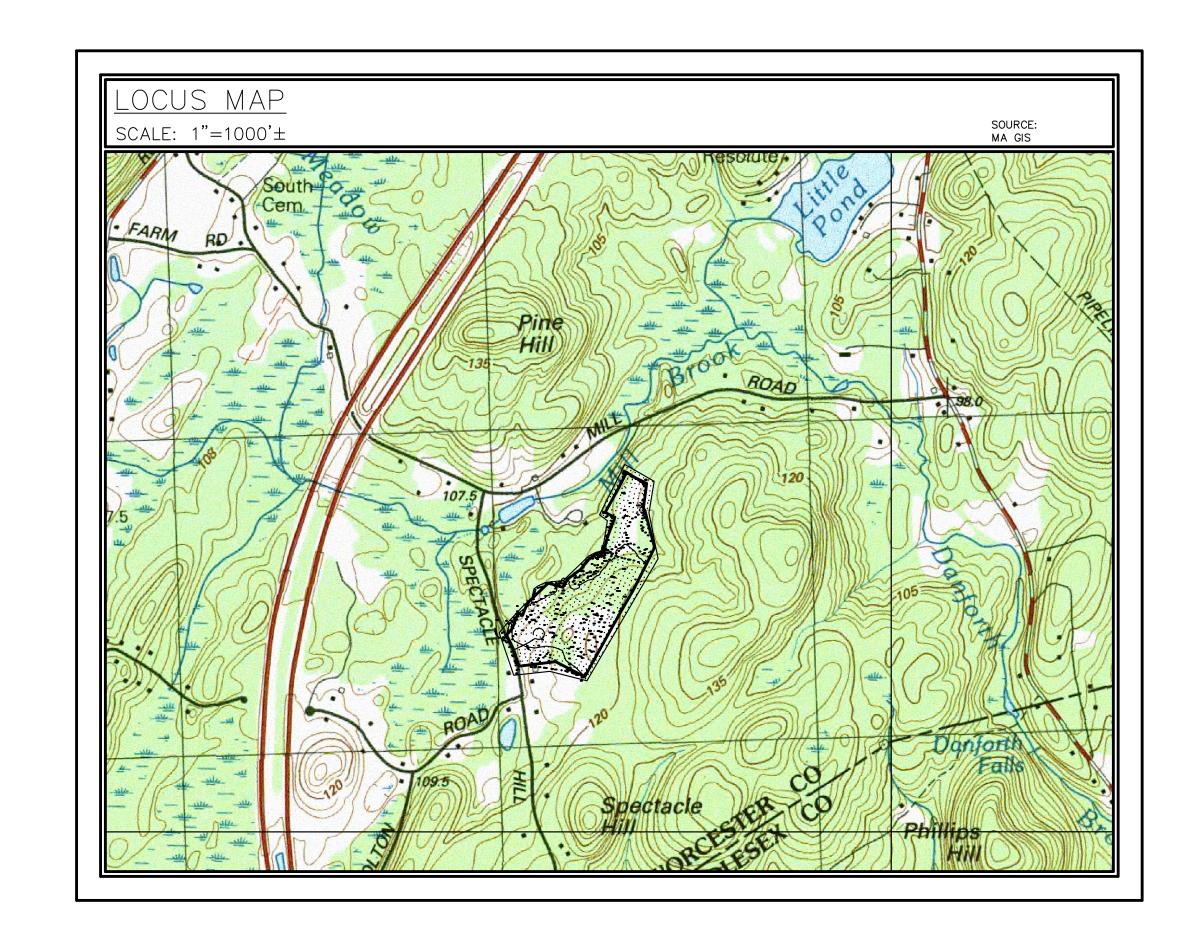
# PROPOSED FARMLAND + OPEN SPACE PLANNED RESIDENTIAL DEVELOPMENT (FOSPRD)

# BOLTON, MASSACHUSETTS

OFF

# SOUTH BOLTON ROAD JULY 2022



APPROVED AS SUBMITTED
APPROVED WITH CONDITIONS
APPROVED WITH REVISIONS

TOWN OF BOLTON PLANNING BOARD

DATE:

PLAN INDEX

DEFINITIVE SUBDIVISION PLAN

INDEX PLAN

EXISTING CONDITIONS PLAN

PROPOSED SITE & GRADING PLAN

PROPOSED ROADWAY PLAN

PROPOSED ROADWAY PROFILE

PROPOSED EROSION CONTROL PLAN

10-11

CONSTRUCTION NOTES

CONSTRUCTION DETAILS

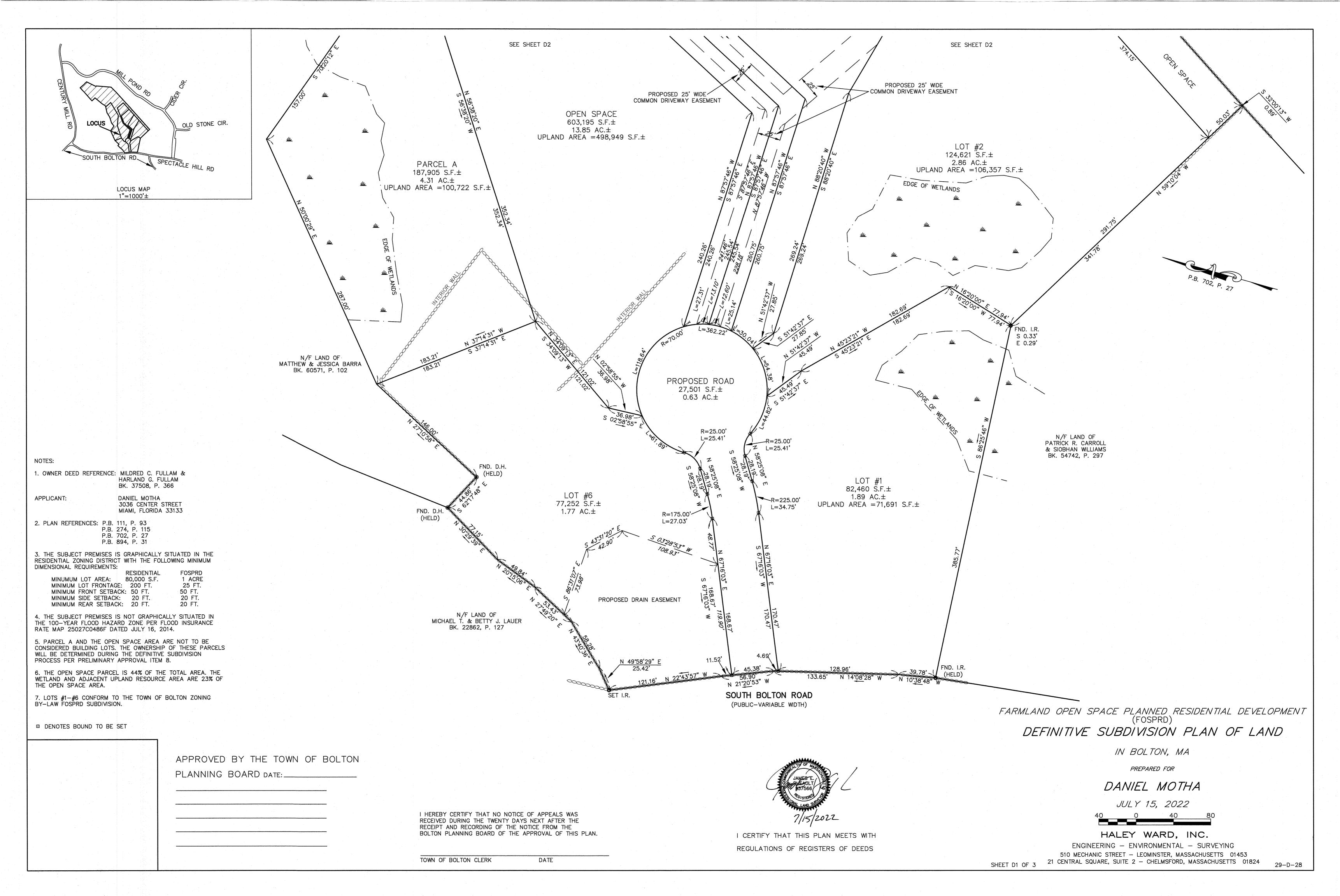
APPLICANT
DANIEL MOTHA
3036 CENTER STREET
MIAMI, FLORIDA 33133
(508) 494-9637

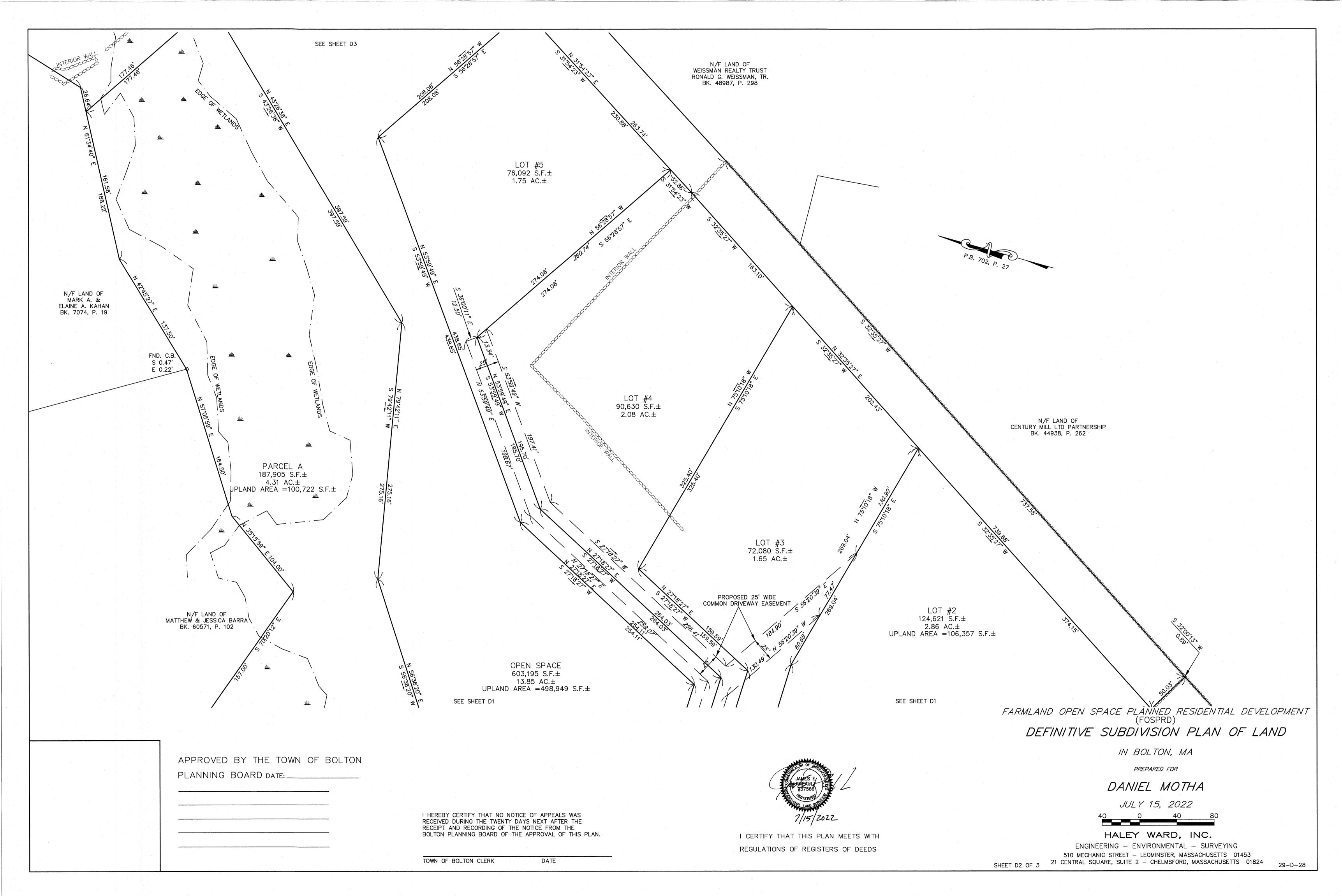
ENGINEER & SURVEYOR HALEY WARD, INC. 510 MECHANIC STREET LEOMINSTER, MA 01453 TEL. (978) 537-5296 FAX (978) 537-1423

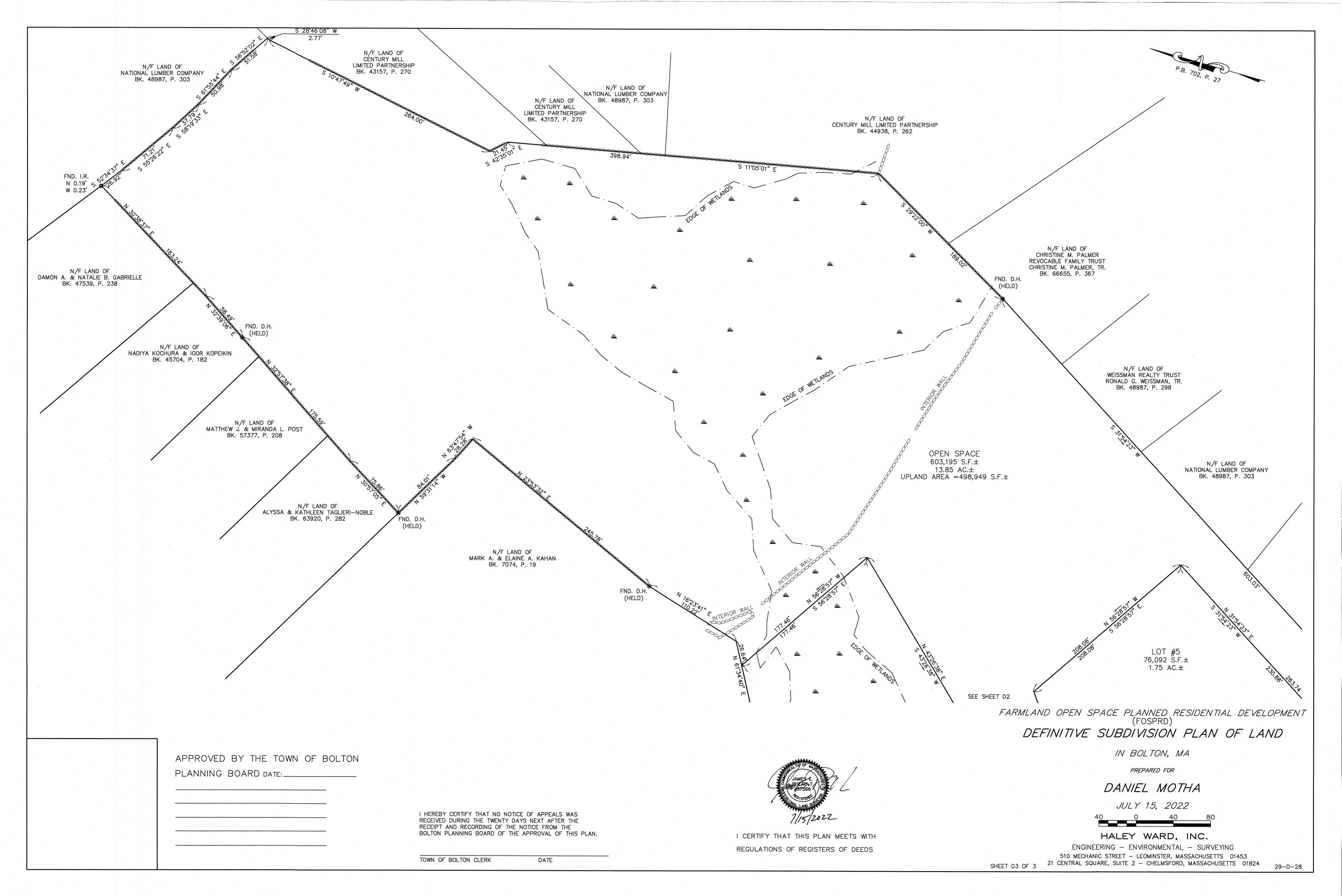
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1	09/08/22	PER DPW COMMENTS
NO.	DATE	DESCRIPTION

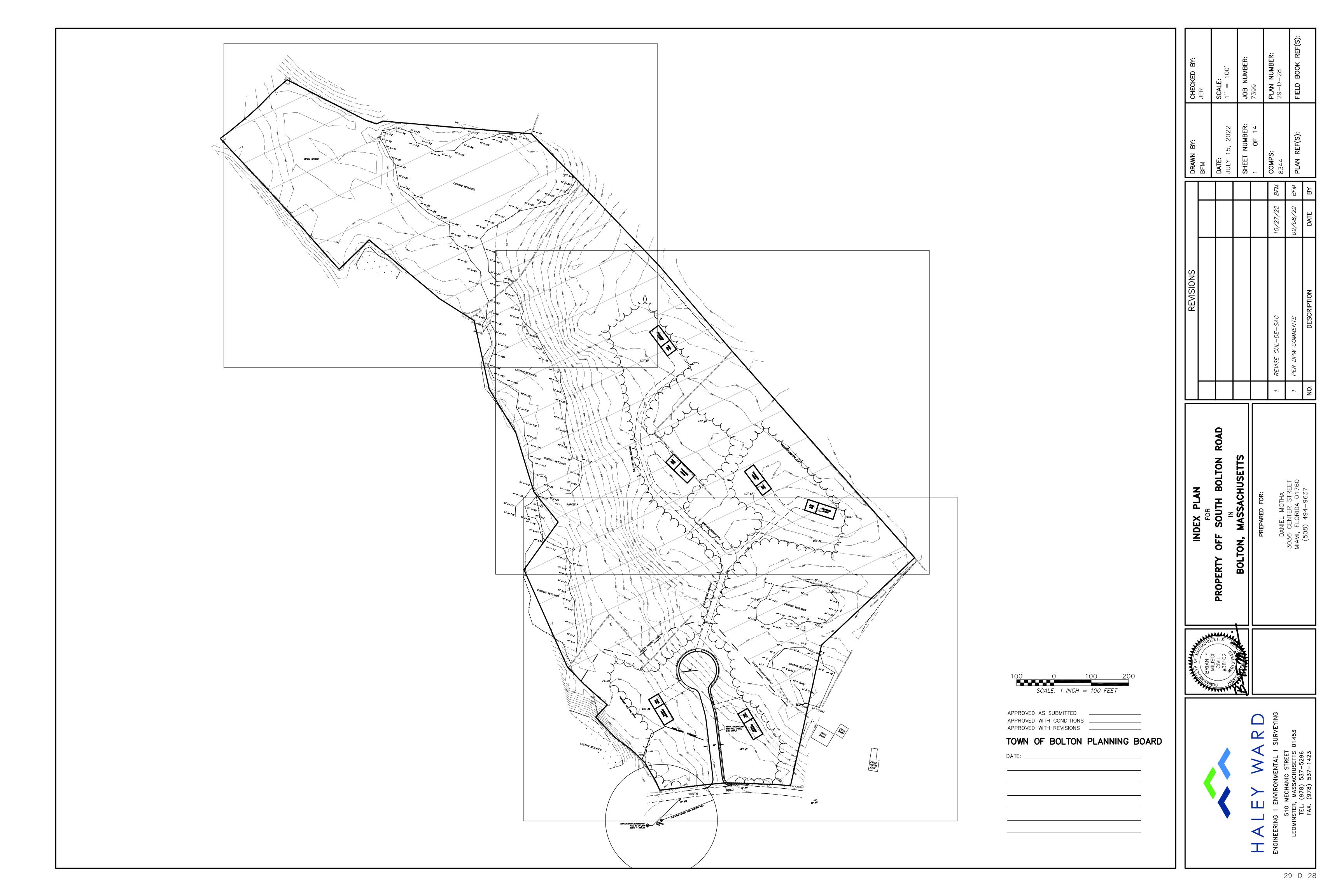
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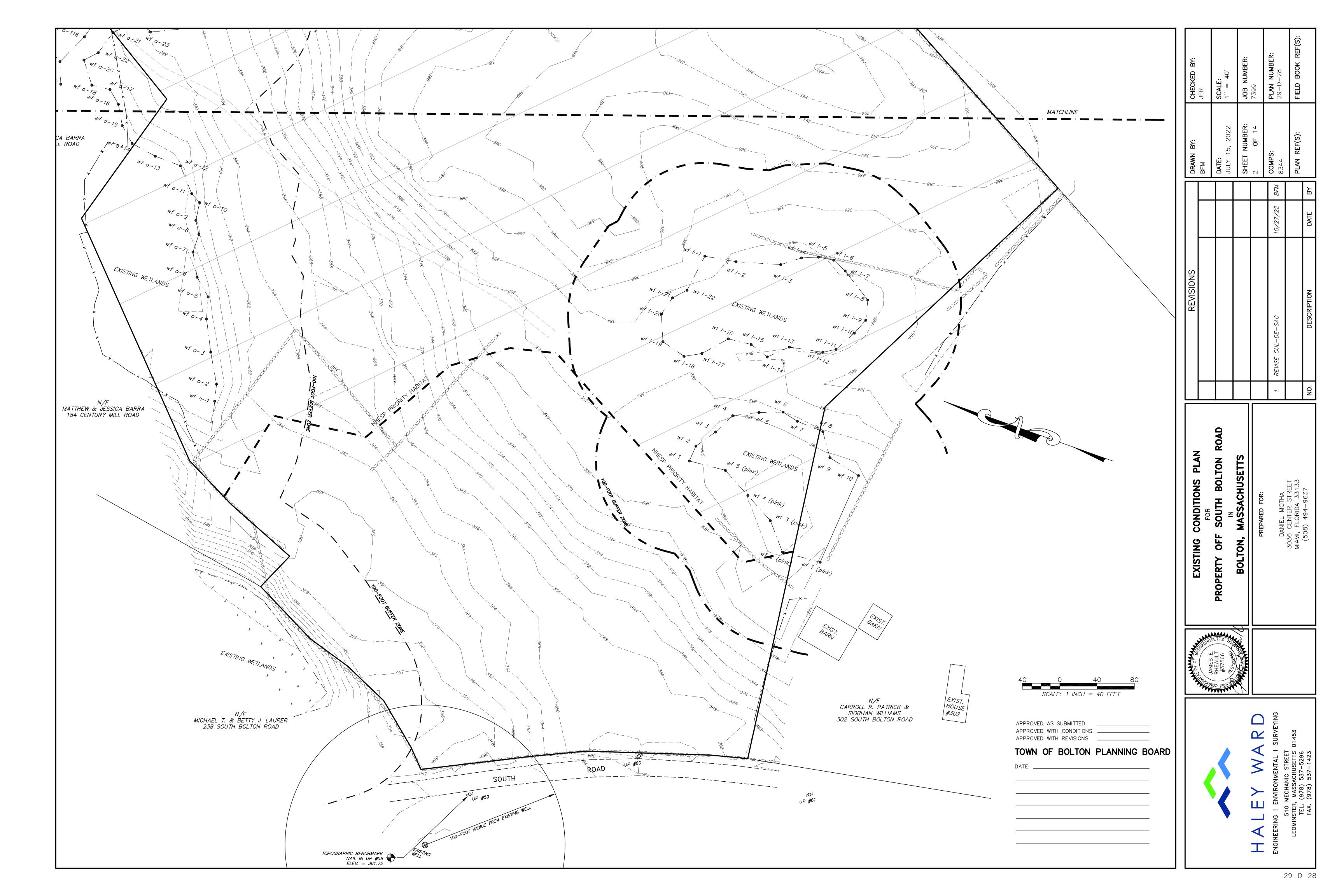
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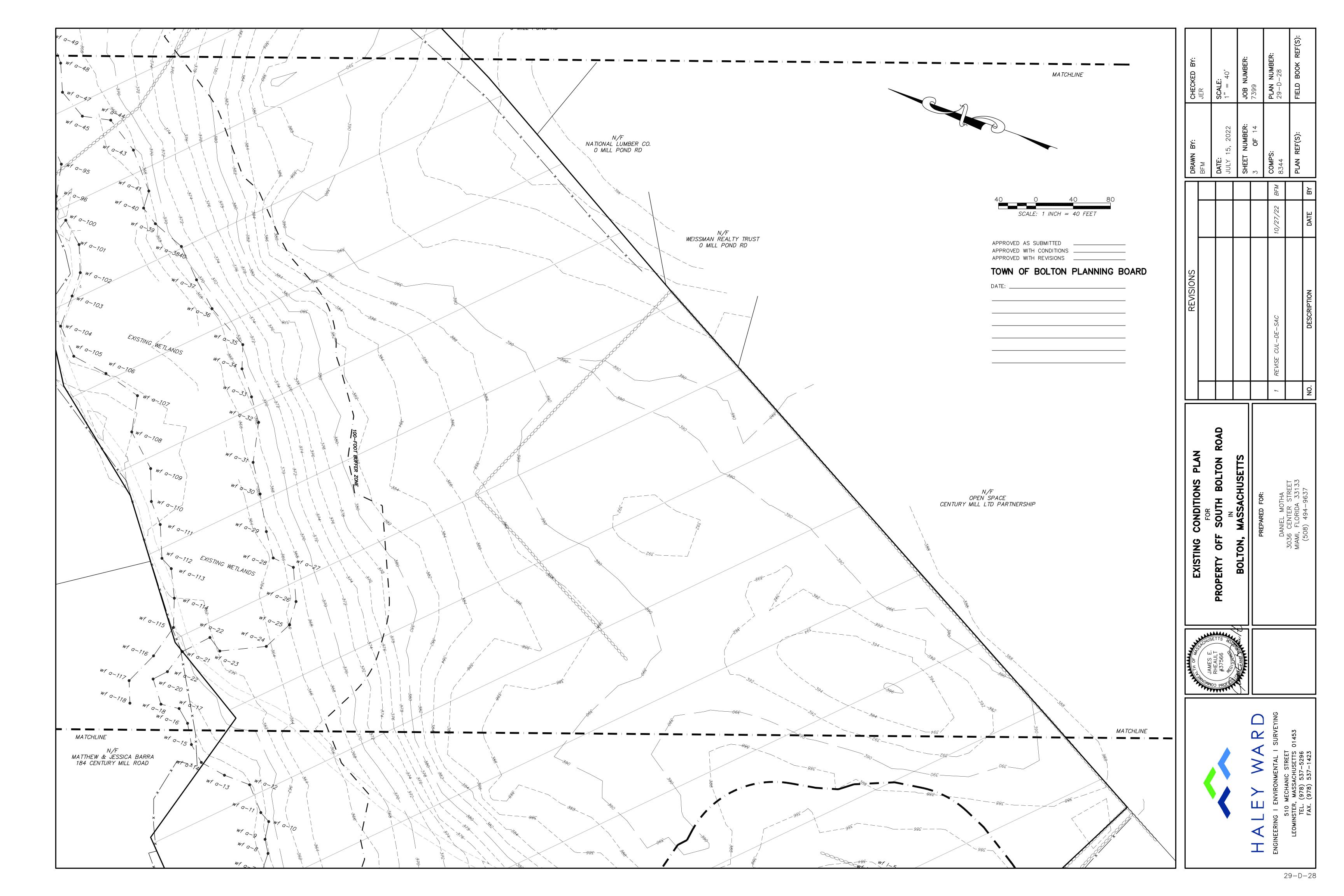


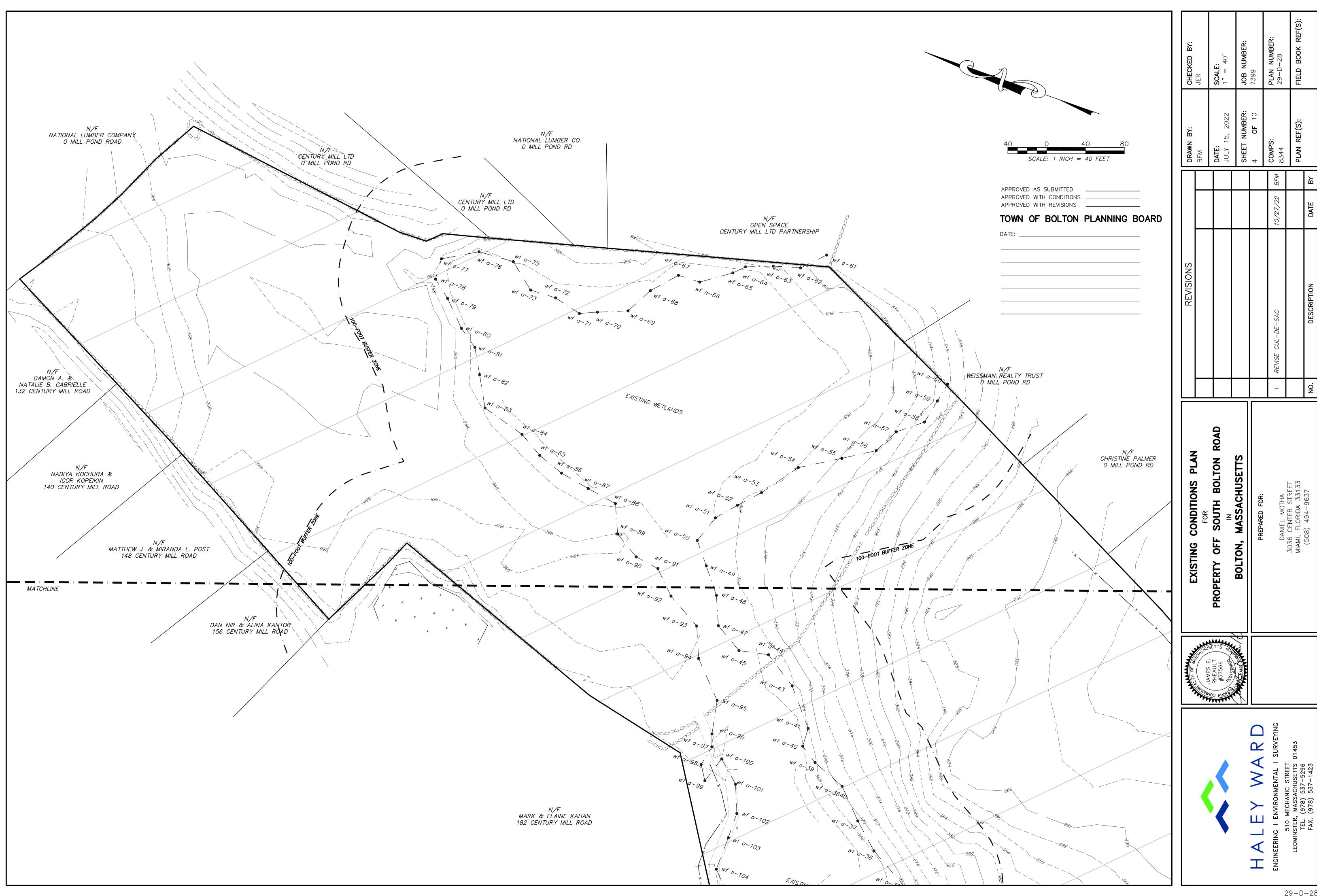


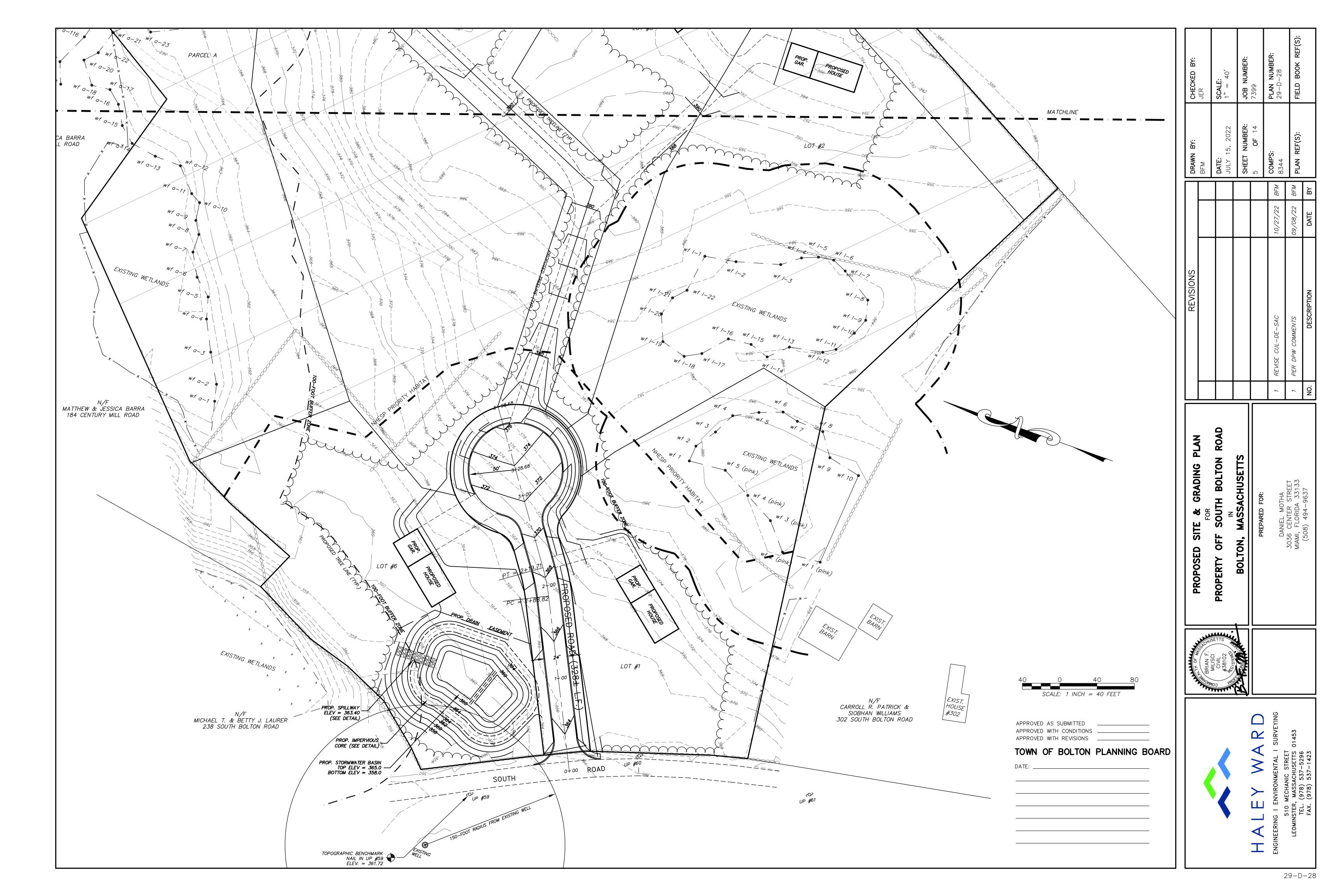


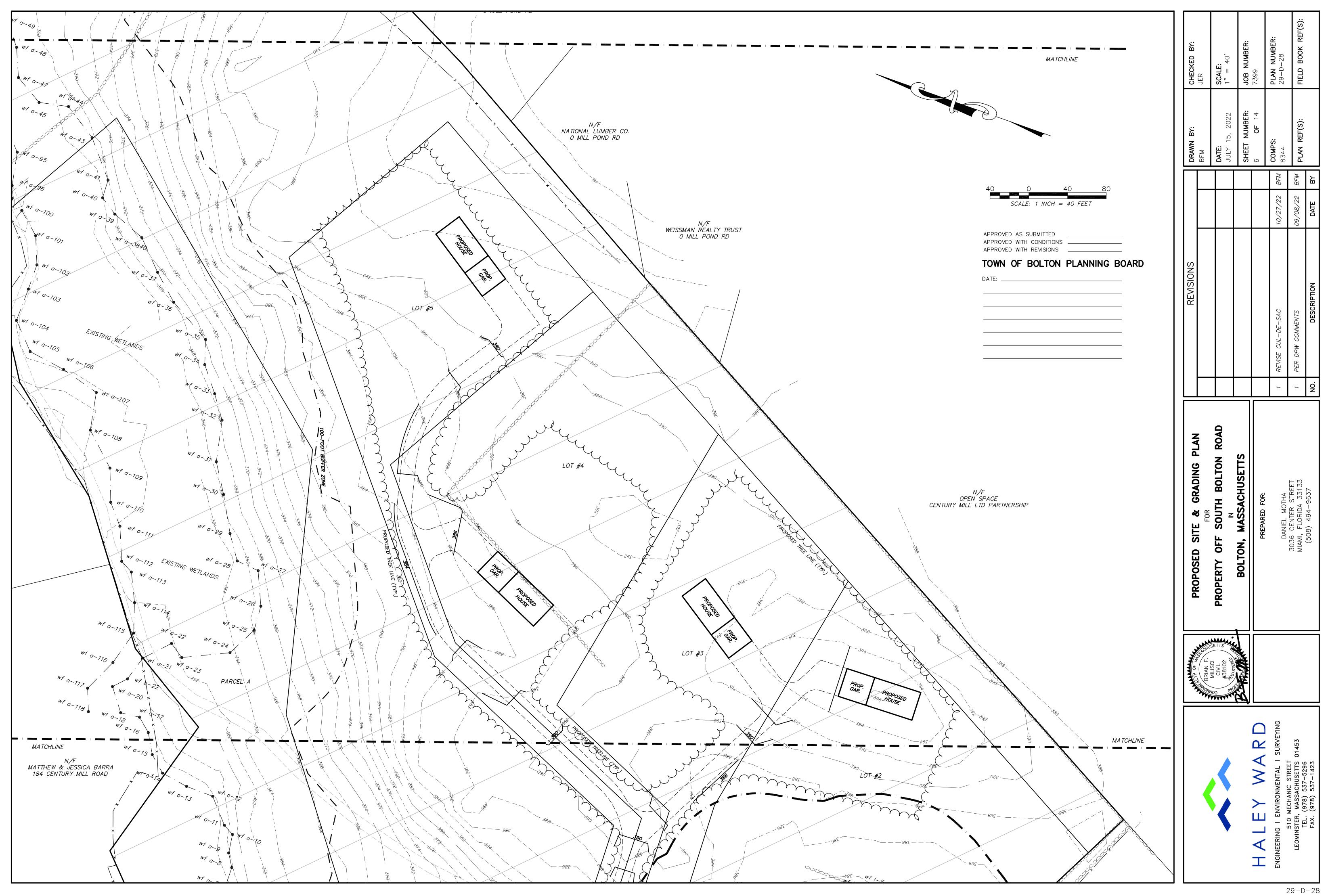


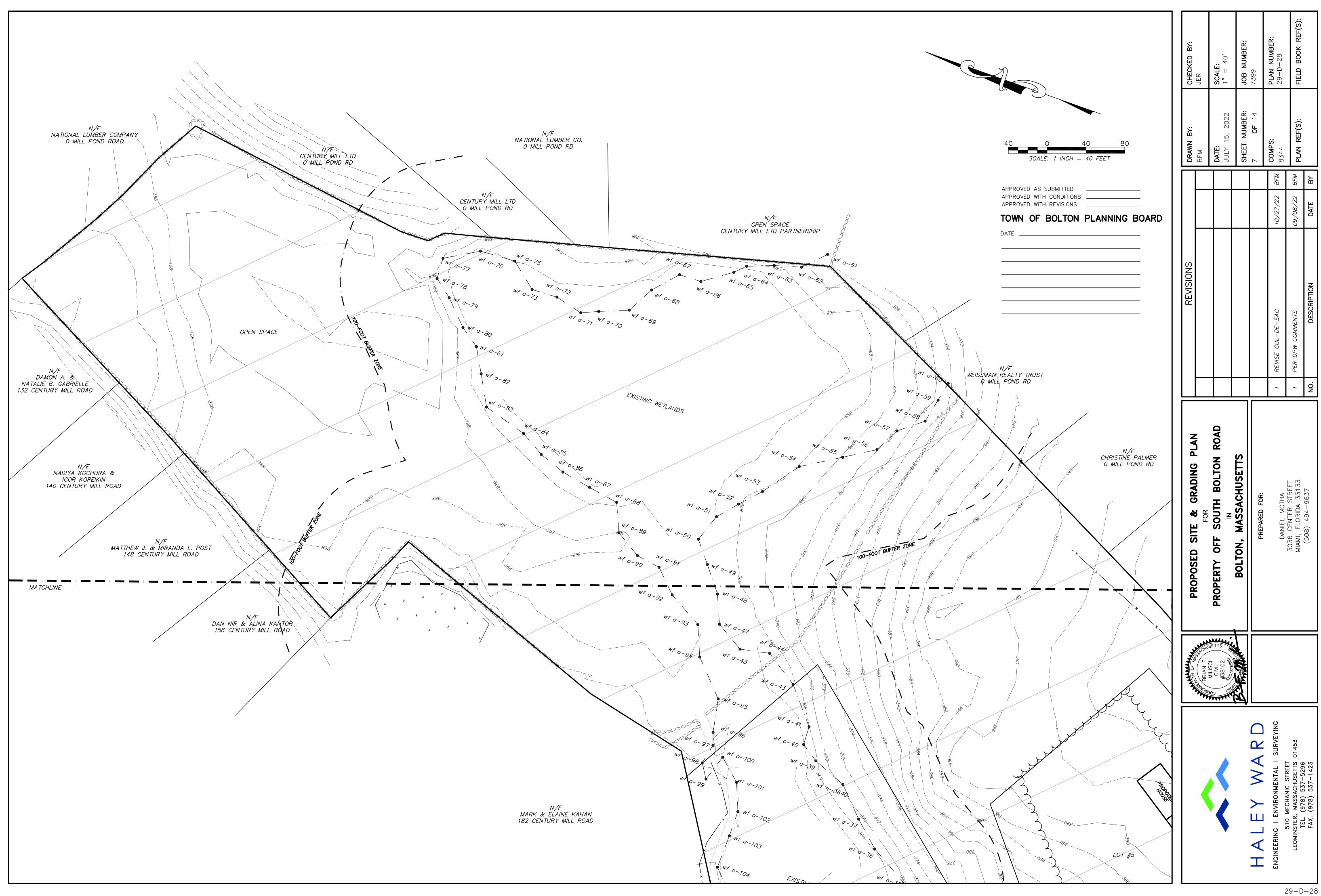


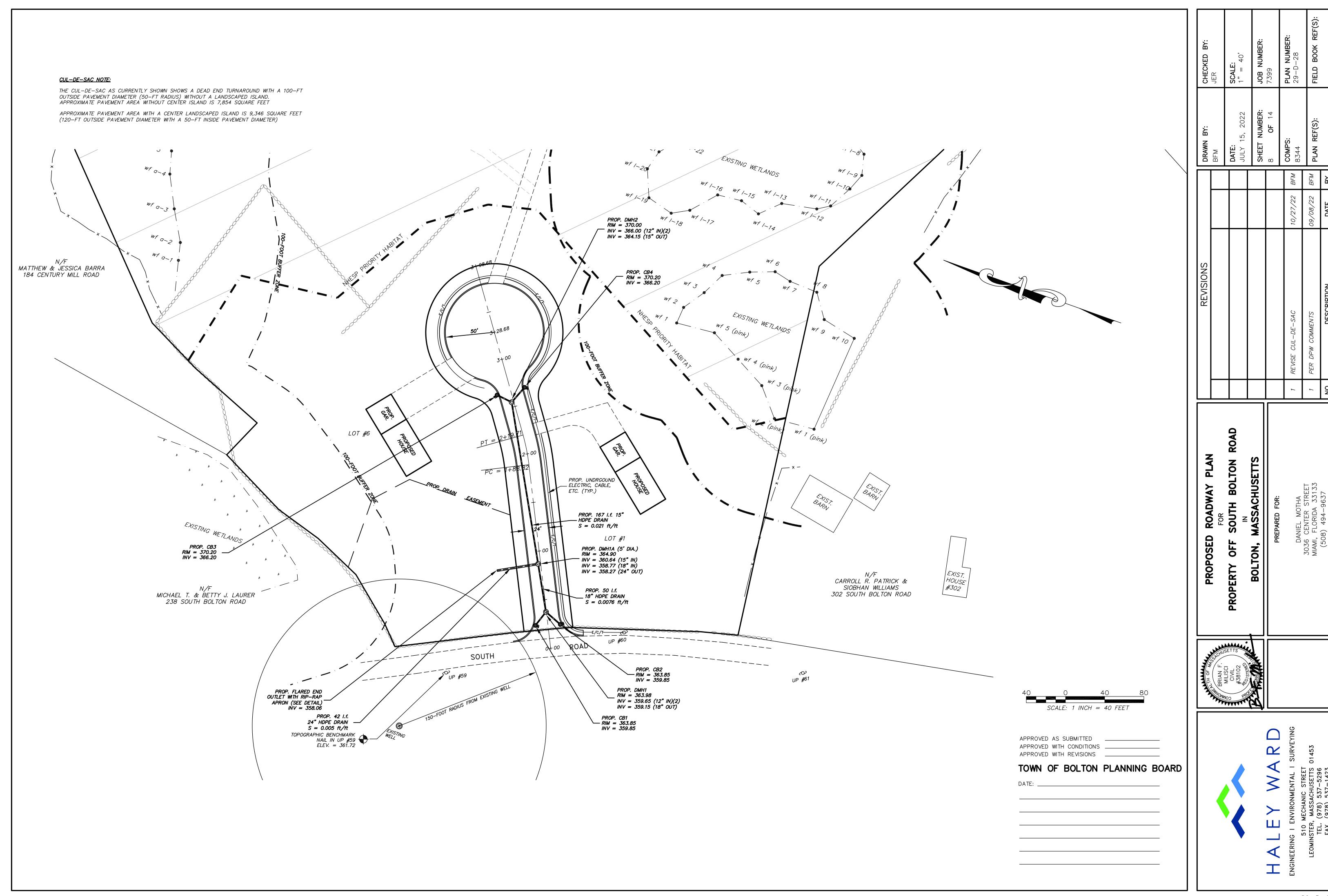


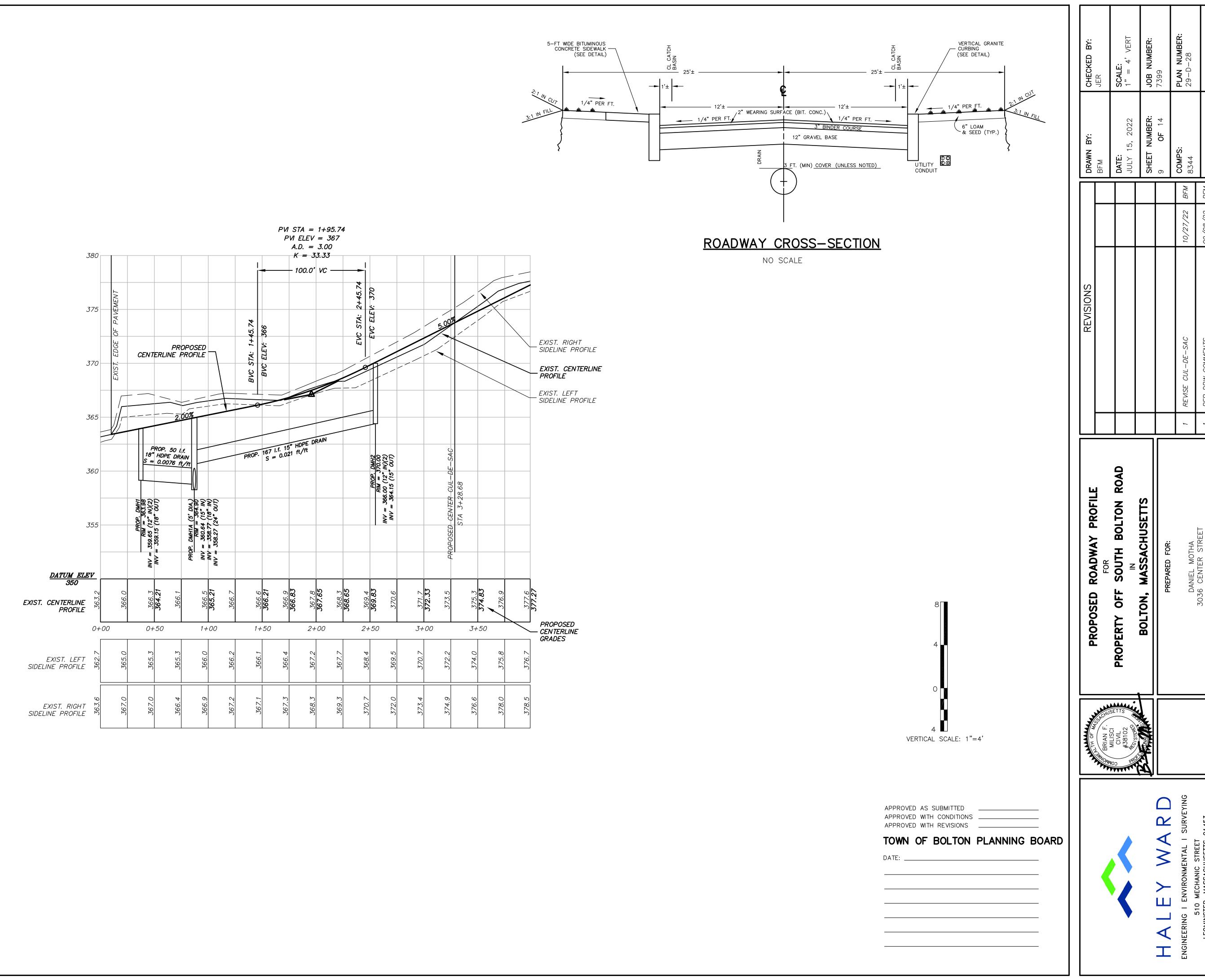


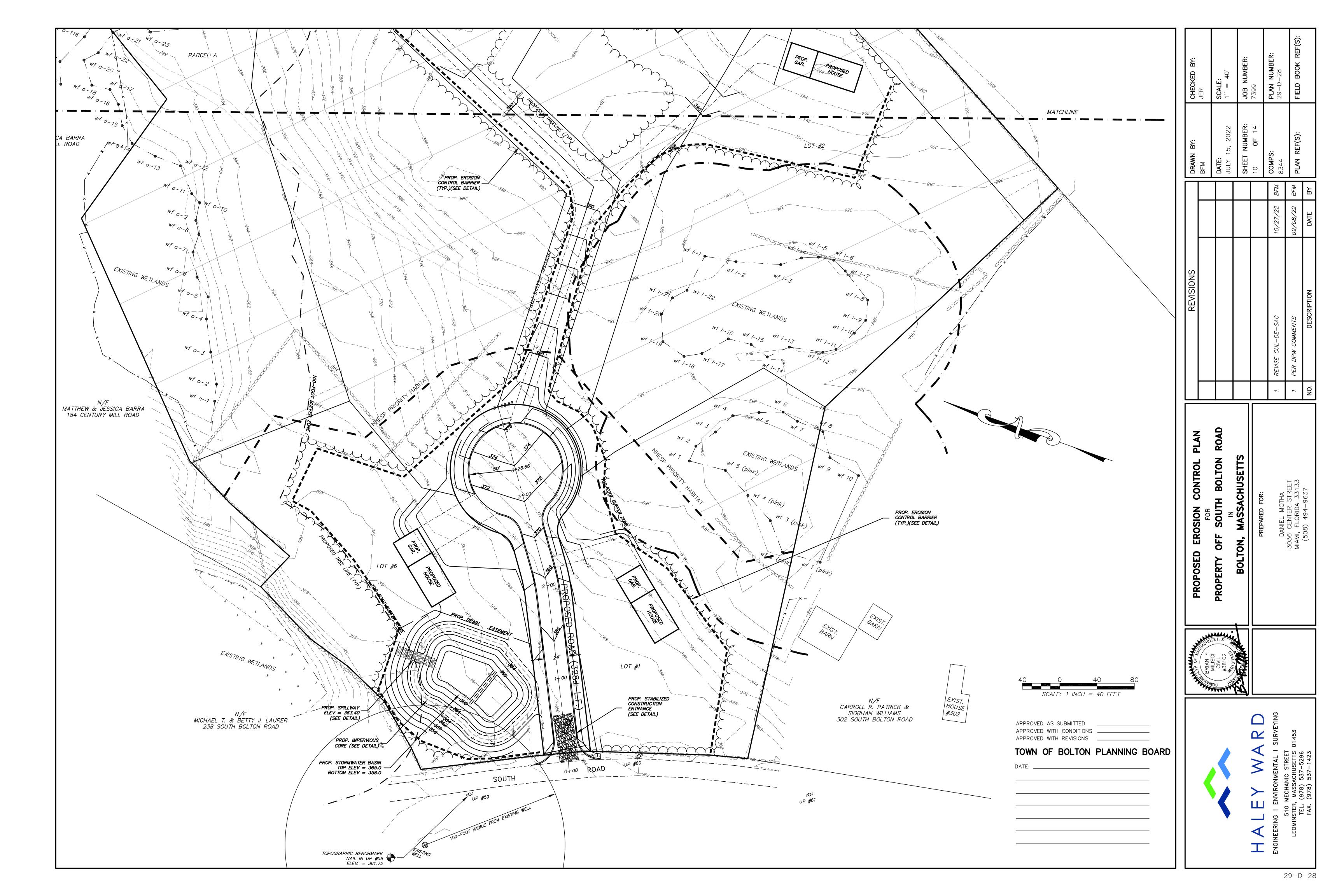


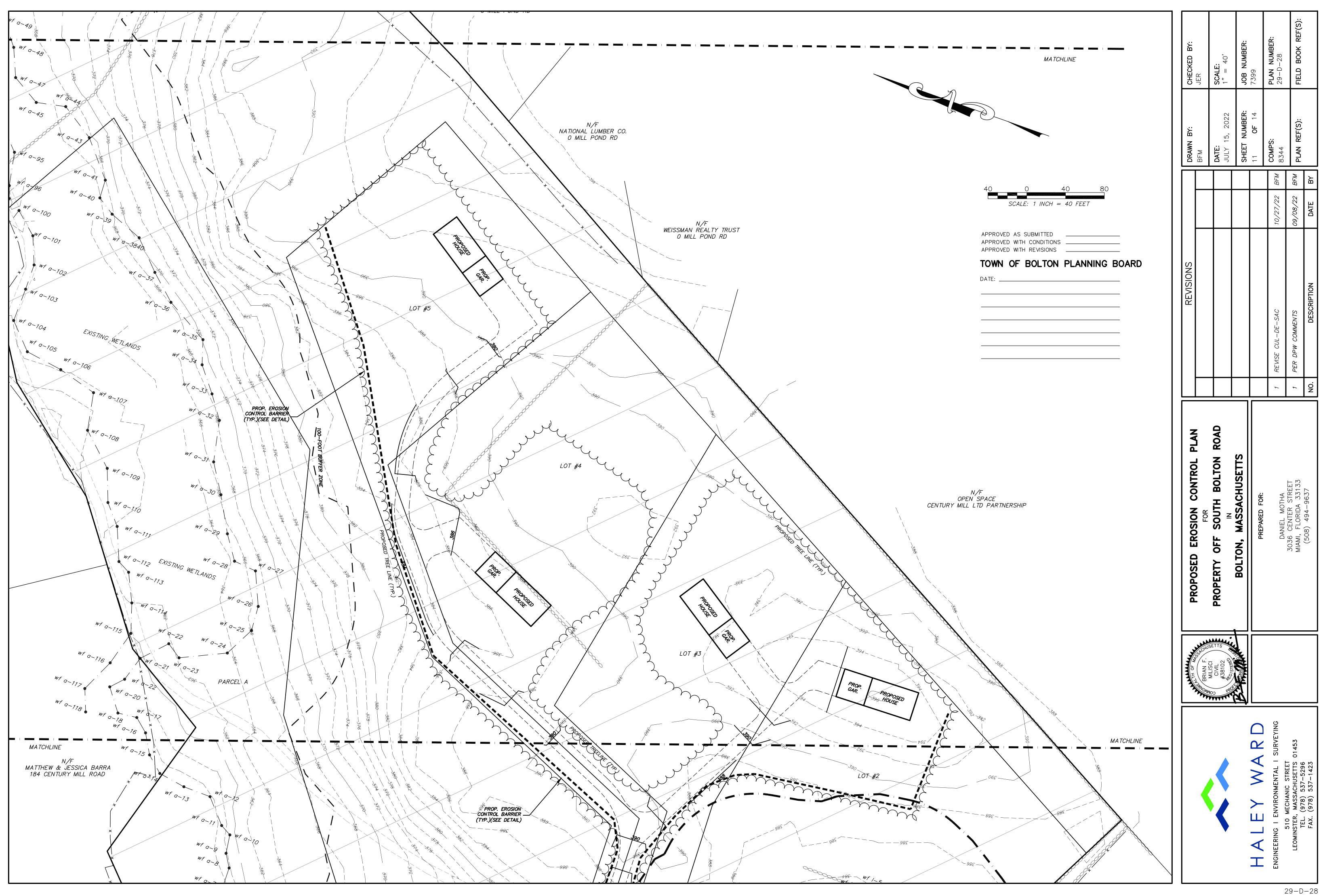












# CONSTRUCTION NOTES

### **GENERAL**

- 1.) PROPERTY LINES SHOWN HEREON ARE THE RESULT OF AN ON—THE—GROUND PROPERTY LINE SURVEY PERFORMED BY HALEY WARD, INC.
- 2.) TOPOGRAPHY SHOWN ON THESE PLANS IS THE RESULT OF AN ON-THE-GROUND TOPOGRAPHIC SURVEY PERFORMED BY HALEY WARD, INC. DURING FALL 2021. ANY ALTERATIONS TO THE TOPOGRAPHY AFTER THIS DATE MAY NOT BE REFLECTED ON THIS PLAN. ALL ELEVATIONS REFER TO NGVD OF 1988.

3.) UNLESS SPECIFIED OTHERWISE, ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE MASSACHUSETTS D.P.W. SPECIFICATIONS OF HIGHWAYS AND BRIDGES AS LAST REVISED. THE TOWN OF BOLTON PUBLIC WORKS DEPT. AND/OR THE APPROPRIATE LOCAL AUTHORITIES.

### \* \* \* DIG SAFE NOTE \* \* \*

IN ACCORDANCE WITH MGL.CH 82, SEC. 40 INCLUDING AMENDMENTS, ALL CONTRACTORS SHALL NOTIFY UTILITY COMPANIES AND GOVERNMENT AGENCIES IN WRITING, OF THE INTENT TO EXCAVATE NO LESS THAN 72 HOURS PRIOR TO SUCH EXCAVATION (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS.) OR CALL "DIG SAFE" AT 811.

5.) EXISTING UTILITY ELEVATIONS AND LOCATIONS SHOWN SHALL BE CONSIDERED APPROXIMATE ONLY. ALL UTILITY ELEVATIONS AND LOCATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, SHALL BE REPAIRED/REPLACED AS NECESSARY IF DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER AS SOON AS POSSIBLE.

6.) RELOCATION OF ANY UTILITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE APPROPRIATE UTILITY COMPANY AND/OR REGULATORY AGENCY, AT NO ADDITIONAL COST TO THE OWNER.

7.) ALL SLOPES UNLESS OTHERWISE SPECIFIED, SHALL BE LOAMED AND SEEDED AS SOON AS POSSIBLE FOR STABILIZATION AND TO PREVENT EROSION. SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH AN EROSION CONTROL BLANKET.

8.) TEST PITS SHALL BE PERFORMED IN THE AREAS WHERE CROSSING EXISTING UTILITIES IS TO BE PERFORMED PRIOR TO CONSTRUCTION TO VERIFY UTILITY DEPTHS. ADDITIONAL TEST PITS IN OTHER AREAS MAY BE REQUIRED AS DIRECTED BY ENGINEER OR LOCAL APPROVING AUTHORITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER AT TIME OF TEST PITS.

9.) ADDITIONAL BENCHMARKS TO BE SET BY CONTRACTOR PRIOR TO CONSTRUCTION TO ENSURE QUALITY WORKMANSHIP.

10.) ANY DEVIATIONS i.e. "FIELD CHANGES" FROM THE DESIGN PLANS MUST BE APPROVED BY THE DESIGN ENGINEER IN WRITING. CONTRACTOR SHOULD BE AWARE THAT LOCAL AND STATE AUTHORITIES HAVE JURISDICTION AND APPROVALS MUST BE OBTAINED THROUGH THEIR RESPECTIVE OFFICE(S) PRIOR TO CONSTRUCTION. HALEY WARD, INC. ASSUMES NO LIABILITY OR RESPONSIBILITY WHATSOEVER FOR WORK COMPLETED WITHOUT REGARD TO THE ABOVE REQUIRED "FIELD CHANGE" PROCEDURE.

11.) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSURANCES THAT MAY BE REQUIRED ON THIS PROJECT. ALL ORDERS OF CONDITIONS, STREET OPENING REQUIREMENTS, AND OTHER REQUIREMENTS UNDER PERMITTING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

12.) THESE PLANS CONTAINED HEREIN SHALL SUPERSEDE ANY AND ALL PREVIOUS DESIGNS PREVIOUSLY PREPARED FOR THE SUBJECT SITE.

13.) DAILY AND PROPER MAINTENANCE OF ALL DITCHES AND EXCAVATIONS ARE REQUIRED. TEMPORARY AND PERMANENT PATCH PER SPECIFICATIONS AND THESE PLANS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. UNDER NO CIRCUMSTANCES, ANY EXCAVATION OR DITCH SHALL BE LEFT UNCOVERED, NOT PROPERLY PATCHED, LEFT NOT MAINTAINED OR IN IMPROPER SURFACE CONDITION.

14.) ANY STILLING AND/OR DETENTION BASINS SHOULD RECEIVE PERIODIC MAINTENANCE TO REMOVE DEPOSITED SILTS AND DEBRIS TO INSURE PROPER DRAINAGE AND SETTLING OF PARTICULATE MATTER.

15.) ALL EXCESS MATERIALS I.E., SOIL, LEDGE, WATER, AND GENERAL DEBRIS, WILL BE REMOVED AND DISPOSED BY THE CONTRACTOR OFF SITE AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.

16.) BORINGS HAVE NOT BEEN DONE TO DETERMINE THE PRESENCE OF LEDGE.

### <u>SEEDING</u>

PROPOSED DRAIN

EDGE OF WOODS

EXISTING FENCE

SILT FENCE/HAYBALES

GUARDRAIL

1.) ALL UNSURFACED AREAS ARE TO RECEIVE TOPSOIL, SEED, MULCH AS REQUIRED AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.

2.) SEED UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS, CONTRACTOR SHALL PROVIDE KENTUCKY 31 FESCUE WITH ▋97% PURITY AND A GERMINATION OF 90%. FOR QUICK—COVER GRASSES ONLY, ANNUAL RYE GRASS WITH GERMINATION ↓OF 90% SHALL BE USED, UNLESS NOTED OTHERWISE ON THE DRAWINGS. FOR HIGHWAY RIGHT—OF—WAY AREAS, USE D.O.T. APPROVED GRASS ONLY. SEED TO BE APPLIED AT A RATE OF 10 LBS/1000 S.F. WITH MULCH AT A RATE OF 75 LBS PER 1000 S.F. AFTER SEEDING.

LEGEND

### \_\_\_\_\_540 \_\_\_\_\_ EXISTING CONTOURS \_\_\_\_\_ SEWER MANHOLE PROPOSED CONTOURS \_\_\_\_\_560\_\_\_\_\_ DRAIN MANHOLE PROPERTY LINES ELECTRIC MANHOLE EDGE OF WETLANDS WATER MANHOLE 100' BUFFER ZONE TELEPHONE MANHOLE EXISTING SEWER — S — S — S — CATCH BASIN EXISTING DRAIN — D — D — D — UTILITY POLE EXISTING WATER \_\_\_\_ W \_\_\_\_ W \_\_\_\_ W \_\_\_\_ FIRE HYDRANT GAS LINE —— G ——— G ——— WATER VALVE -----ECT-----ECT----UNDERGROUND UTILITIES WATER SHUT OFF UNDERGROUND ELECTRIC GAS VALVE FORCE MAIN SUBSURFACE BORING 6 10005-2 UNDERGROUND TELEPHONE —— T —— T —— T —— PROP. STREET LIGHT EXIST. EDGE OF PAVEMENT -----PROP. BOUND GRANITE CURB PROPOSED SEWER

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### SITE WORK

1.) CONSTRUCTION ACTIVITY MAY TAKE PLACE ONLY DURING HOURS AS SPECIFIED BY THE APPROPRIATE OFFICIAL OF THE TOWN OF BOLTON.

2.) CAUTION - NOTICE TO CONTRACTOR THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE/MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS OR NOT AT NO ADDITIONAL EXPENSE TO OWNER.

### 3.) FILL MATERIAL

- A.) ENSURE THAT AREAS TO BE FILLED ARE FREE OF STANDING WATER, FROST, FROZEN MATERIAL, TRASH, AND DEBRIS PRIOR TO FILL PLACEMENT.
- B.) PLACE FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING EIGHT INCHES (8") IN LOOSE DEPTH AND COMPACT EACH LAYER AT OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO DENSITY EQUAL TO ORIGINAL ADJACENT GROUND, UNLESS SUBSEQUENT EXCAVATION FOR NEW WORK IS REQUIRED.
- C.) GRADE SURFACE TO MATCH ADJACENT GRADES AND TO PROVIDE FLOW TO SURFACE DRAINAGE STRUCTURES AFTER FILL PLACEMENT AND COMPACTION.
- D.) ROADWAY FILL SHALL BE COMPACTED IN HORIZONTAL LAYERS NOT EXCEEDING 6" IN LOOSE DEPTH AND COMPACTED TO 98% OF THE MAXIMUM DRY DENSITY (STANDARD PROCTOR).

### 4.) FINISH GRADING

GRADE ALL AREAS WHERE FINISH GRADE ELEVATIONS ARE INDICATED ON DRAWINGS, OTHER THAN PAVED AREAS AND BUILDINGS, INCLUDING EXCAVATED AREAS, FILLED AND TRANSITION AREAS, AND LANDSCAPED AREAS. GRADED AREAS SHALL BE UNIFORM AND SMOOTH, FREE OF DEBRIS, OR IRREGULAR SURFACE CHANGES. FINISHED SUB-GRADE SURFACE SHALL NOT BE MORE THAN 0.10 FEET ABOVE OR BELOW ESTABLISHED FINISHED SUB GRADE ELEVATIONS, AND ALL GROUND SURFACES SHALL VARY UNIFORMLY BETWEEN INDICATED ELEVATIONS. FINISH DITCHES SHALL BE GRADED TO ALLOW FOR PROPER DRAINAGE WITHOUT PONDING AND IN A MANNER THAT WILL MINIMIZE EROSION POTENTIAL.

5.) THE CONTRACTOR IS RESPONSIBLE FOR GENERAL CLEANUP OF THE PROJECT ON A DAILY BASIS AND AT THE COMPLETION OF THE PROJECT. OPEN TRENCHES, DITCHES, EXCAVATIONS, ETC. SHALL NOT BE PERMITTED TO BE LEFT OPEN OVERNIGHT. CONTRACTOR WILL BACK FILL OR UTILIZED SUITABLE STEEL PLATES FOR THE SECURING OF THE PROJECT SITE PRIOR TO CEASING WORK IN THAT PARTICULAR SECTION OF THE PROJECT.

6.) APPROPRIATE TRAFFIC CONTROL i.e. SIGNAGE, BARRICADES, AND OTHER MEANS WILL BE SUPPLIED BY THE CONTRACTOR AND ACCORDING TO ALL FEDERAL, STATE AND LOCAL AGENCIES AT NO ADDITIONAL COST TO OWNER.

7.) UNDER NO CIRCUMSTANCES WILL ANY UTILITY, STRUCTURE, OR REPAIR BE BACK FILLED UNLESS INSPECTED AND APPROVED BY THE TOWN OF RUTLAND OR ITS DESIGNATE. THIS WILL NOT RELEASE THE CONTRACTOR FROM ANY RESPONSIBILITY OR LIABILITY AS A RESULT OF PERFORMANCE TESTS THAT ARE REQUIRED AS PART OF THIS PROJECT.

8.) DUE TO THE POSSIBILITY OF DEEP TRENCHES, PROPER SHORING AND/OR THE USE OF TRENCH BOXES SHALL BE UTILIZED AS DIRECTED BY LOCAL, STATE, AND/OR FEDERAL REGULATORY AGENCIES TO PROVIDE FOR A SAFE WORKING ENVIRONMENT.

9.) ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLAN(S) WHICH ARE DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED/REPLACED OR MOVED AS REQUIRED BY THE THE CONTRACTOR (SEE SITE WORK NOTE #2 AND GENERAL NOTE #5), AT NO ADDITIONAL COST TO THE OWNER.

10.) ALL DRAINAGE PIPE SHALL BE CORRUGATED EXTERIOR, SMOOTH INTERIOR HIGH DENSITY POLYETHYLENE (HDPE), UNLESS OTHERWISE SPECIFIED.

### 11.) USE OF EXPLOSIVES

- A.) COMPLY WITH ALL LAWS, RULES, AND REGULATIONS OF FEDERAL, STATE, AND LOCAL AUTHORITIES AND INSURER WHICH GOVERN STORAGE, USE, MANUFACTURE, SALE, HANDLING, TRANSPORTATION, LICENSING, OR OTHER DISPOSITION OF EXPLOSIVES. TAKE SPECIAL PRECAUTIONS FOR PROPER USE OF EXPLOSIVES TO PREVENT HARM TO HUMAN LIFE AND DAMAGE TO SURFACE STRUCTURES, ALL UTILITY LINES, OR OTHER SUBSURFACE STRUCTURES. DO NO CONDUCT BLASTING OPERATIONS UNTIL PERSONS IN VICINITY HAVE HAD AMPLE NOTICE AND HAVE REACHED POSITIONS OF SAFETY.
- B.) BLASTING OF ANY ROCK SHALL REQUIRE APPROPRIATE APPROVALS FROM THE TOWN OF BOLTON FIRE DEPARTMENT, PLANNING BOARD, BUILDING INSPECTOR AND/OR OTHER AGENCIES, PRIOR TO COMMENCEMENT OF WORK. FIRE DEPARTMENT MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO BLASTING.
- AT THE DISCRETION OF THE FIRE DEPARTMENT, BLASTING MAY NEED TO BE MONITORED WITH A INDEPENDENTLY SUPERVISED SEISMOGRAPH.
- ALL BLASTED ROCK OR OTHER EXCESS MATERIALS WILL BE REMOVED DISPOSED OF PROPERLY EITHER OFF-SITE OR ON-SITE, AT NO ADDITIONAL COST TO THE OWNER.

### 12.) PROTECTIONS

- A.) PROVIDE PROTECTION NECESSARY TO PREVENT DAMAGE TO EXISTING IMPROVEMENTS, TREES OR
- B.) PROTECT IMPROVEMENTS ON ADJOINING PROPERTIES AND ON OWNER'S PROPERTY.
- C.) RESTORE DAMAGED IMPROVEMENTS TO ORIGINAL CONDITION AS ACCEPTABLE TO PARTIES HAVING
- JURISDICTION.
- D.) CONDUCT OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM AUTHORITIES HAVING JURISDICTION. STREETS AND ROADWAYS SHALL BE THOROUGHLY CLEANED AND/OR SWEPT ON A DAILY BASIS OR MORE FREQUENTLY AS REQUIRED BY THE GOVERNING AUTHORITY.

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APPROVED AS SUBMITTED

### **GENERAL EROSION CONTROL NOTES:**

A. SOIL EROSION IS KEPT TO A MINIMUM.

SEED RATES AND SPECIFICATIONS IF APPROPRIATE.

- 1. THE EROSION CONTROL PLAN DEPICTS THE REQUIRED SOIL EROSION CONTROL MEASURES. THE SITE SUBCONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN SUCH A MANNER THAT:
- B. NO SEDIMENT LEAVES THE CONSTRUCTION SITE PROPERTY. C. ALL POSSIBLE MEASURES ARE EMPLOYED TO PREVENT SEDIMENT FROM ENTERING DRAINAGE COURSES EVEN BEYOND THE DETAILS SHOWN ON THIS PLAN IF NECESSARY.
- 2. THE SITE SUBCONTRACTOR IS RESPONSIBLE FOR ALL SILTATION RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES OR WATER BODIES DURING
- CONSTRUCTION AS A RESULT OF THIS PROJECT. 3. LOAM AND SEED ALL DISTURBED AREAS AT THE EARLIEST TIME POSSIBLE. USE WINTER
- 4. INSPECT SOIL EROSION MEASURES WEEKLY AND AFTER SIGNIFICANT STORM EVENTS. MAKE ALL NECESSARY REPAIRS TO FACILITIES AS SOON AS POSSIBLE BUT NO LONGER THAN TWO DAYS. CLEAN AND RESET SILT FENCES WHICH ACCUMULATE SEDIMENT AND OTHER DEBRIS.
- 5. PROTECT AND STABILIZE ALL AREAS NOT SCHEDULED FOR EROSION, PREVENTION OR STABILIZATION, BUT THAT SHOW SIGNS OF EROSION. NOTIFY ENGINEER OF ANY SIGNIFICANT
- 6. TEMPORARILY SEED, WITHIN 7 DAYS, ANY AREA WHICH WILL BE LEFT UNDISTURBED FOR MORE THAN 14 DAYS WITH TEMPORARY SEED MIX. PERMANENTLY SEED ANY AREA WHICH CAN BE LOAMED AS SOON AS POSSIBLE WITH PERMANENT SEED MIX LISTED BELOW. DO NOT USE PERMANENT SEED MIX AFTER SEPTEMBER 30.

7. FOLLOW EROSION CONTROL BARRIER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS FOR INSTALLATION OF EROSION CONTROL BARRIER. SECURE ENTIRE BOTTOM OF SILT FENCE BY BURYING BOTTOM OF FENCE IN A TRENCH, REFER TO SILT FENCE

### CONSTRUCTION SEQUENCE AND EROSION CONTROL

- 1. CONSTRUCT EROSION CONTROL BARRIER(S) AS DEPICTED ON THE DESIGN PLANS.
- 2. CLEAR AND GRUB TO LIMITS OF CUT AND FILL.
- 3. CONSTRUCT AND STABILIZE PERIMETER SLOPES AND TREATMENT SWALES.
- 4. CONSTRUCT TEMPORARY SEDIMENT AND EROSION CONTROL FACILITIES. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF EARTHWORK OPERATIONS. TEMPORARY SEDIMENT BASINS SHOULD BE CONSTRUCTED AT LOCATION OF STORMWATER BASINS, AND BEYOND THOSE SHOWN ON THIS PLAN, AS SITE CONDITIONS WARRANT ADDITIONAL PROTECTION FROM SEDIMENT TRANSPORT.
- 5. THE SITE SUBCONTRACTOR SHALL MAINTAIN SEDIMENTATION AND EROSION CONTROL DEVICES THROUGHOUT THE PROJECT SITE FOR THE DURATION OF THE CONSTRUCTION.
- 6. ALL SLOPES 2:1 AND STEEPER SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS OR EQUAL WITHIN 72 HOURS OF THEIR COMPLETION.
- 7. ALL SWALES AND DITCHES WITH SLOPES EXCEEDING 5% SHALL BE TREATED WITH JUTE MATTING.

8. CONSTRUCT SLOPED AREAS & SIDE SLOPES. BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION.

- 9. CONSTRUCT TEMPORARY DIVERSION CHANNELS AS REQUIRED.
- 10. CONSTRUCT TEMPORARY BERMS, DRAINAGE DITCHES, SILT FENCES, SEDIMENT TRAPS, ETC. MULCH AND SEED AS REQUIRED.
- 11. INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES DAILY.
- 12. COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 13. REMOVE TEMPORARY CONTROL MEASURES ONCE EXPOSED AREAS ARE STABILIZED AND PERMANENT EROSION AND SEDIMENT FACILITIES ARE INSTALLED AND ACCOMPLISH FINAL
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED:
- A. BASE COURSE GRAVELS ARE INSTALLED IN AREAS TO BE PAVED. B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED.
- C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP
- HAS BEEN ESTABLISHED. D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 14. PRIOR TO CONVERTING SEDIMENT BASINS TO STORMWATER BASINS, ALL DISTURBED AREAS SHOULD BE STABILIZED AND ACCUMULATED SEDIMENT REMOVED FROM THE BASINS. NO SEDIMENT IS ALLOWED TO ERODE FROM THE SITE OR BE FLUSHED INTO A STREAM OR DRAINAGEWAY. THE STORMWATER BASINS CAN THEN BE CONSTRUCTED PER THE PLAN WHEN NO FURTHER SEDIMENT IS BEING DIRECTED TO THEIR LOCATIONS AND ARE NO LONGER NEEDED AS SEDIMENT BASINS.
- 15. ALL DISTURBED AREAS SHALL BE STABILIZED WITH GRASS OR MULCH.
- 16. THE LENGTH OF TIME AN AREA CAN BE DISTURBED AND UNSTABILIZED IS 45 DAYS.
- 17. ALL DITCHES AND SWALES TO BE STABILIZED PRIOR TO DIRECTING RUN-OFF TO THEM.
- 18. THE SEQUENCE OF CONTRUCTION MAY OVERLAP AND VARY AS NECESSARY.

### **WINTER CONSTRUCTION NOTES:**

1. ALL PROPOSED POST-DEVELOPMENT VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15, OR WHICH ARE DISTURBED AFTER NOVEMBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 4:1. AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE. SECURED WITH ANCHORED NETTING, ELSEWHERE. THE PLACEMENT OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.

2. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY NOVEMBER 15, OR WHICH ARE DISTURBED AFTER NOVEMBER 15, SHALL BE STABILIZED WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW

### **GENERAL SEEDING NOTES\*:**

1. USE PERMANENT SEED MIXES AND RATES BETWEEN 5/15 AND 9/30 2. USE TEMPORARY SEED MIXES FOR PERIODS LESS THAN 12 MONTHS. IF USING TEMPORARY SEED MIXES AND RATES BETWEEN 10/01 AND 5/14, RE-SEED WITH PERMANENT SEED MIX AFTER 5/15. 3. SEED BED PREPARATION:

-SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS. -STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED.

### PERMANENT SEED TALL FESCUE

- 20 LBS/ACRE CREEPING RED FESCUE - 20 LBS/ACRE BIRDSFOOT TREFOIL - <u>8 LBS/ACRE</u> - 48 LBS/ACRE

### TEMPORARY SEED

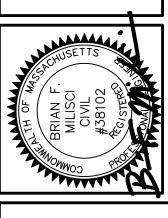
- 80 LBS/ACRE 4/01-5/14 ANNUAL RYE GRASS - 40 LBS/ACRE SUDANGRASS - 40 LBS/ACRE 5/15-8/14 ANNUAL RYEGRASS - 80 LBS/ACRE 5/15-9/14 WINTER RYE - 112 LBS/ACRE 9/15-9/30 WINTER RYE - 112 LBS/ACRE 10/01-3/31

\*OR AS DIRECTED BY QUALIFIED SEED PROFESSIONAL

(PROTECT W/MULCH COVER)

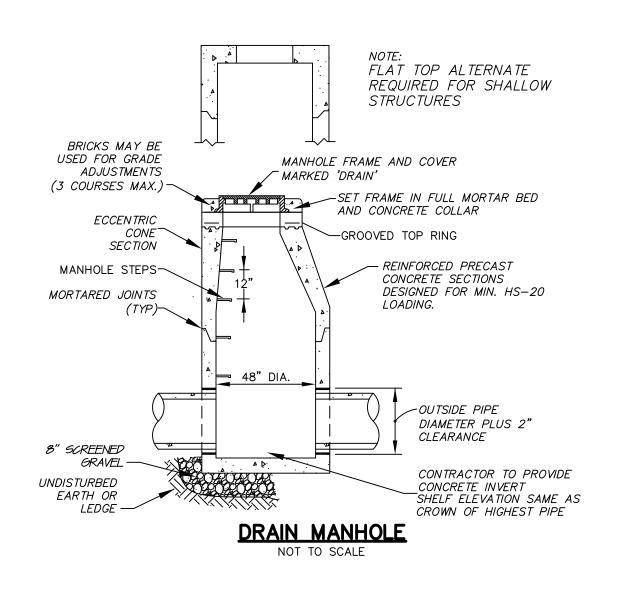
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				DATE:	SCALE:
				JULY 15, 2022	NONE
				SHEET NUMBER:	JOB NUMBER:
				12 <b>OF</b> 14	7399
1	REVISE CUL-DE-SAC	10/27/22	BFM	<b>COMPS:</b> 8344	PLAN NUMBER: 29-D-28
1	PER DPW COMMENTS	09/08/22	BFM	PLAN REF(S):	FIELD BOOK REF(S)
NO.	DESCRIPTION	DATE	BY		

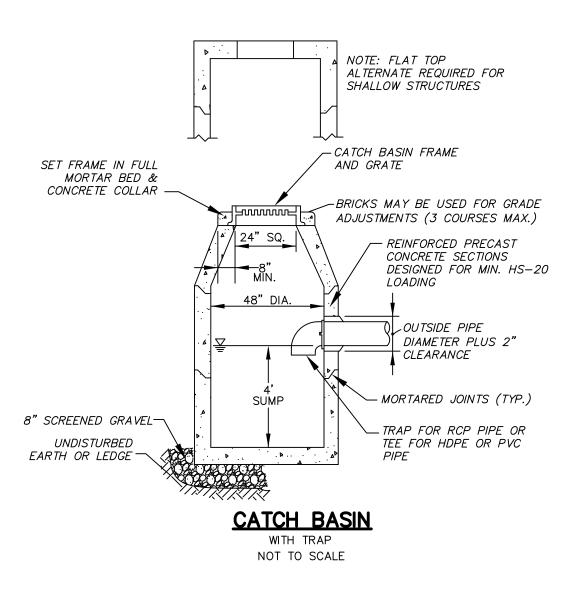
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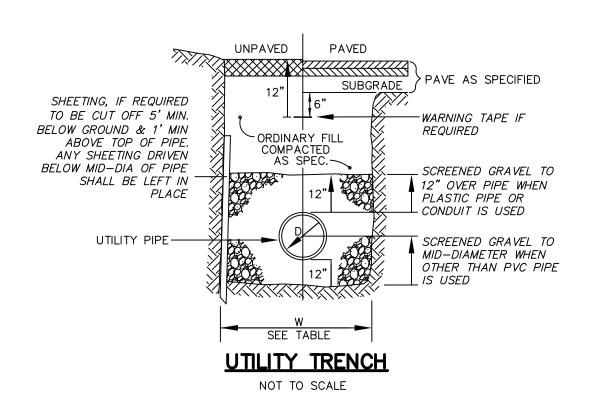


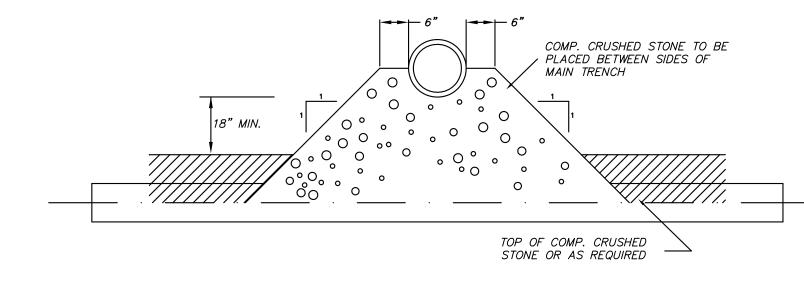


29-D-28



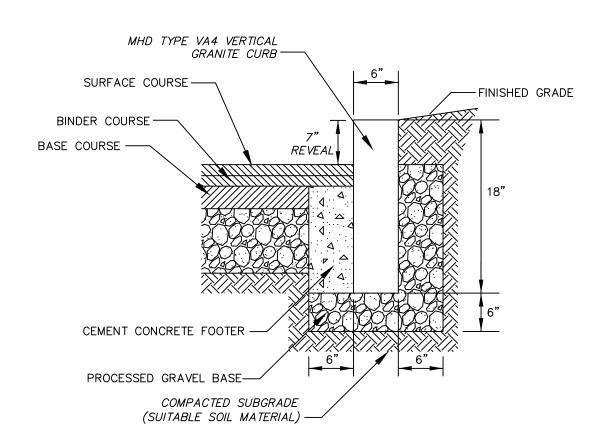




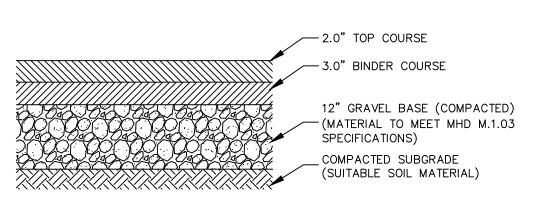


### UTILITY CROSSING DETAIL NOT TO SCALE

A MINIMUM 18-INCH VERTICAL SEPARATION SHOULD BE MAINTAINED BETWEEN THE WATER MAIN AND THE SANITARY SEWER MAIN

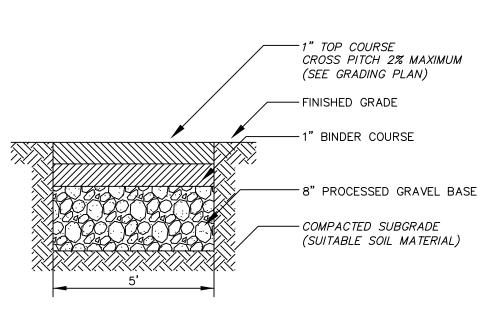






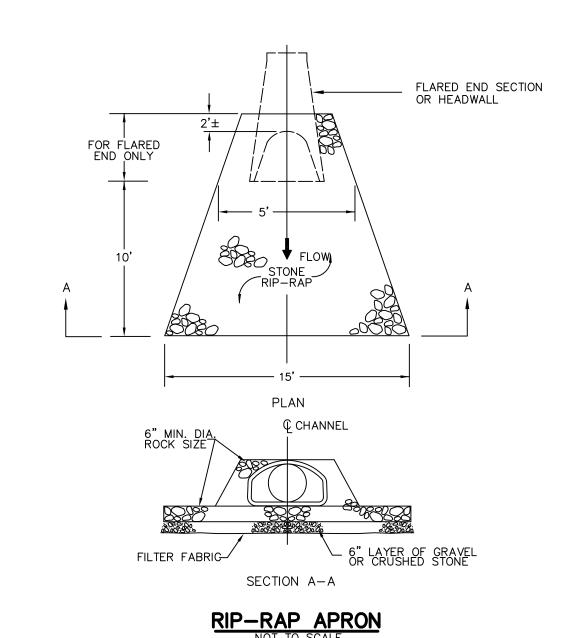
GENERAL DUTY BIT. CONC. PAVEMENT

NOT TO SCALE



BITUMINOUS CONCRETE WALK

NOT TO SCALE



APPROVED	AS SUBMITTED	
APPROVED	WITH CONDITIONS	
APPROVED	WITH REVISIONS	

### TOWN OF BOLTON PLANNING BOARD

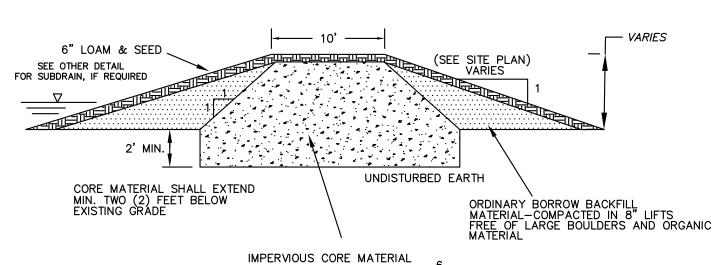
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CONSTRUCTION

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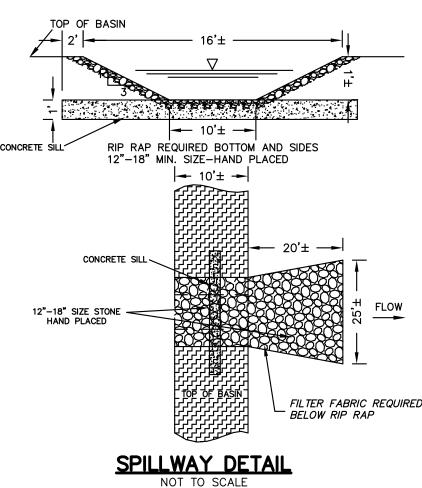


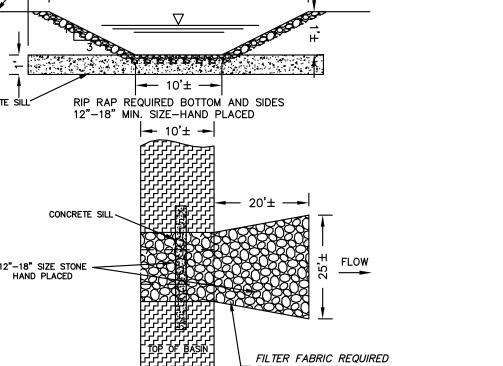
IMPERVIOUS CORE MATERIAL CONSISTING OF LESS THAN 10<sup>-6</sup> CM/SEC PERMEABILITY. COMPACTED IN 6" LIFTS

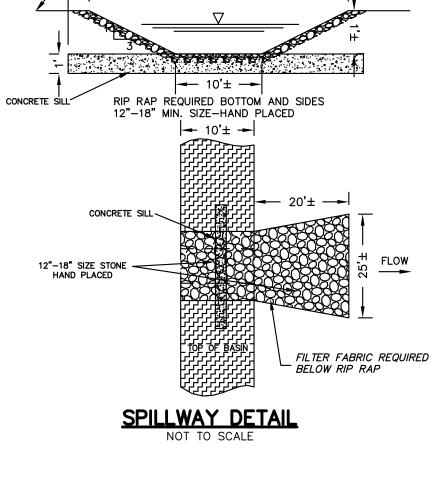
NOTE: FOUNDATION FOR DAM CONSTRUCTION SHALL BE CLEARED OF ALL TOP SOIL, ROCKS, DEBRIS, STUMPS, ETC. TO A FIRM SURFACE. IN NO CASE SHALL THIS EXCAVATION BE LESS THAN 12 INCHES. SUBGRADE SHALL BE SCARIFIED AND MOISTENED TO A DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF FILL.

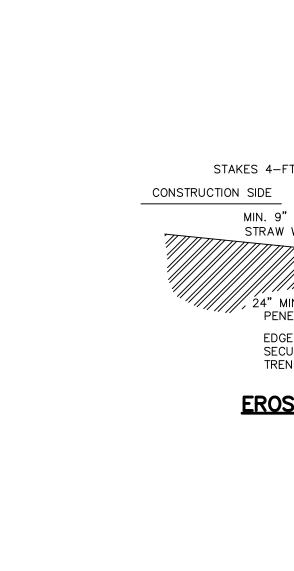
## IMPERVIOUS CORE DETAIL

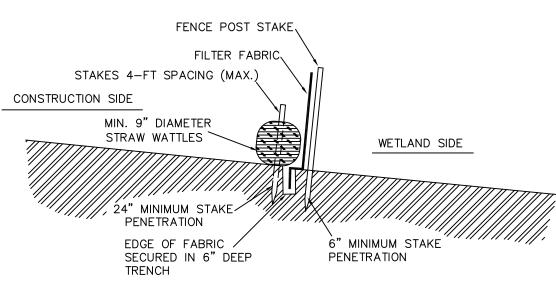
REQUIRED FOR STORMWATER BASIN CONSTRUCTION IN FILL NOT TO SCALE





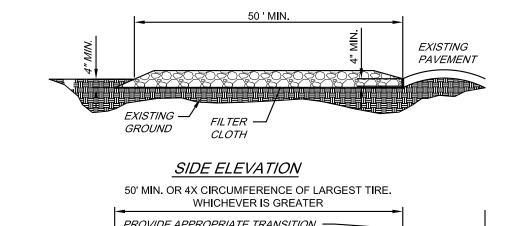






EROSION CONTROL BARRIER DETAIL

NOT TO SCALE



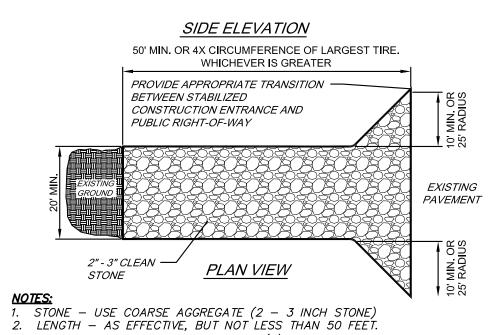
UNDISTURBED EARTH

FOREBAY DETAIL

6"-8" STONE

2"-3" STONE

358.0



3. THICKNESS — NOT LESS THAN EIGHT (8) INCHES. 4. WIDTH — NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS. 5. WASHING — WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT—OF—WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

6. MAINTENANCE — THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT—OF—WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED

### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE

CON PROPERTY BOLT	
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STRUCTION

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1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED)  OPTIONAL OVERFLOW				
1" REBAR FOR BAG REMOVAL FROM INLET (REBAR NOT INCLUDED)  OPTIONAL OVERFLOW  SILTSACK  DUMP LOOPS (REBAR NOT INCLUDED)  FOAM				
REMOVAL FROM INLET (REBAR NOT INCLUDED)  OPTIONAL OVERFLOW  SILTSACK  DUMP LOOPS (REBAR NOT INCLUDED)  REPTH D				CUR
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## SILT SACK DETAIL

NOTE: ALL CATCH BASINS WITHIN PROJECT AREA ARE TO RECEIVE SILT SACK PROTECTION DURING CONSTRUCTION PHASE OF THE PROJECT