SOUTHERN SANDOVAL COUNTY
ARROYO FLOOD CONTROL
AUTHORITY

UPPER BOSQUE DE BERNALILLO
FLOOD MITIGATION PROJECT

DHSEM Federal Grant No.: EMT-2018-PC-0006 CFDA No.: 97.047
Funding Source: SAP 19-D2531-GF

CORONADO WATERSHED

SHEET INDEX

1. COVER SHEET
2. GENERAL NOTES
3. EXISTING SITE SURVEY
4. ALIGNMENT CONTROL
5. CHANNEL CROSS SECTIONS
6. PLAN & PROFILE STA. 10+00 - 18+00
7. PLAN & PROFILE STA. 18+00 - 21+48.54
8. ACCESS RAMP DETAILS
9. DROP STRUCTURE DETAILS
10. GENERAL SITE DETAILS
11. AMAFCA DETAIL
12. NMDOT STD. DWG. 511-80-1
13. NMDOT STD. DWG. 511-80-2
14. NMDOT STD. DWG. 511-80-3

APPROVALS

SSCAFCA: EXECUTIVE ENGINEER

TOWN OF BERNALILLO: DATE: 4/23/2020

DATE: 4/23/2020

DATE: 4/23/2020

PROJECT 

NMDOT STD. DWG. 511-80-1
NMDOT STD. DWG. 511-80-2
NMDOT STD. DWG. 511-80-3

TOWN OF BERNALILLO: DATE: 4/23/2020

EXECUTIVE ENGINEER

DATE: 4/23/2020

DATE: 4/23/2020

TOWN OF BERNALILLO: PUBLIC WORKS DEPARTMENT

DATE: 4/23/2020

EXECUTIVE ENGINEER

DATE: 4/23/2020

DATE: 4/23/2020
GENERAL NOTES:
1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO NMCDT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS, CURRENT EDITION.
2. ALL LININGS SHALL BE LINING "A" (THICKER ALLOWS EROSION 3/4", UNLESS OTHERWISE NOTED).
3. ALL REINFORCING BARS SHALL CONFORM TO ASHTO STANDARD SPECIFICATIONS M-31 GRADE 60, UNLESS OTHERWISE NOTED. DIMENSIONS REFER TO CENTER LINE OF BAR.
4. ALL REINFORCING BARS SHALL HAVE 2" CLEAR COVER UNLESS NOTED OTHERWISE.
5. DIMENSIONS SHALL NOT BE MODIFIED DURING CONSTRUCTION.
6. ALL RETAINING WALLS SHALL HAVE CONSTRUCTION JOINTS SPACED AT NO MORE THAN 30'-0" APART OR AS SHOWN. REINFORCING BARS SHALL PROJECT THROUGH THE JOINT.
7. ALL RETAINING WALLS SHALL HAVE EXPANSION JOINTS PROVIDED AT INTERVALS NOT EXCEEDING 90'-0"
8. FOOTINGS MAY BE CONTINUOUS WITH NO JOINT.
9. SPECIAL DESIGN IS REQUIRED WHEN "H" DIMENSION IS ABOVE 14 FEET.
10. COHESIVE SOILS OF SILT, CLAY, ETC. SHALL NOT BE USED FOR BACKFILL. THE BACKFILL SHALL BE FREE-DRAINING.
11. APPROPRIATE DRAINAGE PROVISIONS SHALL BE PROVIDED AS SHOWN ON THE LAYOUT DRAWINGS.
12. ALL EARTH WORK INCLUDING BACKFILL MATERIAL AND COMPACTION SHALL CONFORM TO SECTION 210 OF NMCDT STANDARD SPECIFICATIONS, CURRENT EDITION.
13. FOR H GREATER THAN 8 FEET, FOUNDATION EXPLORATION WILL BE REQUIRED TO VERIFY ADEQUATE FOUNDATION CONDITIONS.
14. THE LOCATIONS OF NEEDED CONSTRUCTION JOINTS ARE EITHER SHOWN OR THE PLANS OR TO BE DIRECTED OR APPROVED BY THE PROJECT MANAGER.

DESIGN DATA
DESIGN ACCORDING TO ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, THIRD EDITION, 2004.
CLASS "A" CONCRETE: fc' = 3000 psi
GRADE B2 REINFORCING STEEL: fy' = 60,000 psi
HORIZONTAL EARTH PRESSURE = 26 LBS./CU. FT. EQUIVALENT FLUID PRESSURE.
WEIGHT OF BACKFILL = 120 LBS./CU. FT.
WEIGHT OF CONCRETE = 145 LBS./CU. FT.
ANGLE OF INTERNAL TRACTION OF EXISTING GROUND = 29°
FACTORED RETAINING CAPACITY qr = 5.0 TONS/SQ. FT. IS USED FOR THE DESIGN ON THESE DRAWINGS.

DRAINAGE DETAILS AND EXCAVATION DIAGRAM
NOTE A: STOP COURSE AGGREGATE AT THIS LEVEL WHEN WEPE HOLLERS ARE USED.
NOTE B: USE COURSE AGGREGATE TO HEMP WITH SUBSURFACE DRAINAGE GEOTEXTILES ABOVE WHEN PIPE UNDERDRAIN IS USED.

CANTILEVER RETAINING WALL
(CASE 1 - LEVEL FILL)
GENERAL NOTES:
SECTION & ELEVATIONS
DESIGNED BY: DR. SHEET 12 OF 14
GENERAL NOTES:
1. STRUCTURAL STEEL SHALL CONFORM TO ASTM A 250 UNLESS OTHERWISE NOTED ON THE DETAILS, AND SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASHTO M 111.

2. BEFORE AND AFTER THE CONCRETE OF THE WALL IS PLACED, THE CONTRACTOR SHALL ENSURE THAT THE CENTER LINE OF ALL POURED AREAS ARE ALWAYS KEPT LEVELLED AND 6" AWAY FROM THE OUTSIDE FACE OF THE WALL, AS SHOWN IN THIS DRAWING.

3. THE ATTACHMENT AND INSTALLATION OF 1/2" ULTRASIL CELL FOAM AND EXPANSION ASSEMBLIES SHALL BE CONSIDERED INCIDENTAL TO THE COST OF RETAINING WALL CONSTRUCTION AND NO DIRECT PAYMENT WILL BE MADE THERFORE.

ELEVATION VIEW

SECTION B-B

EXPANSION ASSEMBLY DETAIL

DOWEL SLEEVE DETAIL

DOWEL DETAIL

1. 2" CLOSED CELL FOAM
2. 1" STEEL PIPE X 0'-10" PLUG END
3. #6 X 1'-6" DOWEL @ 18"
4. 3/4" CIRCULAR HOLE
5. 3/4" CLOSED CELL FOAM
6. 3/4" DOWEL SLEEVE DETAIL
7. INSIDE FACE
8. OUTSIDE FACE
9. ELECTRICAL TAPE AS REQUIRED TO INSURE THE CENTERING OF THE DOWEL IN THE SLEEVE.