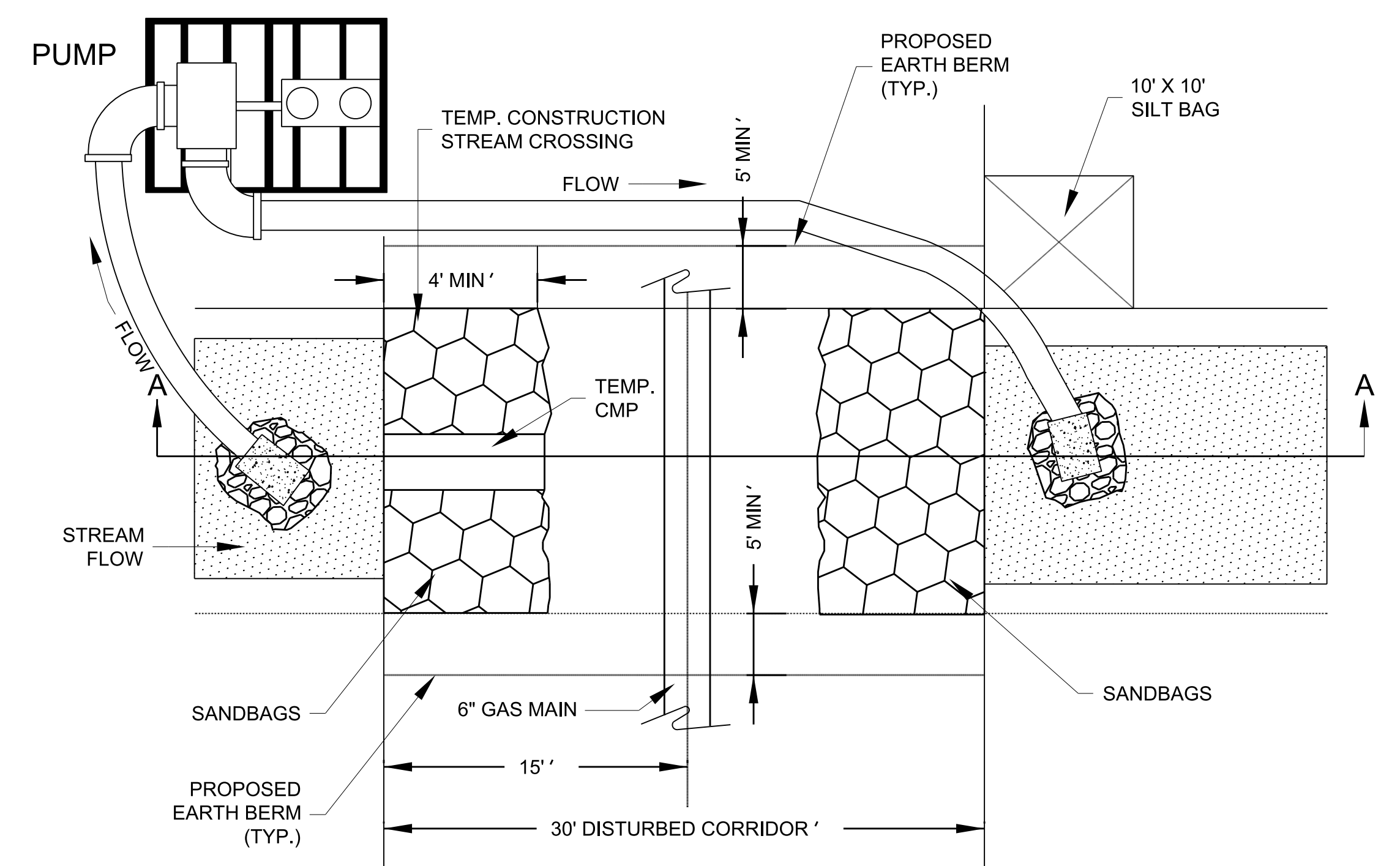


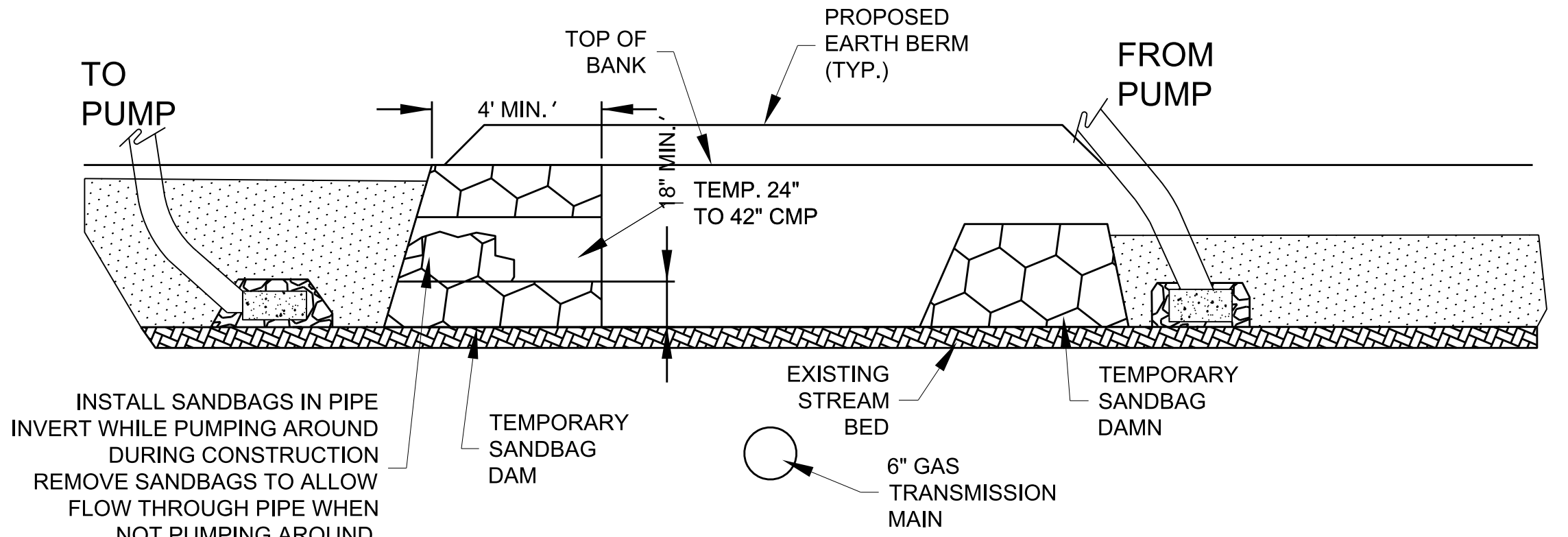
5/14/99

PROJECT REFERENCE NO. R-2915A	SHEET NO. UC-3A
DESIGNED BY: SAG	
DRAWN BY: SAG	
CHECKED BY: KCZ	
APPROVED BY: KCZ	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
UTILITY CONSTRUCTION PLANS ONLY	

UTILITY CONSTRUCTION



PLAN



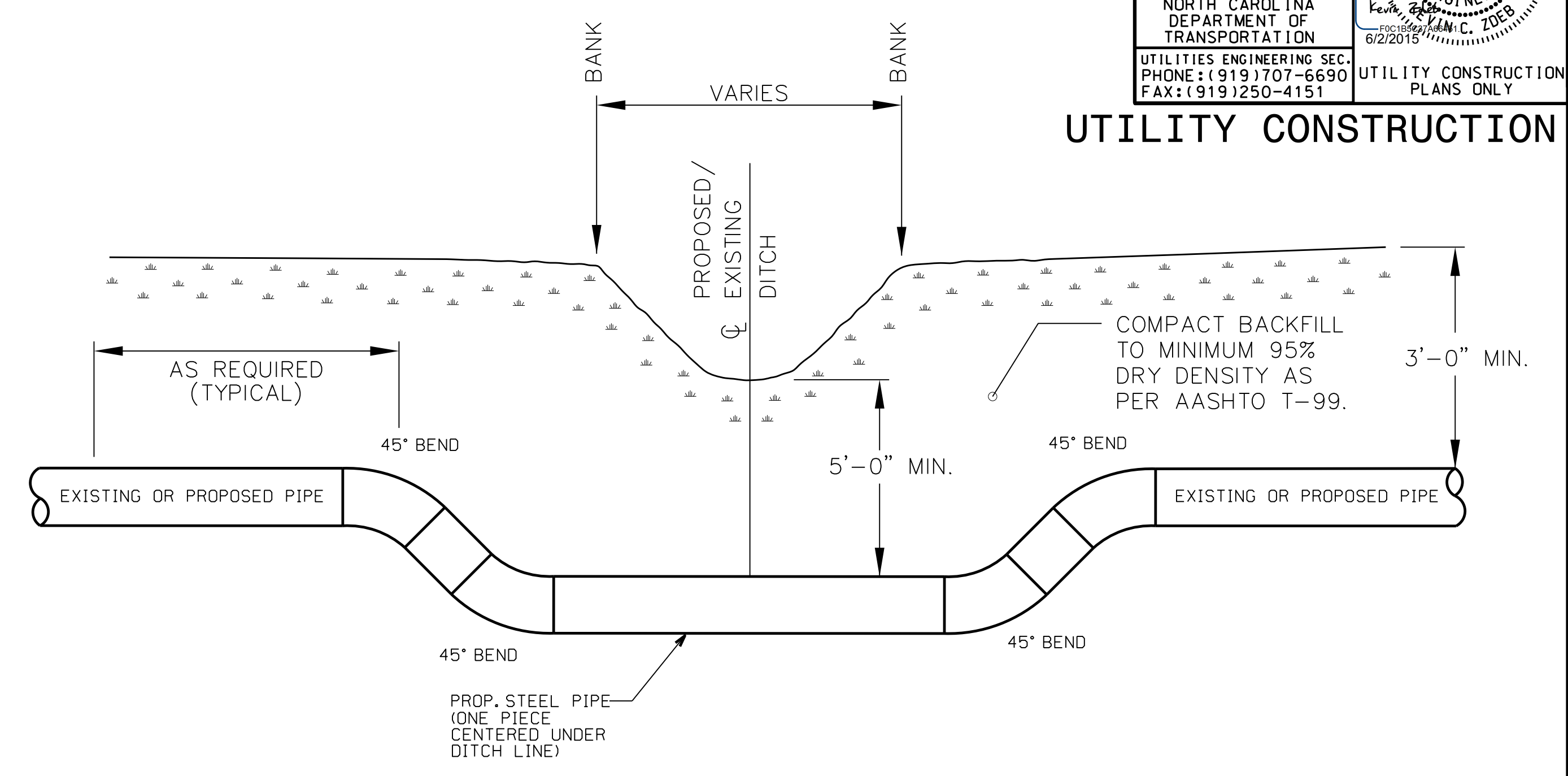
NOTES:

1. PROVIDE BYPASS PUMPING EQUIPMENT OF SUFFICIENT CAPACITY TO HANDLE THE BASE FLOW OF THE STREAM.
2. PROVIDE CLASS B RIP RAP PADS WITH GEOTEXTILE FABRIC UNDERLINER FOR PUMP INTAKE AND DISCHARGE LINES TO PREVENT STREAM BED SCOUR.
3. EFFLUENT FROM DEWATERING BETWEEN COFFER DAMS SHALL BE PUMPED TO A SILT BAG AS SHOWN ON THE DETAIL, AND NOT DIRECTLY TO THE STREAM.
4. THE FLOW THRU PIPE(S) SHALL BE THE SAME SIZE AND NUMBER AS SHOWN FOR THE TEMPORARY STREAM CROSSINGS.

CONST. SEQUENCE FOR BYPASS PUMPING

1. INSTALL PUMP AND LINE TO PUMPED FROM AREA UPSTREAM OF TEMPORARY STREAM CROSSING TO AREA DOWNSTREAM OF CONSTRUCTION AREA. BEGIN PUMPING AND CONTINUE PUMPING WHILE WORKING WITHIN THE STREAM.
2. INSTALL UPSTREAM COFFER DAM AND TEMPORARY CMP. COVER PIPE INLET WITH FABRIC AND SANDBAGS AS SHOWN IN DETAIL WHILE WORKING IN THE STREAM. ALLOW STREAM FLOW THROUGH CMP WHEN NOT WORKING WITHIN THE STREAM.
3. INSTALL DOWNSTREAM TEMPORARY COFFER DAM TO PREVENT BACKFLOW INTO CONSTRUCTION AREA.
4. INSTALL PROPOSED EARTH BERM ALONG TOP OF BANK ON EACH SIDE OF THE CONSTRUCTION AREA.
5. UPON CONSTRUCTION COMPLETION REMOVE COFFER DAMS, PIPE AND OTHER TEMPORARY MEASURES AND INSTALL TEMPORARY STREAM CROSSING IF NEEDED FOR CONSTRUCTION ACCESS TO OTHER SECTIONS OF THE PROJECT. IF NOT NEEDED, PROCEED WITH STREAM BANK RESTORATION. REFER TO NCDOT EROSION AND SEDIMENT CONTROL PLANS FOR STREAMBANK RESTORATION DETAILS.
6. UPON STABILIZATION OF CLEARED AREAS, REMOVE TEMPORARY EARTH BERMS.

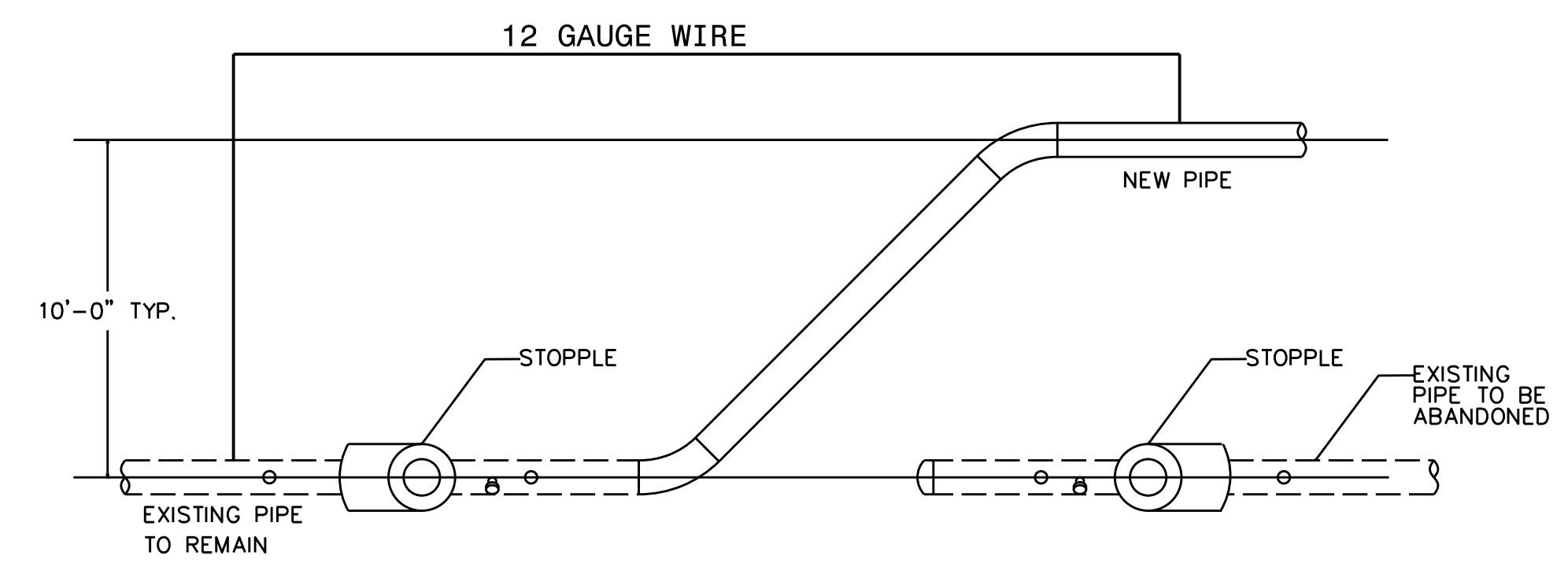
1
-
TEMPORARY STREAM PUMP AROUND
NTS



CROSS SECTION

2
-
GAS LINE UNDER DITCH/STREAM CROSSING
NTS

NOTE:
BENDS SHALL BE INSTALLED AS NEEDED DEPENDING ON EXISTING/FINAL GRADE AND PROPOSED PROFILE OF GAS MAIN.



NOTE:
1. CONNECTIONS TO PIPE SHALL BE MADE WITH CAD WELD AND WRAPPED AFTERWARDS TO MAINTAIN CP CONTINUITY.

3
-
JUMPER DETAIL FOR TIE-INS
NTS