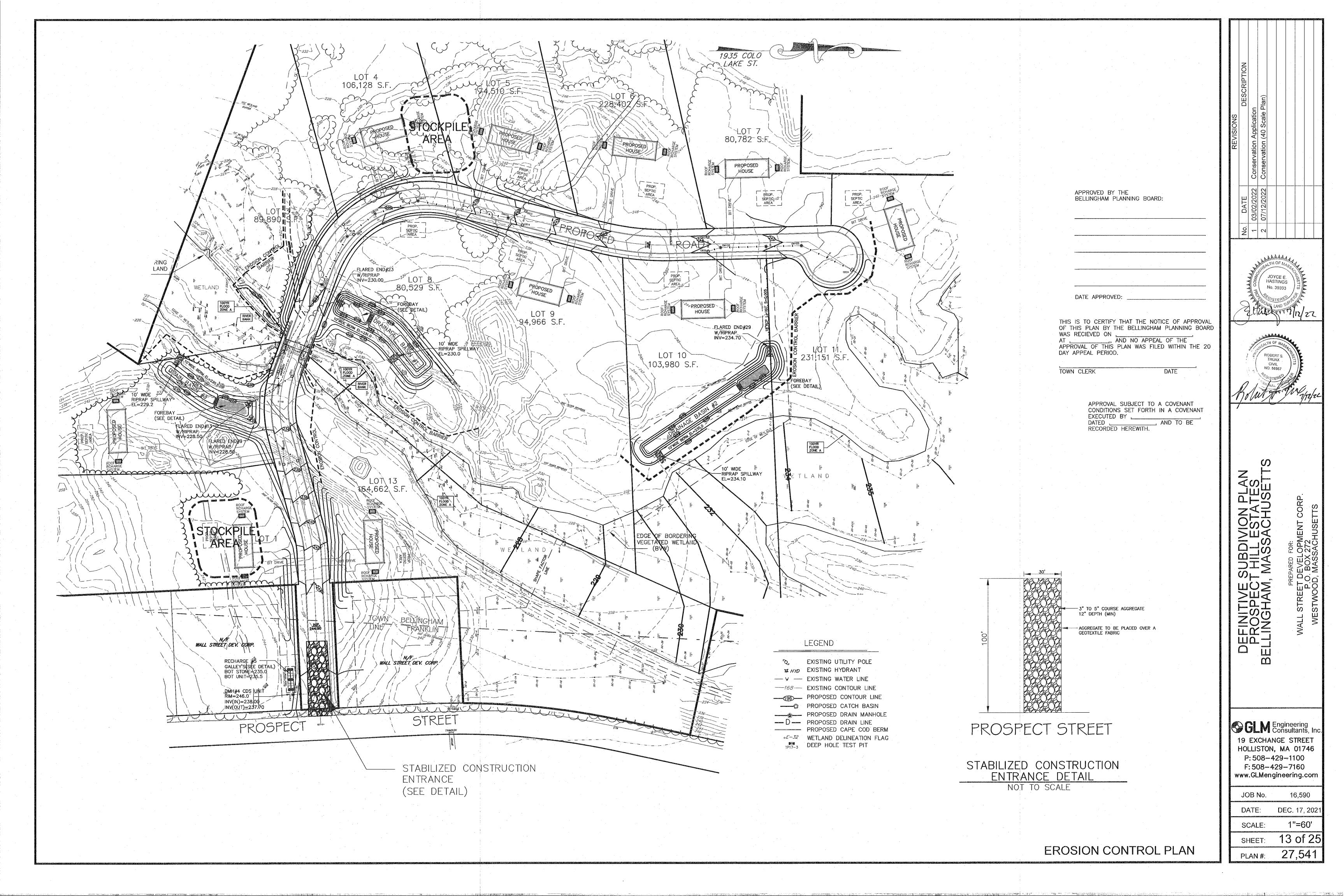
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GEM Engineering Consultants, Inc 19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160 www.GLMengineering.com

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EROSION AND SEDIMENTATION CONTROL.

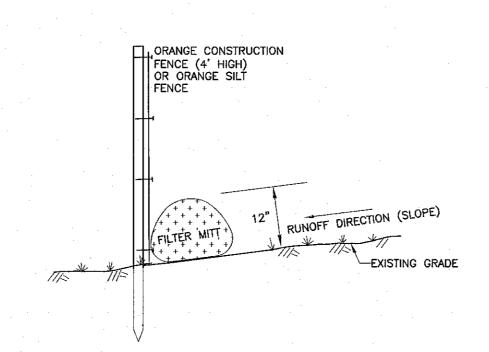
- I. PRIOR TO ANY DISTURBANCE OR ALTERATIONS ON ANY AREA ON THE SITE. THE FILTER MITT SEDIMENT BARRIER SHALL BE INSTALLED IN THE LOCATIONS SHOWN ON THE SITE PLAN.
- 2. BARRIERS SHALL BE CONSTRUCTED AS SHOWN ON THE FILTER MITT DETAIL WITH CONSTRUCTION FENCE DETAIL ABOVE.
- 3. ONCE INSTALLED, THE FILTER MITT SEDIMENT BARRIERS SHALL BE MAINTAINED IN PLACE UNTIL ALL AREAS UPGRADIENT FROM THE BARRIERS HAVE BEEN STABILIZED AS SPECIFIED HEREIN. UPON COMPLETION AND STABILIZATION OF THE PROJECT. THE FILTER MITT AND CONSTRUCTION FENCE SHALL BE REMOVED.
- 4. THE ORANGE CONSTRUCTION FENCE IS INTENDED TO ACT AS A LIMIT OF DISTURBANCE. ANY LAND DOWN GRADIENT FROM THE FENCE ACCIDENTALLY DISTURBED SHALL BE IMMEDIATELY REPAIRED AND RESTORED TO ORIGINAL CONDITION.
- 5. EROSION CONTROL MEASURES SHALL BE MONITORED ON A DAILY BASIS, OR AS NEEDED, AND BE REINFORCED, REPAIRED, OR REPLACED WHEN NEEDED, PER JUDGEMENT OF THE SITE FOREMAN AND/OR TOWN OF BELLINGHAM REPRESENTATIVE.
- 6. TEMPORARY VEGETATION COVER SHALL BE ESTABLISHED ON ALL DISTURBED AREAS WHERE CONSTRUCTION ACTIVITIES TEMPORARILY CEASE FOR AT LEAST 30 DAYS. AREAS SHALL BE STABILIZED WITH TEMPORARY SEED. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A VEGETATIVE COVER, DISTURBED AREAS SHALL BE MULCHED AND THEN SEEDED WHEN WEATHER CONDITIONS ALLOW.
- 7. THE FIRST ONE—HUNDRED FIFTY (100) FEET OF THE PROPOSED ENTRANCE AT PROSPECT STREET SHALL HAVE A CONSTRUCTION ENTRANCE PAD(SEE DETAIL).
- 8. WATER SPRAYING SHALL BE UTILIZED ON ALL DISTURBED AREAS DURING DRY WEATHER TO PREVENT DUST. A WATER TRUCK SHALL BE KEPT ON SITE AT ALL TIMES DURING THE DURING THE SUMMER MONTHS OF CONSTRUCTION.
- 9. FOLLOWING CONSTRUCTION OF THE CATCH BASIN STRUCTURES, A SILTATION BARRIER SHALL BE SET AROUND THE INLET FOR EACH STRUCTURE TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM. (SEE DETAIL)
- 10. NO SLOPES, EITHER TEMPORARY OR PERMANT SHALL BE STEEPER THAN TWO TO 1 (2:1).
- 11. STREET SWEEPING SHALL BE DONE AS NEEDED BASIS ALONG PROSPECT STREET TO THE LIMITS OF SEDIMENT TRACKING.
- 12. STOCKPILE MATERIAL SHALL BE SECURED AROUND THE PERIMETER WITH EROSION CONTROL BARRIERS.

WITH SEDIMENT TYPE A - FROM ACF ENVIRONMENTAL OR APPPROVED EQUAL

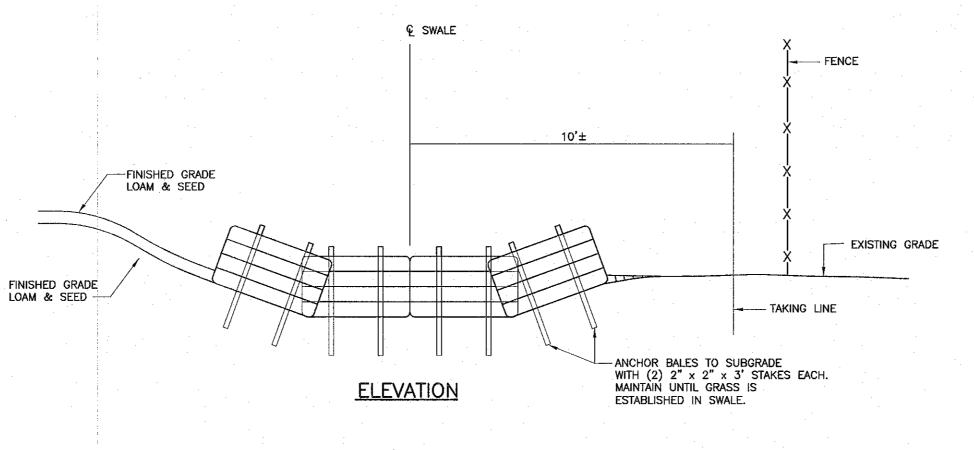
SILT SACK CATCH BASIN INLET NOT TO SCALE

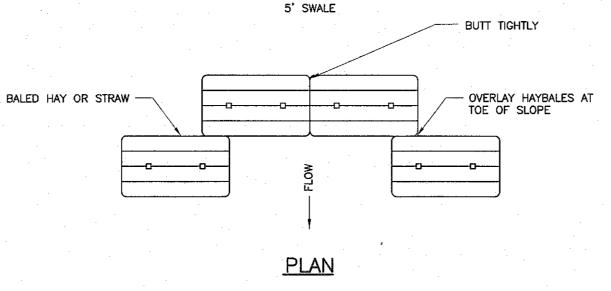
MAINTENANCE:

- 1. THE CONTRACTOR SHALL HAVE ON SITE AN ADEQUATE QUANTITY OF SUPPLEMENTAL HAYBALES AND/OR SILT SOCK TO BE USED FOR CONTROL OF EMERGENCY EROSION PROBLEMS.
- 2. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY.
- 3. THE CONTRACTOR SHALL MONITOR DAILY WEATHER AND PRIOR TO ANY PREDICTED RAIN STORM, THE EROSION BARRIERS SHALL BE INSPECTED AND NEW ONES SUPPLEMENTED IN ANY AREAS OF POSSIBLE CONCENTRATED RUNOFF.
- 4. SEDIMENT CHECK DAMS MAY BE INSTALLED IN AREA OF HIGH CONCENTRATION OF SURFACE RUNOFF. (SEE DETAIL)
- 5. ALL EQUIPMENT SHALL BE STORED IN THE DESIGNATED STAGING AREA.
- A MORE DETAILED SEDIMENT AND EROSION CONTROL PLAN WILL BE DEVELOPED AS PART OF THE NPDES STORMWATER POLLUTION PREVENTION PLAN.

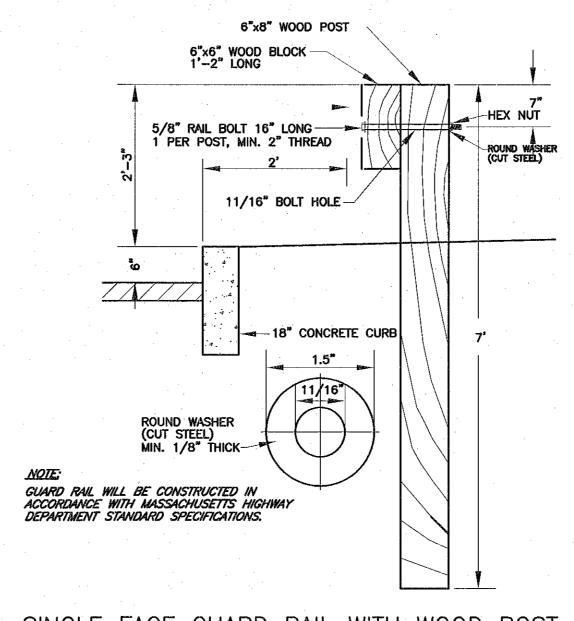


EROSION CONTROL BARRIER FILTER MITT W/ CONSTRUCTION FENCE DETAIL





SEDIMENT CHECK DAM DETAIL



SINGLE FACE GUARD RAIL WITH WOOD POST

APPROVED BY THE BELLINGHAM PLANNING BOARD:

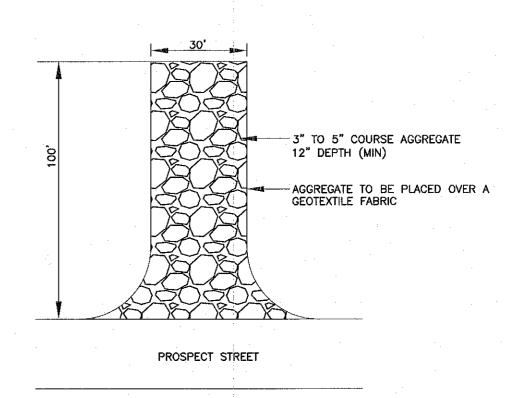
THIS IS TO CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE BELLINGHAM PLANNING BOARD APPROVAL OF THIS PLAN WAS FILED WITHIN THE 20

TOWN CLERK

DATE APPROVED:

DAY APPEAL PERIOD.

APPROVAL SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT



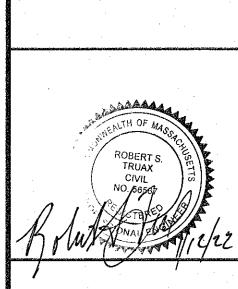
STABILIZED CONSTRUCTION ENTRANCE PAD DETAIL NOT TO SCALE

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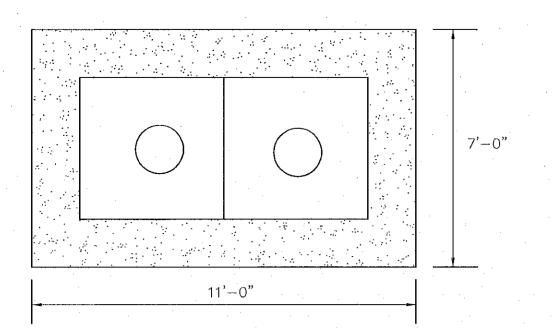
JOB No. DEC. 17, 202 1"=60' SCALE: 14 of 25

PLAN#:

EROSION CONTROL PLAN



27,541



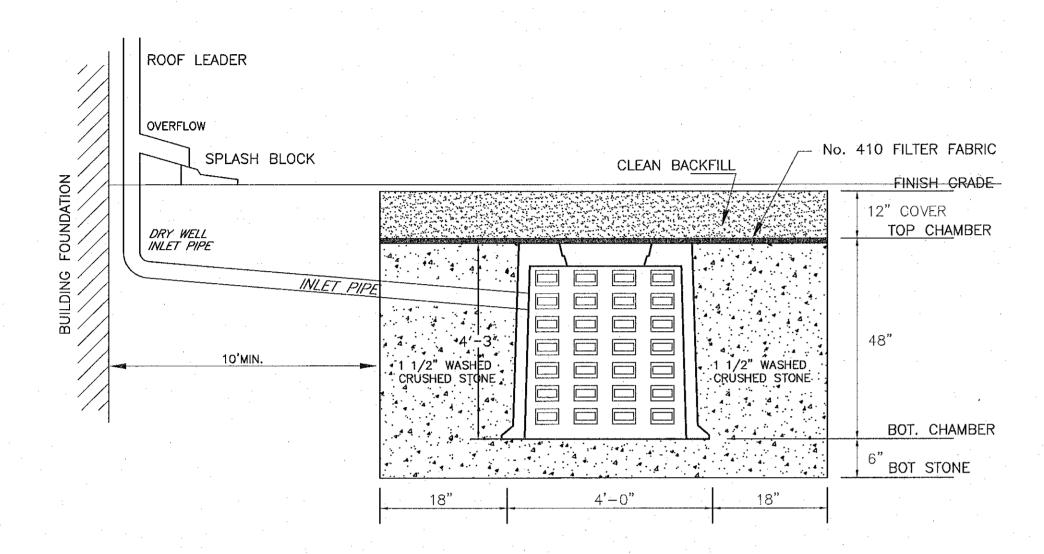
2 - 4X4X4 GALLEY'S W/STONE

1. ALL ROOF RUNOFF SHALL BE DIRECTED

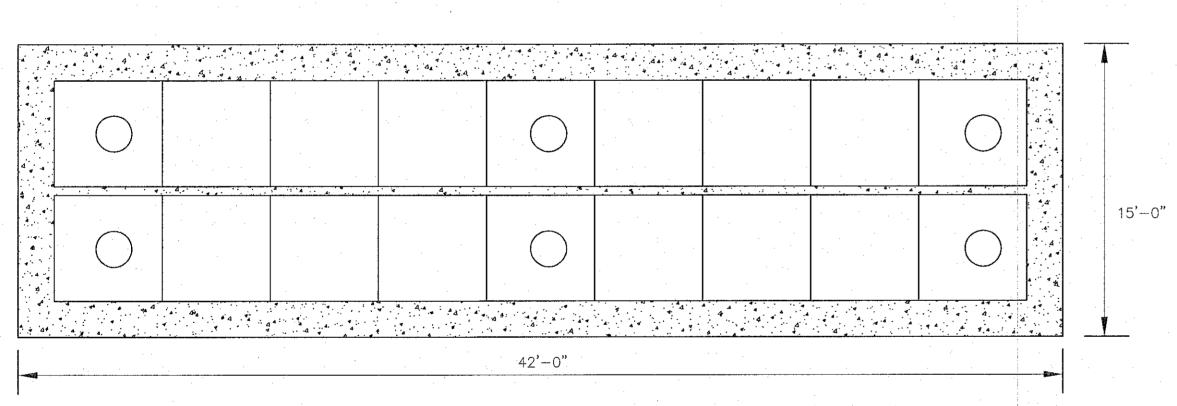
TO A RECHARGE SYSTEM. (SEE PLAN) 2. INSTALL TWO SYSTEMS PER DWELLING. EACH SYSTEM TO CAPTURE APPROXIMATELY 1/2 THE ROOF AREA.

- 1. CONCRETE: 4.000 PSI MINIMUM AFTER 28 DAYS.
- 2. DESIGNED FOR H-20 LOADING.
- 3. GALLEYS TO BE PLACED AGAINST ONE ANOTHER AS INDICATED ON THE GRADING PLAN ON A STONE BASE, WITH 18" OF STONE ALL AROUND.
- 4. STONE SHALL MEET SECTION M2.01.2 OF THE MHD SPECIFICATIONS.

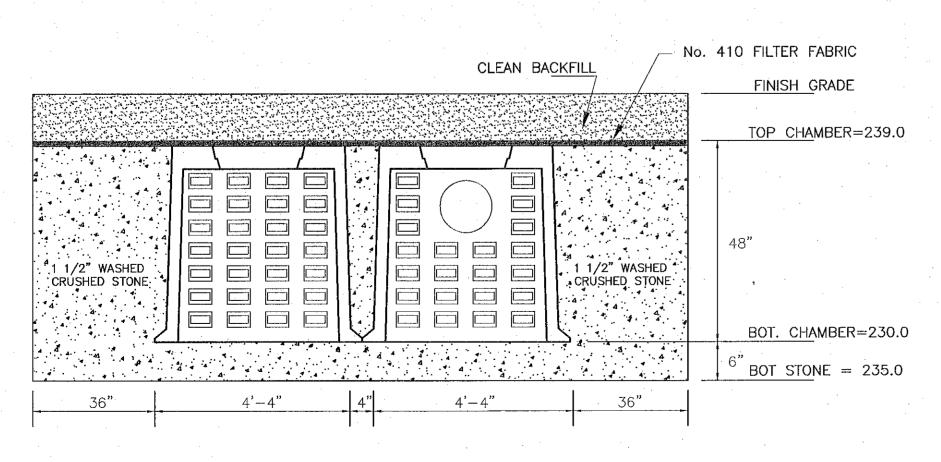
TWO RECHARGE SYSTME PER DWELLING



ROOF RECHARGE SYSTEM DETAIL



2 ROWS 9 GALLEY'S PER ROW TOTAL 18 4x4x4 GALLEY'S



STORWATER RECHARGE SYSTEM #5

- 1. CONCRETE: 4,000 PSI MINIMUM AFTER 28 DAYS.
- 2. DESIGNED FOR H-20 LOADING.
- 3. GALLEYS TO BE PLACED AGAINST ONE ANOTHER AS INDICATED ON THE GRADING PLAN ON A STONE BASE, WITH 36" OF STONE ALL AROUND.
- 4. STONE SHALL MEET SECTION M2.01.2 OF THE

MHD SPECIFICATIONS

NOTES

1. All construction shall conform to the Tonw of Bellingham Planning Board Rules and Regulations dnd Department of Public Works standards and

5. Sidewalk ramps must meet current applicable ADA / AAB standards.



NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION. DIGSAFE IS TO BE NOTIFIED 72 WORKING HOURS IN ADVANCE OF CONSTRUCTION. DIGSAFE 1-888-344-7233

PLAN VIEW B-B

N.T.S.

X

N.T.S.

3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH

4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS

5. STRUCTURE SHALL MEET AASHTO HS20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER

INSTALLATION NOTES

1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.

2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE

6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY

2. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.

GENERAL NOTES

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

DURING MAINTENANCE CLEANING.

STRUCTURE (LIFTING CLUTCHES PROVIDED).

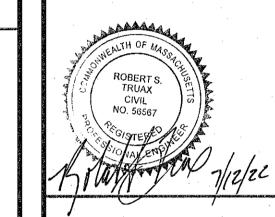
CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech-cpi.com

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TOWN CLERK DATE

> APPROVAL SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY . RECORDED HEREWITH.



ELEVATION A-A

N.T.S.

3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED. WATER QUALITY UNIT DETAIL DMH#4 CDS1515-3-C CDS INLINE STANDARD DETAIL

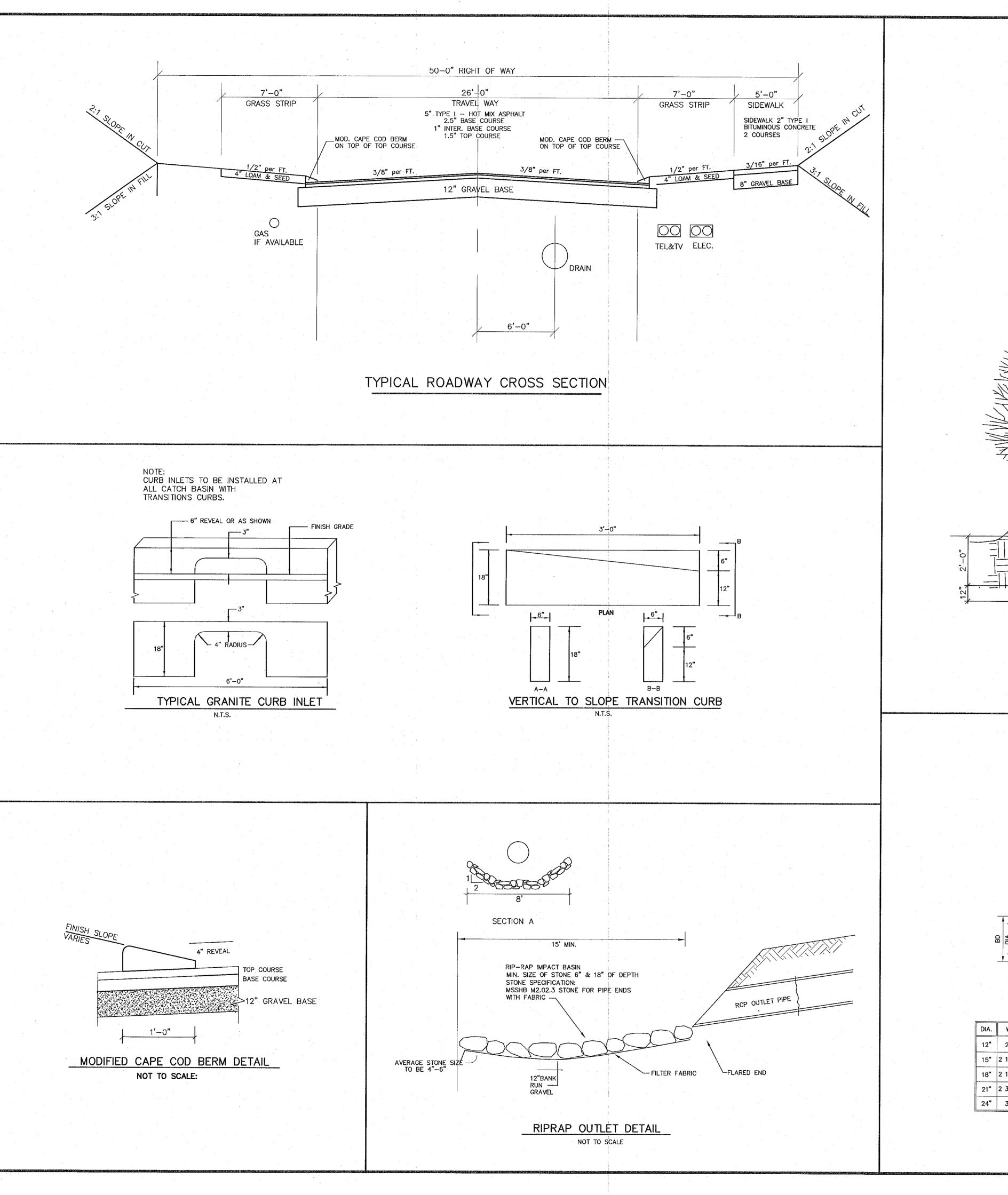
NOT TO SCALE

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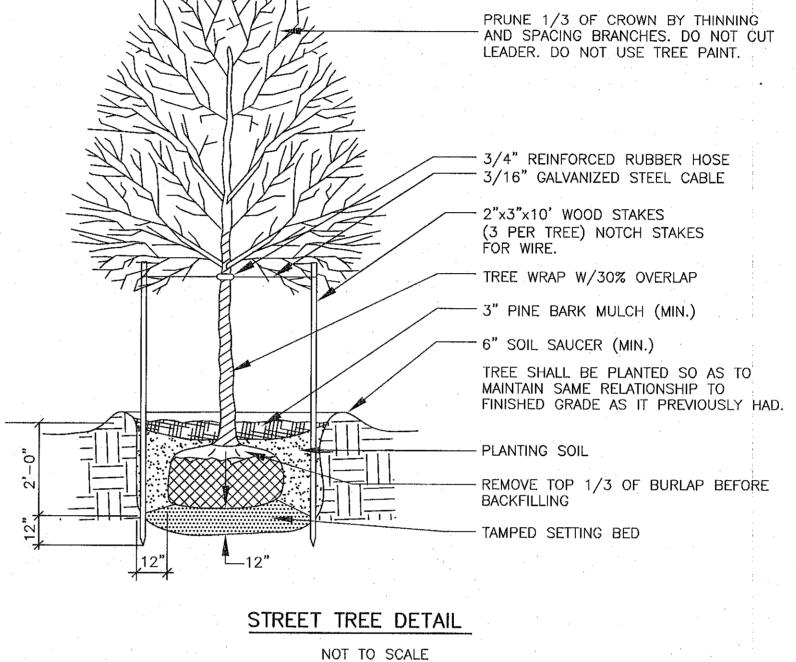
> JOB No. 16,590 DEC. 17, 202 1"=60' SCALE: 15 of 25 27,541

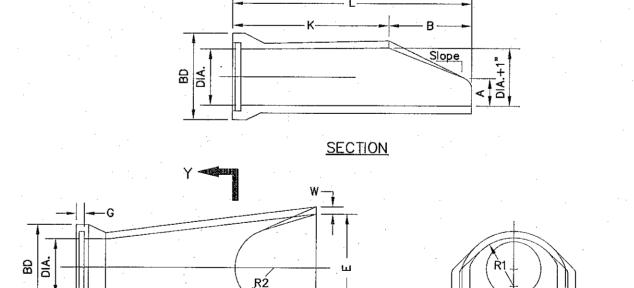
PLAN #:

DETAILS



1. STREET TREES SHALL BE PLANTED ON BOTH SIDES OF THE ROADWAY, SPACED APPROXIMATELY 40 FT. APART AND APPROXIMATELY 10 FT FROM SIDWALK OR ROADWAY. 2. STREET TREES SHALL BE MINIMUM OF 2 1/2" CALIPER 4 FT. ABOVE THE GROUND.





SECTION Y-Y

DIA.	W	A	В	С	D .	E	BD	K	L	Р	DIA. +1"	R1	R2	s	G	Slope
12"	2"	4"	2'-0"	4'-0 7/8"	6'-1 3/8"	2'-0"	20"	4'-8 1/8"	6'-6 1/8"	19 15/16"	13"	10 1/8"	9"	4"	2 1/2*	3:1
15"	2 1/4"	6"	2'-3"	3'-10"	6'-1 1/2"	2'-6"	24"	4'-3 11/16"	6'-6 11/16"	24 5/16*	16"	12 1/2"	11"	4"	2 1/2*	3:1
18"	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	28"	4'-3 7/8"	6'-6 7/8"	29"	19"	15 1/2"	12"	4"	2 3/4"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	32"	3'-8 5/16"	6'-7 5/16"	31 5/8"	22"	16 1/8"	13"	4"	2 3/4"	3:1
24"	3"	9 1/2"	3'-7 1/2"	2'-6"	6'1"	4'-0"	36"	3'-0 1/2"	6'-8"	33 3/16"	25"	16 13/16"	14"	4"	3"	3:1

<u>PLAN</u>

R.C.P. FLARED END SECTION DETAIL

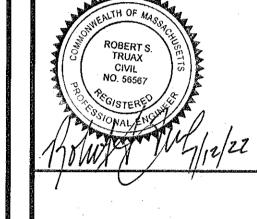
NOT TO SCALE

APPROVED BY THE BELLINGHAM PLANNING BOARD: DATE APPROVED: _

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TOWN CLERK

APPROVAL SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY DATED _____ AND TO BE RECORDED HEREWITH.



NOTES

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5. Sidewalk ramps must meet current applicable ADA / AAB standards.



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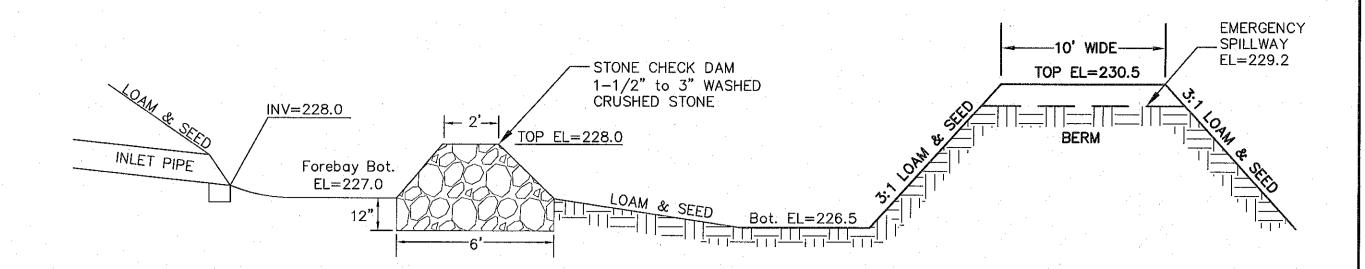
JOB No. 16,590 DATE: DEC. 17, 202 1"=60' SCALE: 16 of 25 SHEET:

PLAN #:

27,541

DETAILS

DEFINITIVE SUBDIVI PROSPECT HILL ES BELLINGHAM, MASSA(



BASIN BUTTOM SPECIFICATIONS

(MIN 6" SOIL BASE) THE SOIL MIX FOR THE BOTTOM OF

THE RETENTION BASIN SHALL BE A

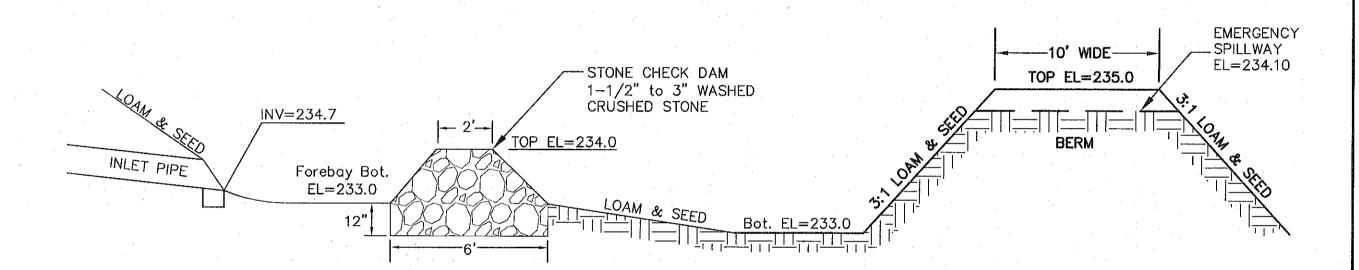
MIXTURE OF SAND, COMPOST AND

TOPSOIL/LOAM. -40% SAND

-20-30% TOPSOIL/LOAM

-30% COMPOST

DRAINAGE RECHARGE BASIN #3 DETAIL NOT TO SCALE



BASIN BUTTOM SPECIFICATIONS (MIN 6" SOIL BASE)

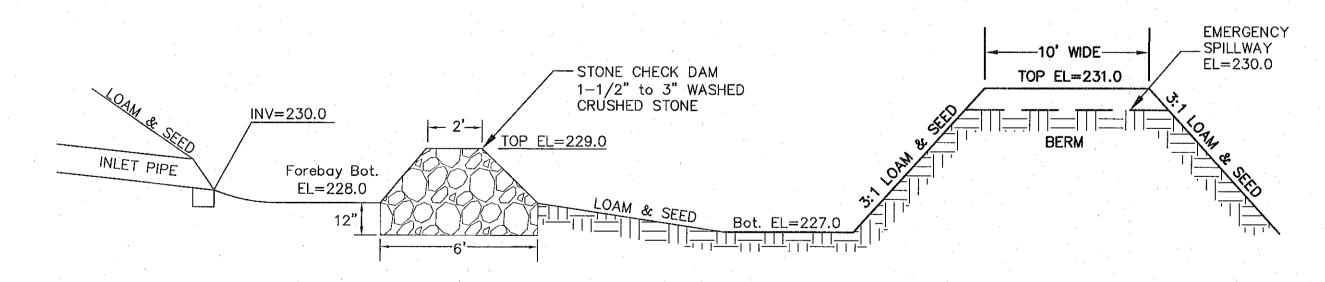
THE SOIL MIX FOR THE BOTTOM OF THE RETENTION BASIN SHALL BE A MIXTURE OF SAND, COMPOST AND

TOPSOIL/LOAM. -40% SAND

-20-30% TOPSOIL/LOAM

-30% COMPOST

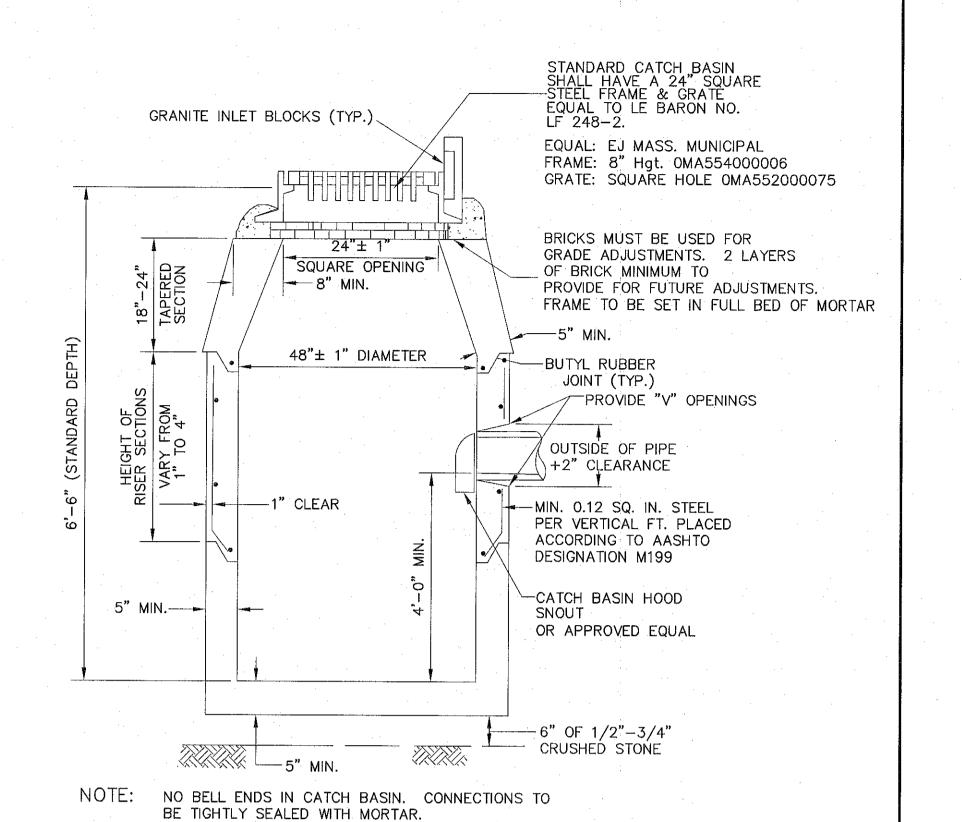
DRAINAGE RECHARGE BASIN #2 DETAIL



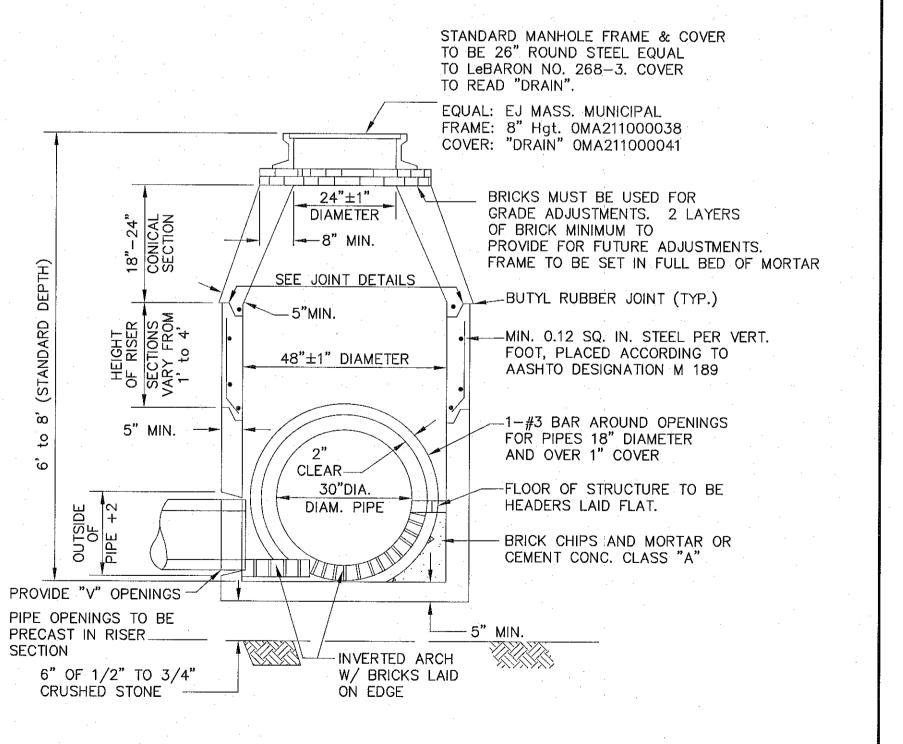
BASIN BUTTOM SPECIFICATIONS (MIN 6" SOIL BASE) THE SOIL MIX FOR THE BOTTOM OF THE RETENTION BASIN SHALL BE A MIXTURE OF SAND, COMPOST AND TOPSOIL/LOAM. -40% SAND

-20-30% TOPSOIL/LOAM -30% COMPOST

DRAINAGE RECHARGE BASIN #1 DETAIL NOT TO SCALE



PRECAST CATCH BASIN DETAIL NOT TO SCALE



PRECAST MANHOLE DETAIL NOT TO SCALE

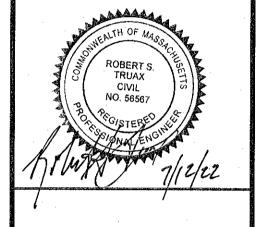
APPROVED BY THE **BELLINGHAM PLANNING BOARD:**

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TOWN CLERK

DATE

APPROVAL SUBJECT TO A COVENANT CONDITIONS SET FORTH IN A COVENANT EXECUTED BY . __. AND TO BE RECORDED HEREWITH.



DAT 03/02/. 07/12/:

N PLAN FATES HUSETT SUBDIVIOI T HILL EST , MASSACF DEFINITIVE PROSPEC ILINGHAM,

REET DEVELO P.O. BOX WOOD, MASS

ADA / AAB standards.

NOTES

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1. All construction shall conform to the Tonw of

Bellingham Planning Board Rules and Regulations dnd Department of Public Works standards and

5. Sidewalk ramps must meet current applicable

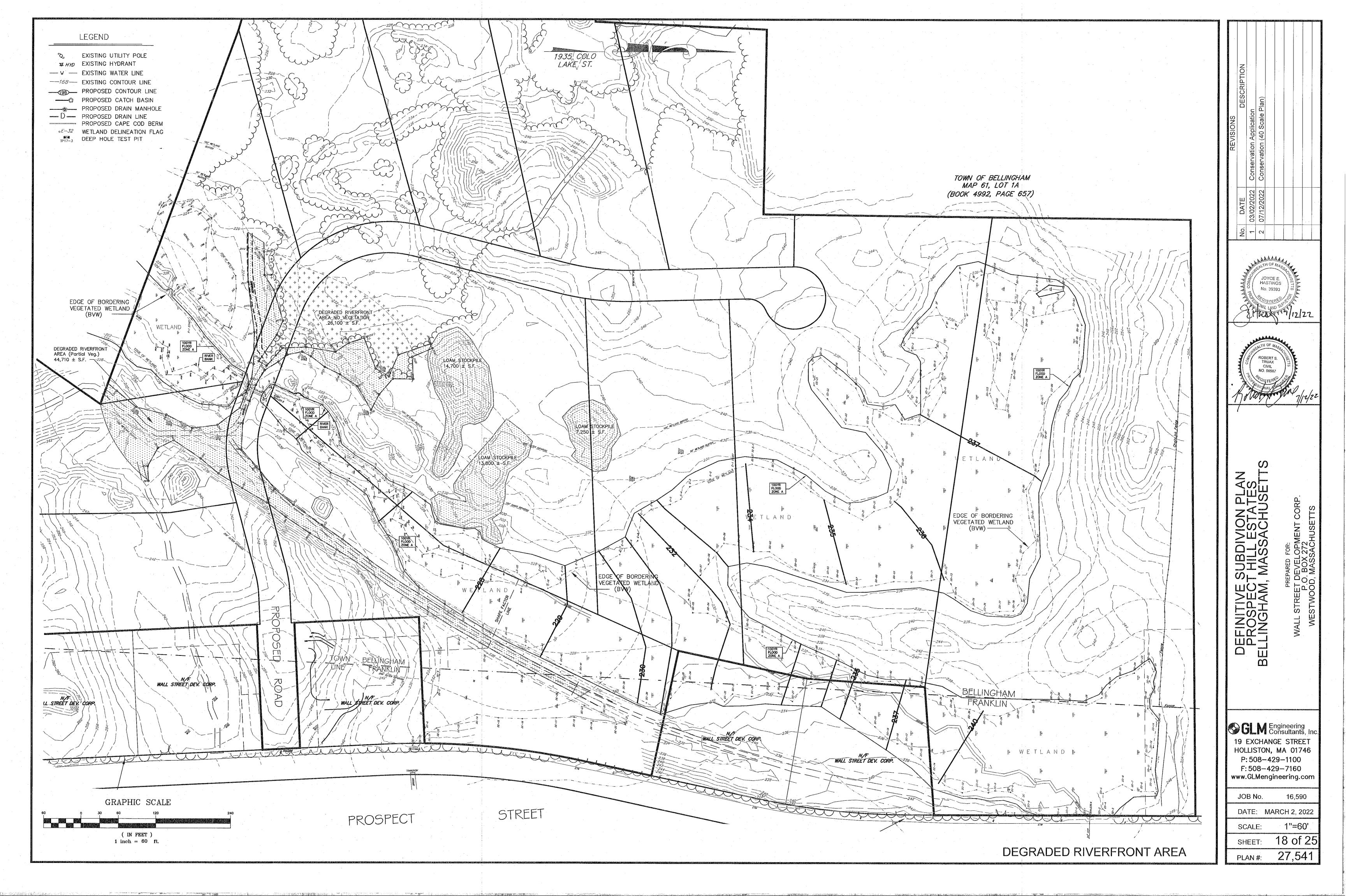
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JOB No. 16,590 DEC. 17, 202 DATE: 1"=60' 17 of 25 SHEET:

PLAN #:

27,541

DETAILS



DEWATERING:
PUMPING AND DEWATERING THE EXCAVATION AREAS SHALL BE
DONE IN A MANNER WHICH WILL NOT DISCHARGE ANY SILT
SEDIMENT INTO A RESOURCE AREA. DISCHARGES FROM A
DEWATERING CONSTRUCTION PROCEDURE WILL BE FILTERED
THROUGH A SILTATION BASIN AND/OR A SILT SOCK, CONSTRUCTED
UPLAND FROM THE WORK SITE. THE SILTATION BASIN SHALL BE A
DEPRESSION SURROUNDED BY A HAYBALE DIKE OR SILT FENCE.
OVERFLOW FROM THE SILTATION BASIN SHALL BE PLANNED TO BE
LOCATED OVER A THICKLY AND NATURALLY MULCHED UPLAND
AREA. ALL BASINS SHALL BE LOCATED AT LEAST 100 FEET
UPSLOPE FROM ANY RESOURCE AREA.

NOTES:

1. CULVERT DESIGN SPECIFICATIONS:

- ACI 318 & AASHTO

MATERIAL PROPERTIES:

- Concrete - 5000 psi @ 28 days

- Steel Reinforcement

Rebar ASTM A-615 Grade 60

Welded Wire Fabric ASTM A-185 Grade 65

2. INTERLOCKING BLOCK WALL TO BE DESIGNED BY

STRUCTURAL ENGINEER.

MIN. REQUIRED O.R. = 0.82 FEET

O.R. = (HEIGHT X WIDTH)/LENGTH

RETAINING WALL

EXISTING GRADE EL=221.50±

F.G. THRU CULVERT = 221.5

SPANS CHANNEL WIDTH:

1.2 X BANKFULL WIDTH

1.2 X 4 FT = 4.8 FT MIN,

8 FT PROVIDED QLK,

OPENNESS RATIO (O.R.):

REINFORCE CONCRETE

BOX QULVERT

7'-0"

LOW FLOW CHANNEL

INV EL=221.5±

36" WIDE X 8" DEPTH)

AVG. HEIGHT = 5 FT
WIDTH = 8 FT
LENGTH = 44 FT

O.R. = (8 X 5)/44 = 0.91 FT O.K.

A' GRASS
PLOT
PAVED DRIVEWAY

PAVED SURFACE

INTERLOCKING BLOCK

GUARDRAIL

CLEAN FILL

INTERLOCKING BLOCK
RETAINING WALL

CONCRETE BOX CULVERT

INSTALL 12"-18" DEPTH OF
GRAVEL BASE

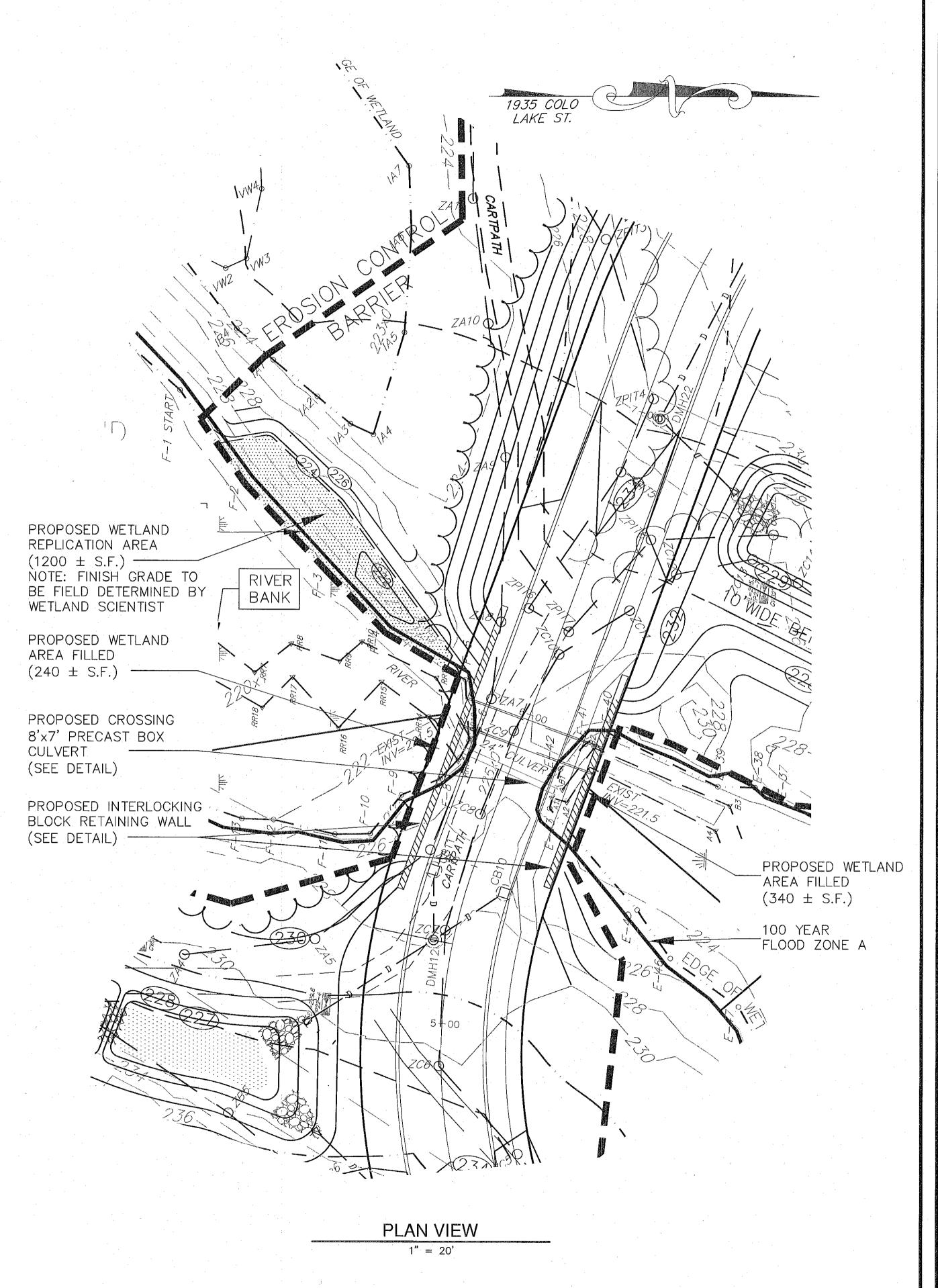
5' SIDEWALK

4' GRASS

GUARDRAIL

WETLAND CROSSING DETAIL

NOT TO SCALE



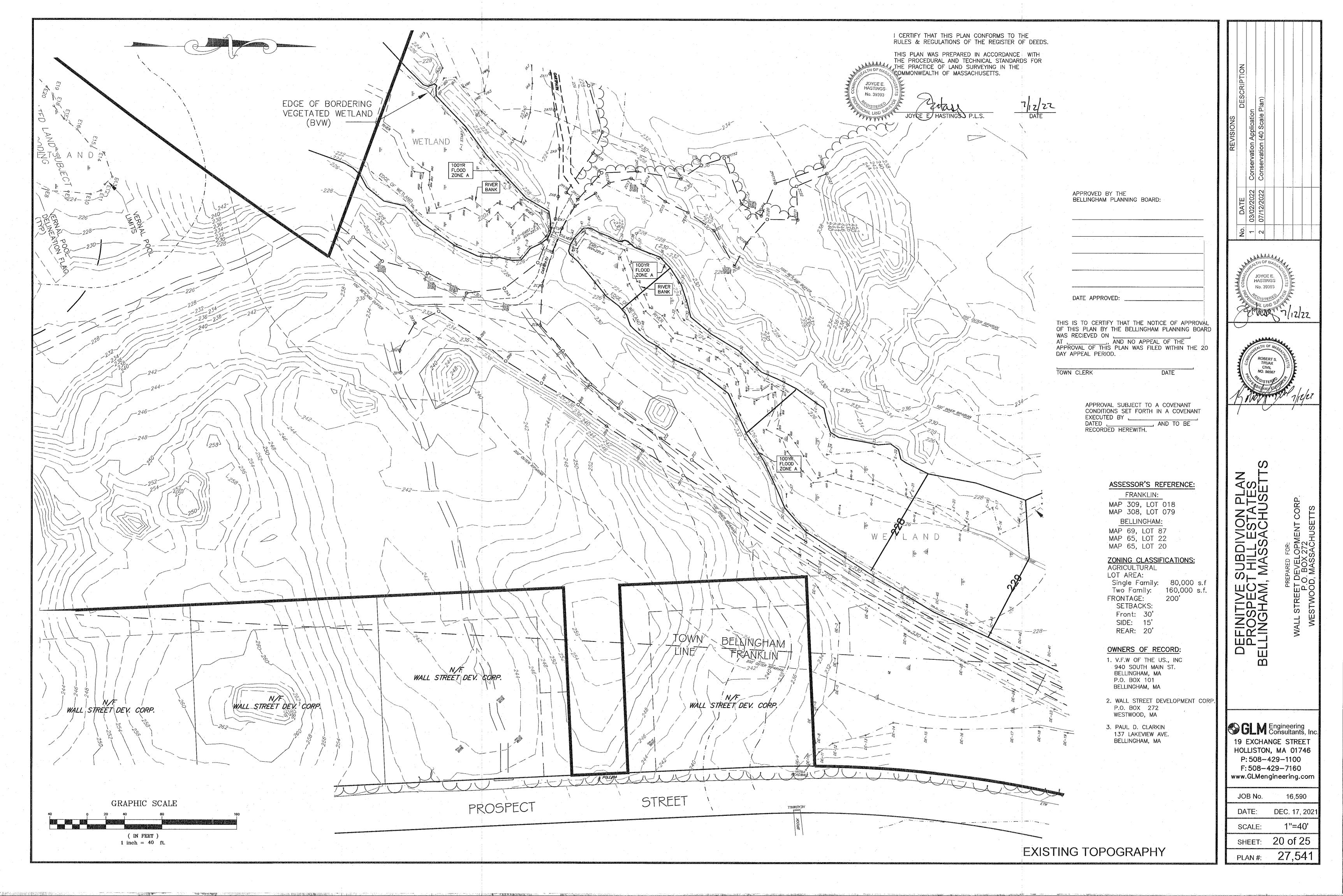
DEFINITIVE SUBDIVION PLAN PROSPECT HILL ESTATES BELLINGHAM, MASSACHUSETT **GDGLM** Engineering Consultants, Inc 19 EXCHANGE STREET HOLLISTON, MA 01746 P: 508-429-1100 F: 508-429-7160 www.GLMengineering.com JOB No. 16,590 DATE: MARCH 2, 2022 1"= 20' SCALE:

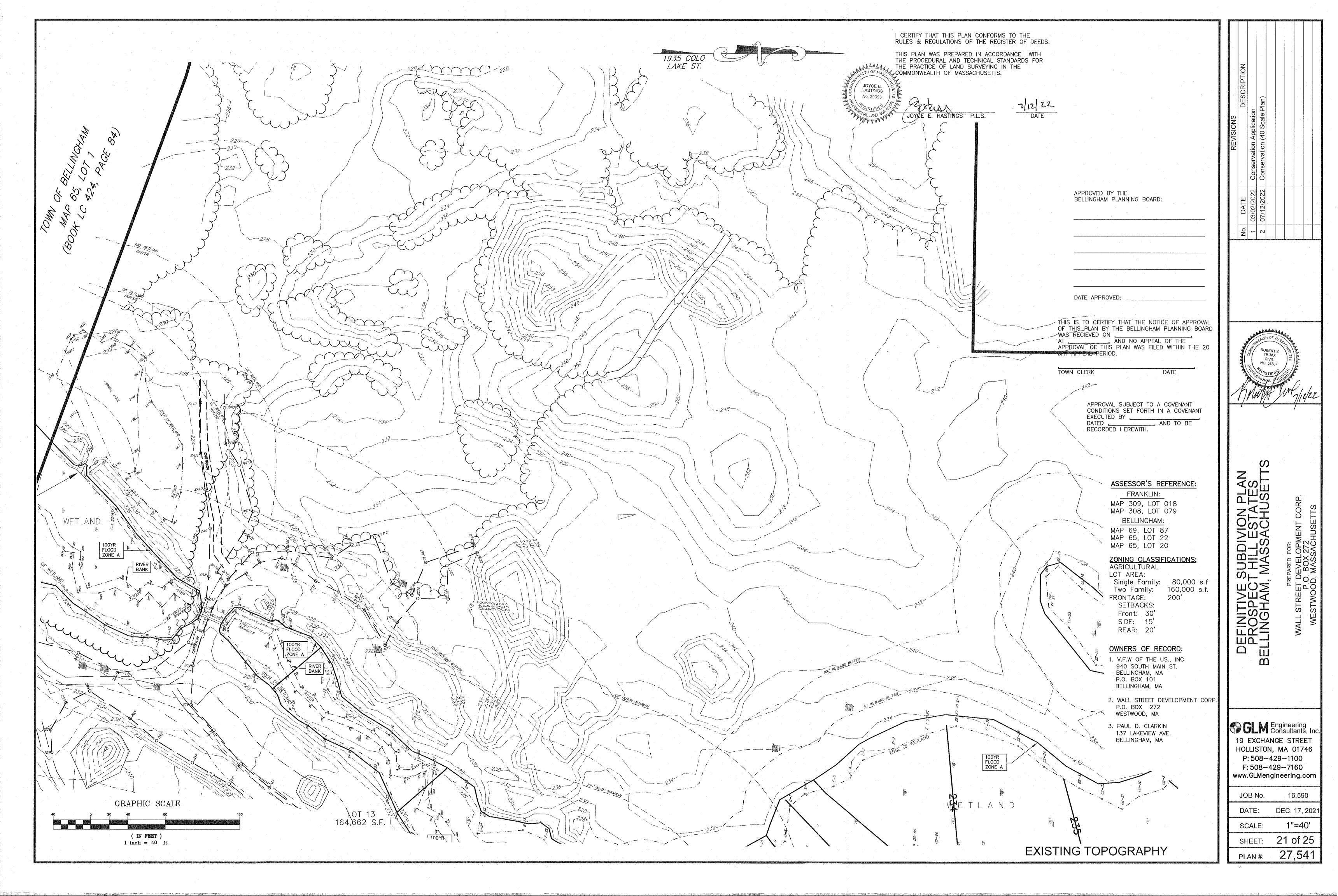
19 of 25

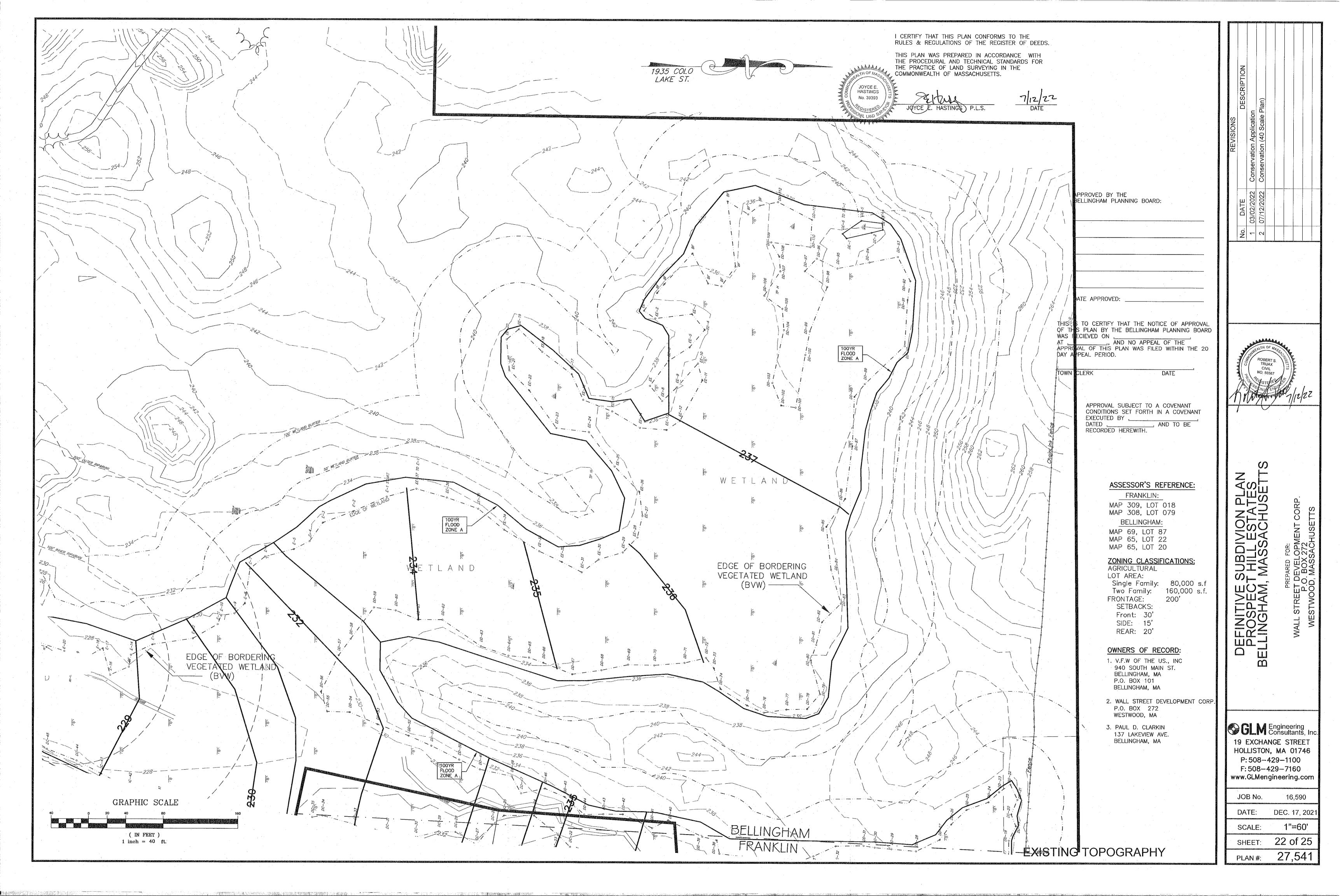
27,541

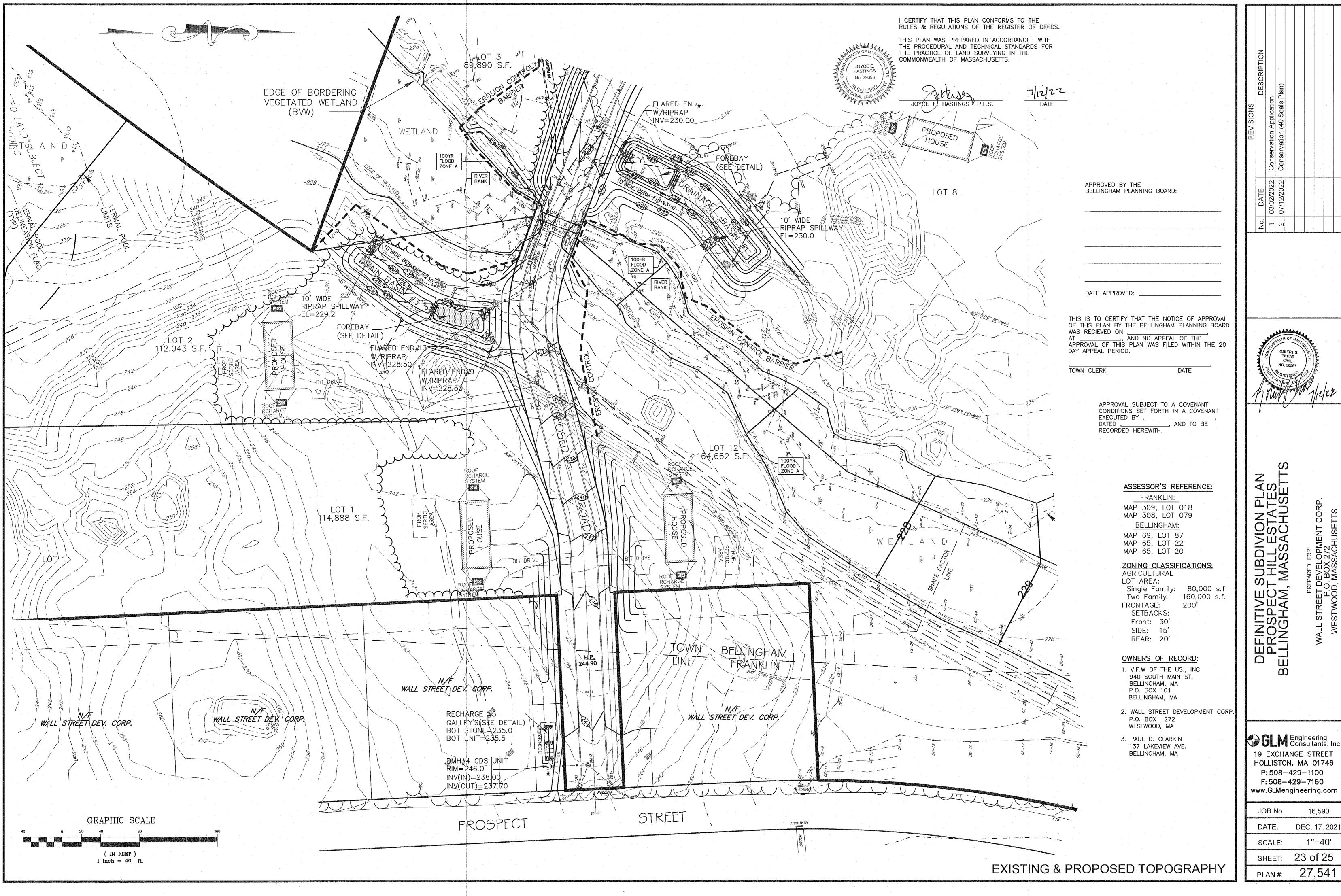
PLAN#:

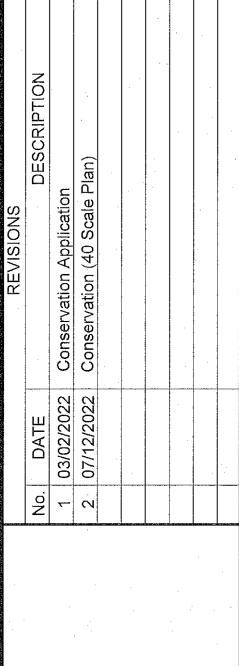
WETLAND REPLICATION PLAN

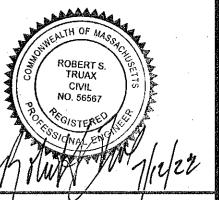












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> 16,590 DEC. 17, 202 1"=40'

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