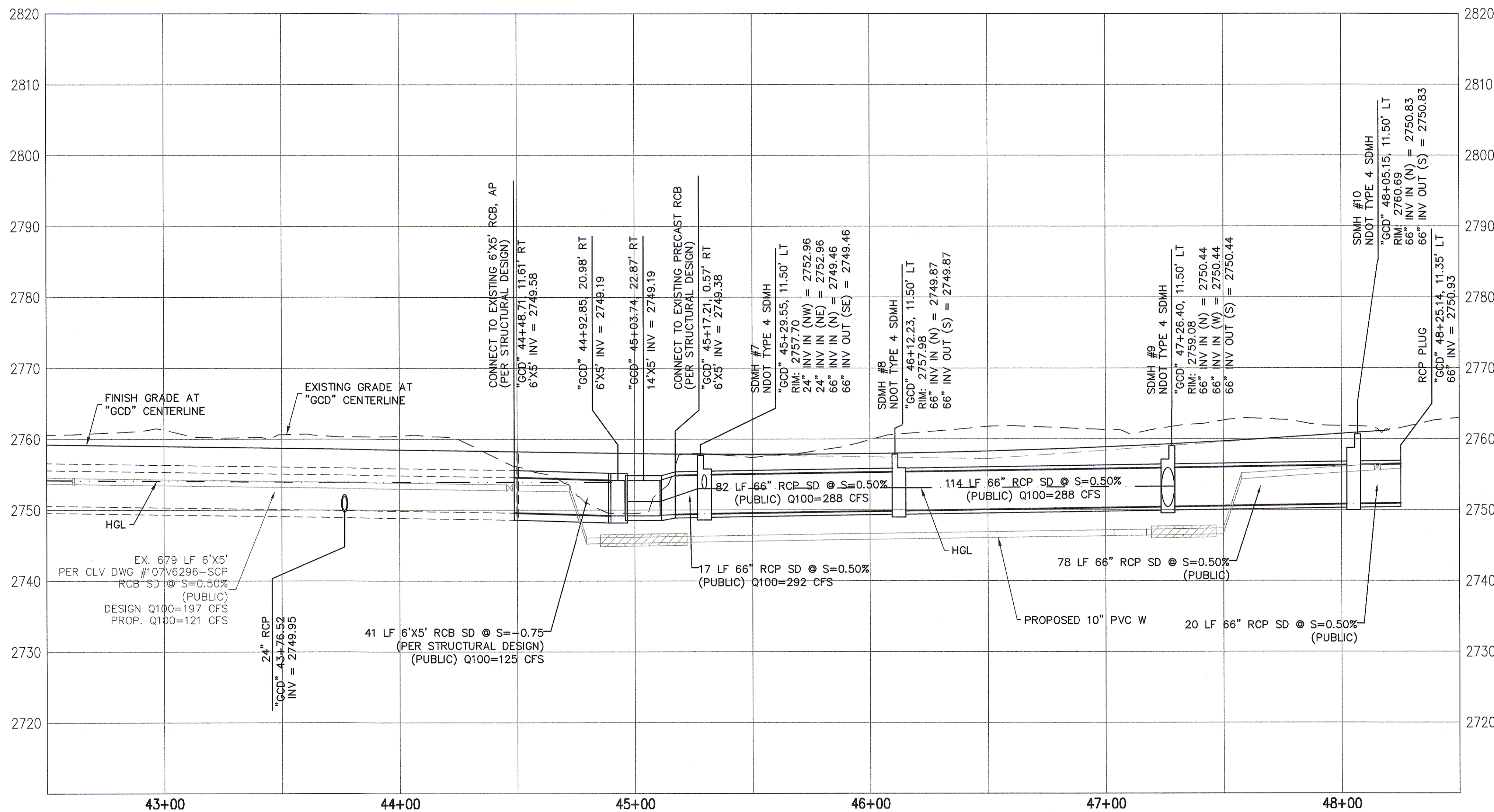
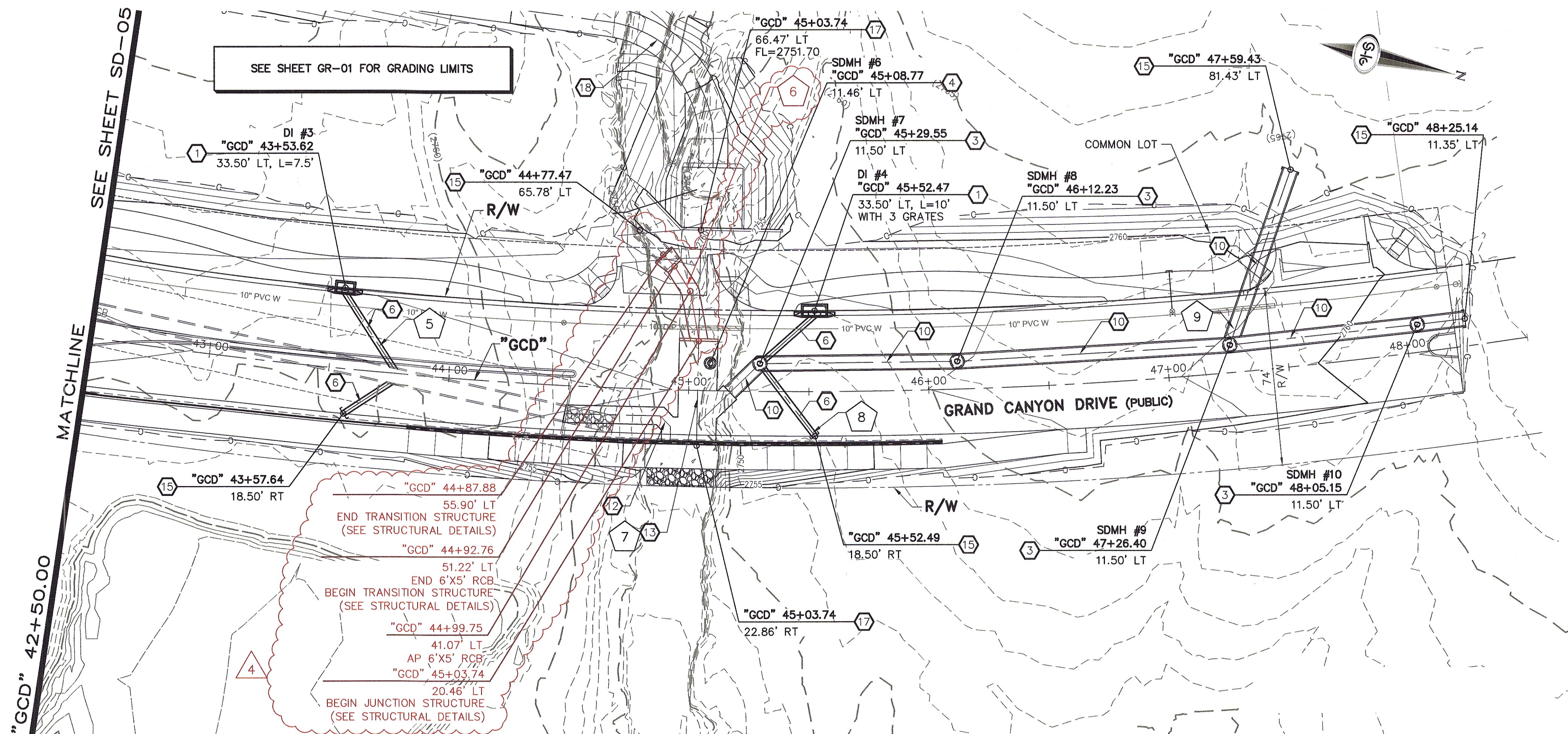




- ### STORM DRAIN NOTES
1. CONSTRUCT TYPE "CM2" DROP INLET (USDCCA STD. DWG. NO. 412.1 & 421)
 2. CONSTRUCT 60" TYPE III MANHOLE (USDCCA STD. DWG. NO. 406.1)
 3. CONSTRUCT NDOT TYPE 4 MANHOLE (NDOT STD. PLAN R-4.3.2)
 4. CONSTRUCT RCB ACCESS MANHOLE PER STRUCTURAL DETAIL
 5. INSTALL 18" RCP OR WATER QUALITY C905 AS SHOWN ON PROFILES (USDCCA STD. DWG. NO. 503.2)
 6. INSTALL 24" RCP OR WATER QUALITY C905 AS SHOWN ON PROFILES (USDCCA STD. DWG. NO. 503.2)
 7. INSTALL 30" RCP (USDCCA STD. DWG. NO. 503.2)
 8. INSTALL 54" RCP (USDCCA STD. DWG. NO. 503.2)
 9. INSTALL 60" RCP (USDCCA STD. DWG. NO. 503.2)
 10. INSTALL 66" RCP (USDCCA STD. DWG. NO. 503.2)
 11. INSTALL 72" RCP (USDCCA STD. DWG. NO. 503.2)
 12. CONSTRUCT 6' X 5' RCB (PER STRUCTURAL DETAIL)
 13. CONSTRUCT 14' X 5' RCB (PER STRUCTURAL DETAIL)
 14. PIPE PENETRATION DETAIL PER STRUCTURAL DETAILS
 15. CONSTRUCT BRICK AND MORTAR PLUG (SEE DETAIL 1, DRAWING SD-09)
 16. CONSTRUCT MANHOLE PER STRUCTURAL DETAILS
 17. CONSTRUCT HEADWALL PER STRUCTURAL DETAIL W/POST AND CABLE FENCE, SEE DETAIL 2, DRAWING SD-09
 18. MAINTENANCE ACCESS PATH (SEE GR-01 FOR GRADING PLAN)

- ### NOTES
1. ALL RCP SHALL BE CLASS III UNLESS OTHERWISE SHOWN.
 2. ALL PIPE LENGTHS ARE MEASURED ALONG PIPE CENTERLINE TO CENTER OF MANHOLE OR INSIDE EDGE OF DI OR RCB/RCA.
 3. ALL DROP INLETS SHALL INCLUDE STORM WATER MANAGEMENT STAMP AND DETAIL PER USDCCA STD. DWG. NO. 421.
 4. SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL DETAILS AND CONNECTIONS.
 5. ALL PIPES ARE PUBLICLY MAINTAINED.
 6. ADD SPECIAL INSPECTION REQUIRED FOR PIPE SEGMENTS WITH SACRIFICIAL CONCRETE.

DROP INLET NOTE

WHERE 10 FEET PARALLEL SEPARATION IS NOT PRACTICABLE:
CAST-IN-PLACE MONOLITHIC POUR WITH WATERSTOP BETWEEN SLAB AND WALLS. BASE, WALLS AND TOP TO BE CONSTRUCTED WITH WATERSTOPS, CENTER BULB, OR FLAT STRIP (VINYLEX, GREENSTREAK PLASTIC PRODUCTS OR APPROVED EQUAL).

LEGEND

1 STORM DRAIN LATERAL # (SEE SHEETS SD-07 THRU SD-09)

I CERTIFY THAT THIS GRADING PLAN IS IN CONFORMANCE WITH THE APPROVED TECHNICAL DRAINAGE STUDY (DS-4786 ON FILE AT THE CITY OF LAS VEGAS FOR THE SUBJECT PROJECT)

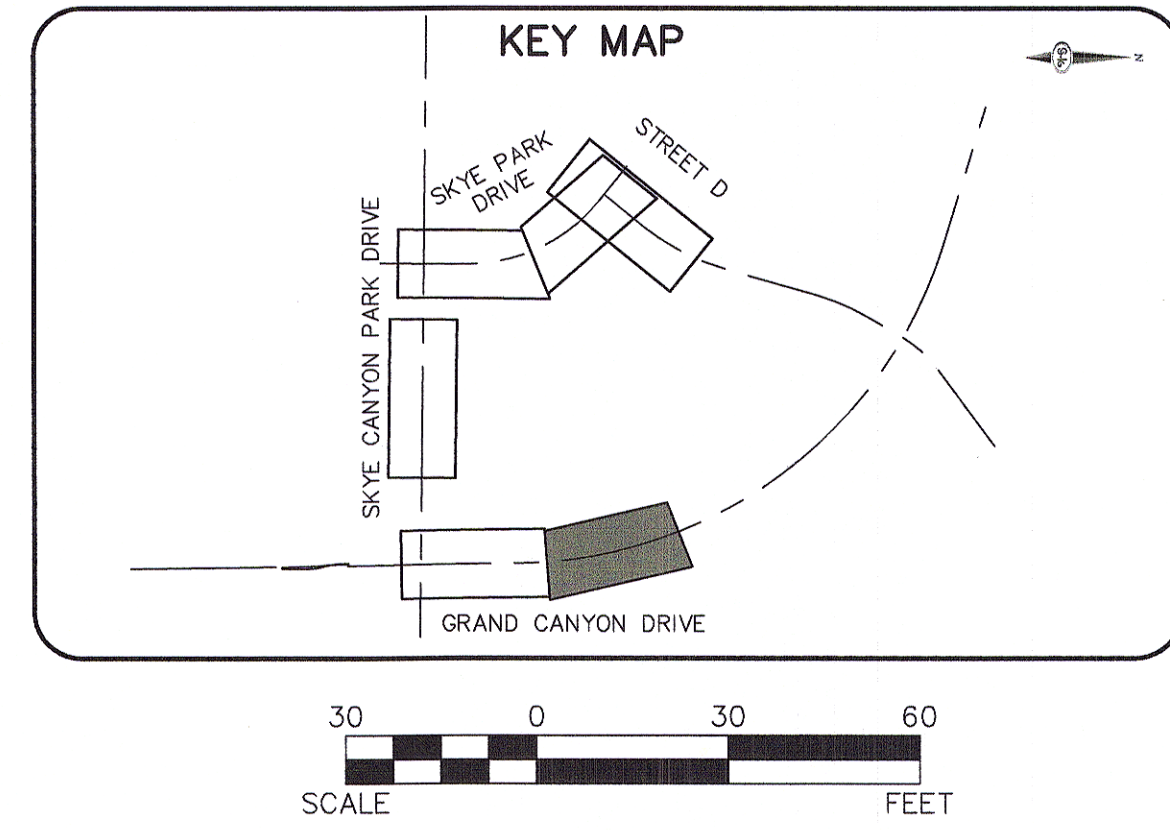
JERRY SLATER, P.E. 14167 DATE 10/17/17

NOTE:

PROPERTY OWNER IS RESPONSIBLE TO MAINTAIN THE BEST MANAGEMENT PRACTICES, SUCH AS BUT NOT LIMITED TO, THE REMOVAL OF ACCUMULATED SEDIMENT AND DEBRIS AND CARE OF VEGETATION.

APPROVED FOR CONSTRUCTION

L'VWD ENGINEERING SERVICES MANAGER DATE
PROJECT NO. 124707



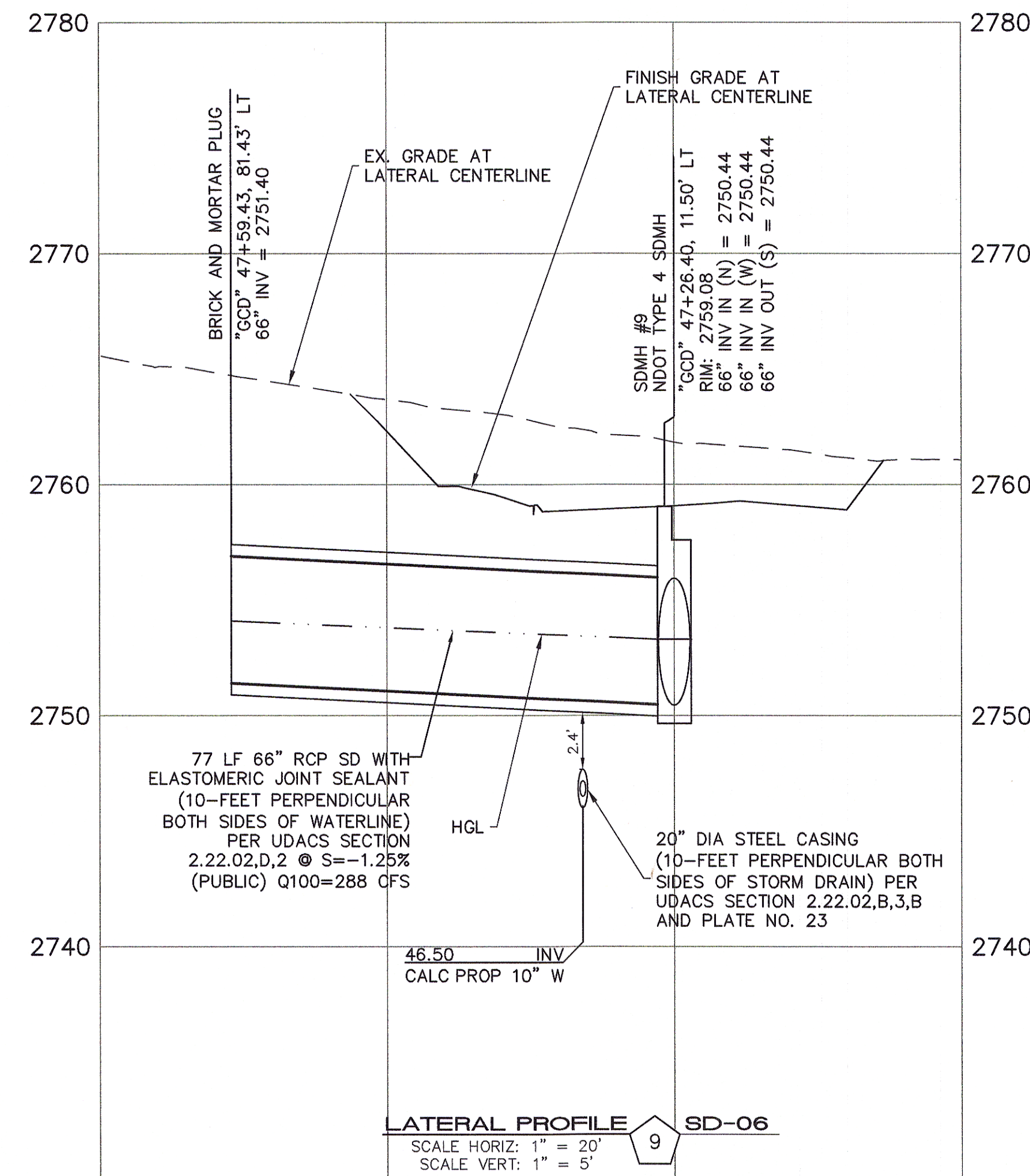
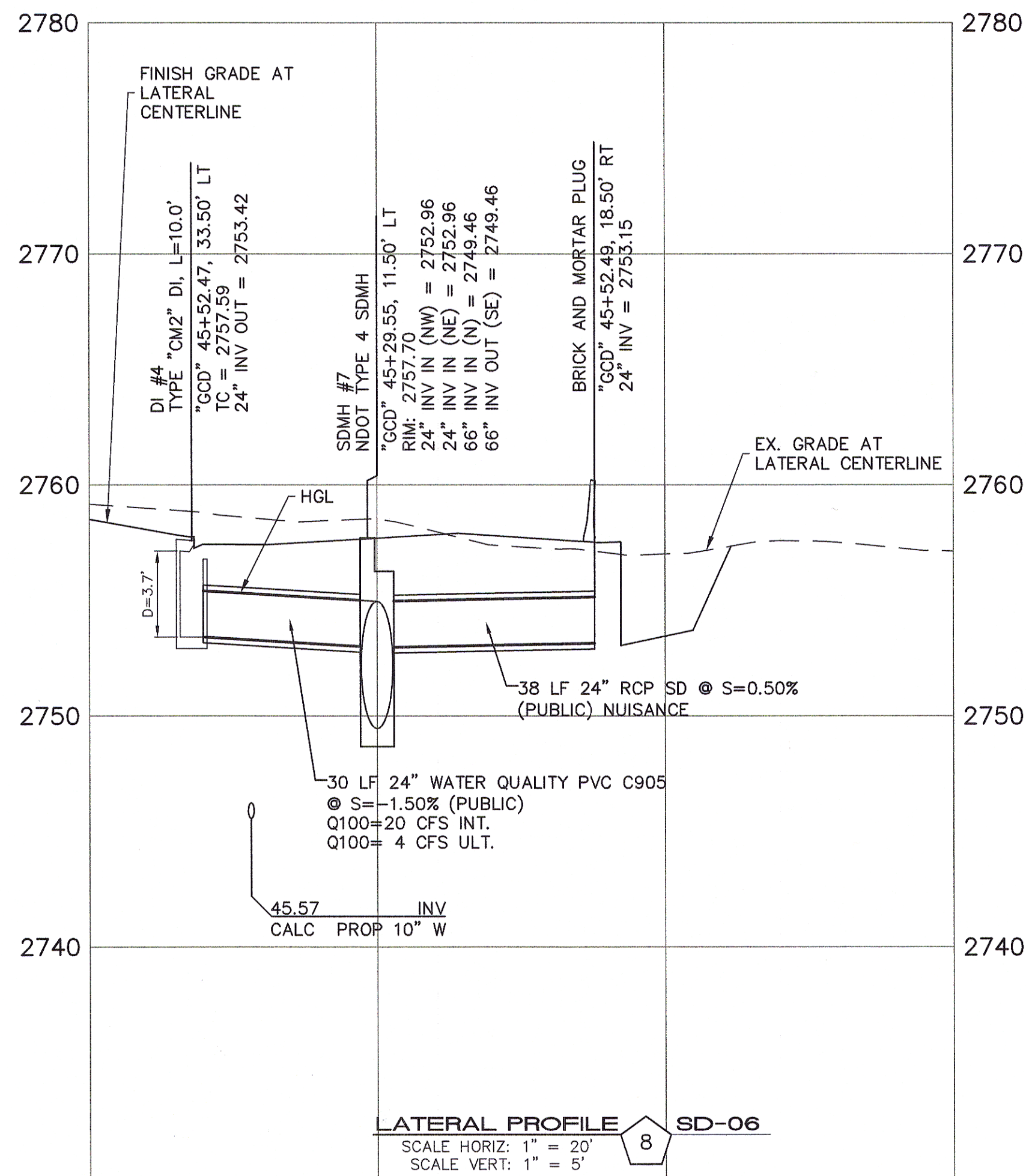
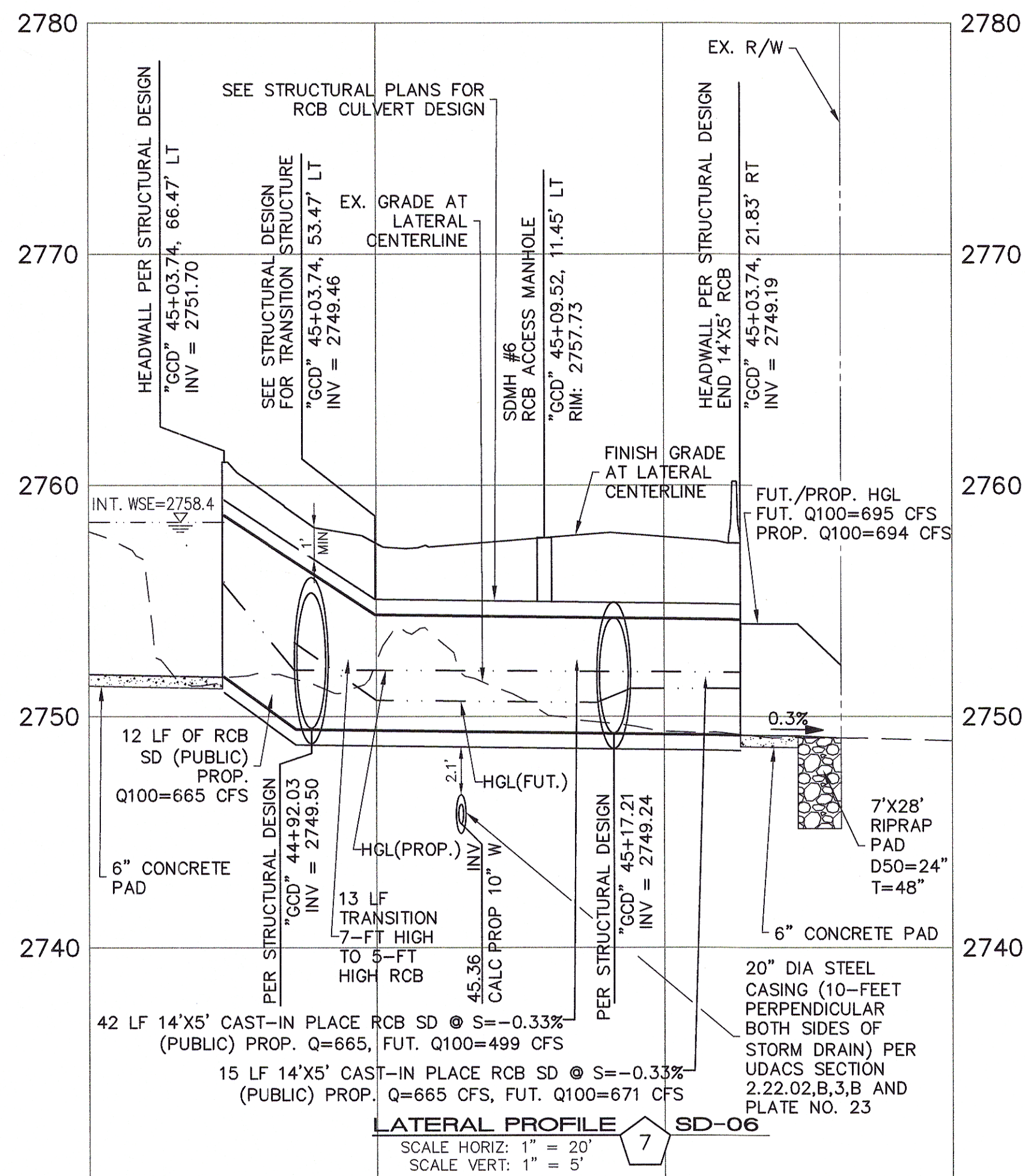
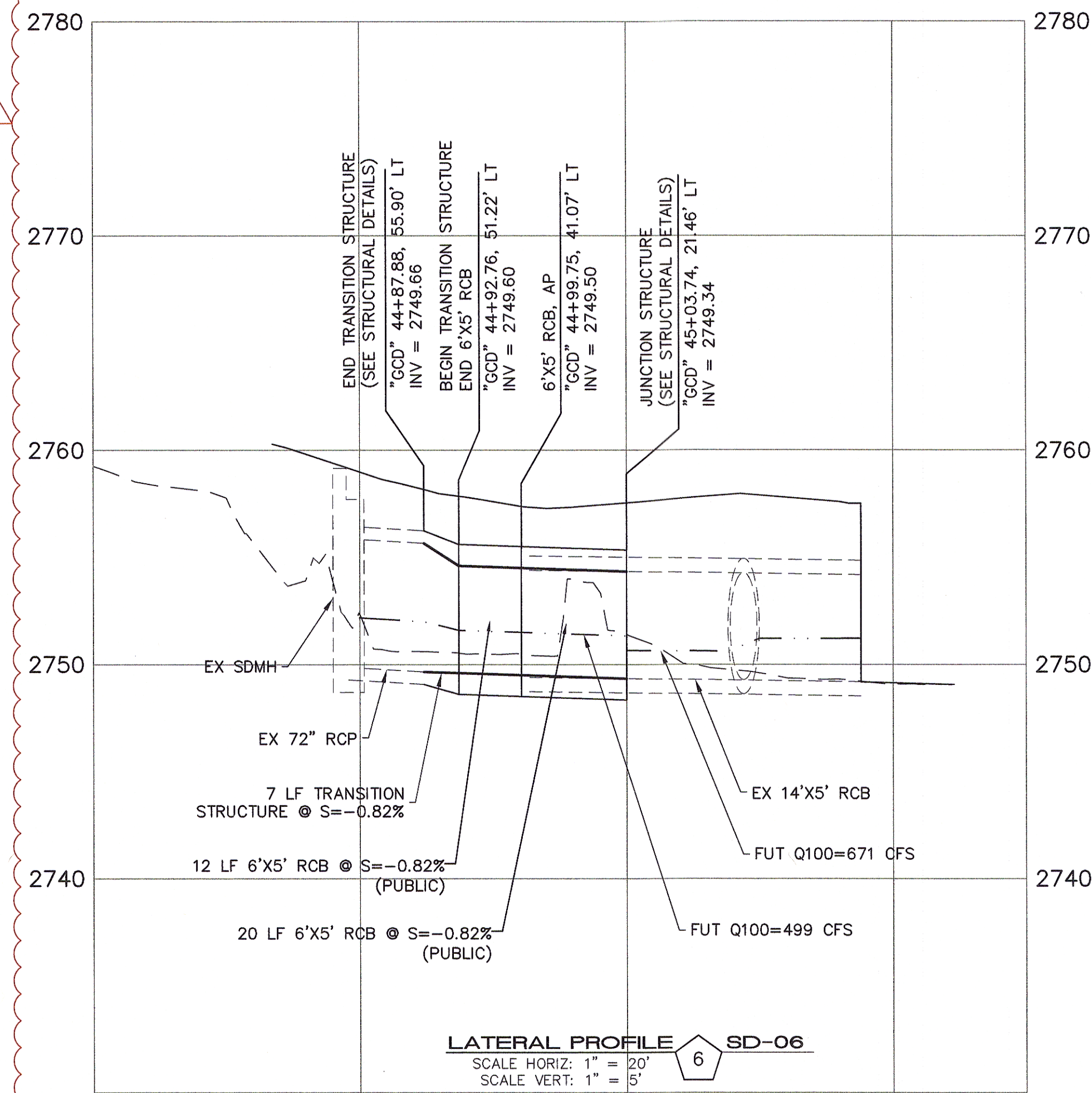
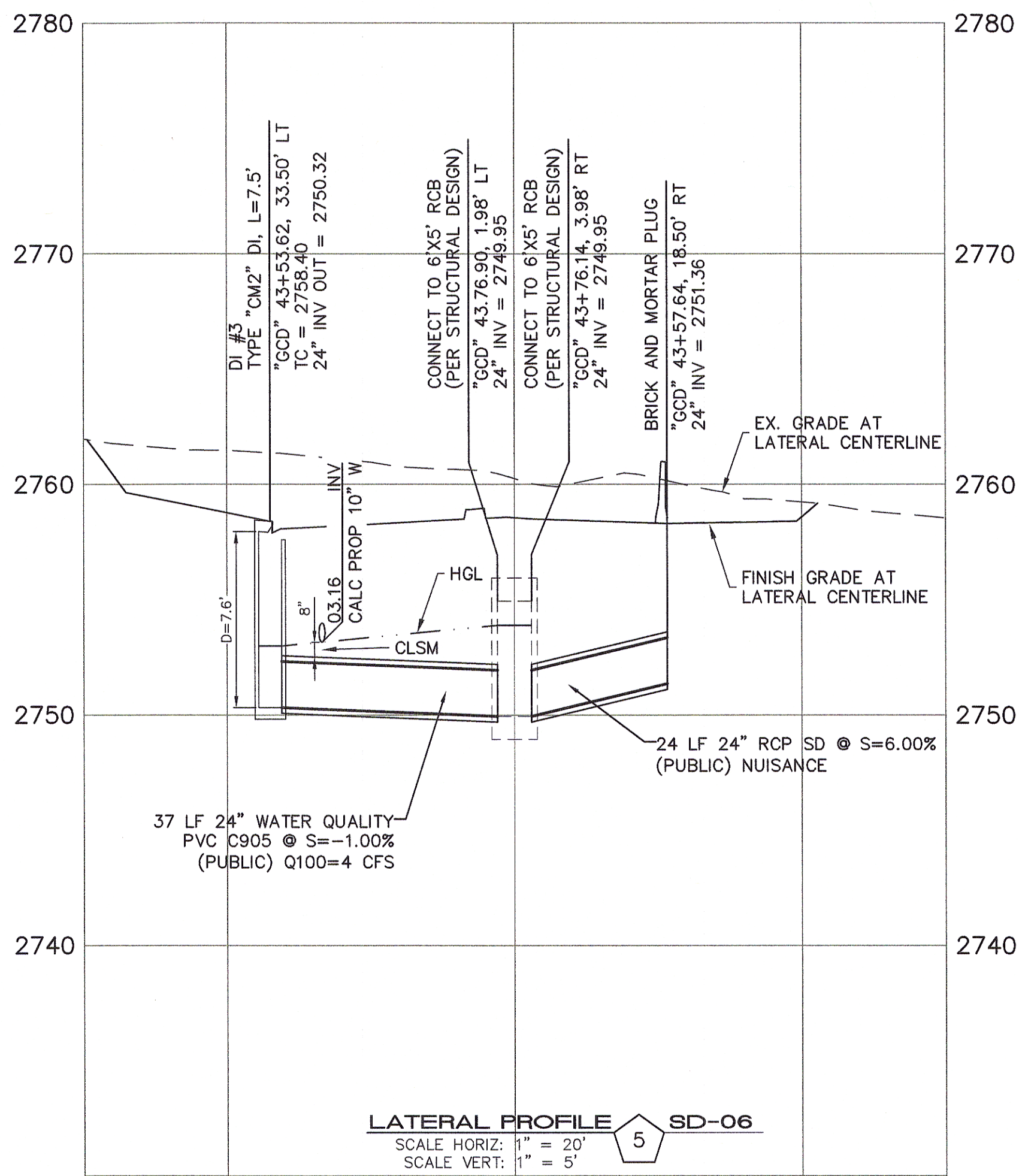
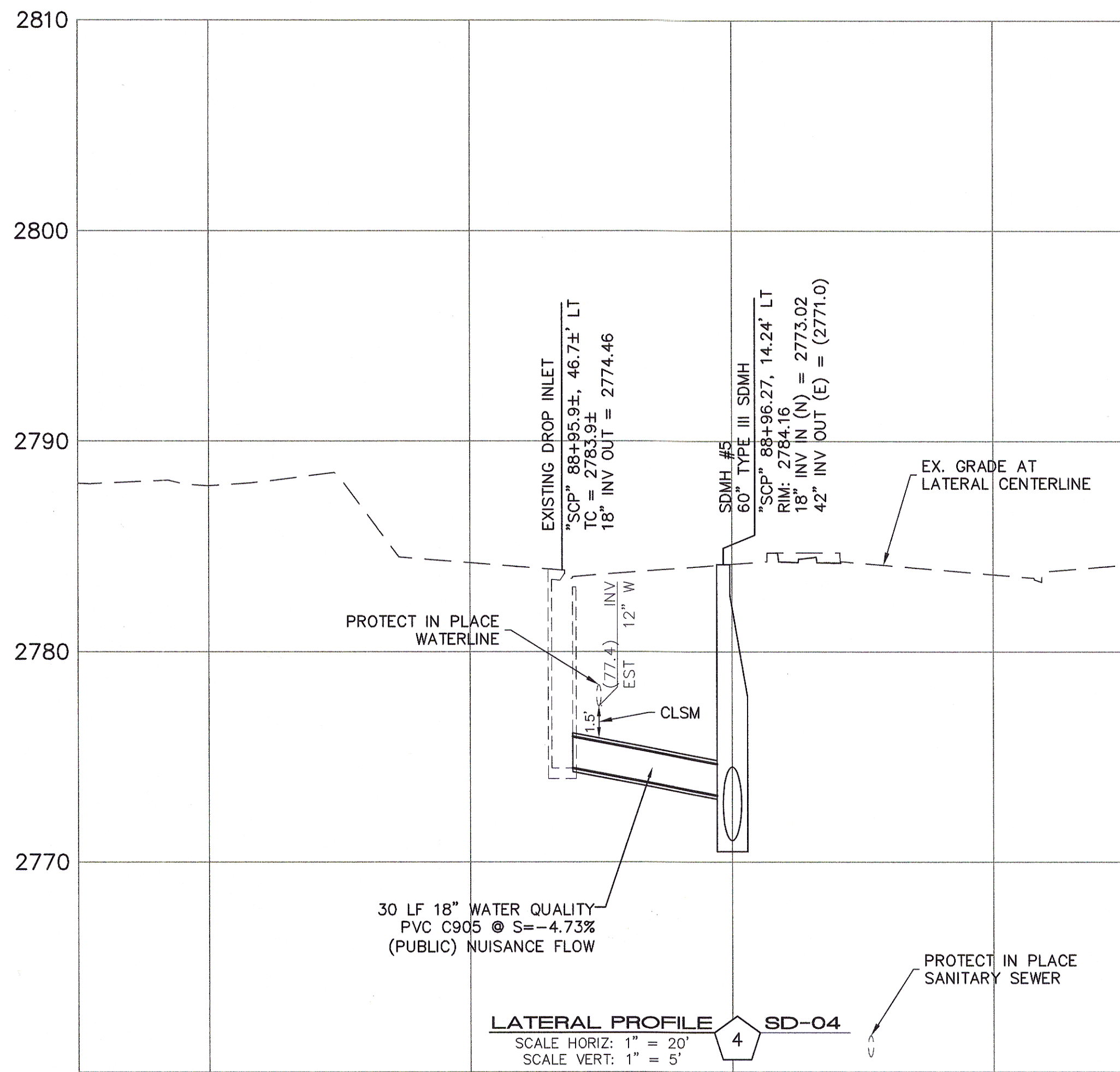
SLATER HANIFAN GROUP
CONSULTING ENGINEERS & PLANNERS
5740 S. ARVILLE STREET #216, LAS VEGAS, NV 89118
PHONE (702) 284-5300 FAX (702) 284-5399

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON II PHASE 3
GRAND CANYON DRIVE
STORM DRAIN PLAN AND PROFILE - "GCD" 42+50.00 TO "GCD" 48+50.00

DATE: 11/17/16
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR
PROJECT NO. **OLY1602-000**

SD-06
SHEET 24 OF 57
DWG NO. 107Y5044



CONTROLLED LOW STRENGTH MATERIAL (CLSM)

PROTECT WATERLINES IN PLACE. WHEREVER A WATERLINE IS ABOVE A STORM DRAIN OR SEWER WHERE COMPACTION REQUIREMENTS UNDER A WATERLINE CANNOT BE MET, BACKFILL WITH CLASS II CONTROLLED LOW STRENGTH MATERIAL (CLSM) TO THE SPRINGLINE OF THE WATERLINE. THIS REQUIREMENT IS FOR STRUCTURAL SUPPORT ONLY. ADDITIONAL HEALTH REGULATIONS MAY APPLY PER UDACS 2.22.

APPROVED FOR CONSTRUCTION

LVVMD ENGINEERING SERVICES MANAGER
PROJECT NO. 124707

INSTALL WATERLINE IN STEEL CASING PER UDACS PLATES NO. 21 OR 22 AND 23. MINIMUM 18-INCH CLEARANCE IS REQUIRED ABOVE THE TOP OF THE CASING. FROM THE UPPER BENDS THROUGHOUT THE LOWERED SECTION OF THE PIPE, DUCTILE IRON PIPE WITH RESTRAINED JOINTS IS REQUIRED. IN ADDITION, THRUST BLOCKS ARE TO BE INSTALLED AT THE UPPER BENDS.

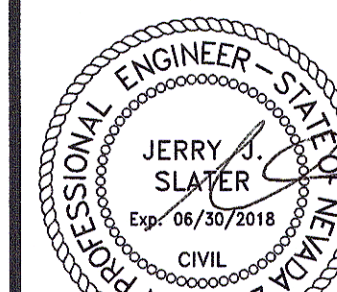
ANNUAL SPACE BETWEEN PIPE AND CASING SHALL BE FILLED WITH CLASS 1 CLSM. SEE UDACS PLATES 16, 17, 18, AND 19, FOR BEDDING AND BACKFILL REQUIREMENTS.

NINETY-FIVE MANAGEMENT LLC

SKYE CANYON II PHASE 3
STORM DRAIN LATERAL PROFILE

DATE: 11/17/16
DRAFTER: DAM
DESIGNER: DAM
CHECKED: JSR

PROJECT NO.
OLY1602-000



SD-08

SHEET 26 OF 57

DWG NO. 107Y5044

SLATER HANIFAN GROUP
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