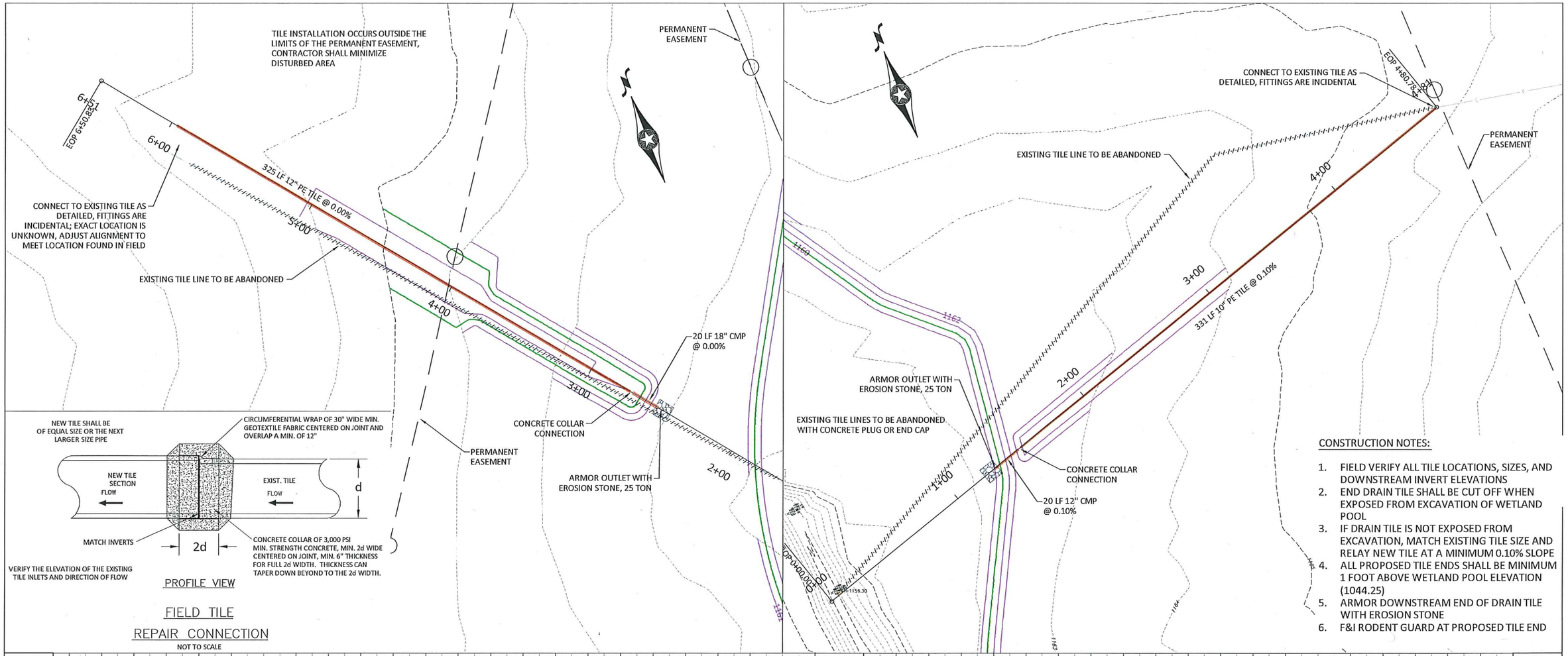


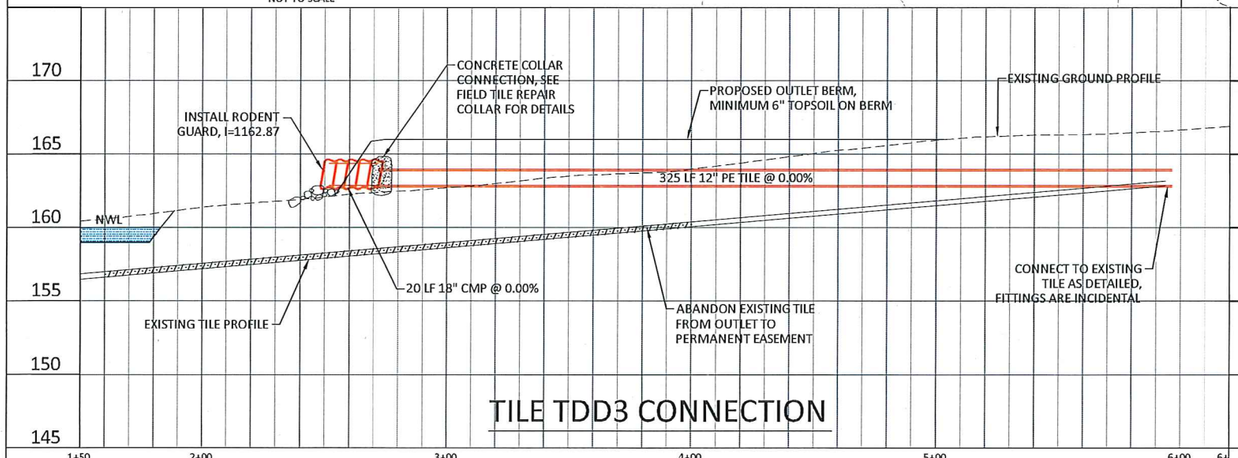
PROFILE VIEW

FIELD TILE REPAIR CONNECTION

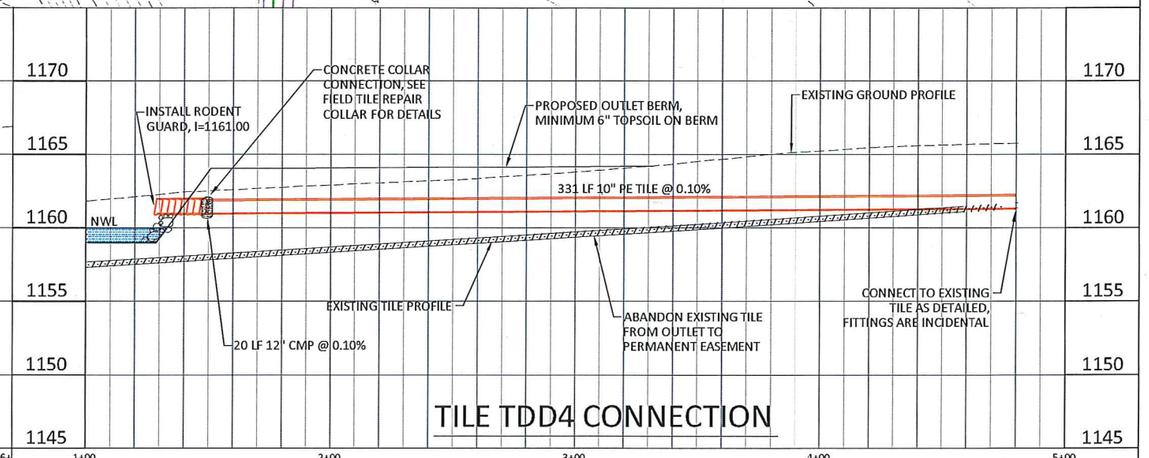
NOT TO SCALE

CONSTRUCTION NOTES:

1. FIELD VERIFY ALL TILE LOCATIONS, SIZES, AND DOWNSTREAM INVERT ELEVATIONS
2. END DRAIN TILE SHALL BE CUT OFF 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 (1044.25)
5. ARMOR DOWNSTREAM END OF DRAIN TILE WITH EROSION STONE
6. F&I RODENT GUARD AT PROPOSED TILE END



TILE TDD3 CONNECTION



TILE TDD4 CONNECTION

HORZ. SCALE 0 30 60 FEET

VERT. SCALE 0 5 10 FEET

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DESIGNED	JPR
DRAWN	JDL
CHECKED	NTG

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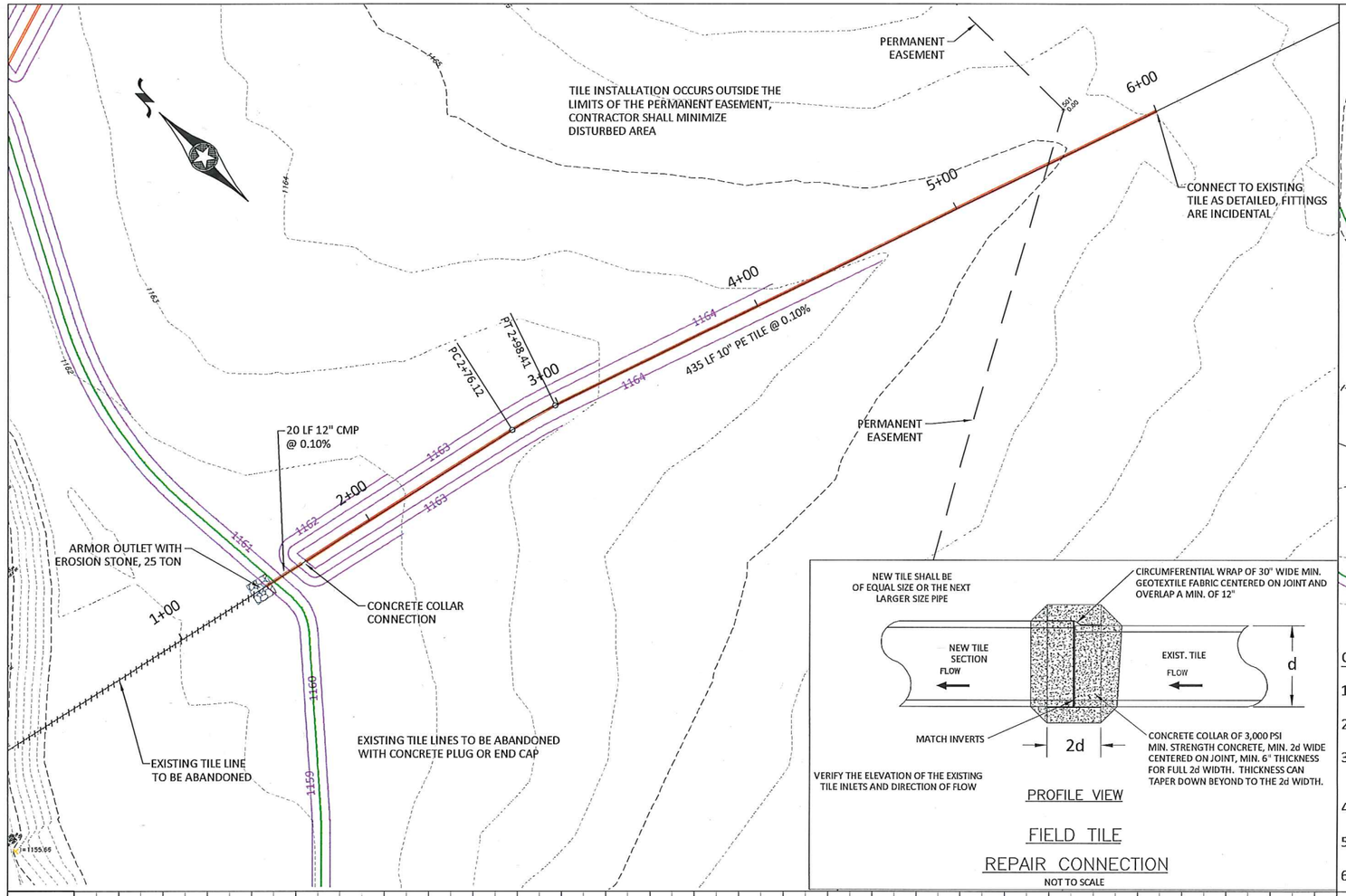
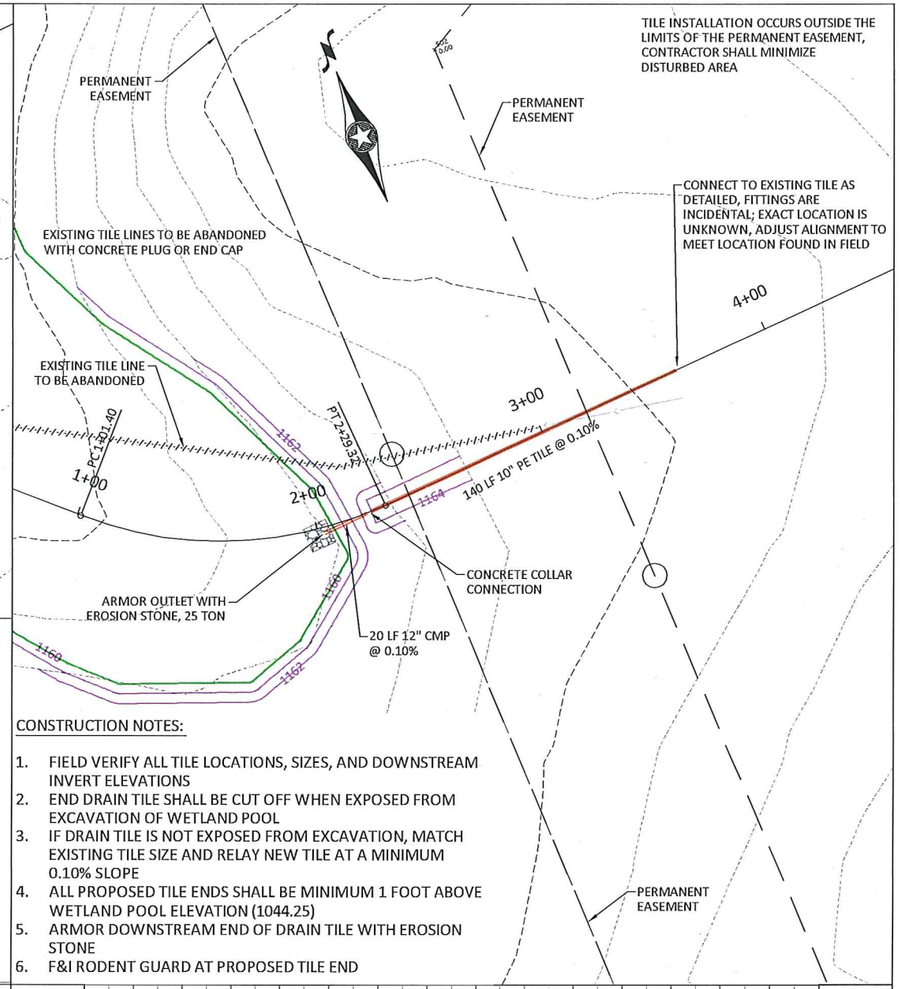
WRIGHT CREP PROJECT NO. WRI932534B
DRAIN TILE DETAIL
CONNECTION TDD3 & TDD4

SHEET 6.1





CONSTRUCTION NOTES:

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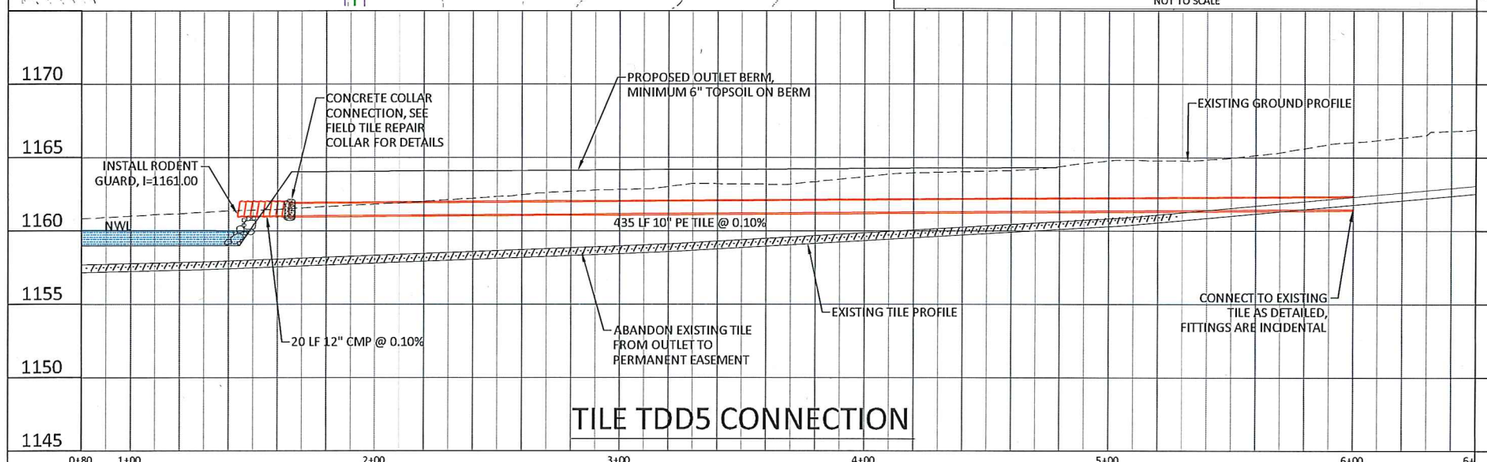
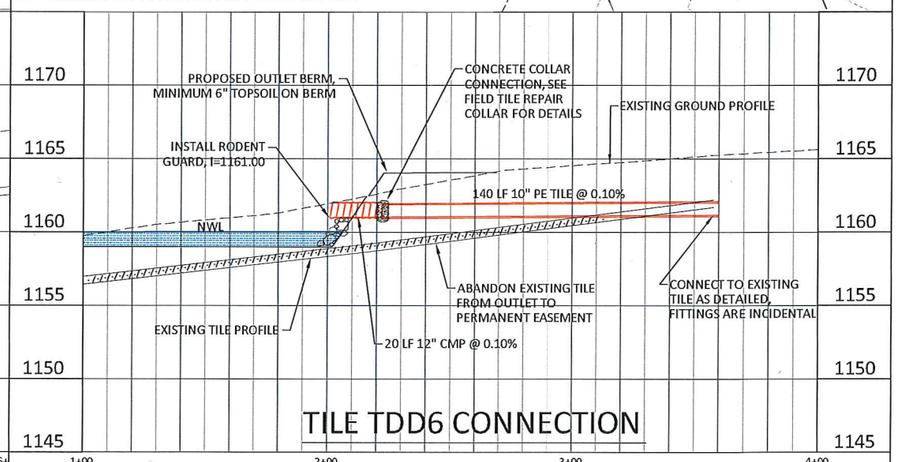
5. ARMOR DOWNSTREAM END OF DRAIN TILE WITH EROSION STONE
6. F&I RODENT GUARD AT PROPOSED TILE END



TILE TDD5 CONNECTION



TILE TDD6 CONNECTION

HORZ. SCALE 0 30 60 FEET
VERT. SCALE 0 5 10 FEET

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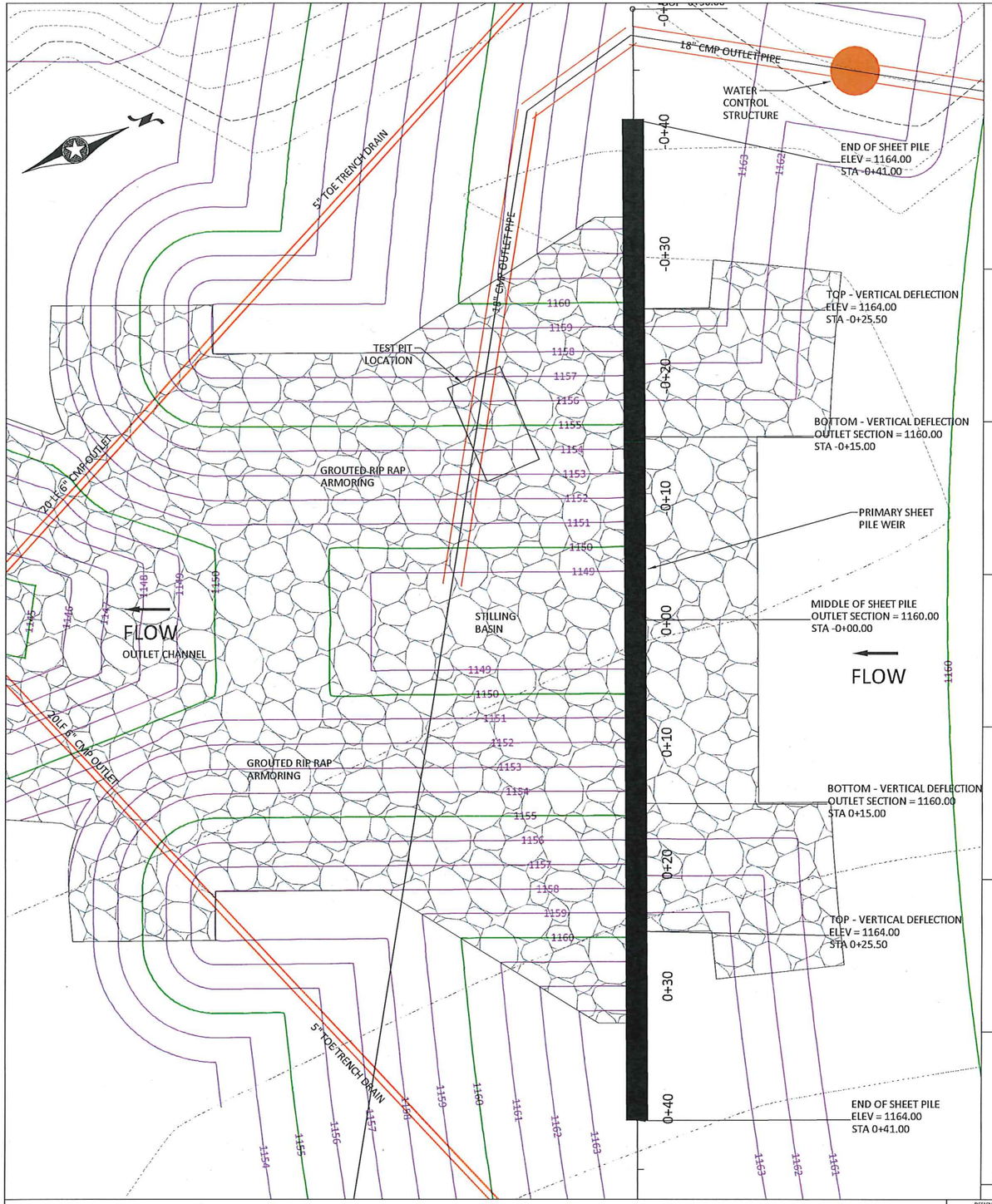
WRIGHT CREP PROJECT NO. WRI932534B
DRAIN TILE DETAIL
CONNECTION TDD5 & TDD6

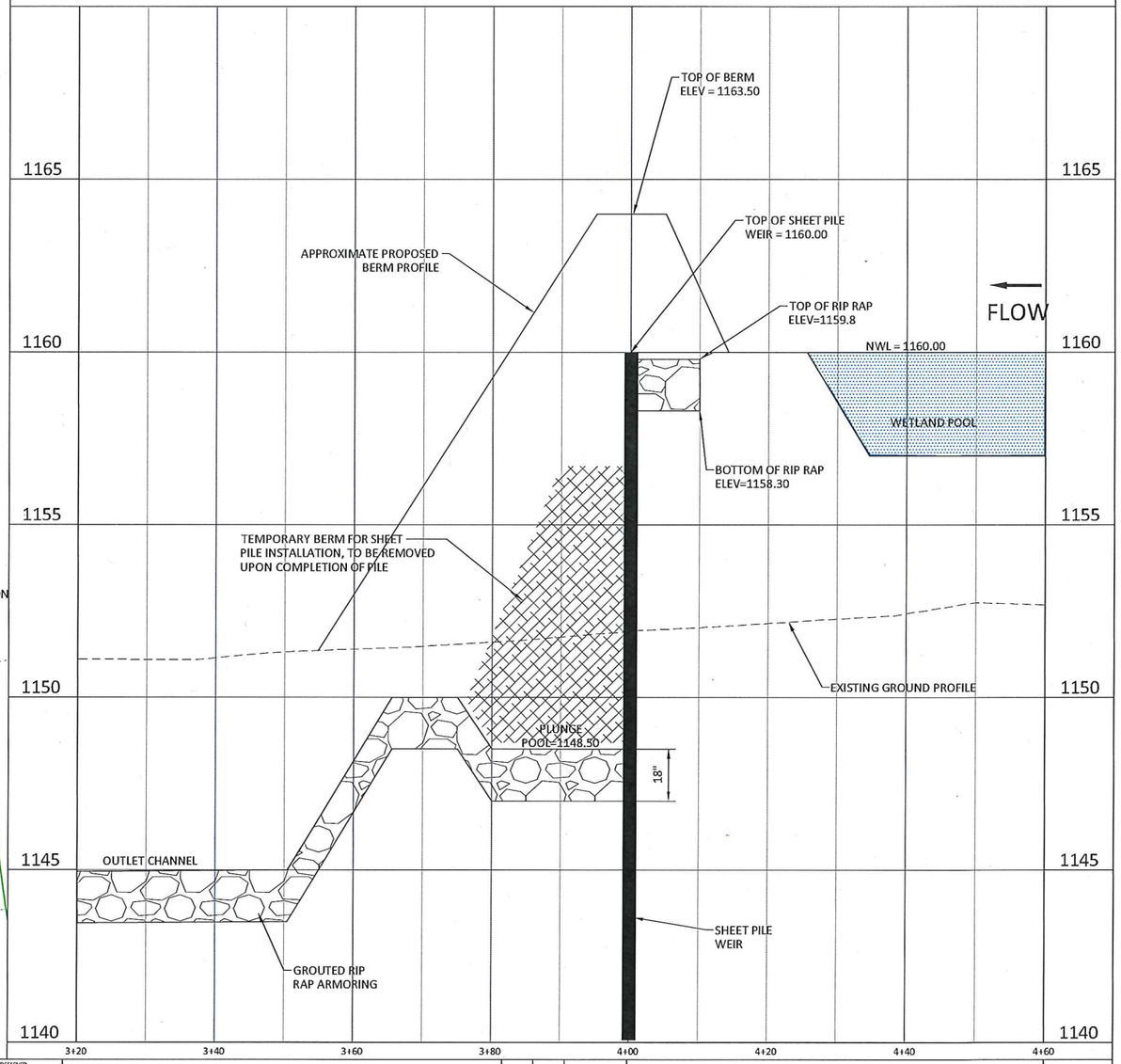
SHEET 6.2



LEGEND

- EXISTING MAIN CONTOUR
- EXISTING INTERMEDIATE CONTOUR
- EXISTING FIELD DRAIN TILE
- PROPOSED MAIN CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- PROPOSED GROUTED RIPRAP
- PROPOSED SHEET PILE WEIR
- PROPOSED OUTLET PIPE

NOTE:
AN AREA 4' WIDE ADJACENT TO THE SHEET PILE, EXTENDING THE LENGTH OF THE WEIR SHALL BE CONSTRUCTED FROM EXCESS GROUT TO HAVE A FLAT, LEVEL SURFACE WITH FLOAT FINISH. NO PORTION OF THIS AREA OR THE RIPRAP UPSTREAM SHALL EXTEND ABOVE ELEVATION 1159.80.



HORZ. SCALE 0 5 10 FEET
VERT. SCALE 0 2 4 FEET

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IOWA DEPARTMENT OF AGRICULTURE
WRIGHT CREP PROJECT NO. WRI932534B
SHEET PILE

SHEET 7.0

DESIGN SHEET PILING AREA IS 1,600 SF - PRIOR TO TRIMMING

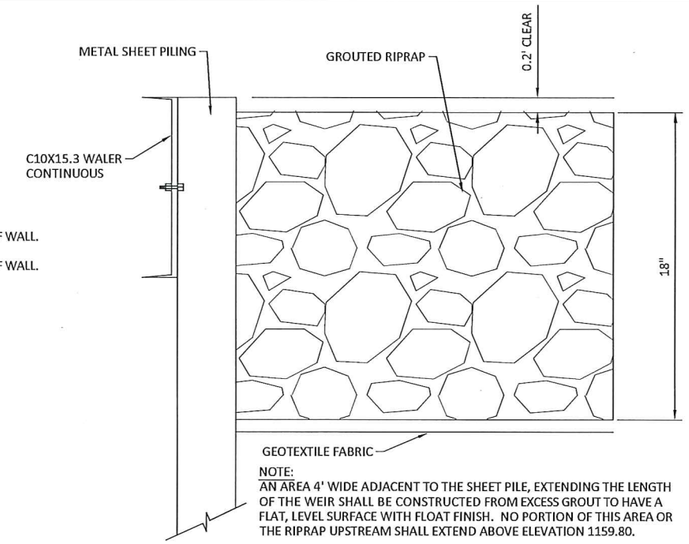
SHEET PILING REQUIREMENTS

MINIMUM SECTION MODULUS OF 22.05 CUBIC INCHES PER FOOT OF WALL.
MINIMUM GRADE OF STEEL IS 36 KSI.
MINIMUM MOMENT OF INERTIA OF 172.72 INCHES ^ 4 PER FOOT OF WALL.
ALL SHEETING SHALL MEET ASTM A-328, A-572 GR50 OR A-690.

RECOMMENDED STEEL CHOICES:

SKYLINE STEEL SCZ 22 OR EQUIVALENT
SHORELINE STEEL SZ-222, SZ-24 OR EQUIVALENT
CONTECH SZ-222, SZ-24 OR EQUIVALENT
LB FOSTER PZC 13 OR EQUIVALENT
GERDAU AMERISTEEL PZC 13 OR EQUIVALENT

OTHER SHEETING MAYBE ALLOWED WITH PRIOR APPROVAL OF ENGINEER.



NOTE:
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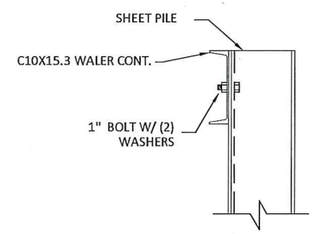
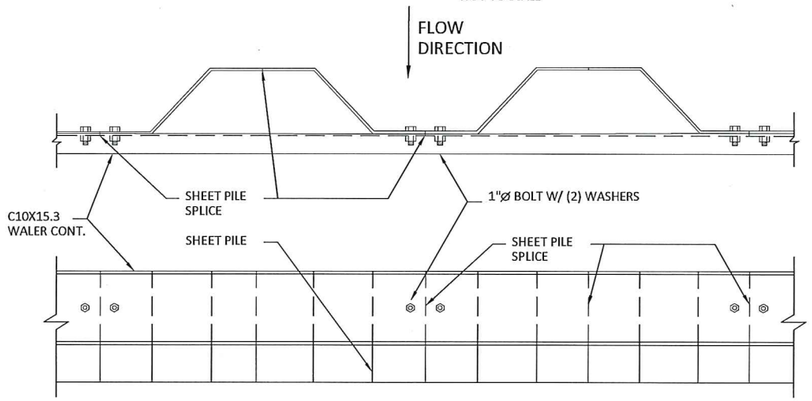
GROUTED RIPRAP DETAIL
NOT TO SCALE

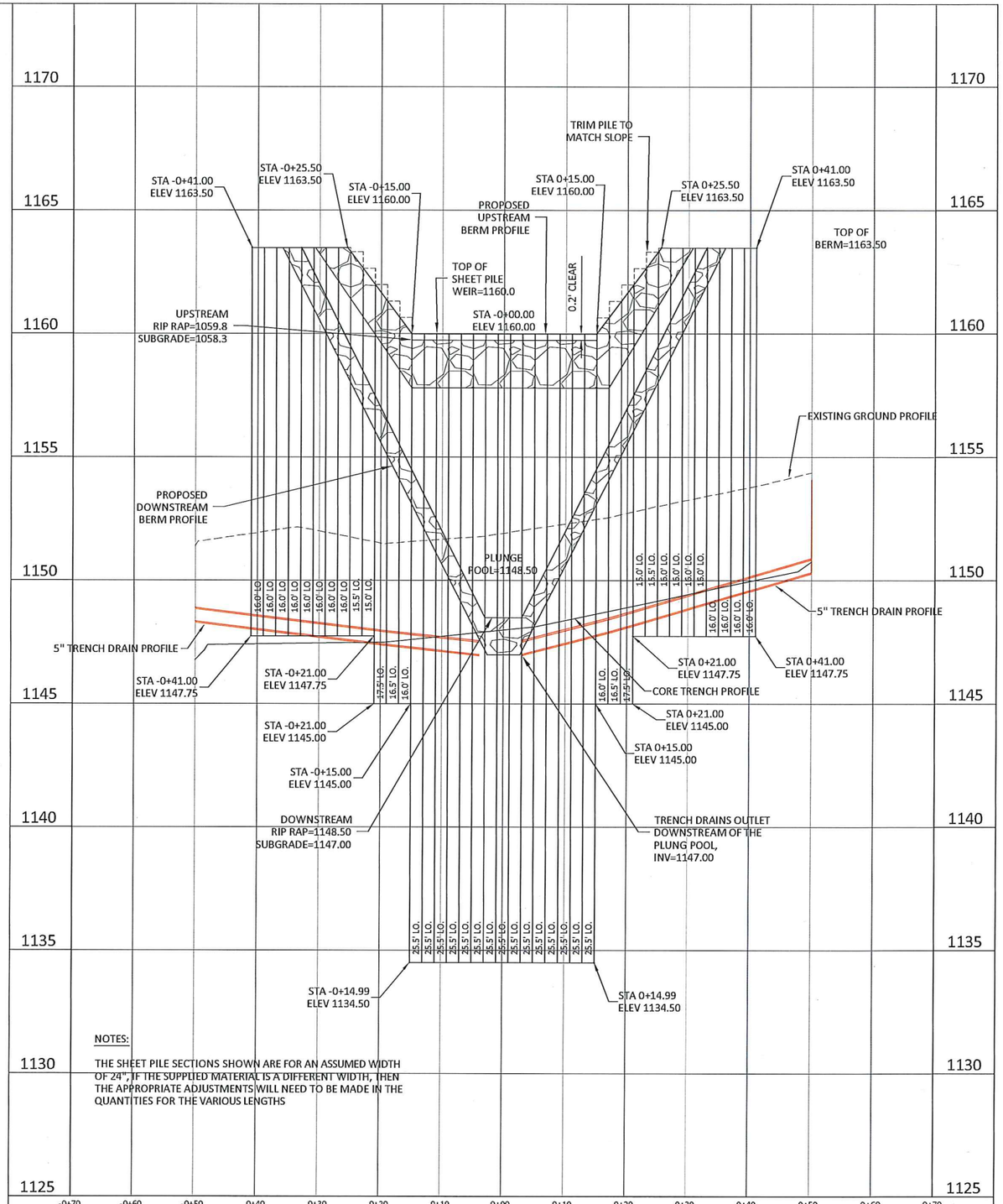


NOTE: 1 BOLT TO BE PLACED ON EACH SIDE OF SPLICE

BOLT DETAIL
NOT TO SCALE



WALER BOLT PLACEMENT
NOT TO SCALE



NOTES:

1. ALL BOLTS WILL BE 1" DIA. WITH 2 WASHERS. BOLT SHALL BE EXTENDED AT A MINIMUM OF $\frac{3}{8}$" BEYOND THE NUT.
2. ALL HOLES SHALL BE DRILLED $\frac{1}{16}$" DIA. LARGER THE THE BOLT.
3. IT IS RECOMMENDED THAT THE WALER SHALL BE PLACED ON THE DOWNSTREAM SIDE OF THE WEIR.
4. ANY HOLES LEFT IN SHEET PILE (LIFTING HOOKS ETC.) SHALL BE CLOSED OFF TO NOT ALLOW WATER TO FLOW THROUGH RIPRAP.
5. AFTER SHEETING AND WALER INSTALLATION ALL SHEETING IS TO BE CUT TO CONFORM WITH 3:1 SLOPE.
6. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDING WITH THE LATEST SPECIFICATION OF AISC. FABRICATOR SHALL SUBMIT SHOP DRAWINGS. FABRICATE AFTER ENGINEERS REVIEW.
7. DEFLECTIONS SHALL BE MADE IN FABRICATED PIECES AND STILL CONFORM TO THE DIMENSIONS GIVEN.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LIVE LOADS.
9. PROVIDE ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.

NOTES:

THE SHEET PILE SECTIONS SHOWN ARE FOR AN ASSUMED WIDTH OF 24", IF THE SUPPLIED MATERIAL IS A DIFFERENT WIDTH, THEN THE APPROPRIATE ADJUSTMENTS WILL NEED TO BE MADE IN THE QUANTITIES FOR THE VARIOUS LENGTHS

HORZ. 0 20 40 SCALE FEET
VERT. 0 5 10 SCALE FEET

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IOWA DEPARTMENT OF AGRICULTURE
WRIGHT CREP PROJECT NO. WRI932534B
SHEET PILE SECTION & DETAILS

SHEET 7.1