

**COVER/STOP LOG STORAGE NOTES:**

- BOTH PADLOCKS FOR ACCESS COVER AND STOP LOG STORAGE TUBE SHALL BE KEYED ALIKE. FOUR KEYS ARE TO BE SUPPLIED UPON PROJECT COMPLETION.
- PROVIDE 24" GRATE AND COLLAR (AGRI DRAIN GR24 GRATE AND GRC24 COLLAR OR APPROVED EQUAL) FOR STOP LOG STORAGE.
- STOP LOGS ARE TO BE PLACED AFTER SEEDING IS COMPLETE TO AN ELEVATION 1.5 FEET BELOW NORMAL POOL ELEVATION.
- STOP LOGS NOT USED ARE TO BE PLACED IN THE STOP LOG STORAGE UNIT.

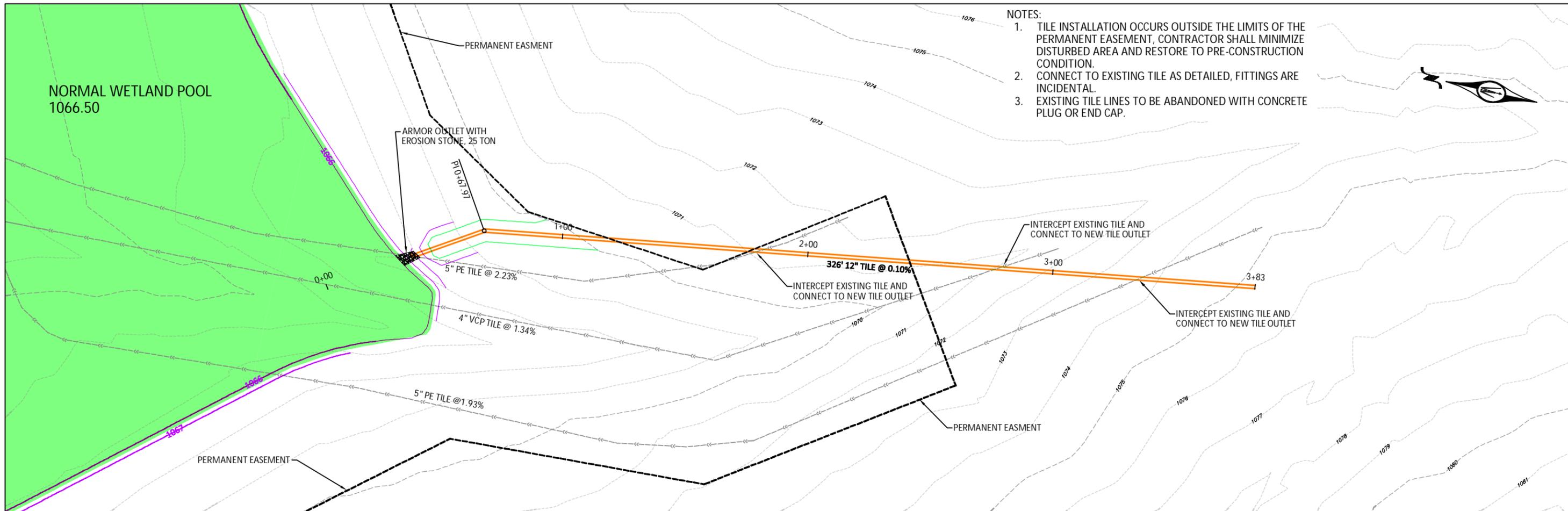
**STOP LOG CHANNEL NOTES:**

- ALL STEEL SHALL BE FY=36 KSI.
- ANCHORS SHALL BE STAINLESS STEEL FURNISHED W/ STAINLESS STEEL NUTS, WASHERS AND LOCK WASHERS.
- STOP LOG CHANNEL SHALL BE FURNISHED AS ONE CONTINUOUS PIECE W/CONTINUOUS WELDS.
- ALL STEEL STOP LOG CHANNEL COMPONENTS ARE TO BE GALVANIZED AFTER WELDING AND DRILLING IS COMPLETE.
- CONTRACTOR IS TO APPLY SEALANT VERY GENEROUSLY TO BACKSIDE OF STOP LOG CHANNEL TO ENSURE WATERTIGHT SEAL TO STRUCTURE. SEALANT SHALL BE SIKA 30 YEAR INDUSTRIAL CAULK IN LIMESTONE GREY OR APPROVED EQUIVALENT.

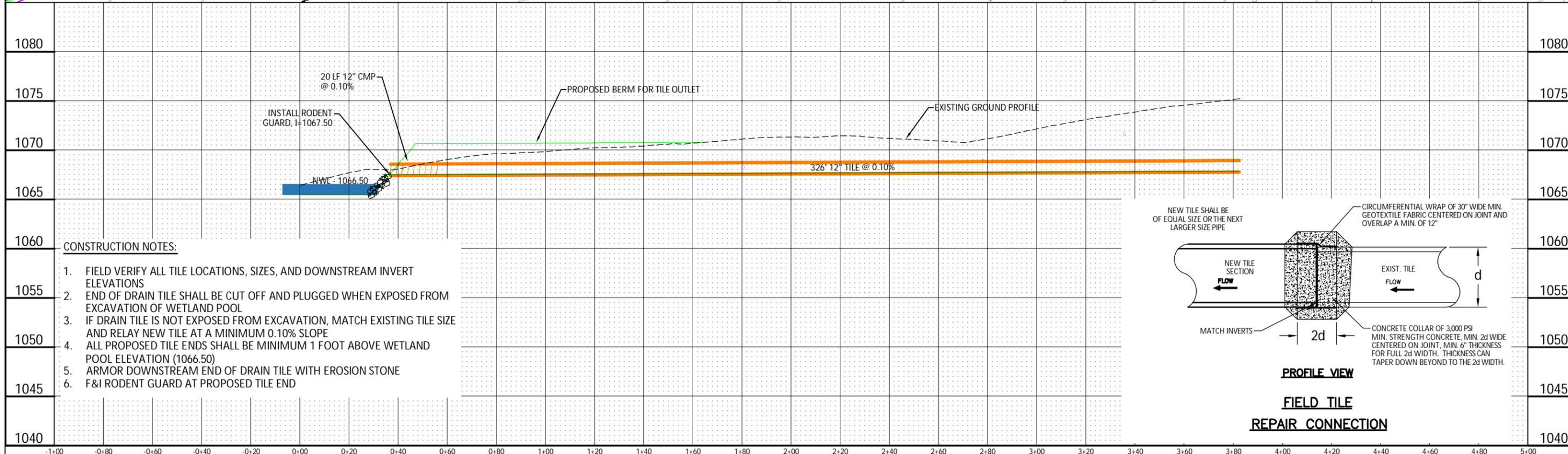
**WATER CONTROL STRUCTURE NOTES:**

- STRUCTURE SHOP DRAWINGS ARE REQUIRED FOR ENGINEER'S REVIEW AND APPROVAL BEFORE FABRICATION OF WATER CONTROL STRUCTURE.
- STOP LOG CHANNEL IS TO BE ANCHORED TO THE WALLS AND FLOOR PRIOR TO PLACING CONCRETE INVERT.
- A CONCRETE INVERT IS TO BE INSTALLED AFTER STOP LOG CHANNEL IS INSTALLED. THE BOTTOM STOP LOG IS TO BE CAST INTO THE INVERT WITH THREE HALF INCH DIA. "J BOLTS" FASTENED TO THE BOTTOM STOP LOG. NO LIFTING HOLES ARE REQUIRED FOR THIS BOTTOM LOG.
- ALL SECTIONS OF THE STRUCTURE ARE TO HAVE MASTIC APPLIED TO THE JOINTS..
- PLACE BASE OF STRUCTURE ON FIRM UNDISTURBED EARTH FOUNDATION APPROVED BY ENGINEER.
- MANHOLE STEPS ARE TO BE INSTALLED FOR MAINTENANCE ACCESS TO THE STOP LOGS.

REV	ISSUED FOR	DATE	DESIGNED
0	BID	6/9/16	JPR
1	FINAL	10/6/16	JGS
			CHECKED JDJ

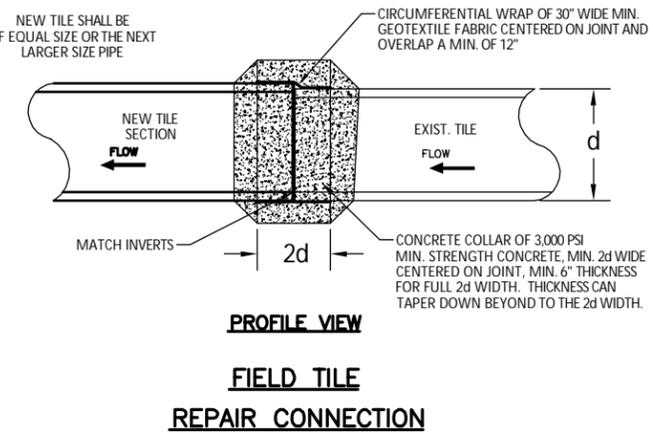


- NOTES:
1. TILE INSTALLATION OCCURS OUTSIDE THE LIMITS OF THE PERMANENT EASEMENT, CONTRACTOR SHALL MINIMIZE DISTURBED AREA AND RESTORE TO PRE-CONSTRUCTION CONDITION.
  2. CONNECT TO EXISTING TILE AS DETAILED, FITTINGS ARE INCIDENTAL.
  3. EXISTING TILE LINES TO BE ABANDONED WITH CONCRETE PLUG OR END CAP.



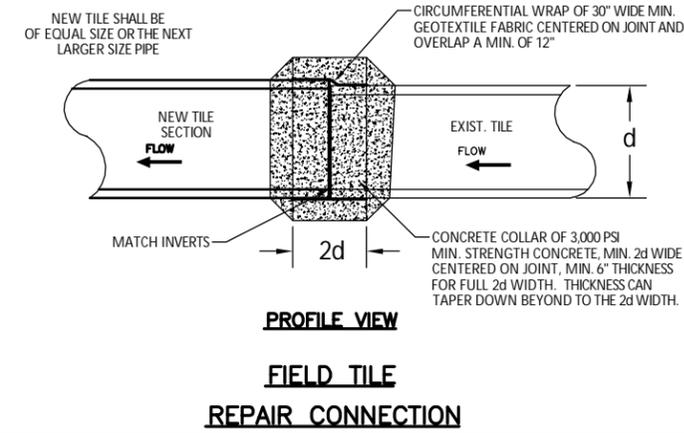
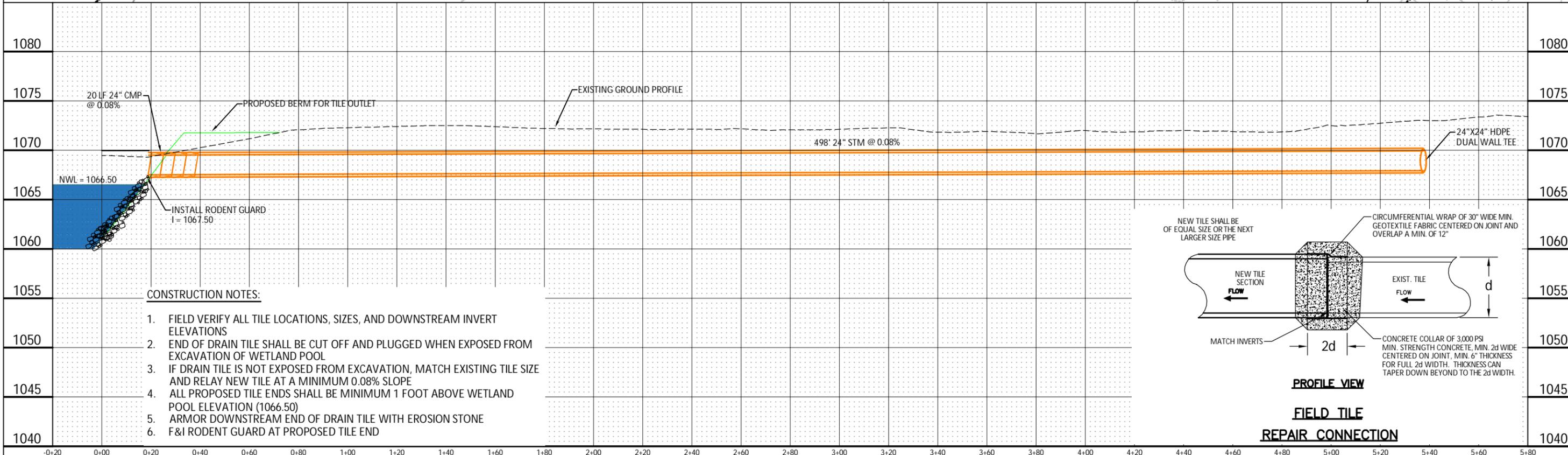
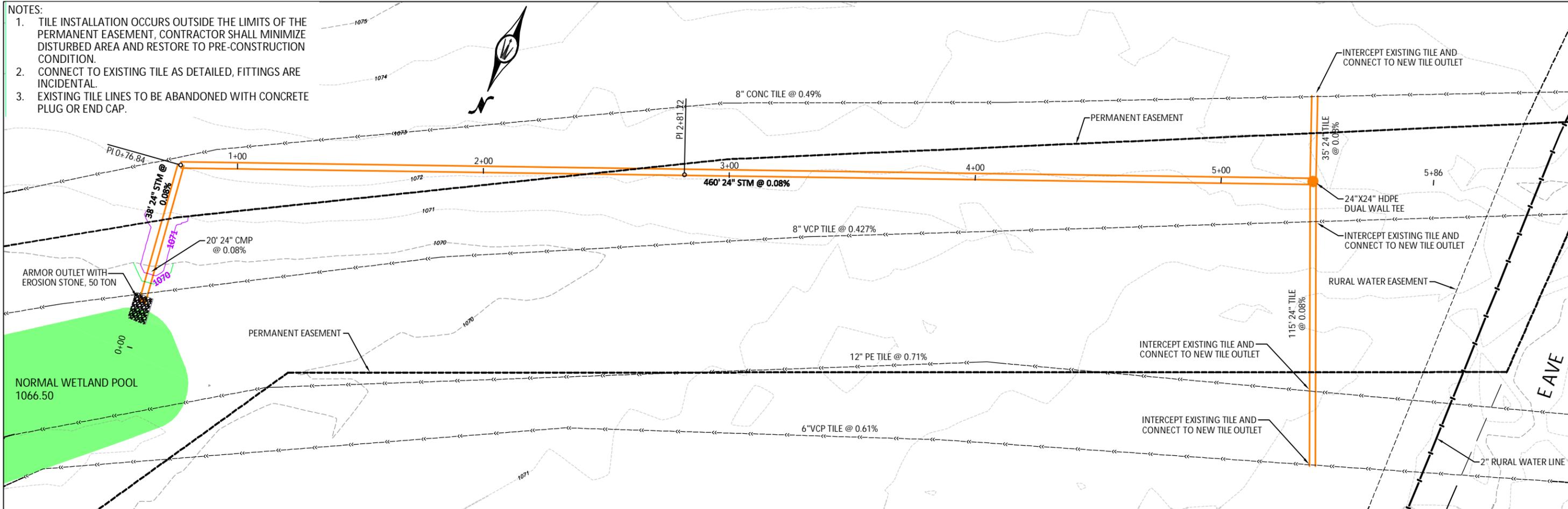
**CONSTRUCTION NOTES:**

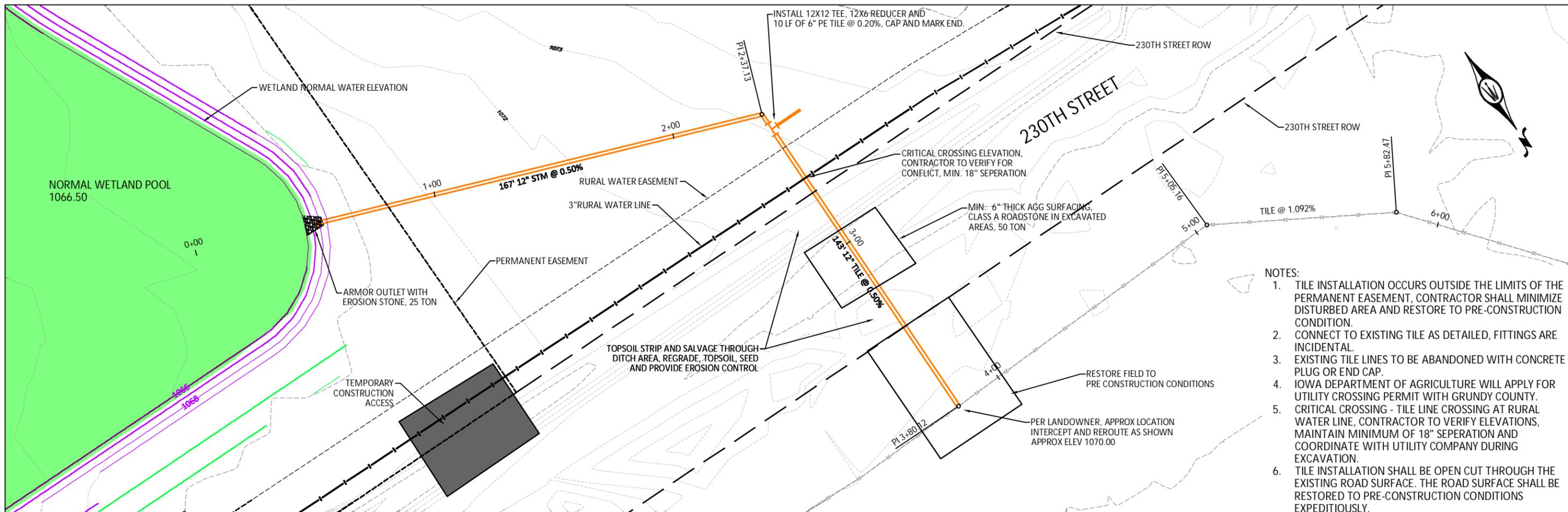
1. FIELD VERIFY ALL TILE LOCATIONS, SIZES, AND DOWNSTREAM INVERT ELEVATIONS
2. END OF DRAIN TILE SHALL BE CUT OFF AND PLUGGED WHEN EXPOSED FROM EXCAVATION OF WETLAND POOL
3. IF DRAIN TILE IS NOT EXPOSED FROM EXCAVATION, MATCH EXISTING TILE SIZE AND RELAY NEW TILE AT A MINIMUM 0.10% SLOPE
4. ALL PROPOSED TILE ENDS SHALL BE MINIMUM 1 FOOT ABOVE WETLAND POOL ELEVATION (1066.50)
5. ARMOR DOWNSTREAM END OF DRAIN TILE WITH EROSION STONE
6. F&I RODENT GUARD AT PROPOSED TILE END



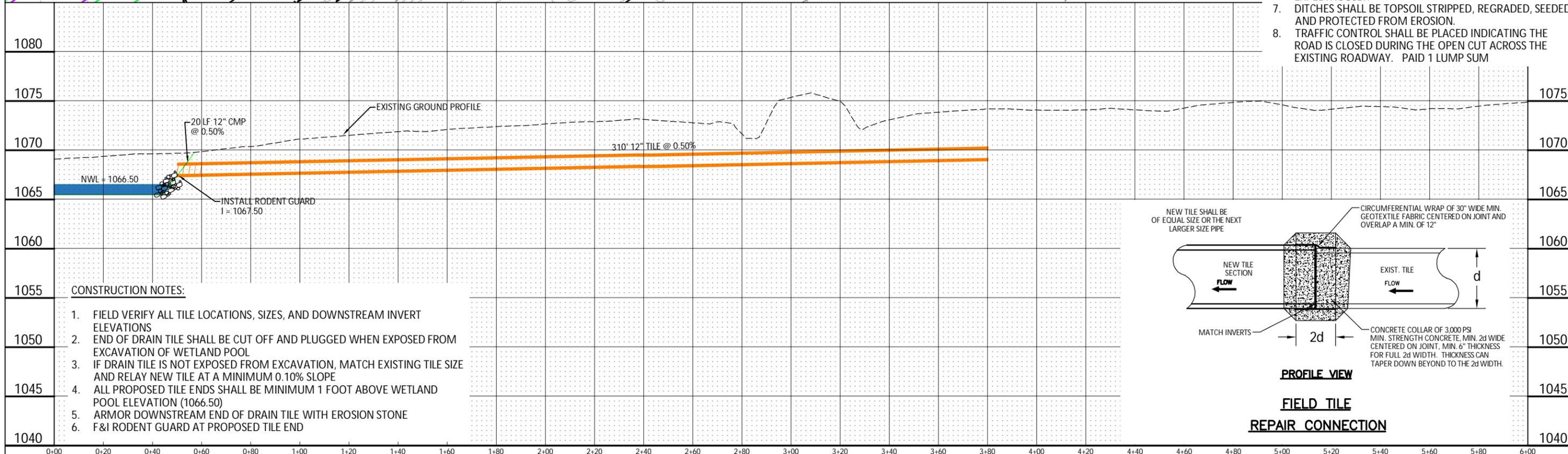
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  4. IOWA DEPARTMENT OF AGRICULTURE WILL APPLY FOR UTILITY CROSSING PERMIT WITH GRUNDY COUNTY.
  5. CRITICAL CROSSING - TILE LINE CROSSING AT RURAL WATER LINE, CONTRACTOR TO VERIFY ELEVATIONS, MAINTAIN MINIMUM OF 18" SEPERATION AND COORDINATE WITH UTILITY COMPANY DURING EXCAVATION.
  6. TILE INSTALLATION SHALL BE OPEN CUT THROUGH THE EXISTING ROAD SURFACE. THE ROAD SURFACE SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS EXPEDITIOUSLY.
  7. DITCHES SHALL BE TOPSOIL STRIPPED, REGRADED, SEEDED AND PROTECTED FROM EROSION.
  8. TRAFFIC CONTROL SHALL BE PLACED INDICATING THE ROAD IS CLOSED DURING THE OPEN CUT ACROSS THE EXISTING ROADWAY. PAID 1 LUMP SUM



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