

PROPERTY INFORMATION:
STREET ADDRESS: QUANTION:
ASSESSORS REF.: 10
DEED REFERENCE: BO SHEET SHEET STREE PAGE 281

INDEX:

1: EXISTING CONDITIONS

(AS BUILT PLAN BY EDMOND J. BOUCHER, PLS)

1 OF 2: PROP. COMMON DRIVEWAY PERMITTING PLAN

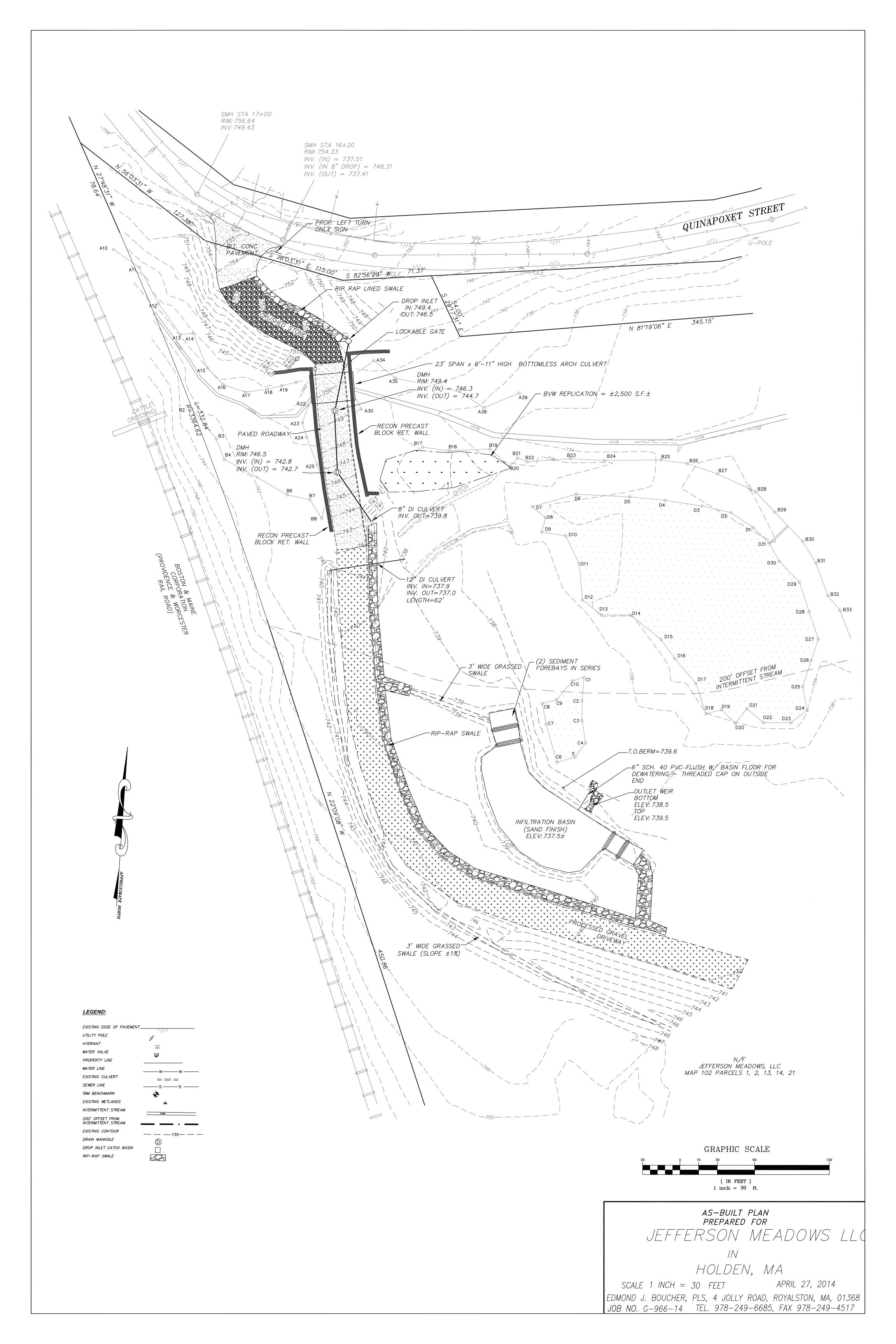
2 OF 2: EXISTING DRIVEWAY PROFILE & NOTES

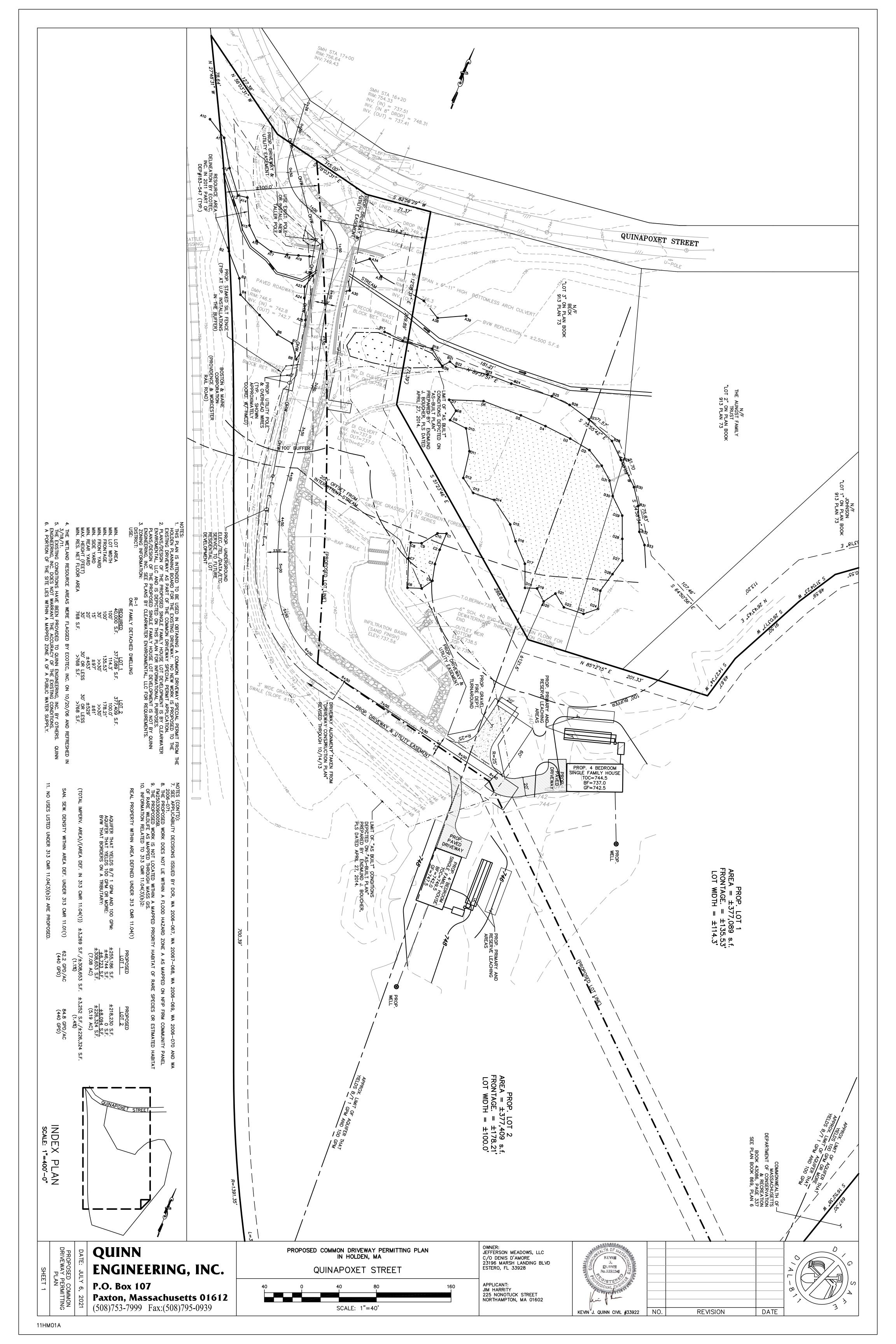
## QUINN ENGINEERING, INC.

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APPLICANT: JIM HARRITY 225 NONOTUCK STREET NORTHAMPTON, MA 01602





ALL STORMWATER BMPS SHALL BE OPERATED AND MAINTAINED IN ACCORDANCE WITH OPERATION AND MAINTENANCE PLAN. STORMWATER BMP LONG TERM OPERATION AND MAINTENANCE (O&M) PLAN: THIS LONG TERM O&M PLAN IS PROVIDED IN ACCORDANCE WITH STANDARD 9 OF THE RESPONSIBLE PARTY SHALL:

(A) MAINTAIN AN OPERATION AND MAINTENANCE LOG FOR THE LAST THREE YEARS, INCLUDING INSPECTIONS, REPAIRS, REPLACEMENT AND DISPOSAL (FOR DISPOSAL, THE LOG SHALL INDICATE THE TYPE OF MATERIAL AND THE DISPOSAL LOCATION);

(B) MAKE THIS LOG AVAILABLE TO MASSDEP AND THE CONSERVATION COMMISSION UPON REQUEST; AND

(C) ALLOW MEMBERS AND AGENTS OF THE MASSDEP AND THE CONSERVATION COMMISSION TO ENTER AND INSPECT THE PREMISES TO EVALUATE AND ENSURE THAT THE RESPONSIBILITY PARTY COMPLIES WITH THE OPERATION AND MAINTENANCE PLAN REQUIREMENTS FOR EACH BMP. STORMWATER MANAGEMENT SYSTEM OWNER:
THE STORMWATER MANAGEMENT SYSTEM WILL BE OWNED BY THE PROPERTY OWNER.
IS: IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO NOTIFY/INFORM ANY FUTURE PROPERTY OWNERS OR RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE OF THE DRAINAGE SYSTEM AND THE OPERATION AND MAINTENANCE REQUIREMENTS. RESPONSIBLE PARTY FOR OPERATION AND MAINTENANCE: RESPONSIBILITY FOR THE PROPER OPERATION AND MAINTENANCE OF STOMRWATER BMPS IN ACCORDANCE WITH THIS O&M PLAN AND WITH THE REQUIREMENTS OF THE MUNICIPALITY AND THE MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION ARE THAT OF THE PROPERTY OWNER.

THE OPERATION AND MAINTENANCE LOG SHALL INCLUDE THE FOLLOWING AT A MINIMUM:

- PERSON PERFORMING THE ACTIVITY

- DATE OF THE ACTIVITY AND WEATHER CONDITIONS

- PRECEDING WEATHER CONDITIONS

- PRECEDING WEATHER CONDITIONS

- SITE CONDITIONS (DRY, HEAVY SNOW COVER, SATURATED CONDITIONS, ETC.)

- SPECIFIC ACTIVITY (INSPECTION, CLEANING, ETC.)

- FACILITY INSPECTED

- RESULTS OF THE ACTIVITY

- OTHER INSPECTION OR MAINTENANCE REQUIRED BY THE STORMWATER POLLUTION PREVENTION PLAN (IF APPLICABLE)

THE RECORDS SHOULD BE UTILIZED TO DETERMINE WHAT FREQUENCY OF INSPECTION AND MAINTENANCE IS APPROPRIATE FOR THE SYSTEM AND WHAT TIMES OF YEAR THE ACTIVITIES MAY BE NEEDED MORE FREQUENTLY. ANY ACTIVITY PERFORMED SUBSEQUENT TO A MAJOR STORM EVENT OR PROLONGED WEATHER EPISODE SHOULD BE NOTED SO THAT THE SYSTEM PERFORMANCE MAY BE EVALUATED IN ASSOCIATION WITH THE PREVAILING CONDITIONS. **ON SITE AREAS TRIBUTARY TO THE DRAIN SYSTEM** AREAS THAT DRAIN INTO THE COLLECTION AREA FROM ON SITE MUST BE INSPECTED TO VERIFY THAT SOIL SURFACES ARE STABLE AND THAT EROSION OF SOILS INTO THE COLLECTION SYSTEM IS NOT OCCURRING. ROUTINE AND NON-ROUTINE MAINTENANCE

ELEVATION

ASPHALT SURFACES
INSPECT ASPHALT SURFACES REGULARLY. PICK UP ALL LITTER, JUNK, OR OTHER MATERIALS LEFT ON THE SURFACE. UPON DETECTING ACCUMULATION OF SAND, SEDIMENT, OR OTHER MATERIALS, THE ASPHALT SURFACE MUST BE SWEPT TO REMOVE ALL SUCH MATERIALS. SWEEPINGS SHOULB BE HANDLED IN ACCORDANCE WITH MADER POLICY #BRP-94-092. ANY MATERIAL DEPOSITS DEEMED TO BE HAZARDOUS MUST BE REMOVED AND DISPOSED OF BY A LICENSED CONTRATOR. N THE EVENT THAT EROSION OF ON SITE SOILS IS OCCURRING, THE SOILS MUST BE STABILIZED AGAINST FURTHER EROSION. PERMANENTLY FINISH THE SURFACE AGAINST EROSION BY PLACING STABLE VEGETATION SUCH AS LOAM AND GRASS SEED, OR BY ARMORING THE SURFACE AGAIN EROSION BY MTH RIP RAP OR A FILTER FABRIC BLANKET.

EDIMENT FOREBAY MAINTENANCE

EDIMENTS AND ASSOCIATED POLLUTANTS ARE REMOVED ONLY WHEN SEDIMENT FOREBAYS ARE ACTUALLY CLEANED OUT, SO REGULAR MAINTENANCE IS ESSENTIAL. FREQUENTLY REMOVING ACCUMULATED SEDIMENTS WILL MAKE IT LESS KELY THAT SEDIMENTS WILL BE RESUSPENDED. AT A MINIMUM, INSPECT SEDIMENT FOREBAYS MONTHLY AND CLEAN HEM OUT AT LEAST FOUR TIMES PER YEAR. STABILIZE THE FLOOR AND SIDEWALLS OF THE SEDIMENT FOREBAY EFORE MAKING IT OPERATIONAL, OTHERWISE THE PRACTICE WILL DISCHARGE EXCESS AMOUNTS OF SUSPENDED OWNERS. WHEN MOWING GRASSES, KEEP THE GRASS HEIGHT NO GREATER THAN 6 INCHES. SET MOWER BLADES NO OWNER THAN 3 TO 4 INCHES. CHECK FOR SIGNS OF RILLING AND GULLYING AND REPAIR AS NEEDED. AFTER REMOVING HE SEDIMENT, REPLACE ANY VEGETATION DAMAGED DURING THE CLEAN—OUT BY EITHER RESEDING OR RESODDING. HE SEEDING, INCORPORATE PRACTICES SUCH AS HYDROSEEDING WITH A TACKIFIER, BLANKET, OR SIMILAR RACTICE TO ENSURE THAT NO SCOUR OCCURS IN THE FOREBAY, WHILE THE SEEDS GERMINATE AND DEVELOP ROOTS. INSPECT SEDIMENT FOREBAYS
CLEAN SEDIMENT FOREBAYS FOUR TIMES PER YEAR AND WHEN SEDIMENT DEPTH IS BETWEEN 3 TO 6 INCHES.

INFILTRATION BASINS
INFILTRATION BASINS ARE PRONE TO CLOGGING AND FAILURE, SO IT IS IMPERATIVE TO DEVELOP AND IMPLEMENT AGGRESSIVE MAINTENANCE PLANS AND SCHEDULES. INSTALLING THE REQUIRED PRETREATMENT BMPS WILL SIGNIFICANTLY REDUCE MAINTENANCE REQUIREMENTS FOR THE BASIN. IE OPERATION AND MAINTENANCE PLAN REQUIRED BY STANDARD 9 MUST INCLUDE INSPECTIONS AND PREVENTIVE AINTENANCE AT LEAST TWICE A YEAR, AND AFTER EVERY TIME DRAINAGE DISCHARGES THROUGH THE HIGH OUTLET RIFICE. THE PLAN MUST REQUIRE INSPECTING THE PRETREATMENT BMPS IN ACCORDANCE WITH THE MINIMAL SQUIREMENTS SPECIFIED FOR THOSE PRACTICES AND AFTER EVERY MAJOR STORM EVENT. A MAJOR STORM EVENT IS SECURIFIED AS A STORM THAT IS EQUAL TO OR GREATER THAN THE 2—YEAR, 24—HOUR STORM (GENERALLY 2.9 TO 3.6 CHES IN A 24—HOUR PERIOD, DEPENDING IN GEOGRAPHIC LOCATION IN MASSACHUSETTS).

CE THE BASIN IS IN USE, INSPECT IT AFTER EVERY MAJOR STORM FOR THE FIRST FEW MONTHS TO ENSURE IT IS ABILIZED AND FUNCTIONING PROPERLY AND IF NECESSARY TAKE CORRECTIVE ACTION. NOTE HOW LONG WATER MAINS STANDING IN THE BASIN AFTER A STORM; STANDING WATER MITHIN THE BASIN 48 TO 72 HOURS AFTER A ORM INDICATES THAT THE INFILTRATION CAPACITY MAY HAVE BEEN OVERESTIMATED. IF THE PONDING IS DUE TO OGGING, IMMEDIATELY ADDRESS THE REASONS FOR THE CLOGGING (SUCH AS UPLAND SEDIMENT EROSION, EXCESSIVE MPACTION OF SOILS, OR LOW SPOTS).

HEREAFTER, INSPECT THE INFILTRATION BASIN AT LEAST TWICE PER YEAR. IMPORTANT ITEMS TO CHECK DURING THE ISPECTION INCLUDE: GNS OF DIFFERENTIAL SETTLEMENT,

REMOVE SEDIMENT FROM THE BASIN AS NECESSARY, BUT WAIT UNTIL THE FLOOR OF THE BASIN IS THOROUGHLY DRY. USE LIGHT EQUIPMENT TO REMOVE THE TOP LAYER SO AS TO NOT COMPACT THE UNDERLYING SOIL. DEEPLY TILL THE REMAINING SOIL, AND REVEGETATE AS SOON AS POSSIBLE. INSPECT AND CLEAN PRETREATMENT DEVICES ASSOCIATED WITH BASINS AT LEAST TWICE A YEAR, AND IDEALLY EVERY OTHER MONTH. AT LEAST TWICE A YEAR, MOW THE BUFFER AREA, SIDE SLOPES, AND BASIN BOTTOM. REMOVE GRASS CLIPPINGS AND ACCUMULATED ORGANIC MATTER TO PREVENT AN IMPERVIOUS ORGANIC MAT FROM FORMING. REMOVE TRASH AND DEBRIS AT THE SAME TIME. USE DEEP TILLING TO BREAK UP CLOGGED SURFACES, AND REVEGETATE IMMEDIATELY. LEAKAGE IN THE EMBANKMENTS
TREE GROWTH ON THE EMBANKMENTS
CONDITION OF RIPRAP,
SEDIMENT ACCUMULATION AND
THE HEALTH OF THE TURF.

PREVENTATIVE MAINTENANCE INSPECT TO ENSURE PROPER FUNCTIONING INSPECT AND CLEAN PRETREATMENT DEVICES EVERY OTHER MONTH RECOMMENDED AND AT LEAST MOW THE BUFFER AREA, SIDE SLOPES, AND BASIN BOTTOM IF GRASSED FLOOR; RAKE IF STONE BOTTOM; REMOVE TRASH AND DEBRIS; REMOVE GRASS CLIPPINGS AND ACCUMULATED ORGANIC MATTER TWICE A YEAR AND AFTER EVERY MAJOR STORM EVENT TWICE A YEAR

HOSQUITO PREVENTION AND CONTROL

CHECK DAMS: INSPECT PERMANENT CHECK DAMS ON THE SCHEDULE SET FORTH IN THE DAM. TAKE CORRECTIVE CHECK DAMS: 27 HOURS AFTER STORMS FOR STANDING WATER PONDING BEHIND THE DAM. TAKE CORRECTIVE ACTION IF STANDING WATER STORMS FOR STANDING WATER STORMS APPLY EVENTS.

CISTERN: APPLY US LAPACIDE IN THE CISTERN IF ANY EVIDENCE OF MOSQUITOES IS FOUND. THE PERATION AND MAINTENANCE PLAN SHALL SPECIFY HOW OFTEN LARVICIDES SHOULD BE APPLIED TO WATERS IN THE OPERATION AND MAINTENANCE PLAN SHALL SPECIFY HOW OFTEN LARVICIDES SHOULD BE APPLIED TO WATERS IN THE OPERATION AND MAINTENANCE PLAN WAS RESPONSIBLE FOR MAINTENANCE PLAN BASINS, INCLUDING LARVICIDING. WHO BASINS, WET BASINS, WET WATER QUALITY SWALES, DRY SHALL SEE THAT LARVICIDES ARE APPLIED AS RECESSARY TO THE FOLLOWING STORMWATER WETLANDS.

THE APPROPRIATE LARVICIDE LEED AND IN COMPLIANCE WITH ALL LARVICIDES ARE PAPLIED BY HELICAPTER TO PESTICIDE APPLICATION SHAND AMNITENANCE PLAN MAINTENANCE PLAN MAY BE CURRENTED. FOR EXAMPLE, BACILLUS SHAKERUS (BS), THE TIME AND METHOD OF APPLICATION SHOULD BE EVEN AND THE TIME AND METHOD OF APPLICATION SHOULD BE EVEN BE DESINED TO DEWATER BETWEEN STORMS, SUCH AS DRY EXTENDED DETENTION AND MINITENANCE METHOD OF APPLICATION SHOULD BE TENTION AND MINITENANCE METHOD OF APPLICATION SHOULD BE TENTION AND MINITENANCE METHOD OF APPLICATION AFTER WATER WHEN THE DETENTION OR INFILITATION BASIN HAS A STANDING POOL OF WATER, UNLESS A PRODUCT IS USED THAT THE DETENTION OR INFILITATION BASIN HAS A STANDING POOL OF WATER, UNLESS A PRODUCT IS USED THAT THE DETENTION OR INFILITATION AND MINITENANCE DAMINER AND THE RESPONSIBLE PARTY FOR OPERATION AND MINITENANCE METHOD OR PRODUCT THE PUBLIC FROM DAMBEDATED. WITH THE OPERATION AND MINITENANCE ACTIVITIES.

1. THE STORMWATER MAY POOL PROTUCT THE PUBLIC FROM DAMBEDATED. THE FREQUENCY AND EXTENT OF OPERATION AND MAINTENANCE ACTIVITIES.

1. THE STORM SHAPPEN OF THE TH

ASURES: AN IS PROVIDED IN ACCORDANCE WITH STANDARD 4 OF THE MA DEP STORMWATER

1. GOOD HOUSEKEEPING PRACTICES SHALL BE EMPLOYED IN HE STORMWITER STORMWITER SYSTEM AND ON SITE AREAS. THE MINIMUM HOUSEKEEPING PRACTICES AND UNITE STORMWITER STORMWITER AND ON SITE AREAS. THE MINIMUM HOUSEKEEPING PRACTICES AND WASTE SHALL BE KONTAINED IN AN ANDRET HAT MINIMUM PREVAINTS FOR STORMWITER AND SHALL BE COLLECTED MINIMUM PREVAINTS FOR STORMWITER AND SHALL BE COLLECTED MINIMUM PREVAINTS FOR STORMWITER AND SHALL BE COLLECTED MINIMUM PREVAINTS FOR MINIMUM PREVAINTS ON THE STORMWITER STORMWITER SYSTEM AND SHALL BE COLLECTED MINIMUM PRACTICES DEPORTURE OF THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE REQUIREMENTS ON THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE REQUIREMENTS ON THE COMPONENTS ON THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE FOR MINITEMANCE OF THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE REQUIREMENTS ON THE COMPONENTS OF THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE FOR MINITEMANCE OF THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE FOR MINITEMANCE OF THE STORMWITER SYSTEM ASHALL FOLLOW THE OPERATION AND MINITEMANCE FOR MINITEMANCE OF THE STORMWITER SYSTEM ASHALL FOR MINITEMANCE FOR MINITEM

QUINAPOXEET STREET PAVEMENT ORIVEWAY GRADE 1+00 BVCS: 1+31.42 BVCE: 752.566 BEGIN PAVEMENT EVCS: EVCE: BVCS: 2+67.72 BVCE: 744.412 EXISTING DRIVEWAY PROFILE

HORIZONTAL SCALE: 1"=40'-0"

VERTICAL SCALE: 1"=4'-0" BVCS: 3+68.61 BVCE: 739.904 EVCS: 3+67.72 EVCE: 739.912 4+00 EVCS: 4+38.61 EVCE: 739.904 NOTE:
CENTERLINE PROFILE & GEOMETRY
PROPOSED ON THE "DRIVEWAY
CONSTRUCTION PLAN" HAVE BEEN
IN GREYSCALE FOR REFERENCE. BVQS: 5+38.26 BVQE: 740.900 EVOS: 6+08.26 EVOE: 740.900

ENGINEERING, INC.

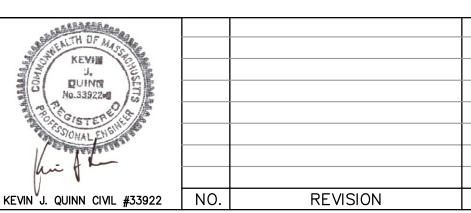
PROPOSED COMMON DRIVEWAY PERMITTING PLAN IN HOLDEN, MA QUINAPOXET STREET SCALE: AS NOTE

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DATE

**ELEVATION** 

EXISTING DRIVEWAY PROFILE & NOTES