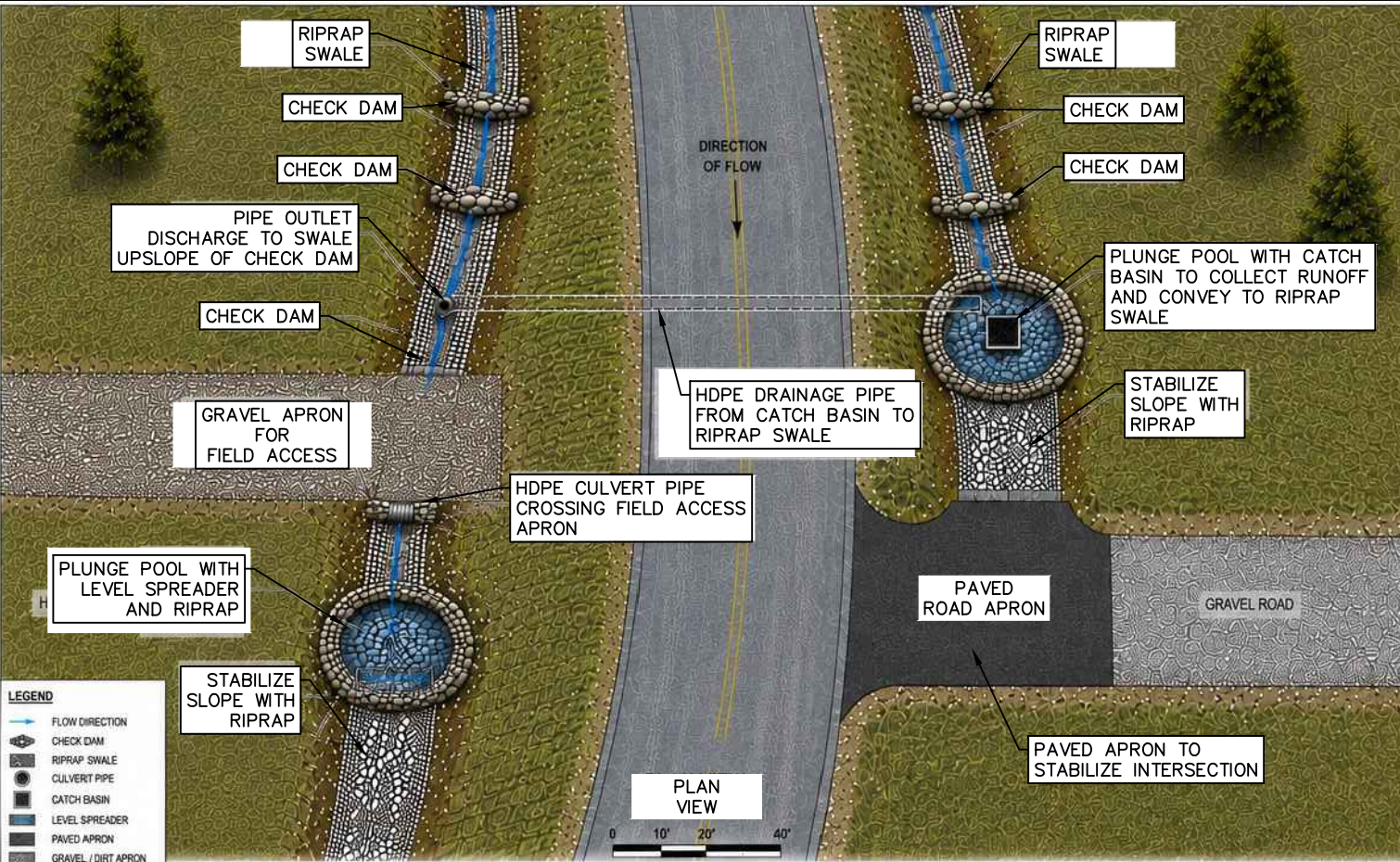




**BARNSTEAD ROAD STEEP SLOPE
CONCEPTUAL DRAINAGE IMPROVEMENTS**

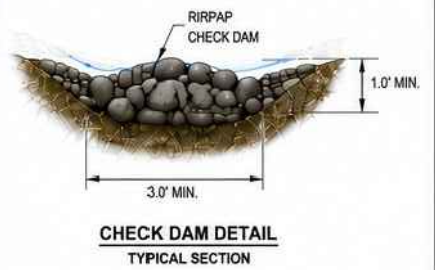
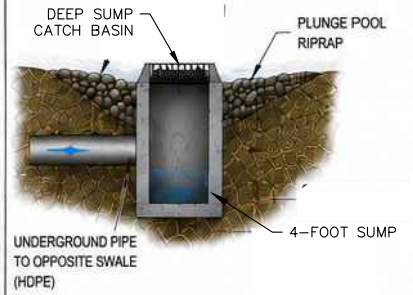
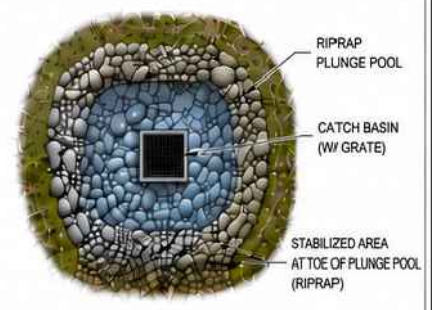
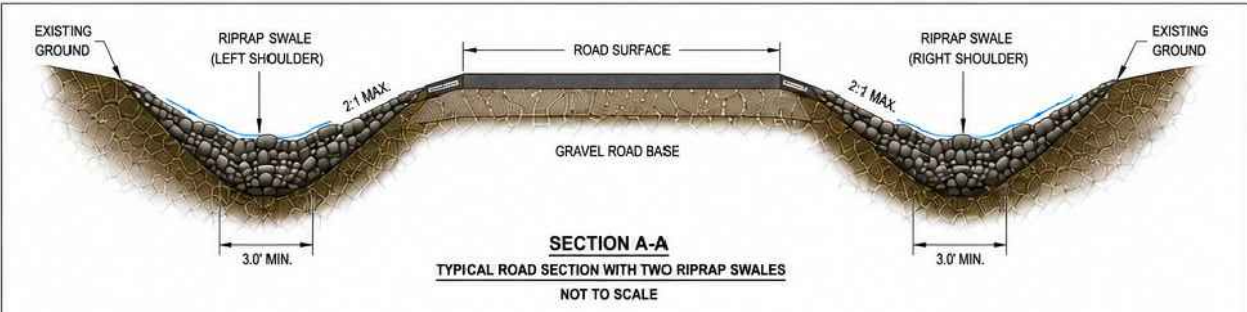
RIPRAP SWALES WITH CHECK DAMS,
PLUNGE POOLS AND CATCH BASIN

AUGUST 2026



- LEGEND**
- FLOW DIRECTION
 - ⬢ CHECK DAM
 - ▨ RIPRAP SWALE
 - ⬢ CULVERT PIPE
 - ⬢ CATCH BASIN
 - ▨ LEVEL SPREADER
 - ▨ PAVED APRON
 - ▨ GRAVEL / DIRT APRON

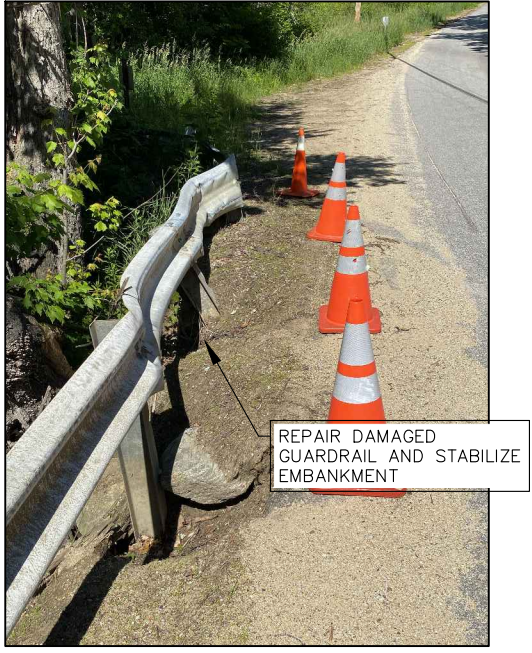
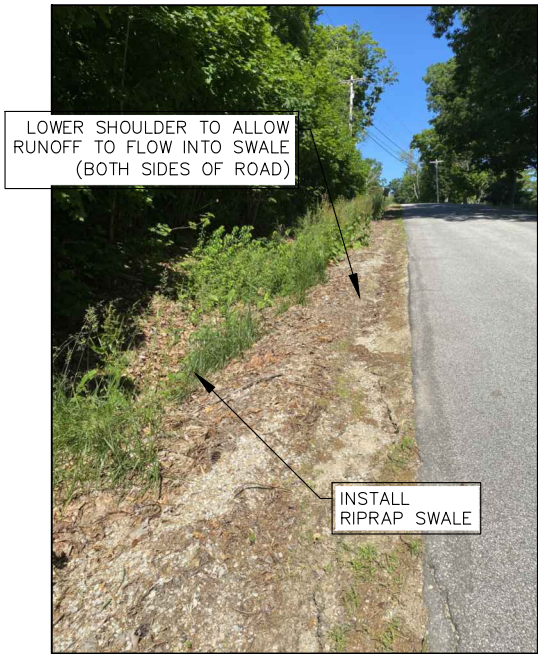
- NOTES:**
1. RIPRAP SWALE TYPICAL SECTION SEE SHEET.
 2. CHECK DAMS SPACED TO REDUCE FLOW VELOCITY AND PROMOTE INFILTRATION AND SEDIMENT CAPTURE.
 3. ALL RIPRAP SHALL BE $D_{50} \geq 6"$ MIN.
 4. CULVERT PIPE SHALL BE SMOOTH INTERIOR HDPE. MINIMUM DIAMETER 15 INCH.

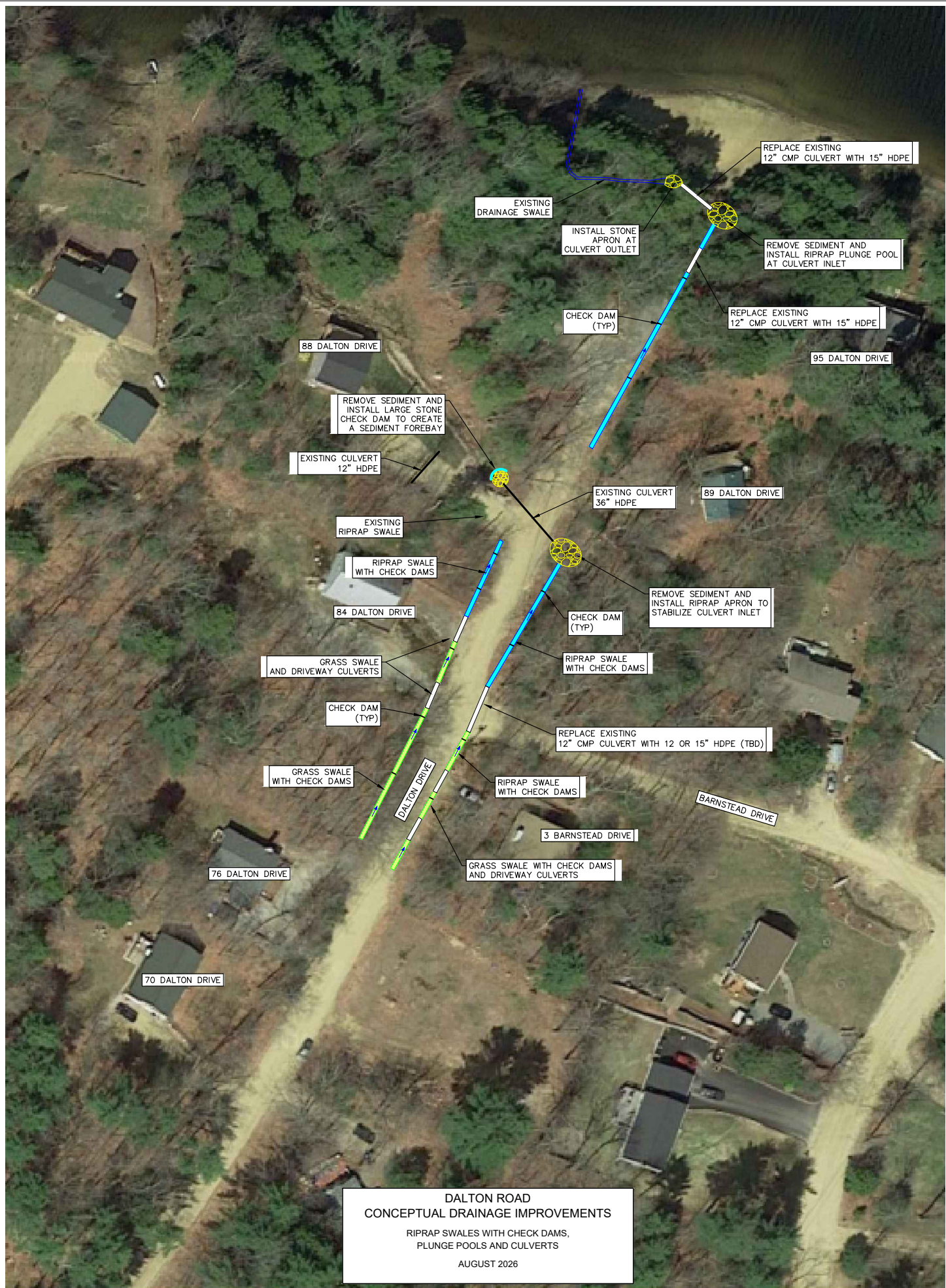


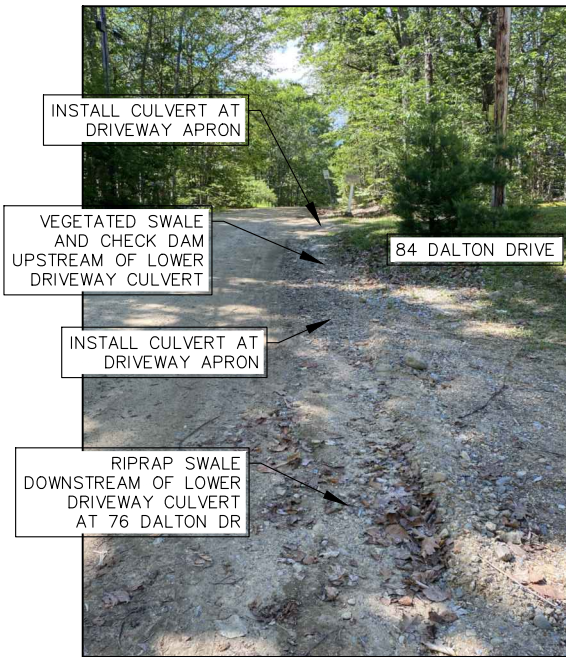
BARNSTEAD ROAD STEEP SLOPE CONCEPTUAL DRAINAGE IMPROVEMENTS

RIPRAP SWALES WITH CHECK DAMS, PLUNGE POOLS AND CATCH BASIN

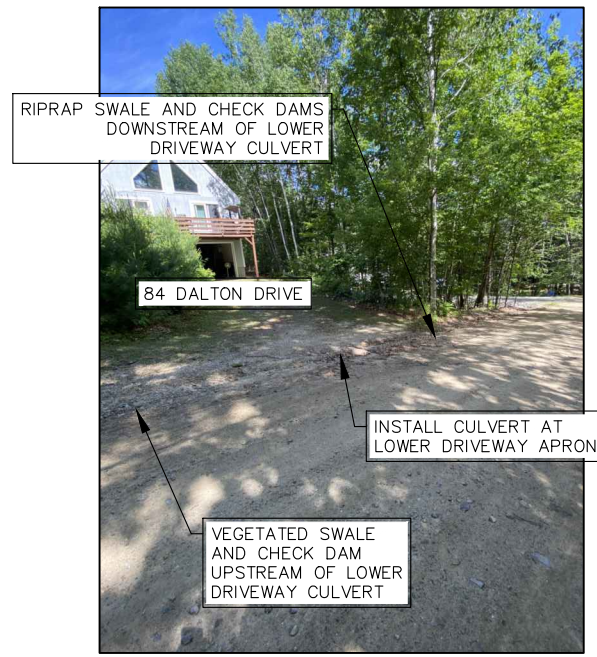
AUGUST 2026



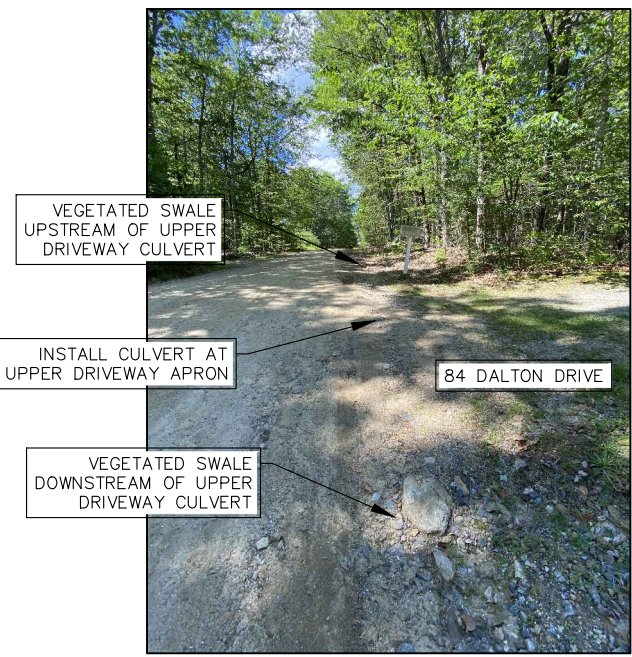




**DALTON DRIVE DRAINAGE SWALE
(WEST SIDE OF ROAD)**



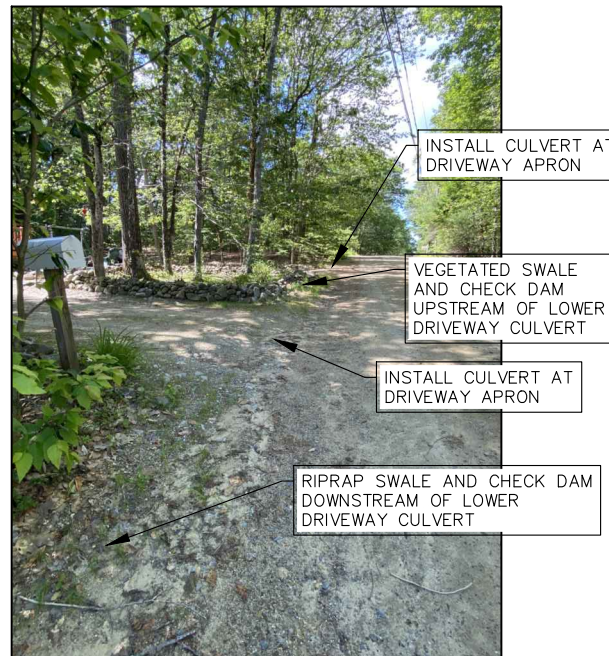
**DALTON DRIVE DRAINAGE SWALE
(WEST SIDE OF ROAD)**



**DALTON DRIVE DRAINAGE SWALE
(WEST SIDE OF ROAD)**



**DALTON DRIVE DRAINAGE SWALE
(WEST SIDE OF ROAD)**



**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



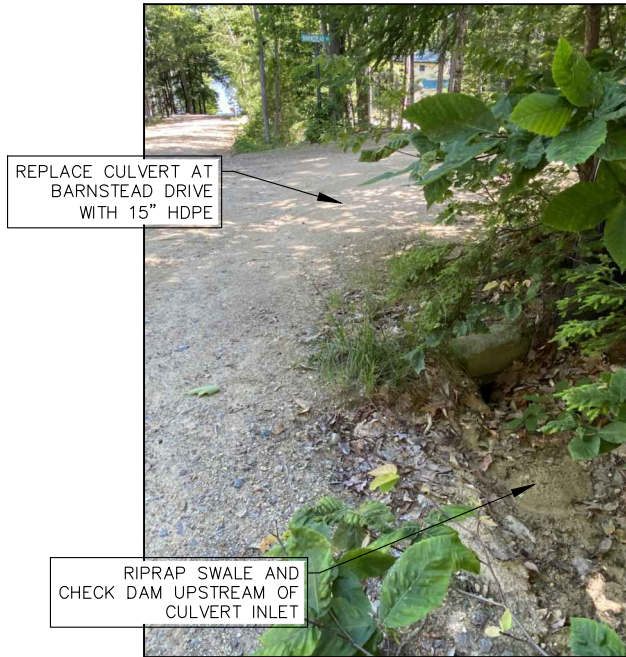
**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



REPLACE CULVERT AT
BARNSTEAD DRIVE
WITH 15" HDPE

RIPRAP APRON AND
SWALE DOWNSTREAM
OF CULVERT

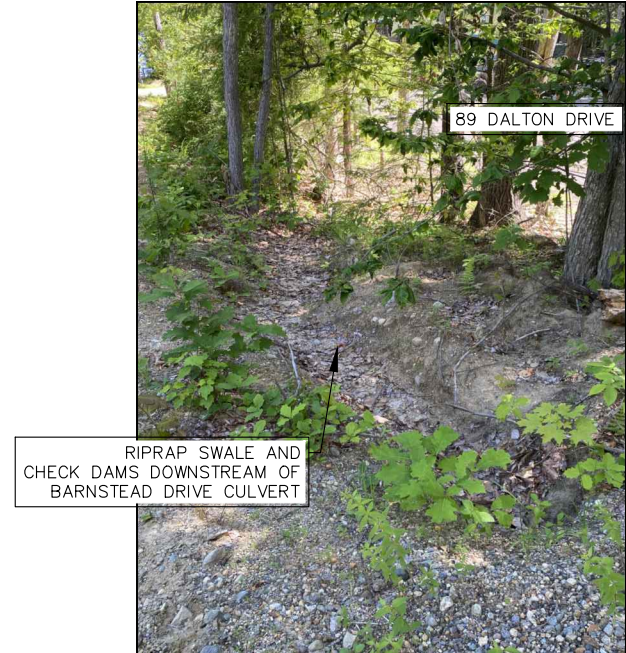
**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



REPLACE CULVERT AT
BARNSTEAD DRIVE
WITH 15" HDPE

RIPRAP SWALE AND
CHECK DAM UPSTREAM OF
CULVERT INLET

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



89 DALTON DRIVE

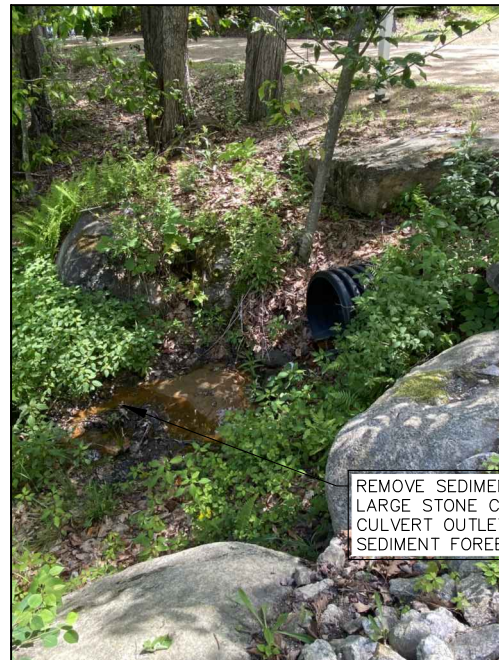
RIPRAP SWALE AND
CHECK DAMS DOWNSTREAM OF
BARNSTEAD DRIVE CULVERT

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



REMOVE SEDIMENT AND
INSTALL RIPRAP APRON TO
STABILIZE CULVERT INLET

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



REMOVE SEDIMENT AND INSTALL
LARGE STONE CHECK DAM AT
CULVERT OUTLET TO CREATE A
SEDIMENT FOREBAY

**DALTON DRIVE DRAINAGE SWALE
(WEST SIDE OF ROAD)**



89 DALTON DRIVE

RIPRAP SWALE AND CHECK DAMS
DOWNSTREAM OF DRIVEWAY FOR
89 DALTON DR

CHECK DAM UPSTREAM OF
DRIVEWAY CULVERT INLET FOR
95 DALTON DR

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



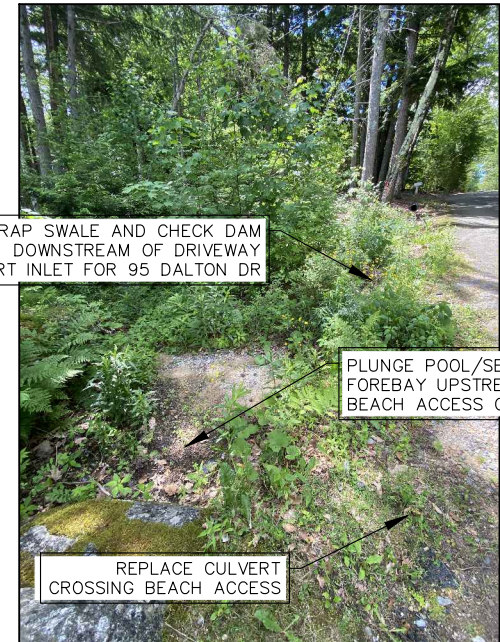
95 DALTON DRIVE

BEACH
ENTRANCE

REPLACE DRIVEWAY
WITH 15" HDPE

RIPRAP SWALE AND CHECK
DAM UPSTREAM OF DRIVEWAY
CULVERT INLET FOR
95 DALTON DR

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



RIPRAP SWALE AND CHECK DAM
DOWNSTREAM OF DRIVEWAY
CULVERT INLET FOR 95 DALTON DR

PLUNGE POOL/SEDIMENT
FOREBAY UPSTREAM OF
BEACH ACCESS CULVERT

REPLACE CULVERT
CROSSING BEACH ACCESS

**DALTON DRIVE DRAINAGE SWALE
(EAST SIDE OF ROAD)**



REPLACE CULVERT
CROSSING BEACH ACCESS

REMOVE SEDIMENT AND BUILD
PLUNGE POOL/SEDIMENT FOREBAY
UPSTREAM OF BEACH ACCESS CULVERT

**DALTON DRIVE DRAINAGE SWALE
(AT BEACH ENTRANCE)**

REPLACE DEAD TREE

INSTALL SPLIT-RAIL FENCE
TO DISCOURAGE ACCESS
FROM PARKING LOT AND
PROTECT EMBANKMENT

RESTORE VEGETATION AND
STABILIZE EMBANKMENT WITH
NATIVE PLANTS AND SEED (TBD)

EXISTING GRAVEL
BOAT LAUNCH

CREATE ACCESS
PATH FROM PARKING
LOT TO BOAT RAMP

**BOAT RAMP (RTE 28)
CONCEPTUAL DRAINAGE IMPROVEMENTS**

RESTORE VEGETATED BUFFER, FORMALIZE BOAT RAMP
ACCESS AND INSTALL FENCE TO PROTECT EMBANKMENT

AUGUST 2026

SUNCOOK VALLEY ROAD (RTE 28)

PLANT HARDWOOD SHADE
TREE AT LOCATION OF
EXISTING DEAD TREE

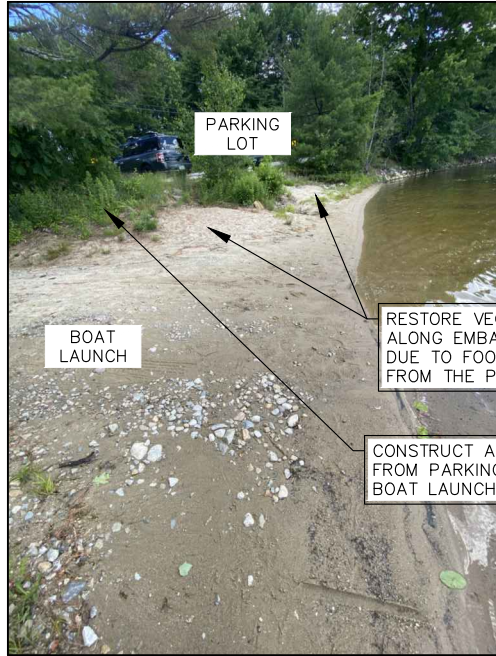
FORMALIZED ACCESS
PATH FROM PARKING LOT
TO BOAT RAMP

STABILIZED
VEGETATED BUFFER
WITH
NATIVE PLANTS AND SEED

INSTALL SPLIT RAIL FENCE
TO DISCOURAGE FOOT TRAFFIC
IN VEGETATED BUFFER AREAS

BOAT RAMP (RTE 28)
CONCEPTUAL DRAINAGE IMPROVEMENTS
RESTORE VEGETATED BUFFER, FORMALIZE BOAT RAMP
ACCESS AND INSTALL FENCE TO PROTECT EMBANKMENT

AUGUST 2026

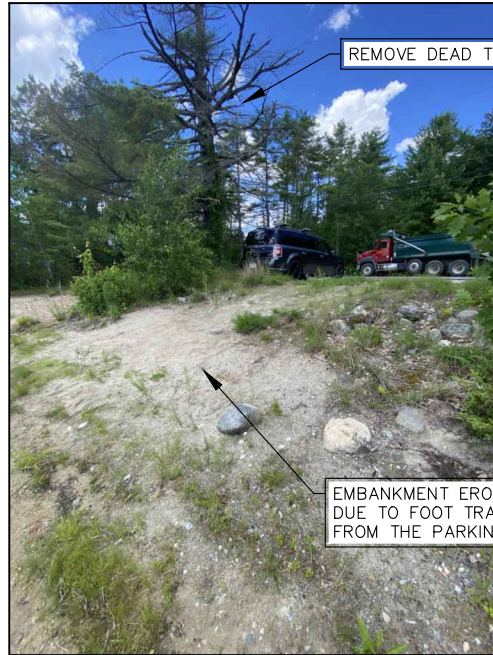


BOAT
LAUNCH

PARKING
LOT

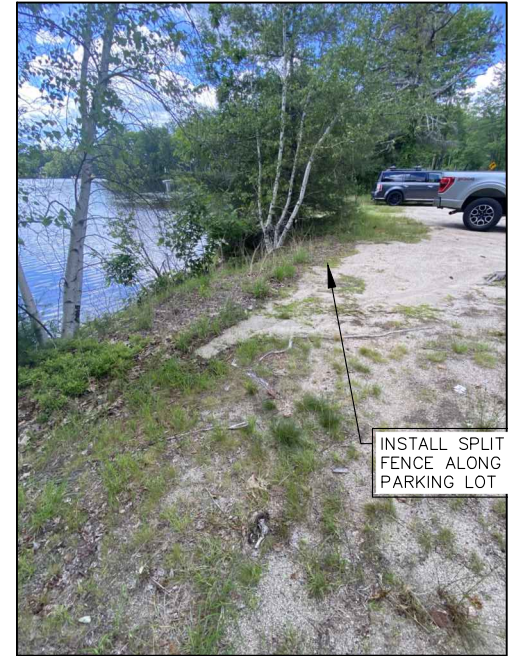
RESTORE VEGETATED BUFFER
ALONG EMBANKMENT EROSION
DUE TO FOOT TRAFFIC
FROM THE PARKING LOT

CONSTRUCT ACCESS PATH
FROM PARKING LOT TO
BOAT LAUNCH



REMOVE DEAD TREE

EMBANKMENT EROSION
DUE TO FOOT TRAFFIC
FROM THE PARKING LOT



INSTALL SPLIT RAIL
FENCE ALONG EDGE OF
PARKING LOT

**BOAT RAMP (RTE 28)
CONCEPTUAL DRAINAGE IMPROVEMENTS**

RESTORE VEGETATED BUFFER, FORMALIZE BOAT RAMP
ACCESS AND INSTALL FENCE TO PROTECT EMBANKMENT

AUGUST 2026