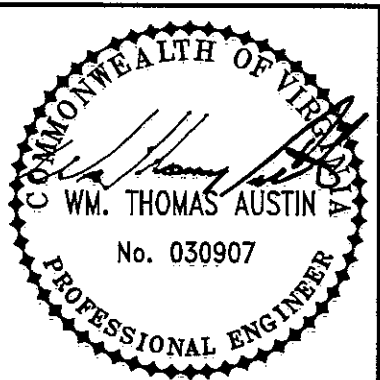
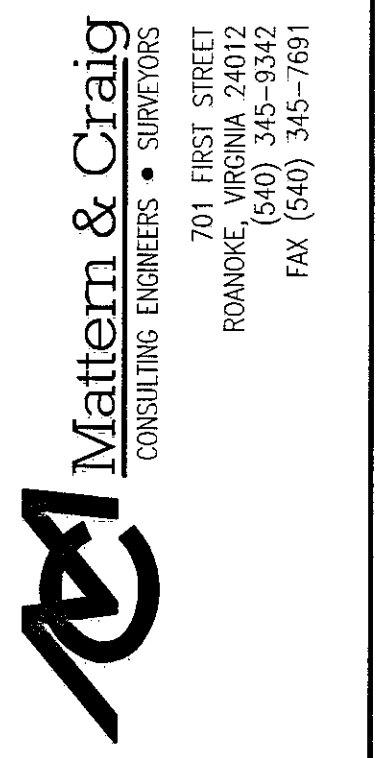




Revisions	Date

Commission No.: 1823	Drawn By: JPR	Checked By: WTA	Date: 9/28/01	Project Coordinator: WTA
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WAL-MART STORE #3243-00
STRUCTURAL DETAILS -
BOX CULVERT EXTENSION
ROANOKE COUNTY, VIRGINIA

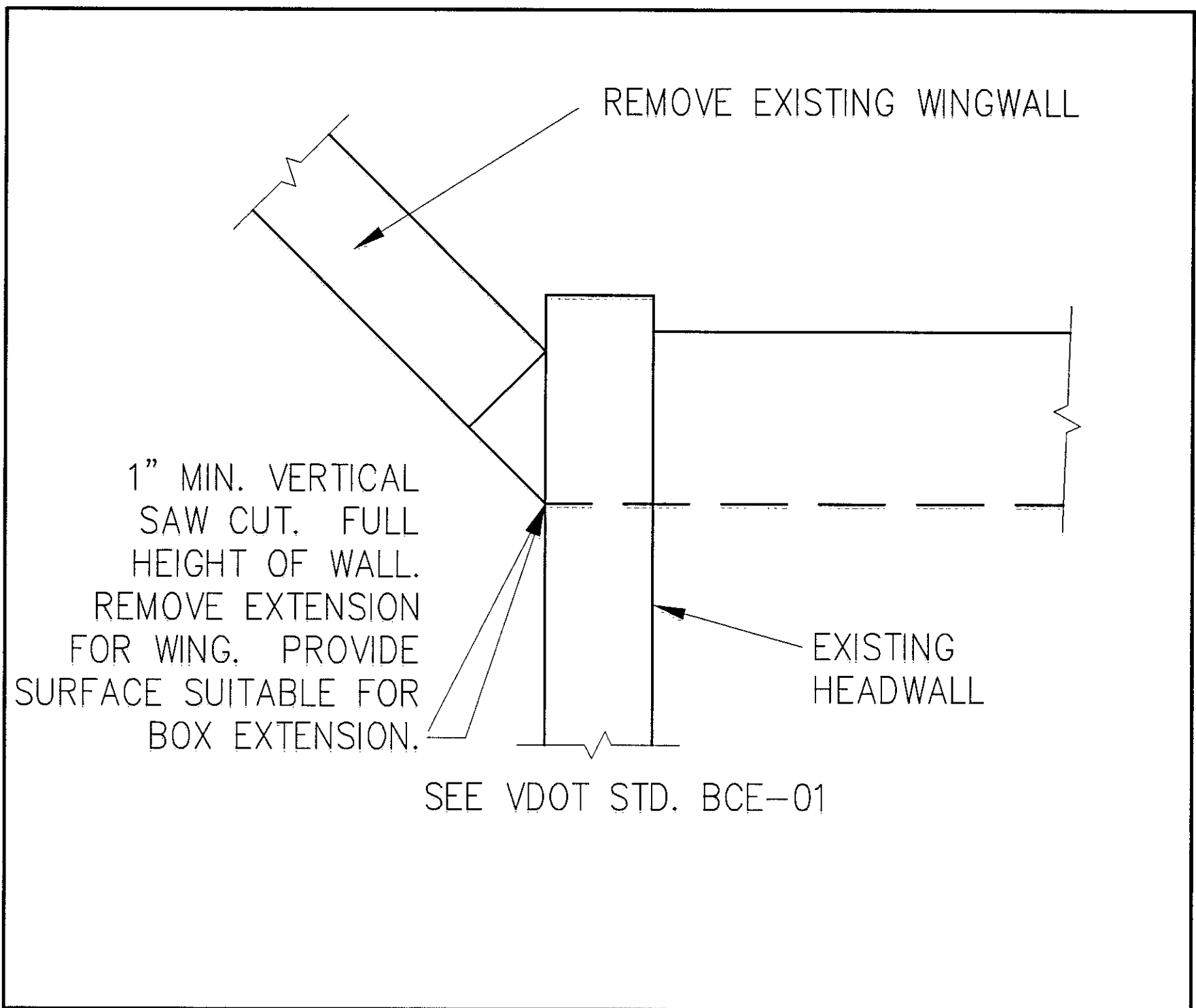
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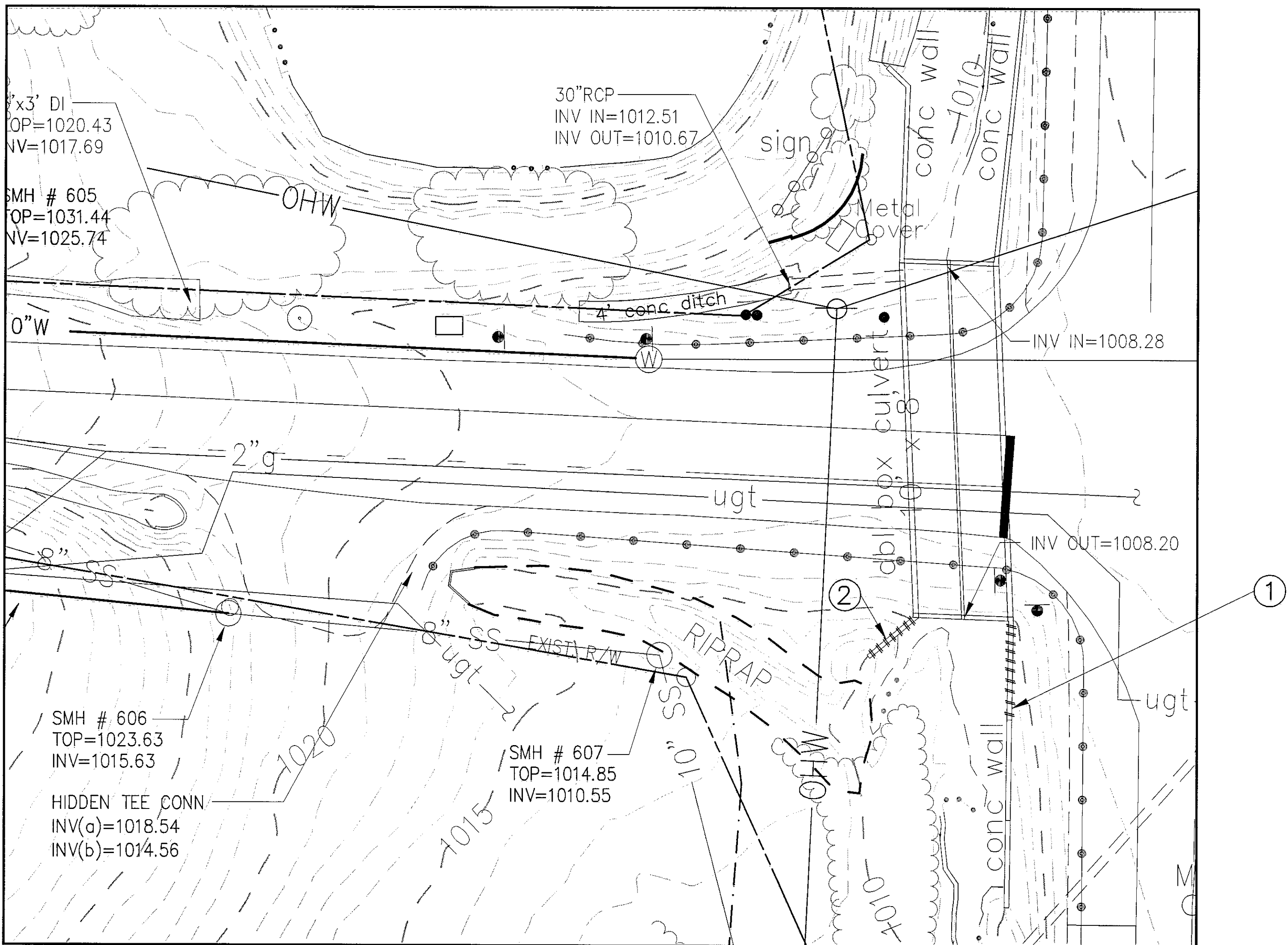
Issue Date:
9/28/01

Sheet No.:

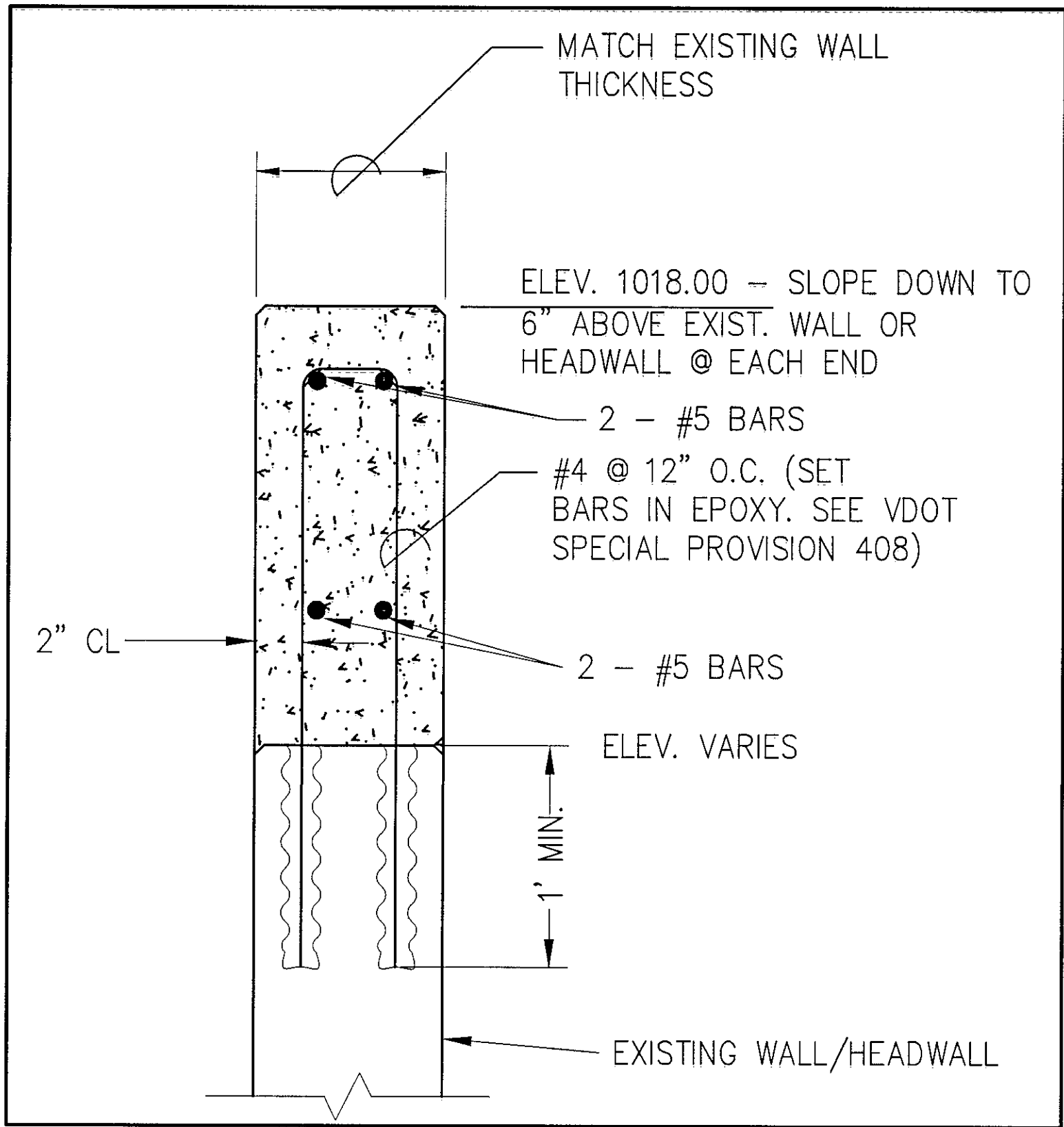
C-49



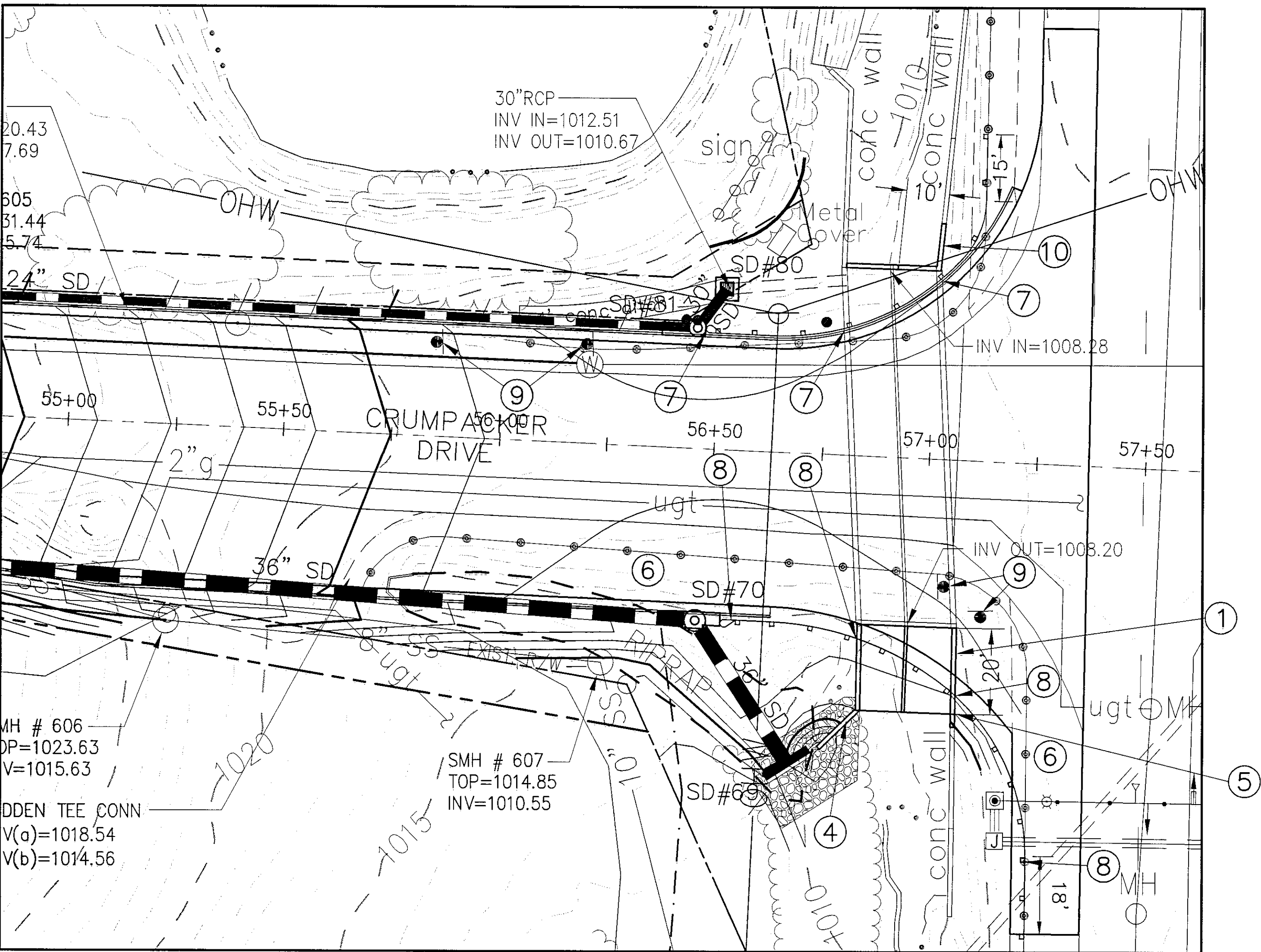
DETAIL 1
NTS



DEMOLITION PLAN
SCALE: 1" = 20'



WALL EXTENSION DETAIL AT INLET
NTS



LAYOUT PLAN
SCALE: 1" = 20'

DEMOLITION LEGEND

REMOVE EXISTING CULVERT WALLS

DEMOLITION PLAN KEYNOTES:

- 1 REMOVE EXISTING RW-3 IN ITS ENTIRETY FROM OUTLET OF DOUBLE 10 x 8 TO FIRST CONSTRUCTION JOINT, 23 ±. SHORING WILL BE REQUIRED TO PROTECT CLOVERDALE ROAD & CRUMPACKER DRIVE. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, BARRICADES, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- 2 REMOVE EXISTING WINGWALL & WING EXTENSION FROM BOX. SEE DETAIL 1 THIS SHEET.

LAYOUT PLAN KEYNOTES:

- 1 DOUBLE 10 x 8 VDOT STD. BOX BCD-05 WITH CURTAIN WALL. TIE TO EXISTING DOUBLE 10 x 8 AND MATCH EXISTING INVERT. INSTALL HYDROPHILIC EXPANSION JOINT MATERIAL IN CONSTRUCTION JOINT. USE ADEKA ULTRA SEAL MC-2010MN, GREENSTREX HYDROTITE-CJ-1030-4M OR APPROVED EQUAL, TYPICAL.
- 2 ALIGN NEW DOUBLE BOX CULVERT WITH EXISTING RETAINING WALL. SEE DEMOLITION PLAN.
- 3 SLOPE CULVERT EXTENSION AT THE RATE OF 0.5% IN THE DIRECTION OF FLOW.
- 4 1 - VDOT STD. BCW-11 WING WALL REQ'D. 20 C.Y. CLASS II RIP RAP IN FRONT OF WINGWALL AND SD#69 AND 5 C.Y. CLASS I RIP RAP BEHIND WINGWALL REQUIRED.
- 5 FILL BETWEEN CULVERT EXTENSION AND EXISTING RETAINING WALL WITH STD. RW-3. INSTALL HYDROPHILIC EXPANSION MATERIAL IN CONSTRUCTION JOINT.
- 6 EXISTING GUARDRAIL MAY BE LEFT IN PLACE CONSTRUCTION OF BOX CULVERT EXTENSION. REMOVE GUARDRAIL AS CALLED OUT ON SHEET C-41 ONCE WORK ON BOX CULVERT IS COMPLETE.
- 7 STA. 56+49, 27.0' LT. BEGIN VDOT STD. GR-2 GUARDRAIL. STA. 56+29, 29.5' RT. BEGIN VDOT TEXAS T-6 GUARDRAIL. STA. 57+01, 42.0' LT. END VDOT TEXAS T-6 GUARDRAIL. STA. 57+11, 76.0' LT. END VDOT STD. GR-2 AND CONNECT TO EXISTING GUARDRAIL.
- 8 STA. 56+57, 39.5' RT. BEGIN VDOT STD. GR-2 GUARDRAIL. STA. 56+85, 42.5' RT. END GR-2, BEGIN VDOT TEXAS T-6 GUARDRAIL. STA. 57+09, 54.5' RT. END VDOT TEXAS T-6, BEGIN VDOT STD. GR-2. STA. 57+26, 109.0' RT. END VDOT STD. GR-2, CONNECT TO EXISTING GUARDRAIL.
- 9 CONTRACTOR SHALL COORDINATE RELOCATION OF STREET SIGNS WITH THE VIRGINIA DEPARTMENT OF TRANSPORTATION.
- 10 EXTEND WINGWALL AND HEADWALL IN ACCORDANCE WITH WALL EXTENSION DETAIL AT INLET AS SHOWN HEREON.