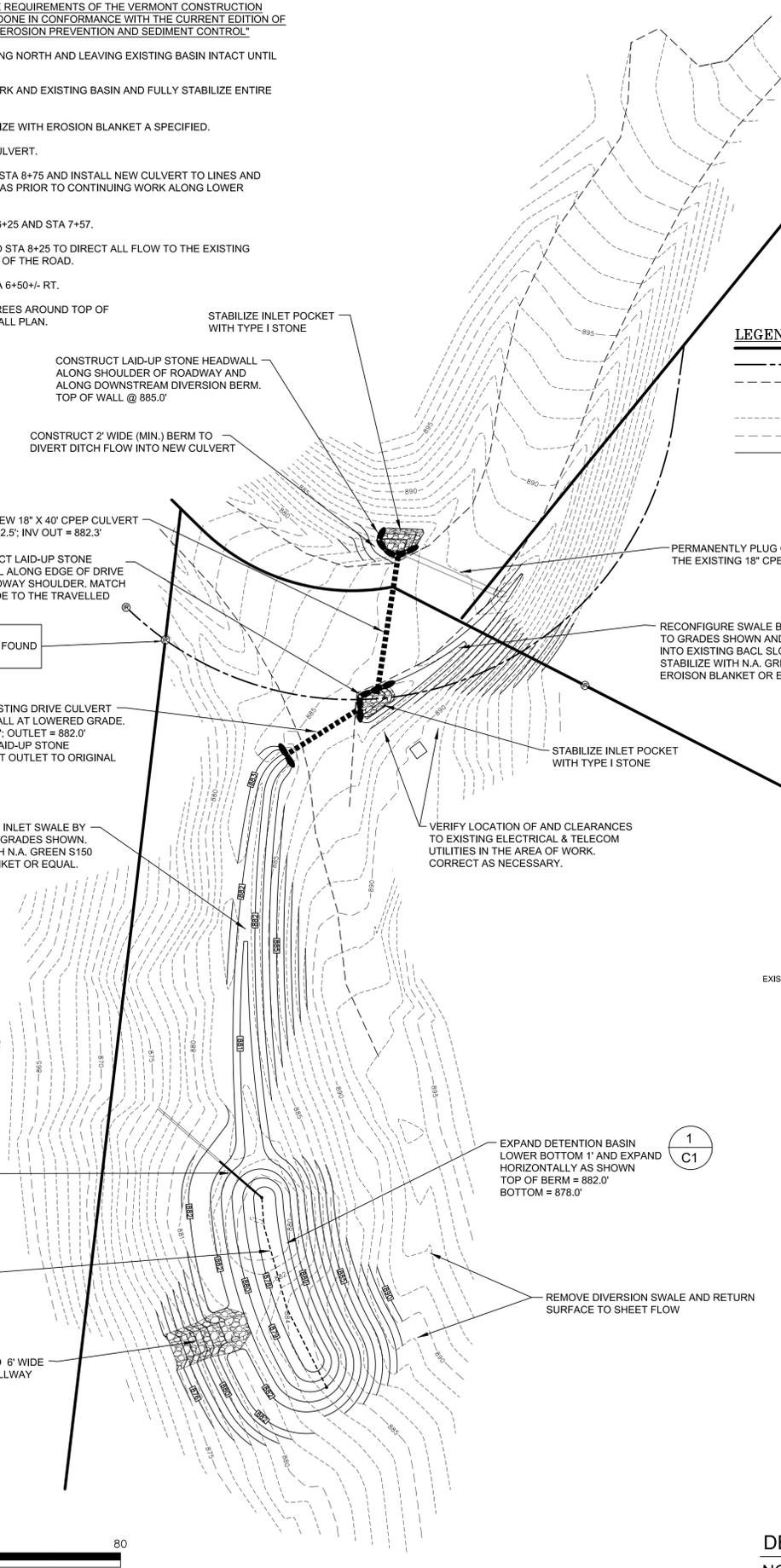


**CONSTRUCTION SEQUENCE:**

NOTE: ALL PROPOSED WORK IS SUBJECT TO THE REQUIREMENTS OF THE VERMONT CONSTRUCTION GENERAL PERMIT (3-9020). ALL WORK SHALL BE DONE IN CONFORMANCE WITH THE CURRENT EDITION OF THE VERMONT "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."

- BEGIN BASIN EXPANSION AT SOUTH END MOVING NORTH AND LEAVING EXISTING BASIN INTACT UNTIL NEW WORK IS TEMPORARILY STABILIZED.
- BREACH REMAINING BERM BETWEEN NEW WORK AND EXISTING BASIN AND FULLY STABILIZE ENTIRE BASIN PRIOR TO CONTINUING WORK.
- RESHAPE SWALE BETWEEN BASIN AND STABILIZE WITH EROSION BLANKET A SPECIFIED.
- EXCAVATE AND RELOCATE EXISTING DRIVE CULVERT.
- REMOVE EXISTING ROAD CROSS CULVERT AT STA 8+75 AND INSTALL NEW CULVERT TO LINES AND GRADES SHOWN. STABILIZE ALL DISTURBED AREAS PRIOR TO CONTINUING WORK ALONG LOWER PORTIONS OF THE ROAD.
- REMOVE EXISTING CROSS CULVERTS AT STA 6+25 AND STA 7+57.
- SUPERELEVATE ROAD FROM STATION 4+75 TO STA 8+25 TO DIRECT ALL FLOW TO THE EXISTING STONE-LINED DITCH ALONG THE EASTERLY SIDE OF THE ROAD.
- REPAIR ERODED POCKET AT TOP OF BANK STA 6+50+/- RT.
- PLANT FIVE (5) 1'-2' TALL NORWAY SPRUCE TREES AROUND TOP OF SLOPE OPPOSITE STA 6+50 AS SHOWN ON OVERALL PLAN.



- LEGEND:**
- APPROX. PROPERTY LINE
  - - - APPROX. EDGE OF R.O.W.
  - - - EDGE OF GRAVEL
  - ⊙ IRON ROD FOUND (DIA., HT.)
  - - - EXISTING 1-FOOT CONTOUR
  - - - EXISTING 5-FOOT CONTOUR
  - FINISH GRADE CONTOUR

STABILIZE INLET POCKET WITH TYPE I STONE

CONSTRUCT LAID-UP STONE HEADWALL ALONG SHOULDER OF ROADWAY AND ALONG DOWNSTREAM DIVERSION BERM. TOP OF WALL @ 885.0'

CONSTRUCT 2' WIDE (MIN.) BERM TO DIVERT DITCH FLOW INTO NEW CULVERT

INSTALL NEW 18" X 40' CPEP CULVERT INV IN = 882.5'; INV OUT = 882.3'

CONSTRUCT LAID-UP STONE HEADWALL ALONG EDGE OF DRIVE AND ROADWAY SHOULDER. MATCH TOP GRADE TO THE TRAVELLED SURFACE.

PROJECT BENCHMARK TOP OF CAP ON #5 REBAR FOUND ELEV = 879.7' (ASSUMED)

REMOVE EXISTING DRIVE CULVERT AND REINSTALL AT LOWERED GRADE. INLET = 882.2'; OUTLET = 882.0' REINSTALL LAID-UP STONE HEADWALL AT OUTLET TO ORIGINAL TOP GRADE.

RECONFIGURE INLET SWALE BY LOWERING TO GRADES SHOWN. STABILIZE WITH N.A. GREEN S150 EROSION BLANKET OR EQUAL.

VERIFY LOCATION OF AND CLEARANCES TO EXISTING ELECTRICAL & TELECOM UTILITIES IN THE AREA OF WORK. CORRECT AS NECESSARY.

PERMANENTLY PLUG OR REMOVE THE EXISTING 18" CPEP CULVERT

RECONFIGURE SWALE BY LOWERING TO GRADES SHOWN AND MATCHING INTO EXISTING BACK SLOPE. STABILIZE WITH N.A. GREEN S150 EROSION BLANKET OR EQUAL.

STABILIZE INLET POCKET WITH TYPE I STONE

EXPAND DETENTION BASIN LOWER BOTTOM 1' AND EXPAND HORIZONTALLY AS SHOWN TOP OF BERM = 882.0' BOTTOM = 878.0'

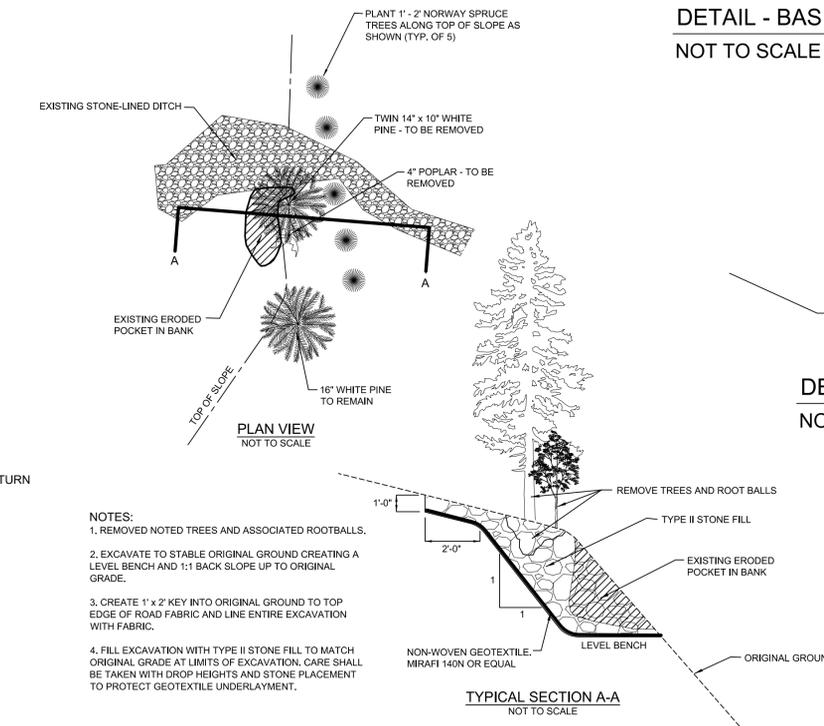
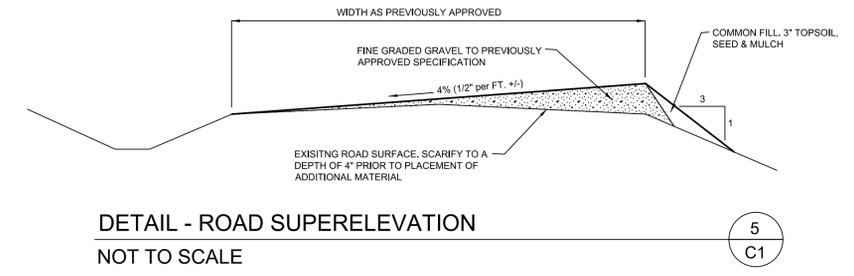
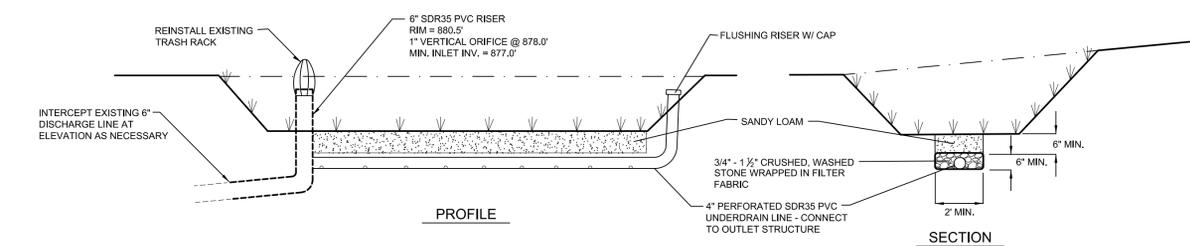
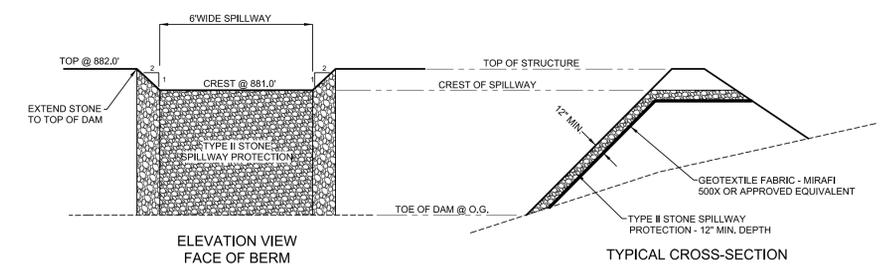
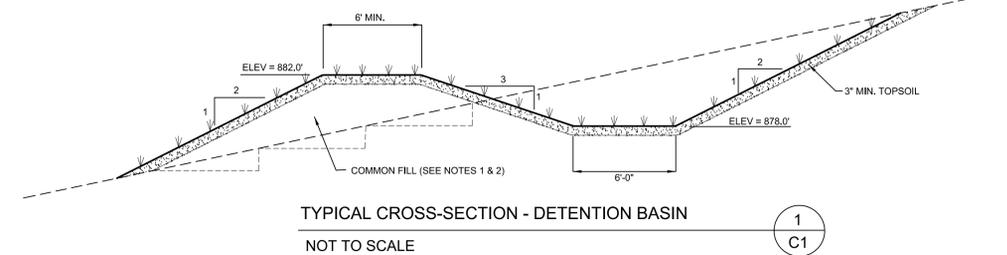
INTERCEPT EXISTING 6" PVC DISCHARGE LINE AND RELAY TO ACCOMMODATE LOWERED BASIN BOTTOM. REINSTALL RISER WITH RIM @ 880.5' AND 1" VERTICAL ORIFICE @ 878.0' AT CENTERLINE OF BASIN

INSTALL 4" PERFORATED SDR35 PVC UNDERDRAIN

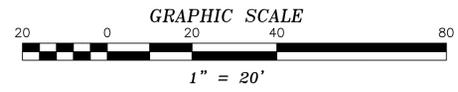
INSTALL REVISED 6' WIDE EMERGENCY SPILLWAY CREST @ 881.0'

REMOVE DIVERSION SWALE AND RETURN SURFACE TO SHEET FLOW

- NOTES:**
- STRIP ALL ORGANIC SOIL AND MATERIAL (ROOTS, DUFF, ETC) FROM AREA OF BERM PRIOR TO PLACEMENT OF FILL.
  - COMMON FILL SHALL CONSIST OF 6" MINUS SUITABLE NATIVE SUBSOIL. FILL SHALL BE PLACED ON LEVEL BENCHES CUT INTO ORIGINAL GROUND IN LIFTS OF 12" TO BEYOND THE LIMITS OF FINAL GRADE, COMPACTED IN PLACE, THEN CUT TO FINAL GRADE.
  - ALL DISTURBED SURFACES SHALL BE STABILIZED WITH N.A. GREEN S150 EROSION BLANKET INSTALLED PER MANUFACTURERS INSTRUCTIONS.



- NOTES:**
- REMOVED NOTED TREES AND ASSOCIATED ROOTBALLS.
  - EXCAVATE TO STABLE ORIGINAL GROUND CREATING A LEVEL BENCH AND 1:1 BACK SLOPE UP TO ORIGINAL GRADE.
  - CREATE 1' x 2' KEY INTO ORIGINAL GROUND TO TOP EDGE OF ROAD FABRIC AND LINE ENTIRE EXCAVATION WITH FABRIC.
  - FILL EXCAVATION WITH TYPE II STONE FILL TO MATCH ORIGINAL GRADE AT LIMITS OF EXCAVATION. CARE SHALL BE TAKEN WITH DROP HEIGHTS AND STONE PLACEMENT TO PROTECT GEOTEXTILE UNDERLAYMENT.



REVISED: 6/8/17 - DETAIL 4; PLANTINGS ADDED, GEOTEXTILE CHANGED - KJ  
REVISED: 5/19/17 - CONSTRUCTION SEQUENCE; DETAILS 4 & 5 ADDED - KJ



PROPOSED STORMWATER IMPROVEMENTS  
PINEY GROVE LANE  
UNDERHILL  
VERMONT

SCALE: 1" = 20' DATE: 9/20/16 PROJ.# 2016-091 DWG.# 091A  
DRAWN BY: KJ CHECKED BY: AT FB/PG. EFB SHEET C1

**WATERSHED**  
CONSULTING ASSOCIATES, LLC  
PO BOX 4413, BURLINGTON, VT (802)497-2367