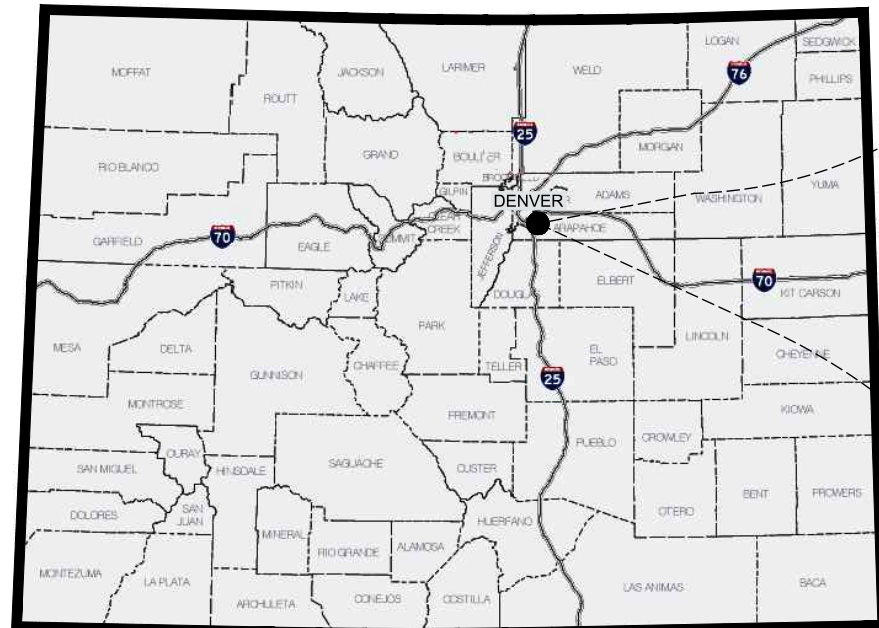
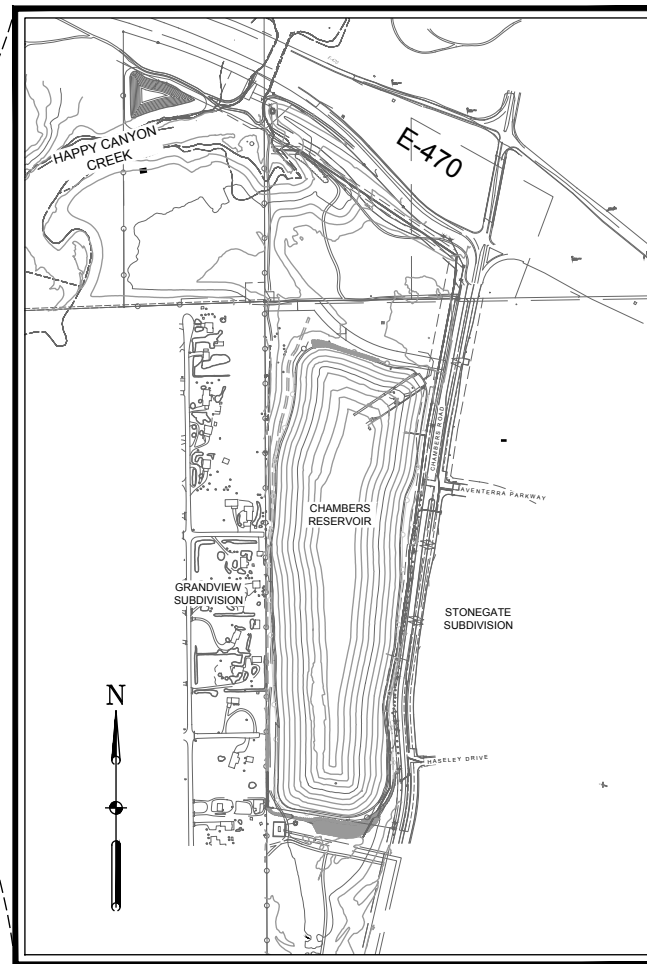


CHAMBERS RESERVOIR REMEDIATION DESIGN (PHASE II)

PREPARED FOR:
ARAPAHOE COUNTY WATER WASTEWATER ASSOCIATION (ACWWA)
30% REVIEW
JANUARY, 2019



COLORADO
STATE MAP
NOT TO SCALE



VICINITY MAP



LIST OF DRAWINGS	
DWG NO.	TITLE
C2-01	COVER
C2-02	DEMO PLAN
C2-03	SITE PLAN
C2-04	DETAILED TYPICAL SECTIONS
C2-05	SPILLWAY LAYOUT
C2-06	RESERVOIR LINER LAYOUT
C2-07	LINER DETAILS SHEET 1 OF 2
C2-08	LINER DETAILS SHEET 2 OF 2

AECOM

PROJECT

CHAMBERS RESERVOIR REMEDIATION DESIGN (PHASE II)

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ARAPAHOE COUNTY
Water and Wastewater Authority

13031 E Caley Ave
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KEY PLAN

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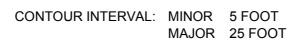
60567161

SHEET TITLE

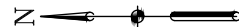
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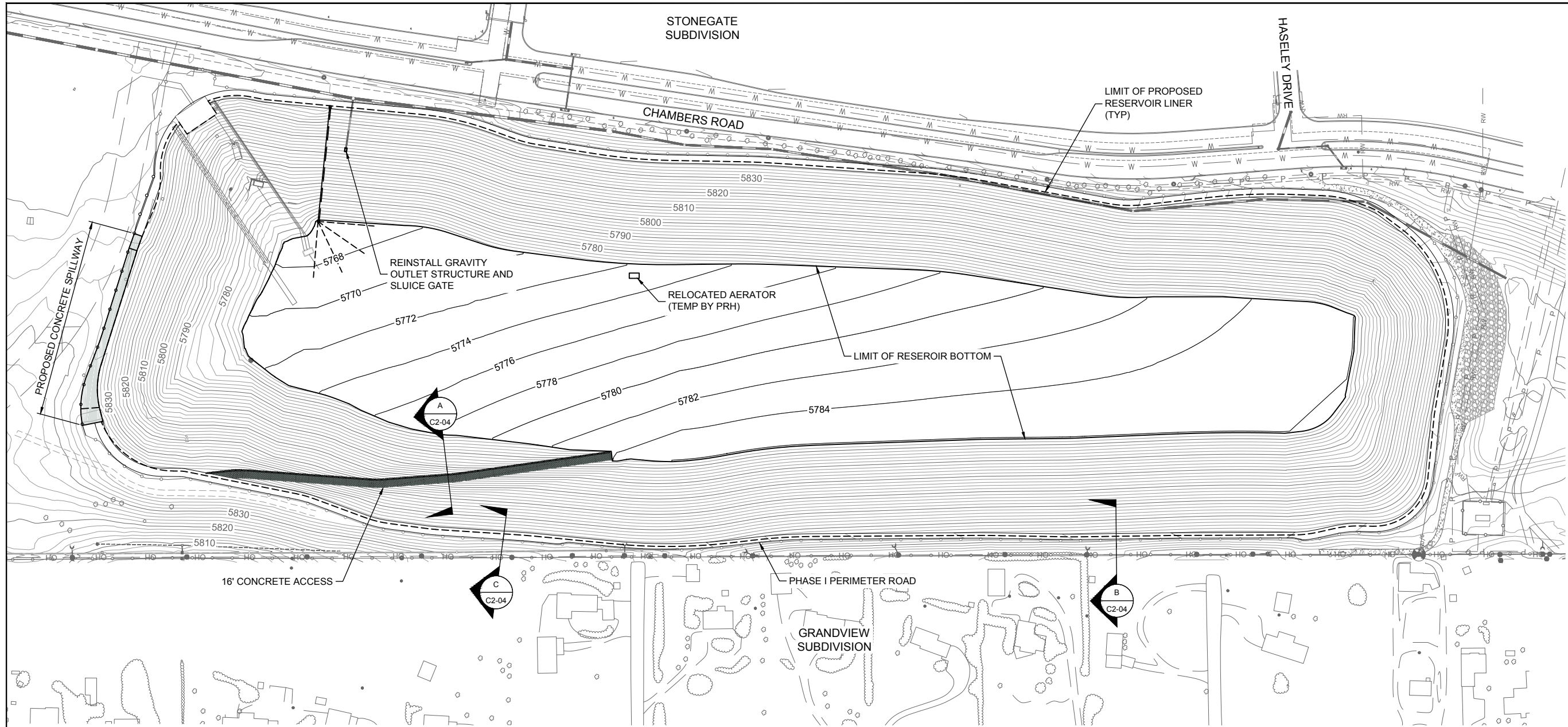
SHEET NUMBER

C2-01



1. PUMP STATION AND APPURTENANCES ARE TO BE PROTECTED IN PLACE.
2. PROTECT IN PLACE ALL MONUMENTS AND MOVEMENT MARKERS.
3. CONTRACTOR TO PROTECT IN PLACE OR REMOVE AND SALVAGE EXISTING FENCE FOR REUSE PER DESIGN.
4. GRAVITY DRAIN GATE AND COMPONENTS SALVAGED AND EXISTING PIPE CUT BACK DURING PHASE I CONSTRUCTION. REMAINING PIPE TO BE PROTECTED FOR RE-INSTALLATION OF GATE AND COMPONENTS.





SITE PLAN



CONTOUR INTERVAL: MINOR 2 FOOT
MAJOR 10 FOOT



SITE PLAN NOTES:

1. NOT USED.

LEGEND

5850	EXISTING MAJOR CONTOUR (25' INTERVAL)
5850	EXISTING MINOR CONTOUR (5' INTERVAL)
5850	PROPOSED MAJOR CONTOUR (25' INTERVAL)
5850	PROPOSED MINOR CONTOUR (5' INTERVAL)

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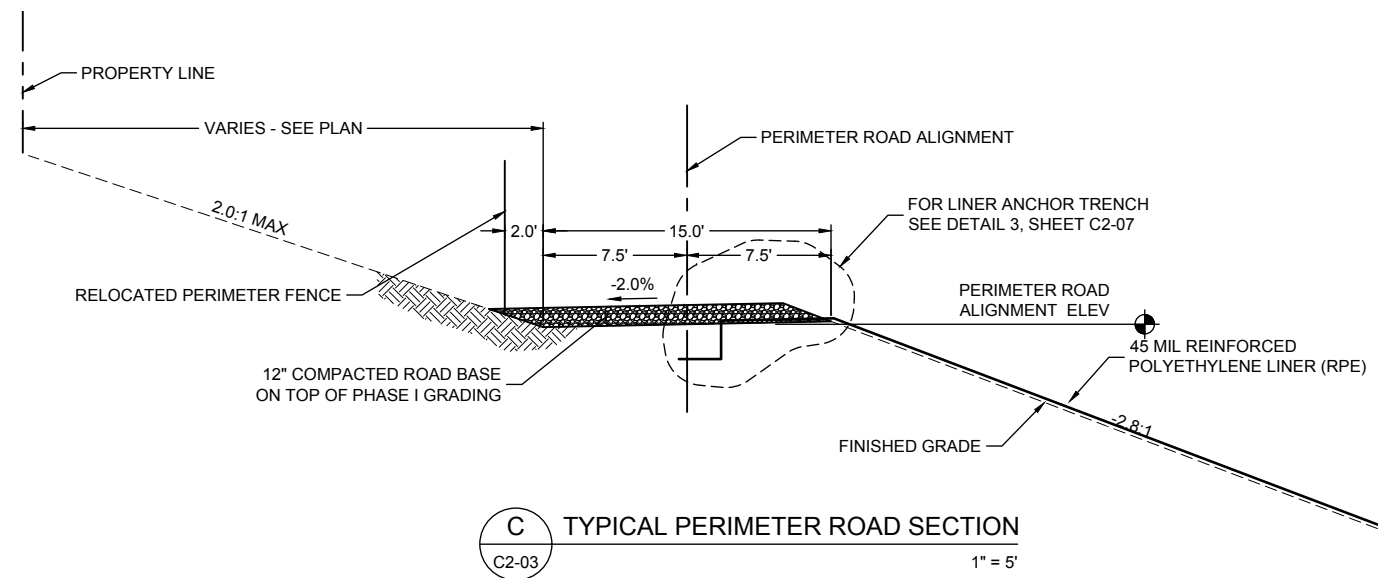
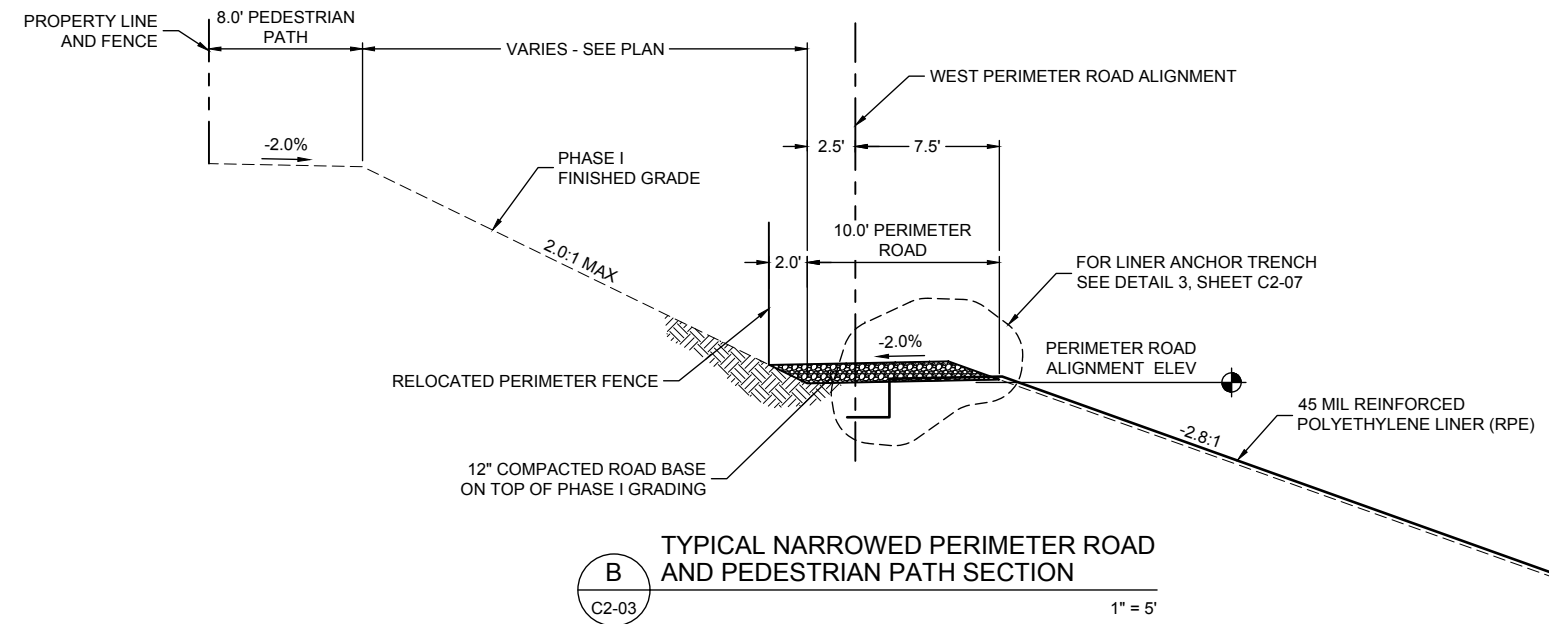
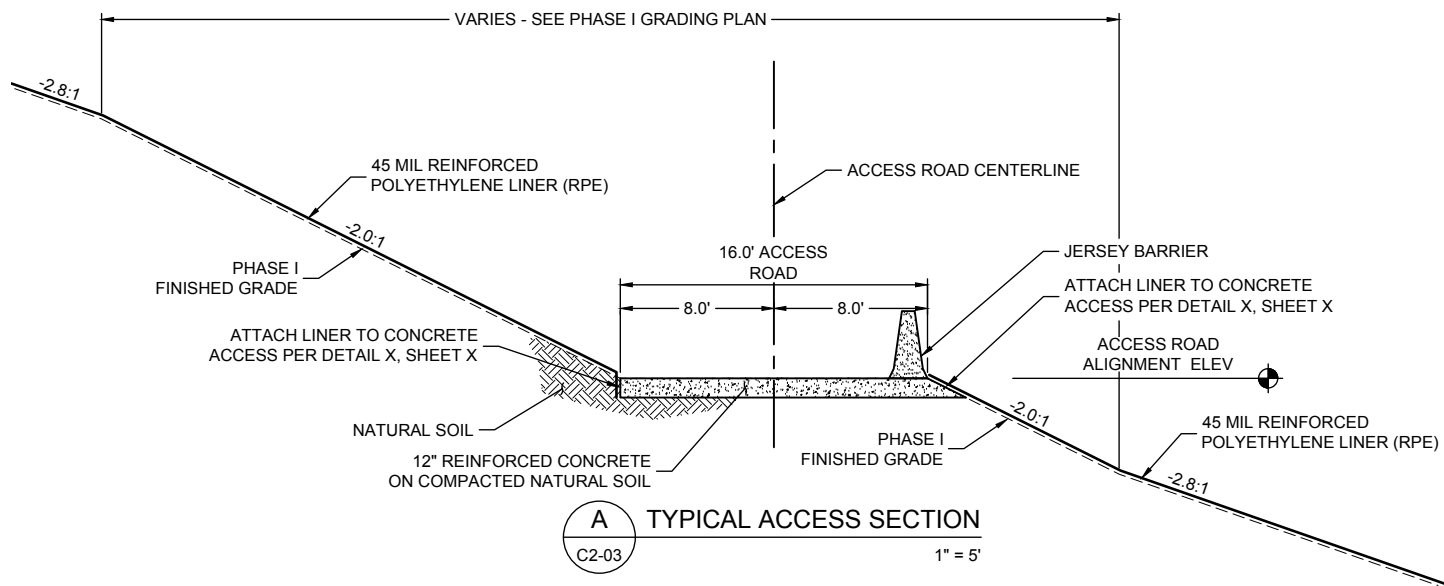
60567161

SHEET TITLE

SITE PLAN

SHEET NUMBER

C2-03

DETAILED GRADING NOTES:

1. NOT USED

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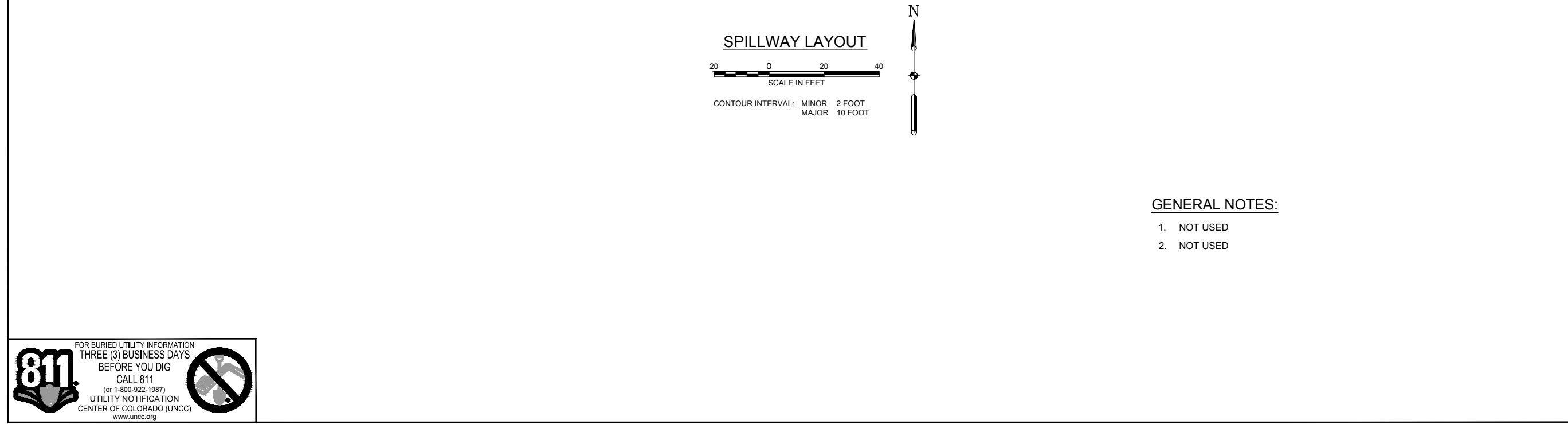
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SHEET TITLE

DETAILED TYPICAL SECTIONS

SHEET NUMBER

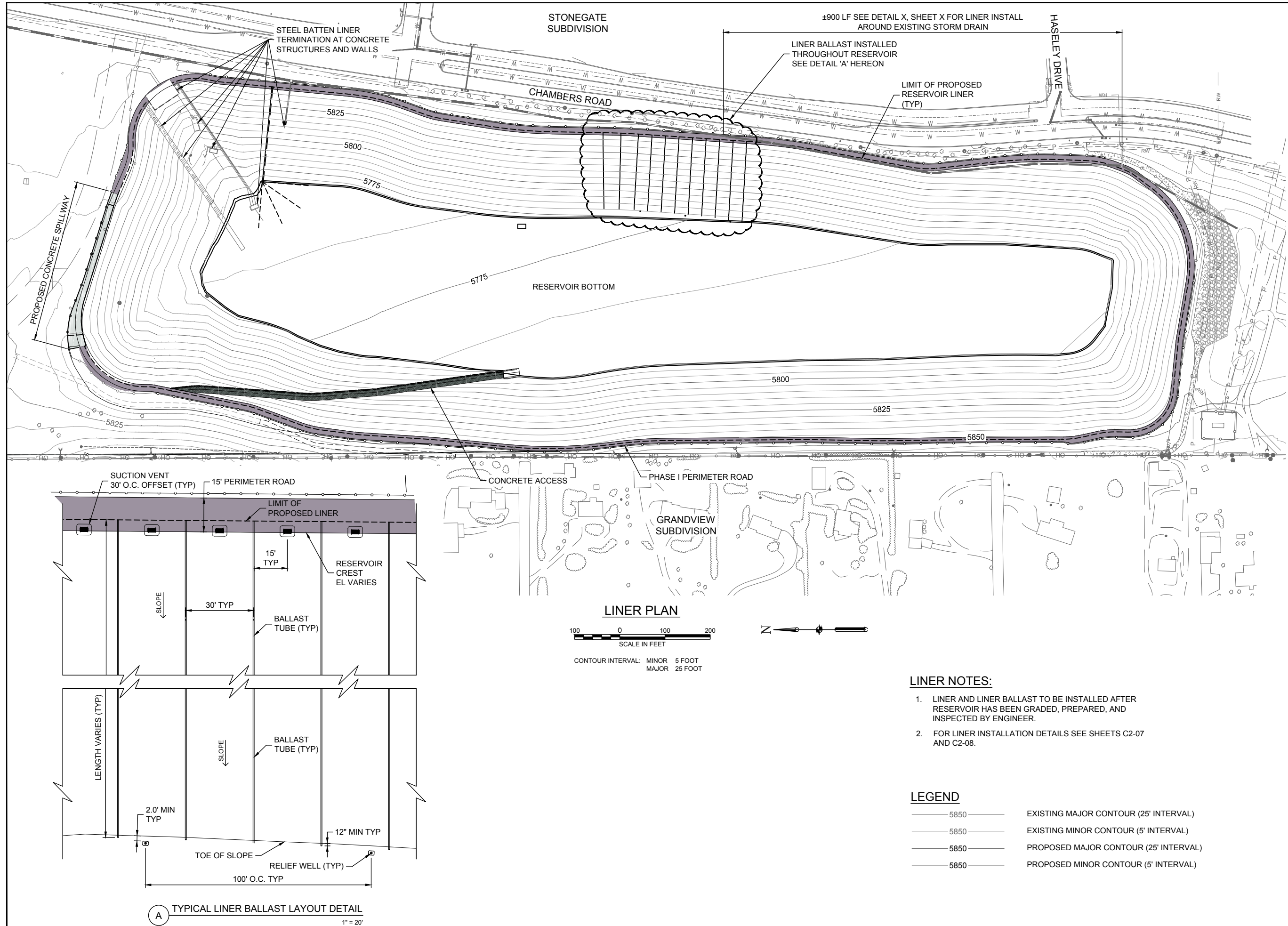
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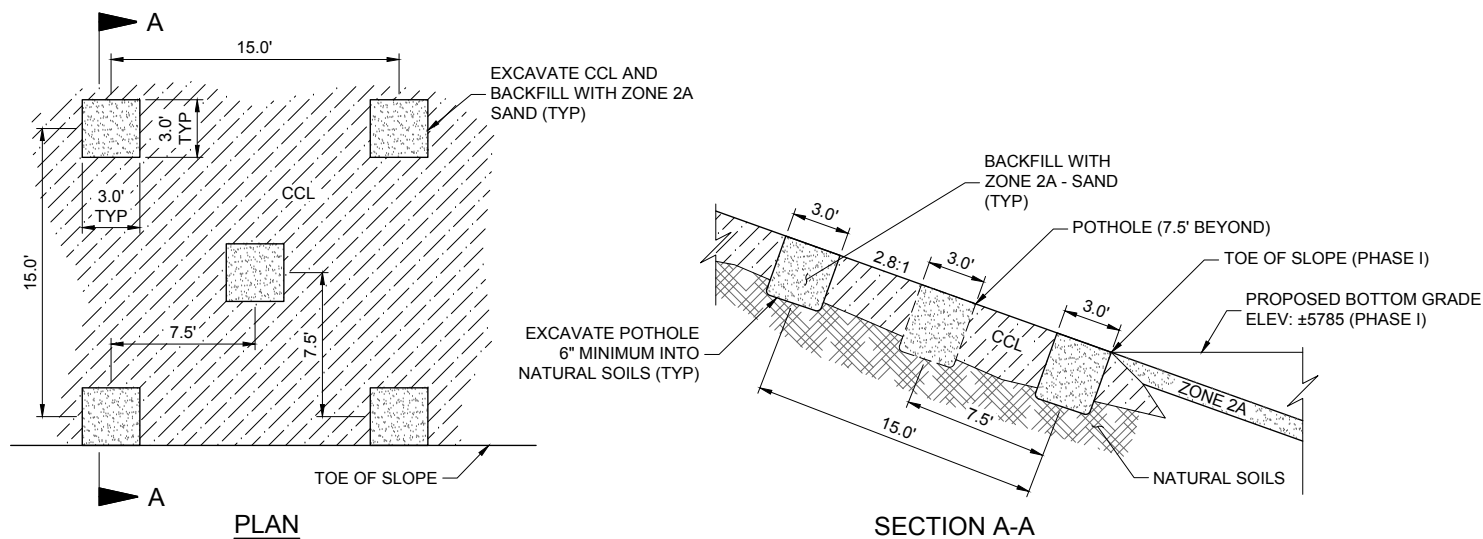
1. NOT USED
2. NOT USED



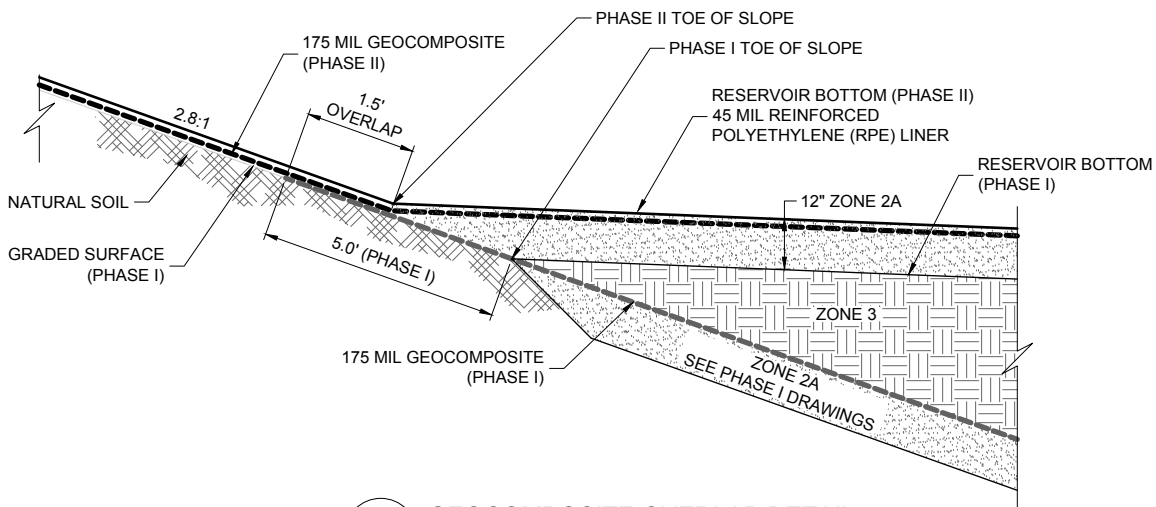
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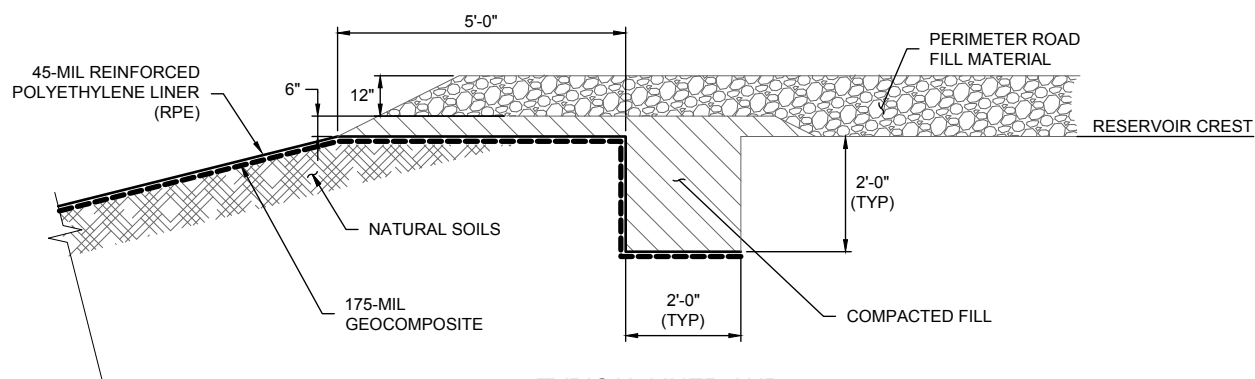
C2-06



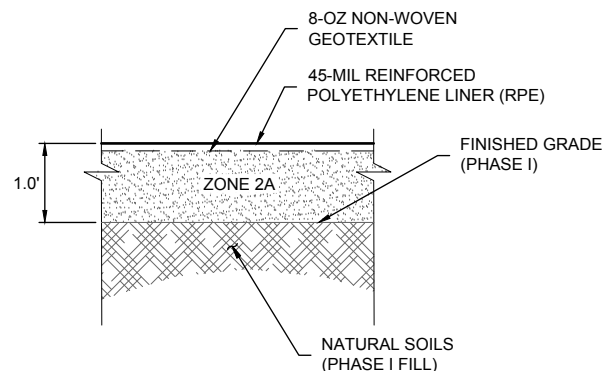
1 OVER-EXCAVATION OF EXISTING
COMPACTED CLAY LINER DETAIL



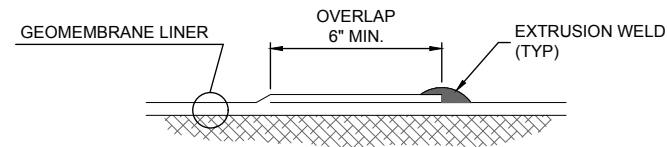
2 GEOCOMPOSITE OVERLAP DETAIL



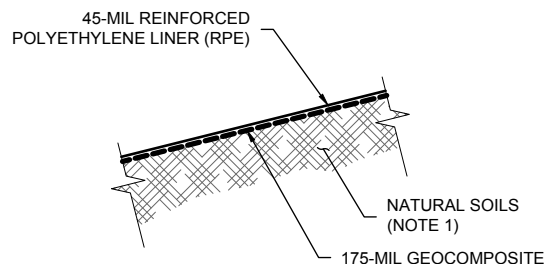
3 TYPICAL LINER AND ANCHOR TRENCH DETAIL



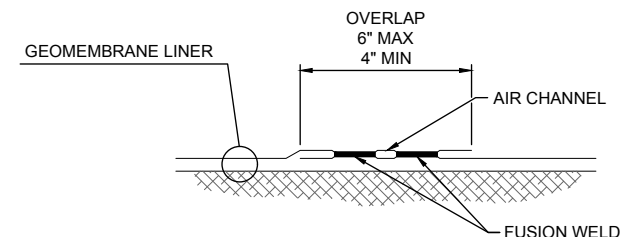
4 TYPICAL FLOOR DETAIL



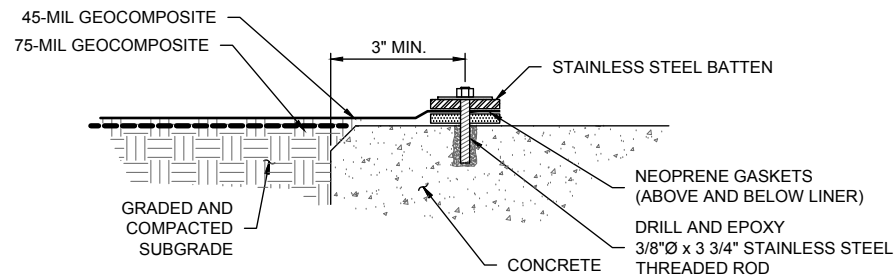
7 TYPICAL EXTRUSION WELD



5 TYPICAL SIDESLOPE DETAIL



8 TYPICAL FUSION WELD



6 TYPICAL STEEL BATTEN LINER
TERMINATION AT CONCRETE STRUCTURES
N.T.S.

DETAIL NOTES:

1. SLOPE MATERIALS UNDER LINER WILL VARY DEPENDING ON THE RESULTS OF RESERVOIR REMEDIATION AS DIRECTED BY THE ON-SITE GEOTECHNICAL ENGINEER OR GEOLOGIST.



PROJECT

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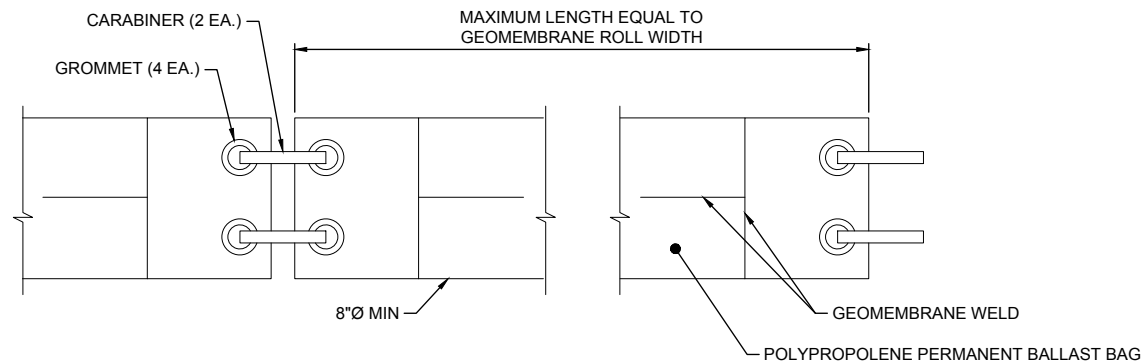
60567161

SHEET TITLE

LINER DETAILS
SHEET 1 OF 2

SHEET NUMBER

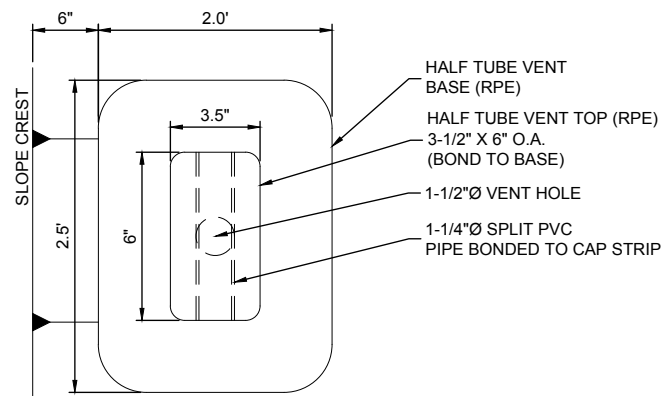
C2-07



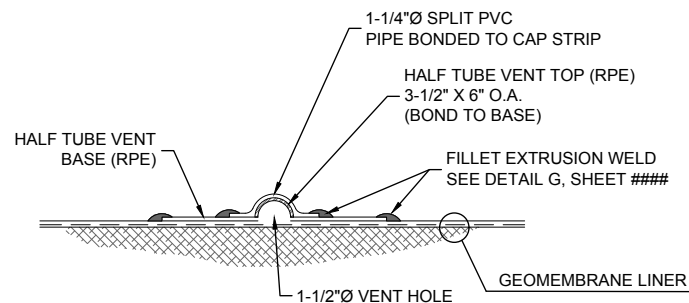
BALLAST TUBE NOTES:

1. CONSTRUCT CONTINUOUS BALLAST BY WELDING ENDS OF BALLAST BAG FLAT, PLACING GROMMETS (4), AND CONNECTING BAGS WITH CARABINERS (2) AT EACH CONNECTION.
2. CARABINERS SHALL HAVE SUFFICIENT STRENGTH TO SUPPORT THE WEIGHT OF EACH TUBE, AS APPROVED BY THE ENGINEER.
3. BAGS SHALL BE PLACED EVERY 30 FEET ON-CENTER (HORIZONTAL), HALF THE DISTANCE BETWEEN SUCTION VENTS.
4. FREE ENDS OF THE BALLAST BAG SHALL BE PLACED IN THE CREST ANCHOR TRENCHES PRIOR TO BACKFILLING.
5. BAGS SHALL BE FILLED WITH DRY EARTHEN MATERIAL TAKEN FROM OFF-SITE SOURCES.
6. BALLAST SIZE SHALL BE PER MANUFACTURER. EXTEND A MINIMUM OF 12" ON RESERVOIR BOTTOM.

9 BALLAST TUBE DETAIL
N.T.S.



PLAN VIEW

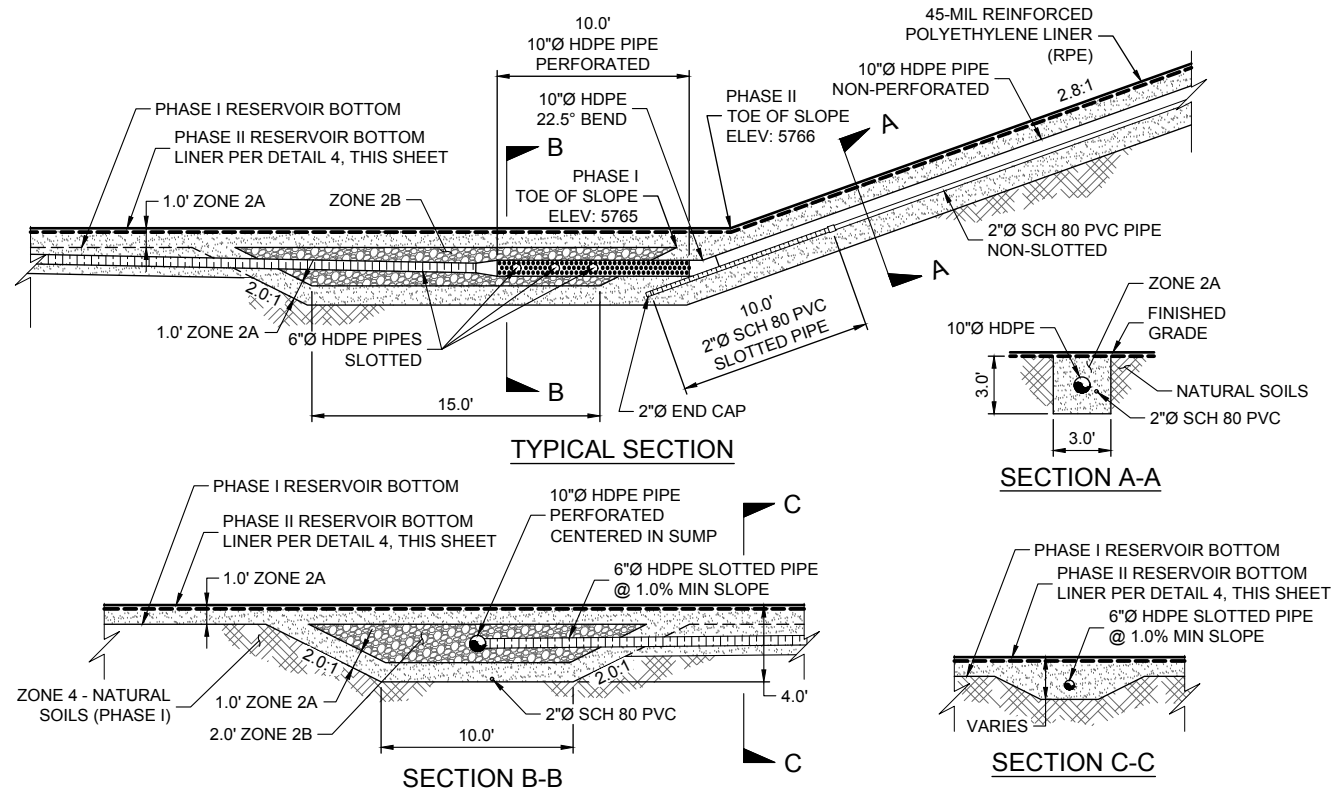


SECTION VIEW

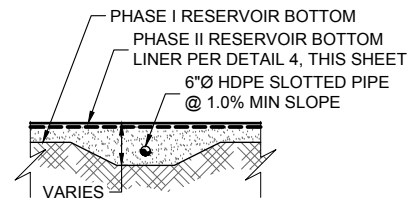
10 SUCTION VENT DETAIL

SUCTION VENT NOTES:

1. SUCTION VENTS SHALL BE PLACED 30 FEET ON-CENTER (HORIZONTAL) ALONG THE INTERIOR CREST OF THE POND. SEE PLAN FOR LIMITS.



11 UNDERDRAIN SUMP DETAIL



SECTION C-C

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SHEET TITLE

LINER DETAILS
SHEET 2 OF 2

SHEET NUMBER

C2-08