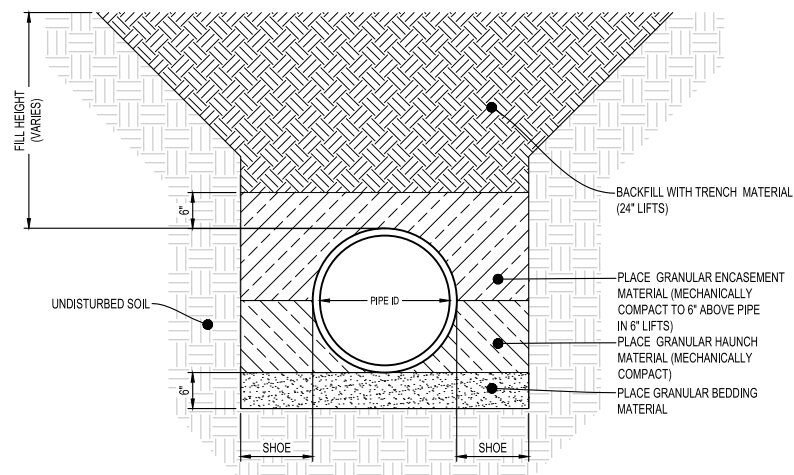




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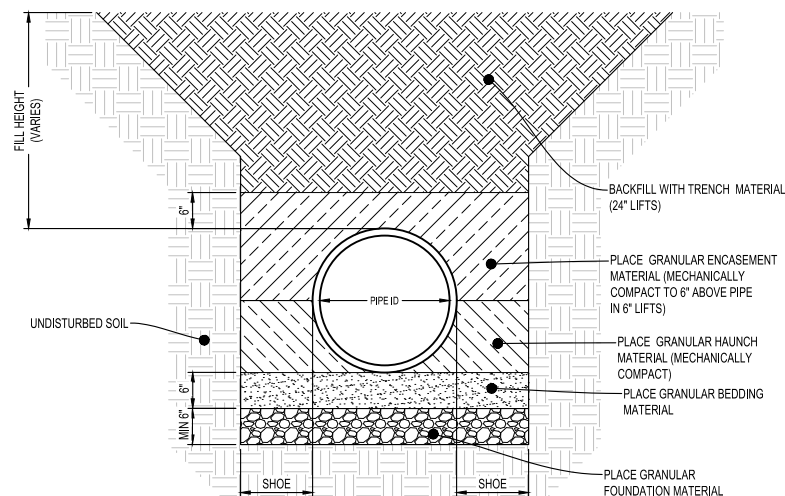
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NOTE:

1. GRANULAR BEDDING, GRANULAR ENCASEMENT, AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.
3. THE SHOE WIDTH SHALL BE THE SAME AS THE COMPACTING MECHANISMS WIDTH OR THE PIPE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER.

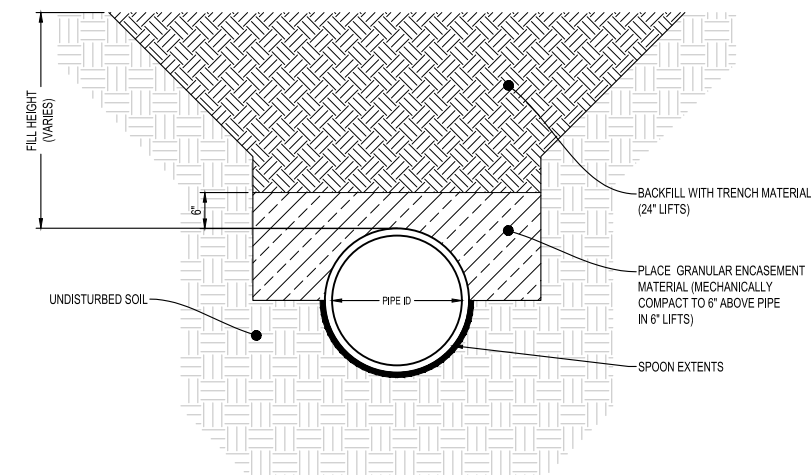
HDPE FLAT BOTTOM TRENCH
NTS



NOTES:

1. GRANULAR BEDDING, GRANULAR ENCASEMENT, AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. GRANULAR FOUNDATION BELOW THE PIPE SHALL BE PAID FOR BY THE CUBIC YARD, ONLY WHERE APPROVED BY THE FIELD ENGINEER.
3. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.
4. THE SHOE WIDTH SHALL BE THE SAME AS THE COMPACTING MECHANISMS WIDTH OR THE PIPE MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS GREATER.

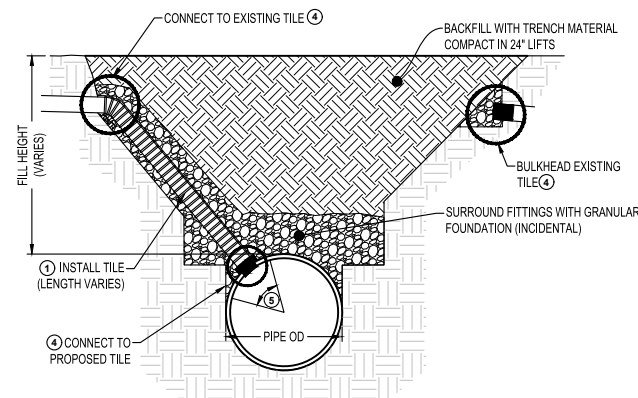
HDPE FLAT BOTTOM TRENCH WITH GRANULAR FOUNDATION
NTS



NOTES:

1. GRANULAR ENCASEMENT AND BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
2. SPOON DIMENSIONS SHALL COMPLY WITH PIPE MANUFACTURER'S SPECIFICATIONS.
3. ALL PIPE WITH A FILL HEIGHT GREATER THAN 15-FEET SHALL BE FULLY ENCASED IN ASTM CLASS I MATERIAL.

HDPE SPOON TRENCH
NTS

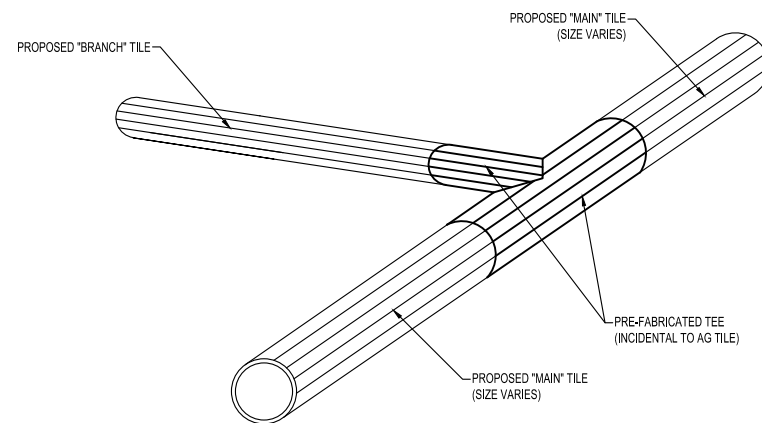


EXISTING TILE TYPE	FILL HEIGHT	CONNECTION MATERIAL ②
EXISTING PUBLIC TILES	ALL	HDPE
EXISTING PRIVATE TILES	>15 FEET	HDPE
EXISTING PRIVATE TILES	≤15 FEET	③

NOTES:

- ① REFER TO THE TABLE FOR MATERIAL, SIZE VARIES, THE TILE SHALL BE THE SAME AS OR THE NEXT AVAILABLE SIZE, UNLESS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER.
- ② HDPE SHALL BE USED IF THE EXISTING TILE IS HDPE, REGARDLESS OF THE FILL HEIGHT.
- ③ HDPE SHALL BE USED WITHIN 5' FROM THE PROPOSED PIPE AND THEN PE MAY BE USED.
- ④ REFER TO TYPICAL CONNECTION DETAILS.
- ⑤ CONNECTION TO PROPOSED TILE SHALL BE LIMITED TO 15 TO 75 DEGREES FROM SPRING LINE.
ALL TILE, FITTINGS, GEOTEXTILE FABRIC, FOUNDATION ROCK, TILE TAPE, CONCRETE, AND EXCAVATION SHALL BE INCIDENTAL.

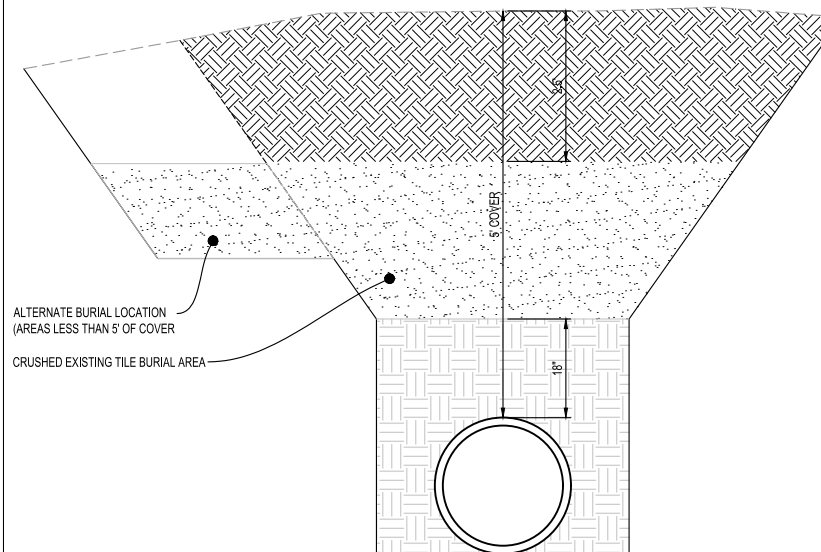
CONNECT TO EXISTING TILE
NTS



NOTES:

1. CONNECTION TO PROPOSED TILE SHALL BE INCIDENTAL TO TILE INSTALLATION.
2. PRE-FABRICATED TEE SHALL BE BEDDED AND ENCASED IN GRANULAR FOUNDATION MATERIAL.

CONNECT TO PROPOSED BRANCH TILE
NTS



EXISTING TILE DISPOSAL
NTS

PROJECT

IDALS
BV WETLAND TILE REPLACEMENT

BUENA VISTA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	18-22574
FILE NAME	22574-DETAILS
DRAWN BY	OBO
DESIGNED BY	SDP
REVIEWED BY	SDP
ORIGINAL ISSUE DATE	11/15/24
CLIENT PROJECT NO.	-

TITLE

DETAILS

SHEET

B.01



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PROJECT

IDALS
BV WETLAND TILE
REPLACEMENT

BUENA VISTA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

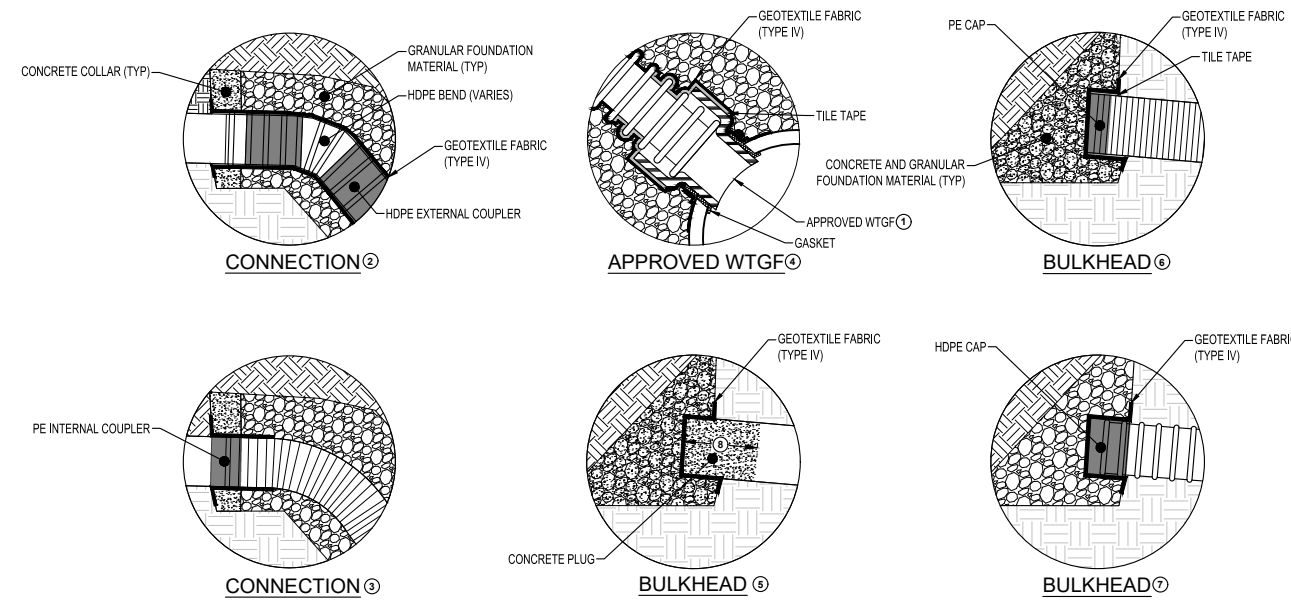
PROJECT NO. 18-22574
FILE NAME 22574-DETAILS
DRAWN BY OBO
DESIGNED BY SDP
REVIEWED BY SDP
ORIGINAL ISSUE DATE 11/15/24
CLIENT PROJECT NO. -

TITLE

DETAILS

SHEET

B.02



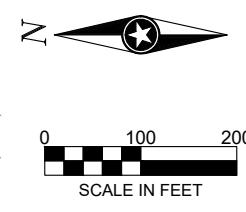
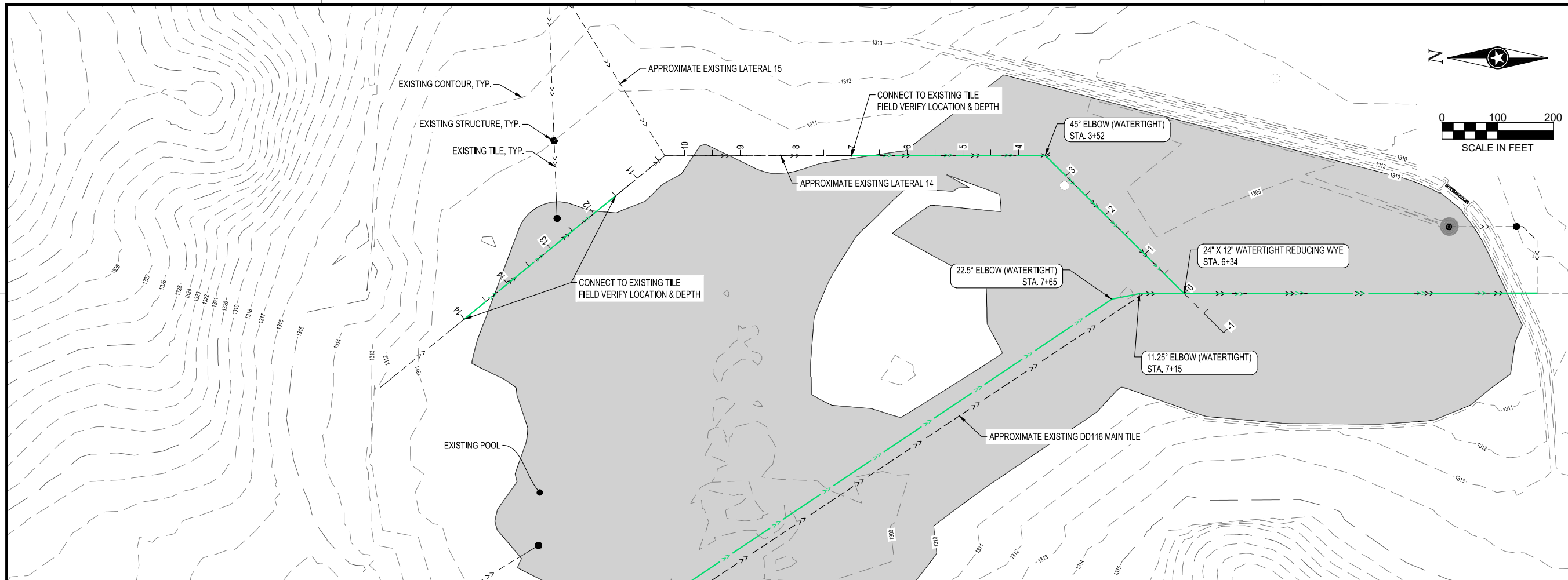
TYPICAL CONNECTION DETAILS
NTS

KEY NOTES:

1. APPROVED WATERTIGHT GASKETED FITTING (WTGF) SHALL ONLY BE USED WHEN THE PIPE TO BE CONNECTED IS 1/2 (OR SMALLER) THE DIAMETER OF THE PIPE TO BE TAPPED. A MOLDED TEE SHALL BE USED IN ALL OTHER SITUATIONS. APPROVED WTGF SHALL NOT BE INSTALLED COMPLETELY VERTICAL OR INTO THE BOTTOM HALF OF THE PIPE TO BE TAPPED.
2. CONNECTION OF HDPE TO CLAY, CONCRETE, OR PE TILE.
3. CONNECTION OF PE TO CLAY, CONCRETE, OR PE TILE.
4. CONNECTION OF PE OR HDPE TO PIPE TO BE TAPPED.
5. BULKHEAD OF EXISTING CLAY OR CONCRETE TILE.
6. BULKHEAD OF EXISTING PE TILE.
7. BULKHEAD OF EXISTING HDPE TILE.
8. CONCRETE BULKHEAD SHALL EXTEND INTO THE PIPE A MINIMUM LENGTH EQUIVALENT TO ONE DIAMETER OF THE PIPE.

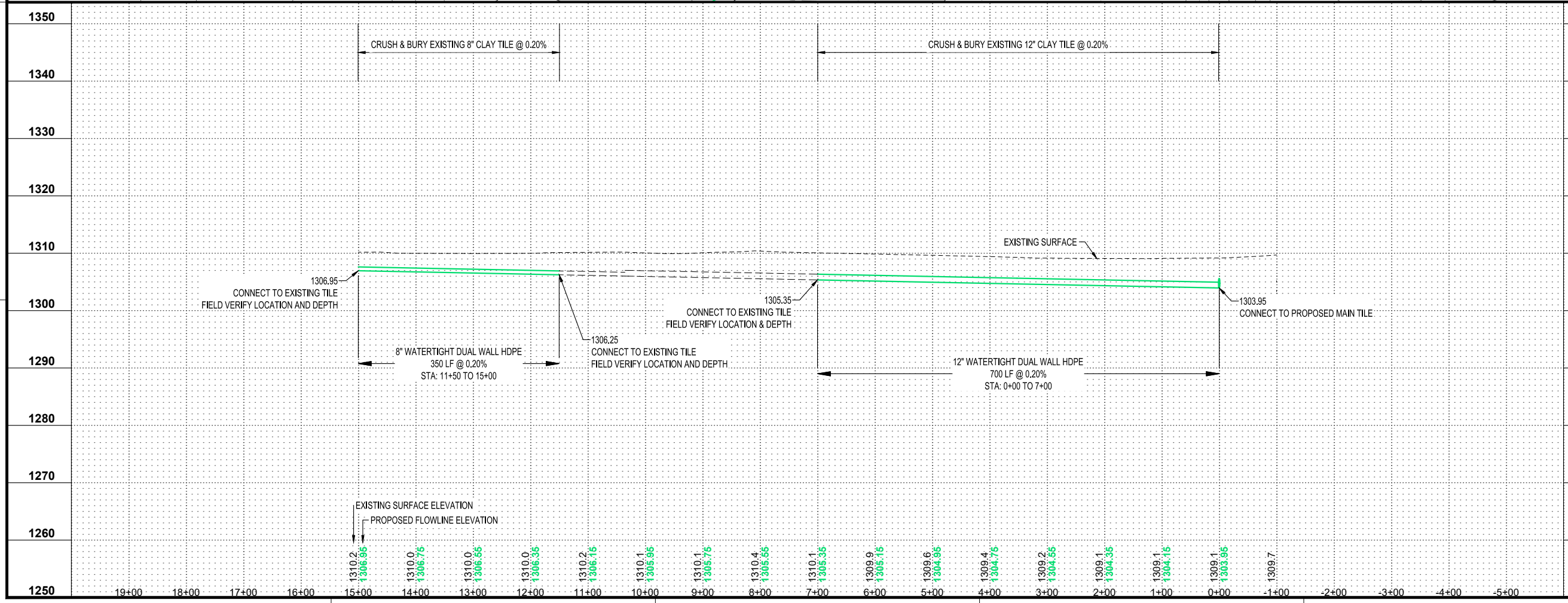
NOTES:

1. ALL TILE, FITTINGS, GEOTEXTILE FABRIC, FOUNDATION ROCK, TILE TAPE, CONCRETE, AND EXCAVATION SHALL BE INCIDENTAL TO RESPECTIVE BID ITEM UNLESS OTHERWISE NOTED.
2. NOT ALL SITUATIONS OR APPROVED EQUALS ARE DEMONSTRATED IN DETAIL. ENGINEER SHALL APPROVE OF EQUALS.



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PROJECT

IDALS

BV WETLAND TILE REPLACEMENT

BUENA VISTA IOWA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 18-22574
 FILE NAME 22574-UTILITY-P&P
 DRAWN BY OBO
 DESIGNED BY SDP
 REVIEWED BY SDP
 ORIGINAL ISSUE DATE 11/15/24
 CLIENT PROJECT NO. -

TITLE

DD116 PLAN & PROFILE LAT. 14

SHEET

D.02