# PROPOSED COMMON DRIVEWAY 649 MAIN STREET

BOLTON, MASSACHUSETTS

## **GENERAL NOTES:**

- 1. TOPOGRAPHICAL INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY AND COMPILED USGS INFORMATION. ELEVATIONS REFER TO NAVD 1988.
- PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY AND RECORDED
- RESOURCE AREAS AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE TOWN OF BOLTON WETLANDS BYLAW WERE DELINEATED BY DUCHARME & DILLIS CIVIL
- EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPLIED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.
- THIS PLAN IS INTENDED FOR THE FILING OF A COMMON DRIVEWAY SPECIAL PERMIT APPLICATION WITH THE BOLTON PLANNING BOARD AND A NOTICE OF INTENT APPLICATION WITH THE BOLTON CONSERVATION COMMISSION. IT SHOULD NOT BE USED FOR ANY OTHER PURPOSE.

# VARIANCES / WAIVERS REQUIRED

BOLTON ZONING BYLAW § 250.17.B VARIANCES: NONE REQUIRED.

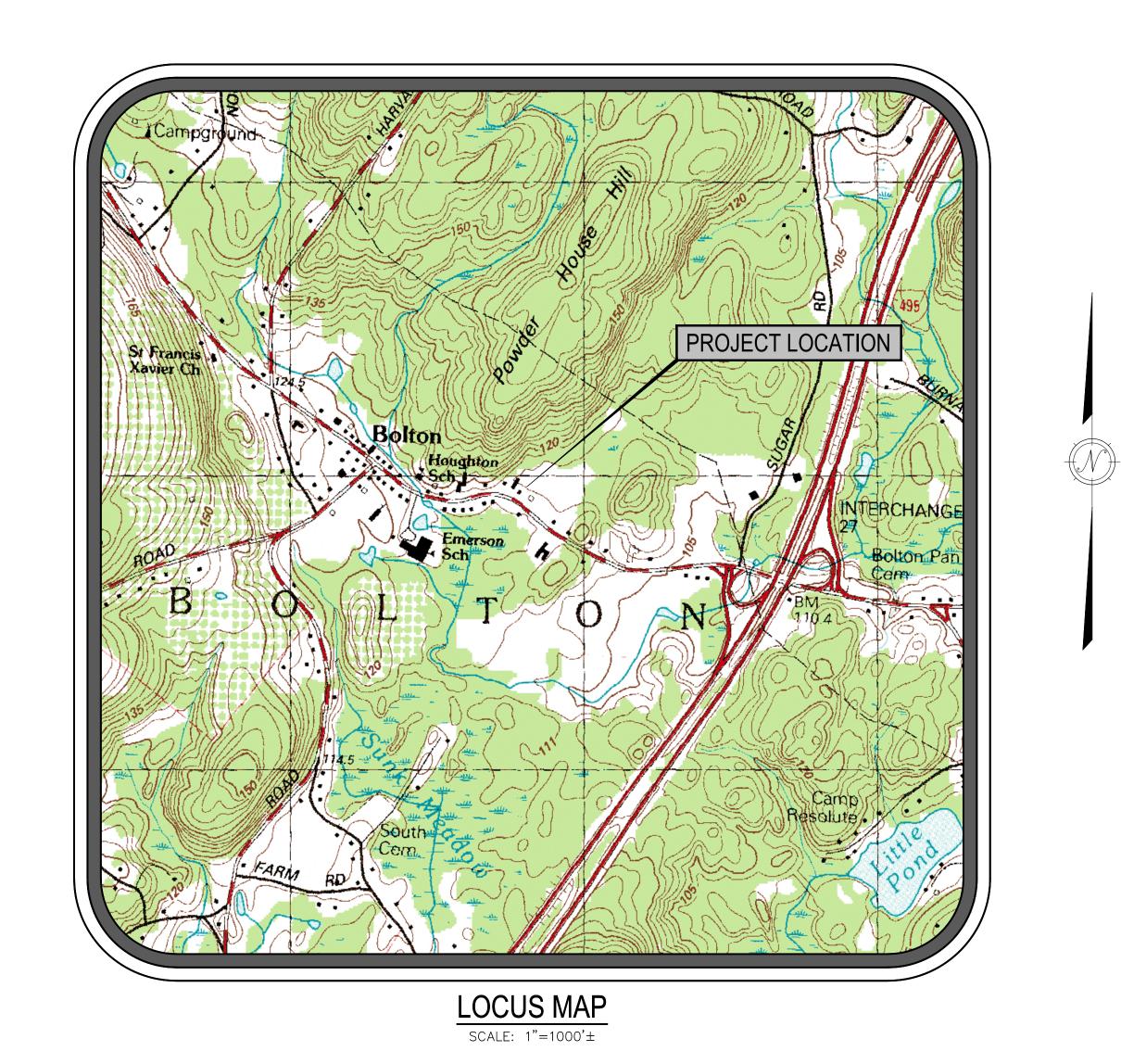
BOLTON PLANNING BOARD RULES & REGULATIONS WAIVERS:

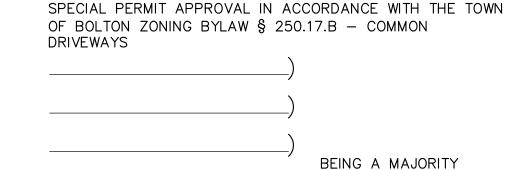
1. DRIVEWAY CROWN A WAIVER TO REGULATION 5.(F) DESIGN CRITERIA - TO ALLOW THE DRIVEWAY TO BE SUPER ELEVATED IN PLACES ÀS OPPOSED TO CROWN TO ACCOMMODATE THE DRAINAGE TO FUNCTION AS DESIGNED.

## SHEET INDEX

SHEET NUMBER SHEET TITLE TITLE SHEET SHEET GRADING & DRAINAGE PLAN SHEET DRIVEWAY PROFILE SHEET CONSTRUCTION NOTES & DETAILS SHEET 5 WETLAND CROSSING & REPLICATION PLAN

RESERVED FOR REGISTRY USE





PLANNING BOARD

DATE ENDORSED:

SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON \_\_\_\_\_\_

, CLERK OF THE TOWN OF BOLTON HEREBY CERTIFY THAT THE NOTICE OF THE APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED BY THIS OFFICE AND NO APPEAL WAS RECEIVED DURING THE TWENTY (20) DAYS NEXT AFTER RECEIPT AND RECORDING OF SAID NOTICE.

OF THE BOLTON

BOLTON TOWN CLERK DATE

### LEGEND

DESCRIPTION	EXISTING DRAWING ENTITY	PROPOSED DRAWING ENTITY
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DENOTES CONTOUR (INTERMEDIATE)	<del></del>	
DENOTES SEWER LINE	——————————————————————————————————————	
DENOTES WATER LINE	W	w
DENOTES OVERHEAD WIRES	OW	OW
DENOTES UNDERGROUND UTILITIES		ETC
DENOTES DRAIN MANHOLE	<b>(D)</b>	•
DENOTES CATCH BASIN		
DENOTES SEWER MANHOLE	<b>S</b>	<b>①</b>
DENOTES EROSION CONTROL BARRIER		
DENOTES UTILITY POLE	Q	
DENOTES EMERG. ACCESS DIRECTION SIGN		<del>-0</del> s
DENOTES WETLAND FLAG	4/1/	
DENOTES EDGE OF WETLAND	WF A1	
DENOTES 100' WETLAND BUFFER LIMIT		



CIVIL ENGINEERS • LAND SURVEYORS • WETLAND CONSULTANTS

092 MAIN STREET, P.O. BOX 428 www.DucharmeandDillis.com BOLTON, MASSACHUSETTS 01740

PAUL & JENNIFER LANDERS 649 MAIN STREET BOLTON, MASSACHUSETTS

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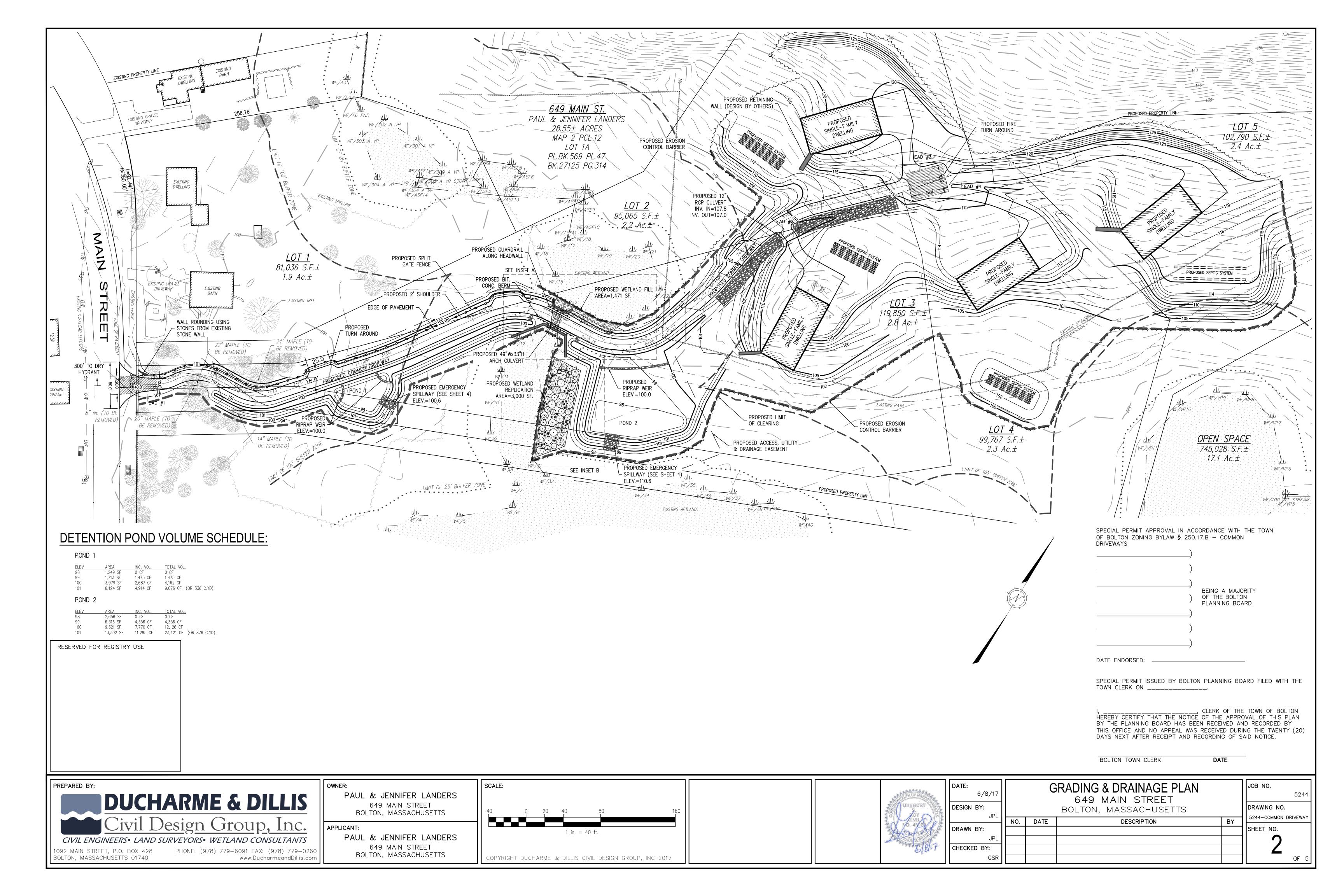
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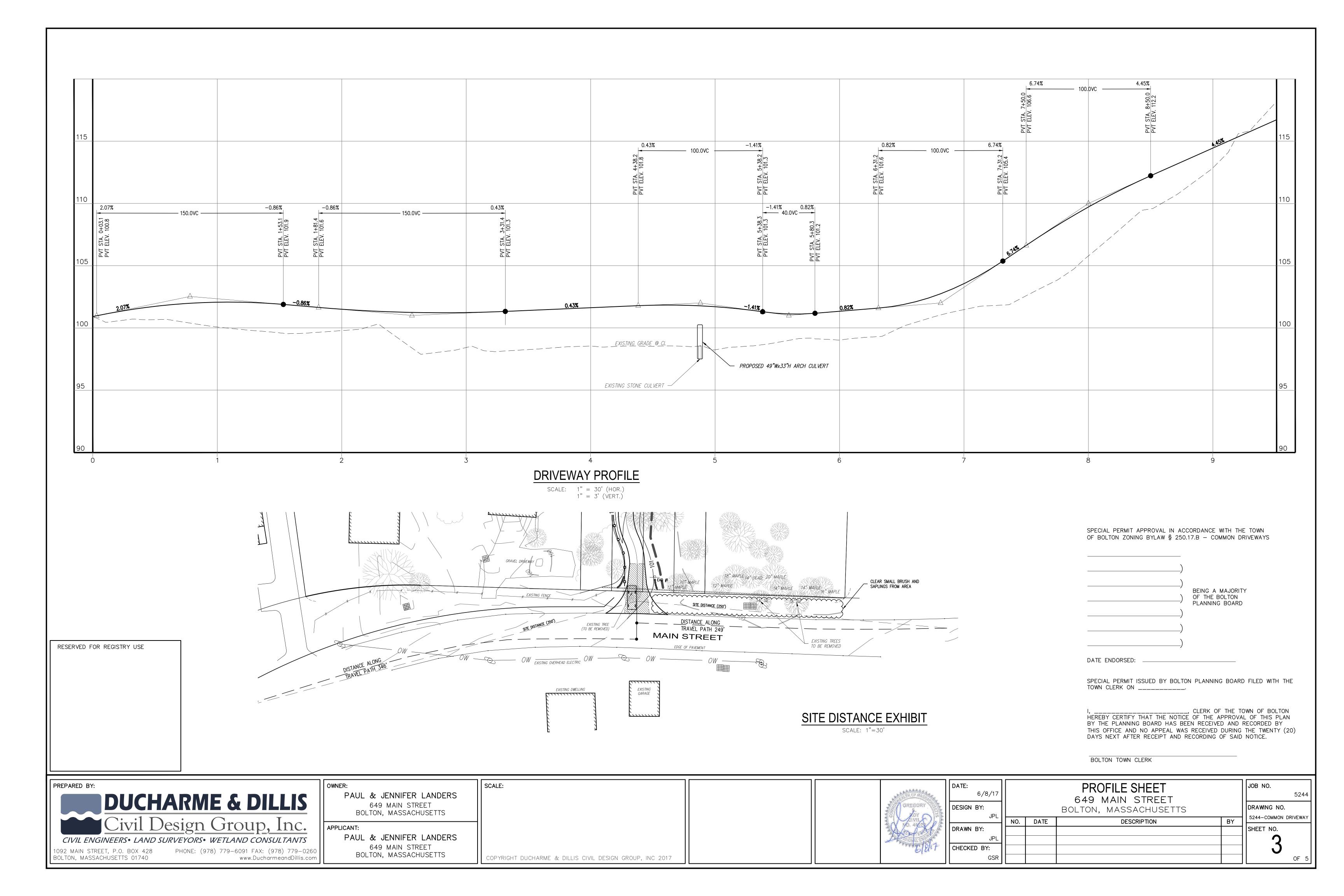


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# TITLE SHEET 649 MAIN STREET BOLTON, MASSACHUSETTS **DESCRIPTION**

JOB NO. 5244 DRAWING NO. 5244-COMMON DRIVEWAY BY SHEET NO.





## NOTES/SPECIFICATIONS:

ALL CONSTRUCTION SHALL CONFORM TO THE BOLTON PLANNING BOARD RULES & REGULATIONS FOR COMMON DRIVEWAYS AND THE BOLTON ZONING BYLAW SECTION 2.4.1.2 UNLESS OTHERWISE NOTED. IN THE EVENT OF A CONFLICT BETWEEN THE REGULATIONS AND THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION PRIOR TO CONSTRUCTION.

HOUSE - STREET DISTANCE: THE MAXIMUM DISTANCE FROM THE TRAVELED WAY TO EACH HOUSE MEASURED ALONG THE CENTERLINE OF THE PROPOSED COMMON AND INDIVIDUAL DRIVEWAY SHALL BE 1,800 FEET.

#### 1.0 MATERIALS

#### 1.1 BITUMINOUS PAVEMENT

- ASPHALT FOR COMMON DRIVEWAY SHALL BE 1 ½" WEARING COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A TOP COURSE OVER 2" BINDER COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A BINDER
- 1.1.2 ASPHALT FOR SINGLE FAMILY DRIVEWAYS SHALL BE 1  $\frac{1}{2}$ " WEARING COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A TOP COURSE OVER 1  $\frac{1}{2}$ " BINDER COURSE, COMPACTED, CONFORMING TO SSHB M03.11.03 TYPE A
- BINDER COURSE 1.1.3 NO FINISH PAVING SHALL OCCUR BETWEEN NOVEMBER 15TH-APRIL 1ST. BASE PAVING BETWEEN NOVEMBER 15TH AND APRIL 1ST SHALL BE AT THE DISCRETION OF THE PLANNING BOARD OR ITS AGENT.

#### 1.2 SOIL MATERIALS

- 1.2.1 ROAD GRAVEL SHALL BE PLACED AS SHOWN ON THE ROAD CROSS SECTIONS HEREON. PLACE 8" OF GRAVEL,
- COMPACTED, CONFORMING TO SSHB M.1.03.0 TYPE C. STRUCTURAL FILL SHALL CONFORM TO SSHB M1.03.0 GRAVEL BORROW.
- 1.2.3 COMMON FILL SHALL CONFORM TO SSHB M1.01.0 ORDINARY BORROW.
- 1.2.4 TOPSOIL SHALL CONFORM TO SSHB M1.07.0 TOPSOIL AND PLANTABLE SOIL BORROW. TOPSOIL USED TO RESTORE THE BOTTOMS OF SWALES SHALL BE A 50%/50% MIX OF M1.07.0 AND M1.04.1 (SAND
- FOR SUBDRAINS) 1.2.6 CULVERT SUBSTRATE - FILL THE BOTTOM 1' OF THE PROPOSED CULVERT WITH NATURAL ROCK SUBSTRATE TO BE AN EVEN GRADATION OF 4" MINUS DOWN TO 3/4".

- 1.3.1 STONE RIP RAP SHALL BE ANGULAR AND SHALL CONFORM TO SSHB M2.02.3 STONE FOR PIPE ENDS.
- STONE RIP RAP SHALL BE UNDERLAIN WITH 6" (MIN.) GRAVEL. GRAVEL BASE FOR RIP RAP SHALL BE UNDERLAIN WITH FILTER FABRIC SIMILAR TO TENCATE MIRAFI N140.
- 1.3.4 STONE RIP RAP SHALL BE PLACED IN THE LOCATIONS AND QUANTITIES SHOWN ON THIS PLAN 1.3.5 RIP RAP SHALL BE PLACED SUCH THAT THE TOPS OF THE ROCKS ARE AT FINAL FINISHED GRADE. CONTRACTOR TO EXCAVATE SUBGRADE TO 1.5-FEET (MIN.) BELOW FINAL FINISHED GRADES TO ACCOMMODATE GRAVEL AND

#### 1.4 HEADWALLS

- 1.4.1 REFER TO THE DETAIL HEREON FOR ADDITIONAL INFORMATION. 1.4.2 SHALL BE CONSTRUCTED OF FIELDSTONE GROUTED IN PLACE, UNLESS OTHERWISE NOTED. ADJUST WINGWALL ANGLES AND ELEVATIONS TO CONFORM TO THE ADJACENT FILL. SET TOP OF WINGWALLS AND

## HEADWALL 3" ABOVE FINAL FINISHED GRADES MEASURED FROM THE BACK OF THE HEADWALL.

- GUARDRAIL SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPROVED MASS HIGHWAY DETAILS AND PRACTICES.. GUARDRAIL SHALL BE WOODEN WITH STEEL REINFORCEMENT CONFORMING TO THE REQUIREMENTS OF MASS
- 1.5.3 CONTRACTOR TO SUBMIT DRAWINGS FOR APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTION OF THE

#### DRAINAGE SPECIFICATIONS

### 2.1 SWALE CONSTRUCTION

2.1.1 SWALES SHALL BE CONSTRUCTED AS SHOWN ON THE DRIVEWAY CROSS—SECTION DETAIL HEREON. 2.1.2 RIPRAP SHALL BE INSTALLED IN THE SWALE WHEN GRADES ARE 5% OR STEEPER.

### DRIVEWAY AND CULVERT CONSTRUCTION

- 3.1 SINGLE FAMILY DRIVEWAYS SHALL BE 1 ½" WEARING COURSE, OVER 1 ½" BINDER COURSE, OVER 8" OF
  - GRAVEL. 3.2 SINGLE FAMILY DRIVEWAYS SHALL BE A MINIMUM OF 10-FEET IN WIDTH (MINIMUM).
  - 3.3 COMMON DRIVEWAY SHALL BE 1 ½" WEARING COURSE OVER, 2" BINDER COURSE, OVER 8" GRAVEL.
  - 3.4 COMMON DRIVEWAY SHALL BE 12-FEET IN WIDTH (MINIMUM).
  - 3.5 REFER TO SECTION 1.0 OF THESE NOTES FOR MATERIAL SPECIFICATIONS. 3.6 CULVERT INLETS AND OUTLETS SHALL BE EQUIPPED WITH FLARED END SECTIONS OR HEADWALLS AS SHOWN

#### MISCELLANEOUS ITEMS

ON THE PLAN

4.1 PLACE EMERGENCY ACCESS DIRECTION SIGNS REQUIRED BY THE BOLTON REGULATIONS AT THE LOCATIONS SHOWN ON THE PLAN.

## RESTORATION

RESERVED FOR REGISTRY USE

- RESTORE ALL DISTURBED AREAS WITH A MINIMUM OF 6" TOPSOIL, SEED, FERTILIZER AND MULCH. 5.2 THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF VEGETATION PRIOR FINAL SIGN—OFF OR
  - REMOVAL OF EROSION CONTROL BARRIERS. 5.3 GRASS SEED SHALL BE SELECTED BASED ON THE SHADE/SUN CONDITIONS WHICH WILL EXIST.

## CONSTRUCTION SEQUENCE

- 6.1 DURING THIS SEQUENCE ALL EROSION CONTROLS SHALL BE INSPECTED AND MAINTAINED. ALL DISTURBED AREAS SHALL BE STABILIZED BY SEEDING OR SODDING AS SOON AS POSSIBLE AFTER GRADING IS COMPLETE. EROSION BARRIERS SHALL BE REMOVED AFTER SLOPE STABILIZATION IS COMPLETE.
- 6.2 INSTALL EROSION AND SEDIMENT CONTROL MEASURES. 6.3 TREE CLEARING, GRUBBING AND STUMP REMOVAL.
- 6.4 PREPARE WETLAND REPLICATION AREA TO RECEIVE TRANSLOCATED SOIL. 6.5 EXCAVATE AND TRANSLOCATE WETLAND SOIL TO THE PROPOSED WETLAND REPLICATION AREA.
- 6.6 EXCAVATE TO SUB-GRADE IN CUT SECTIONS; BRING FILL SECTIONS TO SUB-GRADE USING EXCAVATED SOIL. 6.7 INSTALL CULVERT AND PROPOSED RETAINING WALL AT WETLAND CROSSING.
- 6.8 INSTALL ROAD GRAVEL AND ROUGH GRADE SWALES. 6.9 CONSTRUCTION STORMWATER MANAGEMENT AREAS.
- 6.10 INSTALL UTILITIES INCLUDING THE DRAINAGE SYSTEM AND SEWER LINE SLEEVES. 6.11 FINISH GRADE SWALES.
- 6.12 PLACE RIP RAP IN THE LOCATIONS SPECIFIED ON PLANS. 6.13 LOAM, SEED AND MULCH DISTURBED AREAS.
- 6.14 PLACE BINDER COURSE FOR ROADWAY.
- 6.15 REMOVE EROSION CONTROL AFTER SITE HAS BEEN STABILIZED AND AFTER APPROVAL HAS BEEN GIVEN BY THE BOLTON CONSERVATION COMMISSION.

#### - 3 GUYS OF 10 GAUGE TWISTED WIRE 120° APART AROUND TREE 2"x2", 10 LONG WOOD STAKE. TWO PER TREE -3" MULCH LAYER ─ FROM TOP OF BALL BACKFILL MIX FINISH GRADE ON-SLOPE BEYOND LEAVE SUB GRADE SAUCER UNDISTURBED UNDER ROOT BALL NOTE: DO NOT PLACE ANY MATERIAL EQUALS TWICE BALL DIAMETER

POND 1A 101.0 1 101.0 POND 1B 100.6 100.6

SEDIMENT CONTROL FABRIC

- NATURAL BACKFILL

SILTATION BARRIER

NOT TO SCALE

LEDGE SECURED IN 6" TROUGH

- ATTACH TO POSTS WITH STAPLES

**EMERGENCY SPILLWAY** 

NOT TO SCALE

WOODEN POSTS AT 8'

2 METAL OR WOODEN

STAKES PER BALE —

HAYBALES

TIGHTLY

TOGETHER

UNDISTURBED

SUBGRADE —

MAXIMUM SPACING

V EXISTING GRADE

50% TOP SOIL,

50% SAND

4 – %"ø THREADED

ALL HARDWARE TO BE - STAINLESS STEEL

RODS WITH NUT, FLAT AND

LOCK WASHERS (COUNTERSINK)

TYPICAL SWALE SECTION

SCALE: 1"=5'

TOP OF CURB

WOODEN GUARDRAIL DETAIL

NOT TO SCALE

FINISHED GRADE-

6"x 8"x 12"

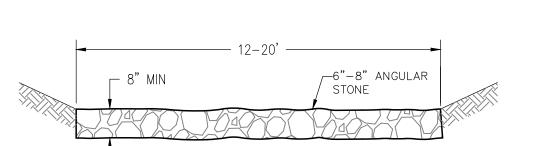
NOTE: ALL TIMBER TO BE PRESSURE TREATED

WOOD BLOCK-\

## TREE PLANTING DETAIL NOT TO SCALE

<u>note:</u> length = 40' minimum SEE PLAN FOR LOCATION(S)

OTHER THAN MULCH ON ROOT BALL



# TEMP. CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

SCALE:

# TYPICAL E.A.D. SIGN NOT TO SCALE

CONCRETE ~

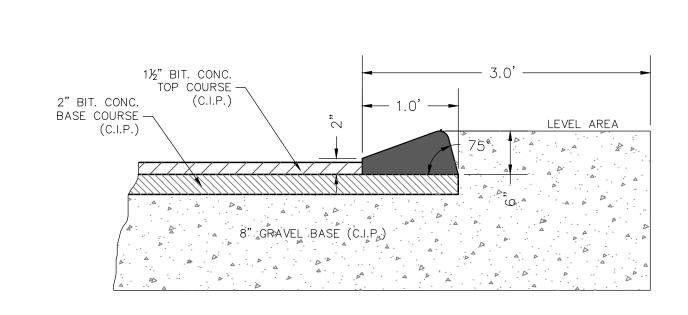
## EAD SIGN #2 EAD SIGN #3

## <u>EXIST</u>ING GRADE 4" TOPSOIL, SEED, FERTILIZER AND MULCH 1 $\frac{1}{2}$ " SSHB M03.11.03, COMPACTED, TABLE A TOP COURSE OVER. 2" SSHB M03.11.03, COMPACTED, TABLE A BINDER COURSE OVER, -8" GRAVEL, COMPACTED, IN ACCORDANCE WITH SSHB M.1.03.0, TYPE C.

## TYPICAL COMMON DRIVEWAY CROSS SECTION

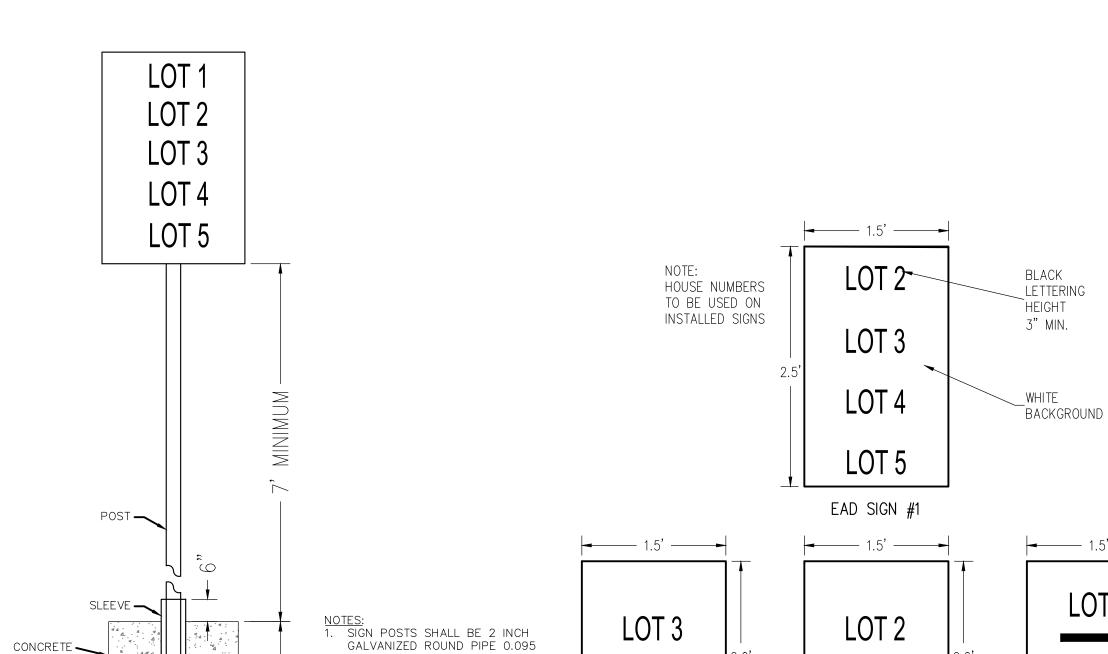
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SCALE: 1"=5'



# BITUMINOUS CONCRETE CURB DETAIL

NOT TO SCALE

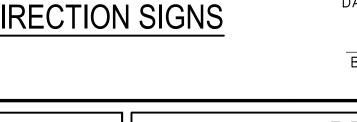


INCH WALL THICKNESS.

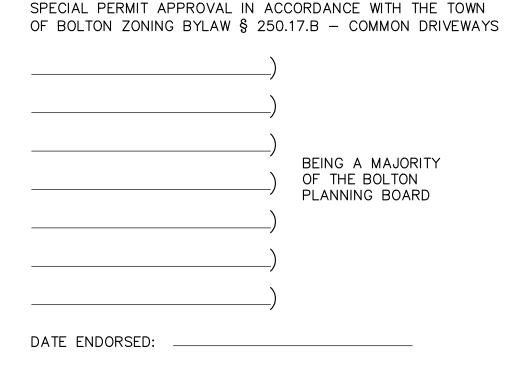
EXISTING SIDEWALK.

CONCRETE SHALL BE CLASS 3000, FINISH TO MATCH

## **EMERGENCY ACCESS DIRECTION SIGNS** SCALE: 1"=1'



EAD SIGN #4



SPECIAL PERMIT ISSUED BY BOLTON PLANNING BOARD FILED WITH THE TOWN CLERK ON \_\_\_\_\_.

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BOLTON TOWN CLERK DATE



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PHONE: (978) 779-6091 FAX: (978) 779-0260 092 MAIN STREET, P.O. BOX 428 BOLTON, MASSACHUSETTS 01740 www.DucharmeandDillis.con

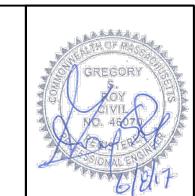
## OWNER:

PAUL & JENNIFER LANDERS 649 MAIN STREET BOLTON, MASSACHUSETTS

## APPLICANT:

PAUL & JENNIFER LANDERS 649 MAIN STREET BOLTON, MASSACHUSETTS

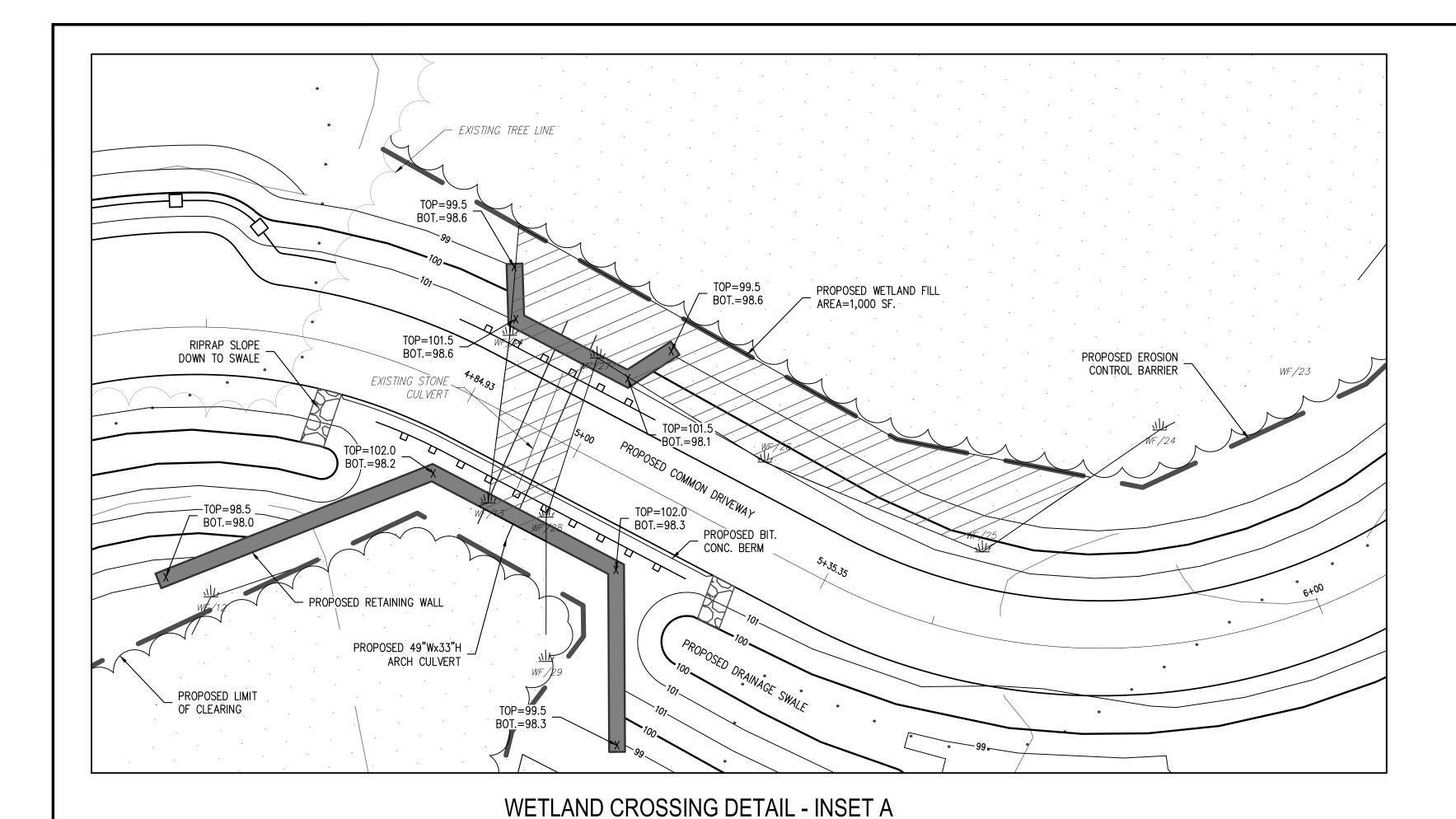


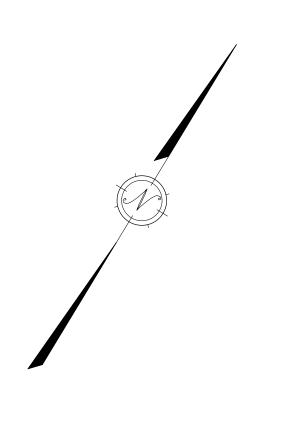


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	DETAILS SHEET 649 MAIN STREET BOLTON, MASSACHUSETTS	
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## JOB NO. 5244 DRAWING NO. 5244-COMMON DRIVEWAY BY SHEET NO.







# WETLAND REPLICATION AREA - INSET B

SCALE: 1" = 10'

## PLANTING SCHEDULE:

SYMBOL:	COMMON NAME:	BOTANICAL NAME:	SIZE:	SPACING:	QUANTITY:
+ AR	RED MAPLE	ACER RUBRUM	4–6' HEIGHT	AS SHOWN	8
+ BA	YELLOW BIRCH	BETULA ALLEGHANIENSIS	3–4' HEIGHT	AS SHOWN	7
+ VC	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	3–4' HEIGHT	AS SHOWN	12
+ IV	COMMON WINTERBERRY	ILEX VERTICILLATA	3-4'	AS SHOWN	16
oc	CINNAMON FERN	OSMUNDA CINNAMOMEA	#1 POT	AS SHOWN	19
OR	ROYAL FERN	OSMUNDA REGALIS	#1 POT	AS SHOWN	20

SCALE: 1" = 10'

NOTE: THE ENTIRE REPLICATION AREA WILL BE SEEDED WITH "NEW ENGLAND WET MIX" (WETLAND SEED MIX) AT AN APPLICATION RATE OF 1 LB/2500 S.F.

THE MIX MAY BE APPLIED BY MECHANICAL SPREADER, OR BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH AN EARLY SPRING SEEDING. SUMMER SEEDING CAN BE SUCCESSFUL WITH A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOIL IS PARTICULARLY INFERTILE.

## NOTES:

## A. SPECIFICATIONS

- 1. REPLICATION AREAS SHALL BE STAKED PRIOR TO CONSTRUCTION. NOTIFY THE BOLTON CONSERVATION COMMISSION
- FOR INSPECTION AFTER STAKING AND PRIOR TO CONSTRUCTION. ALL CONSTRUCTION AND EXCAVATED MATERIAL SHALL BE STORED OUTSIDE OF THE RESOURCE AREA. 3. PRIOR TO CONSTRUCTION CONTRACTOR SHALL PLACE SIGN CONTAINING DEP FILE NUMBER WHERE IT CAN BE SEEN
- 4. CONTRACTOR SHALL PLACE EROSION AND SEDIMENTATION CONTROL BARRIER AS SHOWN HEREON PRIOR TO CONSTRUCTION. NOTIFY BOLTON CONSERVATION COMMISSION FOR INSPECTION AFTER INSTALLATION AND PRIOR TO
- 5. CONTRACTOR SHALL NOTIFY WETLAND SPECIALIST AFTER TO STAKING AND PLACEMENT OF EROSION CONTROL
- BARRIERS. WETLAND SPECIALIST TO ESTABLISH PHOTOMETRIC REFERENCE POINTS AT THIS TIME. 6. CONTRACTOR TO EXCAVATE ALL REPLICATION AREAS PRIOR TO EXCAVATING WITHIN THE EXISTING WETLAND FILL AREAS. EXCAVATE ALL REPLICATION AREA TO 12" BELOW FINAL FINISHED GRADES AS SHOWN HEREON. DE-WATER EXCAVATIONS AS REQUIRED.
- 7. WETLAND SOIL SHALL BE TRANSLOCATED WHEN POSSIBLE. SOILS TO BE USED AT THE REPLICATION SITE SHOULD BE USED IMMEDIATELY IF POSSIBLE OR STOCKPILED FOR AS LITTLE TIME AS POSSIBLE. WHILE STOCKPILED, THE SOILS 5. DURING PLANTING AND SEEDING AND AFTER THE FIRST MONTH OF THE GROWING SEASON TO INSPECT SHOULD BE KEPT WET AND NOT BE ALLOWED TO DRY OUT. THE METHOD FOR MAINTAINING THE APPROPRIATE MOISTURE LEVEL SHOULD BE DOCUMENTED BY CONTRACTOR AND SUBMITTED TO THE PROJECT ENGINEER. CONTAMINATION OF THESE SOILS SHOULD BE PREVENTED. TRUCKS THAT HAVE PREVIOUSLY BEEN ON OTHER SITES
- SHOULD BE WASHED PRIOR TO INTRODUCTION TO THE REPLICATION SITE SO THAT MUD/DIRT WITH EXOTIC/INVASIVE SEEDS IS NOT INADVERTENTLY BROUGHT TO THE REPLICATION SITE. 8. PLACE TRANSOLCATED SOIL TO 12" DEPTH IN NEW REPLICATIONS AREAS TO FINAL FINISHED GRADES AS SHOWN
- 9. CONTRACTOR TO PROVIDE ADDITIONAL WETLAND SOIL AS REQUIRED TO ACHIEVE THE 12" MINIMUM DEPTH IN THE
- COMPOSTED ORGANIC MATERIAL. THE LOAM AND COMPOST SHOULD BE FREE OF LARGE STONES AND DEBRIS. CONTRACTOR TO FURNISH CONSERVATION COMMISSION WITH THE SOURCE OF OFF SITE SOIL ADDITIVES. 10. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE WETLAND SPECIALIST TO INSPECT THE WETLAND
- AREAS FOR THE PRESENCE OF INVASIVE SPECIES. INVASIVE SPECIES SHALL BE REMOVED PRIOR TO CONSTRUCTION. 11. CONTRACTOR TO PLACE TRANSLOCATED SOIL WITH SIMILAR DENSITY AS OBSERVED WITHIN THE EXISTING WETLAND
- 12. ALL PLANTING SHOULD OCCUR AT THE BEGINNING OR END OF THE GROWING SEASON UNLESS A WATERING PLAN IS

SUBMITTED AND APPROVED BY THE COMMISSION. FALL PLANTINGS SHOULD BE DONE BEFORE THE FIRST FROST. SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH PLANTINGS SHOWN ON PLAN. REFER TO PLANTING DETAIL FOR TREES AND SHRUBS. SEED MIXTURES SHALL BE SOWN IN ACCORDANCE WITH NURSERY SPECIFICATIONS. EXISTING TREES SHALL BE EXCAVATED AROUND IN A MANOR TO MINIMIZE ROOT DAMAGE WHERE APPLICABLE. STABILIZED CANOPY FROM EXISTING TREES WILL FURTHER ENHANCE THE SUCCESS OF NEW PLANTINGS. NEW ENGLAND WETMIX SHALL BE SPREAD THROUGHOUT THE REPLICATION AREAS IN ACCORDANCE WITH NURSERY SPECIFICATIONS. UPON COMPLETION OF PLANTINGS REPLICATION AREAS SHALL BE COVERED WITH CLEAN STRAW HAY AND WATERED.

## C. OVERSIGHT/MONITORING

PROPAGATION TECHNIQUES.

THE PROJECT SUPERVISOR OR MONITOR SHOULD BE PRESENT DURING THE MOST IMPORTANT TASKS IN REPLICATION CONSTRUCTION AS DESCRIBED BELOW.

- INSPECT SITE FLAGGING BEFORE EXCAVATION OR EROSION CONTROL INSTALLATION BEGINS. DURING EXCAVATION OF THE ALTERED AREA IF VEGETATION IS TO BE TRANSLOCATED TO THE REPLICATION AREA
- TO ENSURE SURVIVAL OF THE PLANTINGS.
- 3. BEFORE SOIL TRANSLOCATION OR ADDITION INTO THE REPLICATION AREA TO INSPECT EXCAVATED ELEVATIONS AND LIKELY POST-CONSTRUCTION GROUND WATER ELEVATIONS FOR THE REPLICATION AREA.
- 4. AFTER EACH STAGE OF GRADING WORK IS COMPLETED TO INSPECT FINISHED ELEVATIONS.
- AFTER ONE GROWING SEASON TO OBSERVE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE. AFTER TWO GROWING SEASONS TO DETERMINE VEGETATION DEVELOPMENT AND REGULATORY COMPLIANCE.
- 8. AFTER SUBSEQUENT GROWING SEASONS, IF A GREATER THAN 2-YEAR MONITORING PROGRAM IS REQUIRED.
- MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH THE BOLTON WETLAND REGULATIONS. 10. PLANTS SHALL BE REPLACED AS NECESSARY TO ENSURE A 75% SURVIVAL RATE.

11. EROSION CONTROLS SHALL BE REMOVED PRIOR TO ISSUANCE OF A CERTIFICATE OF COMPLIANCE.

- REPLICATION AREAS. SUPPLEMENTAL SOIL SHALL CONSIST OF EQUAL VOLUMES OF A GOOD QUALITY LOAM AND WELL D. EROSION CONTROL SPECIFICATIONS
  - 1. WORK SHALL BE PERFORMED DURING A DRY PERIOD TO THE MAX EXTENT POSSIBLE 2. PLACE EROSION CONTROL BARRIER (SILT FENCE ONLY AROUND REPLICATION AREAS) PRIOR TO CONSTRUCTION. NOTIFY THE BOLTON CONSERVATION COMMISSION AFTER INSTALLATION FOR INSPECTION.

SPECIAL PERMIT APPROVAL IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW \$ 250.17.B - COMMON DRIVEWAYS

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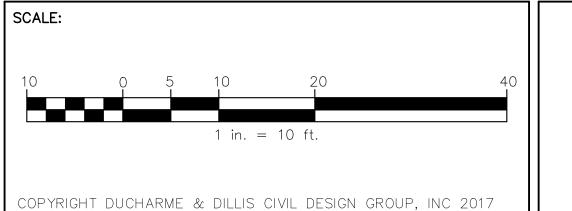
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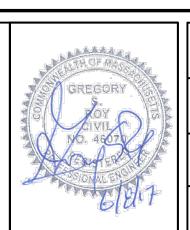
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PAUL & JENNIFER LANDERS 649 MAIN STREET BOLTON, MASSACHUSETTS

APPLICANT:

PAUL & JENNIFER LANDERS 649 MAIN STREET BOLTON, MASSACHUSETTS





DATE:	
6/8/17	
DESIGN BY:	
JPL	l
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DRAWN BY:	
JPL	
CHECKED BY:	

WETLAND CROSSING & REPLICATION PLAN 649 MAIN STREET BOLTON, MASSACHUSETTS DATE DESCRIPTION

5244 DRAWING NO. 5244-COMMON DRIVEWAY BY SHEET NO.