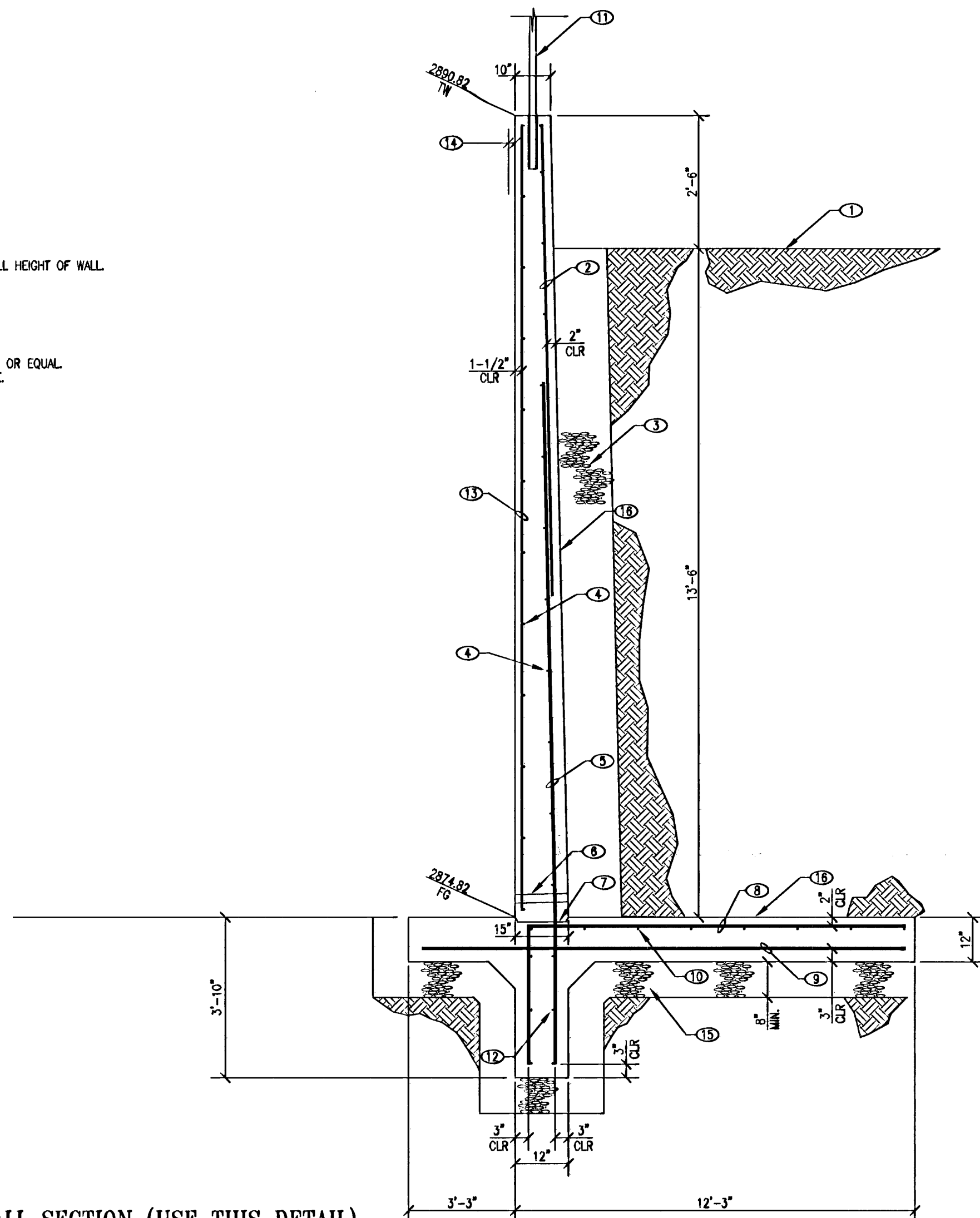


KEY NOTES

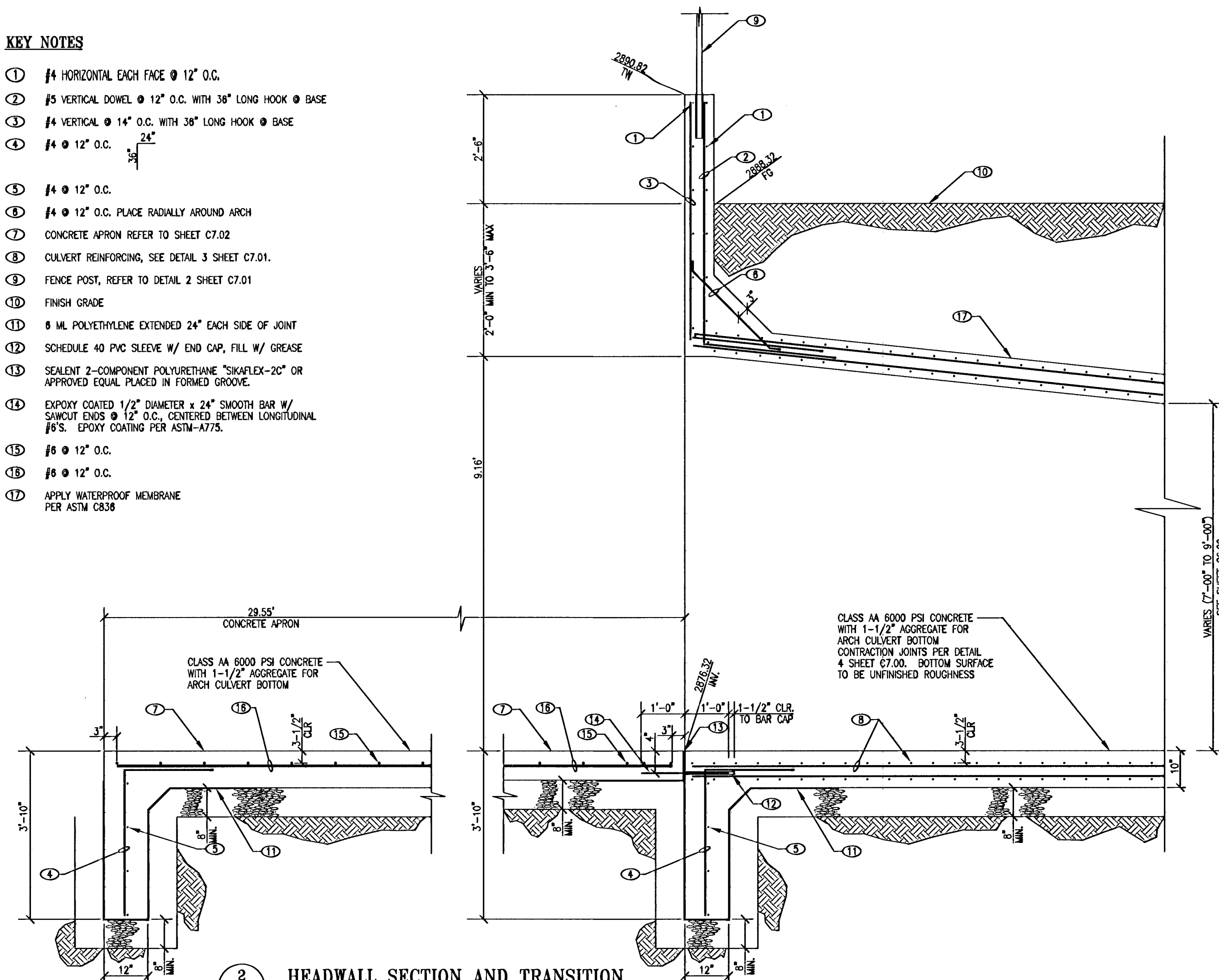
- ① FINISH GRADE
- ② #5 VERTICAL @ 12" O.C. INSIDE FACE
- ③ PROVIDE 12" MINIMUM FREE DRAIN GRANULAR BACKFILL FULL HEIGHT OF WALL
- ④ #4 HORIZONTAL @ 14" O.C. EACH FACE
- ⑤ #5 VERTICAL @ 8'-0" @ 4" O.C.
- ⑥ 2" DIAMETER WEEP HOLE @ 4'-0" O.C. MAX OR MINIDRAIN OR EQUAL PROVIDE SLOTTED END CAP ON EARTH SIDE OF WEEP HOLE
- ⑦ KEY SIZE: 1-1/2" DEEP x 10-1/2" WIDE
- ⑧ #5 @ 4" O.C.
- ⑨ #5 @ 12" O.C.
- ⑩ #5 CONTINUOUS @ 10" O.C.
- ⑪ FENCE POST, REFER TO DETAIL 3 SHEET C7.00.
- ⑫ #4 CONTINUOUS @ 12" O.C. EACH FACE
- ⑬ #5 VERTICAL @ 18" O.C. OUTSIDE FACE
- ⑭ 1-1/2" BATTER
- ⑮ SUBGRADE BEDDING PER GEOTECHNICAL INVESTIGATION
- ⑯ APPLY WATERPROOF MEMBRANE PER ASTM C838



1 WING WALL SECTION (USE THIS DETAIL)
NTS

KEY NOTES

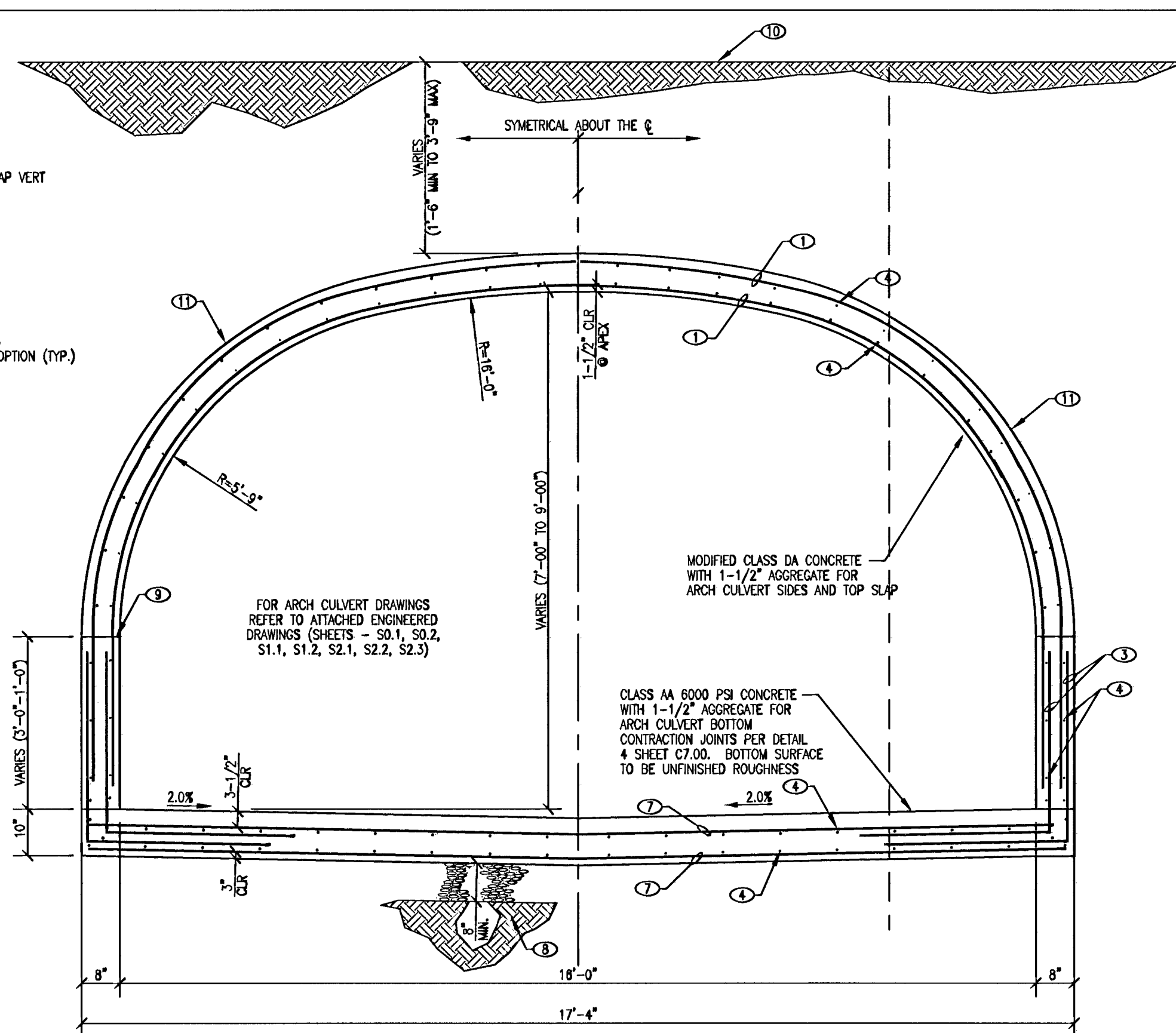
- ① #4 HORIZONTAL EACH FACE @ 12" O.C.
- ② #5 VERTICAL DOWEL @ 12" O.C. WITH 36" LONG HOOK @ BASE
- ③ #4 VERTICAL @ 14" O.C. WITH 36" LONG HOOK @ BASE
- ④ #4 @ 12" O.C.
- ⑤ #4 @ 12" O.C.
- ⑥ #4 @ 12" O.C. PLACE RADIALLY AROUND ARCH
- ⑦ CONCRETE APRON REFER TO SHEET C7.02
- ⑧ CULVERT REINFORCING, SEE DETAIL 3 SHEET C7.01.
- ⑨ FENCE POST, REFER TO DETAIL 2 SHEET C7.01
- ⑩ FINISH GRADE
- ⑪ 8 ML POLYETHYLENE EXTENDED 24" EACH SIDE OF JOINT
- ⑫ SCHEDULE 40 PVC SLEEVE W/ END CAP, FILL W/ GREASE
- ⑬ SEALANT 2-COMPONENT POLYURETHANE "SIKAFLEX-2C" OR APPROVED EQUAL PLACED IN FORMED GROOVE
- ⑭ EPOXY COATED 1/2" DIAMETER x 24" SMOOTH BAR W/ SAWCUT ENDS @ 12" O.C., CENTERED BETWEEN LONGITUDINAL #6'S. EPOXY COATING PER ASTM-A775.
- ⑮ #6 @ 12" O.C.
- ⑯ #6 @ 12" O.C.
- ⑰ APPLY WATERPROOF MEMBRANE PER ASTM C838



2 HEADWALL SECTION AND TRANSITION
NTS

KEY NOTES

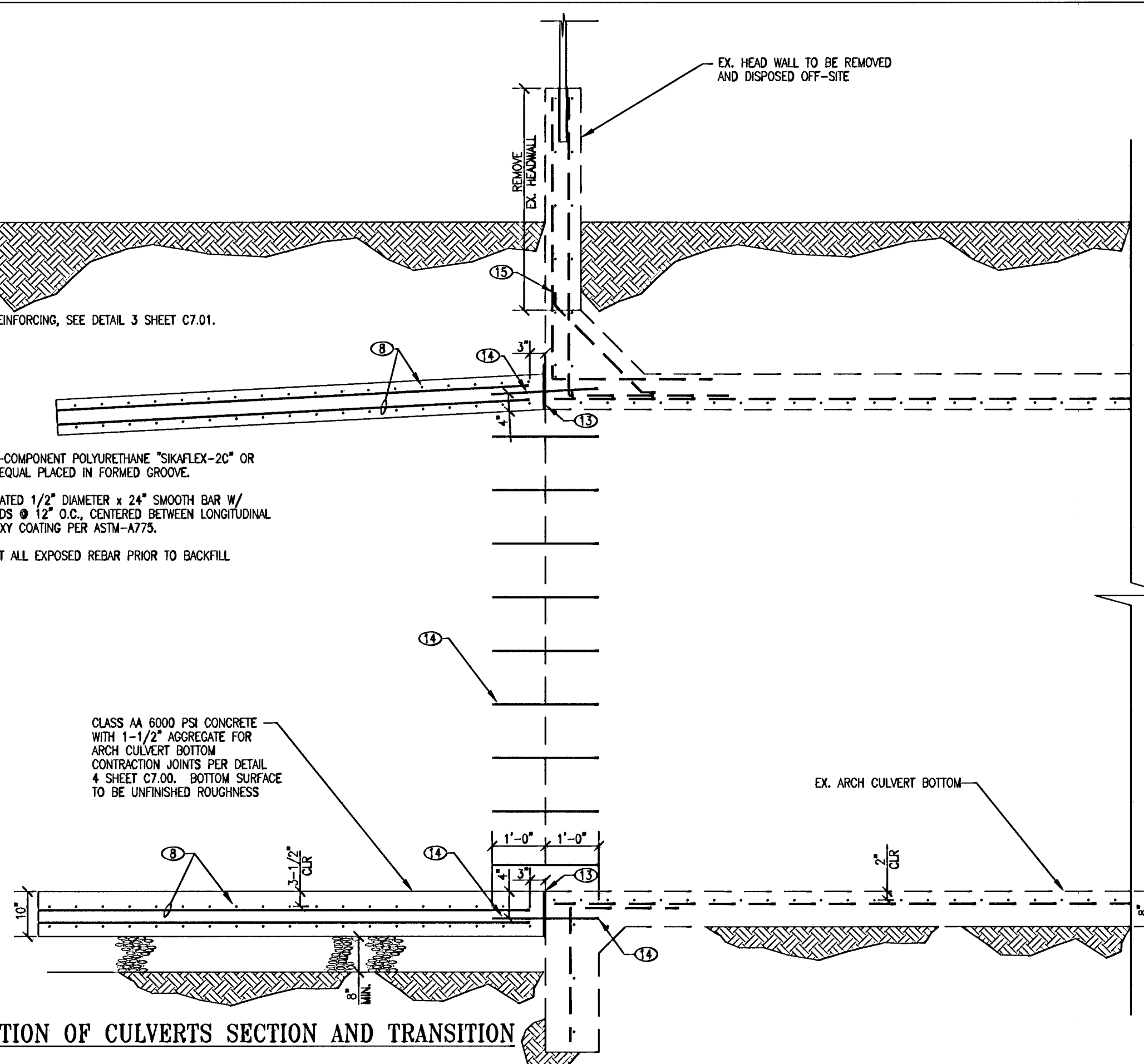
- ① #4 @ 8" O.C. TRANSVERSE
- ② NOT USED
- ③ #5 DOWEL @ 8" O.C. W/48" HOOK IN FLOOR, STD LAP VERT
- ④ #4 @ 8" O.C. LONGITUDINAL
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ #4 @ 8" O.C. TRANSVERSE
- ⑧ 8" COMPACTED TYPE II AB
- ⑨ ROUGHENED CONSTRUCTION JOINT, AT CONTRACTORS OPTION (TYP)
- ⑩ FINISH GRADE
- ⑪ APPLY WATERPROOF MEMBRANE PER ASTM C838



3 TYPICAL CULVERT SECTION (DETAIL NOT USED)
NTS

KEY NOTES

- ① NOT USED
- ② NOT USED
- ③ NOT USED
- ④ NOT USED
- ⑤ NOT USED
- ⑥ NOT USED
- ⑦ NOT USED
- ⑧ CULVERT REINFORCING, SEE DETAIL 3 SHEET C7.01.
- ⑨ NOT USED
- ⑩ NOT USED
- ⑪ NOT USED
- ⑫ NOT USED
- ⑬ SEALANT 2-COMPONENT POLYURETHANE "SIKAFLEX-2C" OR APPROVED EQUAL PLACED IN FORMED GROOVE
- ⑭ EPOXY COATED 1/2" DIAMETER x 24" SMOOTH BAR W/ SAWCUT ENDS @ 12" O.C., CENTERED BETWEEN LONGITUDINAL #6'S. EPOXY COATING PER ASTM-A775.
- ⑮ EPOXY COAT ALL EXPOSED REBAR PRIOR TO BACKFILL
- ⑯ NOT USED
- ⑰ NOT USED



4 CONNECTION OF CULVERTS SECTION AND TRANSITION
NTS

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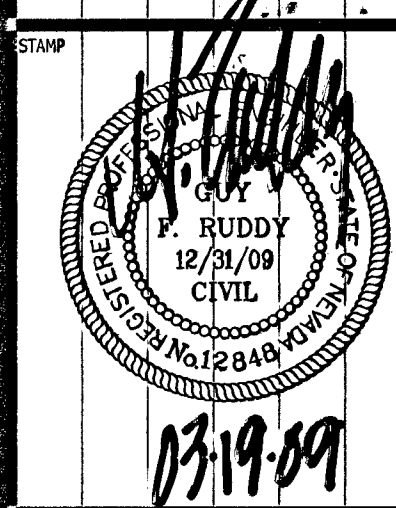
Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE ALERT (U.S.A.)

Avoid overhead power line contact.
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NEVADA POWER ENVIRONMENT & SAFETY SERVICES DEPARTMENT

NOTICE !
EXISTING UTILITIES ARE LOCATED ON THE PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE LOCATION OF UTILITIES SHOWN OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES BEFORE STARTING CONSTRUCTION AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.

Avoid cutting underground utilities. It's costly.
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GOWAN LONE MOUNTAIN SYSTEM
CLIFF SHADOWS PARK
DRAINAGE STRUCTURE NOTES,
SECTIONS AND DETAILS



OWNER: CITY OF LAS VEGAS
DEPARTMENT OF PUBLIC WORKS
ARCHITECTURAL SERVICES

400 EAST STEWART AVENUE
LAS VEGAS, NEVADA 89101
PHONE: (702) 229-8533
FAX: (702) 384-4840
TDD: (702) 386-9108

DRAWN: gfr
FILE: C:\01\204arch
DATE: MARCH 2009
SCALE: NA
SHEET NO: 22
CLV DWG NO: 65083
SHEET NO: C7.01

RECORD DRAWING