

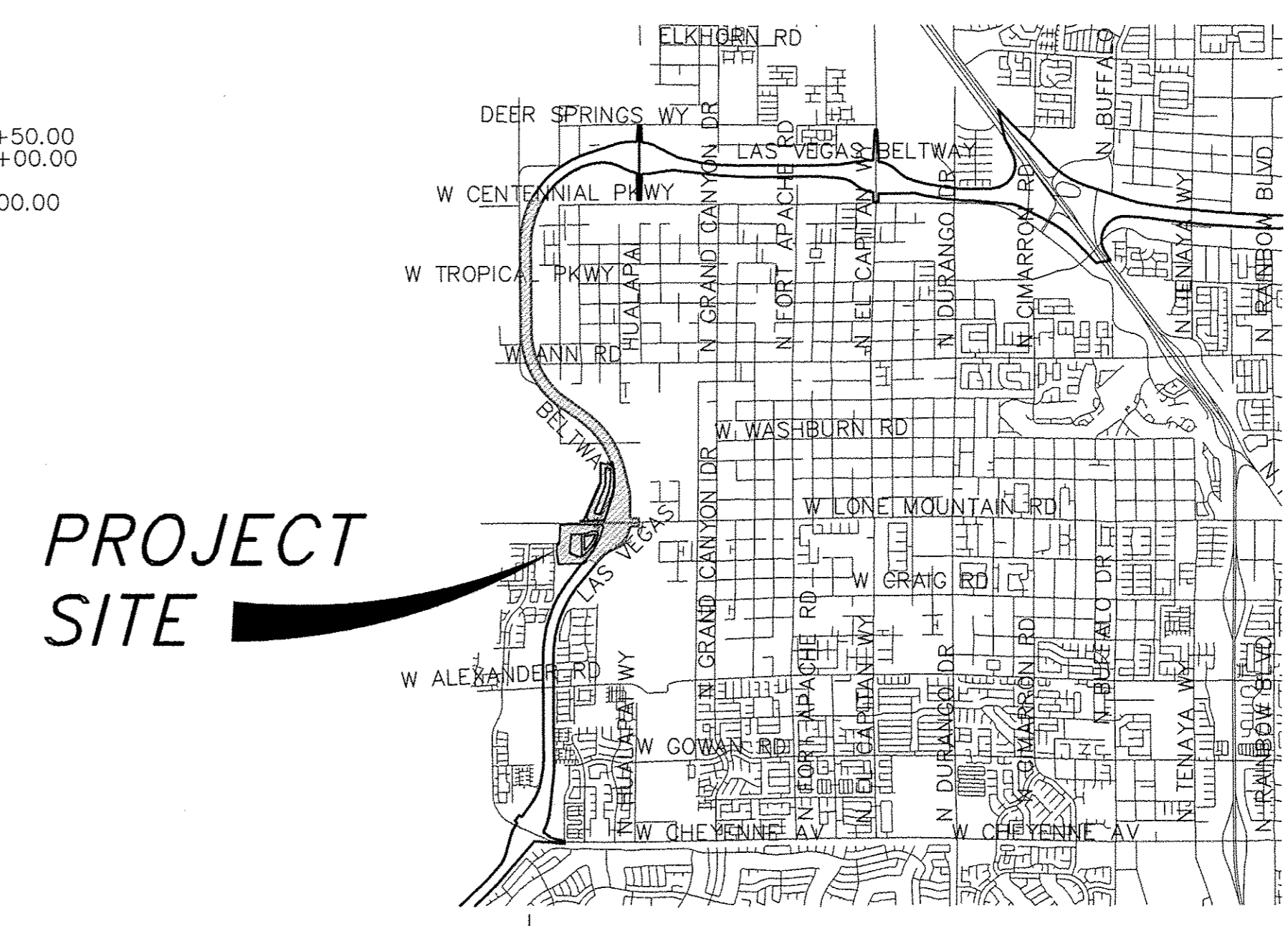
**Key Map**  
SCALE: 1" = 1000'

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RS8	SDPD-1 PEACEFUL DAWN TRANSITION STRUCTURE STA 12+20.19 TO STA 12+58.61
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RS13	SDLM-1 TRANSITION/INLET STRUCTURE SDLM-1 & -2 LINES STA 10+36.26 TO STA 14+22.59
RS14	SECTIONS AND DETAILS SDLM-1 & SDLM-3 LINES STA 13+55.18 TO STA 14+22.59
RS15	SDLM-1 DROP STRUCTURE STA 18+31.95 TO STA 18+43.95
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RS27	GBWC CONFLUENCE STRUCTURE STA 759+90.59 TO STA 760+69.59
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RS31	"SDNDB-B3" NORTH BASIN TRANSITION/INLET STRUCTURE SECTIONS AND DETAILS
RS32	CONCRETE RETAINING WALL DETAILS



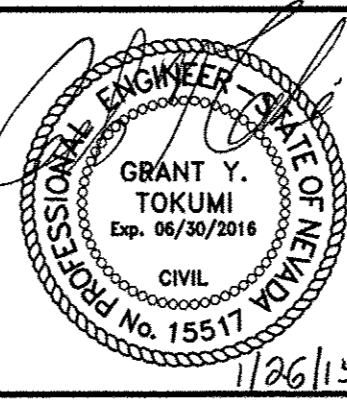
**Location Map**  
NOT TO SCALE

**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT LVWD PROJECT #107164 DATE \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
REGIONAL FLOOD CONTROL IMPROVEMENTS  
INDEX OF DRAWINGS, KEY MAP AND LOCATION MAP  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 491 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

**REMOVAL NOTES**

- 1 REMOVE RIPRAP
- 2 REMOVE STORM DRAIN
- 3 REMOVE HEADWALL
- 4 ABANDON STORM DRAIN IN PLACE
- 5 REMOVE STATIONARY BOLLARD
- 6 REMOVE CURB AND GUTTER
- 7 REMOVE SIDEWALK
- 8 REMOVE DROP INLET
- 9 REMOVE MANHOLE
- 10 SAWCUT
- 11 REMOVE ASPHALT CONCRETE PAVEMENT
- 12 TIE INTO EXISTING INLET
- 13 PROTECT-IN-PLACE
- 14 REMOVE EXISTING JUNCTION STRUCTURE

**CONSTRUCTION NOTES**

- 1 CONSTRUCT TYPE "CM" DROP INLET (SEE DETAIL RSD57)
- 2 CONSTRUCT POST AND CABLE RAILING (SEE DETAIL RSD55)
- 3 CONSTRUCT 6' CHAIN-LINK FENCE PER (SEE DETAIL RSD55)
- 4 CONSTRUCT METAL PICKET FENCE (SEE DETAIL RSD55)
- 5 CONSTRUCT BLOCK AND CHAIN FENCE (SEE DETAIL RSD55)
- 6 CONSTRUCT BLOCK AND CHAIN FENCE W/ GATE (SEE DETAIL RSD55)
- 7 CONSTRUCT CHAIN-LINK FENCE POST, CABLE RAILING AND POLE MOUNT (SEE DETAIL RS32)
- 8 CONSTRUCT REMOVABLE METAL BOLLARD (SEE DETAIL RSD55)
- 9 CONSTRUCT 16' WIDE DRIVEWAY PER STANDARD DWG NO. 224
- 10 CONSTRUCT FIXED METAL BOLLARD (SEE DETAIL RSD55)
- 11 INSTALL REINFORCED PRECAST CONCRETE PLUG TO FIT PIPE PER RCP MANUFACTURER SPECIFICATIONS
- 12 CONSTRUCT CHAIN-LINK GATE (SEE DETAIL RSD54)
- 13 CONSTRUCT CMU BLOCK WALL (SEE DETAIL R58)
- 14 CONSTRUCT PERMANENT ASPHALT PATCH, MATCH EXISTING
- 15 CONSTRUCT CURB AND GUTTER PER NDOT STANDARD PLANS R-5.1.1
- 16 CONSTRUCT SIDEWALK PER NDOT STANDARD PLANS R-5.2.1
- 17 INSTALL RCB/RCA PLUG (SEE DETAIL RSD57)
- 18 CONTRACTOR TO PROVIDE CONNECTION DETAIL INTO PRECAST STRUCTURES.
- 19 ADJUST WATER VALVE, ANODE PROTECTION BOX, AIR RELIEF VALVE, AND OTHER WATER APPURTENANCES TO GRADE.
- 20 INSTALL WARNING SIGN DETENTION BASIN (SEE DETAIL RSD56/RS55)
- 21 INSTALL WARNING SIGN FLOOD CONTROL CHANNEL (SEE DETAIL RSD59/RS55)
- 22 UNDERGROUND CATV CONDUIT TO BE INSTALLED BY COX COMMUNICATIONS. SEE U SHEETS.
- 23 UNDERGROUND ELECTRICAL CONDUIT TO BE INSTALLED BY NV ENERGY. SEE U SHEETS.
- 24 UNDERGROUND TELEPHONE CONDUIT TO BE INSTALLED BY CENTURY LINK. SEE U SHEETS.
- 25 INSTALL 12' WIDE DOUBLE SWING GATE (SEE DETAIL RSD55)

**GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY HORIZONTAL AND VERTICAL TRANSITION BETWEEN NEW CONSTRUCTION AND EXISTING SURFACES TO PROVIDE FOR PROPER DRAINAGE AND OF INGRESS AND EGRESS TO SAID CONSTRUCTION. EXTENT OF TRANSITIONS TO BE DETERMINED BY THE COUNTY ENGINEER.
2. EXISTING UTILITIES ARE LOCATED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF UTILITIES AND THE ENGINEER BEARS NO RESPONSIBILITY FOR UTILITIES NOT SHOWN ON PLANS OR NOT IN THE LOCATION SHOWN ON THE PLANS. (CALL BEFORE YOU DIG 800-227-2600).
3. CONSTRUCTION SURVEY: GRADES ARE GIVEN FROM TOP OF STAKES OR NAILS. THE CONTRACTORS ARE CAUTIONED TO OBSERVE THE FOLLOWING RULE IN USING THE GRADE STAKES GIVEN BY THIS OFFICE. THREE CONSECUTIVE POINTS THAT ARE SHOWN TO BE ON THE SAME RATE OF SLOPE MUST BE USED IN COMMON IN ORDER THAT ANY VARIATION OUT OF A PERFECT STRAIGHT GRADE MAY BE DETECTED. IN CASE ANY SUCH DISCREPANCY IS FOUND, THE SAME MUST BE REPORTED OTHERWISE THIS OFFICE WILL NOT BE RESPONSIBLE FOR ANY ERROR IN THE GRADE OF THE FINISH WORK.
4. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL STREET INTERSECTIONS PER CLARK COUNTY STANDARD DRAWING 235 EXACT LOCATION OF RAMP TO BE DETERMINED IN FIELD BY A CLARK COUNTY INSPECTOR.
5. STANDARD STREET SECTIONS PER CLARK COUNTY STANDARD DRAWINGS UNLESS OTHERWISE NOTED.
6. CURB AND GUTTER WITH A GRADE OF LESS THAN FOUR TENTHS OF ONE PERCENT SHALL BE CONSTRUCTED BY FORMING. EACH JOINT SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION.
7. FINAL ASPHALTIC CONCRETE (AC) PAVEMENT SURFACES SHALL BE ONE-HALF INCH ABOVE LIP OF THE GUTTER (INCLUDING OPEN GRADE).
8. EXACT LOCATION OF ALL SAWCUTS TO BE DETERMINED IN THE FIELD BY A CLARK COUNTY INSPECTOR.
9. VALLEY GUTTER WITH A GRADE OF FOUR TENTHS OF ONE PERCENT OR LESS SHALL BE CHECKED FOR GRADE PRIOR TO CONSTRUCTION AND WATER TESTED AS SOON AS POSSIBLE AFTER CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE PROPER DRAINAGE ACROSS ALL VALLEY GUTTERS.
10. ALL OFF-SITE IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS AND STANDARD DRAWINGS CLARK COUNTY AREA NEVADA" AND "CLARK COUNTY SUPPLEMENT TO UNIFORM STANDARD DRAWINGS AND SPECIFICATIONS", LATEST REVISION.
11. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR UTILITIES OR STRUCTURES NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO VERIFY THE EXACT LOCATION OF UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR'S RESPONSIBILITIES REGARDING UTILITIES SHALL BE AS REQUIRED UNDER SECTION 107.17 OF THE UNIFORM STANDARD SPECIFICATIONS FOR CLARK COUNTY AREA, NEVADA AND AS PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL USE EXTREME CARE WORKING OVER OR NEAR ANY EXISTING GAS MAINS.
12. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT EXISTING IMPROVEMENTS, WHICH ARE TO REMAIN IN PLACE FROM DAMAGE. ALL SUCH IMPROVEMENTS OR STRUCTURES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR RECONSTRUCTED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
13. FENCES, SIGNS, STRUCTURES, LIGHTS AND OTHER EXISTING IMPROVEMENTS WITHIN STREET R/W SHALL BE REMOVED WHERE SHOWN ON THE CONTRACT DRAWINGS, AND AS REQUIRED BY THE ENGINEER.
14. REPLACEMENT, RELOCATION OR RECONSTRUCTION OF ALL EXISTING IMPROVEMENTS INCLUDING FENCES, WALL SIGNS, AND ALL OTHER ITEMS APPLICABLE TO THIS CONTRACT SHALL BE AS REQUIRED BY THE ENGINEER.
15. ALL BARRICADING AND TEMPORARY TRAFFIC CONTROL DEVICES OR METHODS USED DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "NEVADA TRAFFIC CONTROL MANUAL, 1986 PUBLISHED BY THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, EXCEPT AS OTHERWISE PROVIDED IN THE CONTRACT DRAWINGS.
16. THE CONTRACTOR SHALL BACKFILL AND FINAL GRADE ALL CUT OR FILL SLOPES TO MATCH EXISTING CONDITIONS TO THE SATISFACTION OF THE ENGINEER.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERTICAL ADJUSTMENT OF ALL EXISTING SANITARY, WATER AND STORM SEWER MANHOLES TO THE FINAL FINISH GRADES IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONTRACT DRAWINGS AND IN ACCORDANCE WITH SECTION 609 OF THE "STANDARD SPECIFICATIONS".
18. ALL GRADING SHALL BE IN ACCORDANCE WITH THE SPECIFICATION MANUAL AND THE SOILS REPORT AS PREPARED BY ANGLE ENGINEERING, PROJECT NUMBER 1205, DATED AUGUST 6, 2012. WHERE CONFLICTS OCCUR THE MOST RESTRICTIVE SHALL GOVERN.
19. 48 HOURS PRIOR TO START OF CONSTRUCTION THE CONTRACTOR SHALL CONTACT:  
 NV ENERGY PHONE - 1-800-227-2600  
 CENTRAL TELEPHONE COMPANY d/b/a CENTURYLINK PHONE - 1-800-227-2600  
 SOUTHWEST GAS CORPORATION PHONE - (702) 651-2111  
 LAS VEGAS VALLEY WATER DISTRICT PHONE - (702) 870-2011
20. PRIVATE STREETS, CURB & GUTTER AND VALLEY GUTTERS REFLECTED ON THESE PLANS ARE TO BE INSPECTED BY A CLARK COUNTY INSPECTOR.

**LEGEND AND ABBREVIATIONS**

<p><b>LEGEND</b></p> <p>(00.0) INV              00.0 INV</p> <p>EXIST. ELEVATION              PROPOSED ELEVATION              PROPERTY OR RIGHT-OF-WAY LINE              CENTERLINE              HYDRAULIC GRADE LINE (HGL)              EASEMENT              FLOW LINE              CONSTRUCTION LIMITS              EXISTING TELEPHONE CABLE              EXISTING SANITARY SEWER LINE              EXISTING WATER LINE              EXISTING GAS LINE              EXISTING UNDERGROUND POWER              EXISTING OVERHEAD POWER              EXISTING STORM DRAIN              PROPOSED STORM DRAIN              EXISTING CABLE TELEVISION              EXISTING CONTOUR              PROPOSED CONTOUR</p> <p>EXISTING GUY WIRE              EXISTING MANHOLE              EXISTING POWER POLE              EXISTING POWER POLE AND GUY WIRE              EXISTING POWER POLE              PROPOSED MANHOLE              EXISTING FIRE HYDRANT              EXISTING VALVE</p> <p>EXISTING BLOCK WALL              PROPOSED BLOCK WALL              EXISTING CHAIN-LINK FENCE              PROPOSED CHAIN-LINK FENCE              PROPOSED POST &amp; CABLE FENCE              PROPOSED BLOCK &amp; CHAIN FENCE              PROPOSED METAL PICKET FENCE</p> <p>RIPRAP              GROUDED RIPRAP</p> <p>TYPE II              ROLLER COMPACTED CONCRETE (RCC)</p> <p>HORIZONTAL CONTROL POINT</p> <p>AC PAVEMENT (TRAIL)</p>	<p><b>ABBREVIATIONS</b></p> <p>AC = ASPHALTIC CONCRETE              APN = ASSESSORS PARCEL NUMBER              AR = ACCESS ROAD              BCR = BEGIN CURB RETURN              BVC = BEGIN VERTICAL CURVE              BW = BACK OF WALK              CC = CLARK COUNTY              CCRWD = CLARK COUNTY WATER RECLAMATION DISTRICT              CF = CURB FACE              CL/Q = CENTERLINE              CLSM = CONTROLLED LOW STRENGTH MATERIAL              DCSWCS = DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS              DS = DOWN SPOUT              EG = EXISTING GROUND              ELEV./ EL = ELEVATION              EP = EDGE OF PAVEMENT              EVC = END VERTICAL CURVE              EXIST./ EX = EXISTING              FF = FINISH FLOOR              FG = FINISHED GRADE              FH = FINISH GRADE              FH = FIRE HYDRANT              FL = FLOW LINE              FNC = FENCE              FUT = FUTURE              G = GAS              GB = GRADE BREAK              GR = GRATE ELEVATION              GV = GATE VALVE              HERCP = HORIZONTAL ELLIPTICAL RCP              HDPE = HIGH DENSITY POLYETHYLENE              HP = HIGH POINT              INV = INVERT              LF = LINEAR FEET              LVVWD = LAS VEGAS VALLEY WATER DISTRICT              NO = NATURAL GRADE              NP = NEVADA POWER              OCS = ORIGIN OF CONICAL SURFACE              PC = POINT OF CURVE              PCC = POINT OF COMPOUND CURVE              PRC = POINT REVERSE CURVE              PT = POINT OF TANGENT              PVC = POLYVINYL CHLORIDE PIPE              R/W = RIGHT-OF-WAY              RCA = REINFORCED CONCRETE ARCH              RCB = ROLLER COMPACTED CONCRETE BOX              RCC = ROLLER COMPACTED CONCRETE              RCP = REINFORCED CONCRETE PIPE              RP = RADIAL POINT              RR = RAILROAD              SD = STORM DRAIN              SDDI = STORM DRAIN DROP INLET              SDMH = STORM DRAIN MANHOLE              SSMH = SANITARY SEWER MANHOLE              SS = SANITARY SEWER              STA = STATION              STL = STREET LIGHT              THK = THICKNESS              TO = TOP BACK OF CURB              TOE = TOE OF CHANNEL              TOP = TOP OF CHANNEL              TRANS = TRANSITION              TRW = TOP OF RETAINING              TW = TOP OF WALL              UDACS = UNIFORM DESIGN AND CONSTRUCTION STANDARDS              USDOCA = UNIFORM STANDARD DRAWING CLARK COUNTY AREA              VAR. = VARIES              W = WITH              WSE = WATER SURFACE ELEVATION</p>
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**BENCHMARK**

CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992, BENCHMARK IC99-255SW6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-8) AT THE WEST END OF ANN ROAD.

**BASIS OF BEARING**

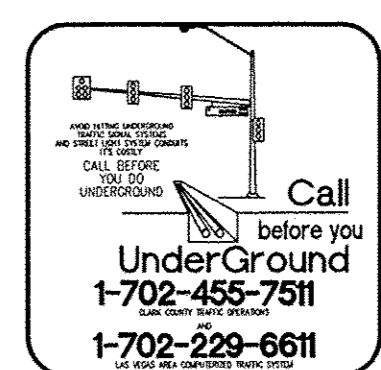
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CCGS 807, ONLY HARN 756 AND ONLY HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.

**APPROVED FOR CONSTRUCTION**

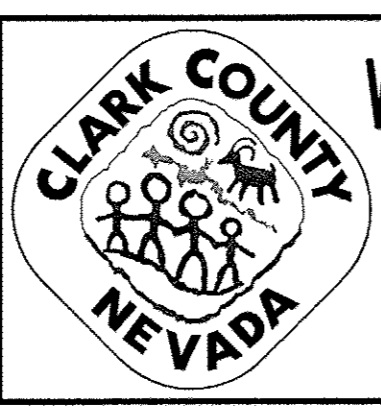
LAS VEGAS VALLEY WATER DISTRICT LVVWD PROJECT #107164 DATE \_\_\_\_\_

**DISCLAIMER NOTE**

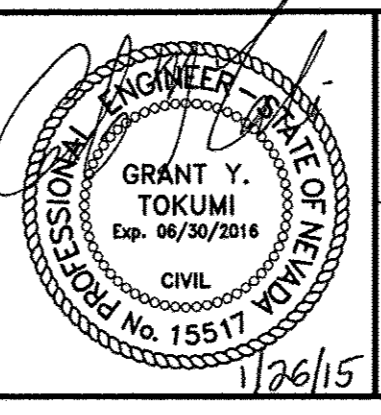
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 GENERAL NOTES, LEGEND, ABBREVIATIONS, BENCHMARK AND BASIS OF BEARING  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

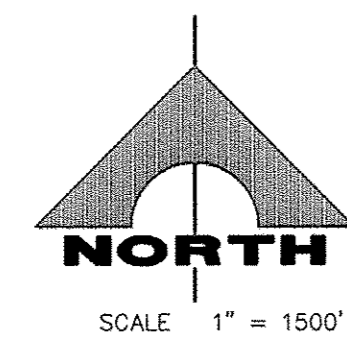


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	RG2
FIELD BOOK		
CCPW PROJECT #		SHT. 492 OF 600
W.O. #:	2008-62	

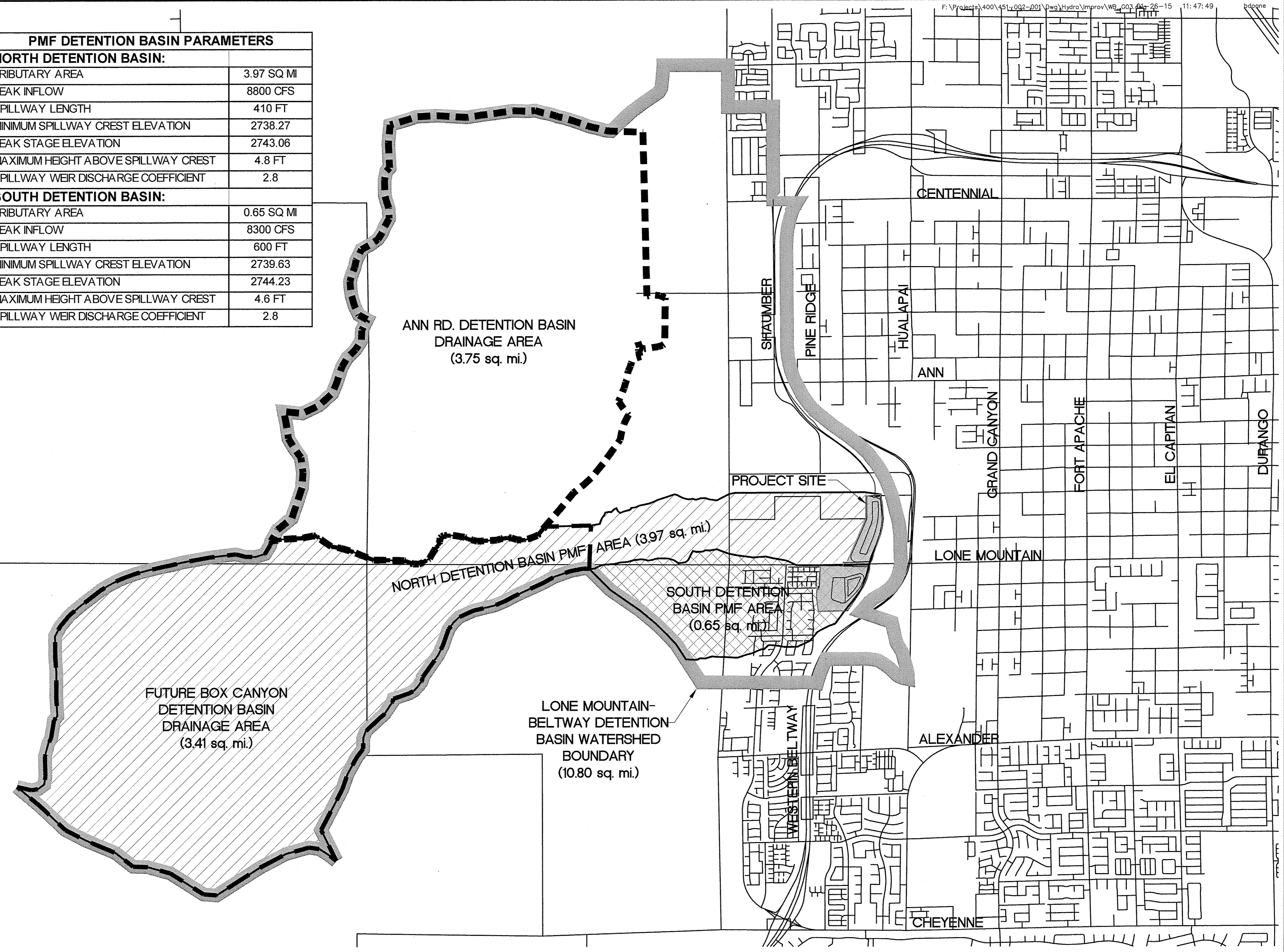
100-YEAR DETENTION BASIN PARAMETERS	
<b>NORTH DETENTION BASIN:</b>	
PEAK INFLOW	3703 CFS
BALANCING CONDUIT	8'x 8' RCB
INVERT ELEVATION AT BALANCING CONDUIT	2701.11
PEAK STAGE ELEVATION	2736.08
MAXIMUM WATER DEPTH AT PEAK STAGE	34.97 FT
SEDIMENT STORAGE	7.4 AC-FT
<b>SOUTH DETENTION BASIN:</b>	
PEAK INFLOW	1896 CFS
ORIFICE DIMENSION	23" and 26"
OUTFALL CONDUIT	72" RCP
INVERT ELEVATION AT OUTLET	2699.04
PEAK STAGE ELEVATION	2736.08
MAXIMUM WATER DEPTH AT PEAK STAGE	37.04 FT
SEDIMENT STORAGE	4.4 AC-FT
<b>COMBINED:</b>	
TRIBUTARY AREA	10.80 SQ MI
PEAK INFLOW	4302 CFS
PEAK OUTFLOW	116 CFS
PEAK STORAGE (CLEAR WATER)	527 AC-FT
DRAIN TIME	173.8 HRS

PMF DETENTION BASIN PARAMETERS	
<b>NORTH DETENTION BASIN:</b>	
TRIBUTARY AREA	3.97 SQ MI
PEAK INFLOW	8800 CFS
SPILLWAY LENGTH	410 FT
MINIMUM SPILLWAY CREST ELEVATION	2738.27
PEAK STAGE ELEVATION	2743.06
MAXIMUM HEIGHT ABOVE SPILLWAY CREST	4.8 FT
SPILLWAY WEIR DISCHARGE COEFFICIENT	2.8
<b>SOUTH DETENTION BASIN:</b>	
TRIBUTARY AREA	0.65 SQ MI
PEAK INFLOW	8300 CFS
SPILLWAY LENGTH	600 FT
MINIMUM SPILLWAY CREST ELEVATION	2739.63
PEAK STAGE ELEVATION	2744.23
MAXIMUM HEIGHT ABOVE SPILLWAY CREST	4.6 FT
SPILLWAY WEIR DISCHARGE COEFFICIENT	2.8



### LEGEND

- NORTH DETENTION BASIN PMF AREA
- SOUTH DETENTION BASIN PMF AREA
- FUTURE BOX CANYON DETENTION BASIN DRAINAGE AREA
- ANN ROAD DETENTION BASIN DRAINAGE AREA
- LONE MOUNTAIN-BELTWAY DETENTION BASIN WATERSHED BOUNDARY

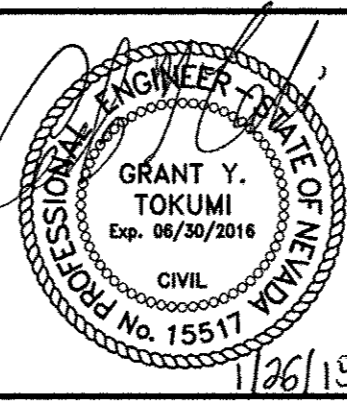


REV. NO.	DATE	DESCRIPTION	APPROVED



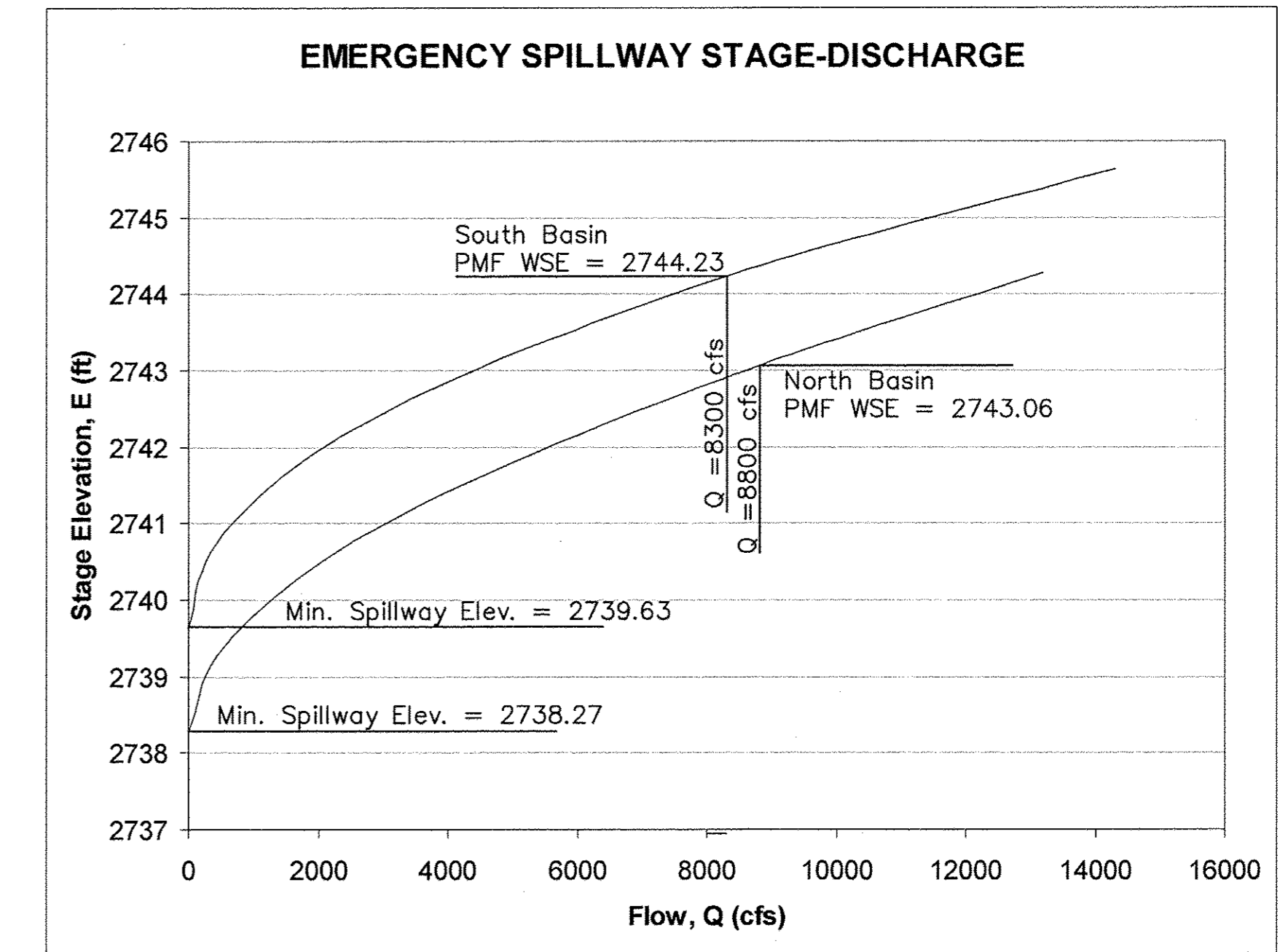
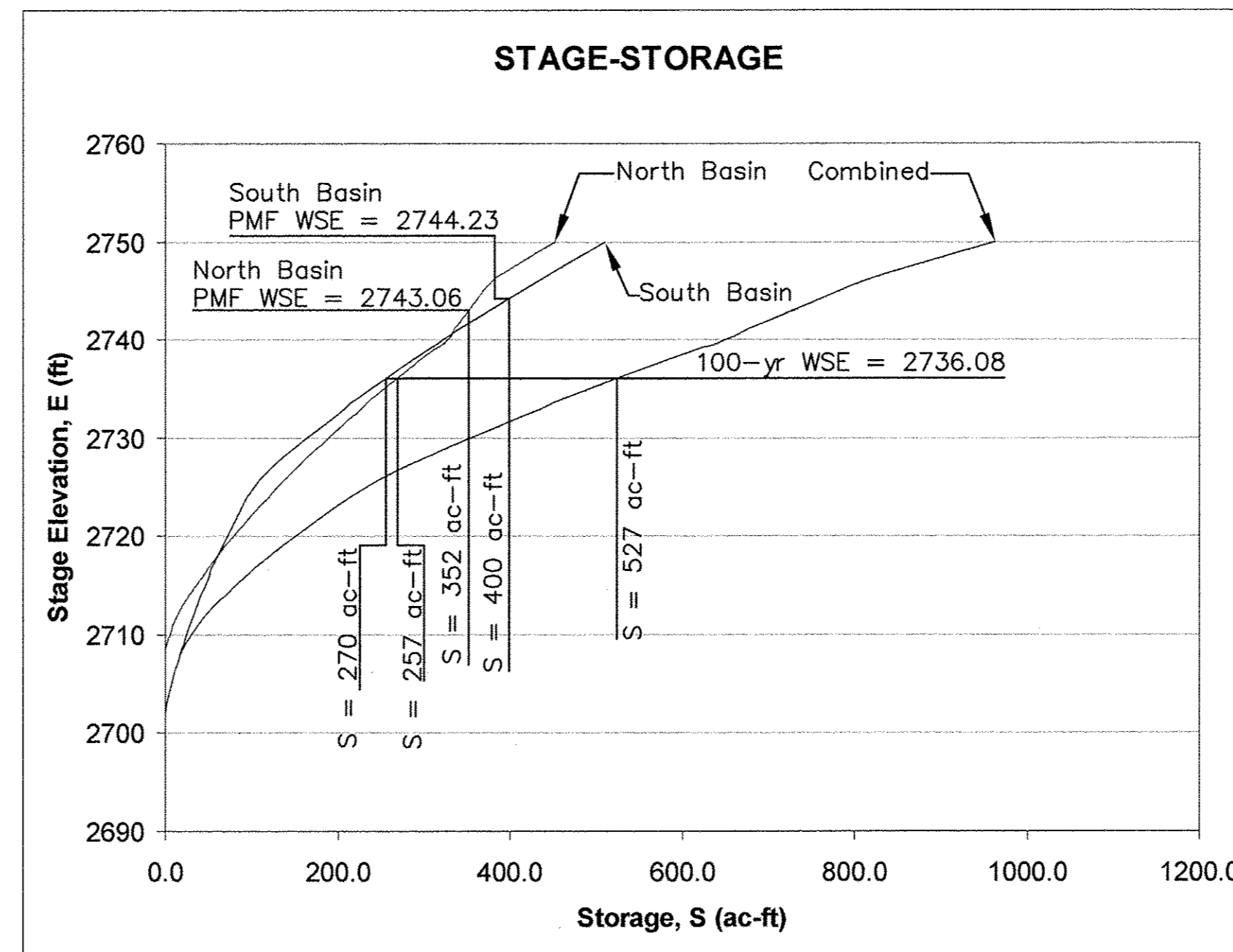
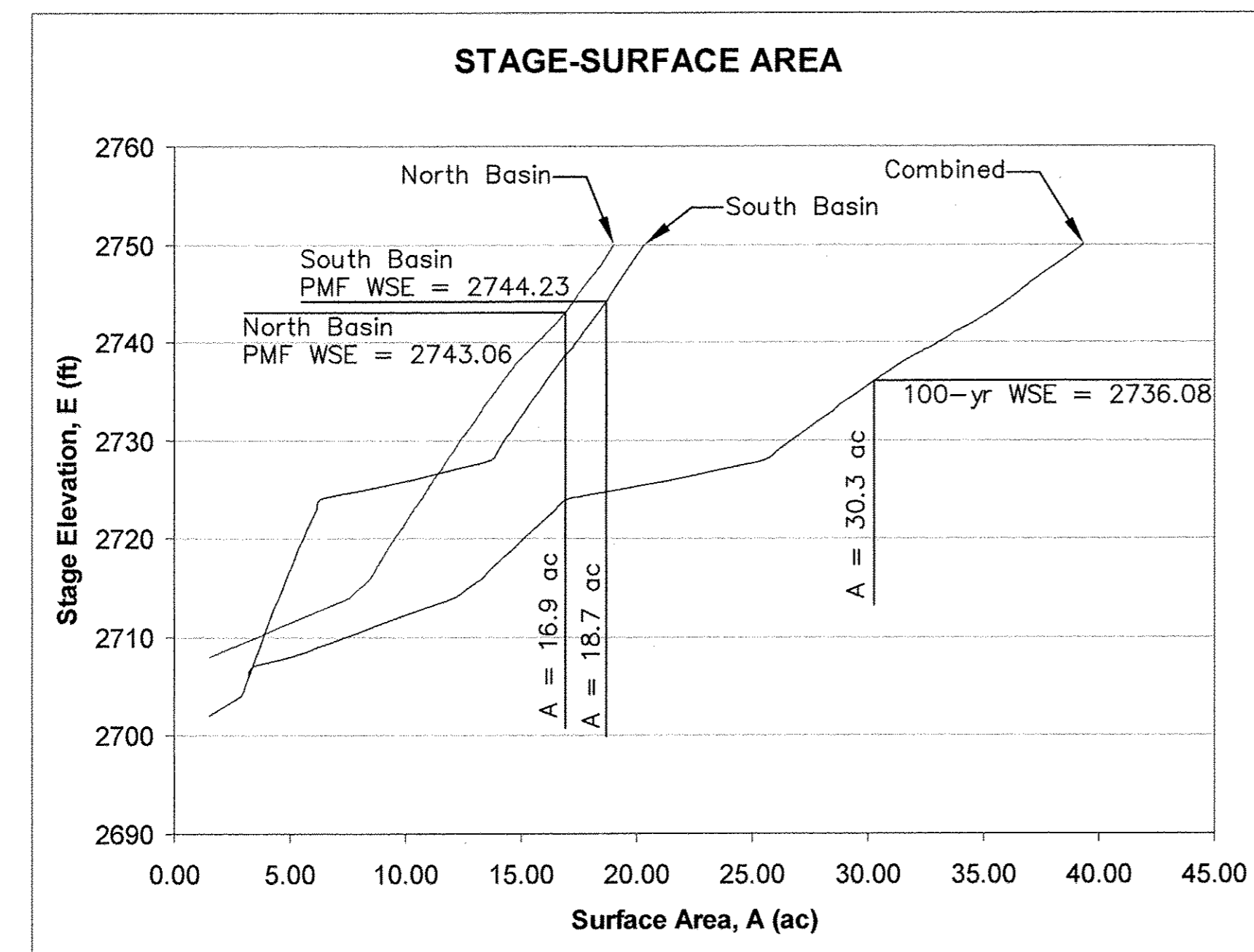
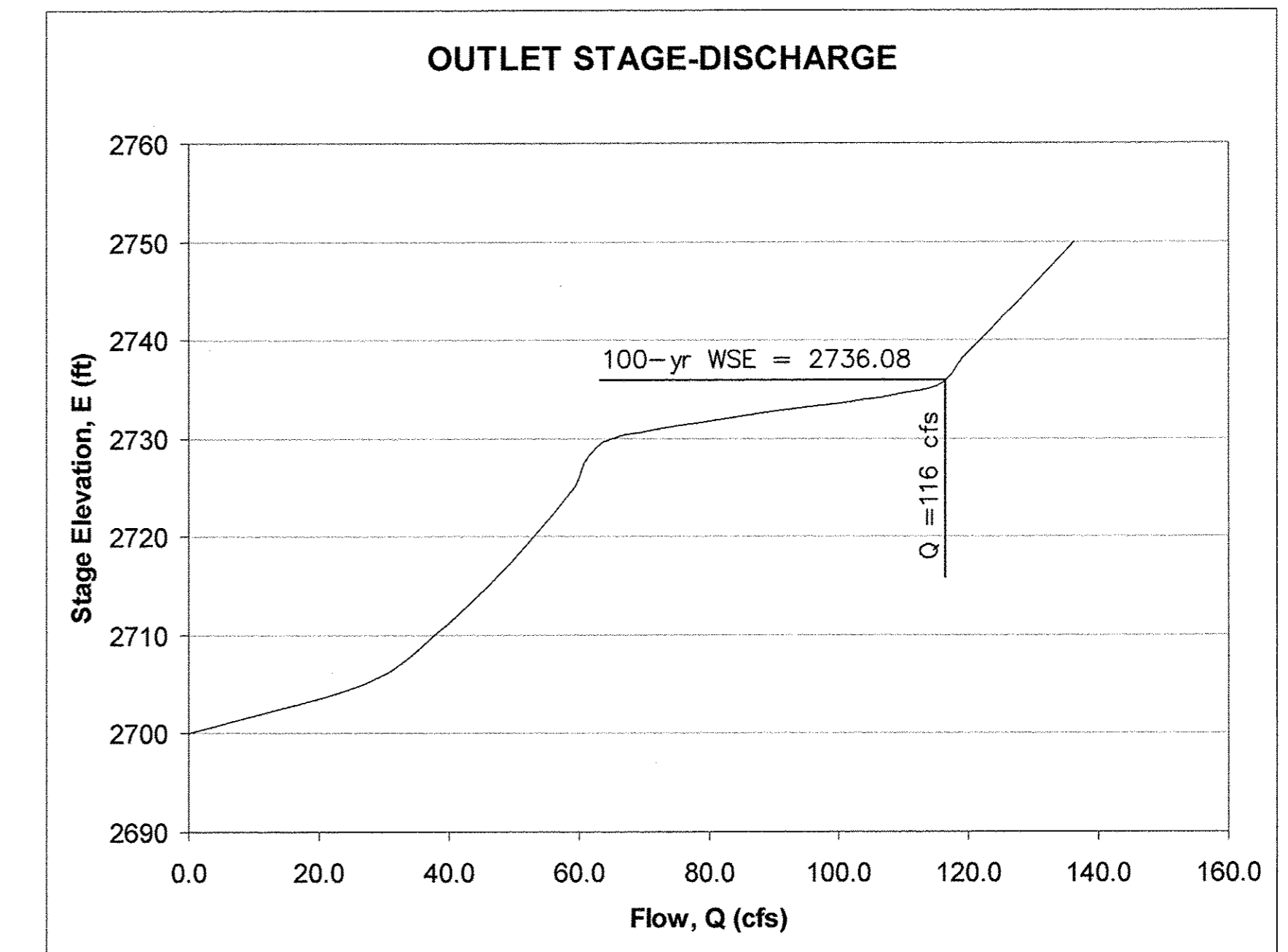
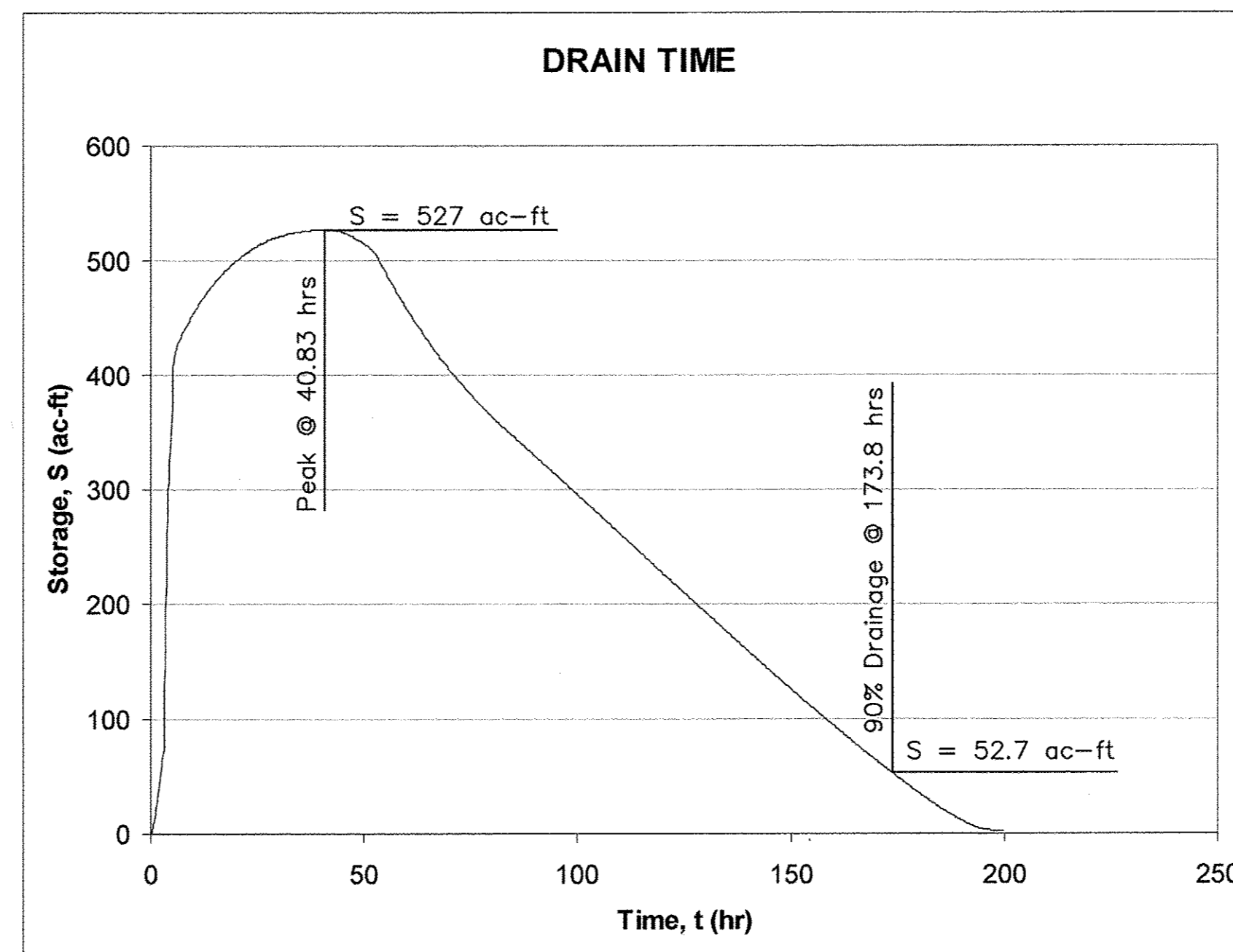
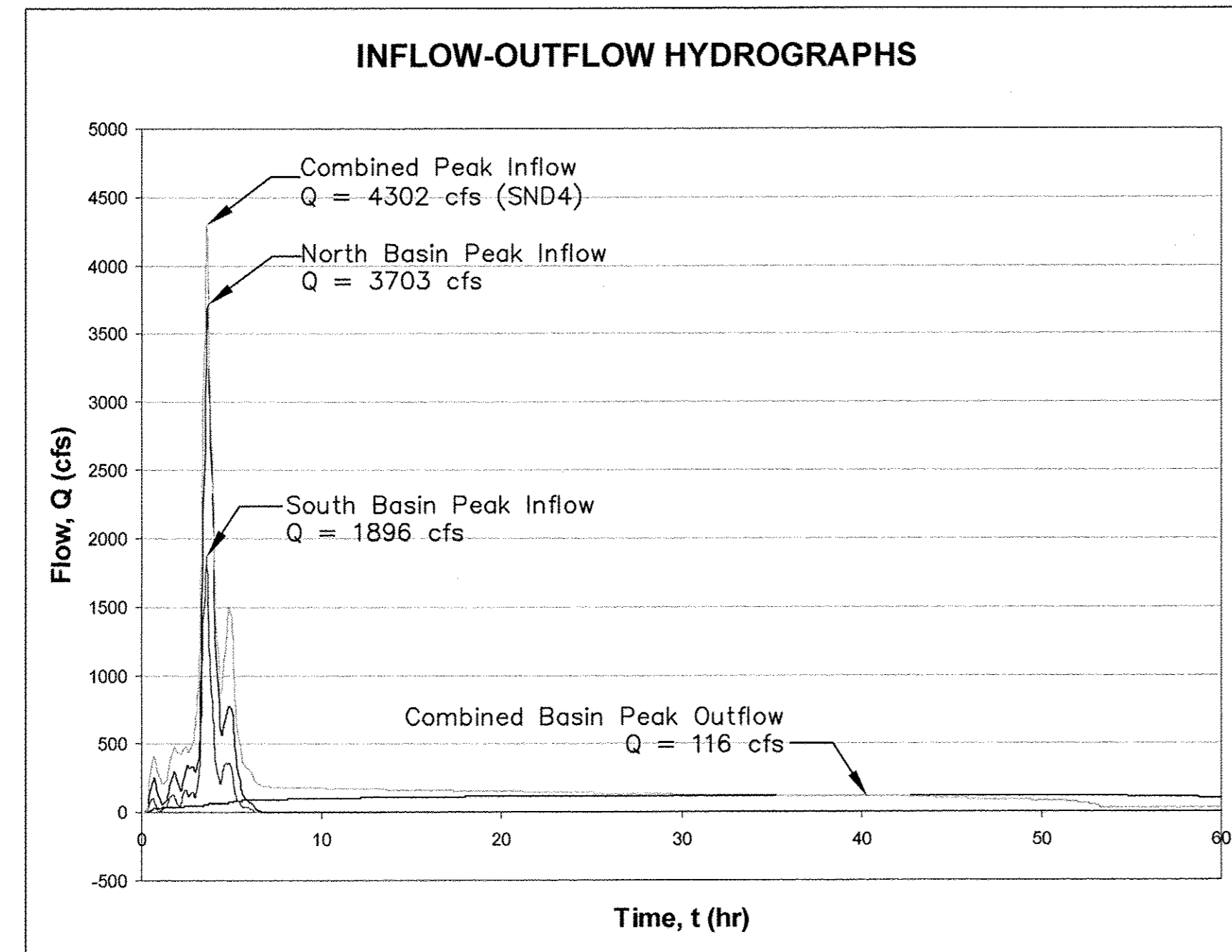
## WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY WATERSHED BOUNDARY MAP

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 • F: 702.804.2299 • GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RG3
VERT:	NONE	
FIELD BOOK		SHT. 493 OF 600
COPW PROJECT #		
W.O. #:	2008-62	

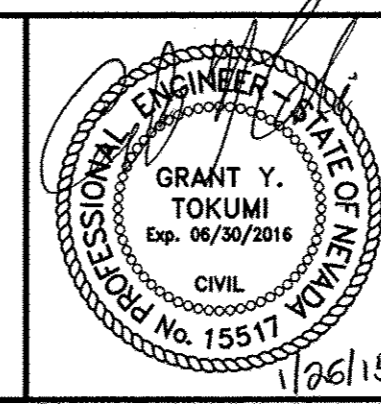


REV. NO.	DATE	DESCRIPTION	APPROVED



## WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY DETENTION BASIN STAGE RELATIONSHIPS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 COPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RG4**  
 SHT. 494 OF 600

LINE TABLE with columns: LINE, LENGTH, BEARING. Contains 171 line segments.

LINE TABLE with columns: LINE, LENGTH, BEARING. Contains 171 line segments.

CURVE TABLE with columns: CURVE, RADIUS, LENGTH, TANGENT, DELTA. Contains 36 curve data points.

HORIZONTAL DATUM with columns: POINT #, NORTHING, EASTING, STATION, PLAN SHEET, PROFILE SHEET. Contains 1062 points.

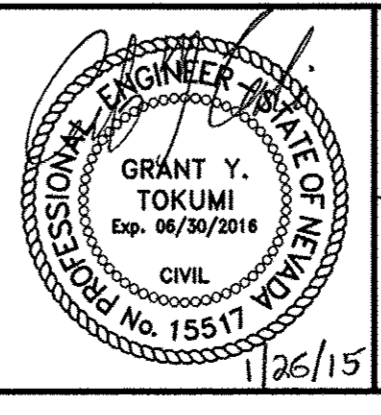
HORIZONTAL DATUM with columns: POINT #, NORTHING, EASTING, STATION, PLAN SHEET, PROFILE SHEET. Contains 1136 points.

Table with columns: REV. NO., DATE, DESCRIPTION, APPROVED.



WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY HORIZONTAL CONTROL DATA

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: G. C. WALLACE COMPANIES ENGINEERS | PLANNERS | SURVEYORS

SCALE: HORIZ: NONE VERT: NONE DRAWING NO. RG5 SHT. 495 OF 600

Multiple tables containing POINT TABLE, LINE TABLE, and CURVE TABLE data. Includes columns for POINT #, DESCRIPTION, NORTHING, EASTING, PLAN SHEET, LINE #, LENGTH, DIRECTION, CURVE #, LENGTH, RADIUS, DELTA.

Revision table with columns: REV. NO., DATE, DESCRIPTION, APPROVED.



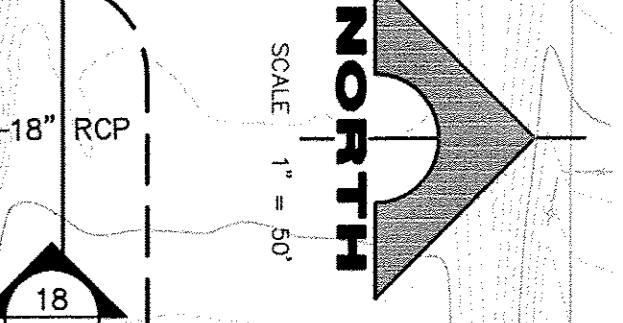
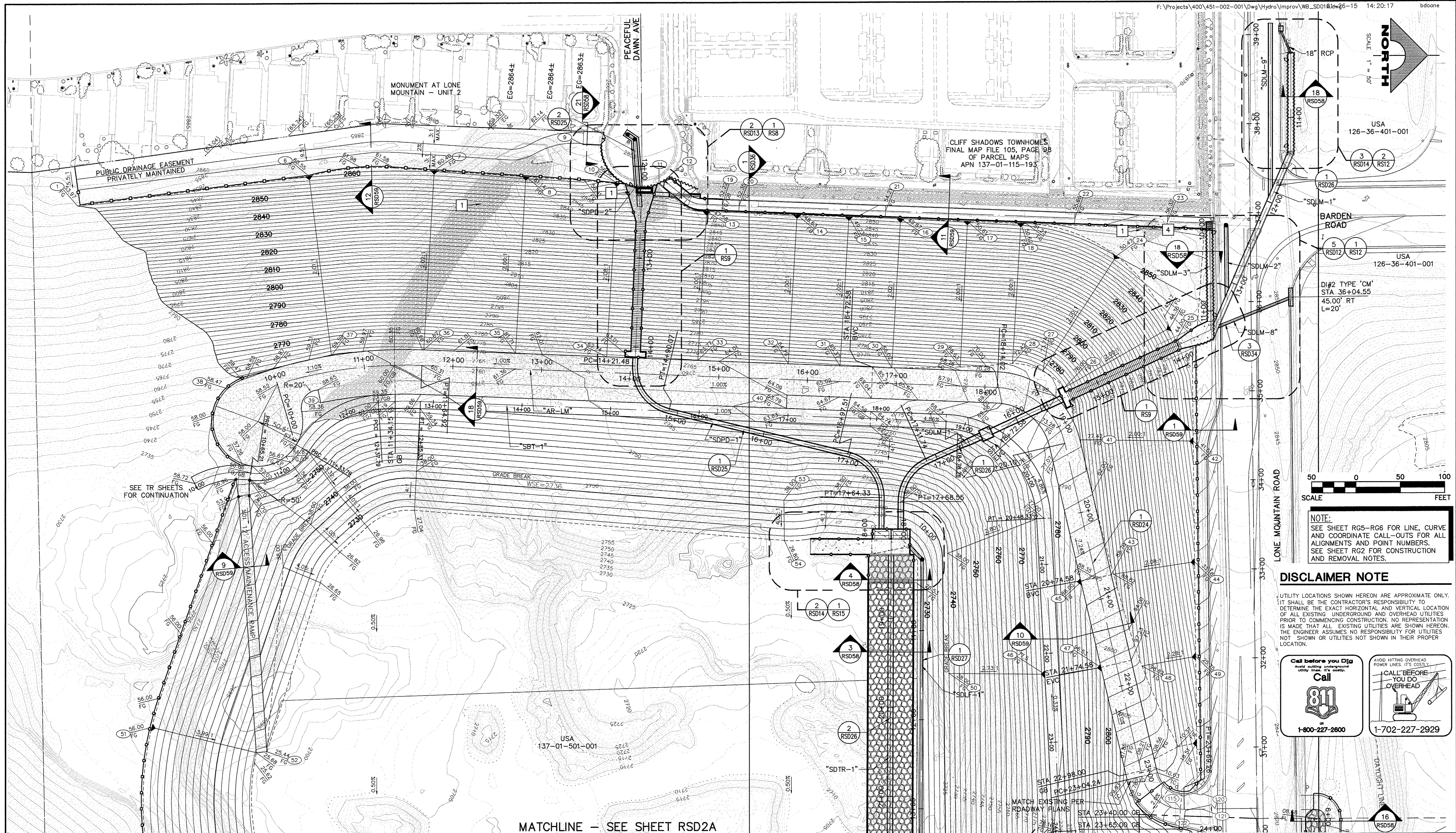
WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY GRADING COORDINATE DATA CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY: G.C. WALLACE COMPANIES ENGINEERS | PLANNERS | SURVEYORS

SCALE: HORIZ: NONE VERT: NONE FIELD BOOK: CPWP PROJECT # W.O. # SHT. 496 OF 600 DRAWING NO. RG6

REV. NO. 603576-15



USA  
126-36-401-001

BARDEN ROAD  
USA  
126-36-401-001

DI#2 TYPE 'CM'  
STA 36+04.55  
45.00' RT  
L=20'



**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE  
AND COORDINATE CALL-OUTS FOR ALL  
ALIGNMENTS AND POINT NUMBERS.  
SEE SHEET RG2 FOR CONSTRUCTION  
AND REMOVAL NOTES.

**DISCLAIMER NOTE**

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IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO  
DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION  
OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES  
PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION  
IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON.  
THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES  
NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER  
LOCATION.

**Call before you Dig**  
Avoid hitting underground  
utility lines. It's costly.

811

1-800-227-2600

**CALL BEFORE  
YOU DO  
OVERHEAD**

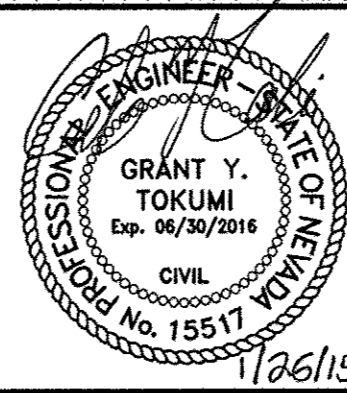
1-702-227-2929

MATCHLINE - SEE SHEET RSD2A

REV. NO.	DATE	DESCRIPTION	APPROVED

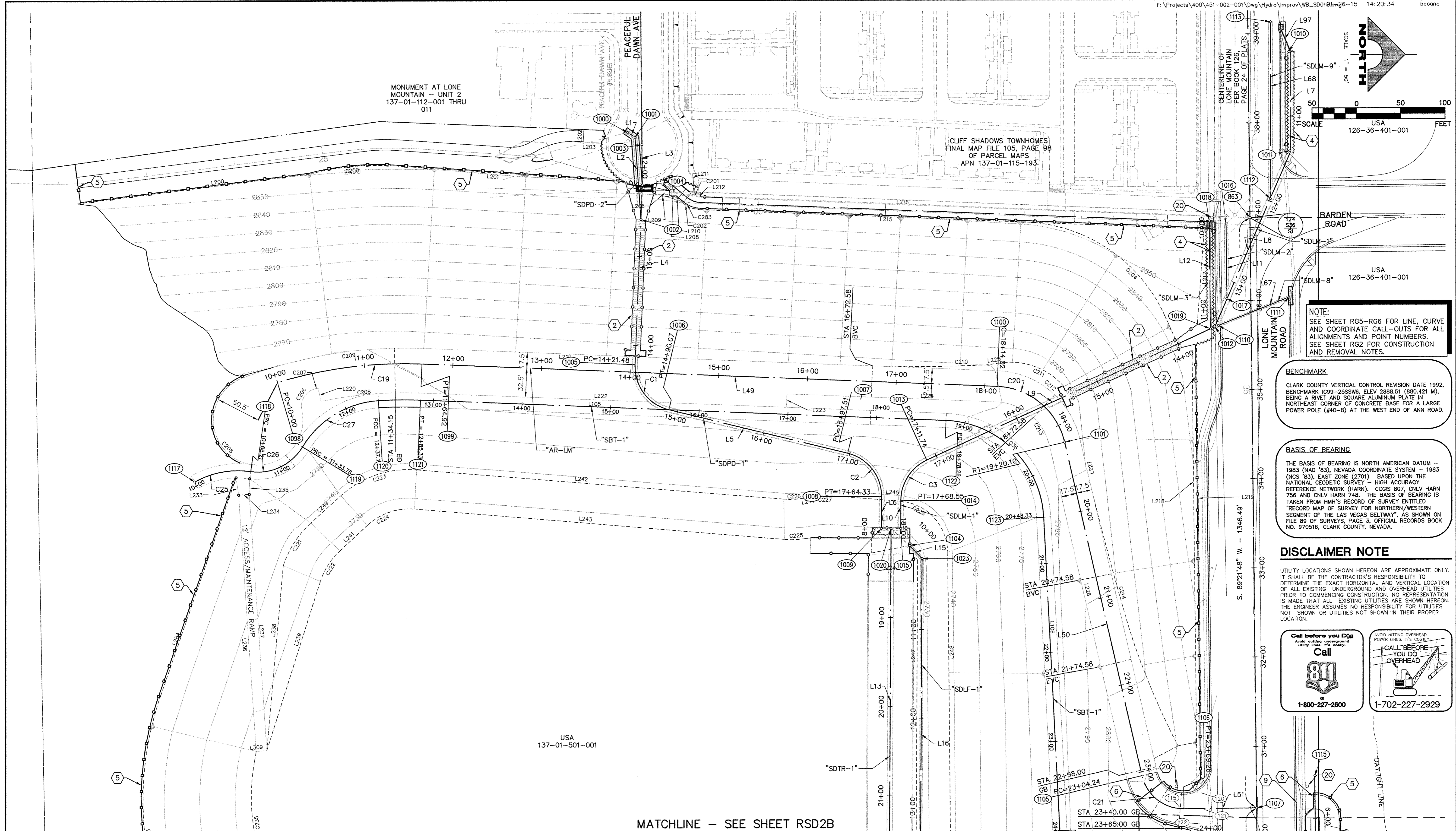


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
GRADING PLAN  
SOUTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 • F: 702.804.2299 • GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	RSD1A
FIELD BOOK	CCPW PROJECT #	SHT. 497 OF 600
W.O. #: 2008-62		



**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

**BENCHMARK**  
CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992. BENCHMARK (C99-25SSW6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-8) AT THE WEST END OF ANN ROAD.

**BASIS OF BEARING**  
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD 83), NEVADA COORDINATE SYSTEM - 1983 (NCS 83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN), CGCS 807. ONLY HARN 758 AND ONLY HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.

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**Call before you Dig**  
Avoid hitting underground utility lines. IT'S COSTLY.



1-800-227-2600


**CALL BEFORE YOU DO OVERHEAD**  
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.



1-702-227-2929

MATCHLINE - SEE SHEET RSD2B

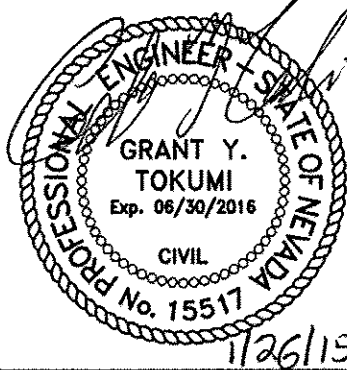
REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**

PROJECT CONTROL PLAN  
SOUTH DETENTION BASIN

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

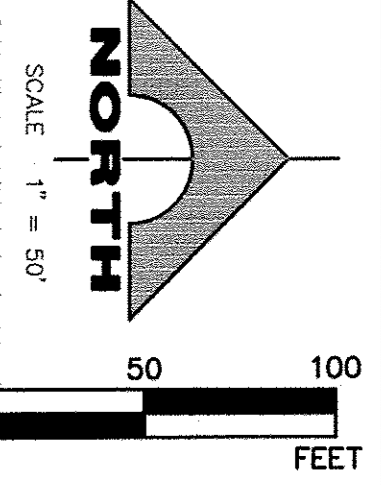
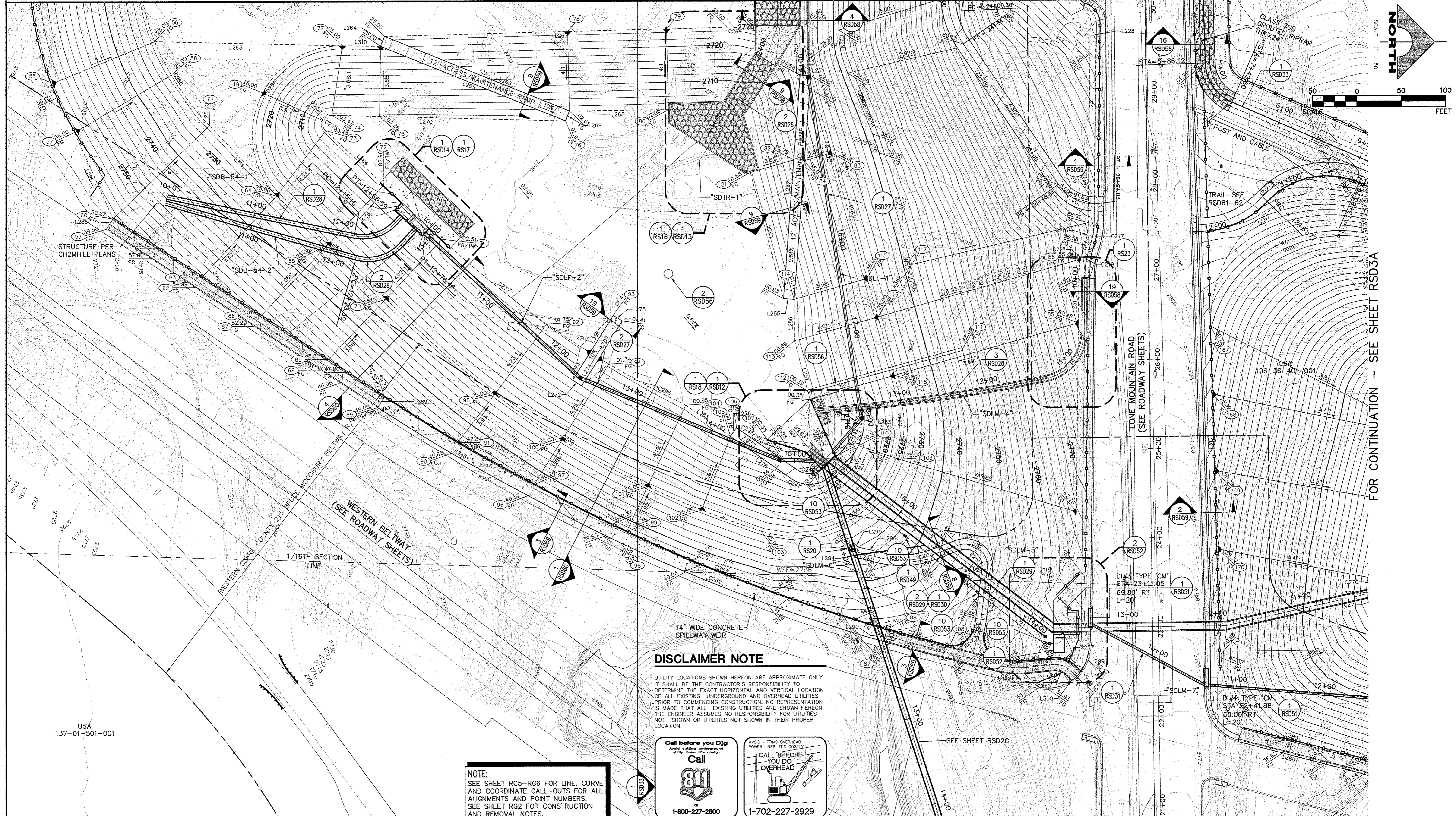
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	<b>RSD1B</b>
VERT:	NONE	
FIELD BOOK		
CPWP PROJECT #		SHT. 498 OF 600
W.O. #: 2008-62		



MATCHLINE - SEE SHEET RSD1A

F:\Projects\400\451-002-001\Draw\Hydro\Improv\WB\_S0221.mxd 14:20:55 bdoone



FOR CONTINUATION - SEE SHEET RSD3A

**DISCLAIMER NOTE**  
 UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

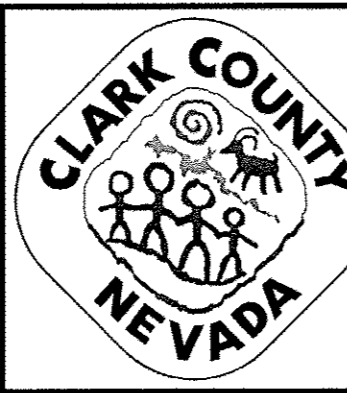
**Call before you Dig**  
 Avoid cutting underground utility lines. It's costly.  
**Call**  
 811  
 1-800-227-2600

**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**  
**CALL BEFORE YOU DO OVERHEAD**  
 1-702-227-2929

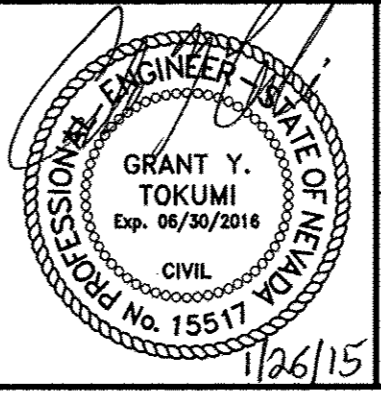
**NOTE:**  
 SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

USA 137-01-501-001

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 GRADING PLAN  
 SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

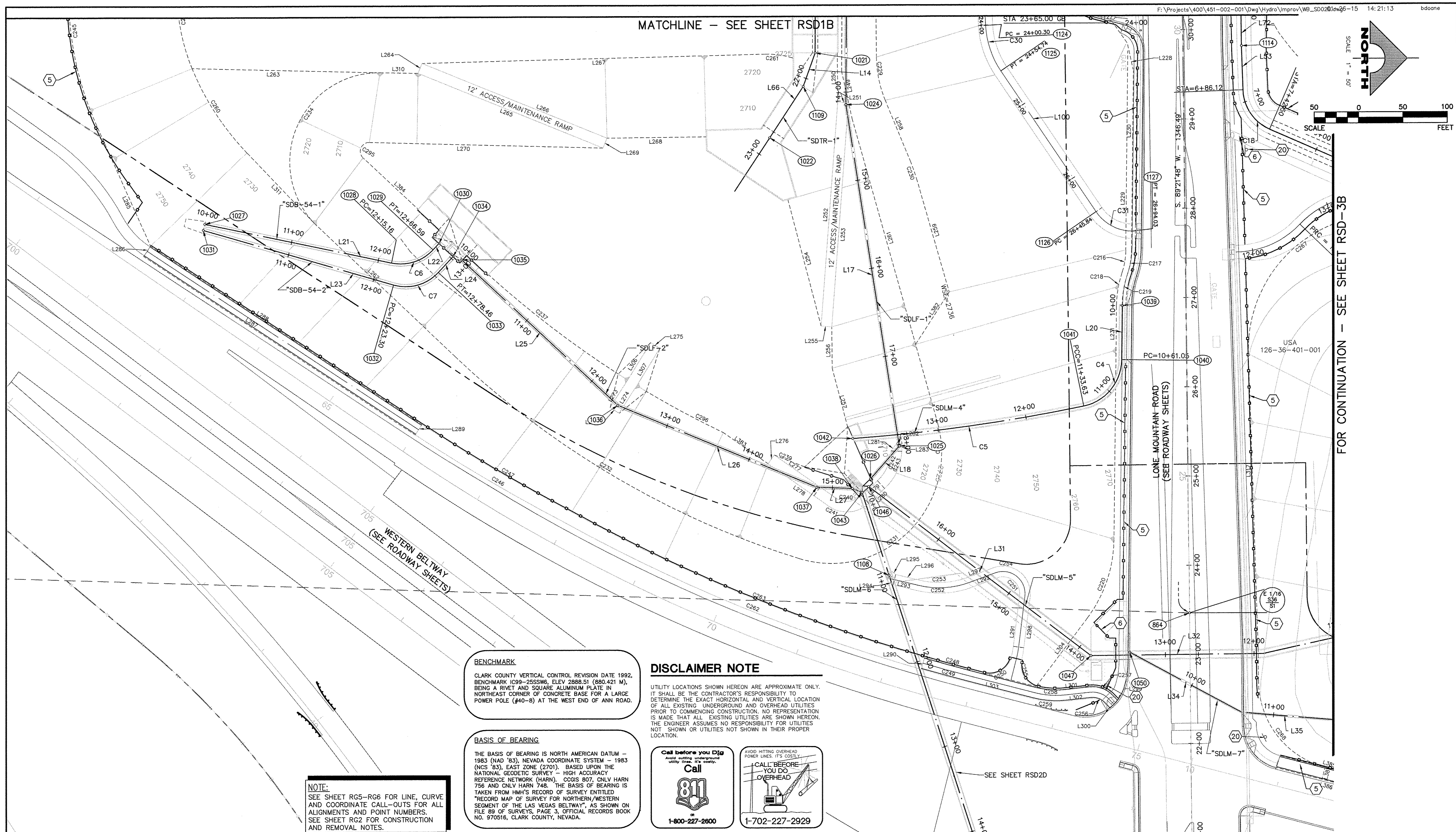


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

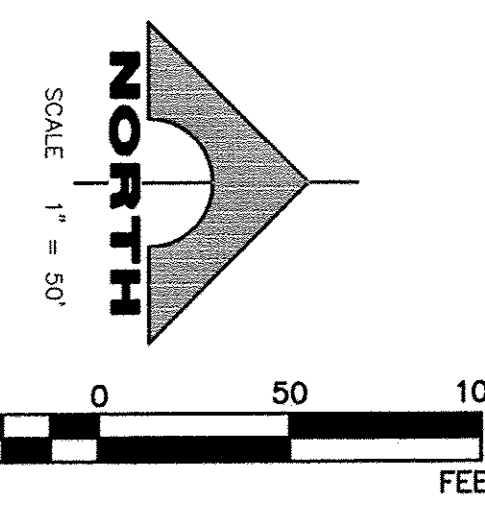
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
VERT: NONE		<b>RSD2A</b>
FIELD BOOK		SHT. 499 OF 600
CCPW PROJECT #	W.O. #: 2008-62	

BID NO. 603576-15



MATCHLINE - SEE SHEET RSD1B



FOR CONTINUATION - SEE SHEET RSD-3B

**BENCHMARK**  
CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992, BENCHMARK (C99-255W6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-D) AT THE WEST END OF ANN ROAD.

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**BASIS OF BEARING**  
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN). CGIS 807, ONLY HARN 756 AND ONLY HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970518, CLARK COUNTY, NEVADA.

**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

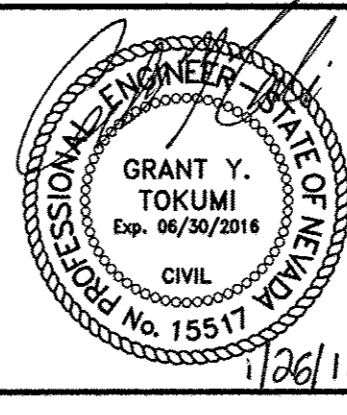
**Call before you Dig**  
Avoid hitting underground utility lines. It's costly.  
**Call**  
811  
1-800-227-2800

**CALL BEFORE YOU DO OVERHEAD**  
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**Call**  
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED

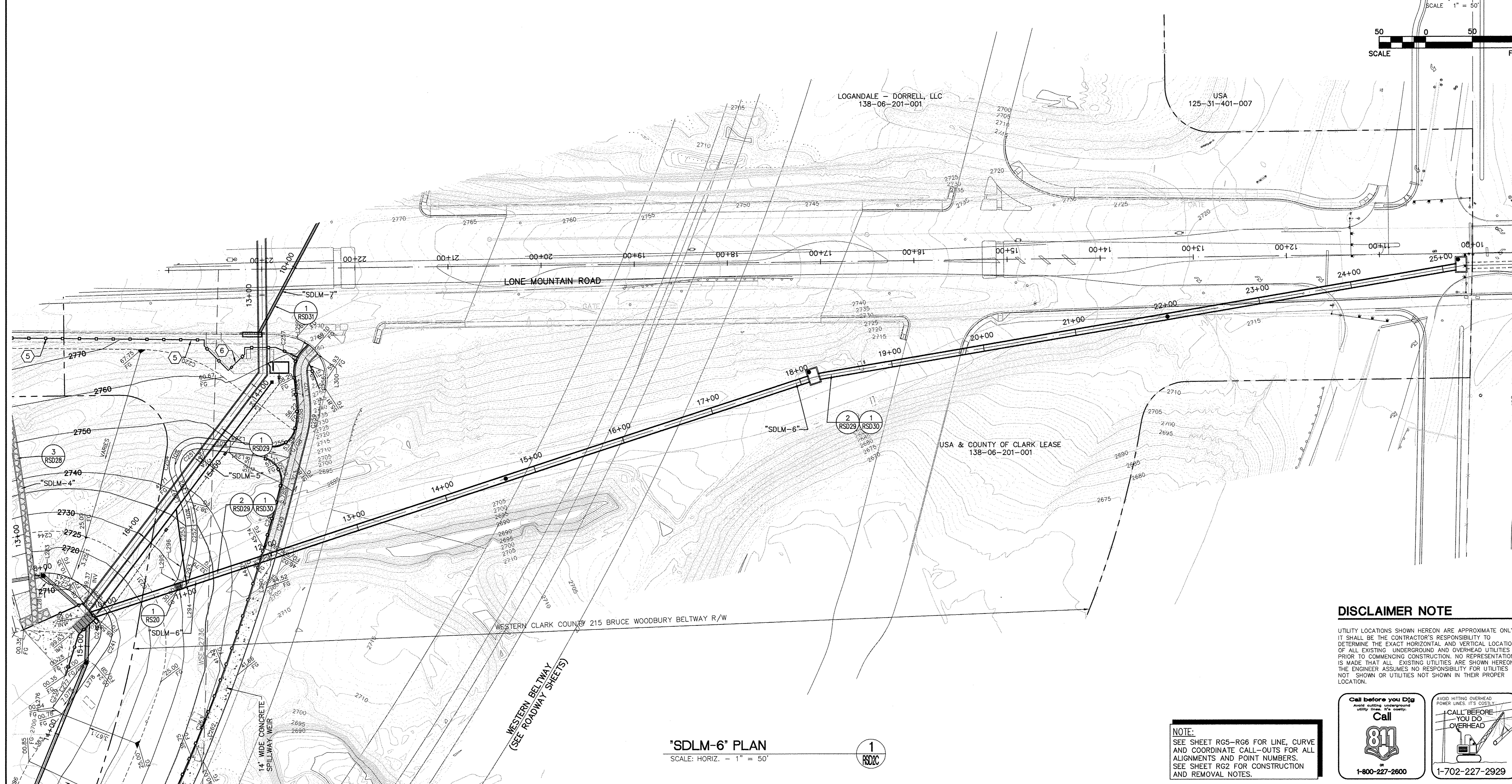
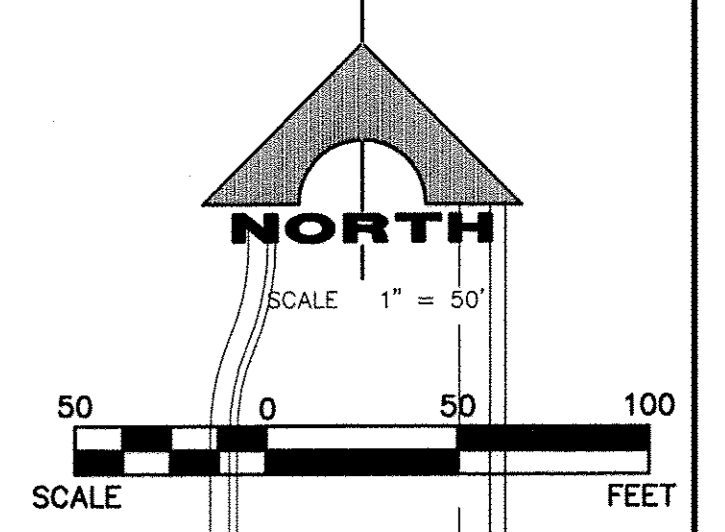


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROJECT CONTROL PLAN  
SOUTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE		DRAWING NO. <b>RSD2B</b>
HORIZ:	AS SHOWN	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		SHT. 500 OF 600
W.O. #:	2008-62	



"SDLM-6" PLAN  
SCALE: HORIZ. - 1" = 50'

**DISCLAIMER NOTE**

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**NOTE:**  
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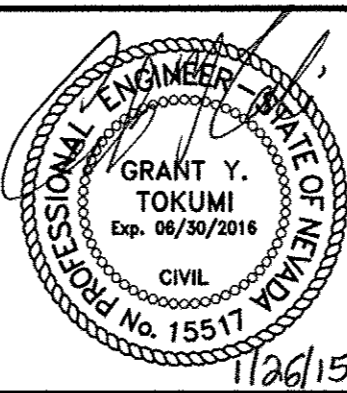
**Call before you Dig**  
Avoid hitting underground utility lines. It's costly.  
**Call**  
**811**  
OR  
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



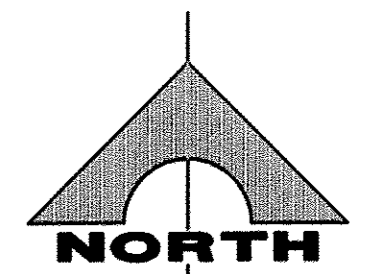
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
GRADING PLAN (72" RCP OUTFALL)  
SOUTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



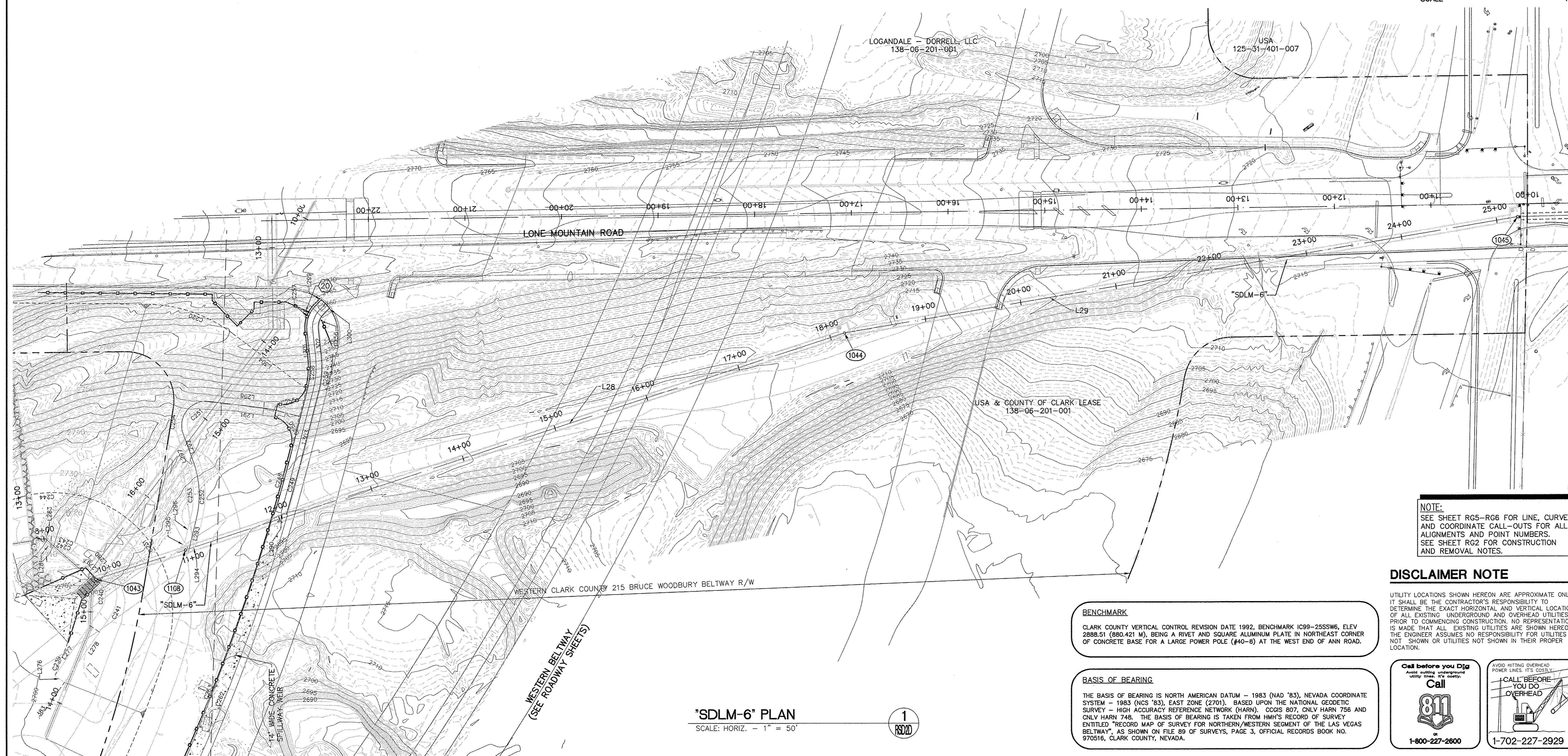
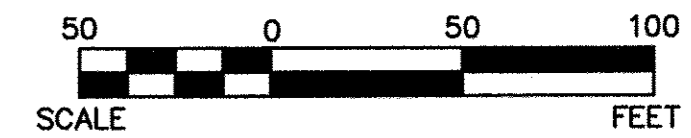
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE	
HORIZ:	AS SHOWN
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62
DRAWING NO.	RSD2C
SHT. 501	OF 600

BID NO. 603576-15



SCALE 1" = 50'



**NOTE:**  
SEE SHEET R65-R66 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET R62 FOR CONSTRUCTION AND REMOVAL NOTES.

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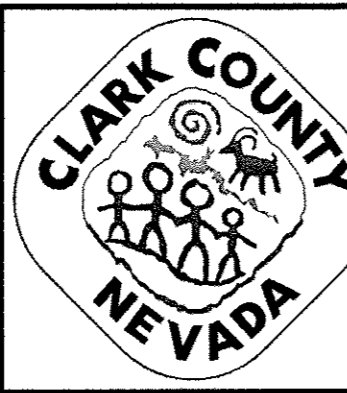
**BENCHMARK**  
CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992, BENCHMARK IC99-25SSW6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-8) AT THE WEST END OF ANN ROAD.

**BASIS OF BEARING**  
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN), COGIS 807, CNLV HARN 756 AND CNLV HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.

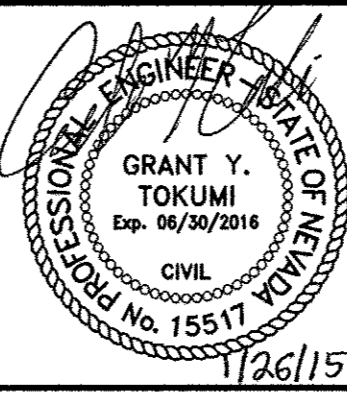


**"SDLM-6" PLAN**  
SCALE: HORIZ. - 1" = 50'

REV. NO.	DATE	DESCRIPTION	APPROVED



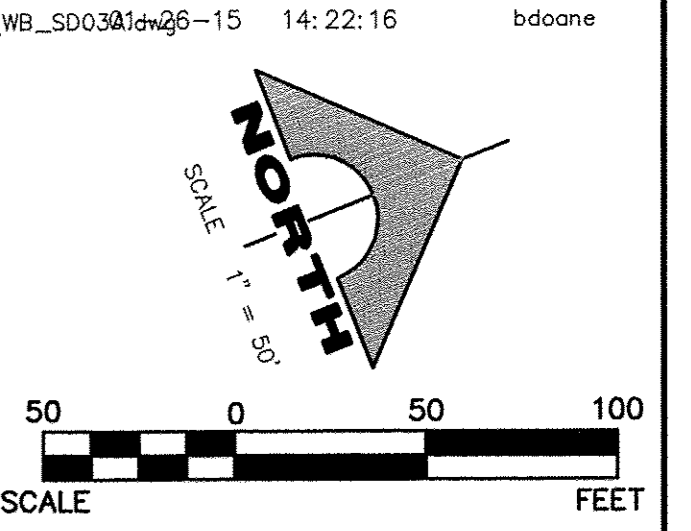
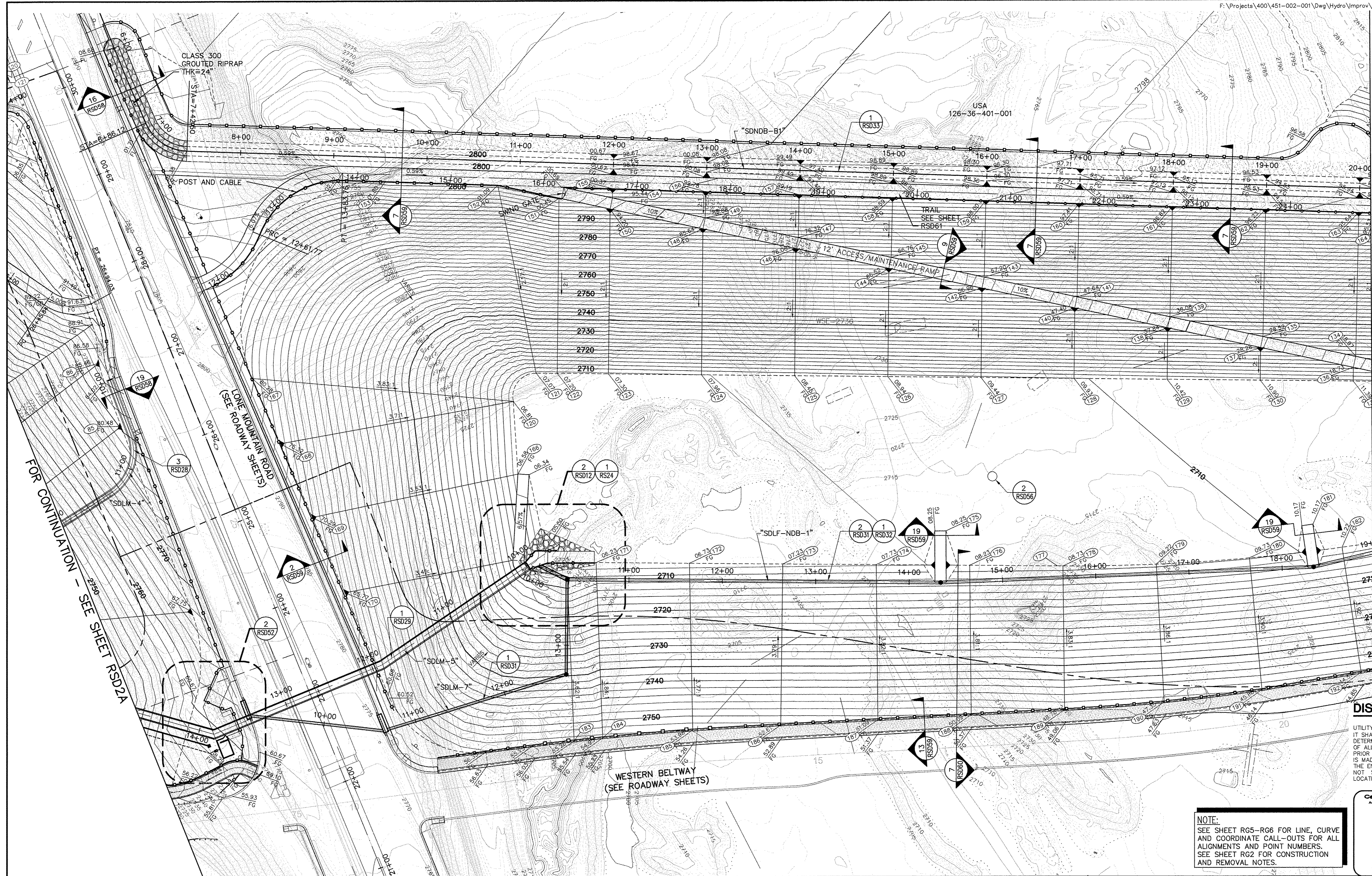
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROJECT CONTROL PLAN (72" RCP OUTFALL)  
SOUTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD2D</b>
FIELD BOOK	CCPW PROJECT #	
W.O. #: 2008-62	SHT. 502 OF 600	

BID NO. 603576-15



MATCHLINE - SEE SHEET RSD44

**DISCLAIMER NOTE**

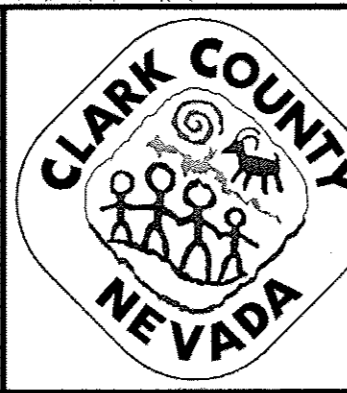
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

**NOTE:**  
SEE SHEET RG5-RG8 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

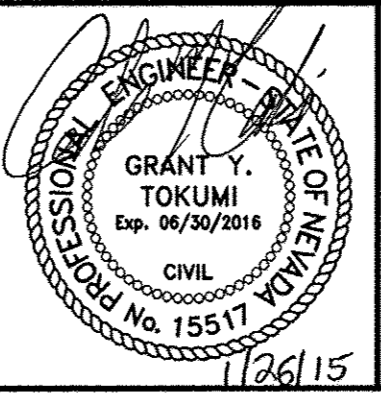
**Call before you Dig**  
Call 811  
1-800-227-2600

**AVOID HITTING OVERHEAD POWER LINES. IT'S DANGEROUS!**  
CALL BEFORE YOU DO OVERHEAD

REV. NO.	DATE	DESCRIPTION	APPROVED



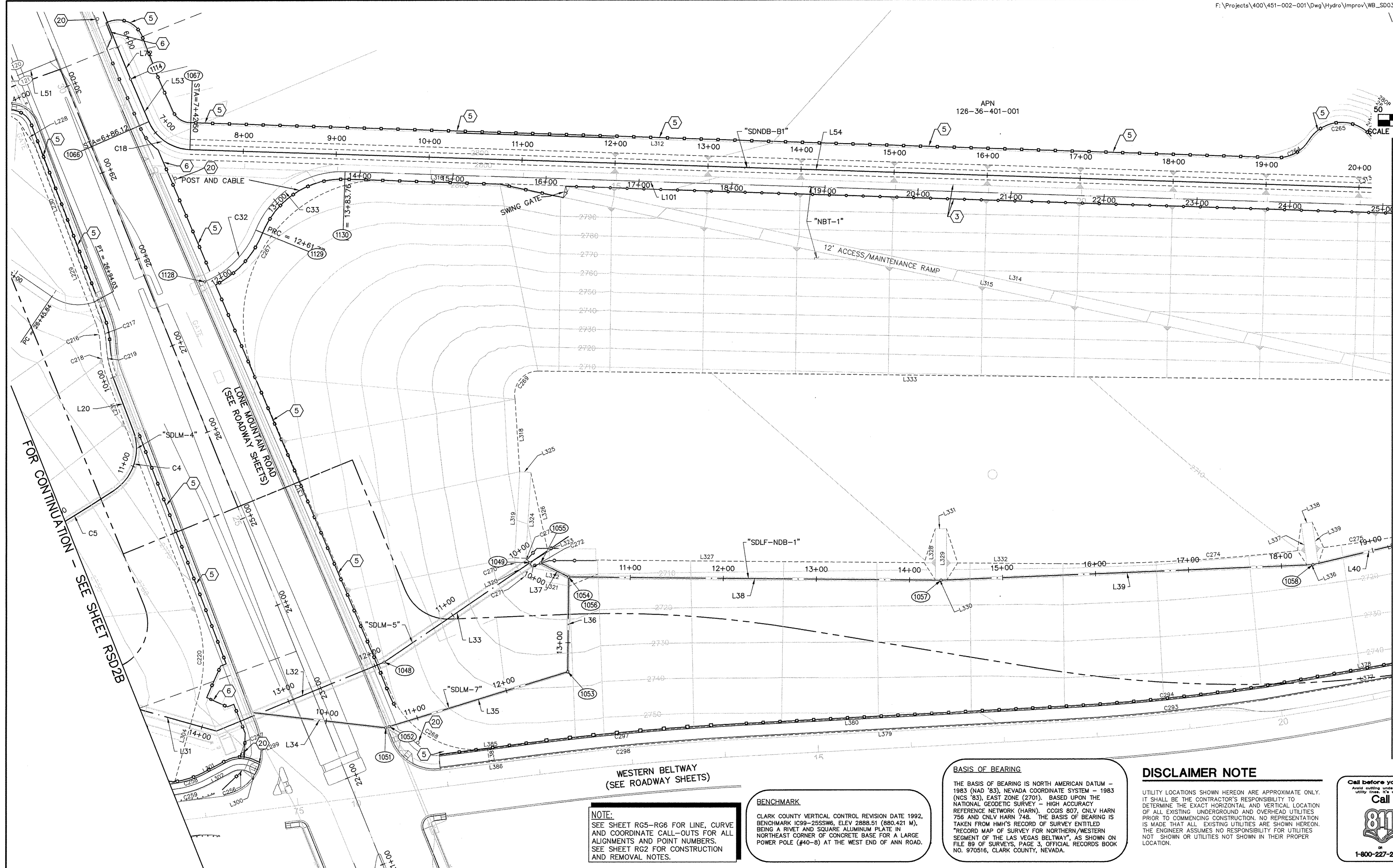
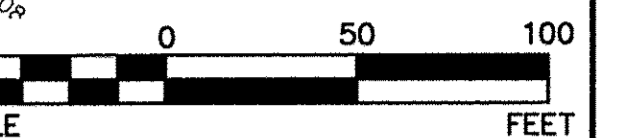
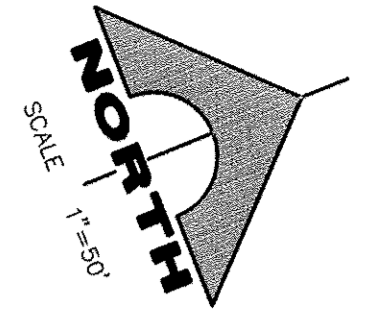
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING PLAN**  
**NORTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD3A</b>
FIELD BOOK	CCPW PROJECT #	SHT. 503 OF 600
W.O. #: 2008-62		

BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD2B

MATCHLINE - SEE SHEET RSD4B

**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

**BENCHMARK**  
CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992. BENCHMARK IC99-25SSW6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-8) AT THE WEST END OF ANN ROAD.

**BASIS OF BEARING**  
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701). BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN), CGCS 807, ONLY HARN 756 AND ONLY HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.

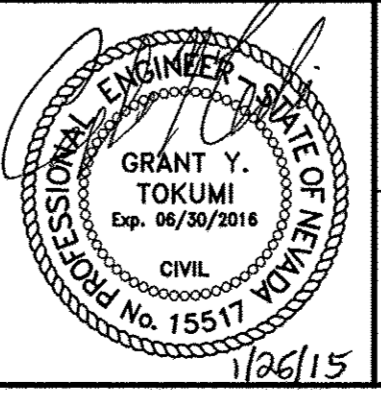
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REV. NO.	DATE	DESCRIPTION	APPROVED



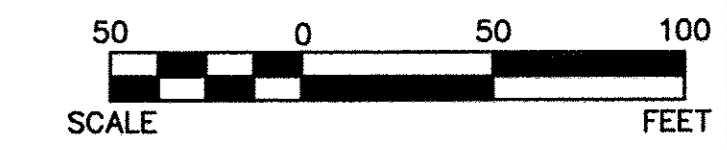
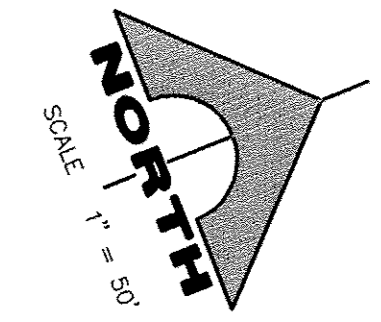
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROJECT CONTROL PLAN  
NORTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

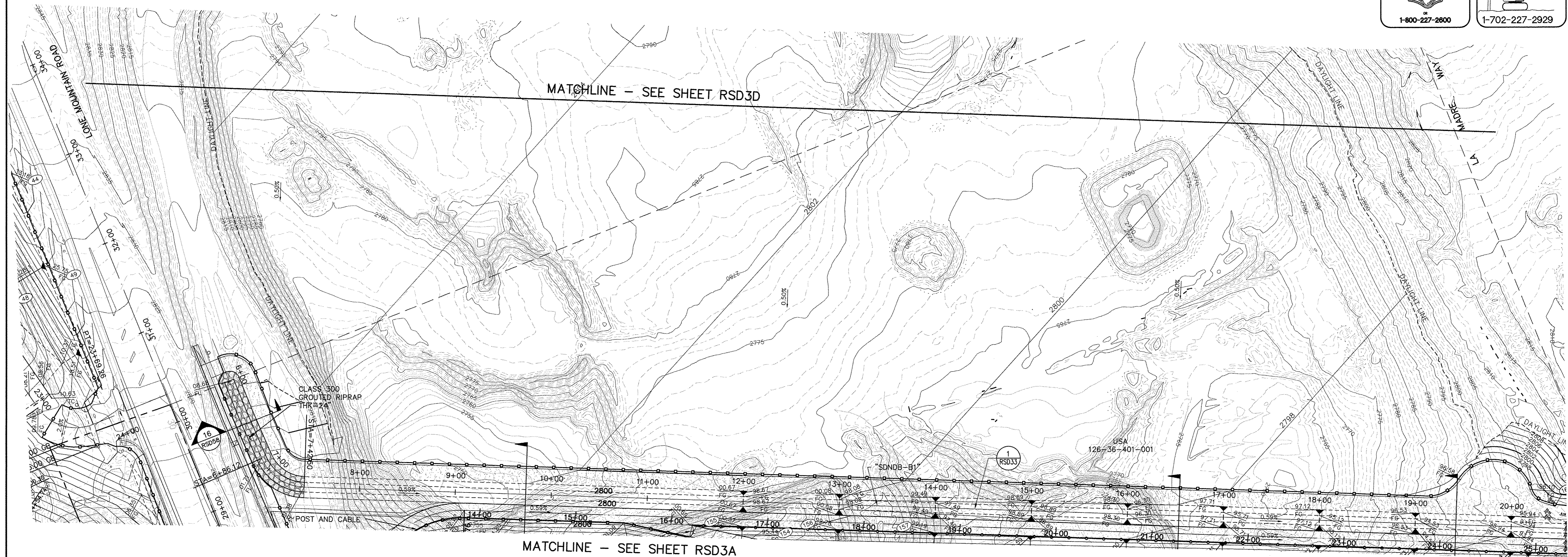
SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD3B</b>
FIELD BOOK	CCPW PROJECT #	
W.O. #: 2008-62	SHT. 504 OF 600	

BID NO. 603576-15

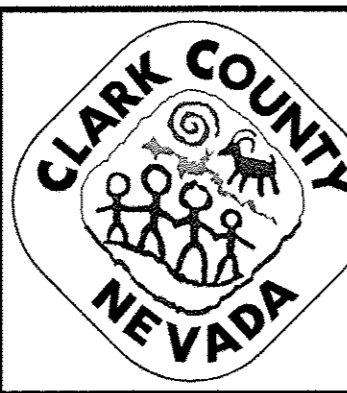


**DISCLAIMER NOTE**

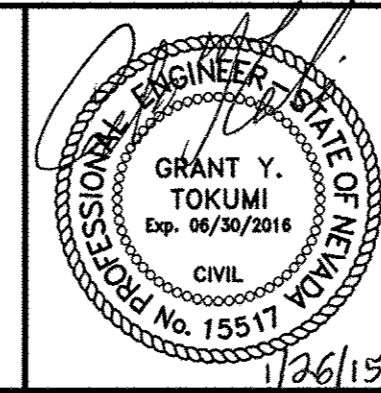
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REV. NO.	DATE	DESCRIPTION	APPROVED



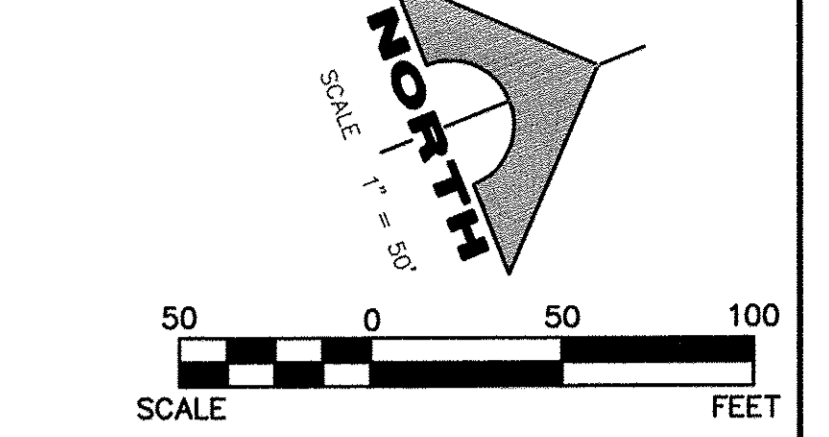
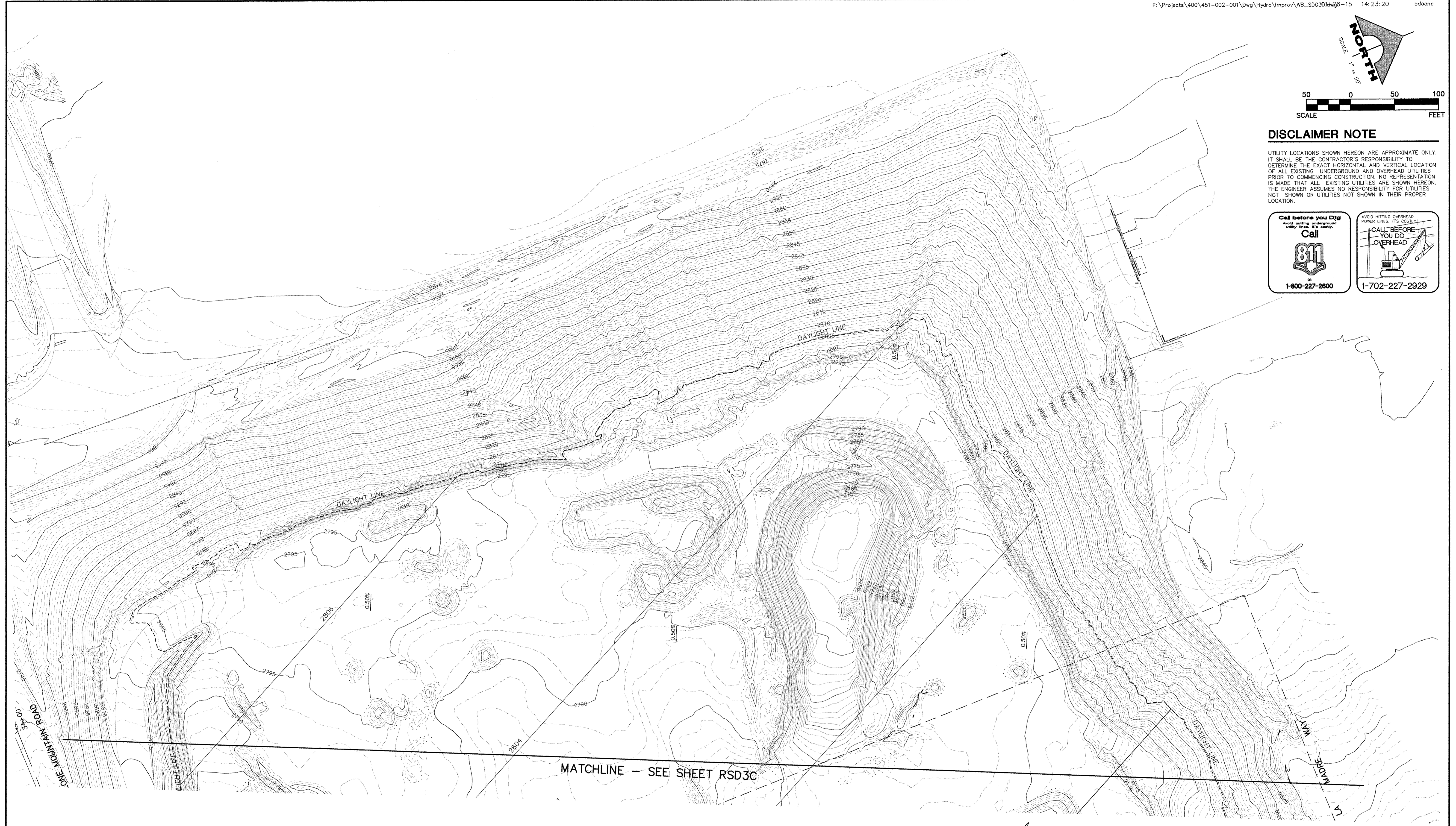
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING PLAN**  
**NORTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD3C</b>
FIELD BOOK		
CCPW PROJECT #		
W.O. #: 2008-62		SHT. 505 OF 600

BID NO. 603576-15



**DISCLAIMER NOTE**

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**Call before you Dig**  
Avoid cutting underground utility lines. IT'S COSTLY.

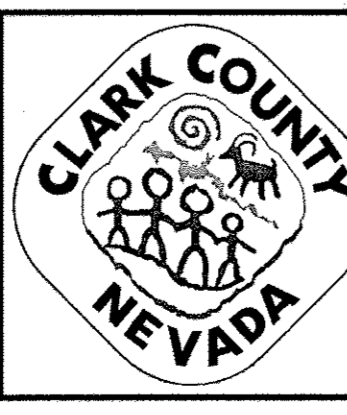
**Call**  
**811**  
or  
**1-800-227-2600**

**AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.**

**CALL BEFORE YOU DO OVERHEAD**

**1-702-227-2929**

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING PLAN**  
**NORTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

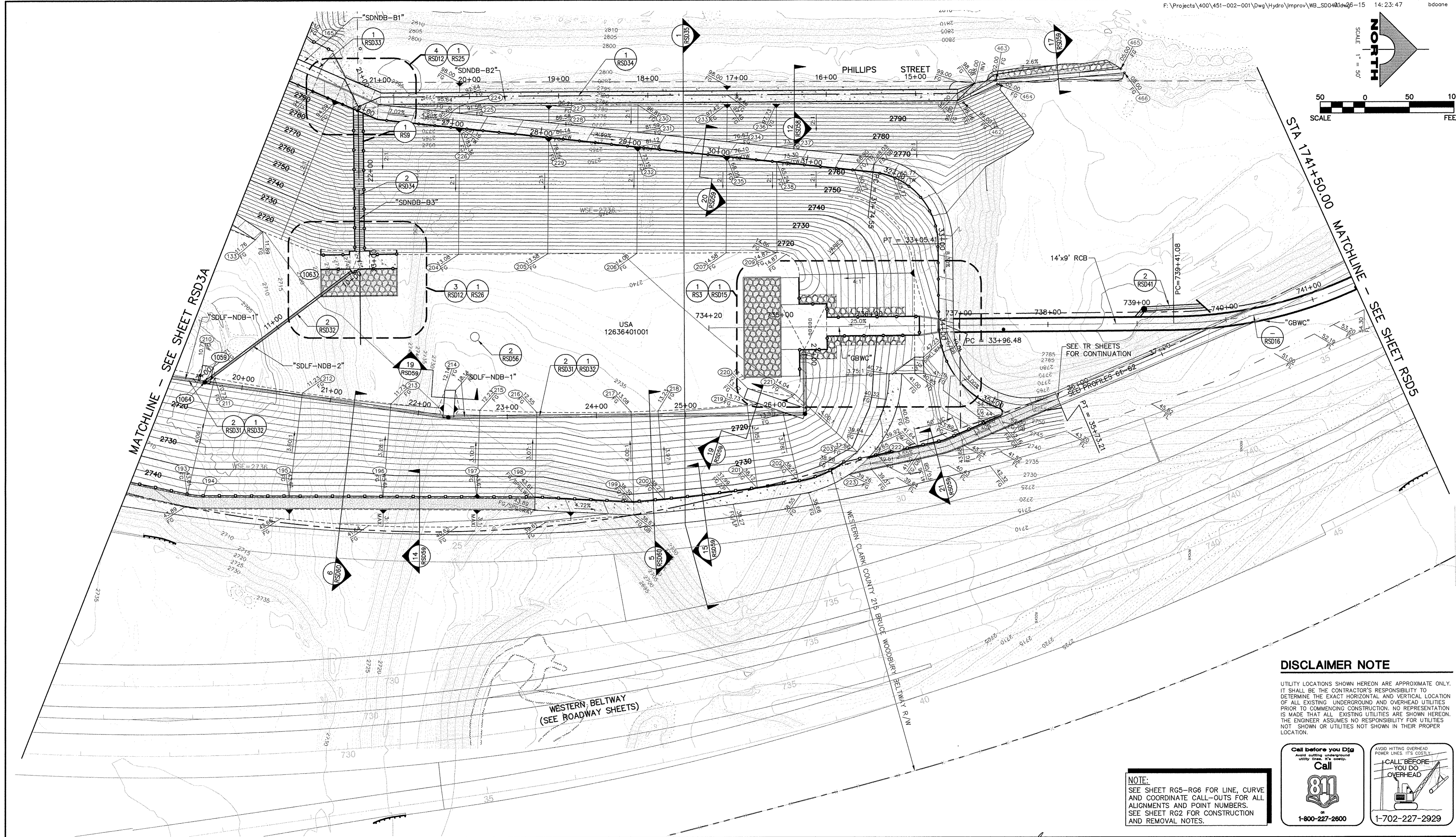
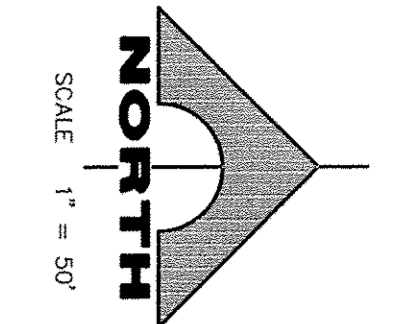


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		<b>RSD3D</b>
HORIZ:	AS SHOWN	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 506 OF 600





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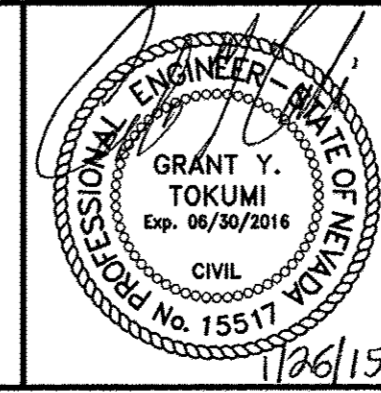
**NOTE:**  
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REV. NO.	DATE	DESCRIPTION	APPROVED



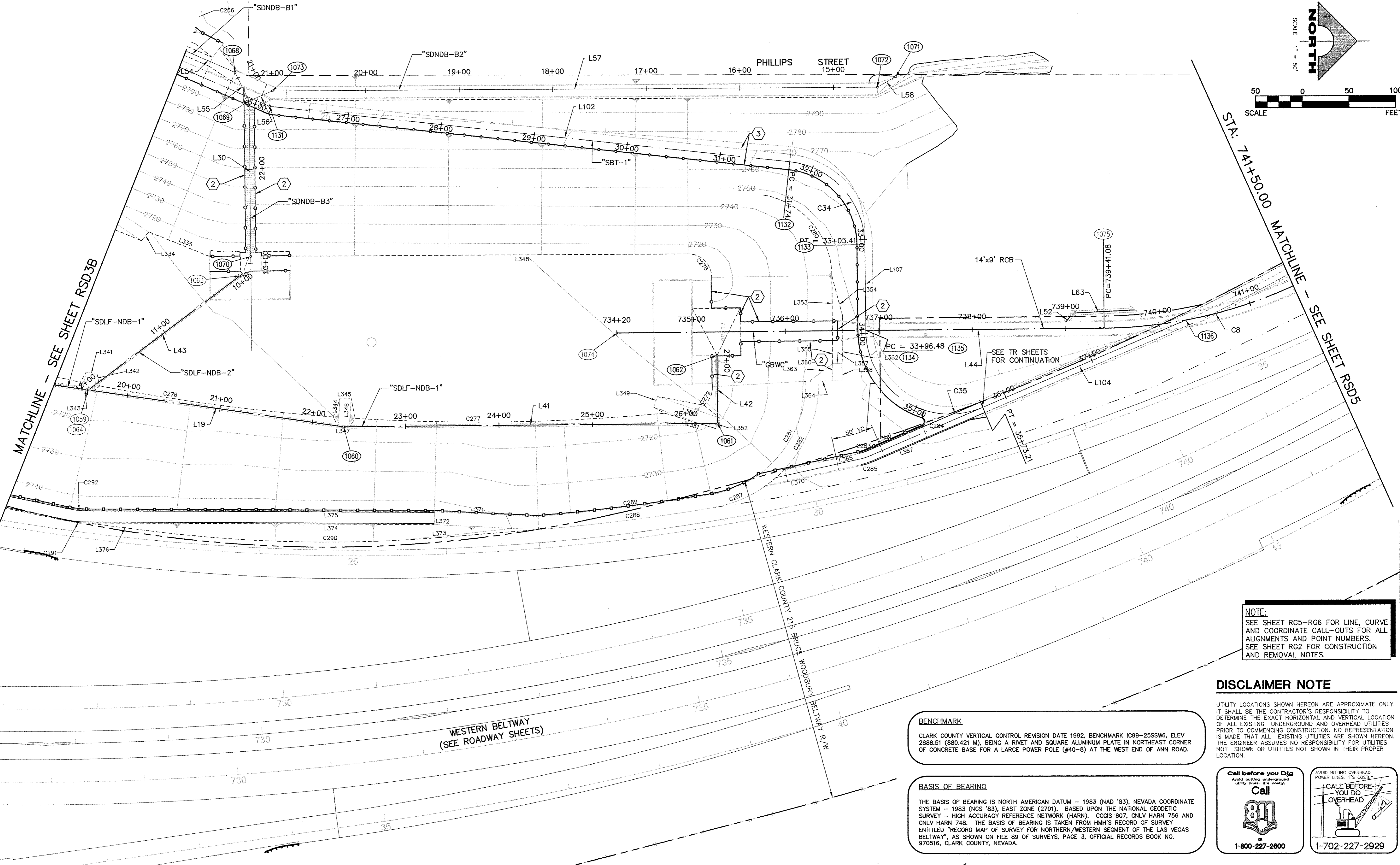
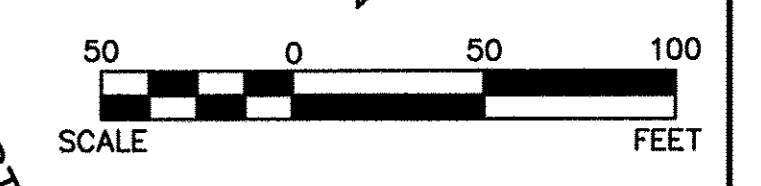
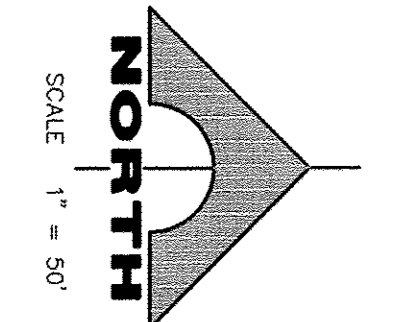
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING PLAN**  
**NORTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD4A</b>
FIELD BOOK	CCPW PROJECT #	
W.O. #: 2008-62	SHT. 507 OF 600	

BID NO. 603576-15



MATCHLINE - SEE SHEET RSD3B

STA: 741+50.00 MATCHLINE - SEE SHEET RSD5

**NOTE:**  
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**BENCHMARK**  
CLARK COUNTY VERTICAL CONTROL REVISION DATE 1992, BENCHMARK IC99-255SW6, ELEV 2888.51 (880.421 M), BEING A RIVET AND SQUARE ALUMINUM PLATE IN NORTHEAST CORNER OF CONCRETE BASE FOR A LARGE POWER POLE (#40-8) AT THE WEST END OF ANN ROAD.

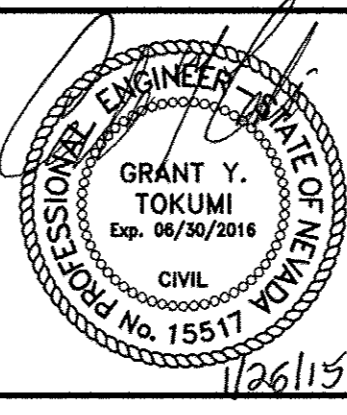
**BASIS OF BEARING**  
THE BASIS OF BEARING IS NORTH AMERICAN DATUM - 1983 (NAD '83), NEVADA COORDINATE SYSTEM - 1983 (NCS '83), EAST ZONE (2701), BASED UPON THE NATIONAL GEODETIC SURVEY - HIGH ACCURACY REFERENCE NETWORK (HARN), CCGIS 807, ONLY HARN 756 AND ONLY HARN 748. THE BASIS OF BEARING IS TAKEN FROM HMH'S RECORD OF SURVEY ENTITLED "RECORD MAP OF SURVEY FOR NORTHERN/WESTERN SEGMENT OF THE LAS VEGAS BELTWAY", AS SHOWN ON FILE 89 OF SURVEYS, PAGE 3, OFFICIAL RECORDS BOOK NO. 970516, CLARK COUNTY, NEVADA.



REV. NO.	DATE	DESCRIPTION	APPROVED



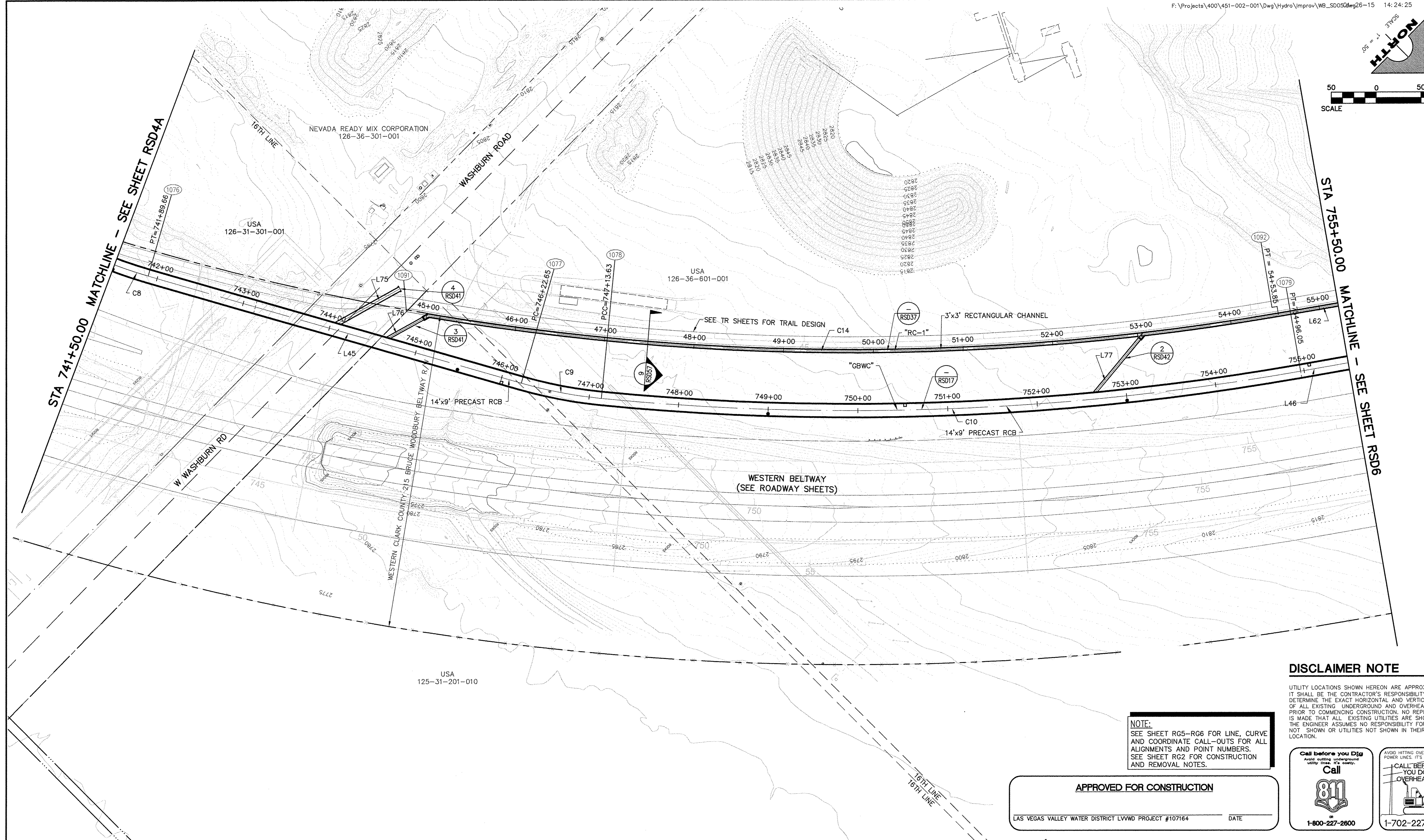
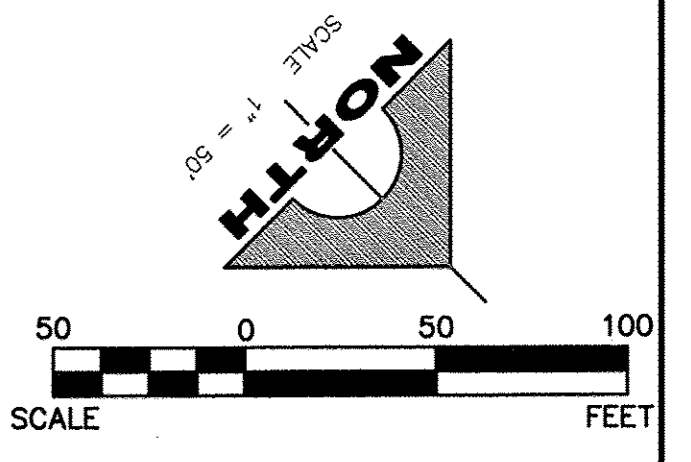
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROJECT CONTROL PLAN  
NORTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE  
HORIZ: AS SHOWN  
VERT: NONE  
FIELD BOOK  
CCPW PROJECT #  
W.O. #: 2008-62

DRAWING NO.  
**RSD4B**  
SHT. 508 OF 600



**DISCLAIMER NOTE**

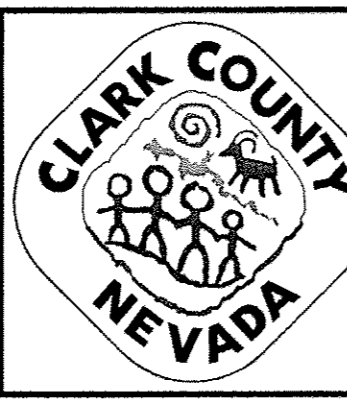
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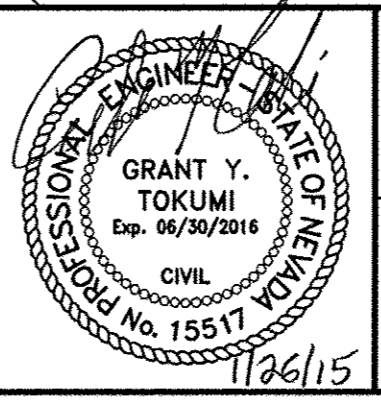
**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT LVVWD PROJECT #107164 DATE \_\_\_\_\_



REV. NO.	DATE	DESCRIPTION	APPROVED



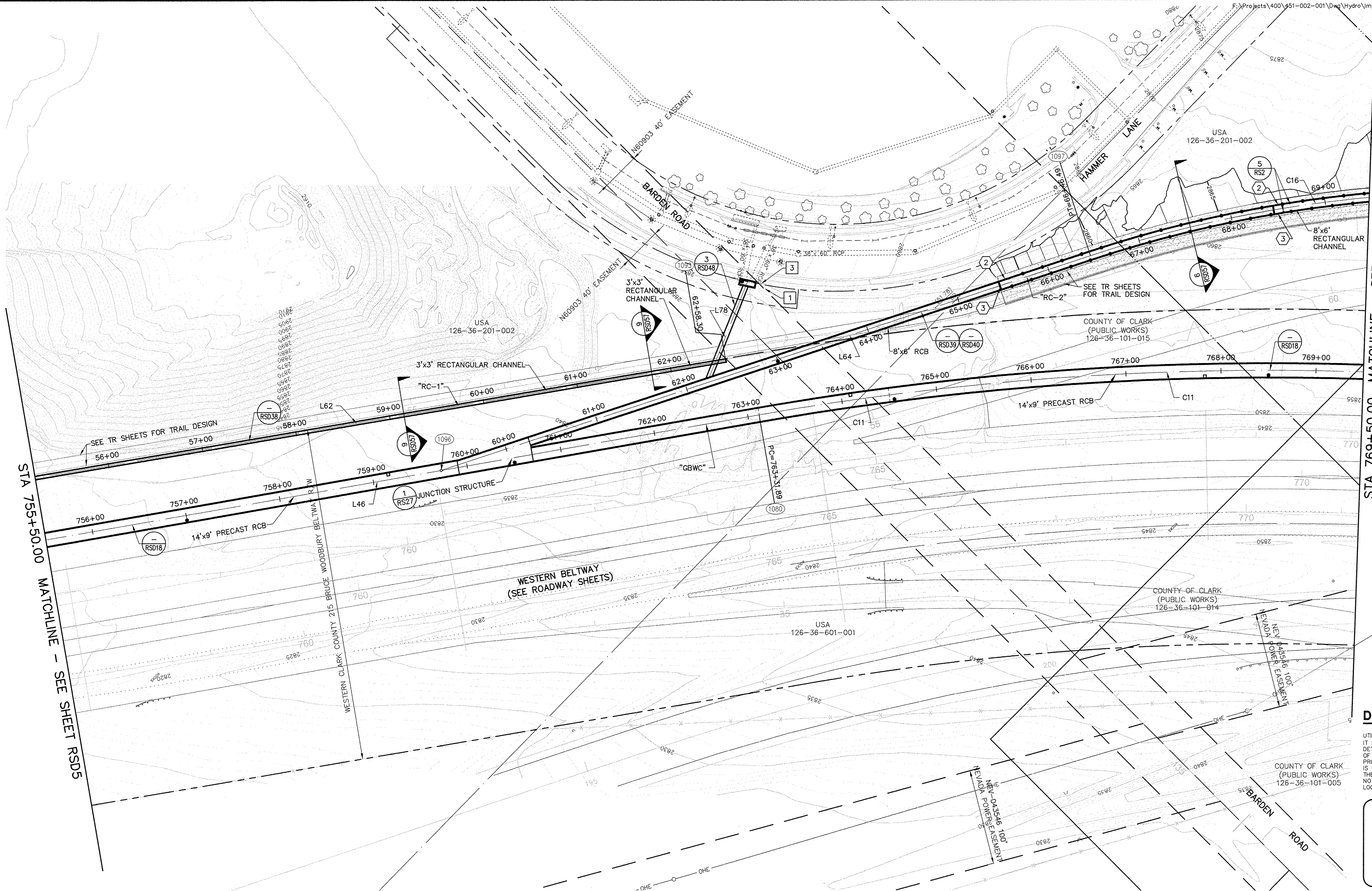
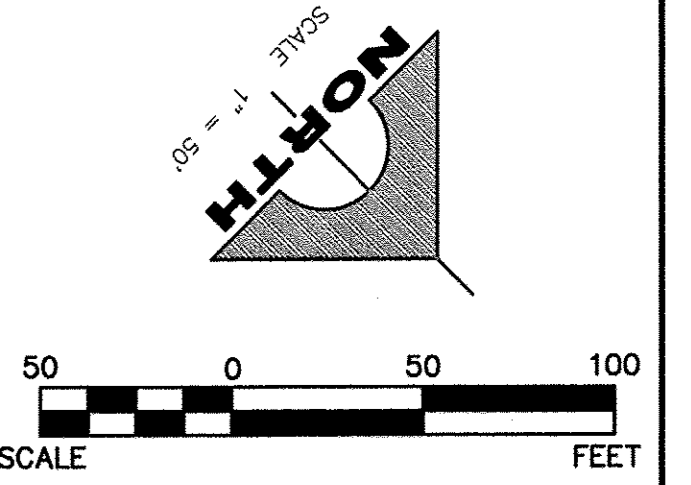
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
GRADING AND DRAINAGE PLAN  
STA 741+50.00 TO STA 755+50.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD5
VERT:	NONE	
FIELD BOOK		SHT. 509 OF 600
CCPW PROJECT #	W.O. #: 2008-62	

BID NO. 603576-15



STA 769+50.00 MATCHLINE - SEE SHEET RSD7

STA 755+50.00 MATCHLINE - SEE SHEET RSD5

**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

**DISCLAIMER NOTE**

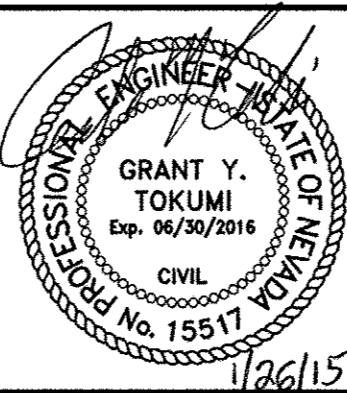
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING AND DRAINAGE PLAN**  
 STA 755+50.00 TO STA 769+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

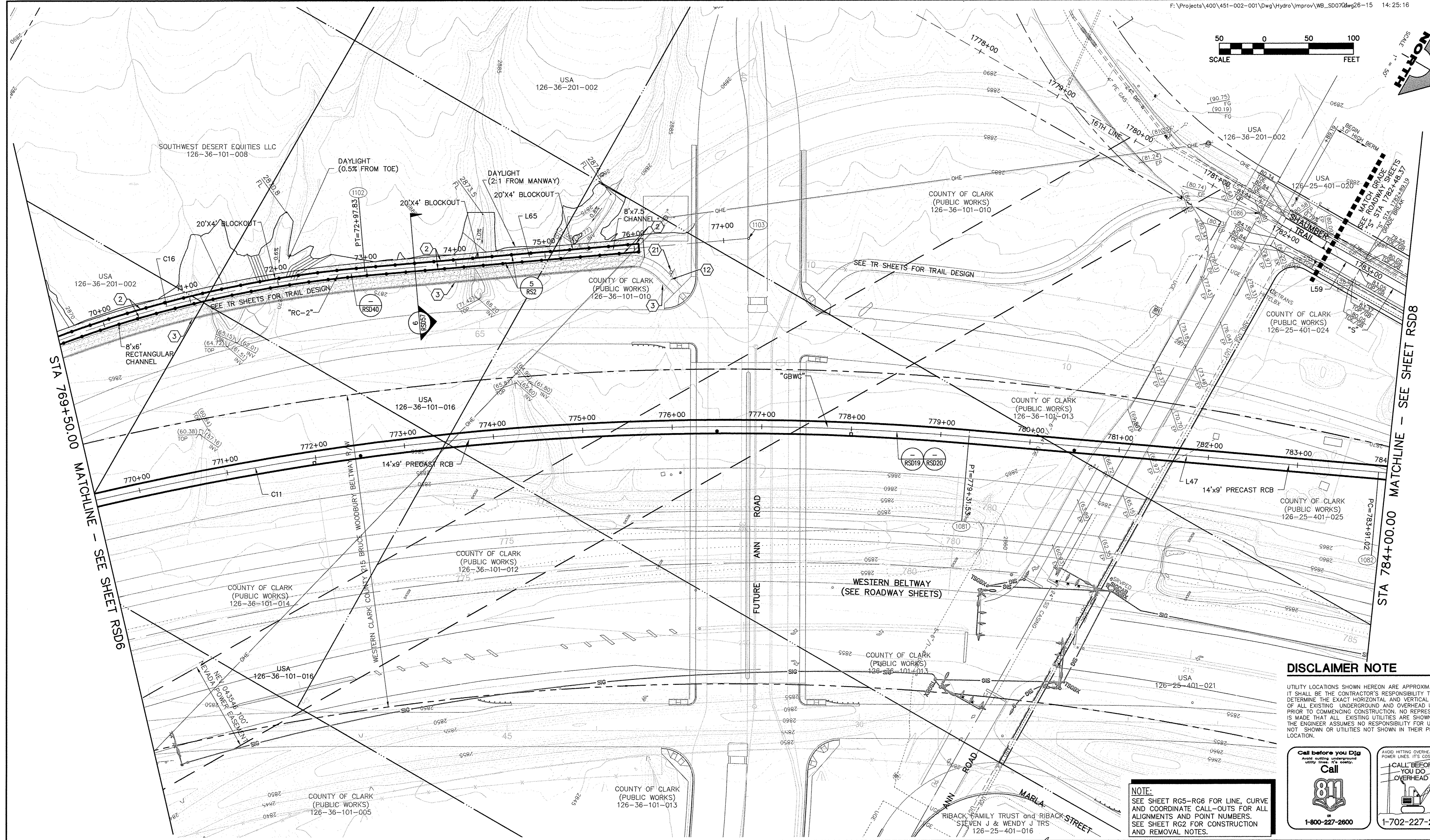
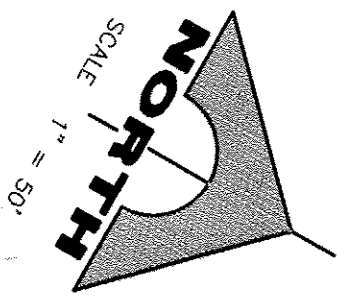


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 CCPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD6**  
 SHT. 510 OF 600

BID. NO. 603576-15



**DISCLAIMER NOTE**

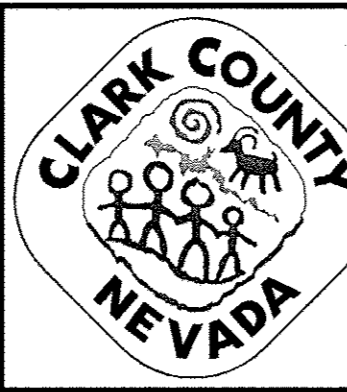
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**Call**  
  
1-800-227-2600

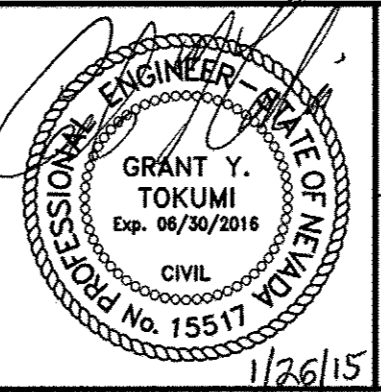
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
  
1-702-227-2929

**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

REV. NO.	DATE	DESCRIPTION	APPROVED



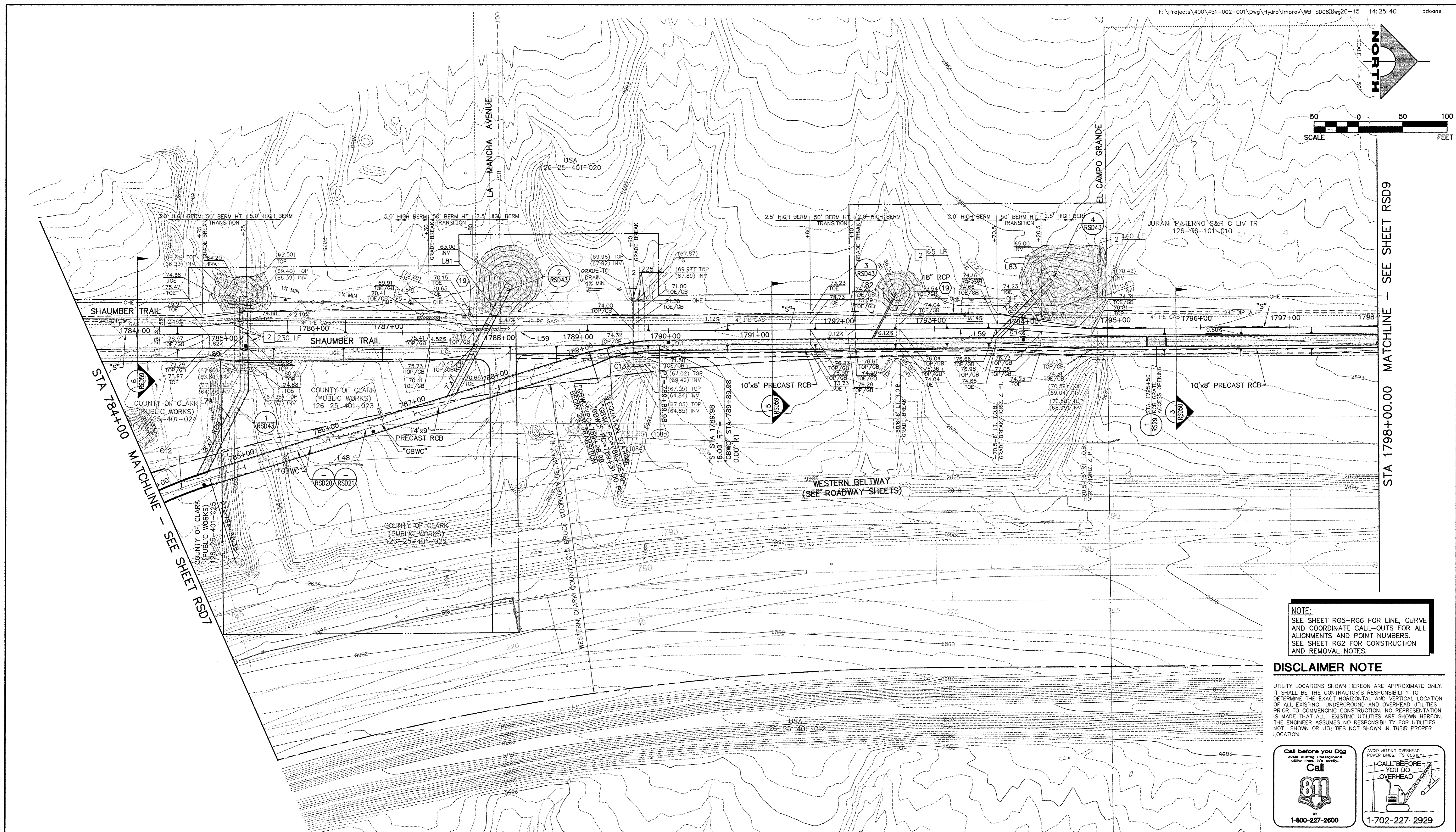
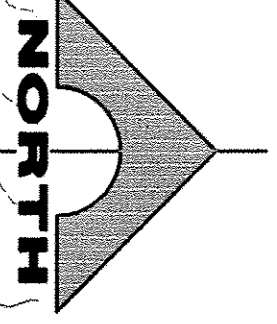
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING AND DRAINAGE PLAN**  
 STA 769+50.00 TO STA 784+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD7</b>
FIELD BOOK	CCPW PROJECT #	SHT. 511 OF 600
W.O. #: 2008-62		

BID NO. 603576-15



MATCHLINE - SEE SHEET RSD9  
STA 1798+00.00

MATCHLINE - SEE SHEET RSD7  
STA 784+00

**NOTE:**  
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SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

**DISCLAIMER NOTE**

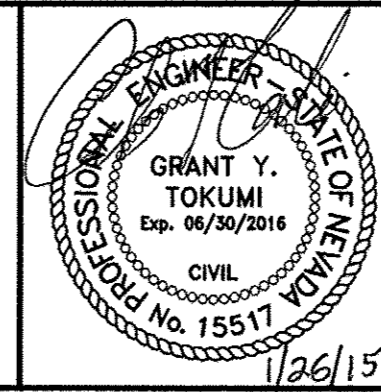
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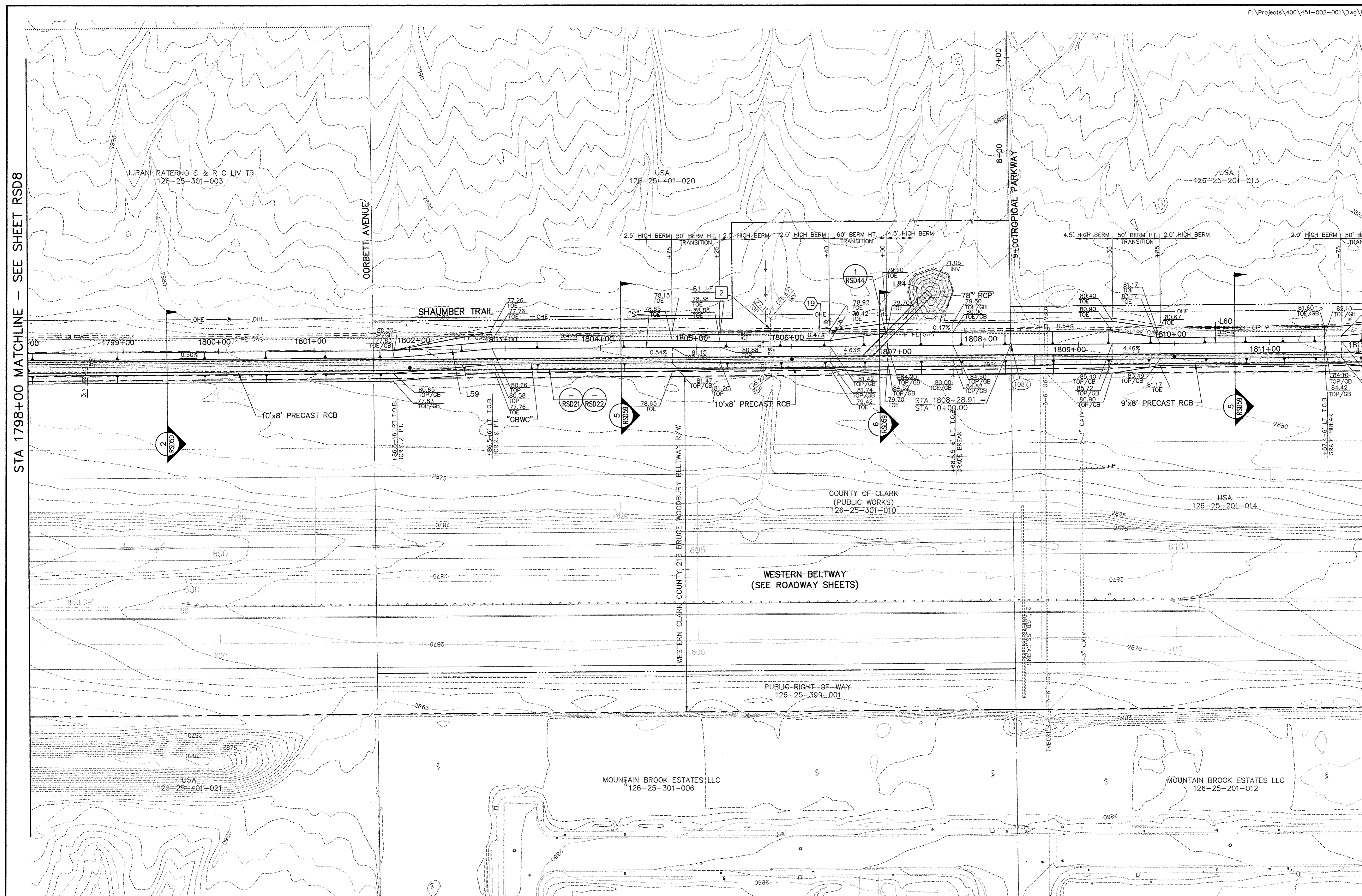
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING AND DRAINAGE PLAN**  
 STA 784+00.00 TO STA 1798+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
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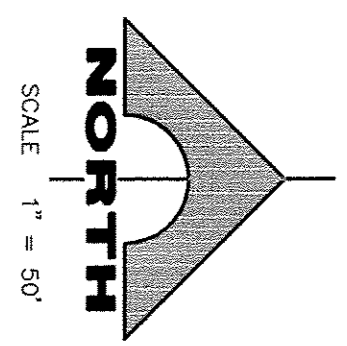
SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD8</b>
FIELD BOOK		
CCPW PROJECT #		
W.O. #: 2008-62		SHT. 512 OF 600

BID NO. 603576-15



STA 1798+00 MATCHLINE - SEE SHEET RSD8

STA 1812+00 MATCHLINE - SEE SHEET RSD10



**NOTE:**  
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**DISCLAIMER NOTE**

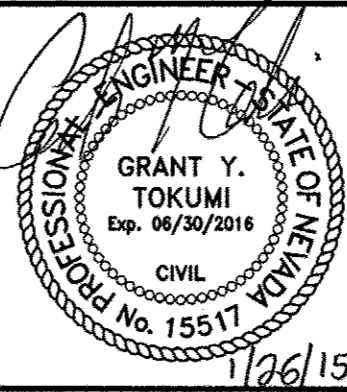
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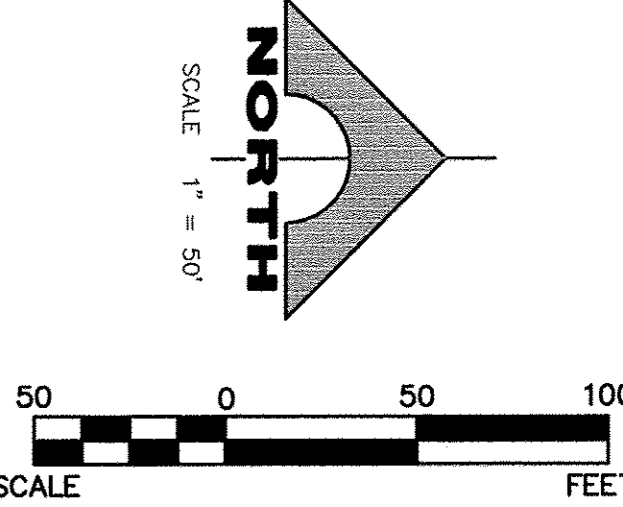
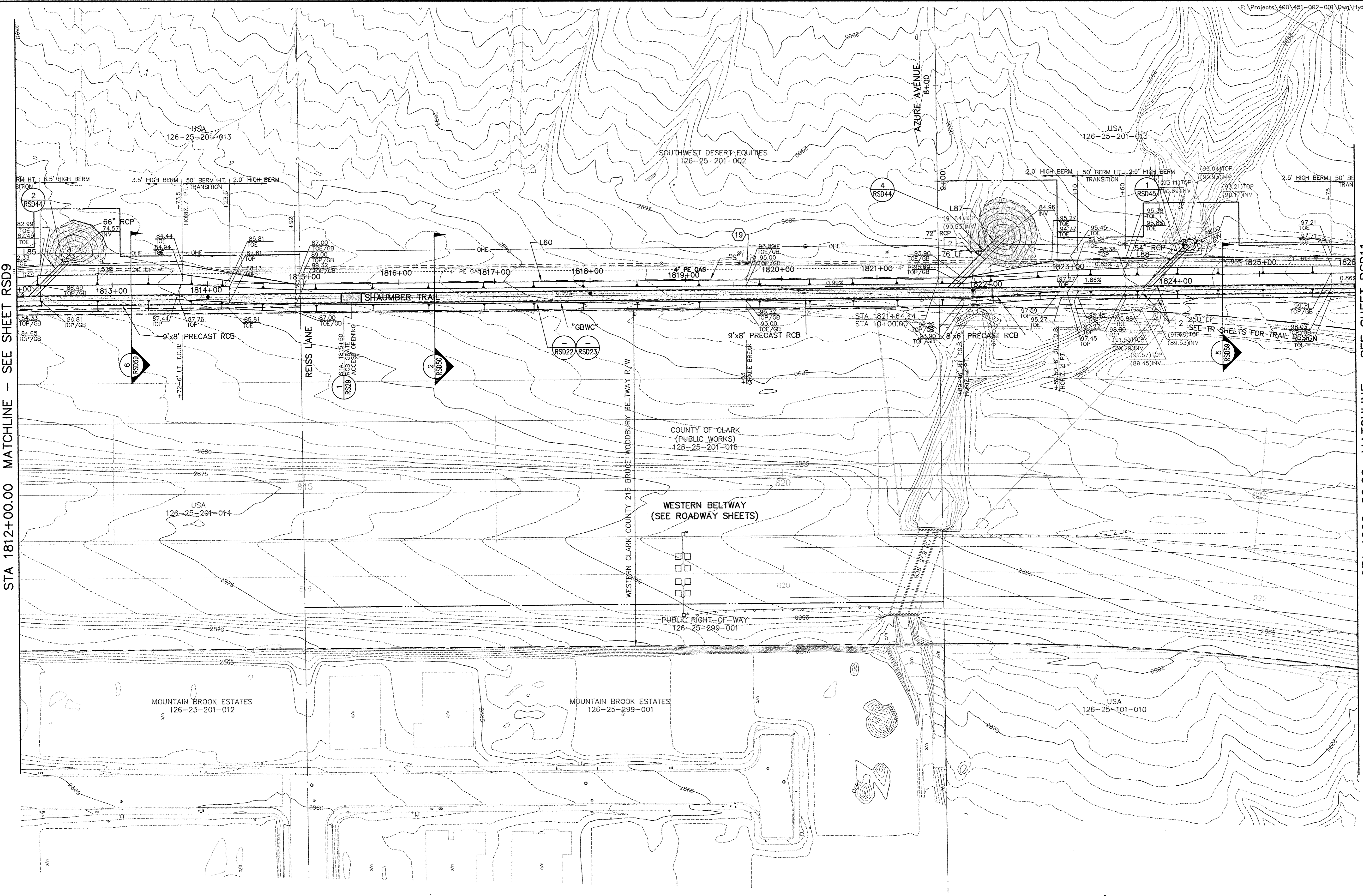
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING AND DRAINAGE PLAN**  
 STA 1798+00.00 TO STA 1812+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD9</b>
FIELD BOOK		
CCPW PROJECT #		
W.O. #: 2008-62		SHT. 513 OF 600

BID. NO. 603576-15



**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET R02 FOR CONSTRUCTION AND REMOVAL NOTES.

STA 1812+00.00 MATCHLINE - SEE SHEET RSD9

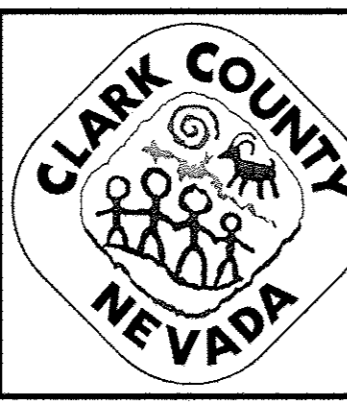
STA 1826+00.00 MATCHLINE - SEE SHEET RSD11

**DISCLAIMER NOTE**

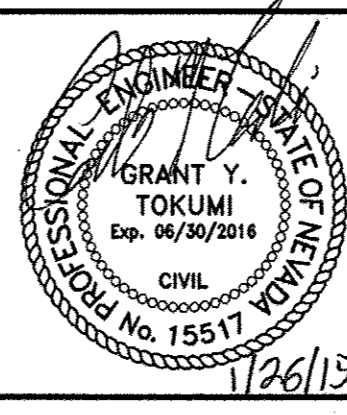
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**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 GRADING AND DRAINAGE PLAN  
 STA 1812+00.00 TO STA 1826+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



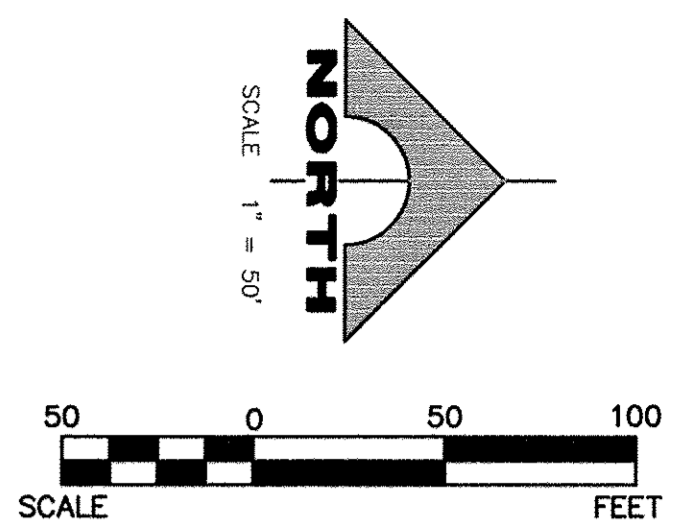
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
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SCALE  
 HORIZ: AS SHOWN  
 VERT: NONE  
 FIELD BOOK  
 COPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD10**  
 SHT. 514 OF 600

BID. NO. 603576-15





STA 1826+00.00 MATCHLINE - SEE SHEET RSD10



**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT LVWD PROJECT #107164      DATE \_\_\_\_\_

**NOTE:**  
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**DISCLAIMER NOTE**

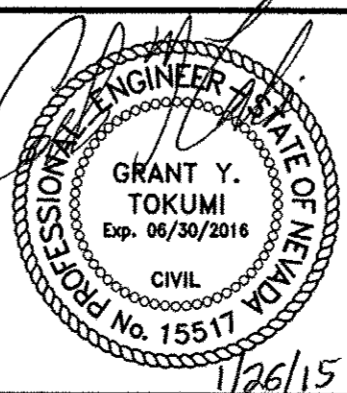
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**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GRADING AND DRAINAGE PLAN**  
 STA 1826+00.00 TO STA 1834+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

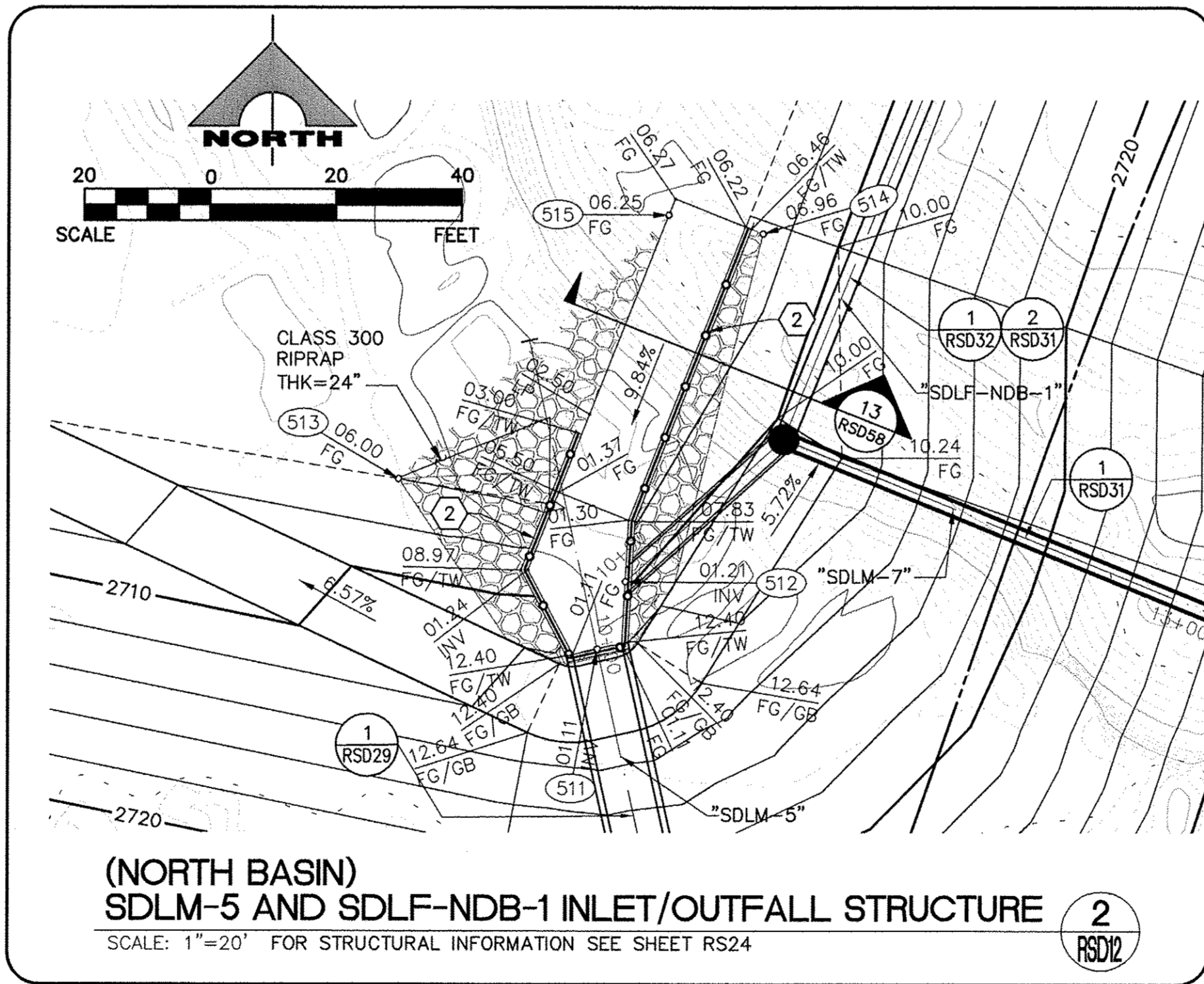
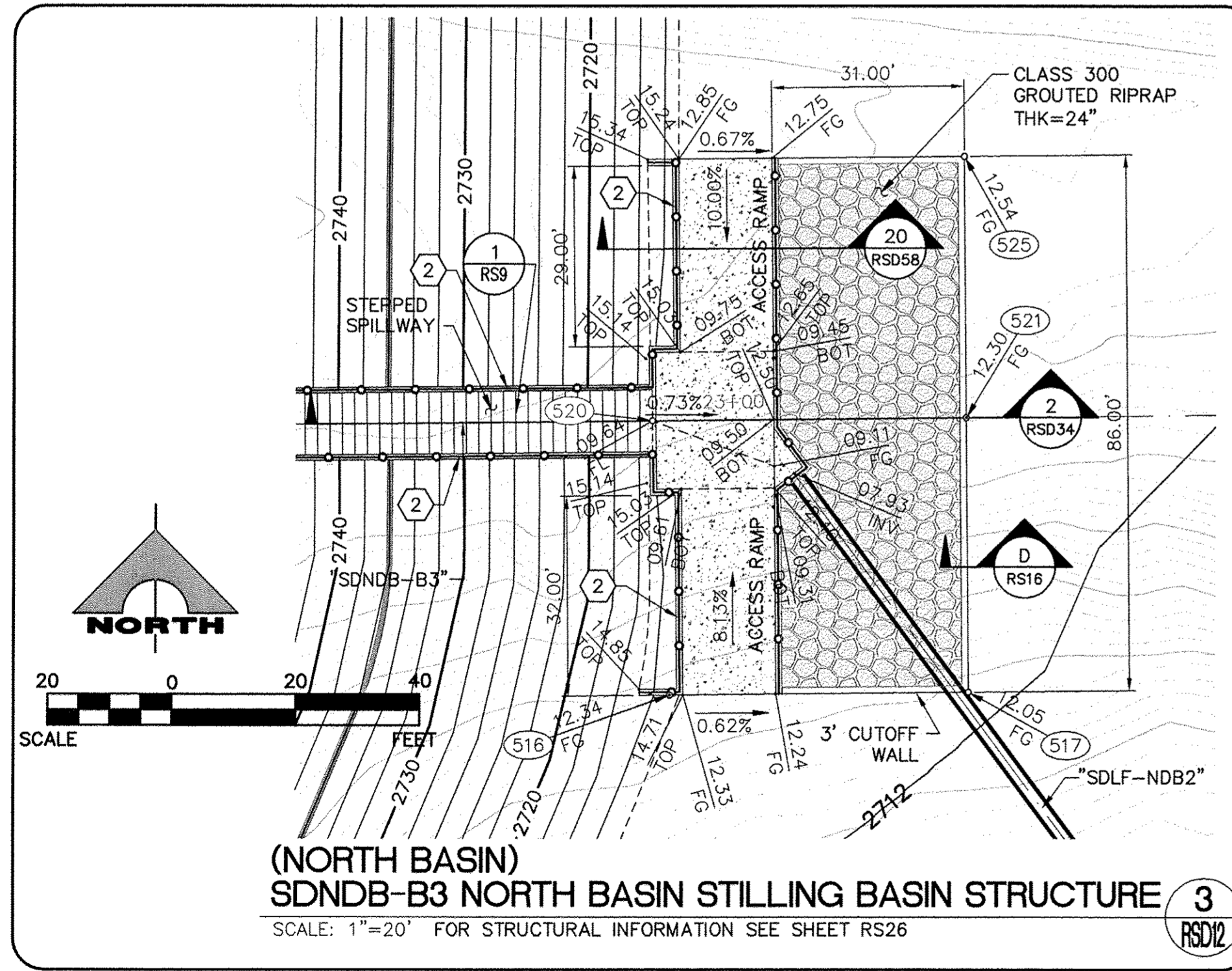
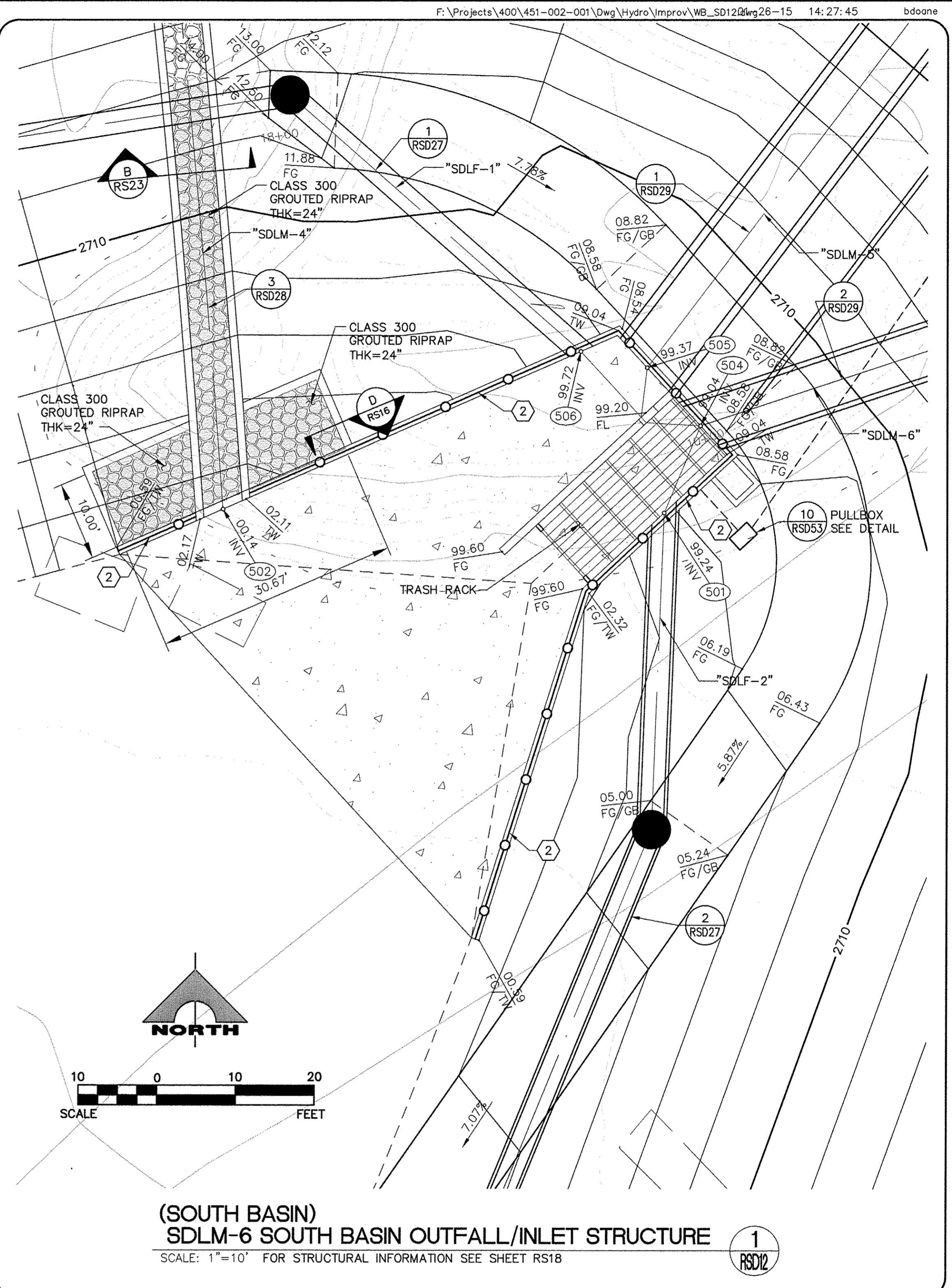
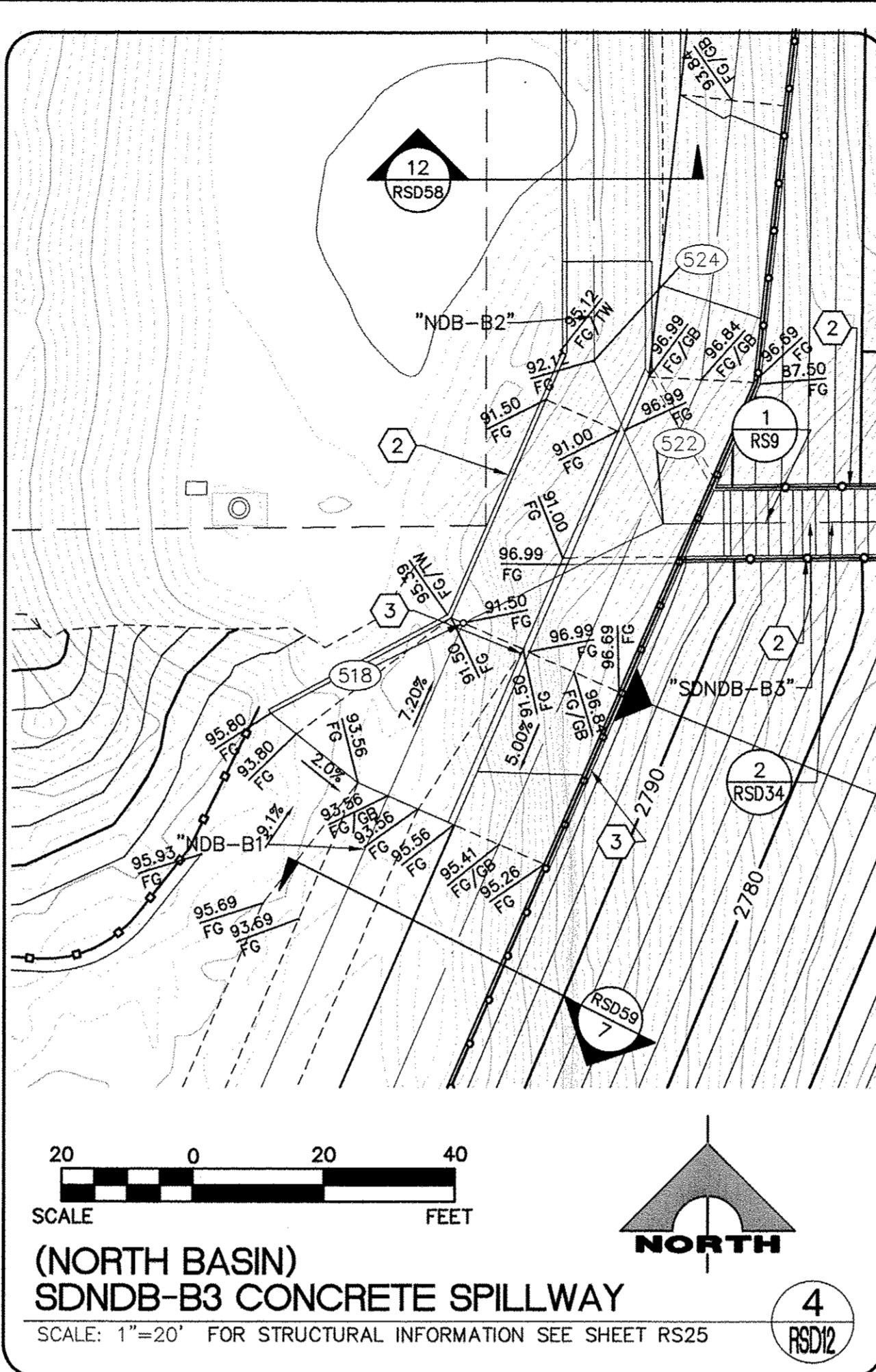
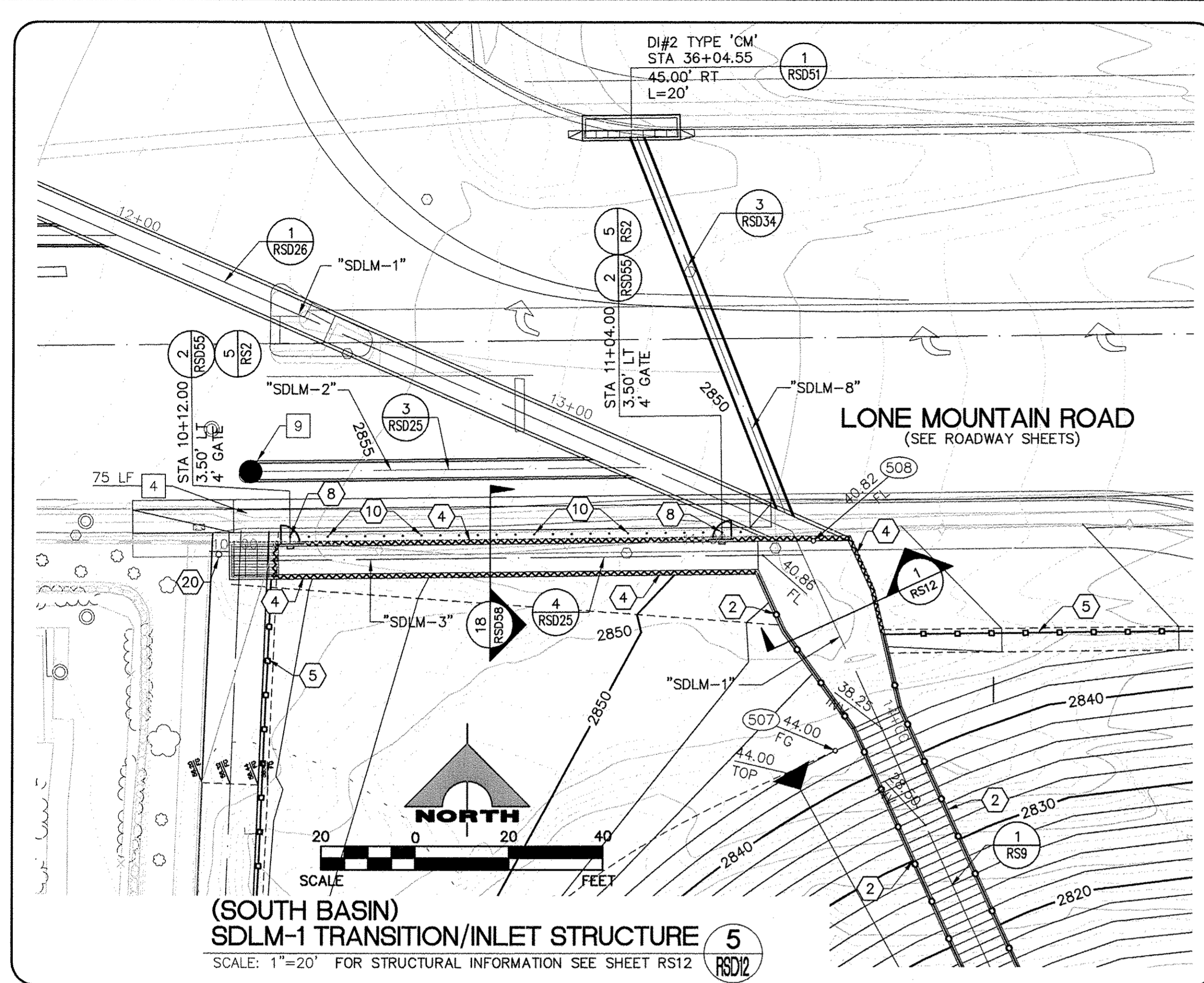


PROJECT No: 451.002.001    DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_    CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

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SCALE	
HORIZ: AS SHOWN	DRAWING NO.
VERT: NONE	<b>RSD11</b>
FIELD BOOK	
COPW PROJECT #	
W.O. #:	2008-62
	SHT. 515 OF 600

BID NO. 603576-15



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811  
1-800-227-2800

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1-702-227-2929

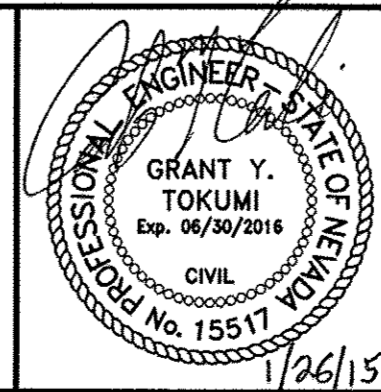
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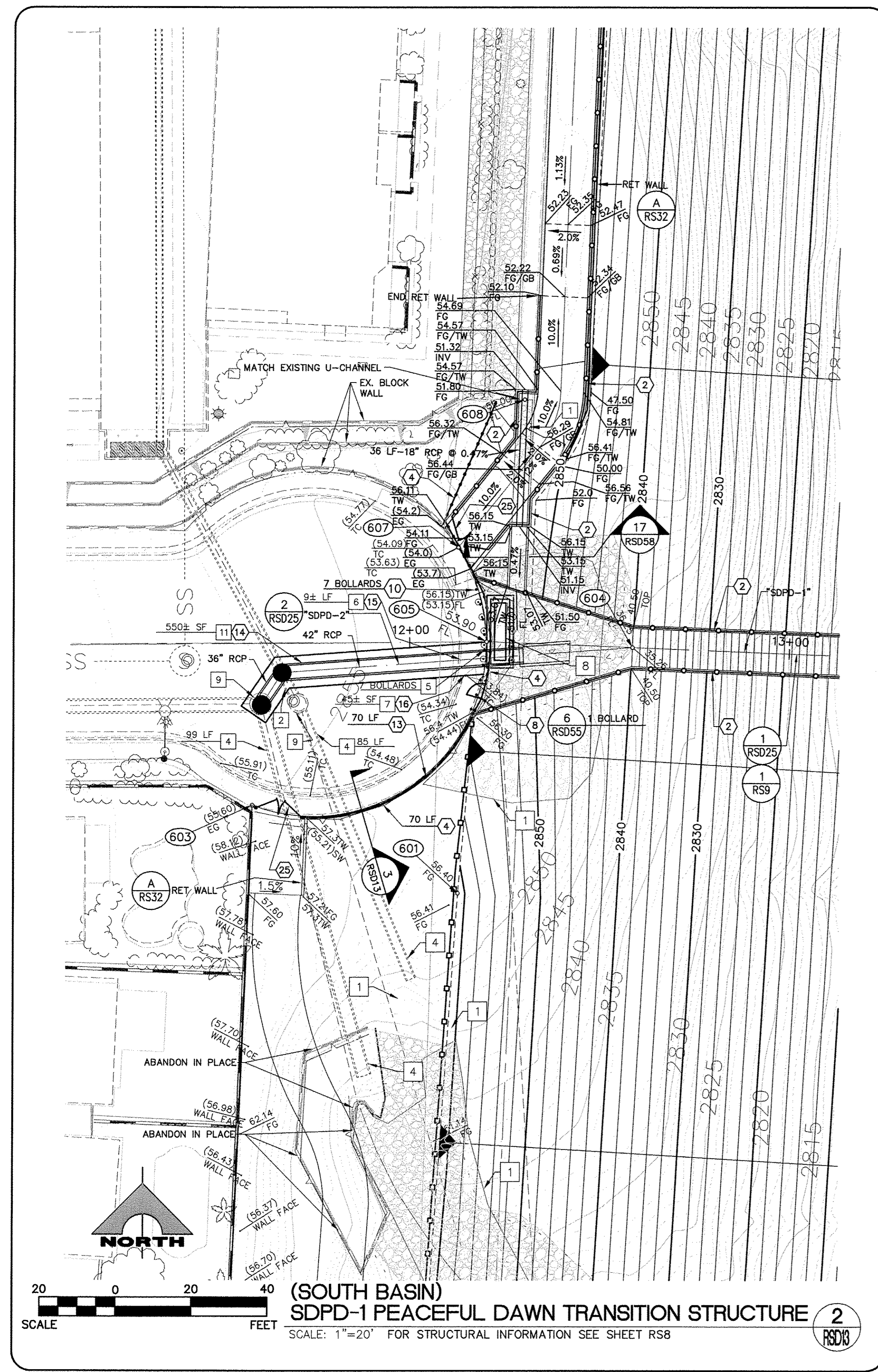
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
GRADING PLANS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

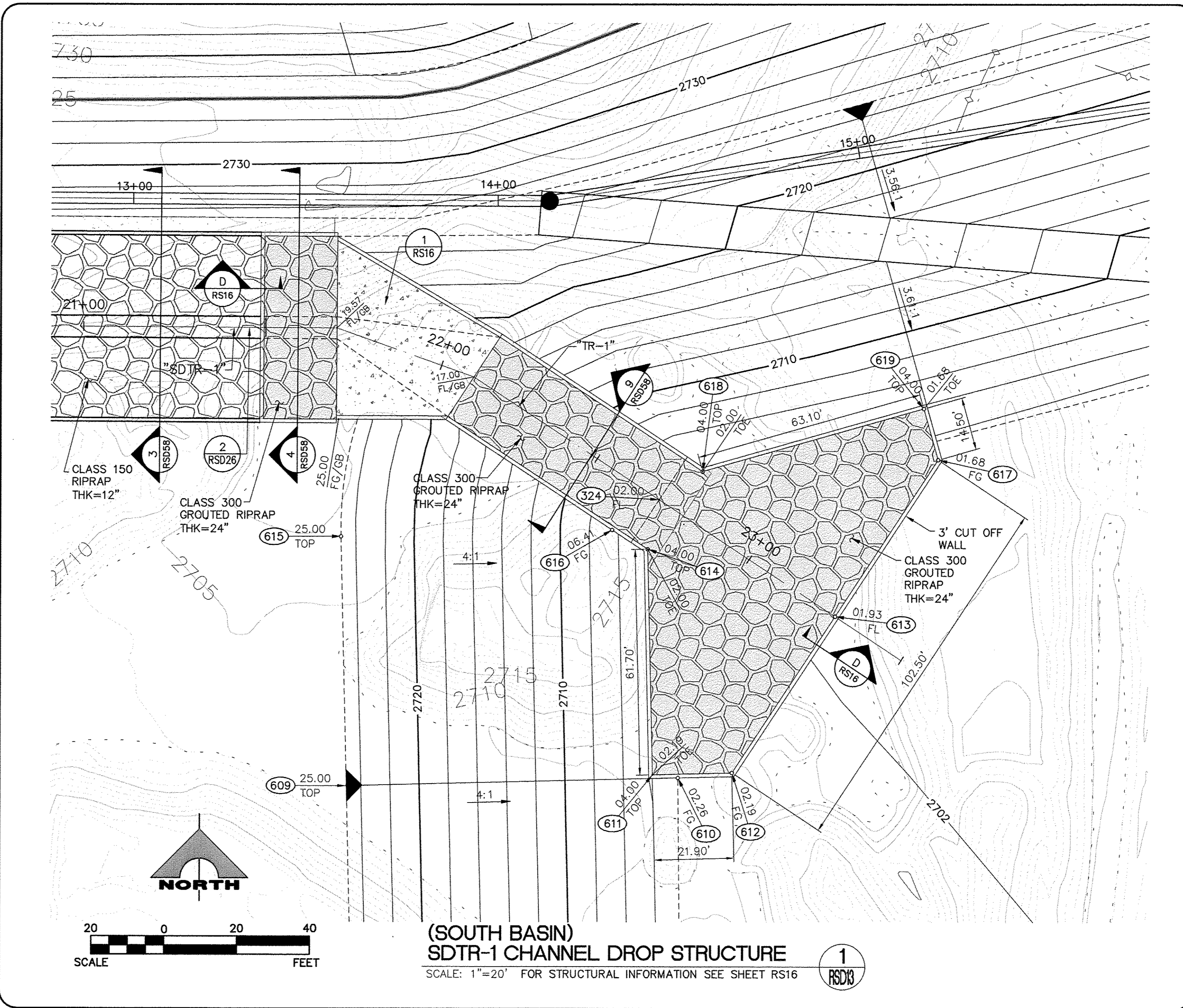


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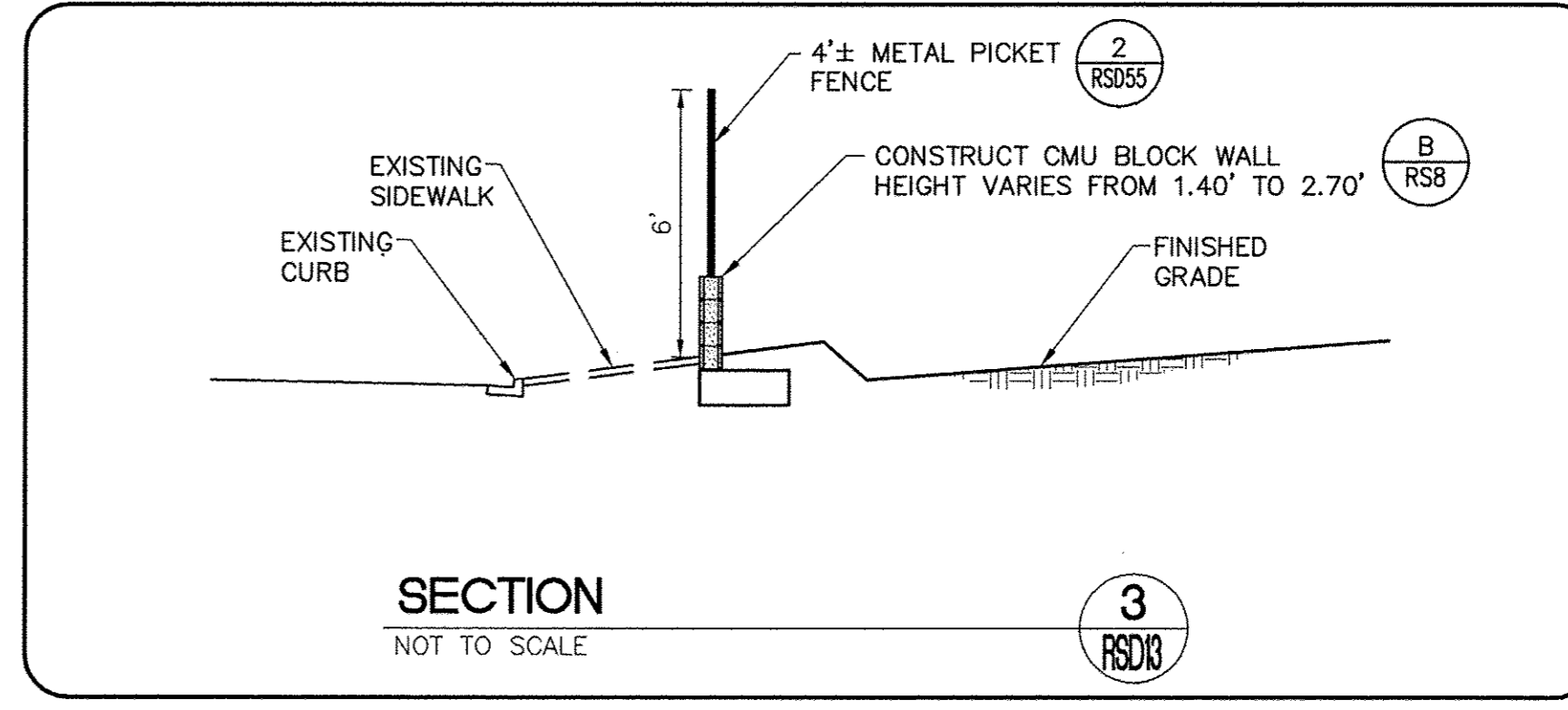
SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: AS SHOWN	<b>RSD12</b>
FIELD BOOK	CPW PROJECT #	W.O. #: 2008-62
		SHT. 516 OF 600



**(SOUTH BASIN)**  
SDPD-1 PEACEFUL DAWN TRANSITION STRUCTURE 2  
SCALE: 1"=20' FOR STRUCTURAL INFORMATION SEE SHEET R58



**(SOUTH BASIN)**  
SDTR-1 CHANNEL DROP STRUCTURE 1  
SCALE: 1"=20' FOR STRUCTURAL INFORMATION SEE SHEET R516



**CONSTRUCTION NOTES**

13 CONSTRUCT CMU BLOCK WALL (SEE DETAIL 3 R58)

**NOTE:**  
SEE SHEET R05-R06 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET R02 FOR CONSTRUCTION AND REMOVAL NOTES.

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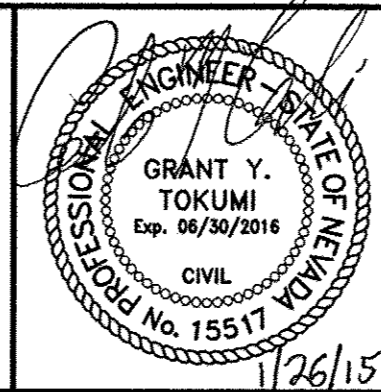
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
GRADING PLANS

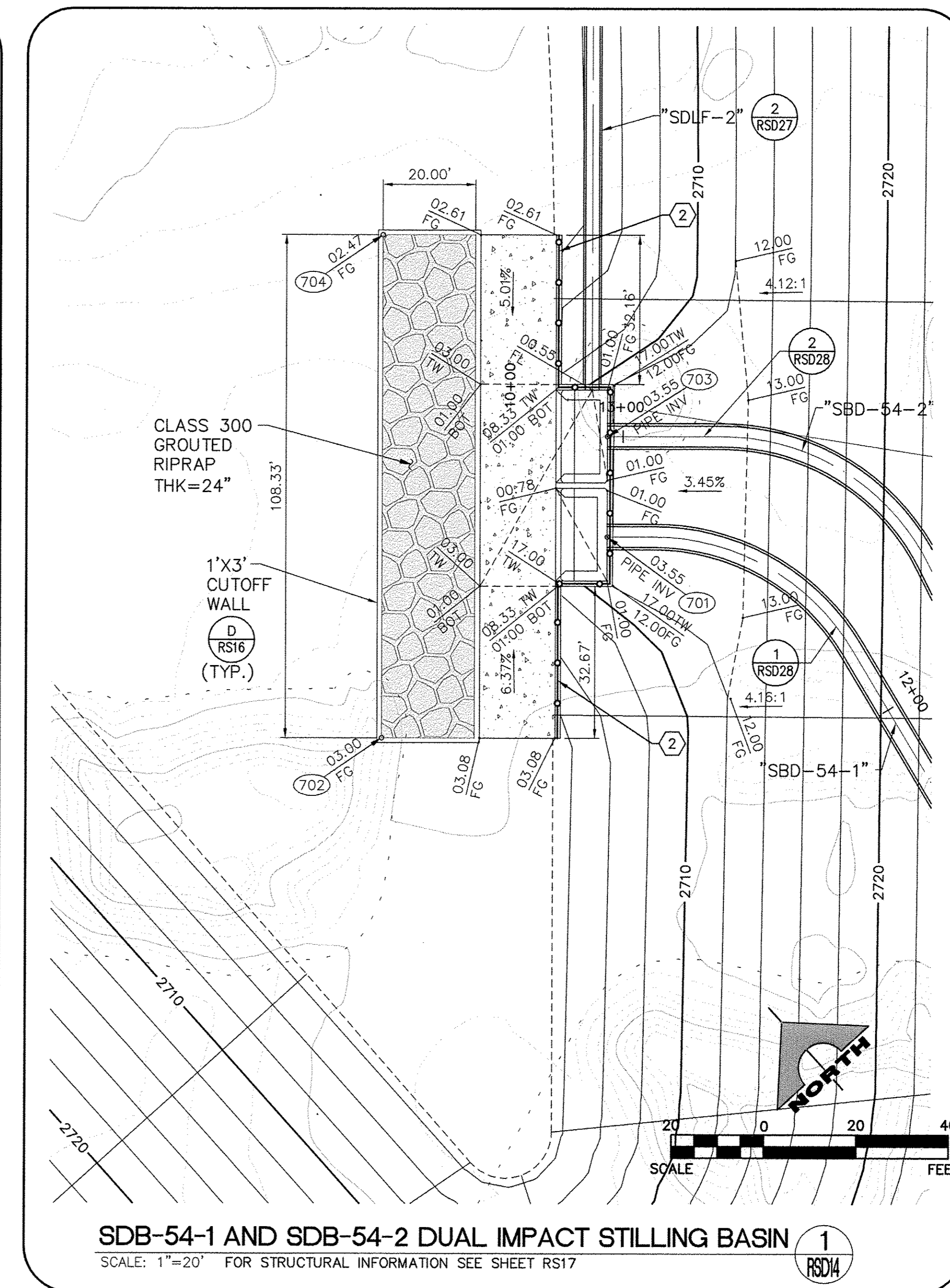
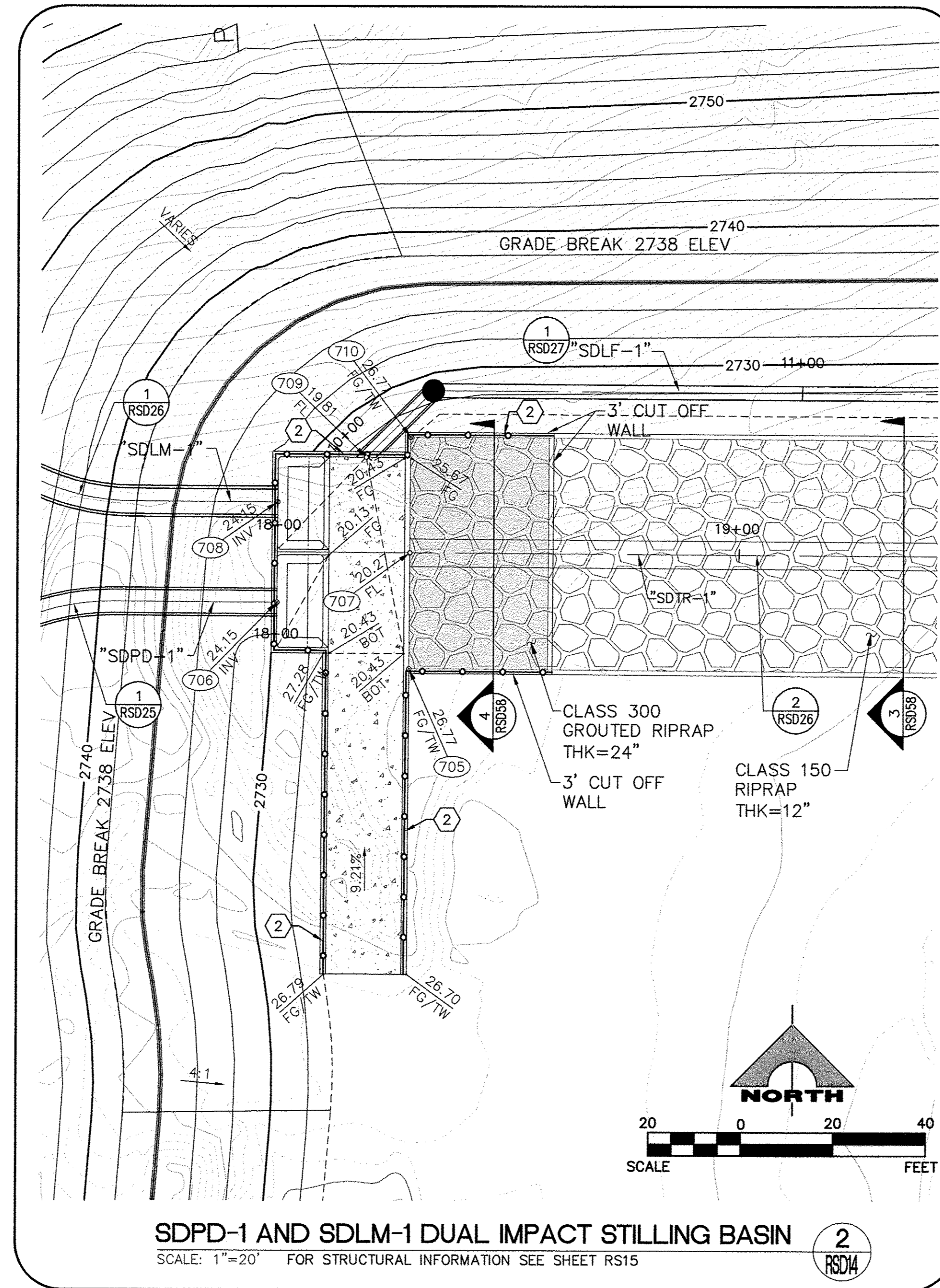
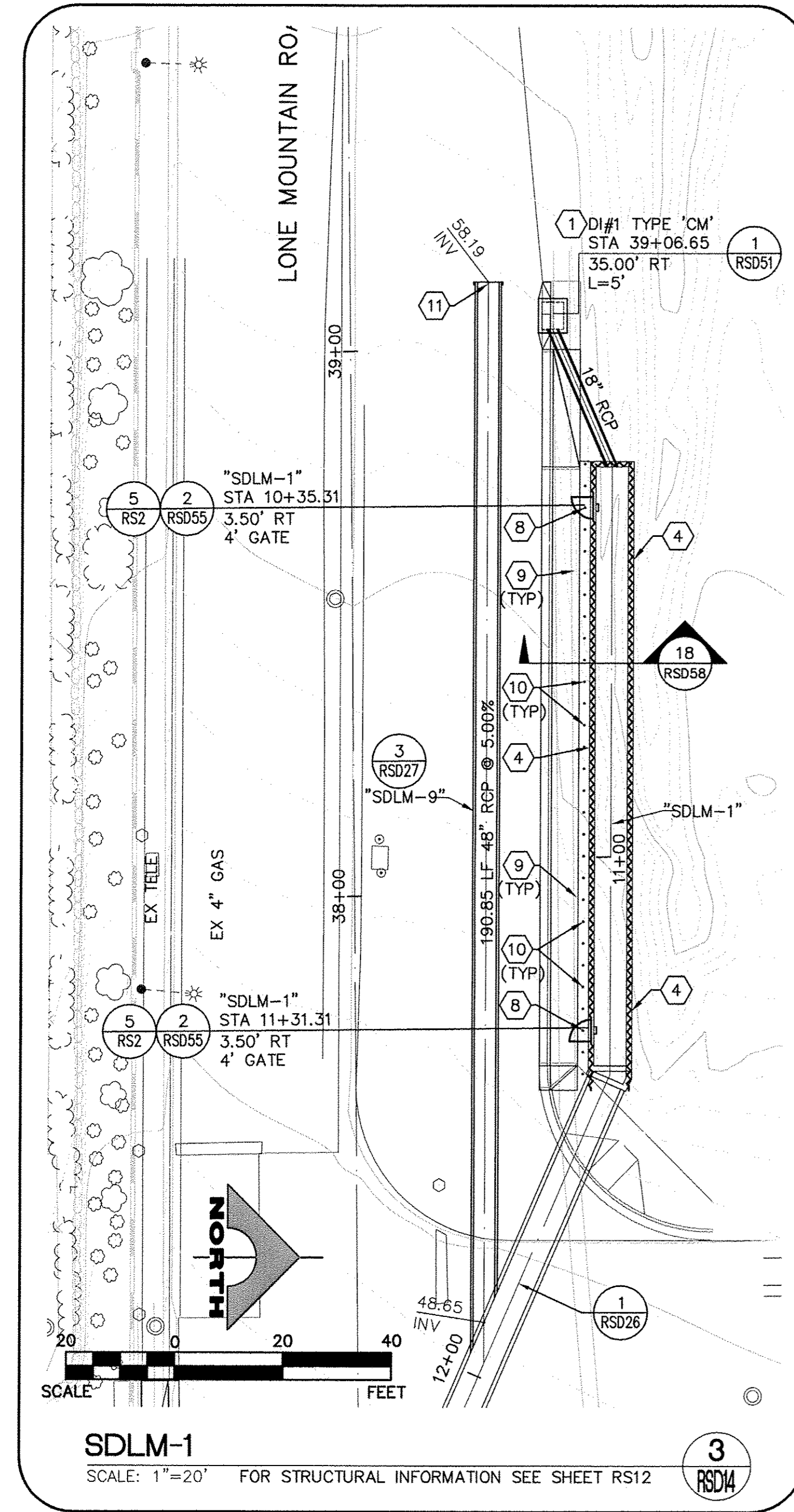
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		
CCPW PROJECT #		SHT. 517 OF 600
W.O. #:	2008-62	

BID NO. 603576-15



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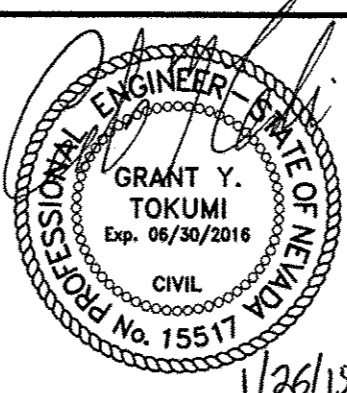
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
GRADING PLANS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

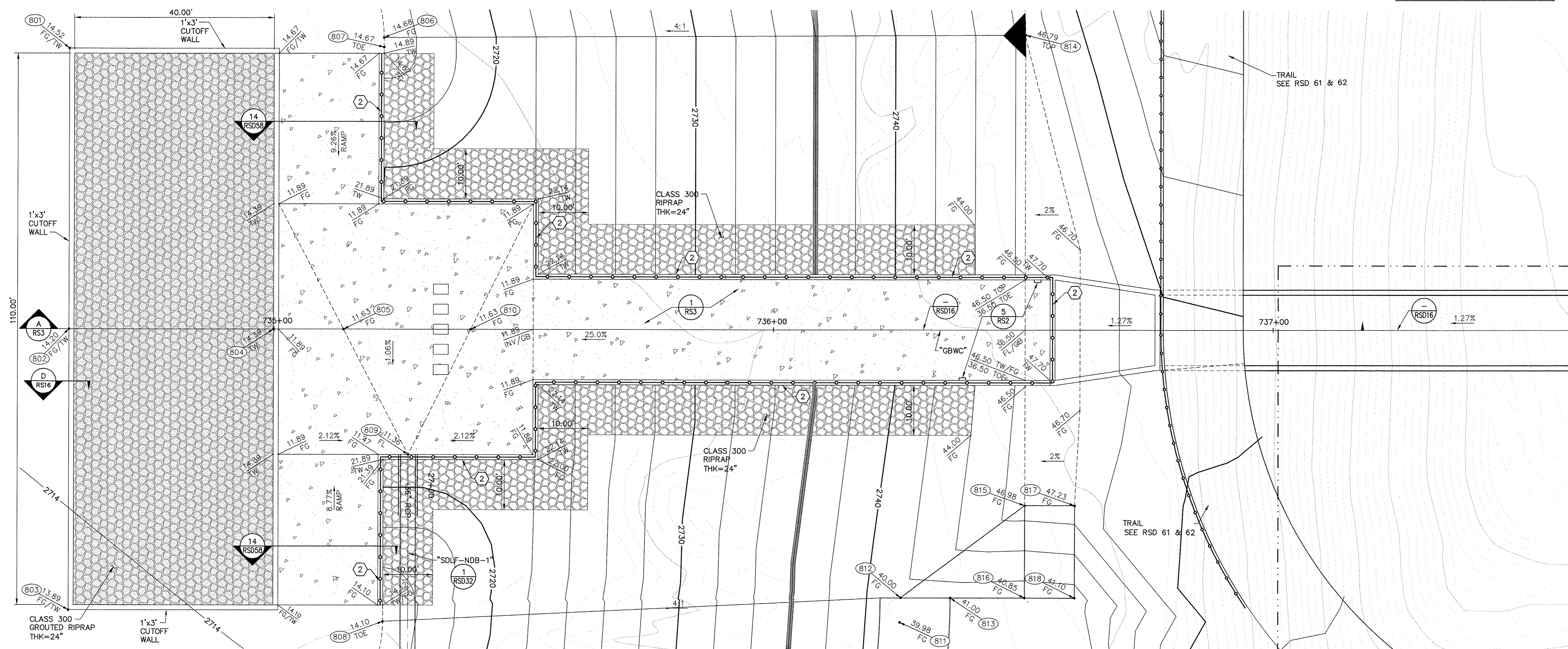


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
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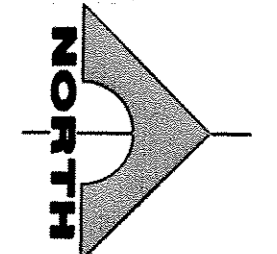
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		SHT. 518 OF 600
COPW PROJECT #	2008-62	
W.O. #:	2008-62	

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**(NORTH BASIN 2)  
GBWC INFLOW STRUCTURE AND ENERGY DISSIPATOR PLAN**  
SCALE: 1"=10' FOR STRUCTURAL INFORMATION SEE SHEET RS3



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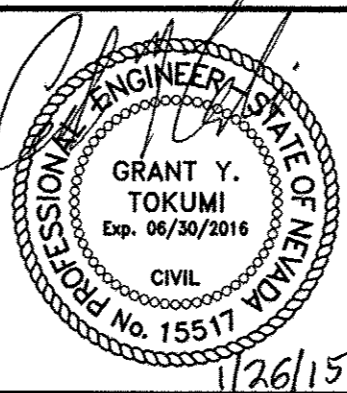
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
GRADING PLAN**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

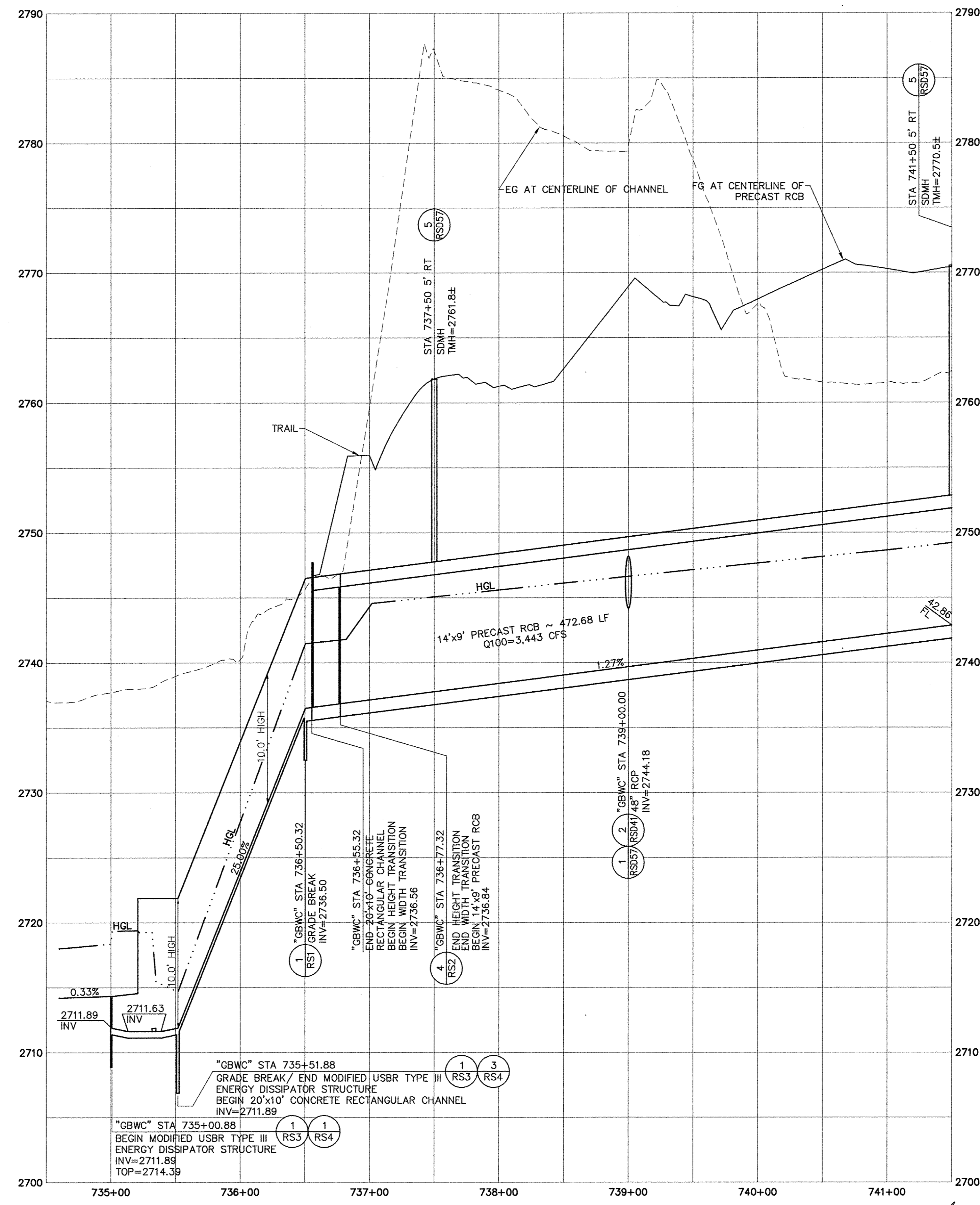


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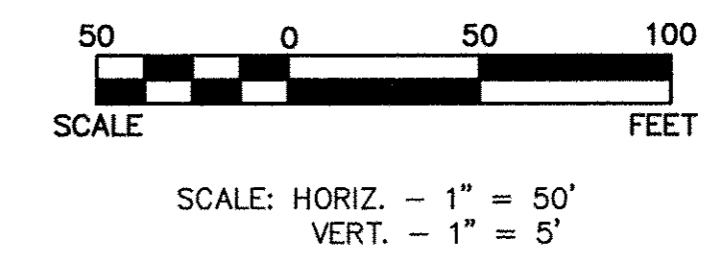
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SCALE	
HORIZ: AS SHOWN	DRAWING NO.
VERT: AS SHOWN	RSD15
FIELD BOOK	CCPW PROJECT #
W.O. #: 2008-62	SHT. 519 OF 600

BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD17



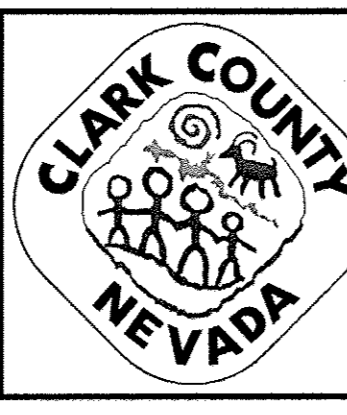
**DISCLAIMER NOTE**

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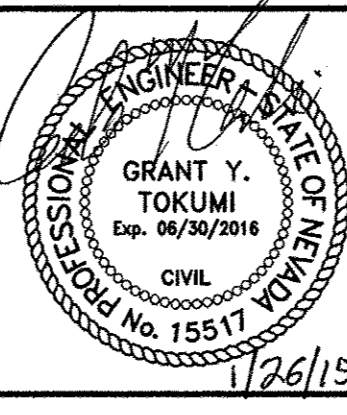
**Call before you Dig**  
Avoid hitting underground utility lines. It's costly.  
  
**1-800-227-2600**

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
  
**1-702-227-2929**

REV. NO.	DATE	DESCRIPTION	APPROVED



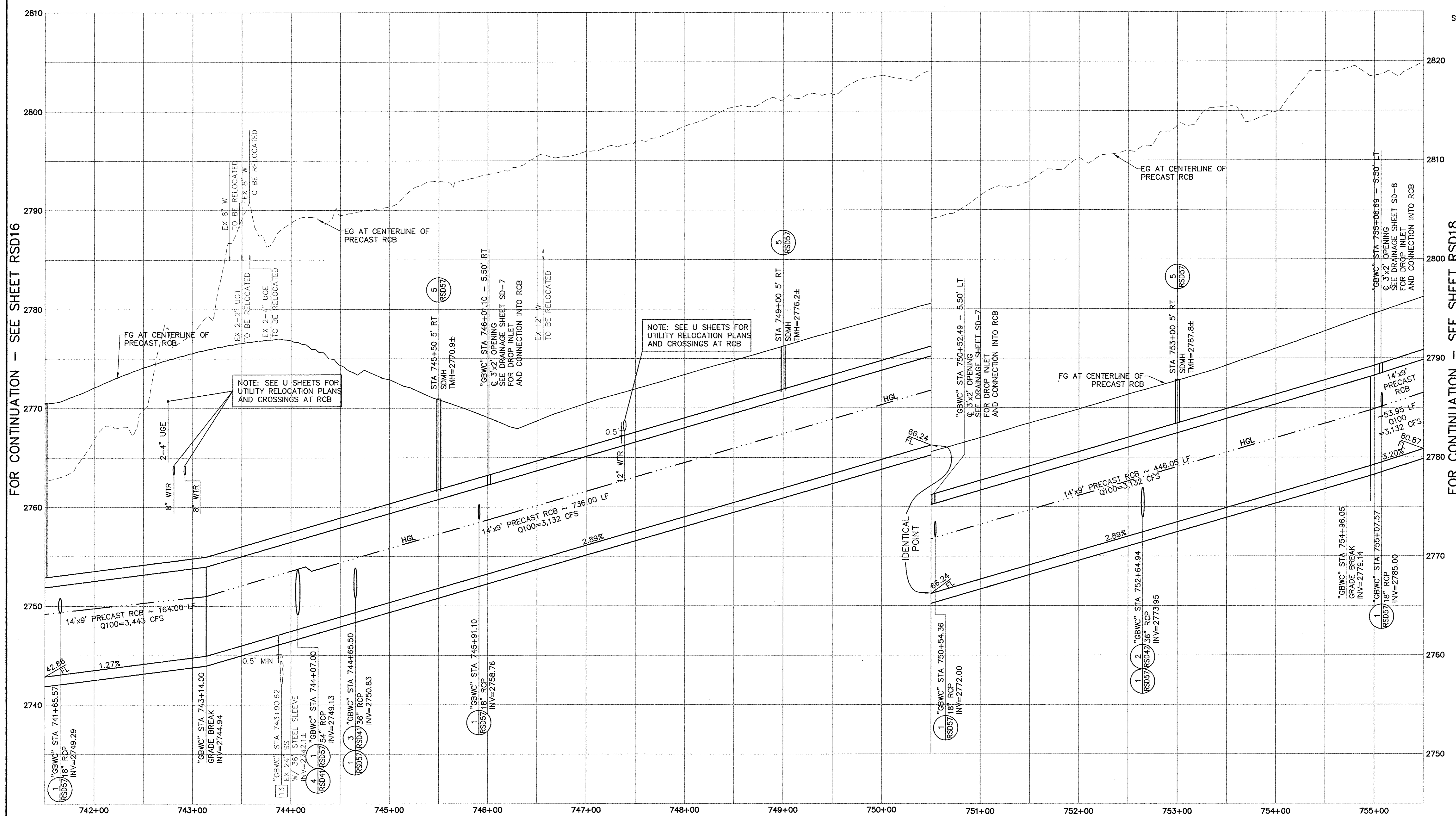
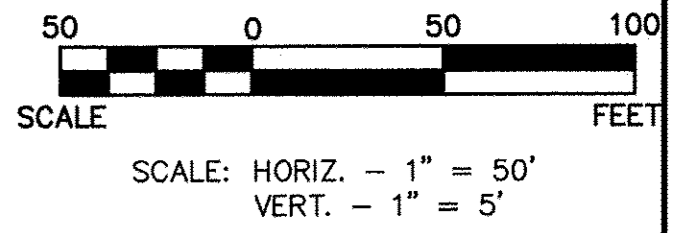
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
 STA 734+50.00 TO STA 741+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	<b>RSD16</b>
VERT:	AS SHOWN	
FIELD BOOK		CPWP PROJECT #
W.O. #:	2008-62	SHT. 520 OF 600

BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD16

FOR CONTINUATION - SEE SHEET RSD18

**DISCLAIMER NOTE**

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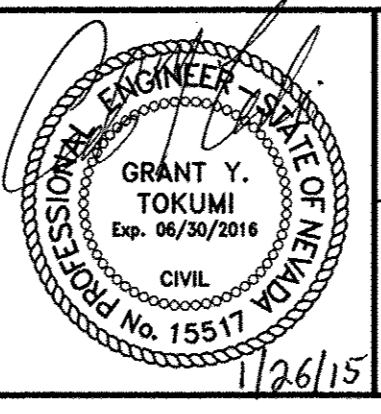
**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT LVWD PROJECT #107164      DATE \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
 STA 741+50.00 TO STA 755+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

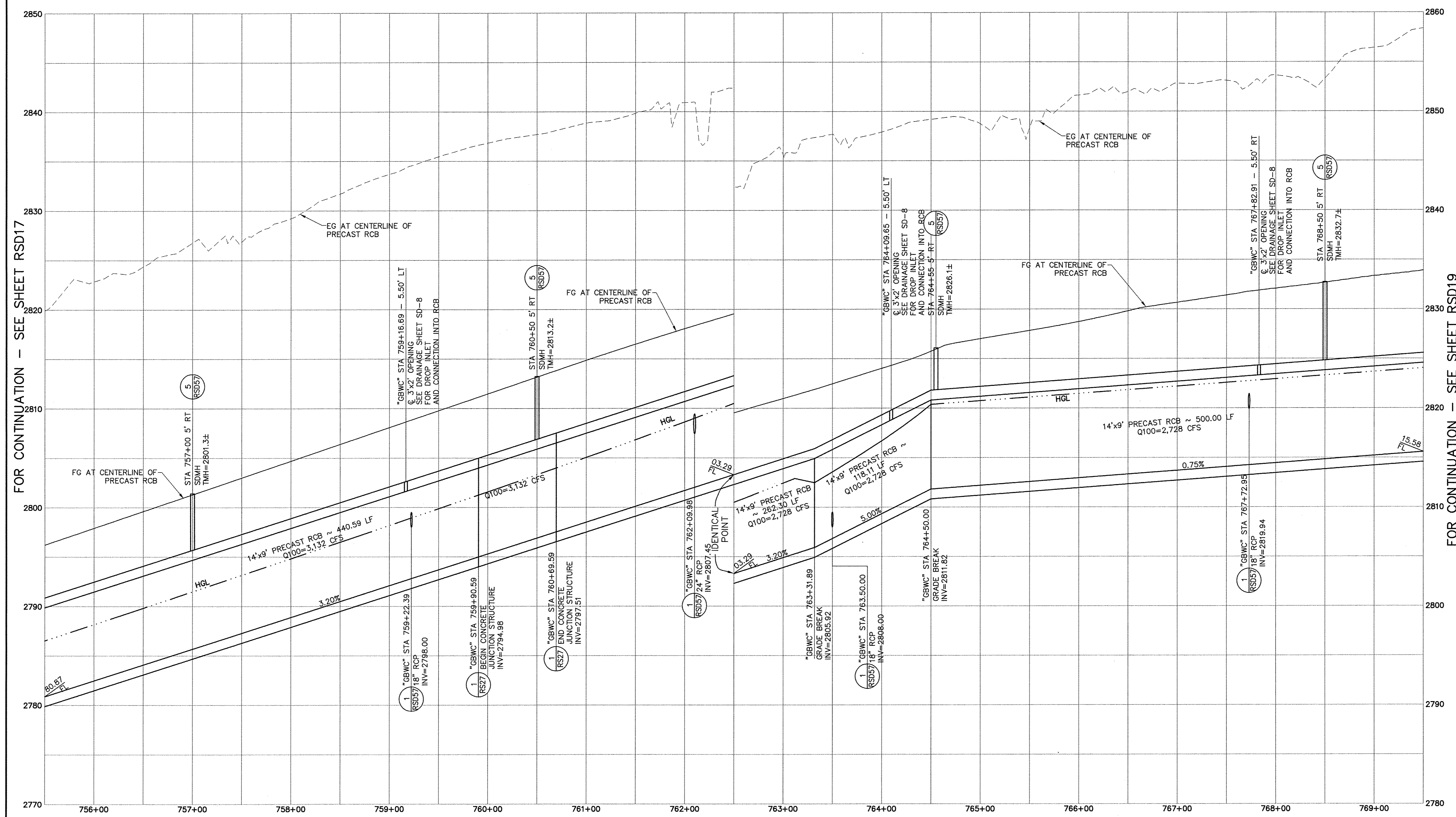
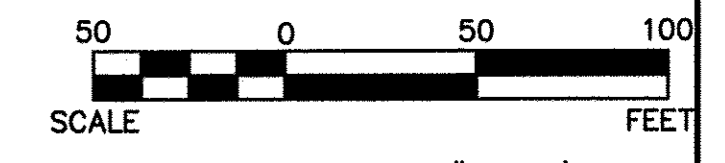


PROJECT No: 451.002.001    DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_    CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	<b>RSD17</b>
VERT:	AS SHOWN	
FIELD BOOK		SHT. 521 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15



**DISCLAIMER NOTE**

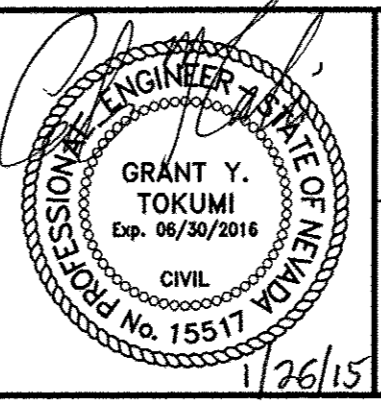
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
**STA 755+50.00 TO STA 769+50.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**

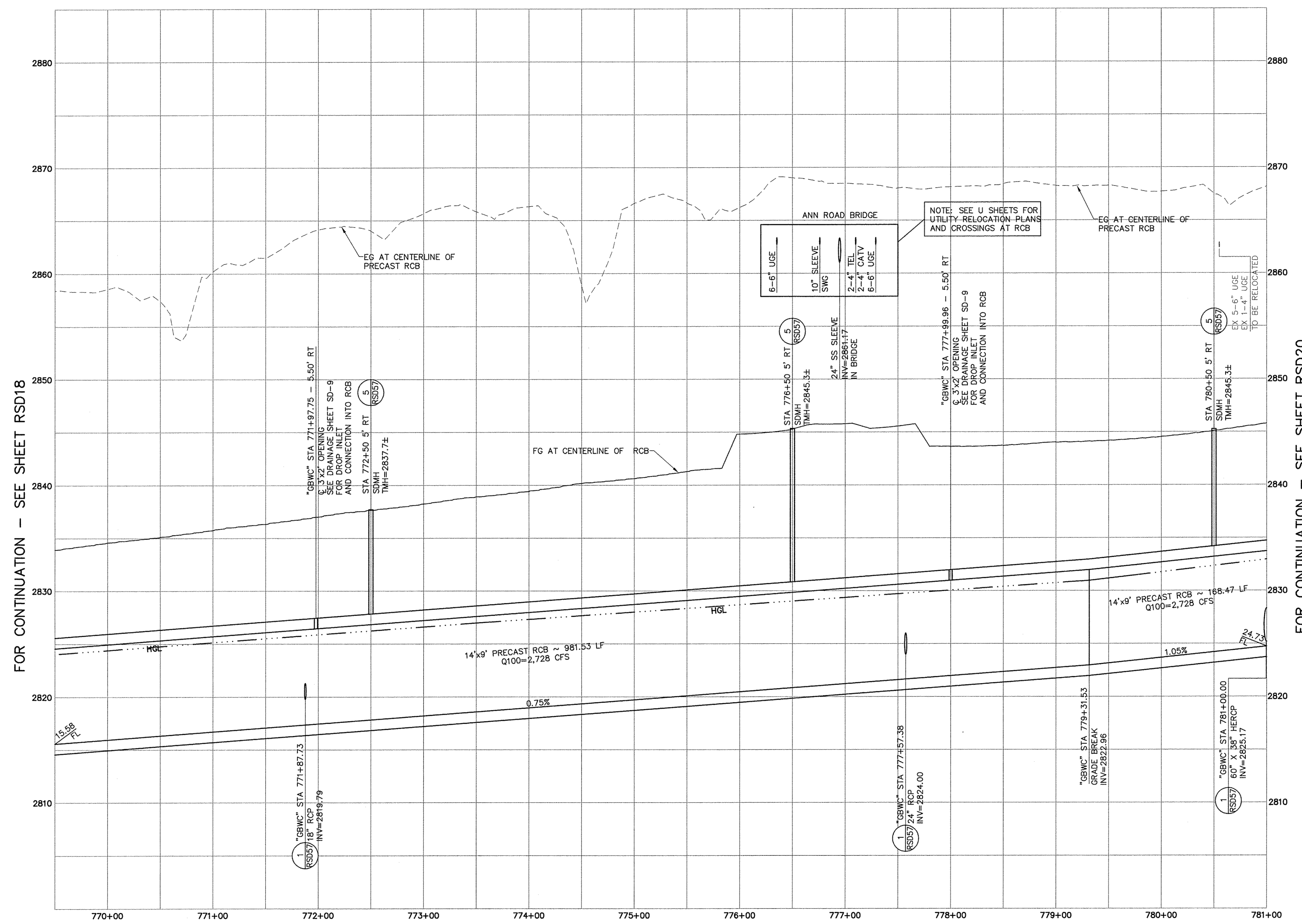
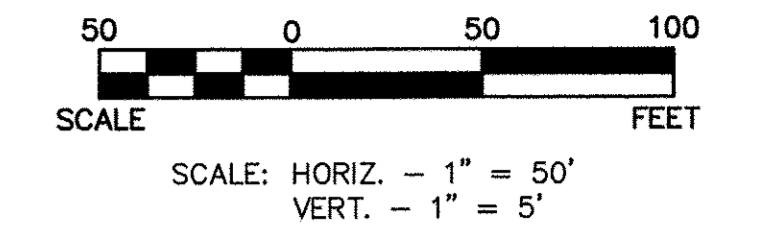


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	<b>RSD18</b>
FIELD BOOK		
CCPW PROJECT #		SHT. 522 OF 600
W.O. #:	2008-62	

BID NO. 603576-15





FOR CONTINUATION - SEE SHEET RSD18

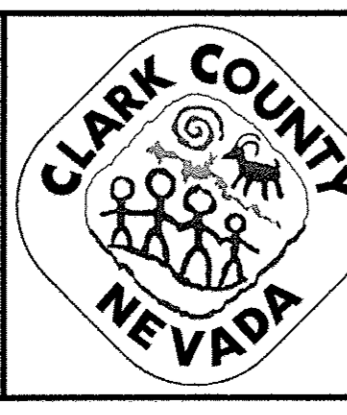
FOR CONTINUATION - SEE SHEET RSD20

**DISCLAIMER NOTE**

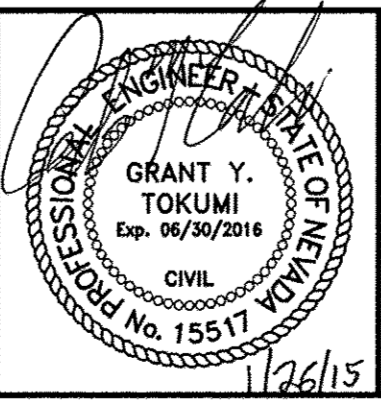
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REV. NO.	DATE	DESCRIPTION	APPROVED



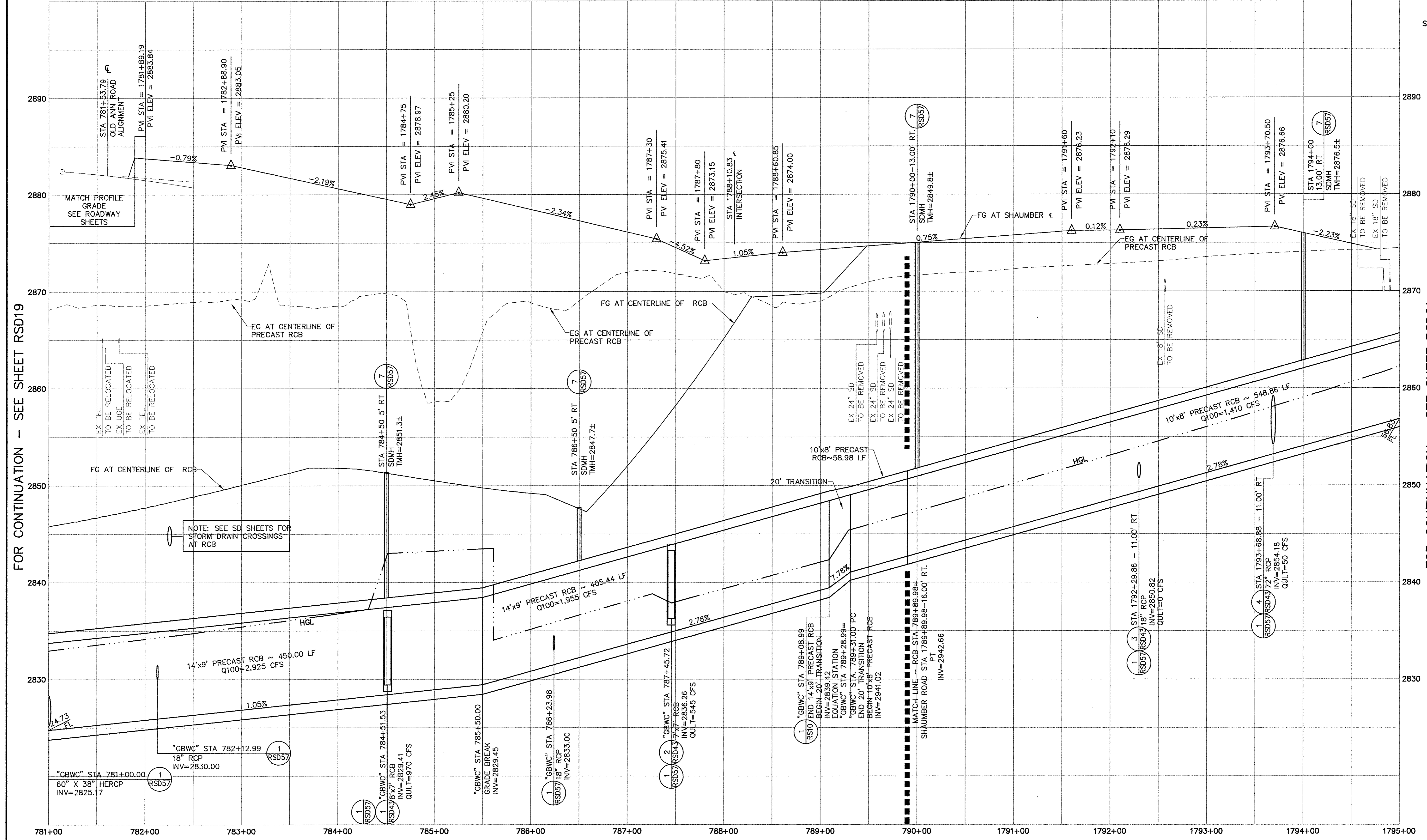
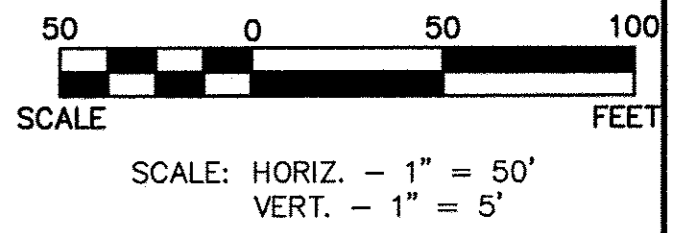
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
**STA 769+50.00 TO STA 781+00.00**  
**CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS**



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.	
HORIZ:	AS SHOWN	RSD19	
VERT:	AS SHOWN		
FIELD BOOK			
CCPW PROJECT #			
W.O. #:	2008-62	SHT. 523	OF 600

BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD19

FOR CONTINUATION - SEE SHEET RSD21

NOTE: SEE SD SHEETS FOR STORM DRAIN CROSSINGS AT RCB

**DISCLAIMER NOTE**

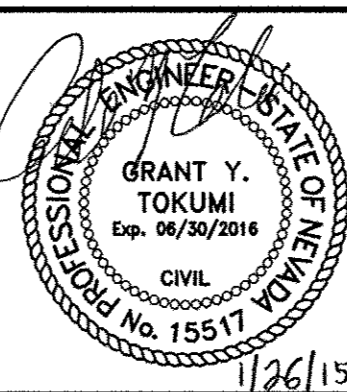
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REV. NO.	DATE	DESCRIPTION	APPROVED



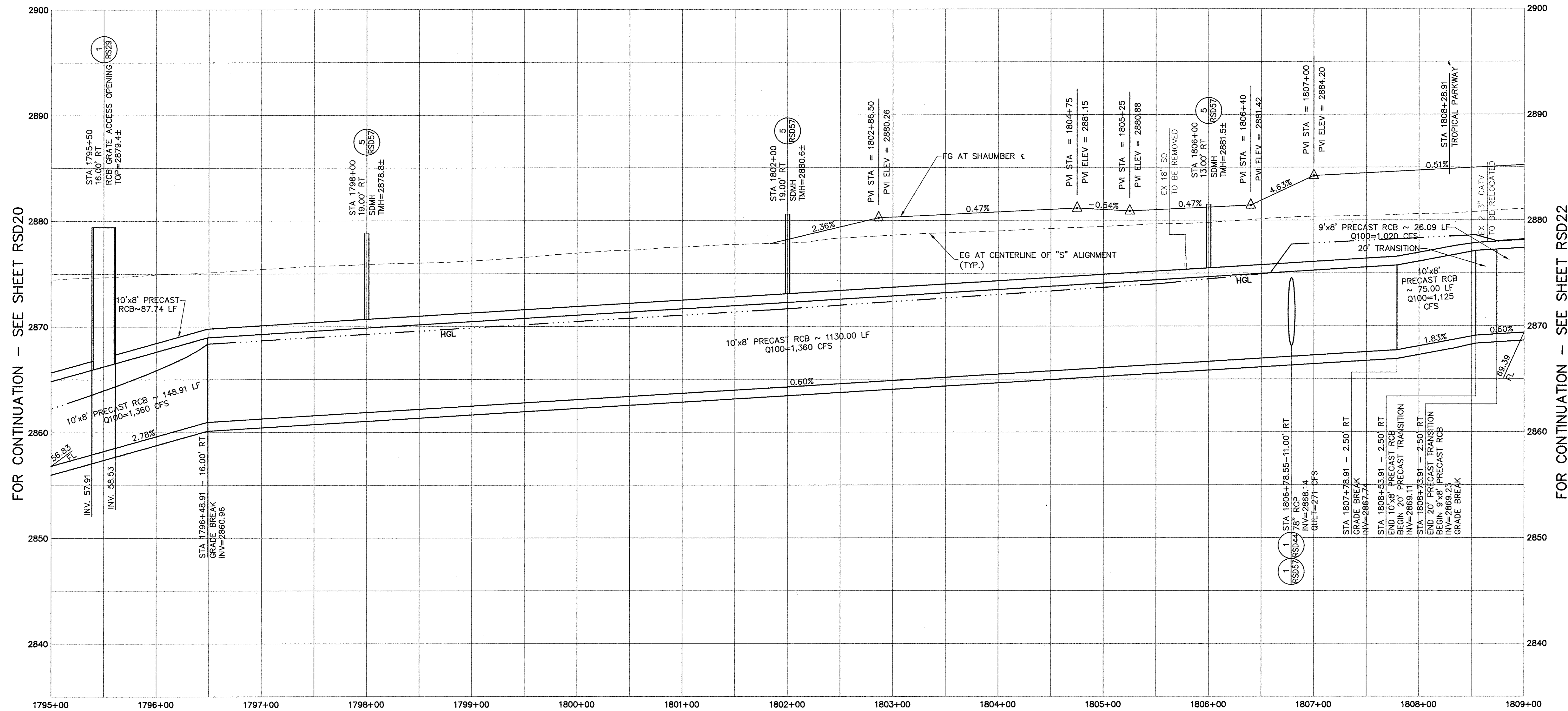
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
 STA 781+00.00 TO STA 1795+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
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 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

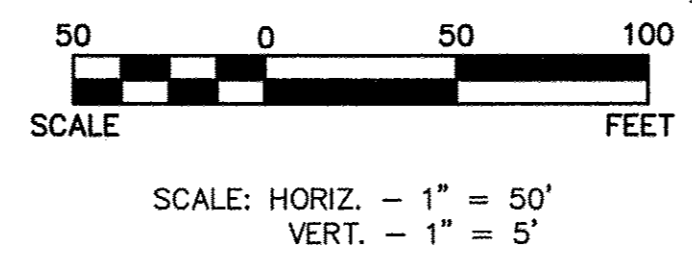
SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD20
VERT:	AS SHOWN	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 524 OF 600

BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD20

FOR CONTINUATION - SEE SHEET RSD22



**DISCLAIMER NOTE**

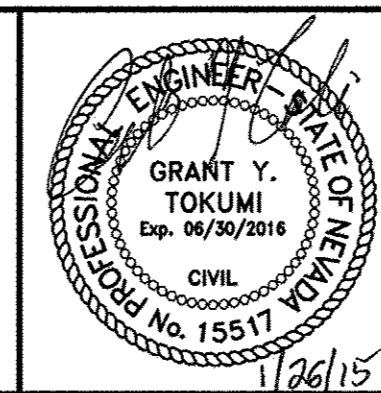
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REV. NO.	DATE	DESCRIPTION	APPROVED



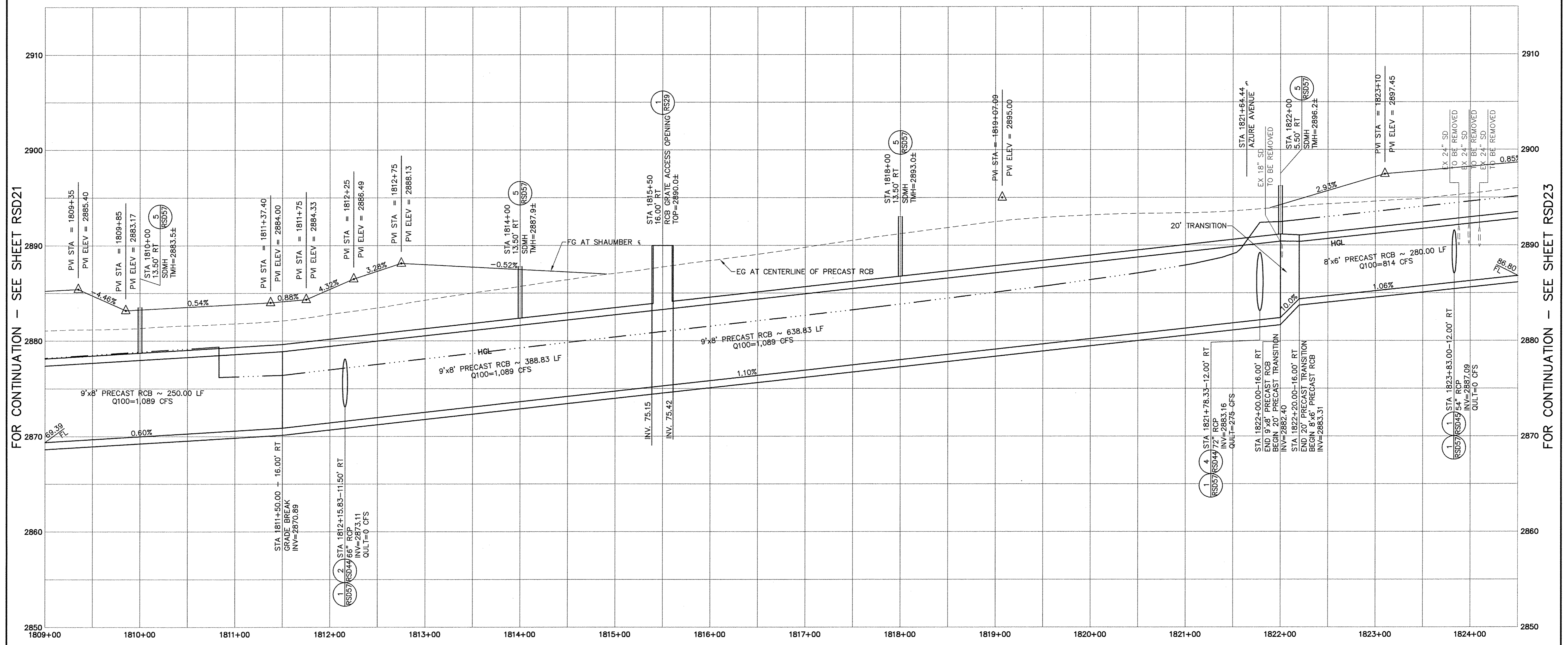
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
 STA 1795+00.00 TO STA 1809+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

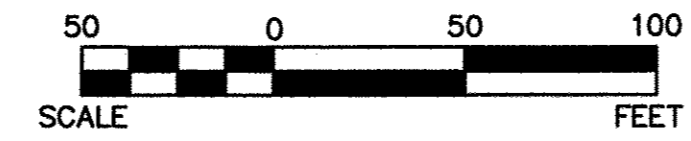
SCALE	
HORIZ:	AS SHOWN
VERT:	AS SHOWN
FIELD BOOK	
COPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.  
**RSD21**  
 SHT. 525 OF 600



FOR CONTINUATION - SEE SHEET RSD21

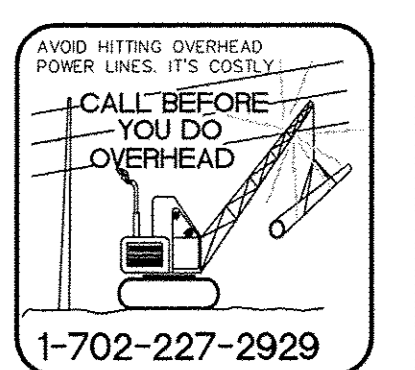
FOR CONTINUATION - SEE SHEET RSD23



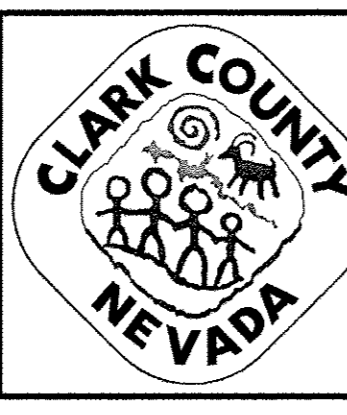
SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

**DISCLAIMER NOTE**

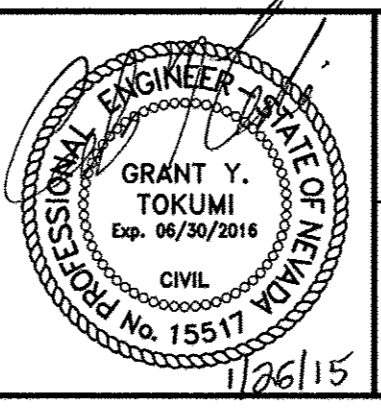
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 "GBWC" PROFILE  
 STA 1809+00.00 TO STA 1824+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

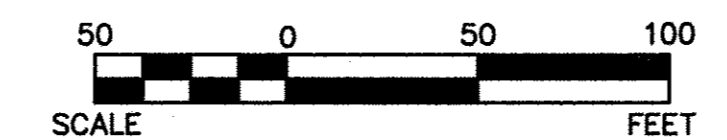
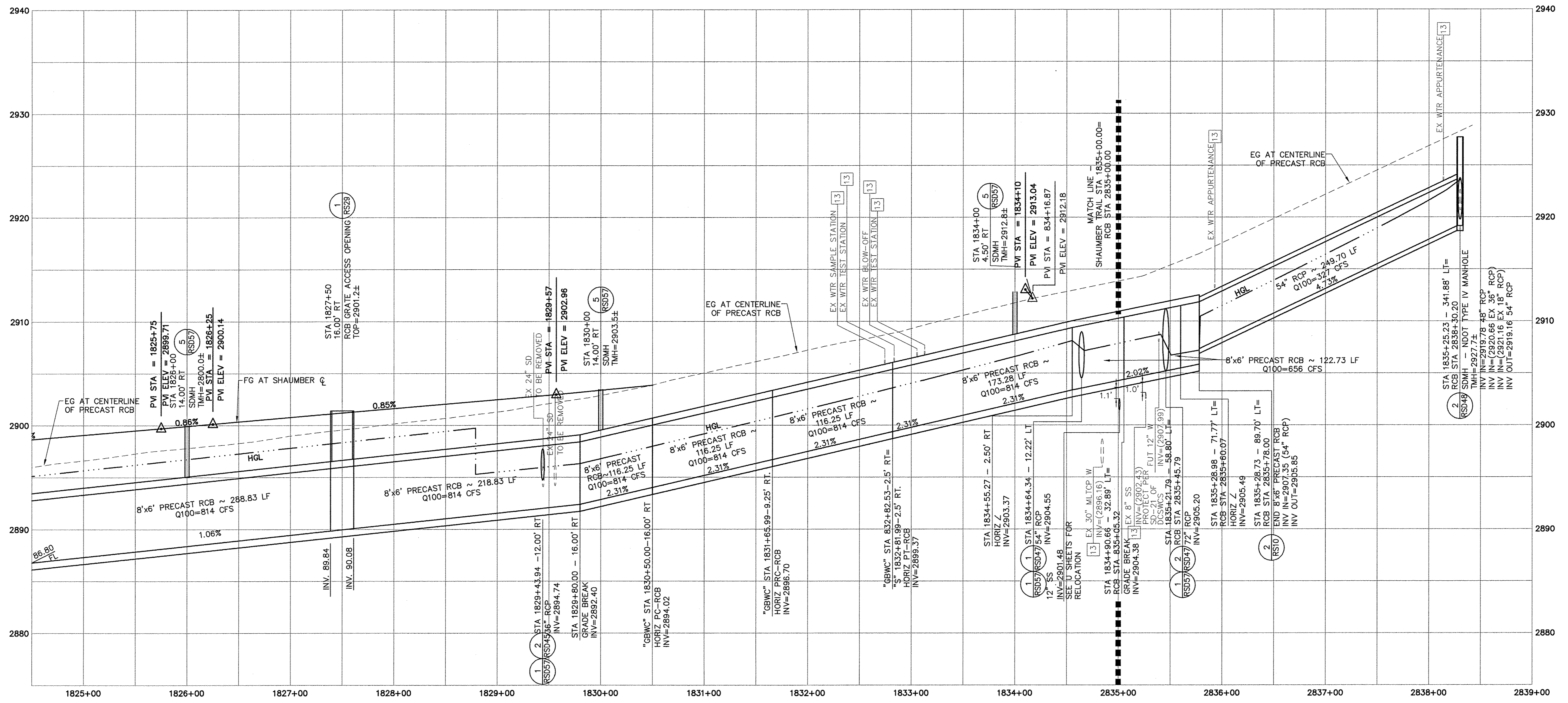


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD22
VERT:	AS SHOWN	
FIELD BOOK		SHT. 526 OF 600
W.O. #: 2008-62		

BID NO. 603576-15

FOR CONTINUATION - SEE SHEET RSD22



SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

**APPROVED FOR CONSTRUCTION**

LAS VEGAS VALLEY WATER DISTRICT LVVWD PROJECT #107164 \_\_\_\_\_ DATE \_\_\_\_\_

**DISCLAIMER NOTE**

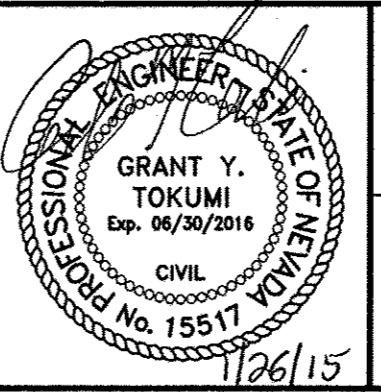
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REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**"GBWC" PROFILE**  
 STA 1824+50.00 TO STA 2839+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

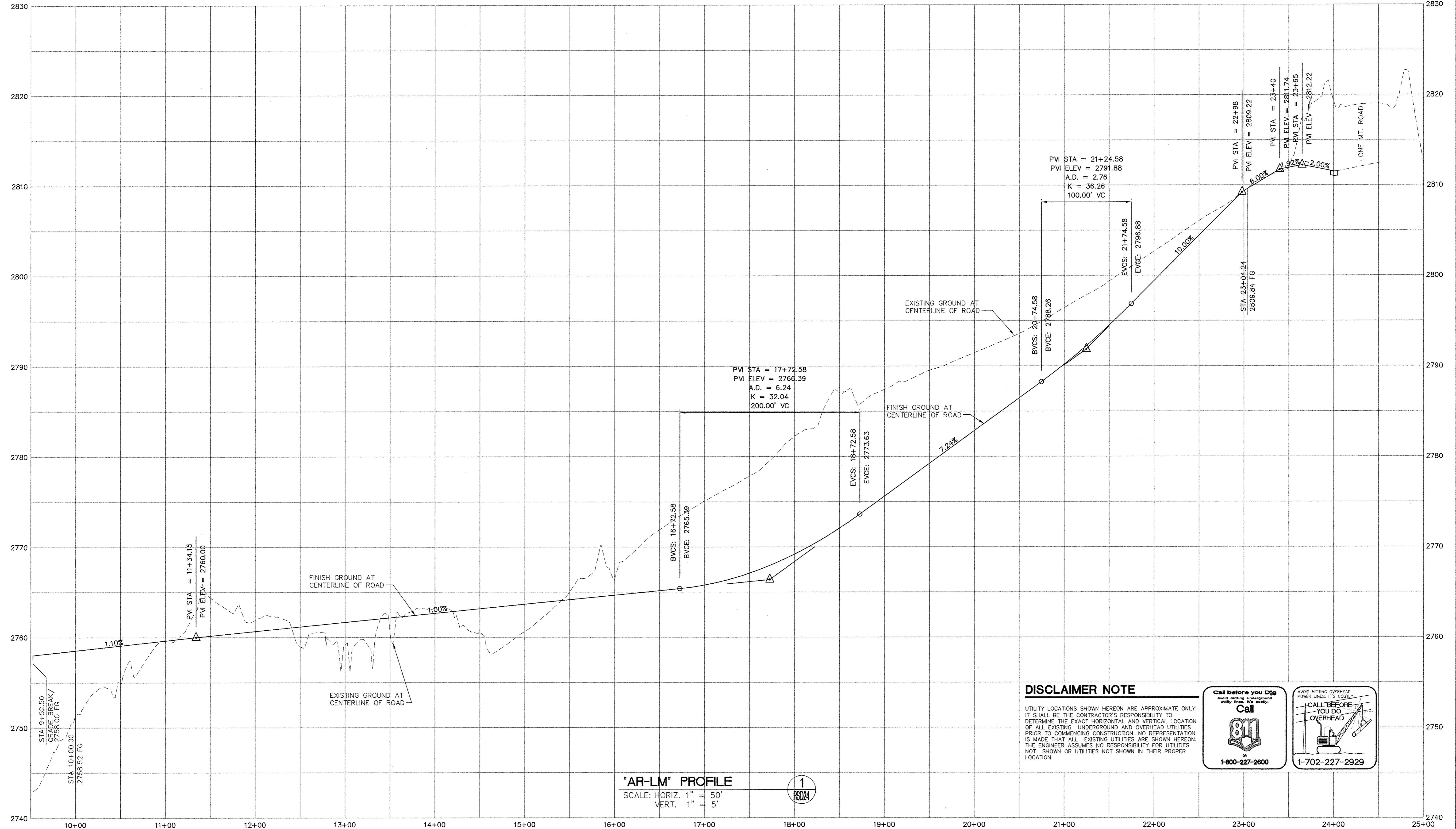


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	
HORIZ:	AS SHOWN
VERT:	AS SHOWN
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.  
RSD23  
 SHT. 527 OF 600

BID NO. 603576-15



"AR-LM" PROFILE  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'



**DISCLAIMER NOTE**  
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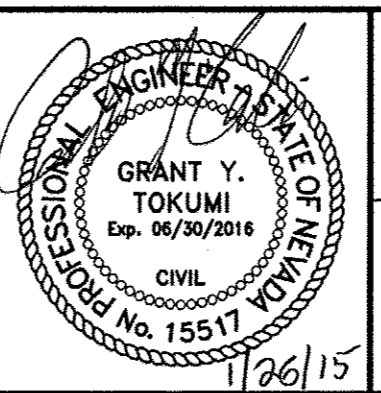
Call before you Dig  
Avoid hitting underground utility lines. It's costly.  
**Call**  
  
 1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!  
**CALL BEFORE YOU DO OVERHEAD**  
  
 1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED

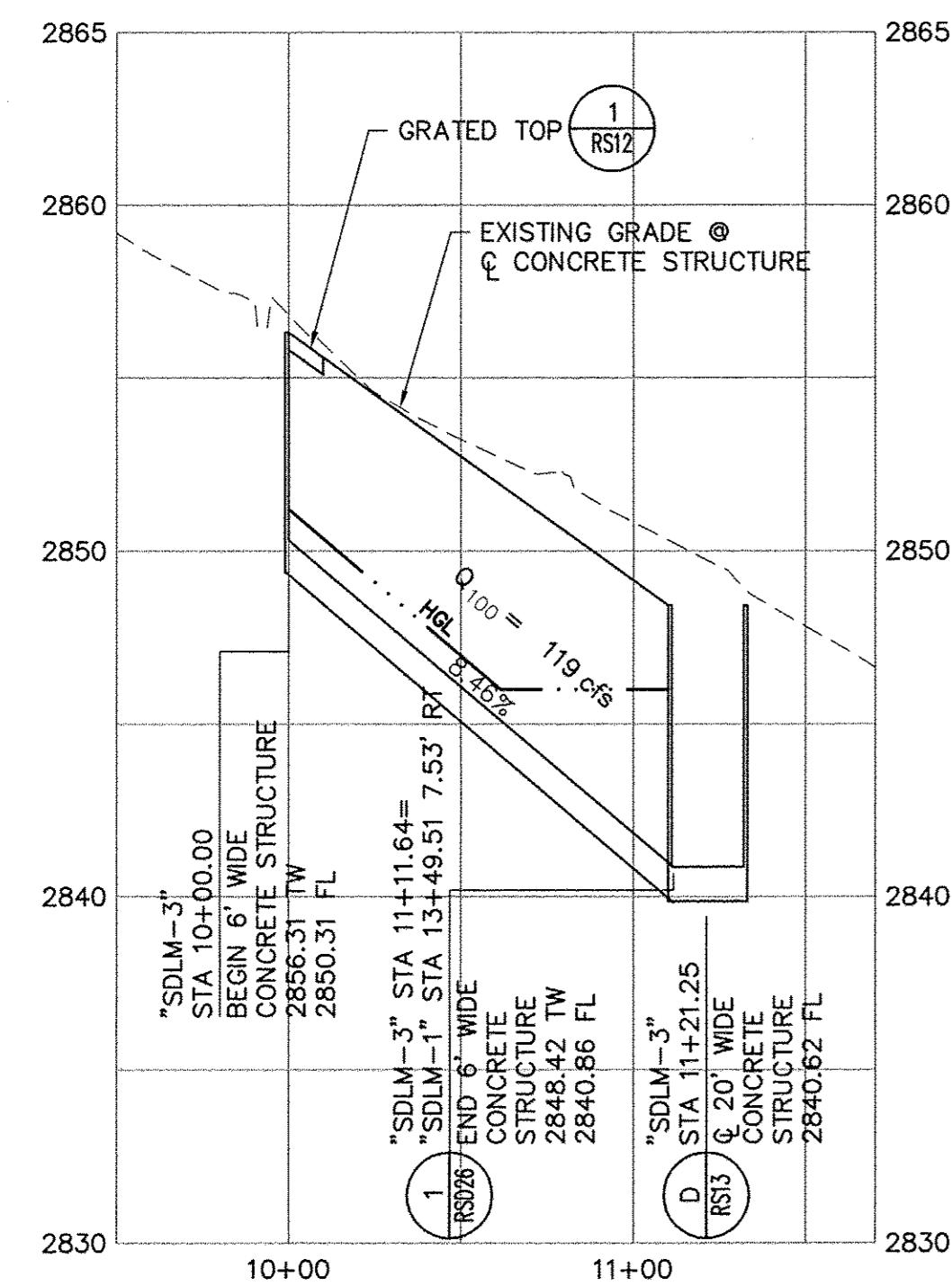


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILE  
 ACCESS ROAD - SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

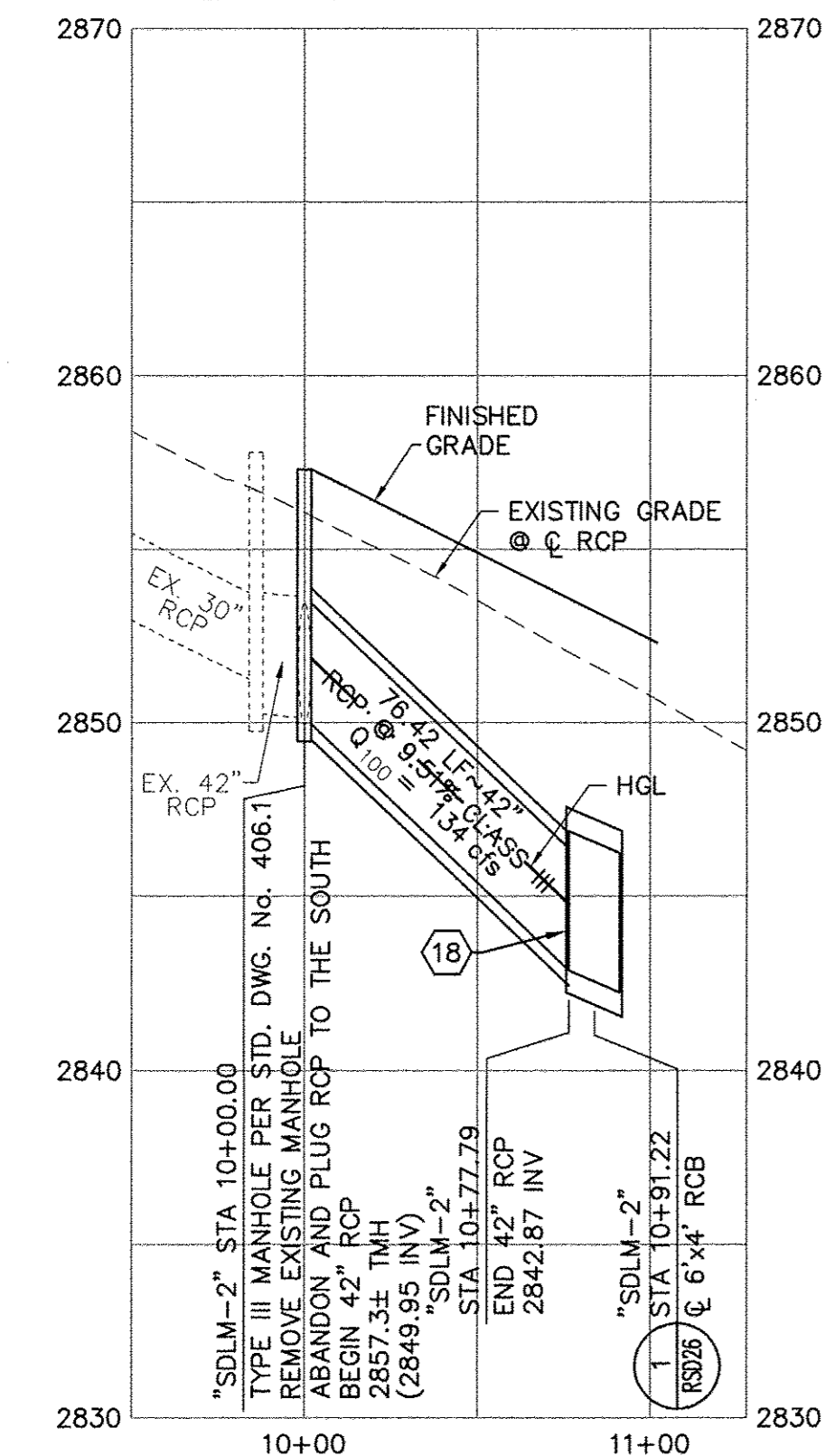
SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	<b>RSD24</b>
FIELD BOOK		
COPW PROJECT #		
W.O. #:	2008-62	SHT. 528 OF 600



**\*SDLM-3\* PROFILE**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

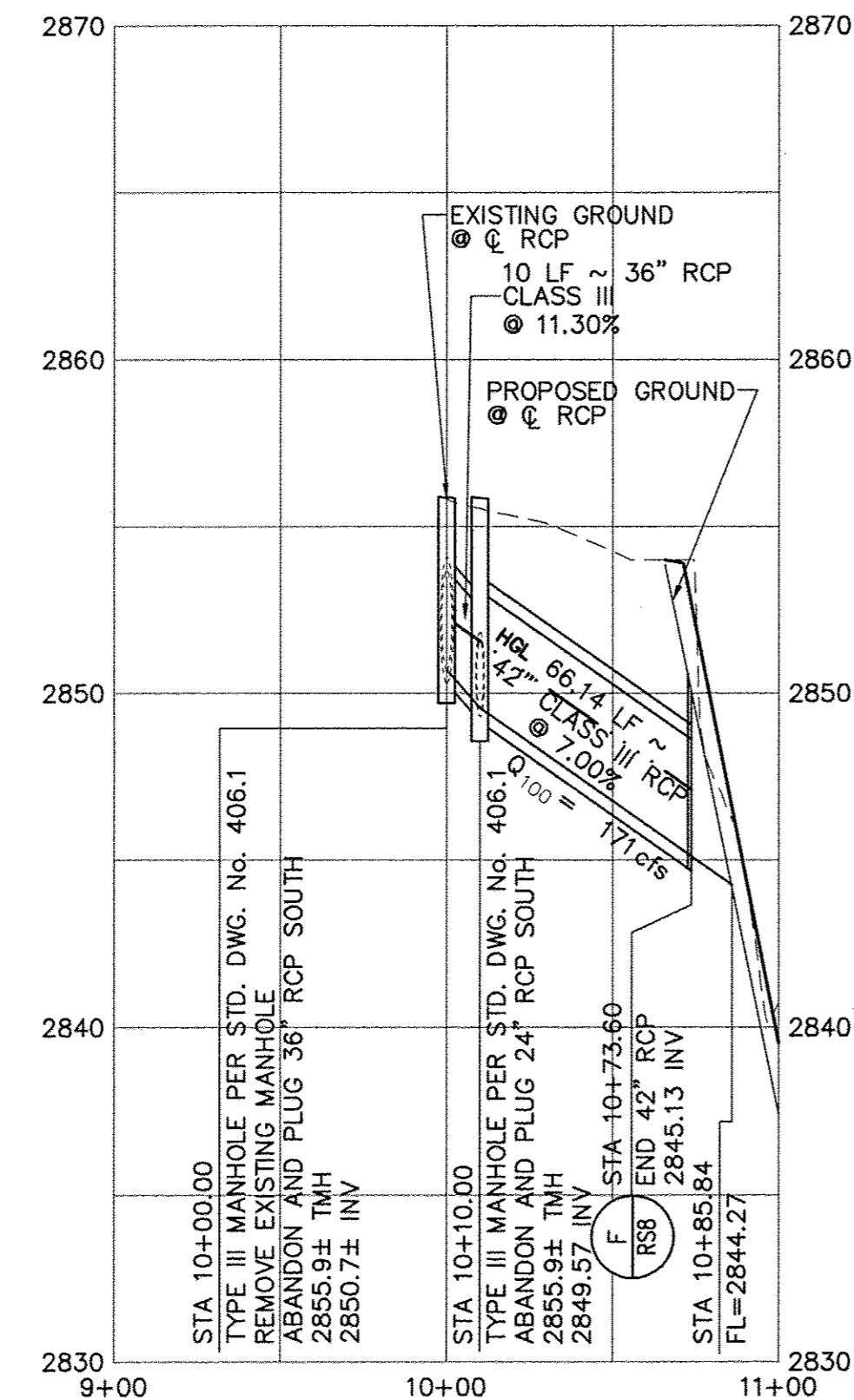
4  
RSD25



**\*SDLM-2\* PROFILE**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

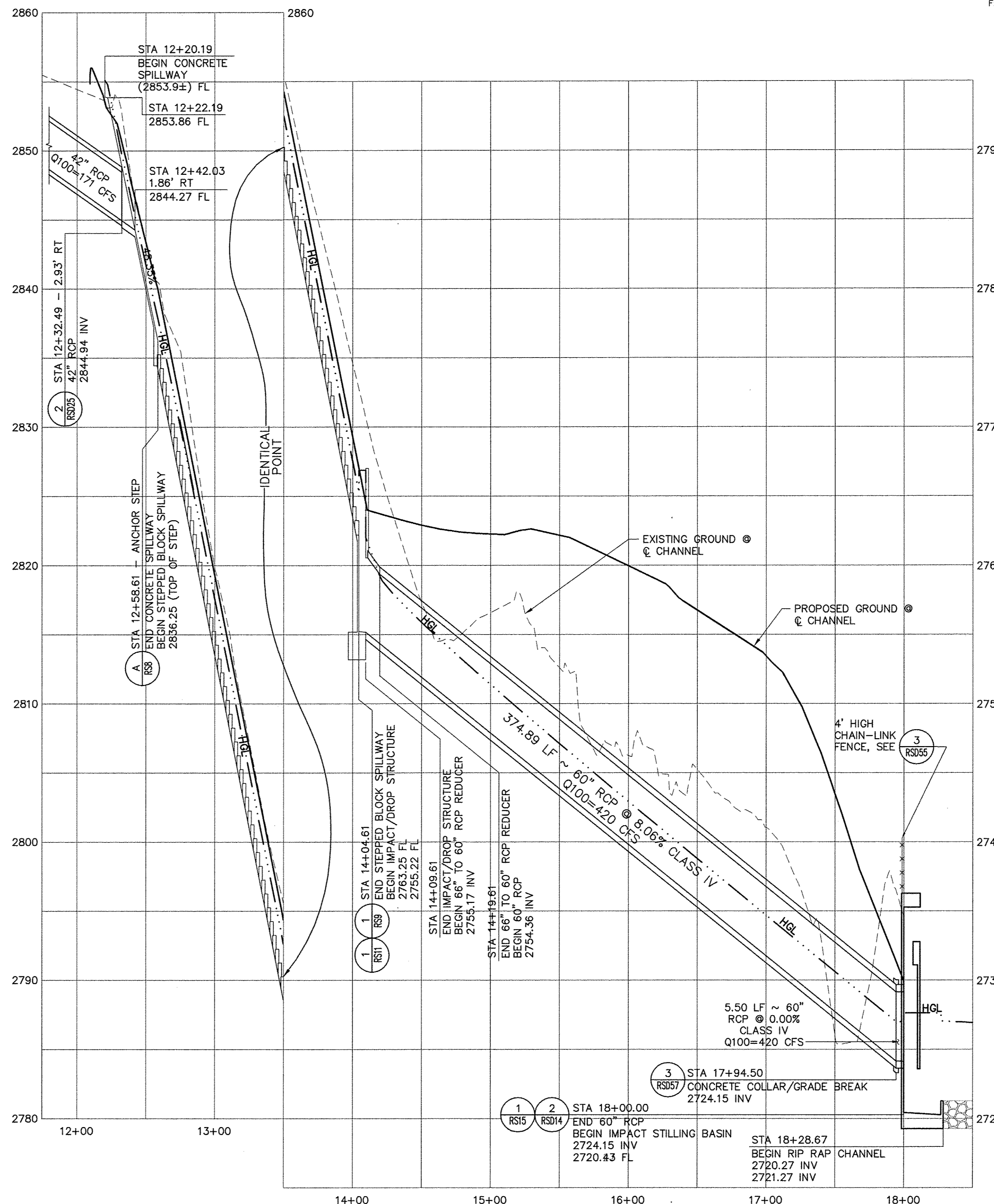
3  
RSD25



**\*SDPD-2\* PROFILE**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

2  
RSD25



**\*SDPD-1\* PROFILE**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

1  
RSD25

**DISCLAIMER NOTE**

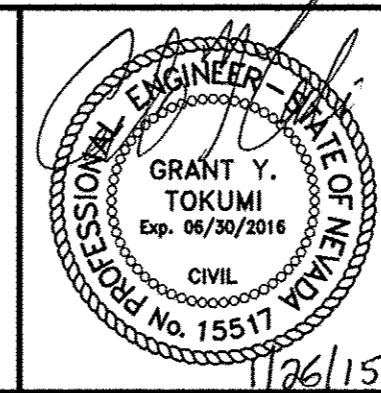
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REV. NO.	DATE	DESCRIPTION	APPROVED



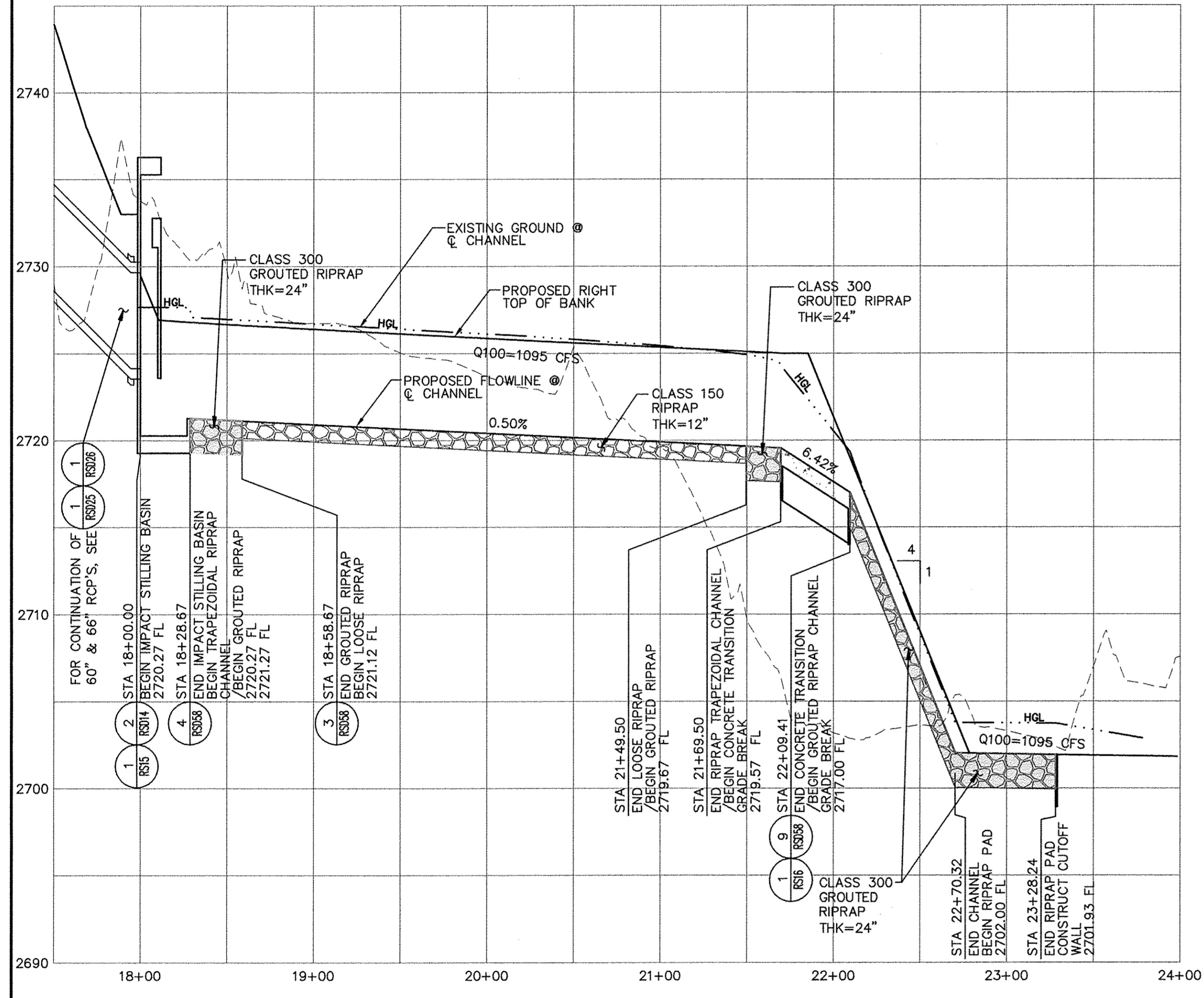
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**PROFILES**  
**SOUTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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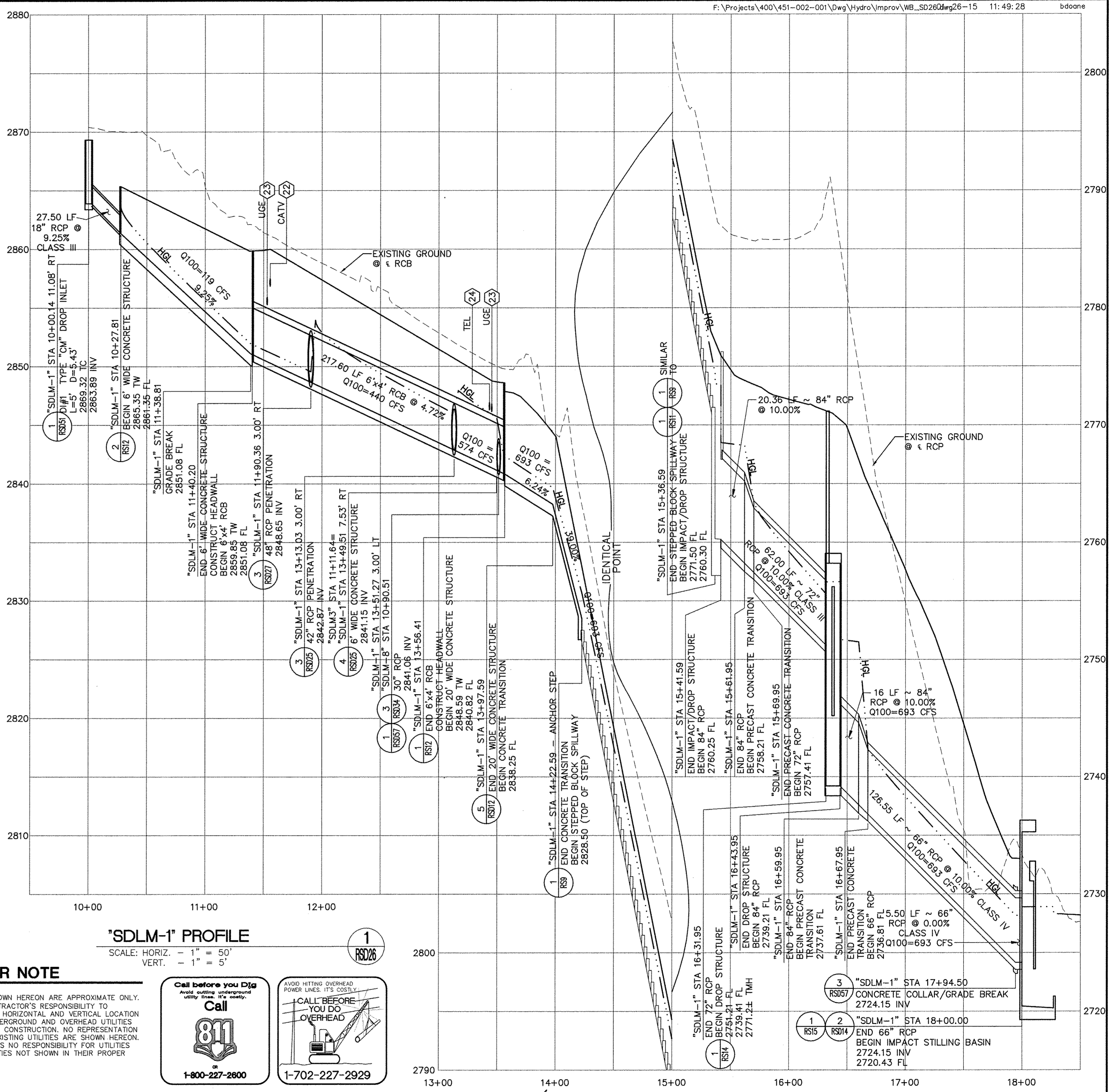
SCALE  
 HORIZ: AS SHOWN  
 VERT: AS SHOWN  
 FIELD BOOK  
 CCPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD25**  
 SHT. 529 OF 600



**"SDTR-1" PROFILE**  
SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

2  
RSD26



**"SDLM-1" PROFILE**  
SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

1  
RSD26

**DISCLAIMER NOTE**

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REV. NO.	DATE	DESCRIPTION	APPROVED



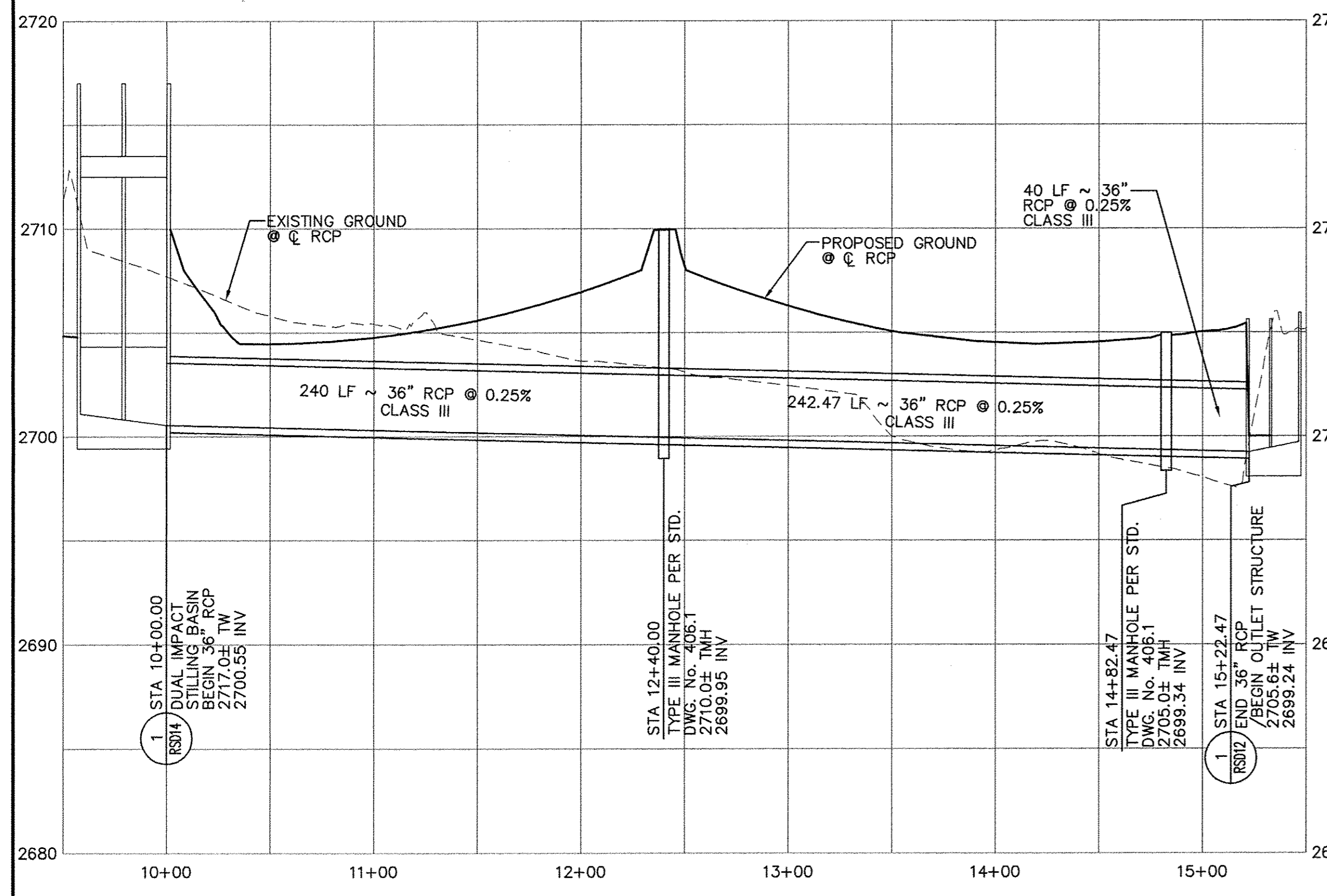
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROFILES  
SOUTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



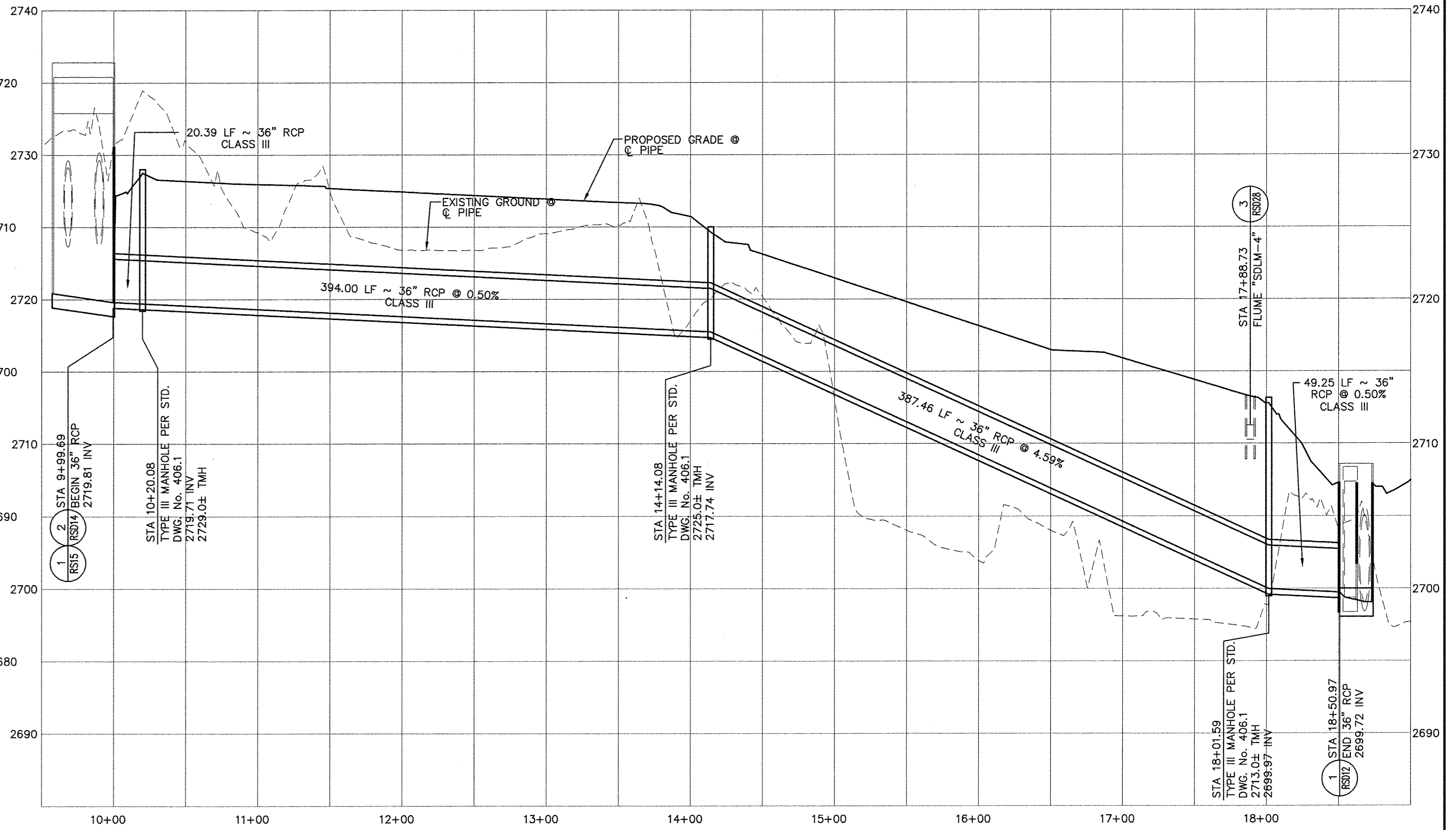
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		SHT. 530 OF 600
COPW PROJECT #		
W.O. #:		2008-62

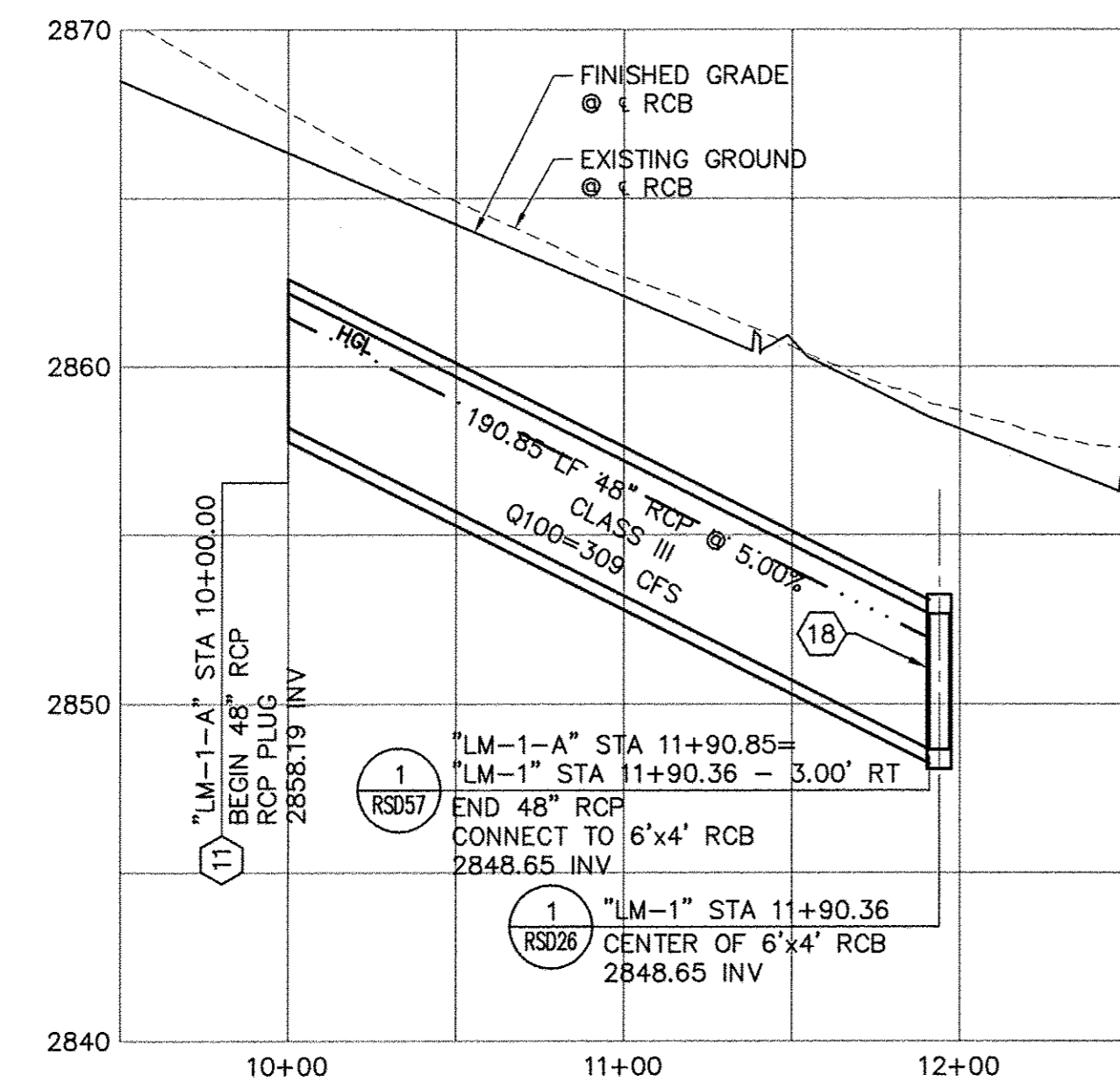




**"SDLF-2" PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'



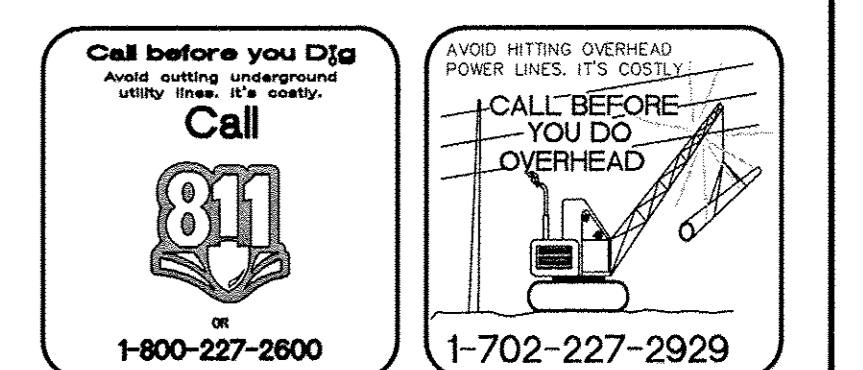
**"SDLF-1" PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'



**"SDLM-9" PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'

**DISCLAIMER NOTE**

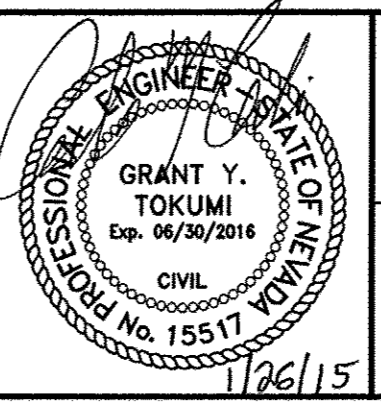
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



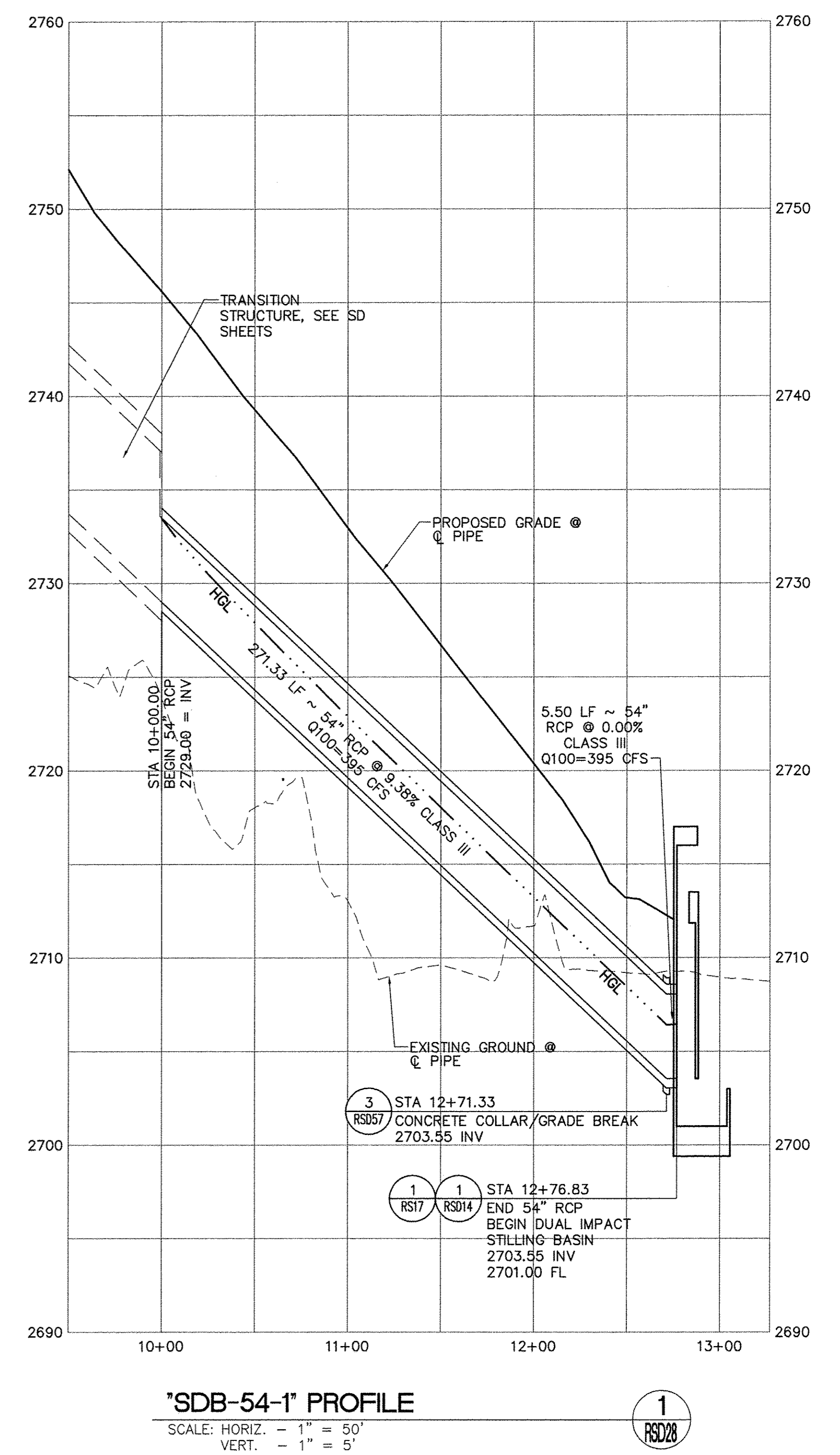
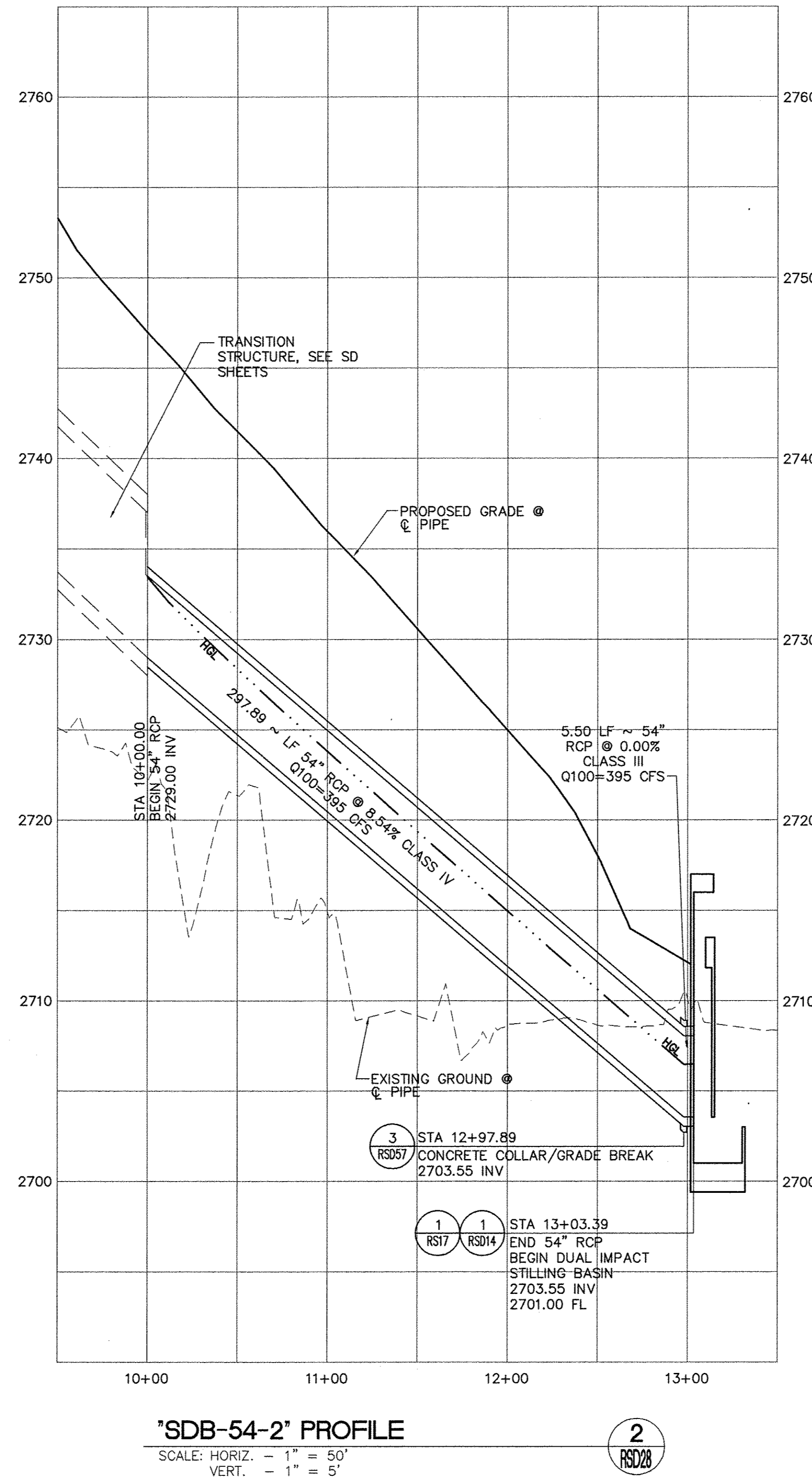
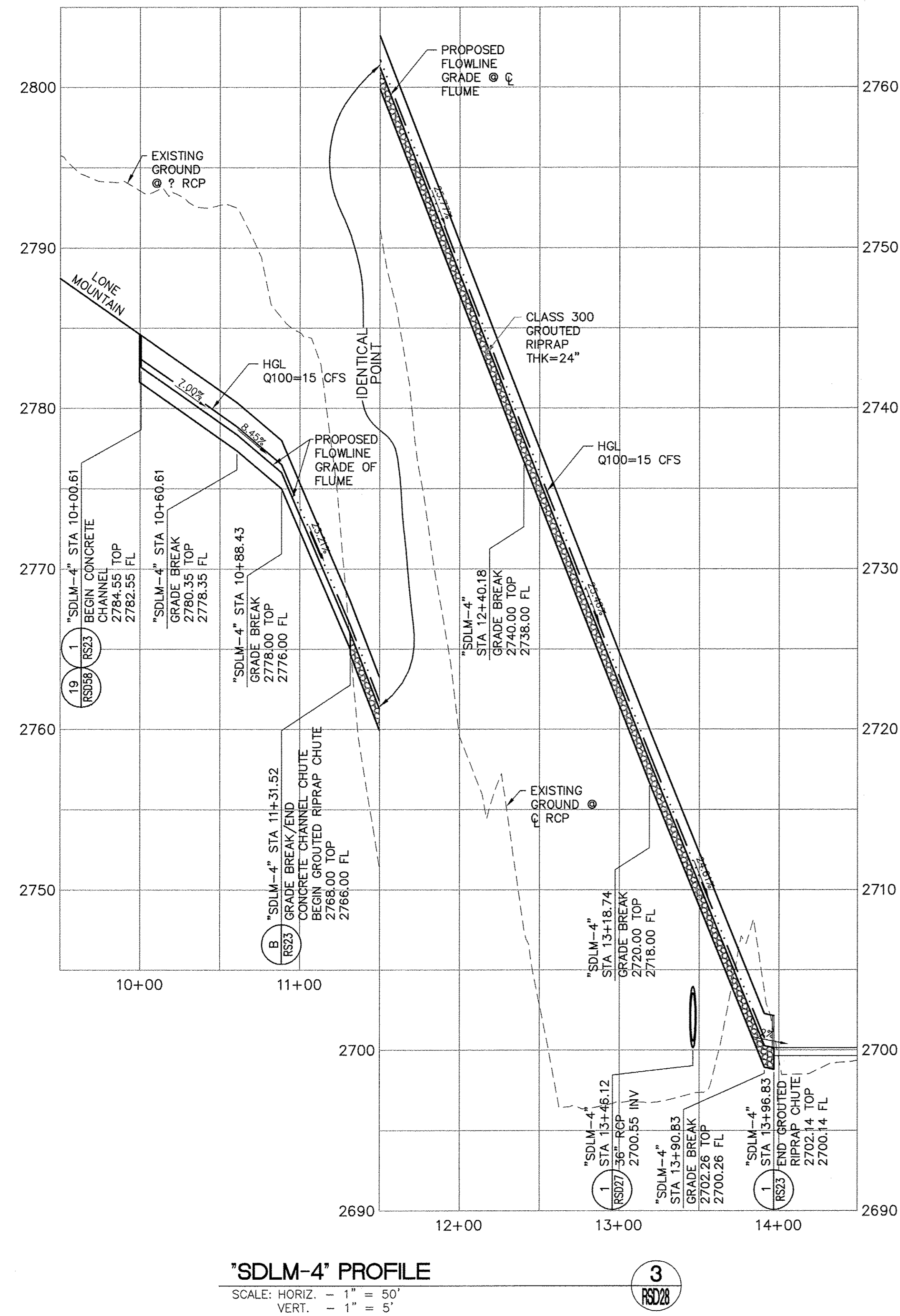
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD27
VERT:	AS SHOWN	
FIELD BOOK		COPW PROJECT #
W.O. #:	2008-62	SHT. 531 OF 600

BID NO. 603576-15



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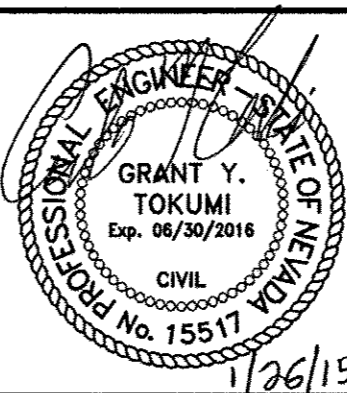
**Call before you Dig**  
 Avoid hitting underground utility lines. It's costly. Call 811.

**Call before you Dig**  
 Avoid hitting overhead power lines. It's costly. Call 1-702-227-2929.

REV. NO.	DATE	DESCRIPTION	APPROVED



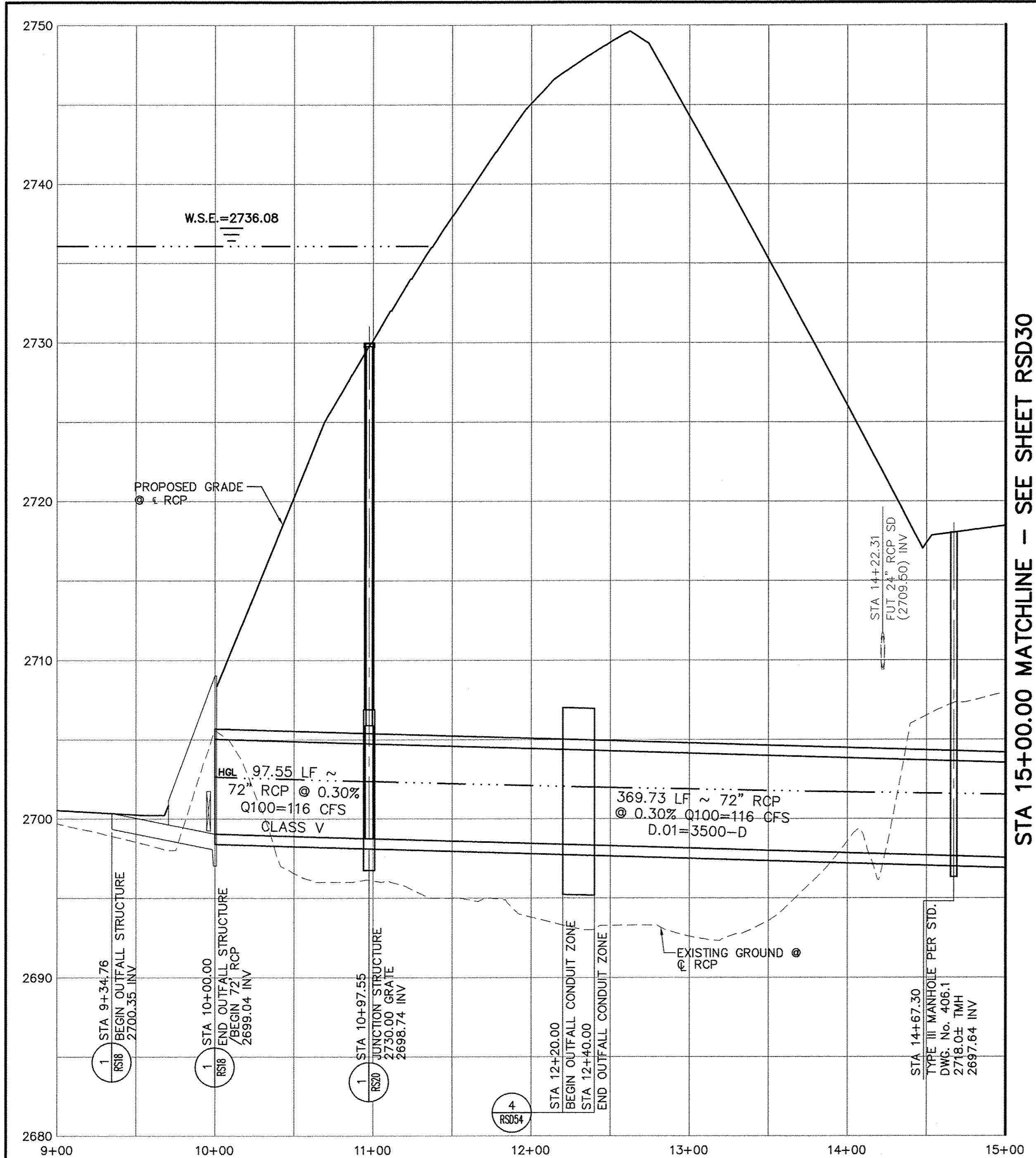
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD28
VERT:	AS SHOWN	
FIELD BOOK		
COPW PROJECT #		
W.O. #	2008-62	SHT. 532 OF 600

BID. NO. 603576-15



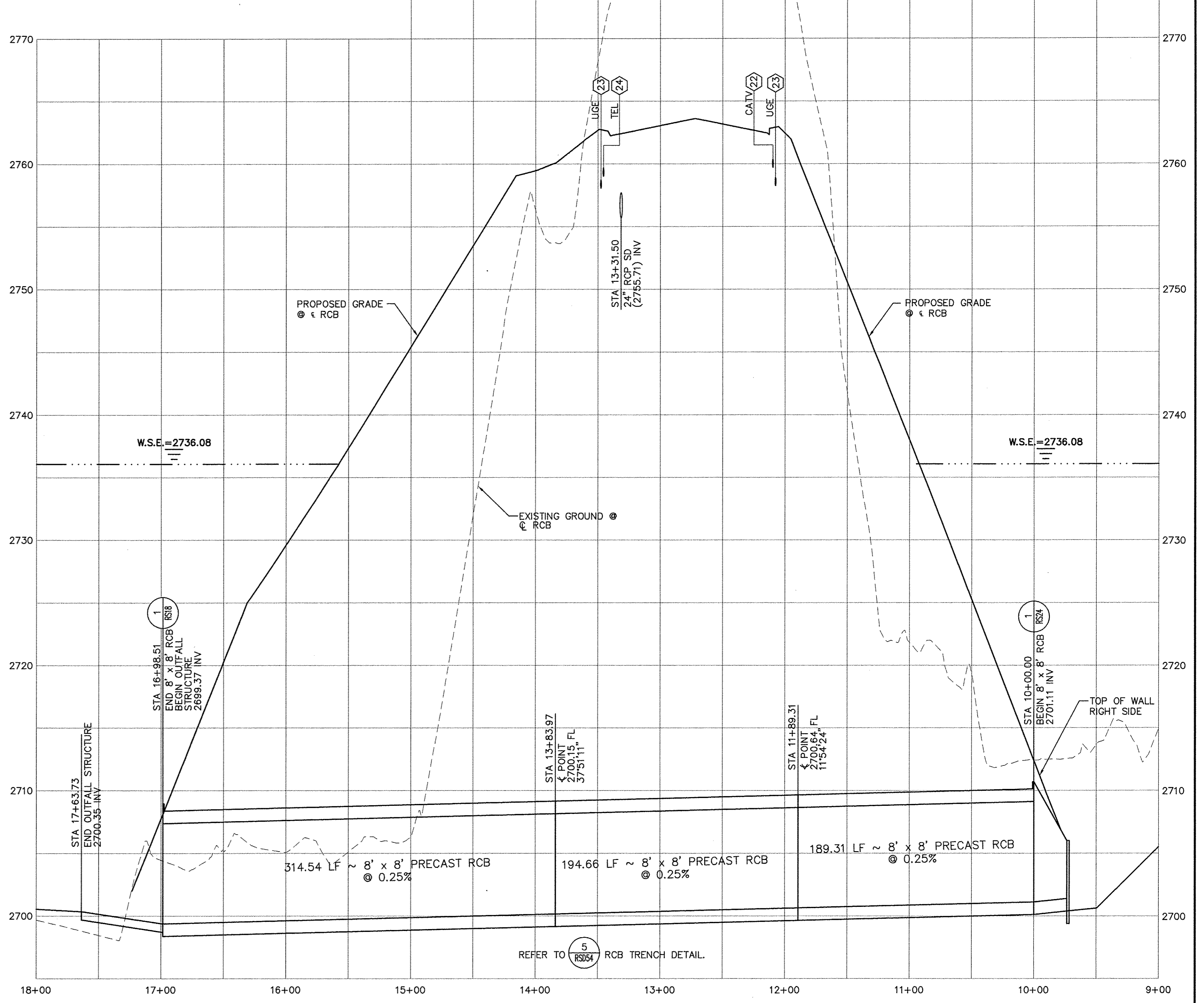
STA 15+00.00 MATCHLINE - SEE SHEET RSD30

**'SDLM-6' PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'

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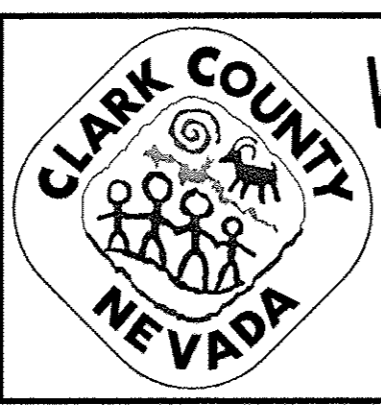


**'SDLM-5' PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'

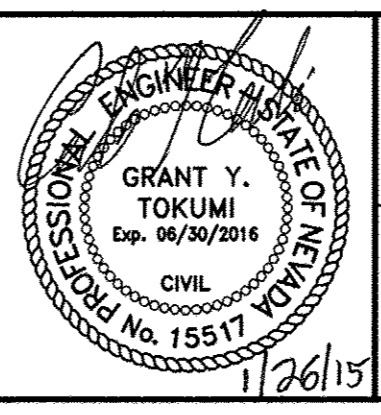


REFER TO 5 RSD64 RCB TRENCH DETAIL.

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
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 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD29
VERT:	AS SHOWN	
FIELD BOOK		SHT. 533 OF 600
CCPW PROJECT #		
W.O. #:		2008-62

BD NO. 603576-15



**DISCLAIMER NOTE**

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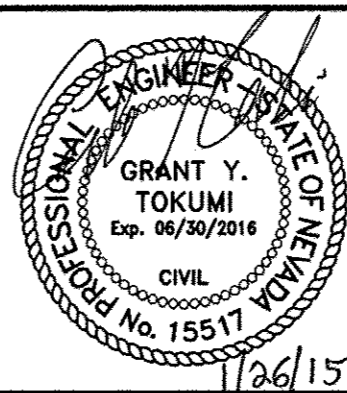
**Call before you Dig**  
 Avoid hitting underground utility lines. It's costly.  
**Call 811**  
 1-800-227-2600

**CALL BEFORE YOU DO OVERHEAD**  
 AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
 1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 SOUTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

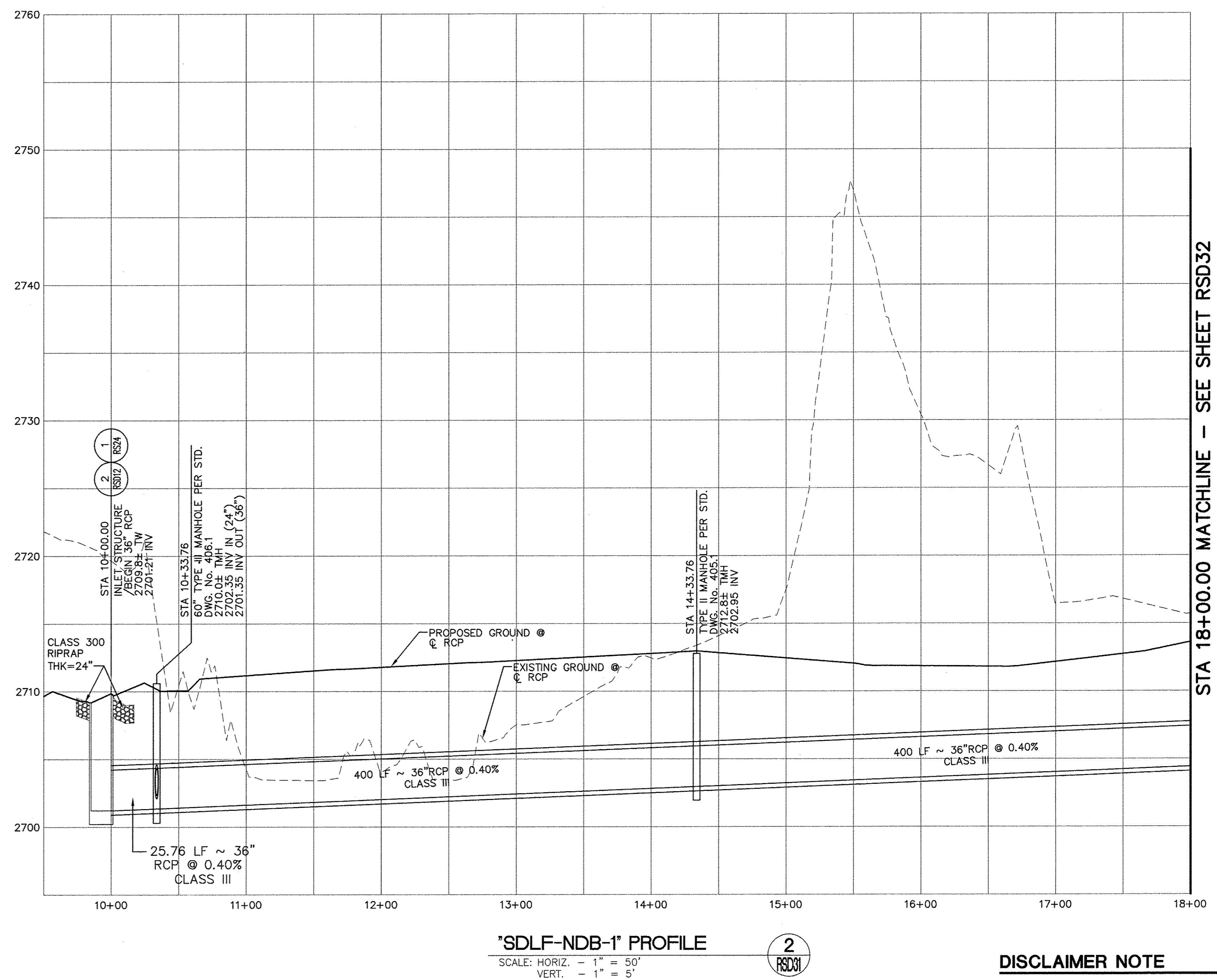
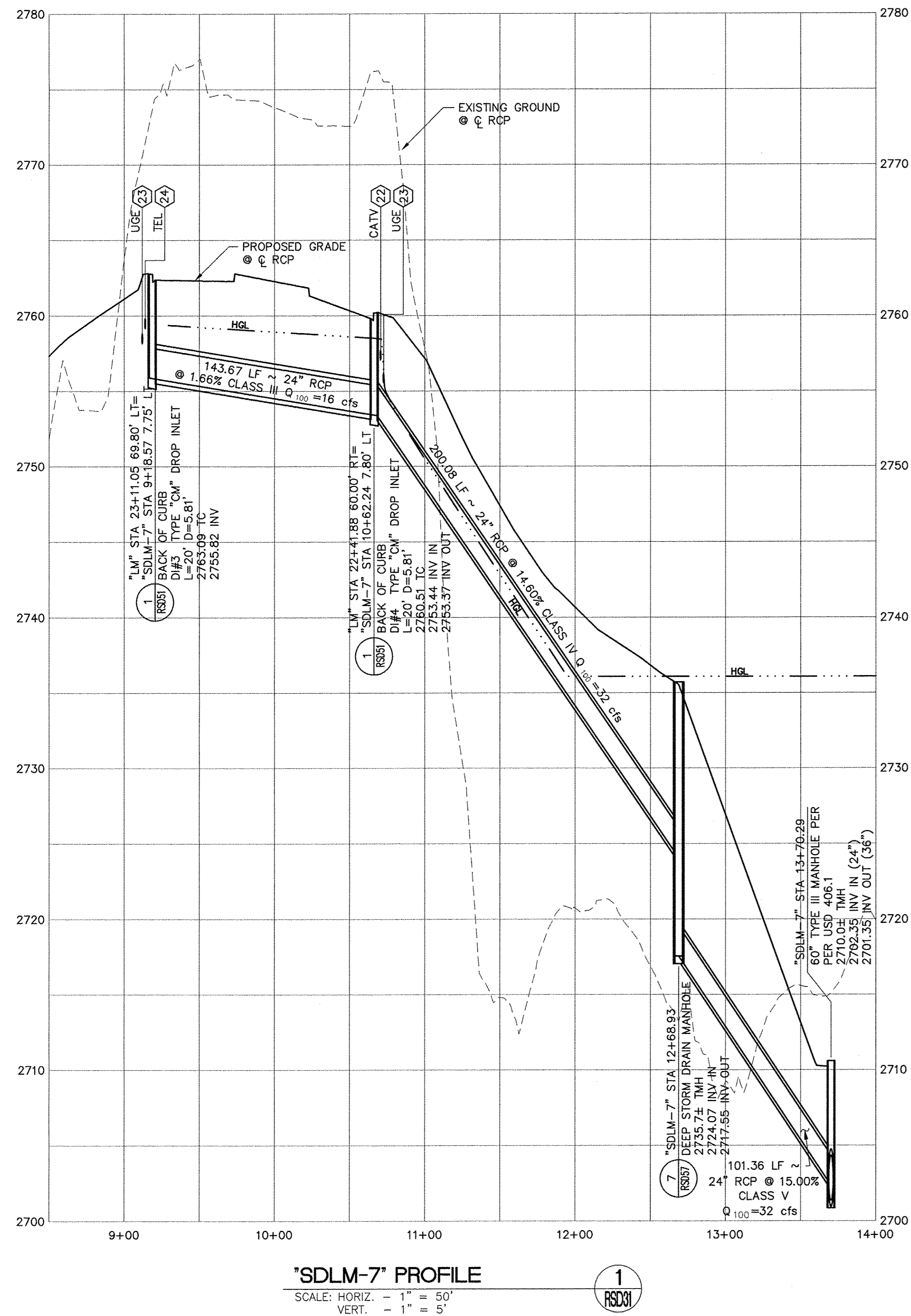


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO. <b>RSD30</b>
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	SHT. 534 OF 600
FIELD BOOK		
CPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15



STA 18+00.00 MATCHLINE - SEE SHEET RSD32

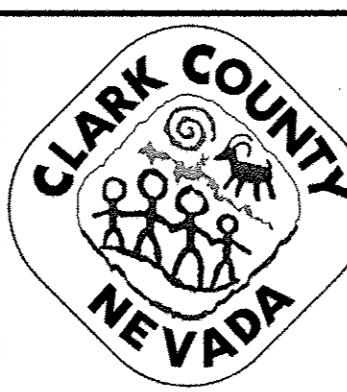
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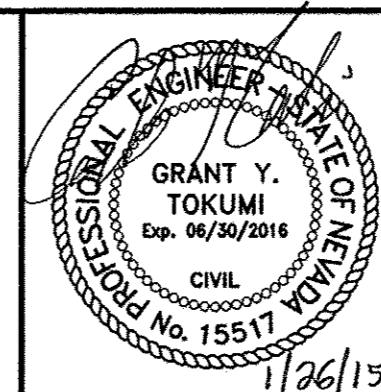
Call before you Dig  
Avoid hitting underground utility lines. It's costly.  
**Call**  
  
 1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY!  
**CALL BEFORE YOU DO OVERHEAD**  
  
 1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 NORTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

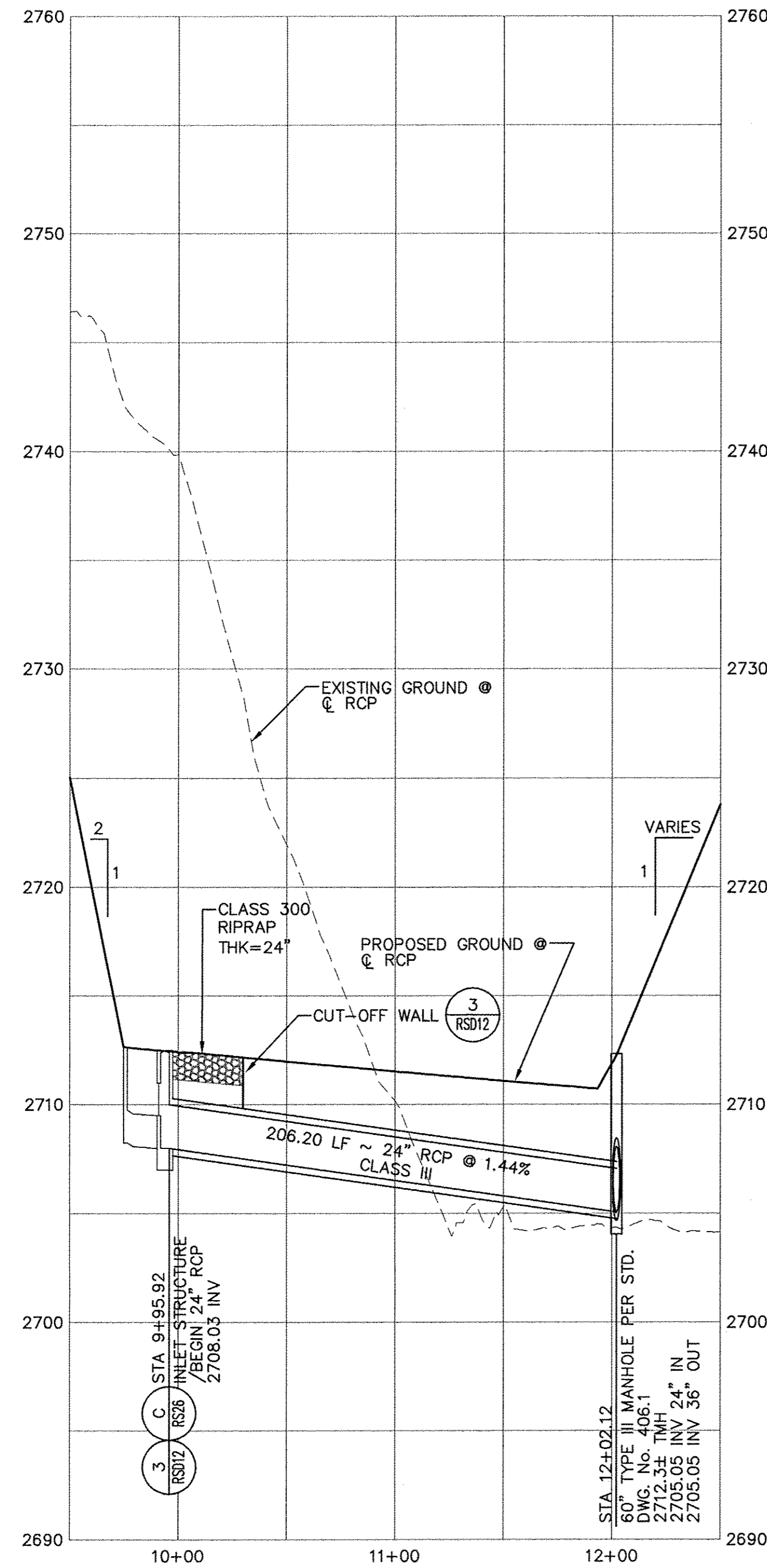


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE	
HORIZ:	AS SHOWN
VERT:	AS SHOWN
FIELD BOOK	
CPWP PROJECT #	
W.O. #	2008-62

DRAWING NO.  
**RSD31**  
 SHT. 535 OF 600

BID. NO. 603576-15

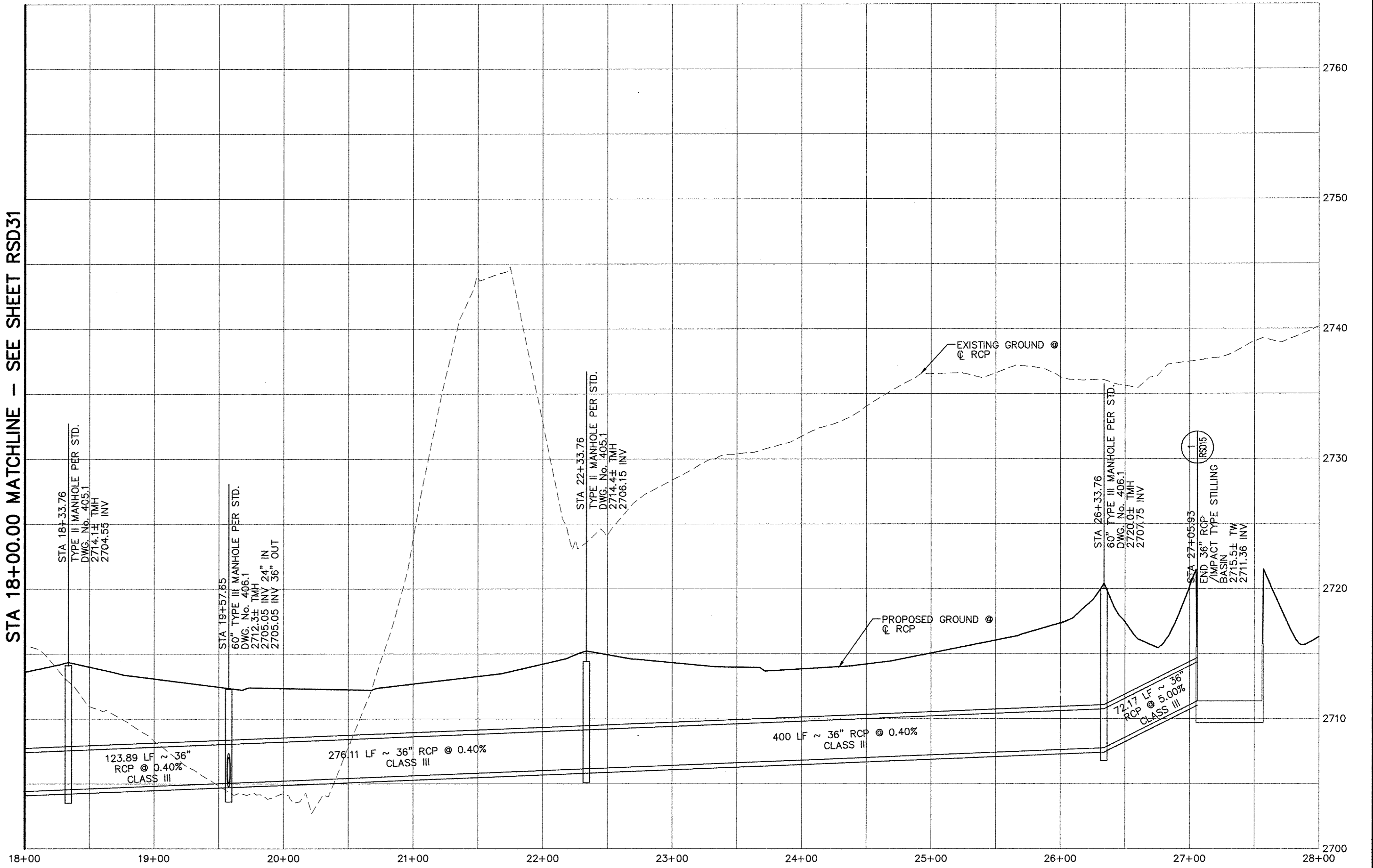


'SDLF-NDB-2' PROFILE

SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'



STA 18+00.00 MATCHLINE - SEE SHEET RSD31



'SDLF-NDB-1' PROFILE

SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'



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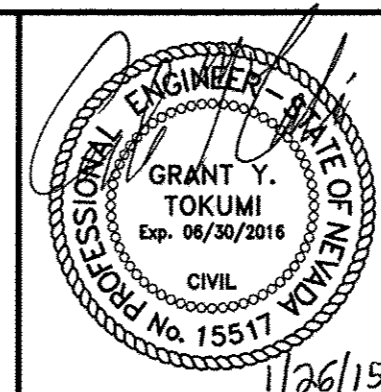


**APPROVED FOR CONSTRUCTION**  
LAS VEGAS VALLEY WATER DISTRICT LVWD PROJECT #107164 DATE \_\_\_\_\_

REV. NO.	DATE	DESCRIPTION	APPROVED

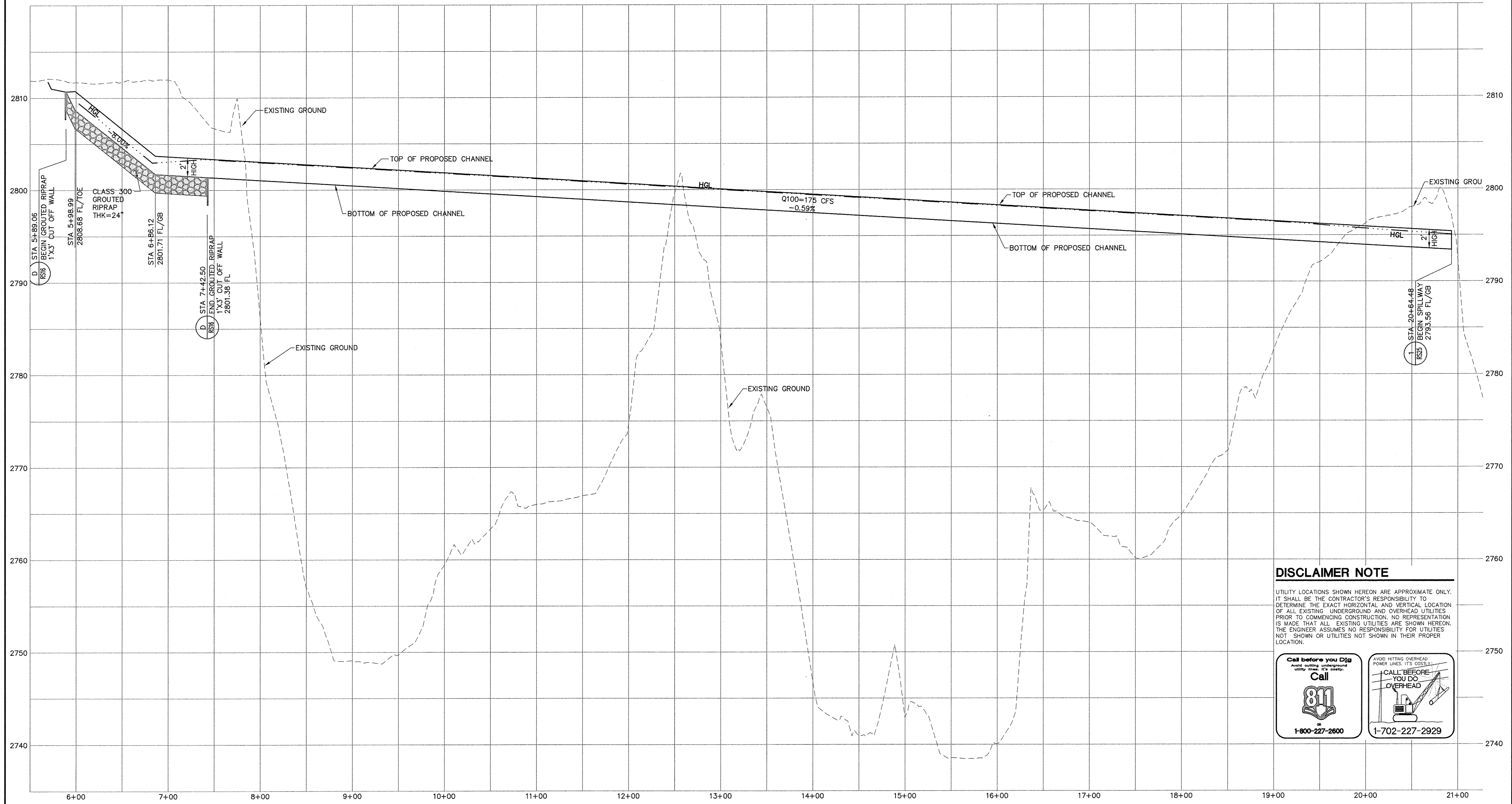


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
PROFILES  
NORTH DETENTION BASIN  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD32
VERT:	AS SHOWN	
FIELD BOOK		SHT. 536 OF 600
W.O. #: 2008-62		



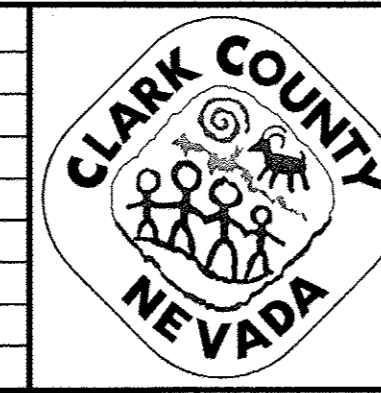
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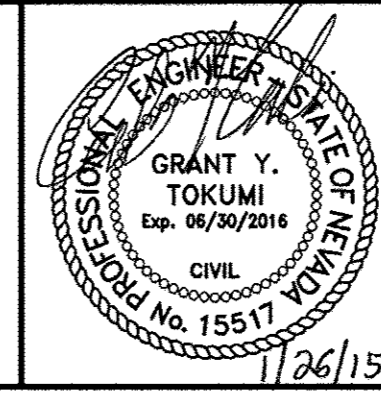


**"SDNDB-B1" PROFILE**  
 SCALE: HORIZ. - 1" = 50'  
 VERT. - 1" = 5'

REV. NO.	DATE	DESCRIPTION	APPROVED



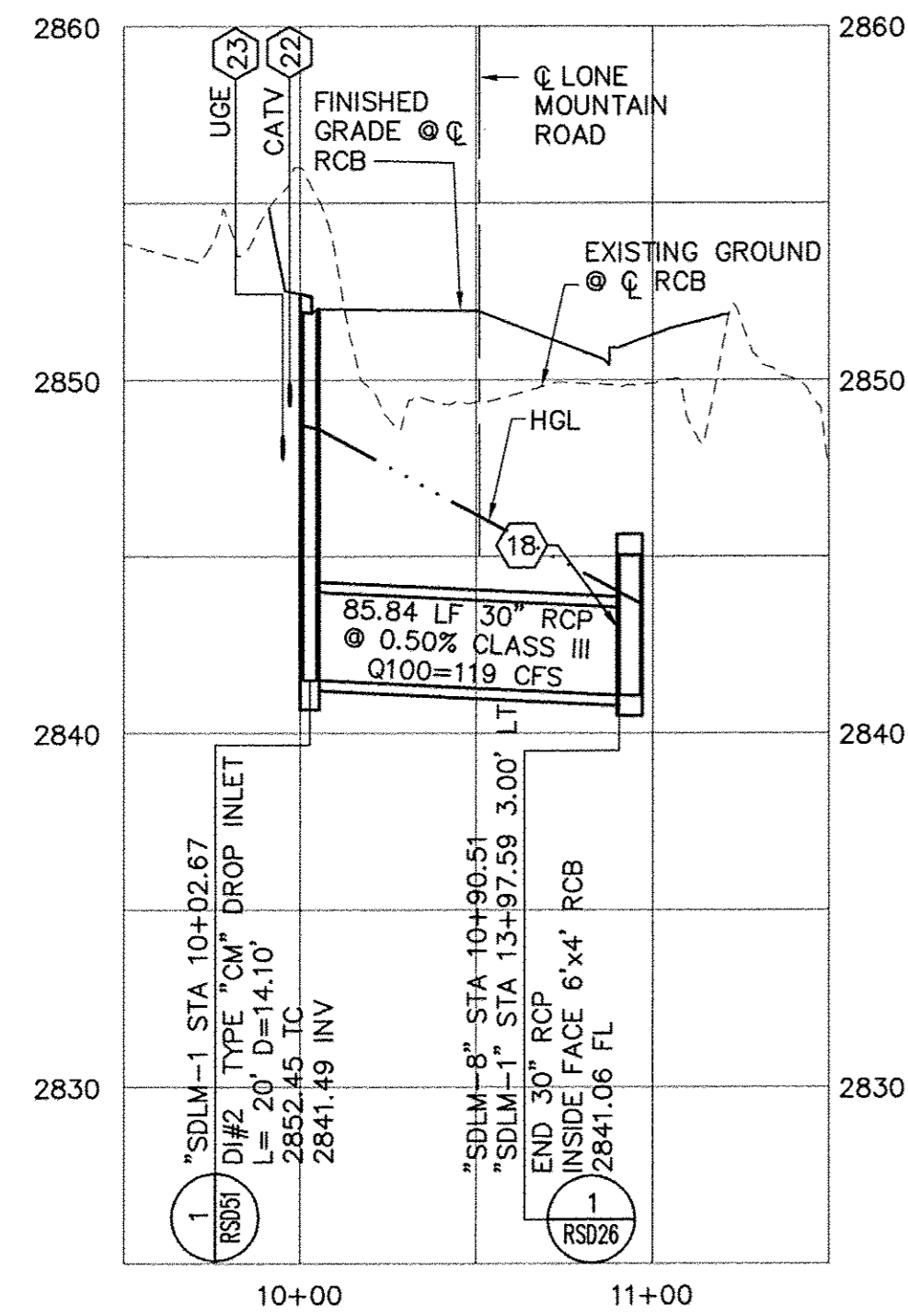
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 PROFILES  
 NORTH DETENTION BASIN  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO. <b>RSD33</b>
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	SHT. 537 OF 600
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	

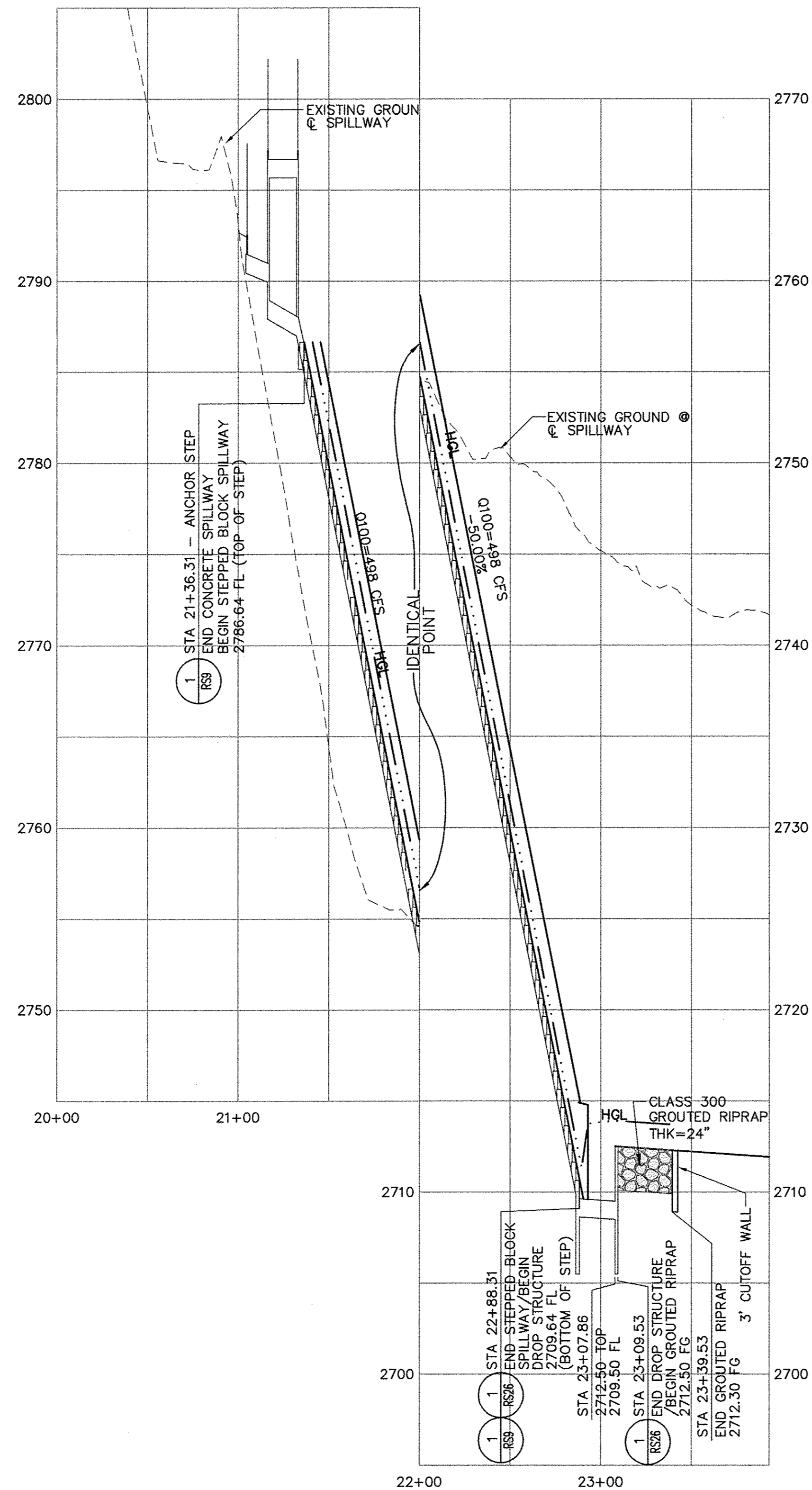
BID NO. 603576-15



**"SDLM-8" PROFILE**

SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

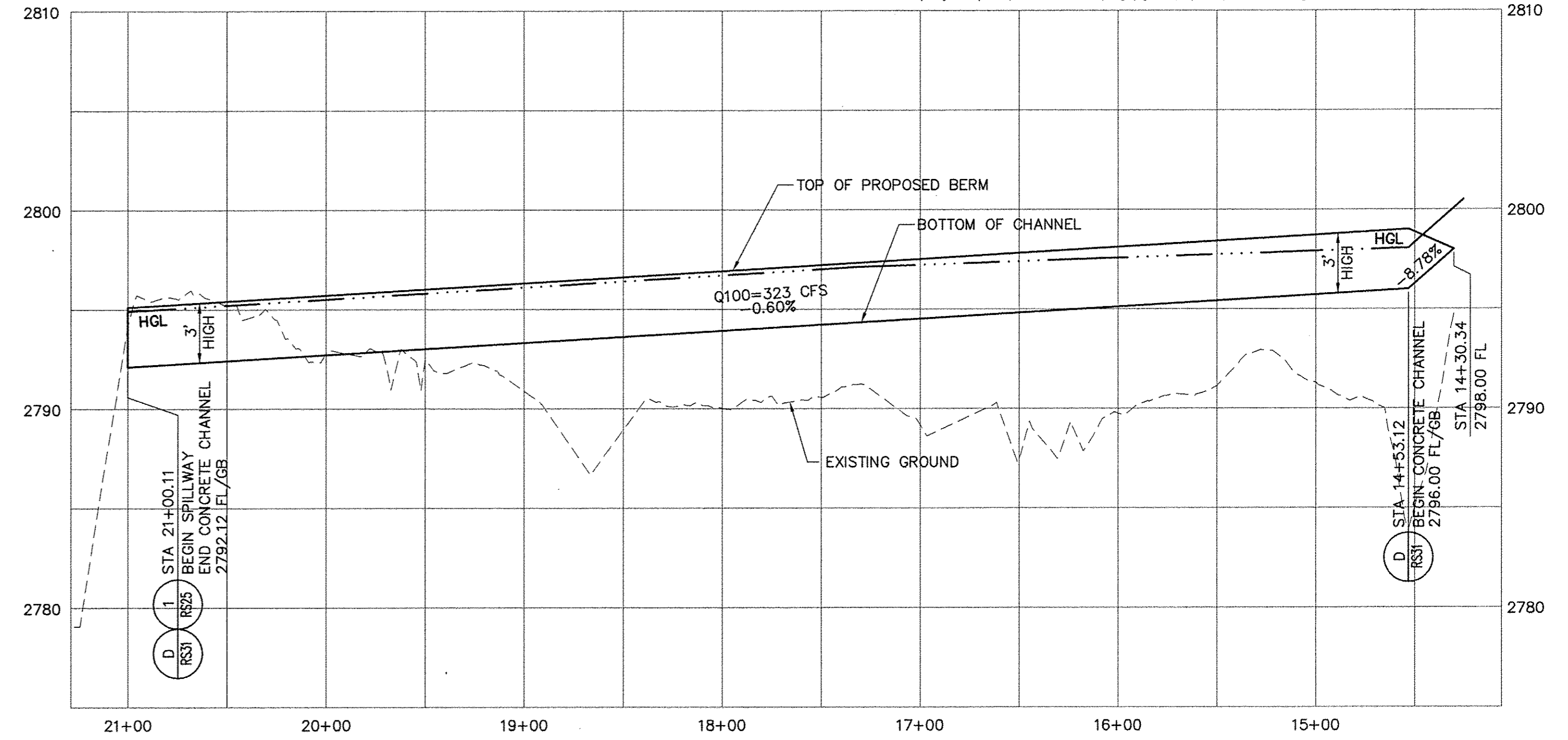
3  
RSD34



**"SDNDB-B3" PROFILE**

SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

2  
RSD34



**"SDNDB-B2" PROFILE**

SCALE: HORIZ. - 1" = 50'  
VERT. - 1" = 5'

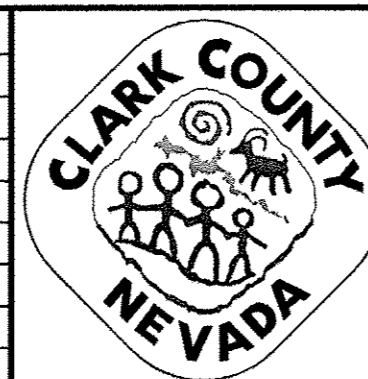
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RSD34

**DISCLAIMER NOTE**

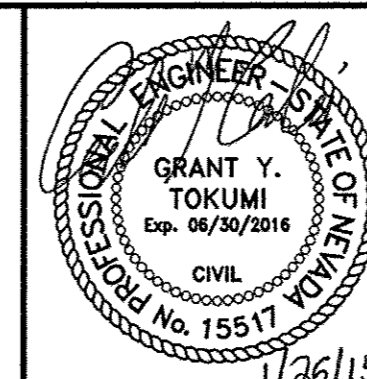
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REV. NO.	DATE	DESCRIPTION	APPROVED



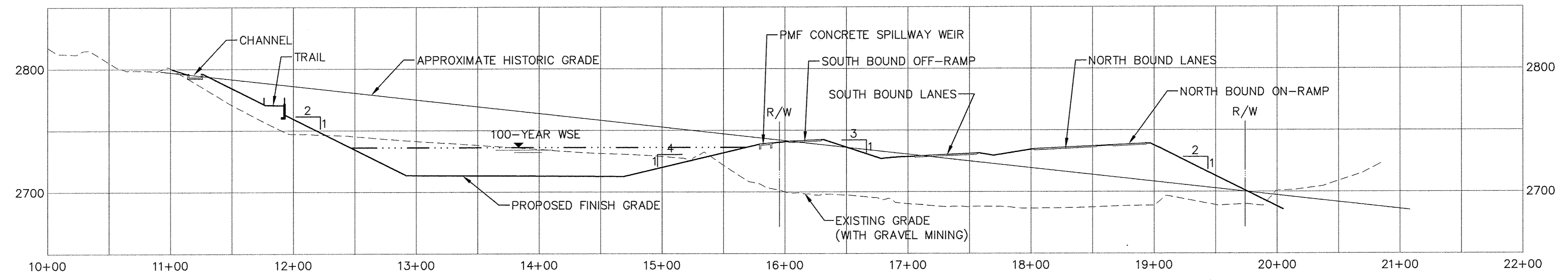
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**PROFILES**  
**NORTH DETENTION BASIN**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO. <b>RSD34</b>
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	SHT. 538 OF 600
FIELD BOOK		
W.O. #:	2008-62	





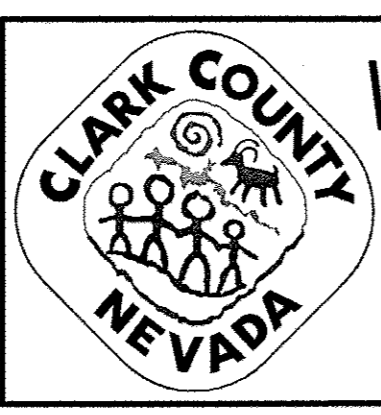
**CROSS SECTION (NORTH BASIN)**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 50'

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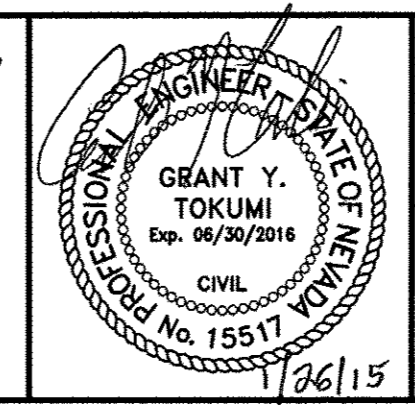


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**CROSS SECTION**

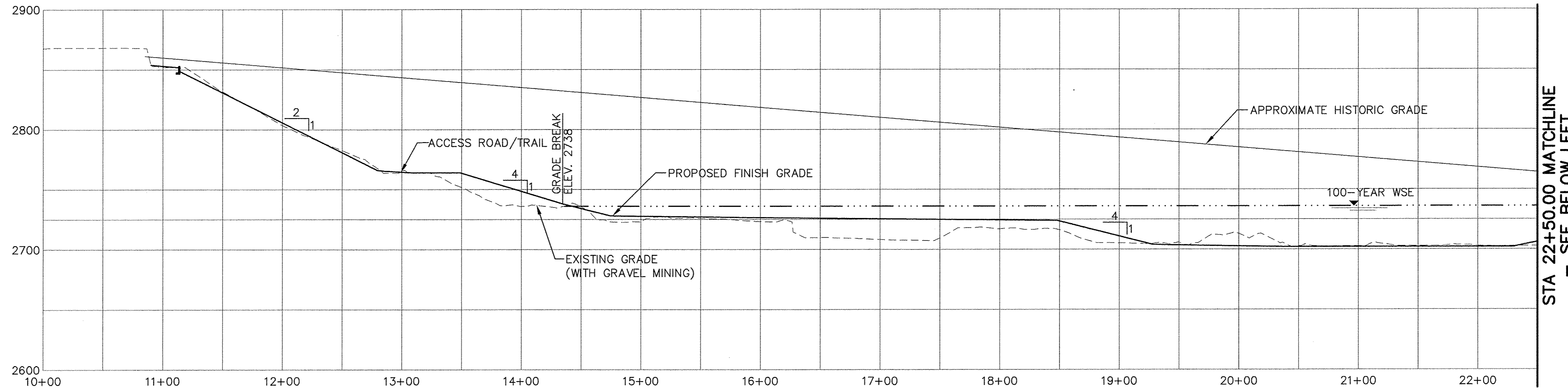
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



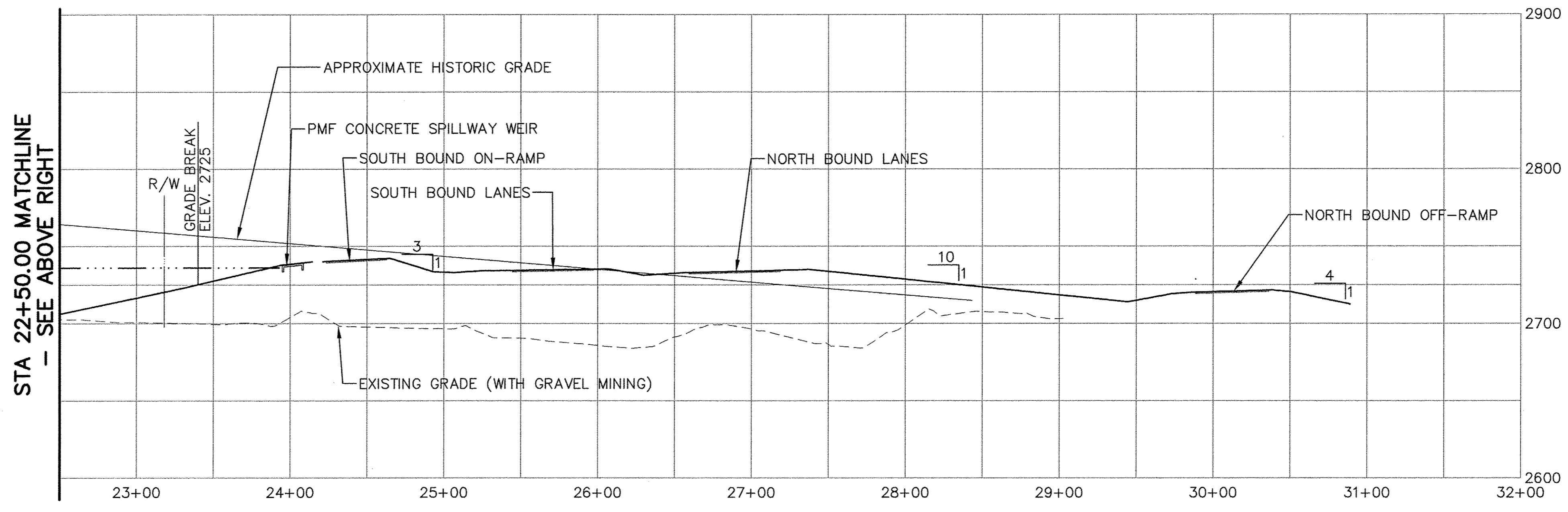
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO. <b>RSD35</b>
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	SHT. 539 OF 600
FIELD BOOK	CCPW PROJECT #	
W.O. #:	2008-62	

BID NO. 603576-15

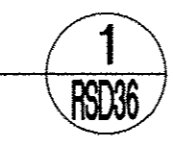


STA 22+50.00 MATCHLINE  
- SEE BELOW LEFT



STA 22+50.00 MATCHLINE  
- SEE ABOVE RIGHT

CROSS SECTION (SOUTH BASIN)  
SCALE: HORIZ. 1" = 50'  
VERT. 1" = 50'



**DISCLAIMER NOTE**

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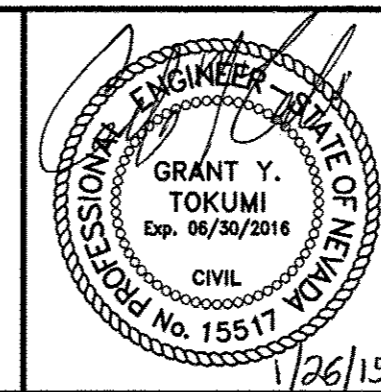


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
CROSS SECTIONS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

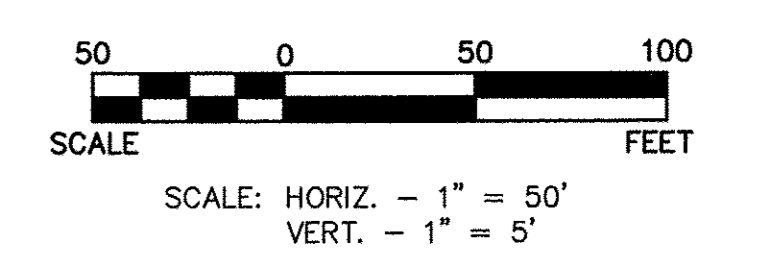
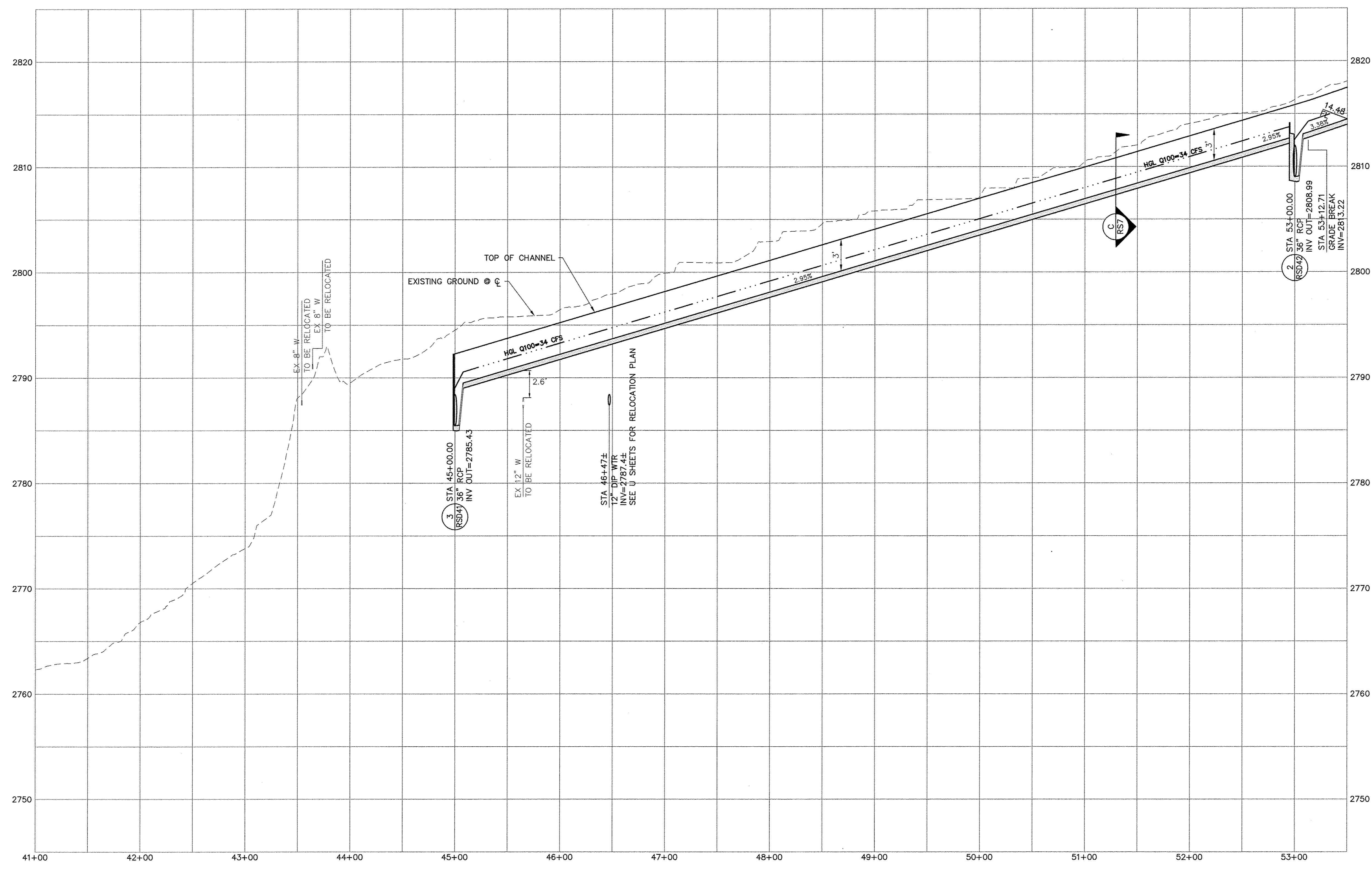


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE  
HORIZ: AS SHOWN  
VERT: AS SHOWN  
FIELD BOOK  
CCPW PROJECT #  
W.O. #: 2008-62

DRAWING NO.  
**RSD36**  
SHT. 540 OF 600

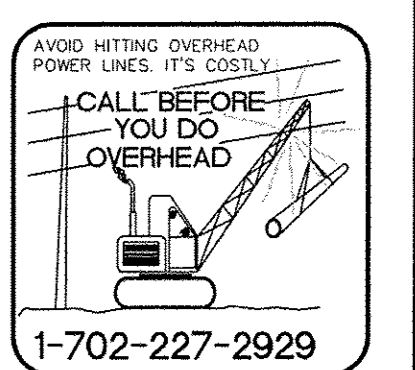
BID NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD38

**DISCLAIMER NOTE**

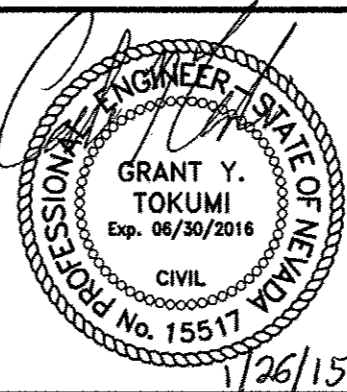
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



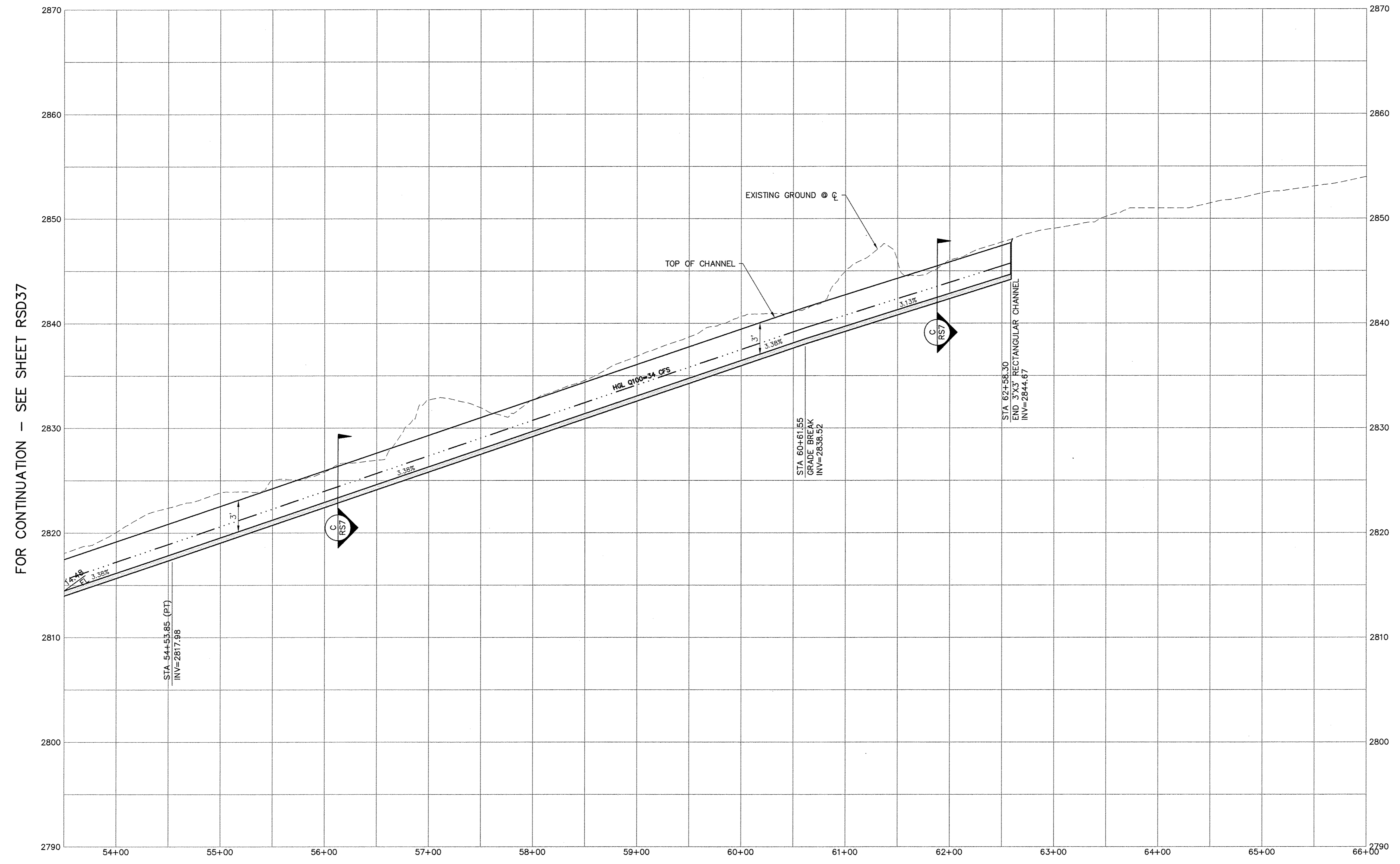
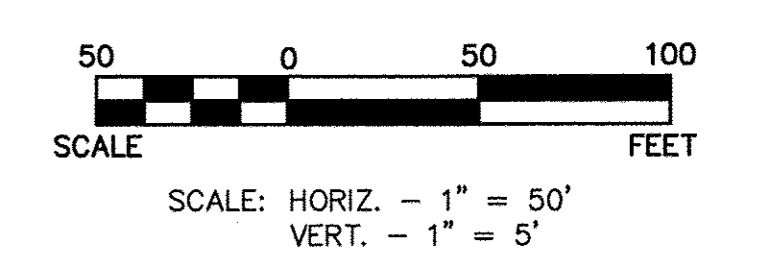
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**3'x3' RECTANGULAR CHANNEL RC-1**  
**STA 41+00.00 TO STA 53+50.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE  
 HORIZ: 1"=50'  
 VERT: 1"=5'  
 FIELD BOOK  
 COPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD37**  
 SHT. 541 OF 600



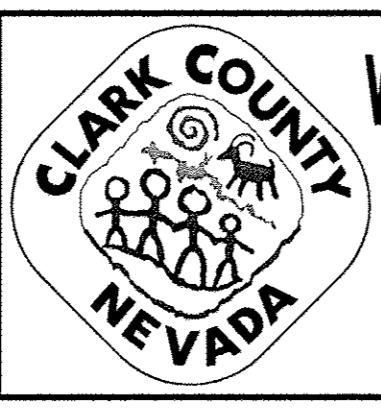
FOR CONTINUATION - SEE SHEET RSD37

**DISCLAIMER NOTE**

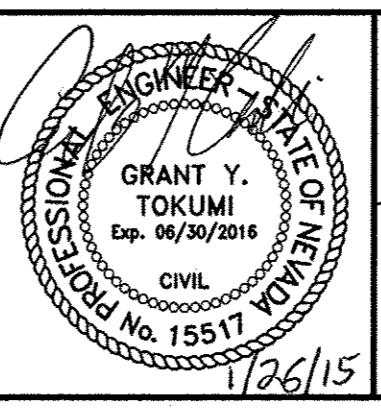
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REV. NO.	DATE	DESCRIPTION	APPROVED



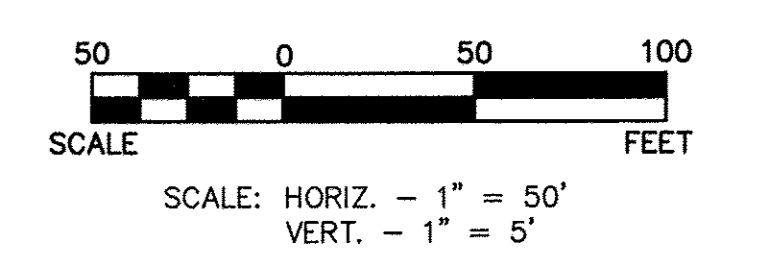
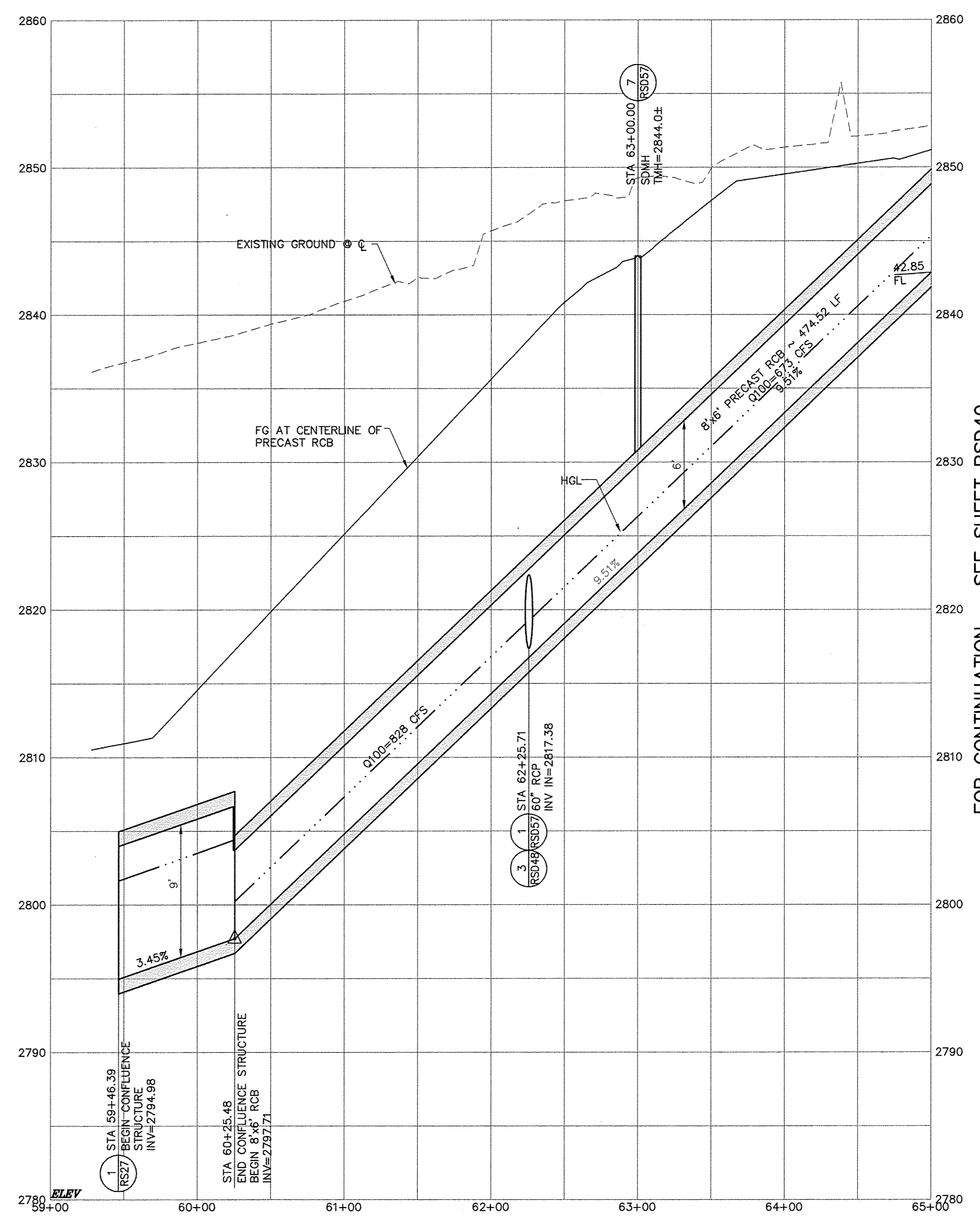
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**3'x3' RECTANGULAR CHANNEL RC-1**  
**STA 53+50.00 TO STA 66+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO. <b>RSD38</b>
HORIZ:	1"=50'	
VERT:	1"=5'	SHT. 542 OF 600
FIELD BOOK		
COPW PROJECT #		
W.O. #:	2008-62	

BD NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD40

**DISCLAIMER NOTE**

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

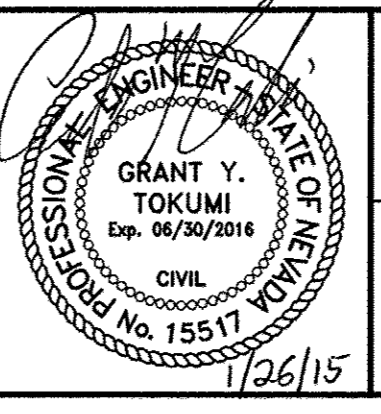
**Call before you Dig**  
Avoid hitting underground utility lines. It's costly.  
**Call**  
**811**  
OR  
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
  
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



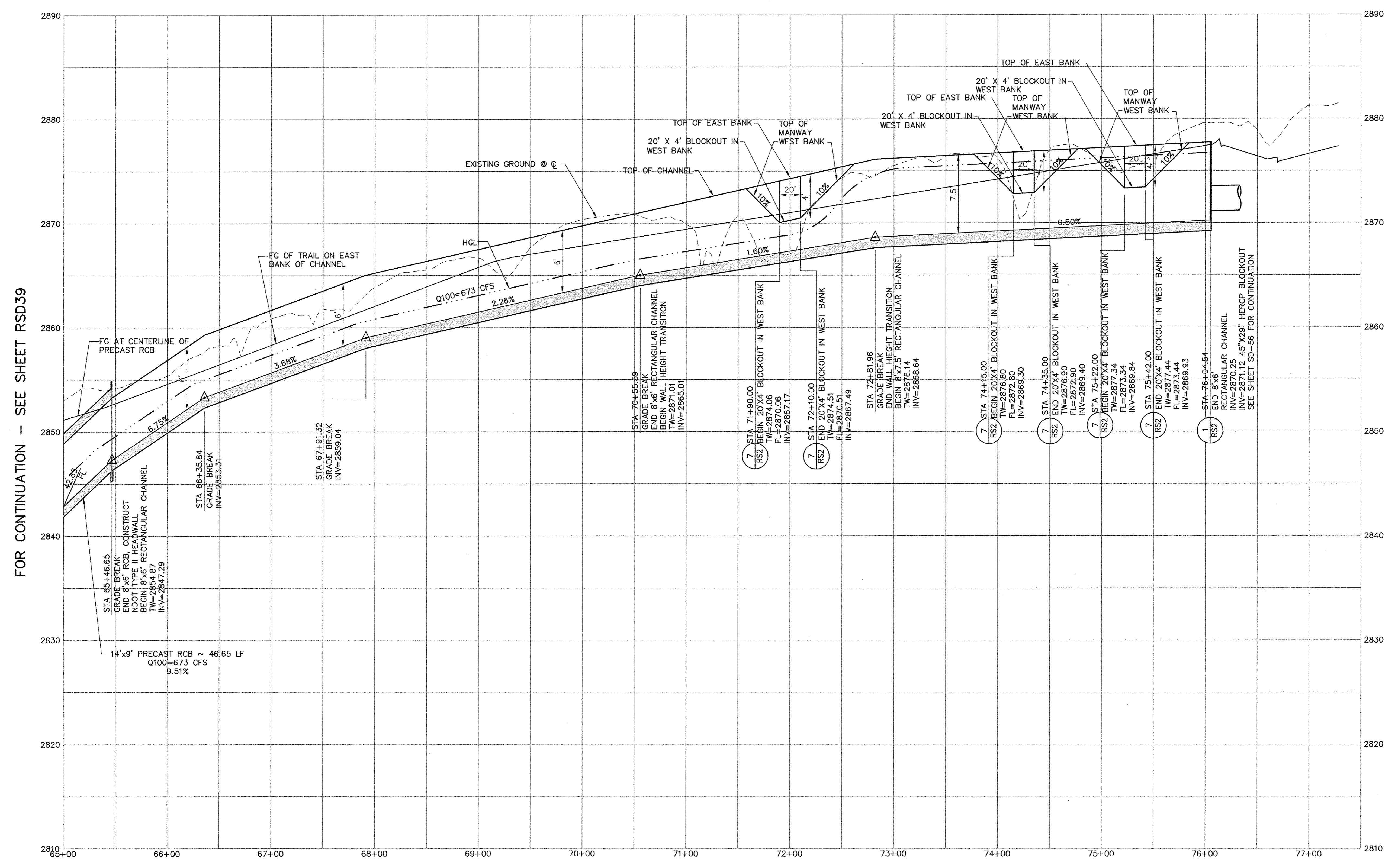
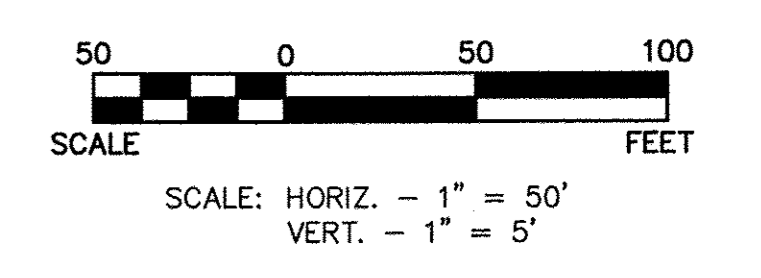
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
8'x6' RCB RC-2  
STA 59+00.00 TO STA 65+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

<b>SCALE</b>		<b>DRAWING NO.</b>  <b>RSD39</b>
HORIZ:	1"=50'	
VERT:	1"=5'	<b>W.O. #:</b> 2008-62 <b>SHT.</b> 543 OF 600
<b>FIELD BOOK</b>		
<b>CPW PROJECT #</b>		

BID. NO. 603576-15



FOR CONTINUATION - SEE SHEET RSD39

**DISCLAIMER NOTE**

UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.

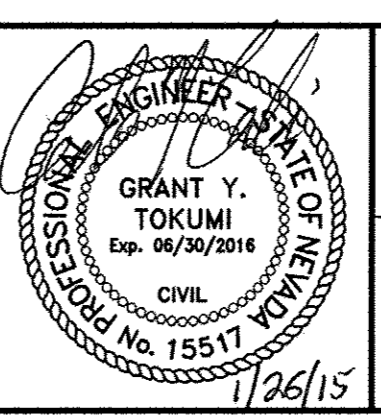
Call before you Dig  
Avoid hitting underground utilities. It's costly.  
**Call**  
  
OR  
1-800-227-2600

AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
  
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



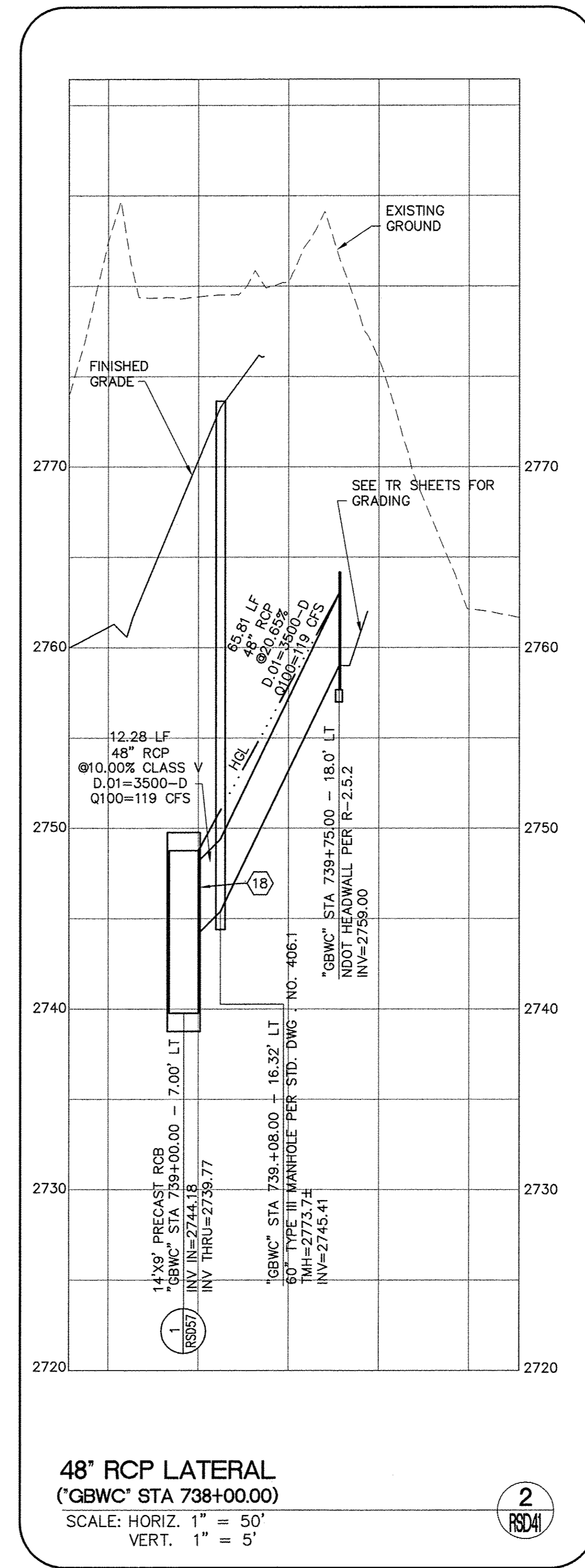
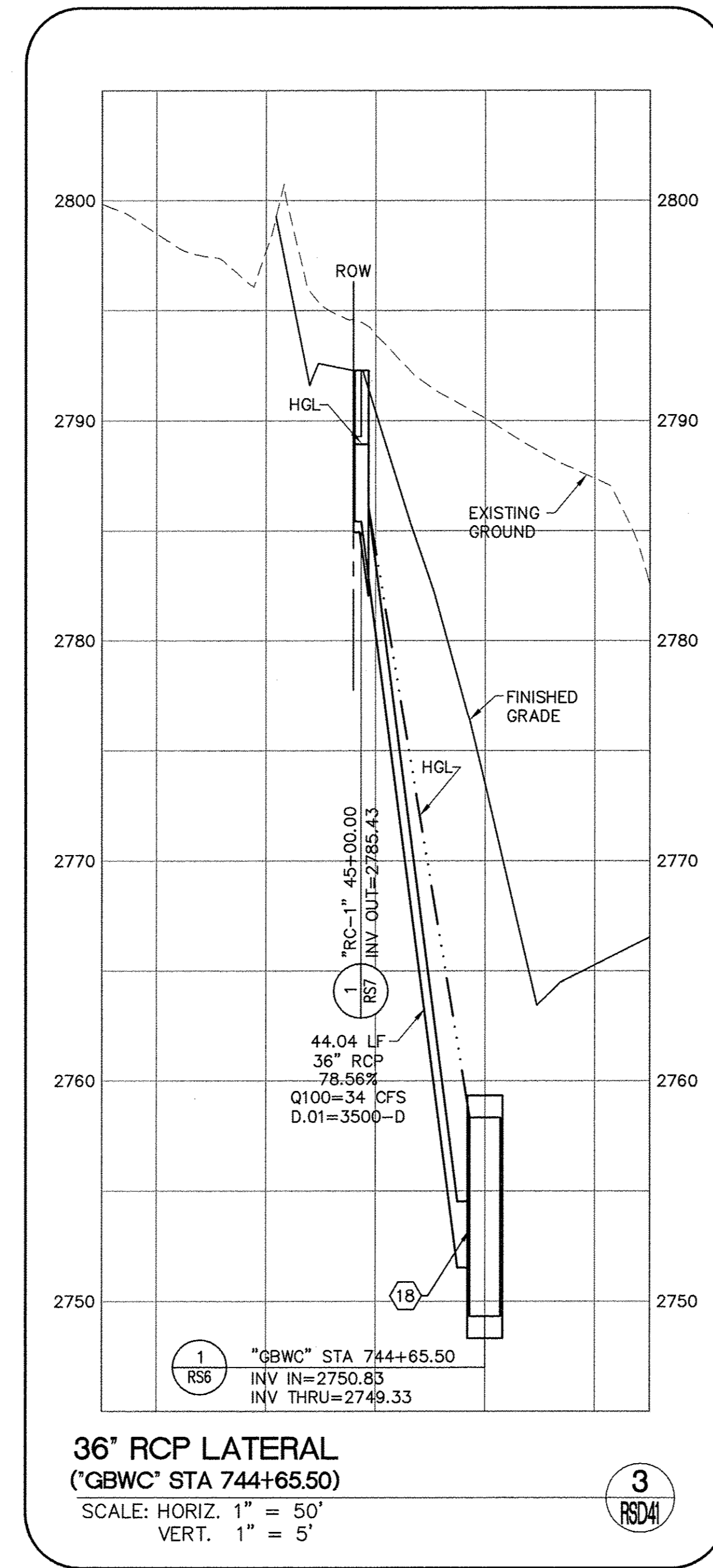
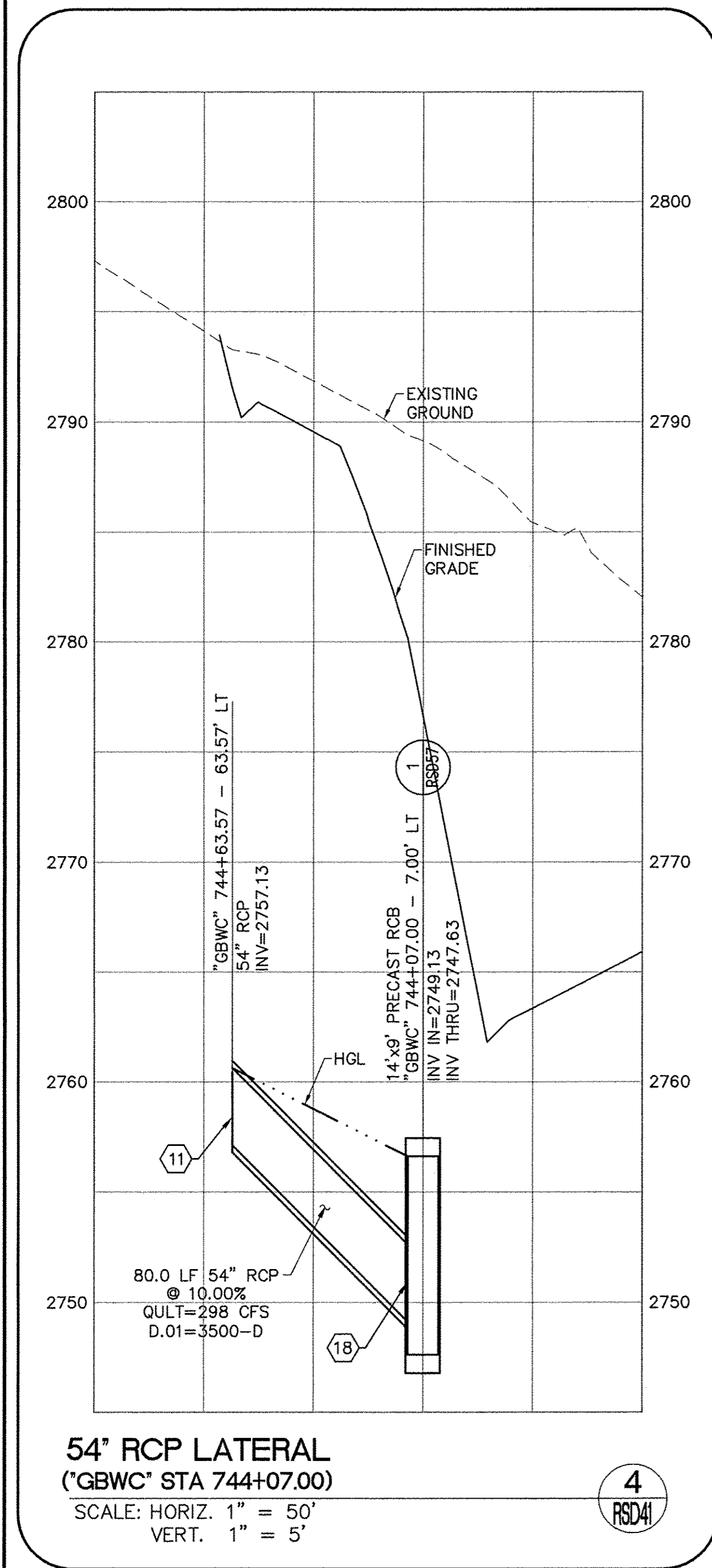
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**8'x6' RECTANGULAR CHANNEL RC-2**  
**STA 65+00.00 TO STA 77+00.00**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO. <b>RSD40</b>
HORIZ:	1"=50'	
VERT:	1"=5'	SHT. 544 OF 600
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15



**DISCLAIMER NOTE**  
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Call before you Dig  
Avoid existing underground utility lines. It's costly.  
**Call**  
**811**  
OR  
1-800-227-2600

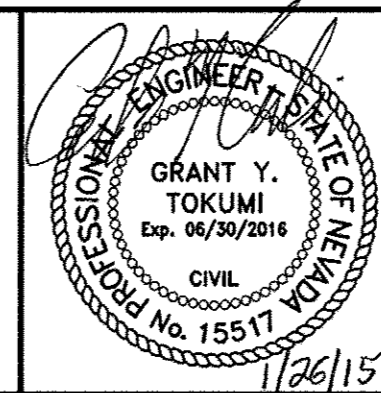
AVOID HITTING OVERHEAD POWER LINES. IT'S COSTLY.  
**CALL BEFORE YOU DO OVERHEAD**  
1-702-227-2929

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY LATERALS**

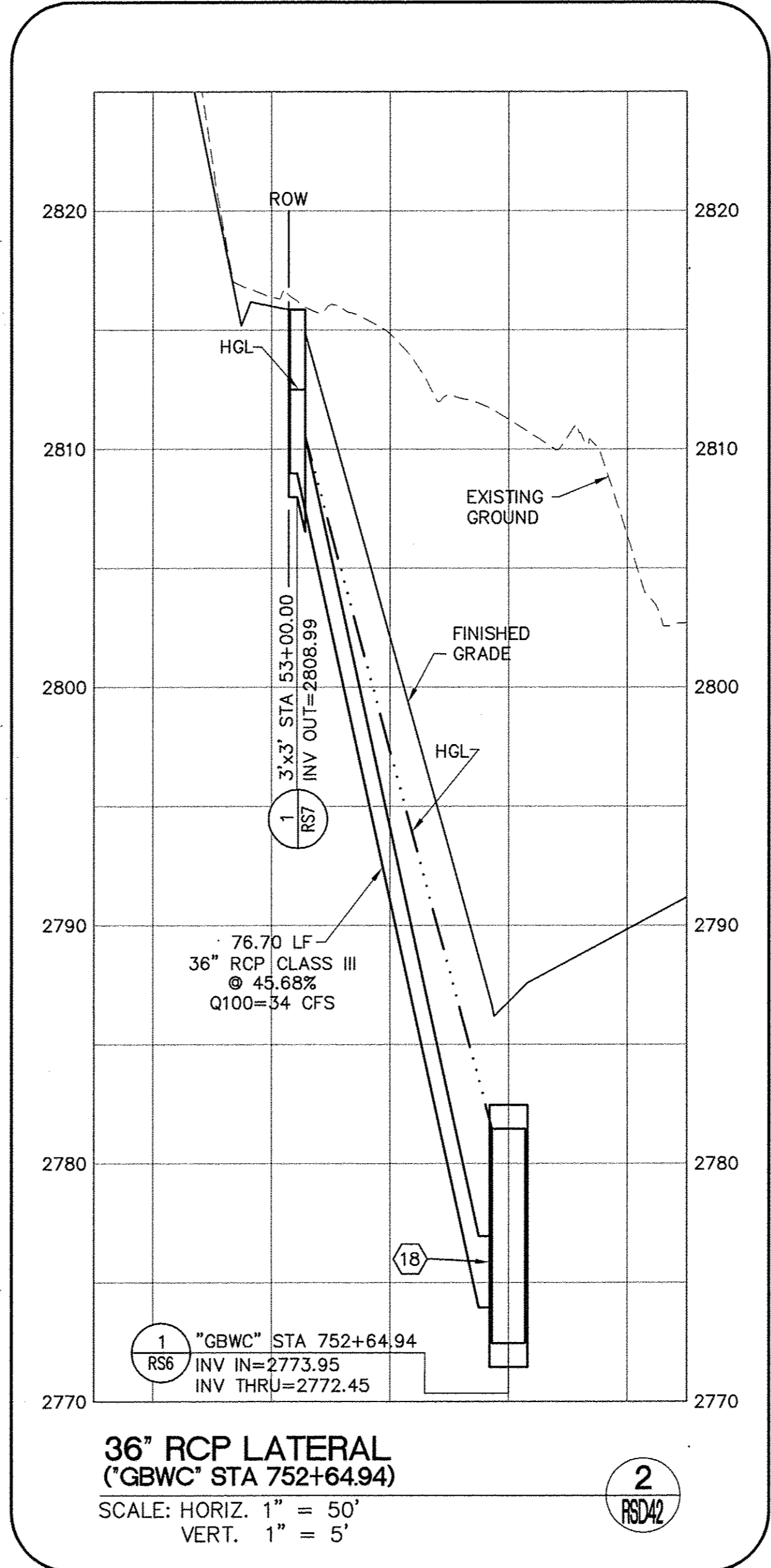
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE		DRAWING NO. <b>RSD41</b>
HORIZ:	1"=50'	
VERT:	1"=5'	SHT. 545 OF 600
FIELD BOOK		
COPW PROJECT #		
W.O. #:	2008-62	

BID. NO. 603576-15



**36" RCP LATERAL**  
 ("GBWC" STA 752+64.94)  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

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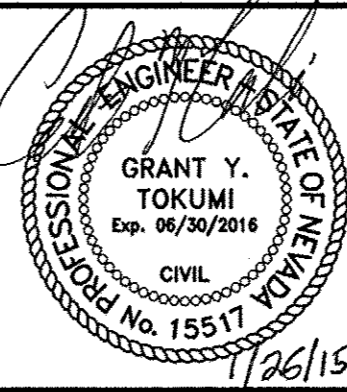


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**LATERALS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

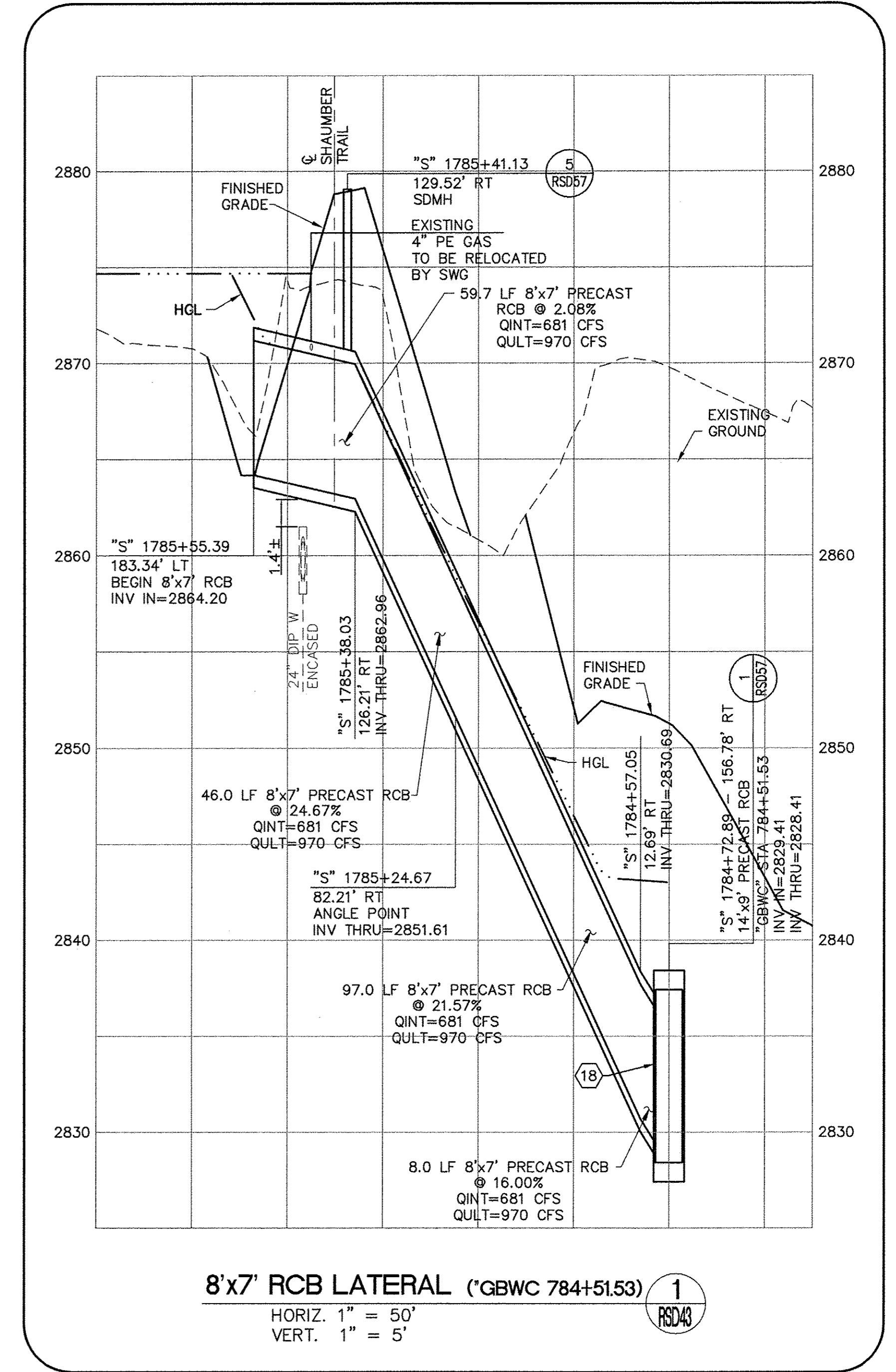
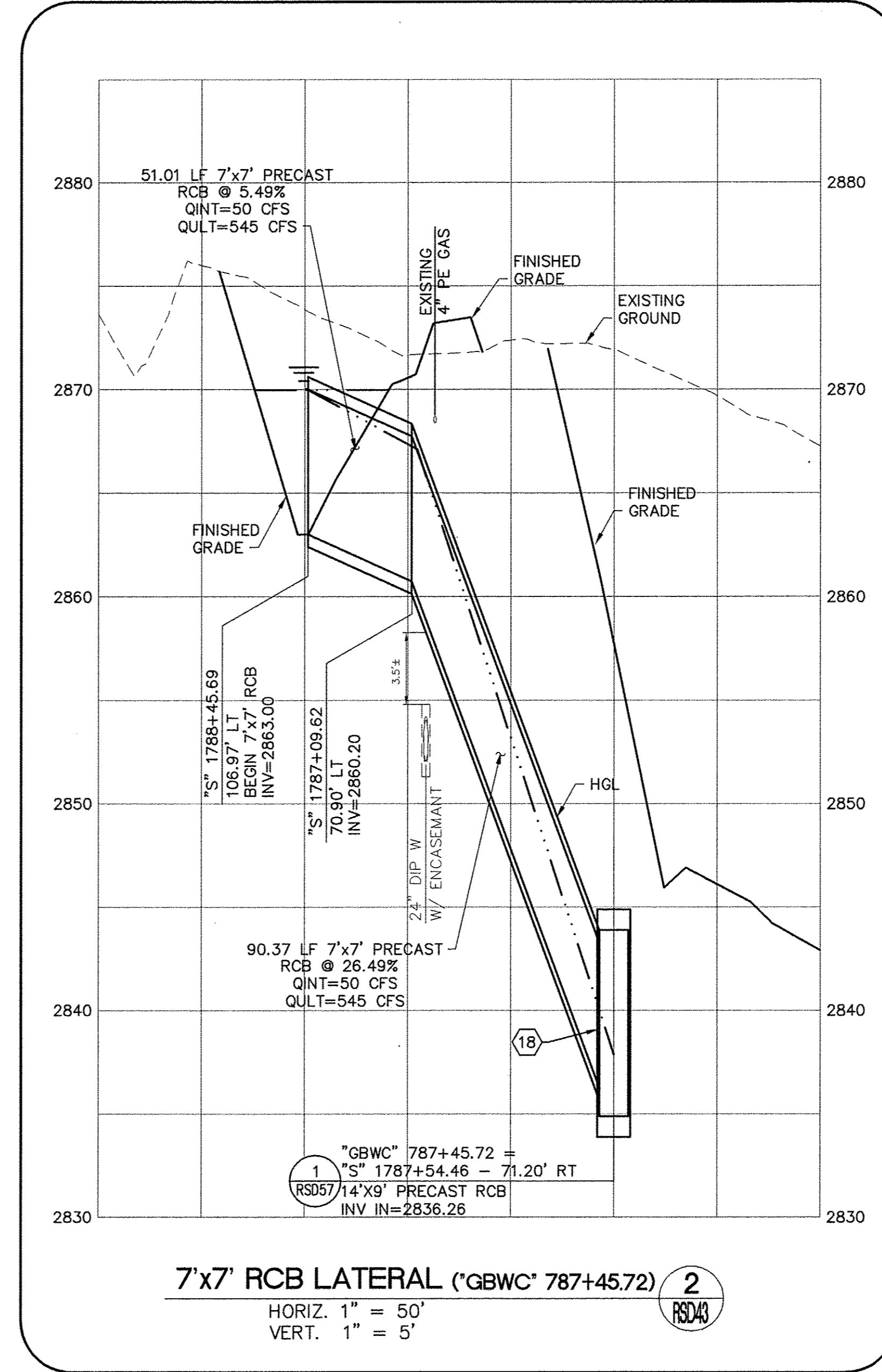
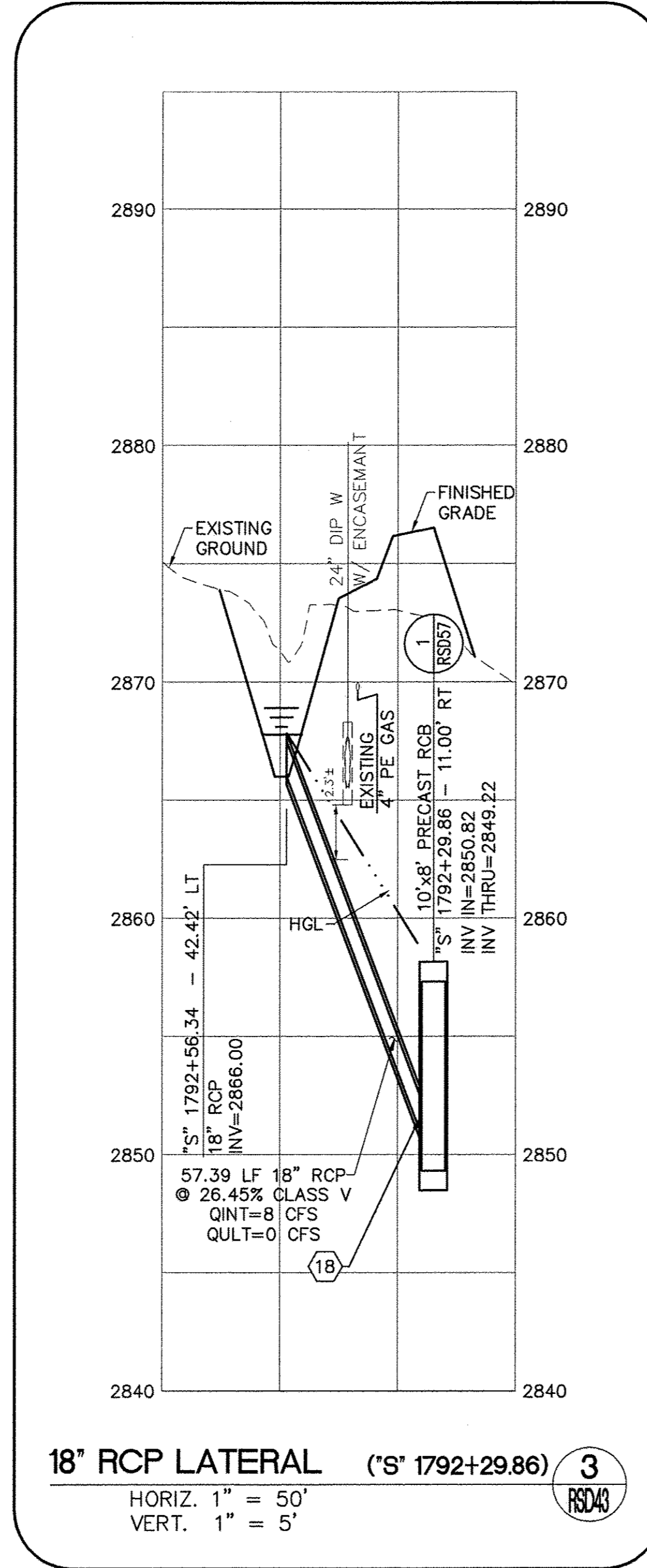
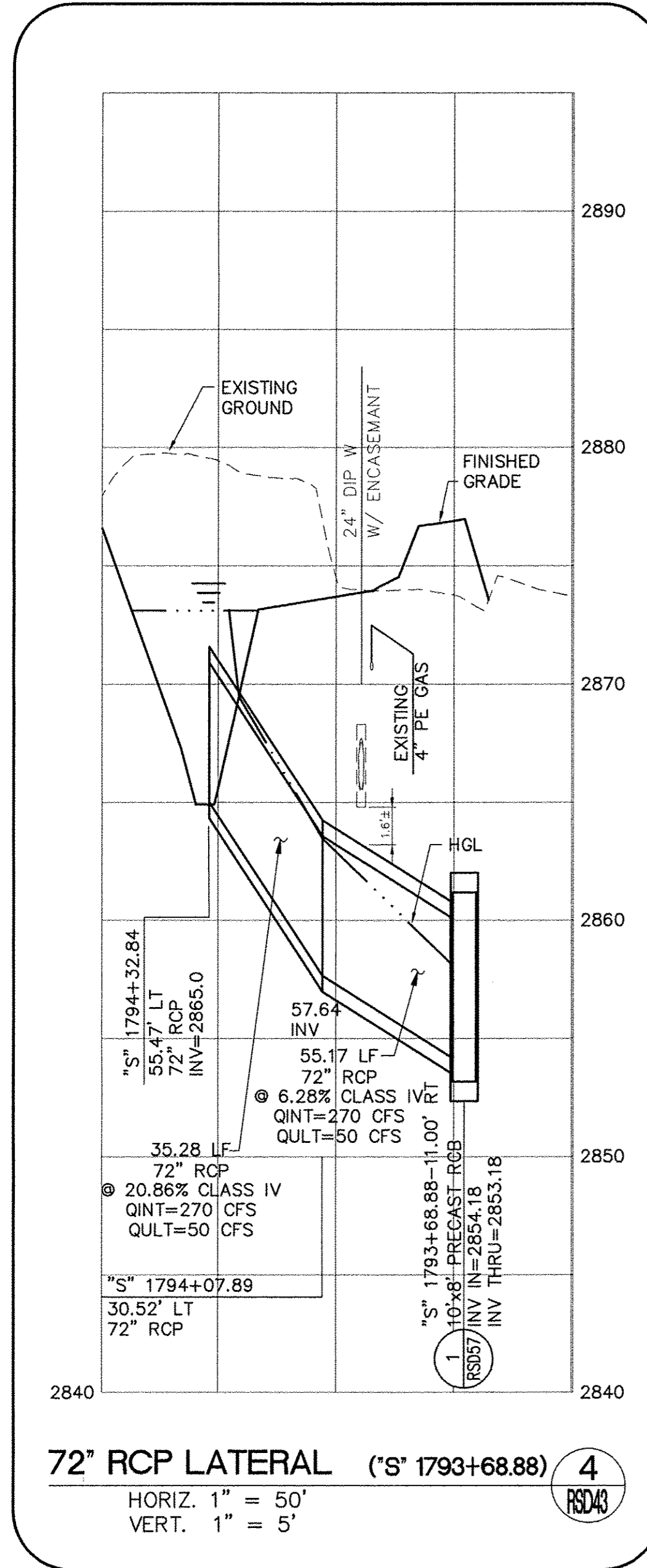


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO. <b>RSD42</b>
HORIZ:	1"=50'	
VERT:	1"=5'	SHT. 546 OF 600
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15





**DISCLAIMER NOTE**

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Call before you Dig  
 Avoid costly underground utility lines. It's easy.  
**Call 811**  
 1-800-227-2600

CALL BEFORE YOU DO OVERHEAD  
 Avoid hitting overhead power lines. It's costly.  
**1-702-227-2929**

REV. NO.	DATE	DESCRIPTION	APPROVED

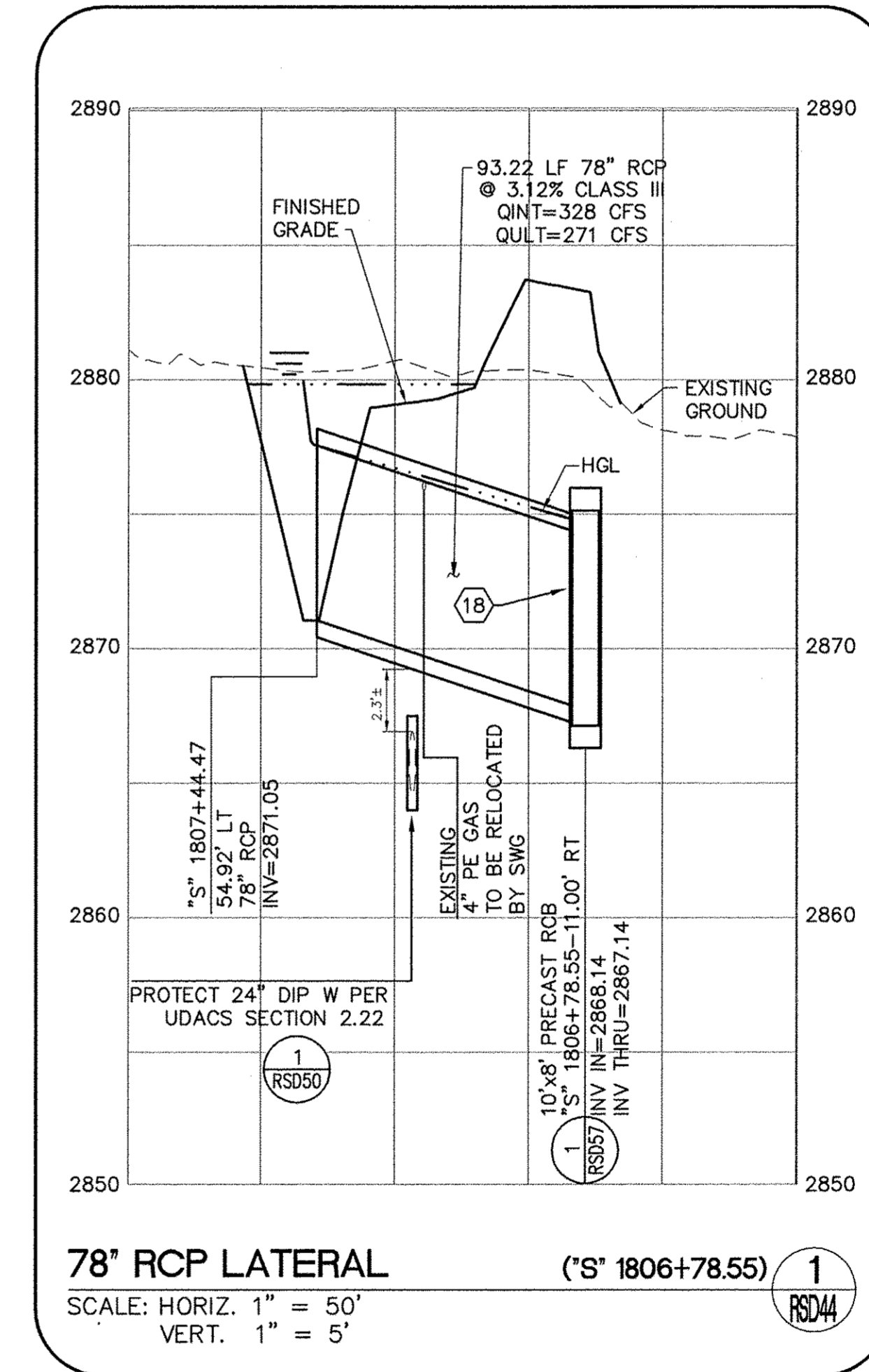
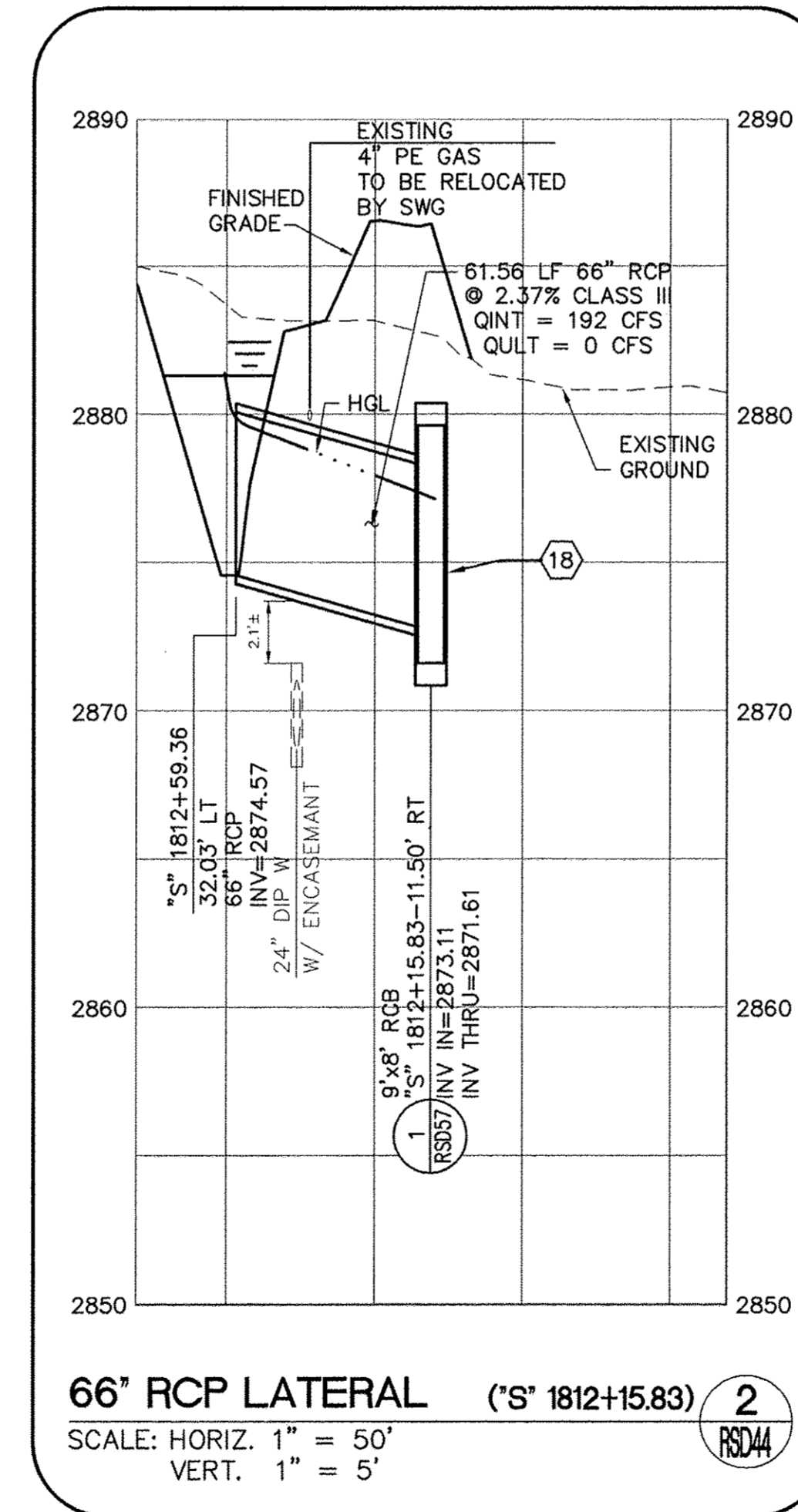
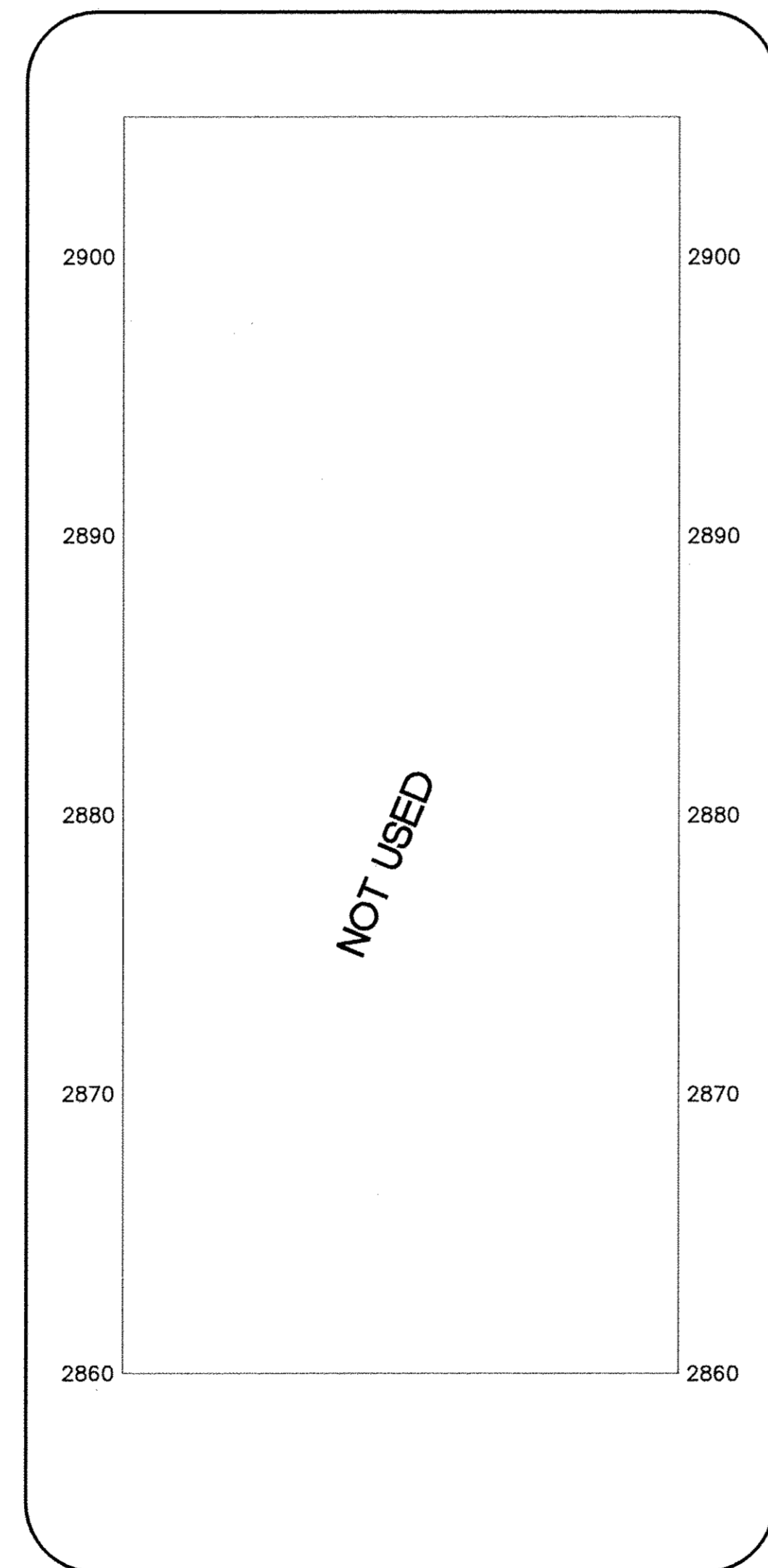
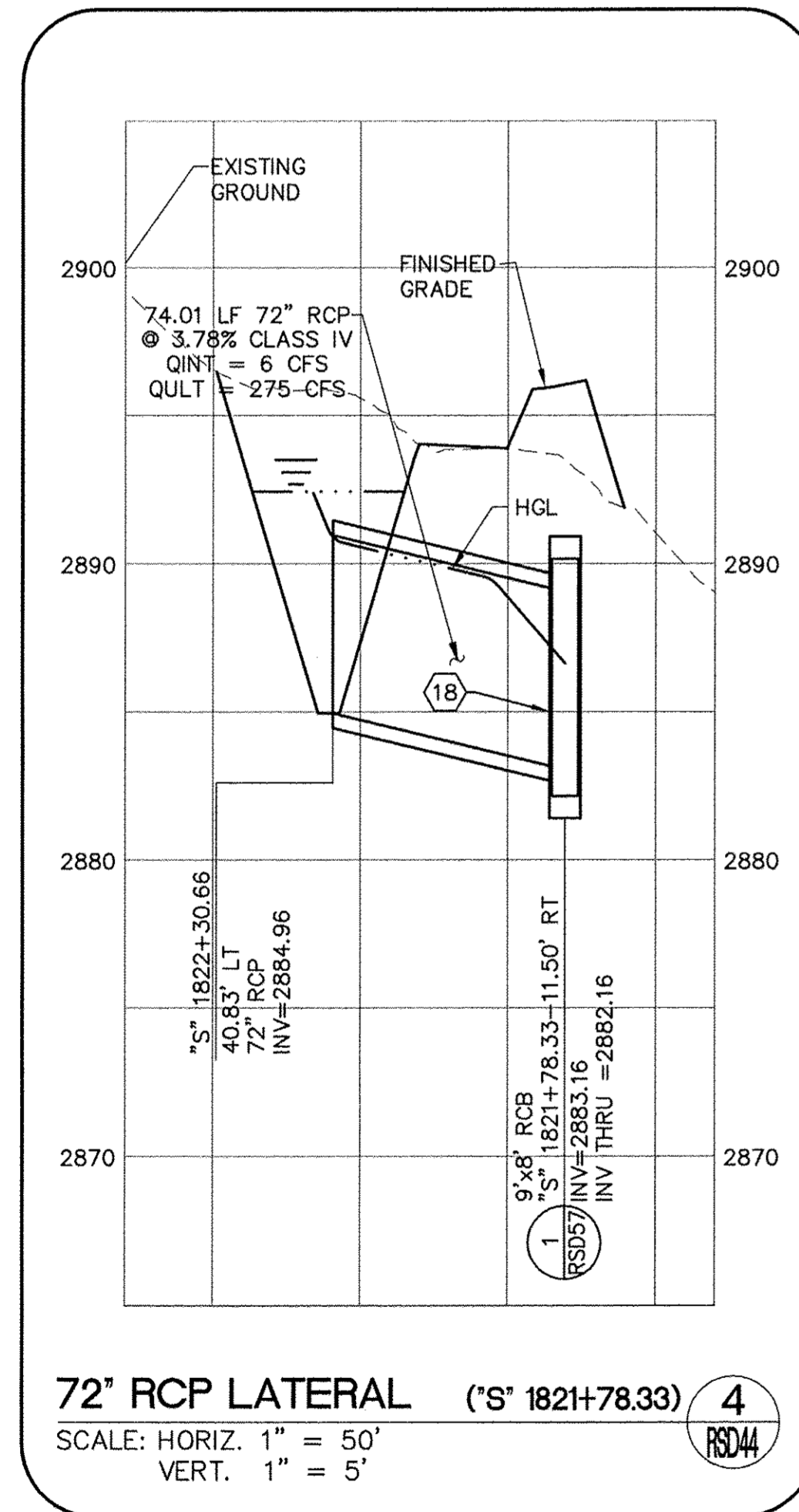
**CLARK COUNTY**  
 WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
 LATERALS  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

GRANT Y. TOKUMI  
 Exp. 06/30/2016  
 CIVIL  
 PROFESSIONAL ENGINEER  
 No. 15517  
 1/26/15

PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 - GCWALLACE.COM

SCALE  
 HORIZ: 1"=50'  
 VERT: 1"=5'  
 FIELD BOOK  
 CCPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD43**  
 SHT. 547 OF 600



**DISCLAIMER NOTE**

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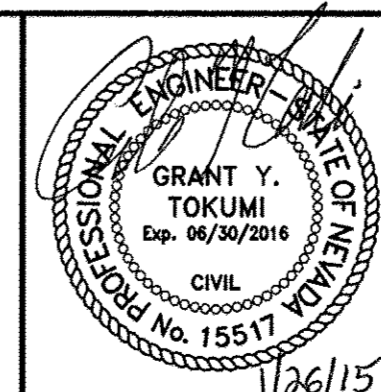


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY LATERALS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

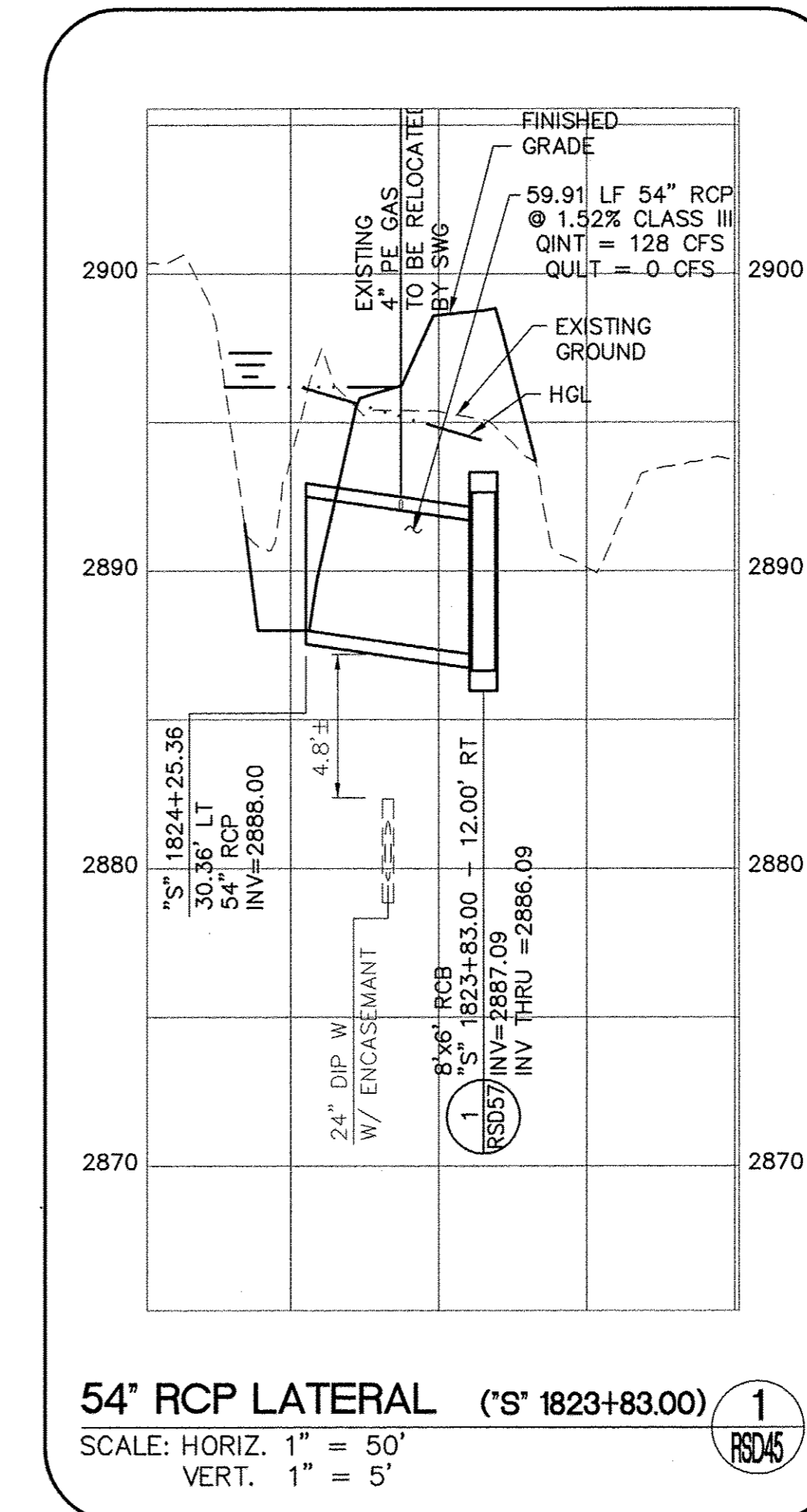
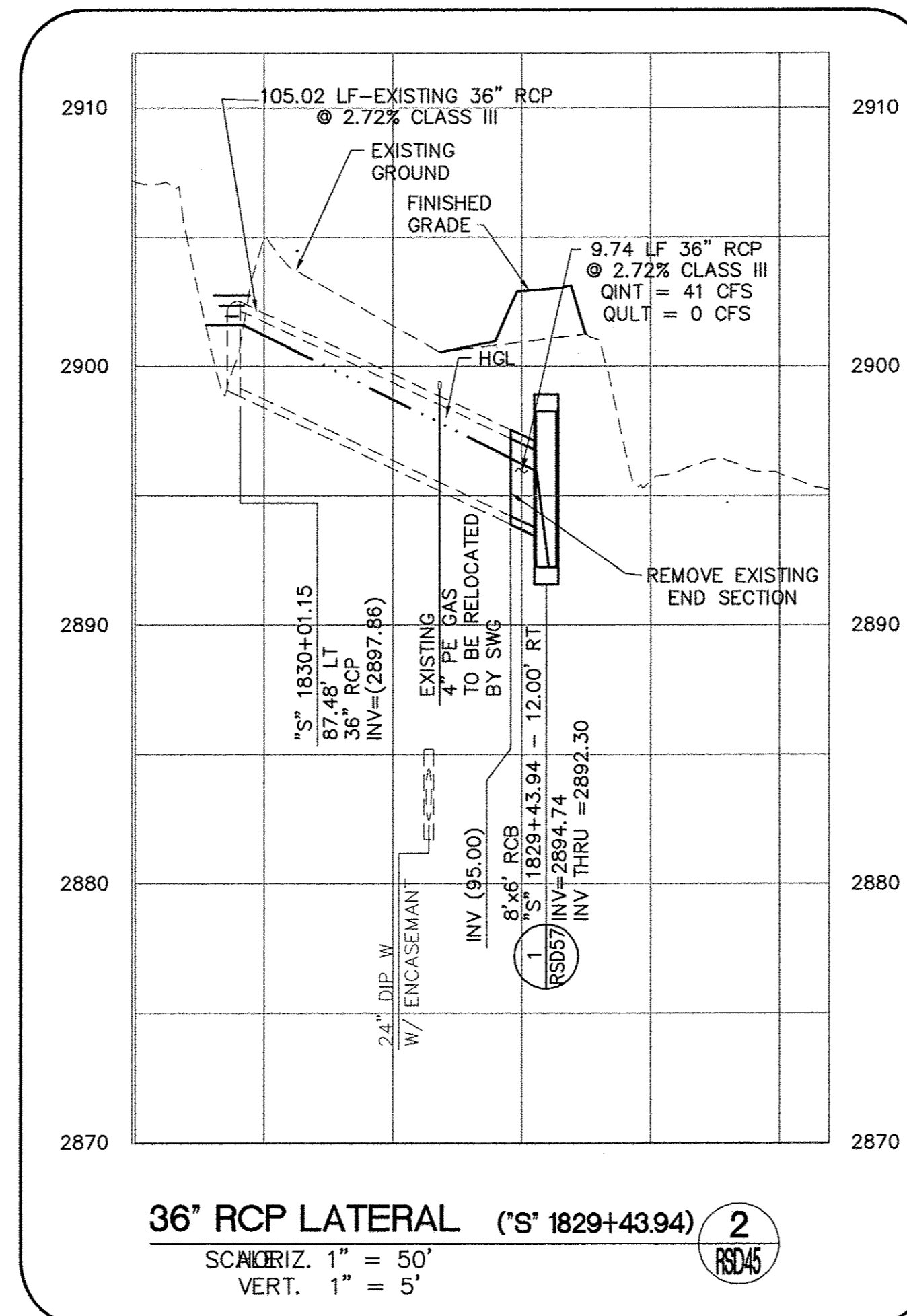


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	1"=50'	RSD44
VERT:	1"=5'	
FIELD BOOK		
CPW PROJECT #		
W.O. #:	2008-62	SHT. 548 OF 600

BID NO. 603576-15

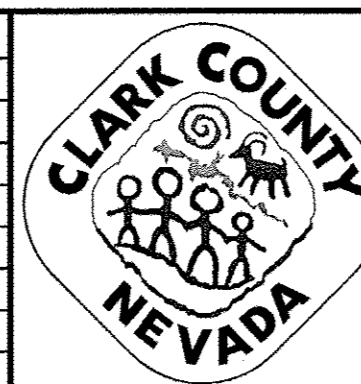


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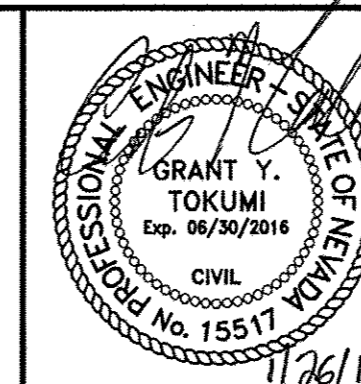


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
LATERALS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_

**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

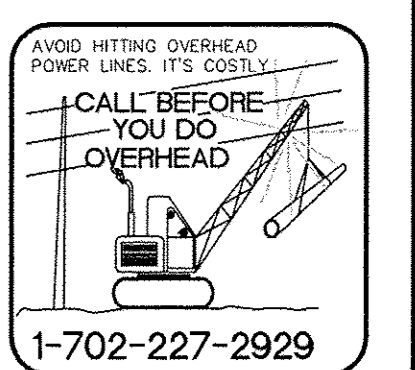
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	VERT: 1"=5'
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	RSD45
SHT. 549	OF 600

BID NO. 603576-15

**DISCLAIMER NOTE**

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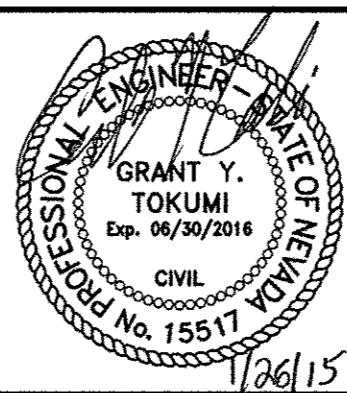


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
not used

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

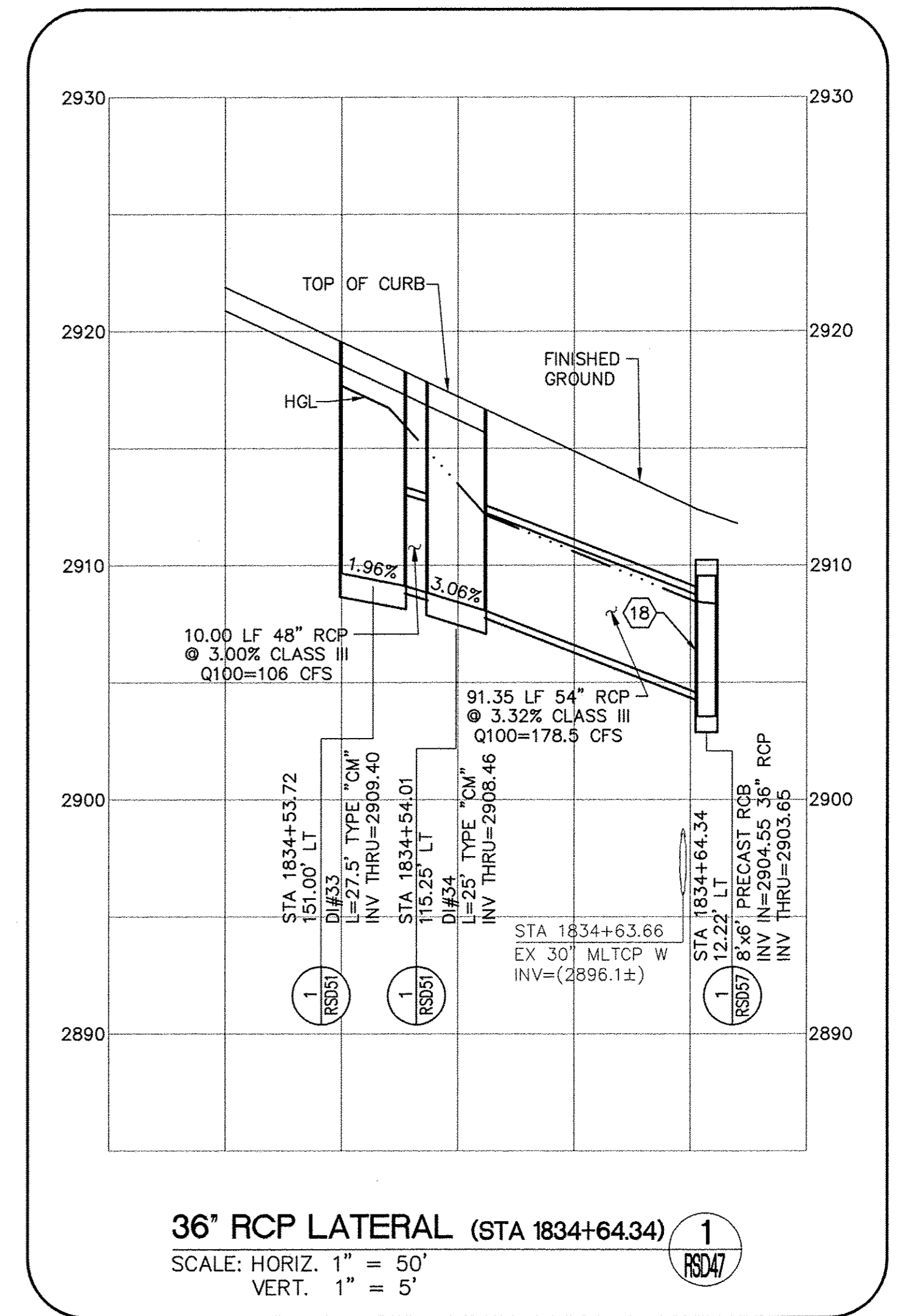
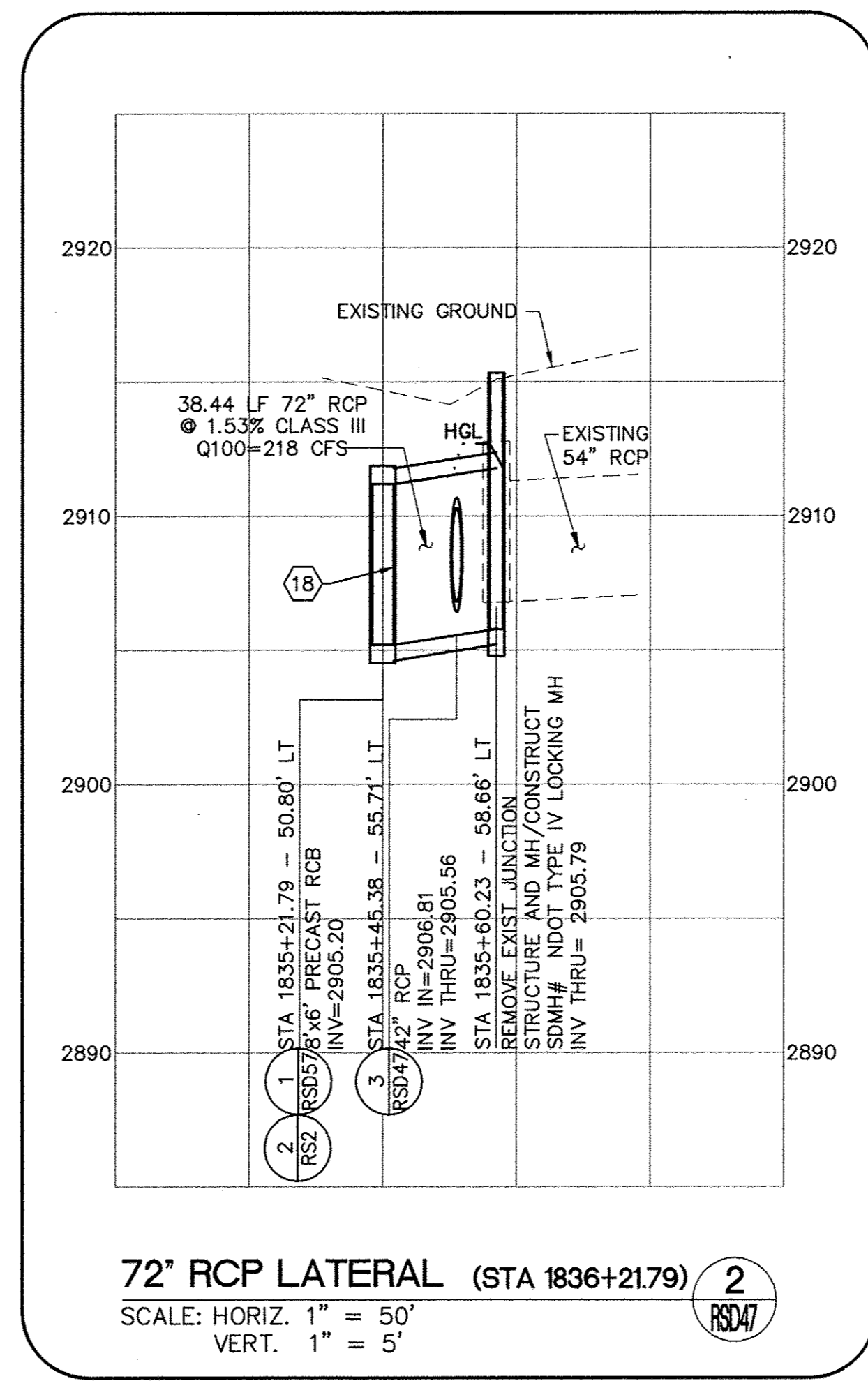
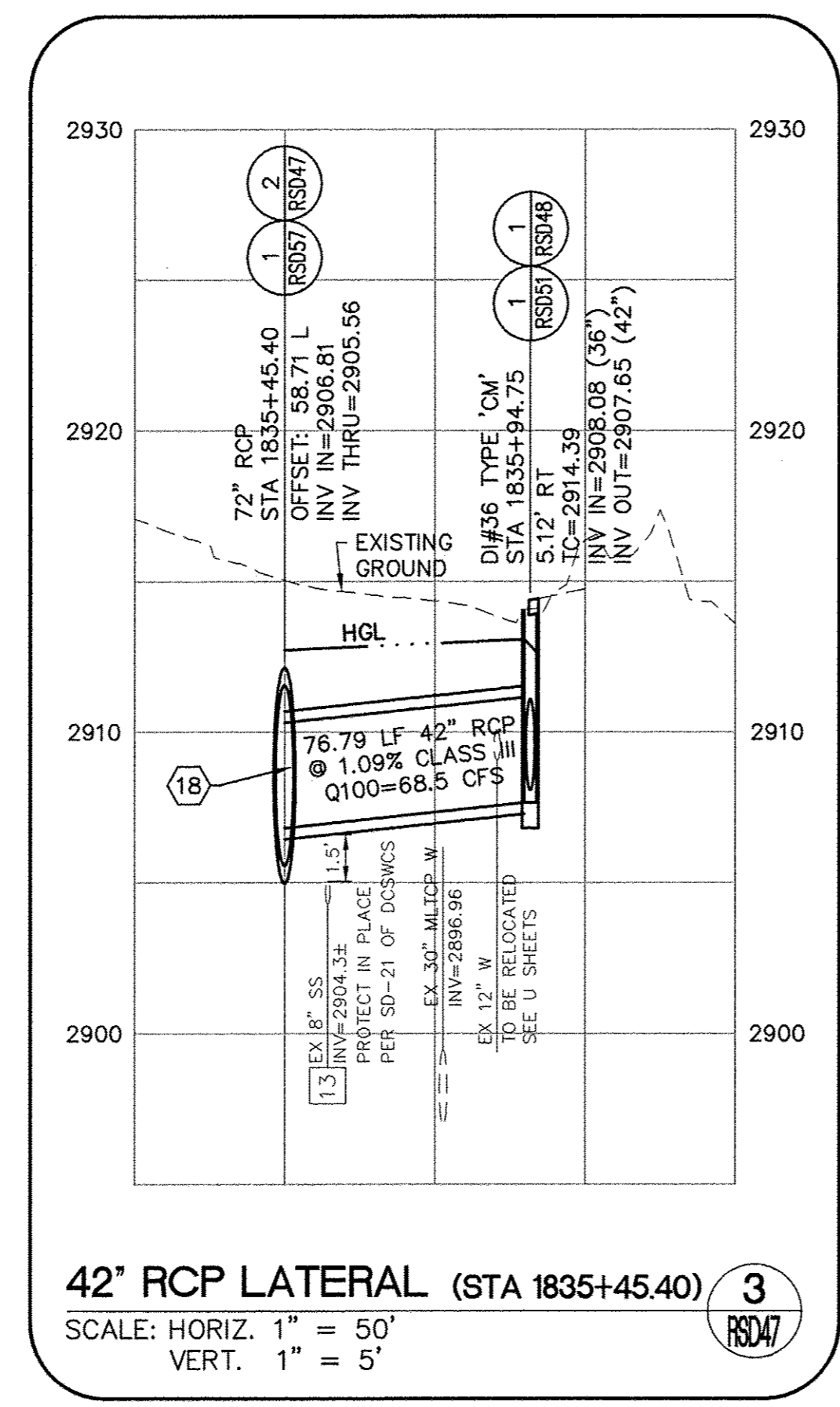
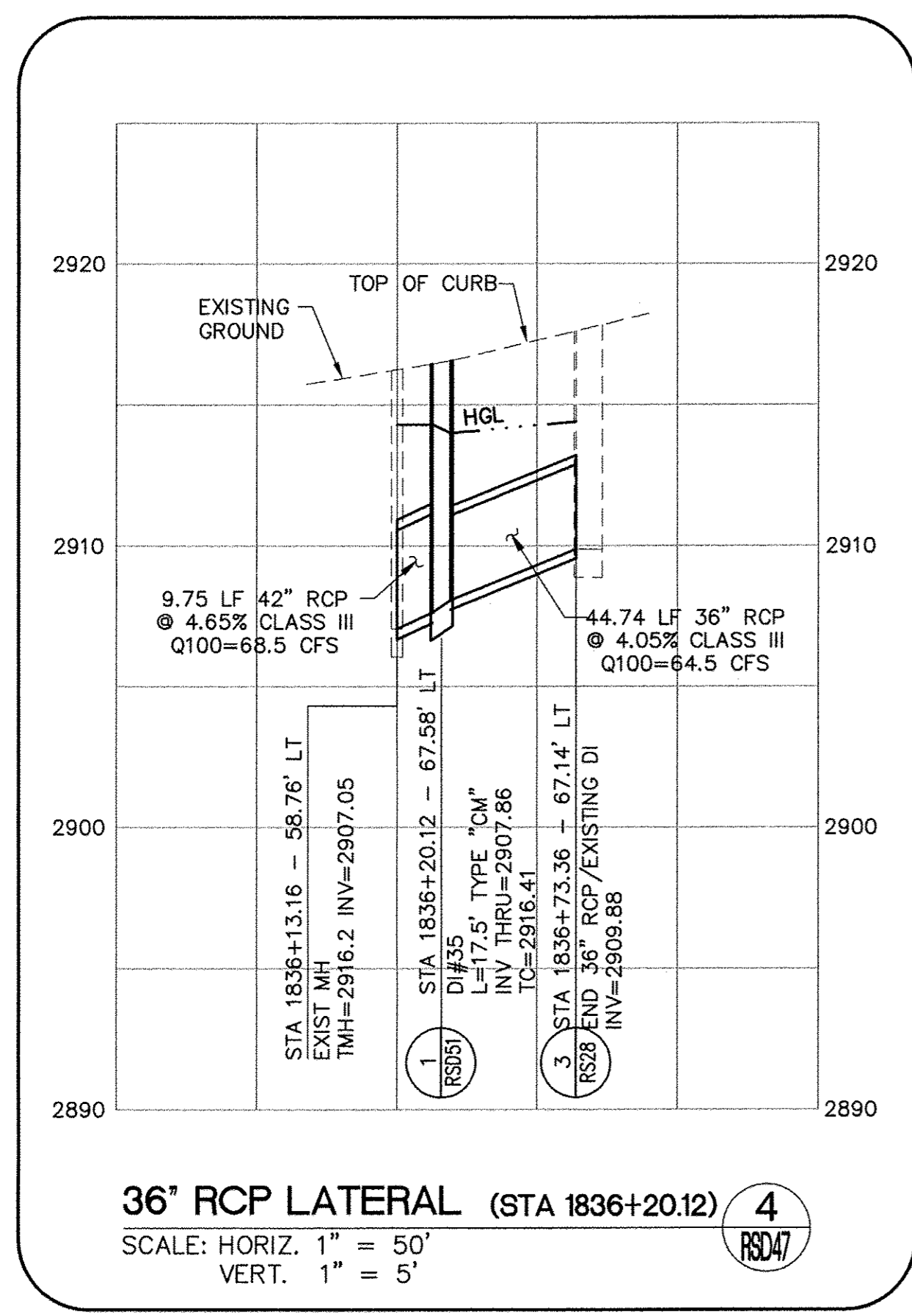


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE  
 HORIZ: 1"=50'  
 VERT: 1"=5'  
 FIELD BOOK  
 COPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RSD46**  
 SHT. 550 OF 600

BID. NO. 603576-15



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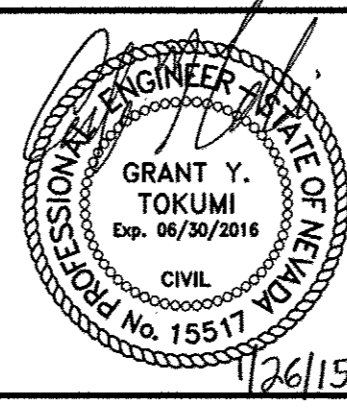


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY LATERALS**

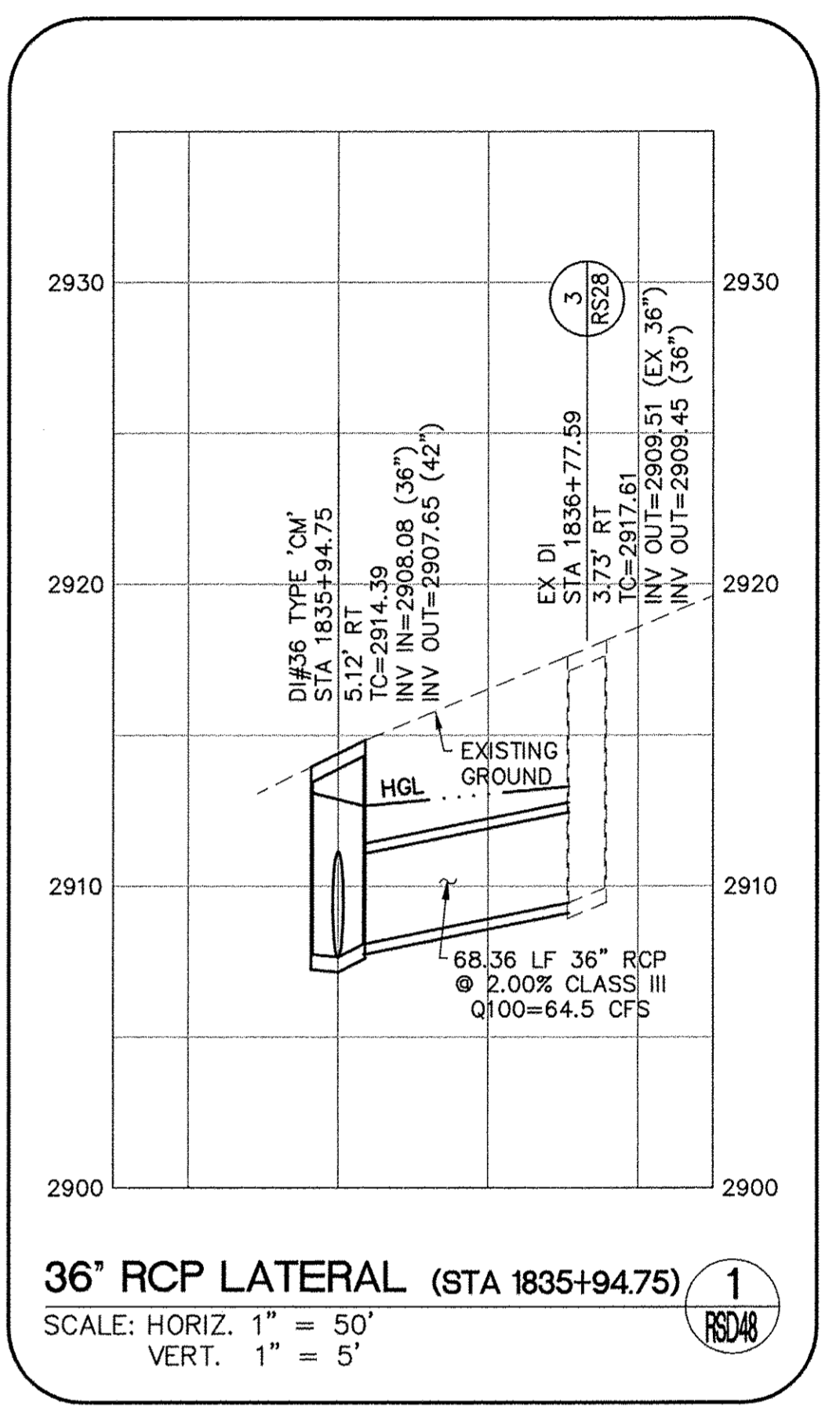
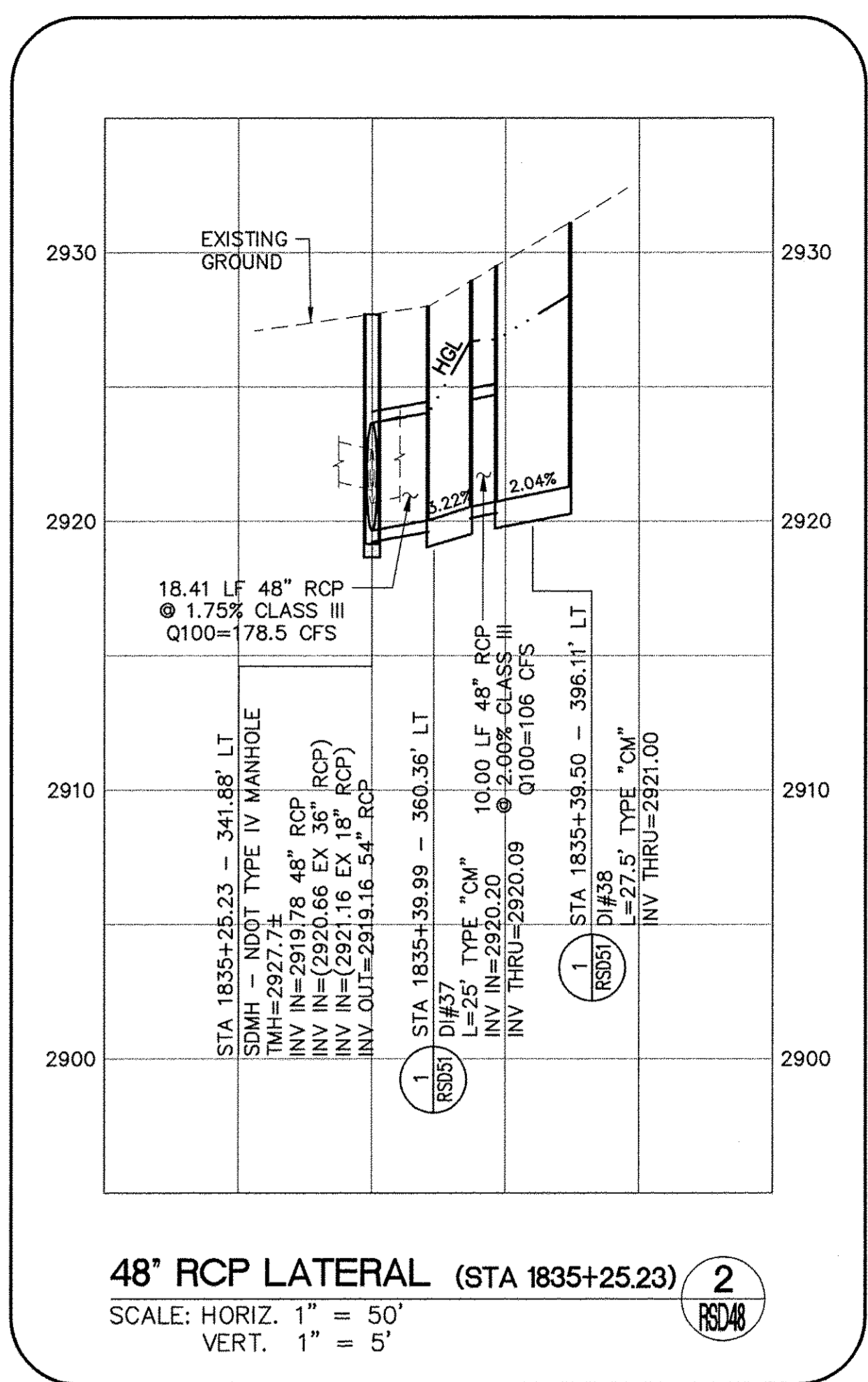
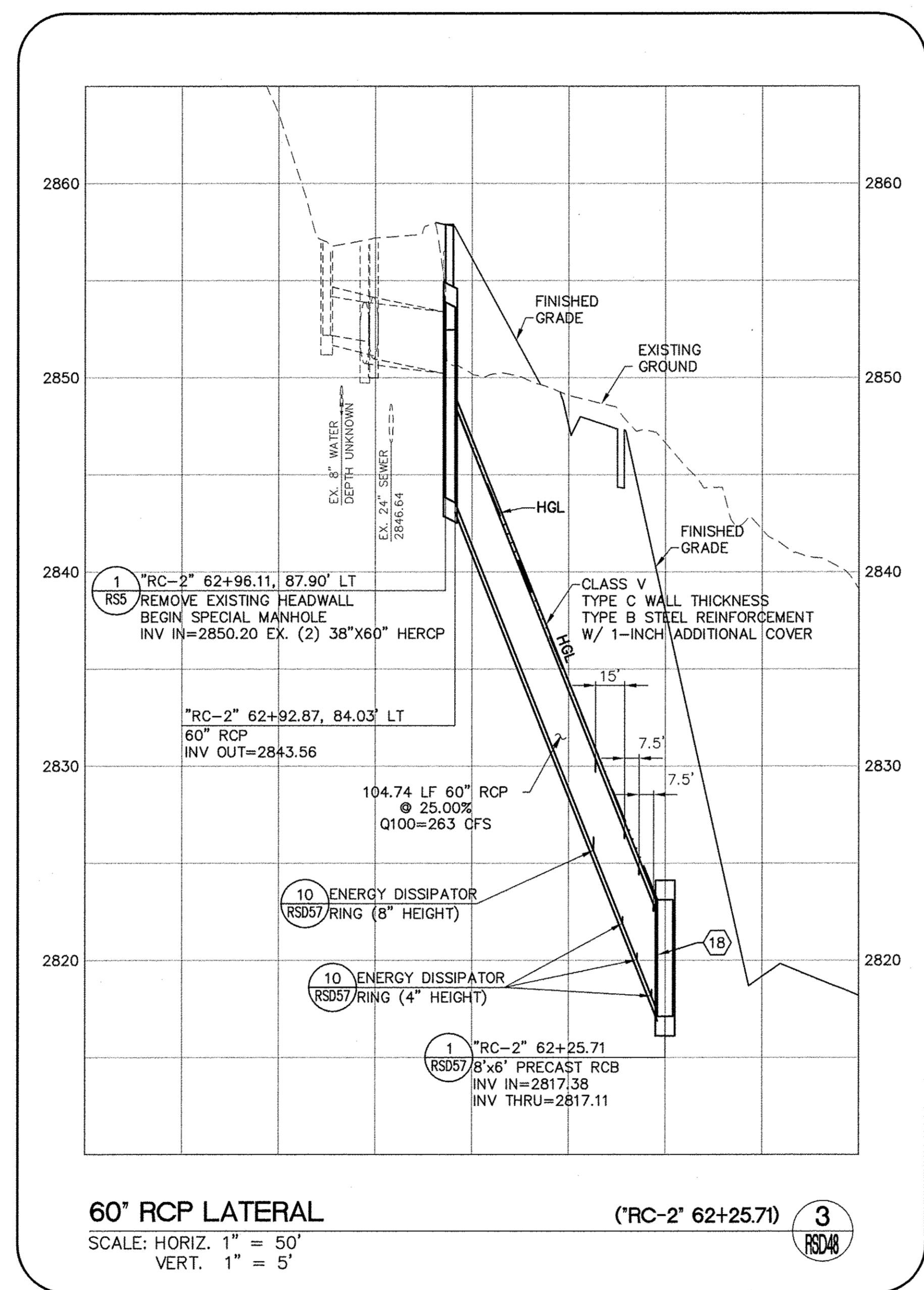
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE	
HORIZ:	1"=50'
VERT:	1"=5'
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO. **RSD47**  
 SHT. 551 OF 600



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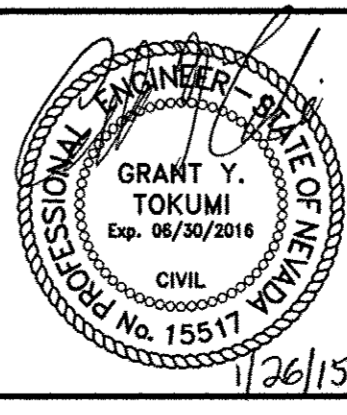


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY LATERALS**

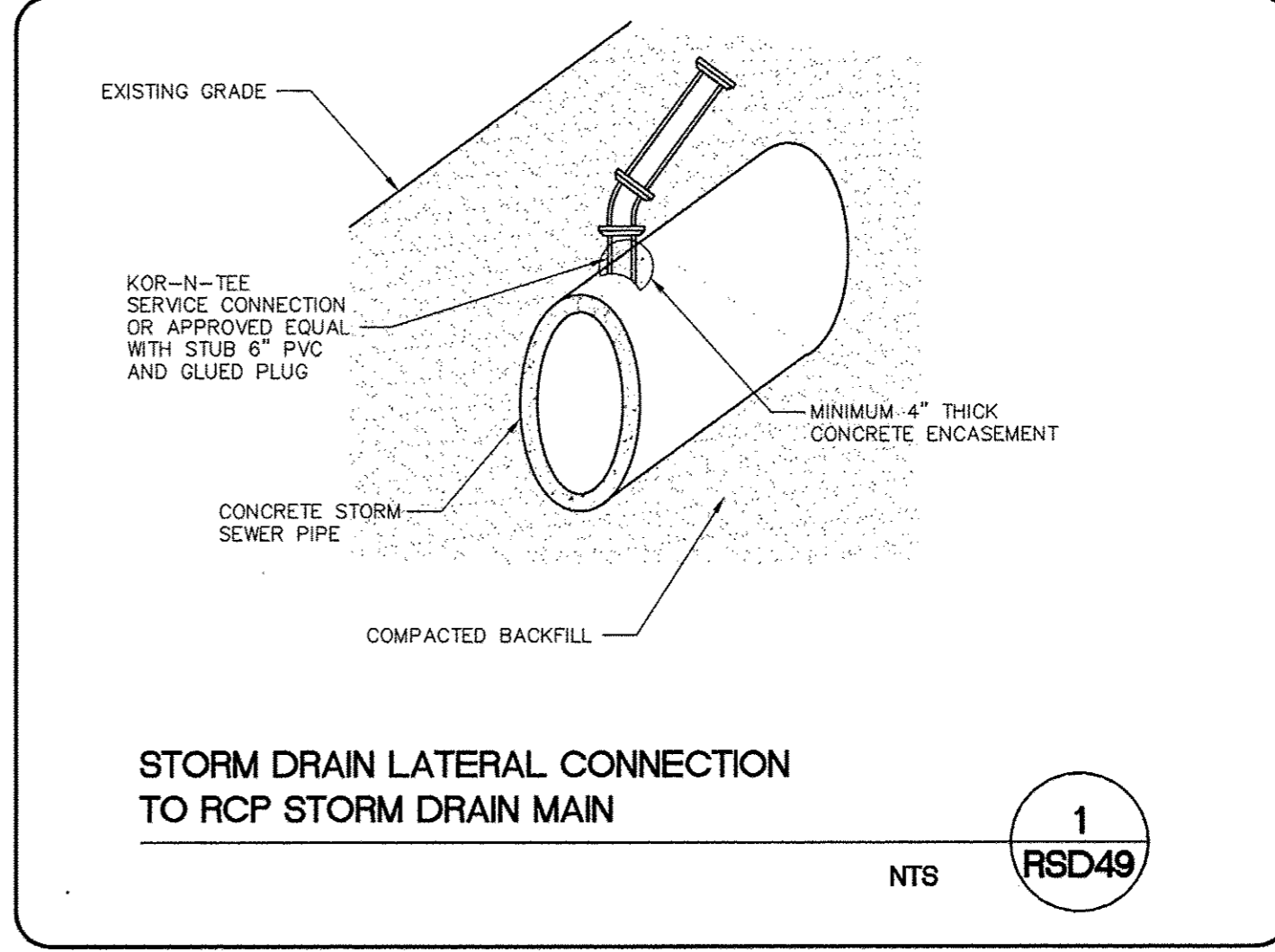
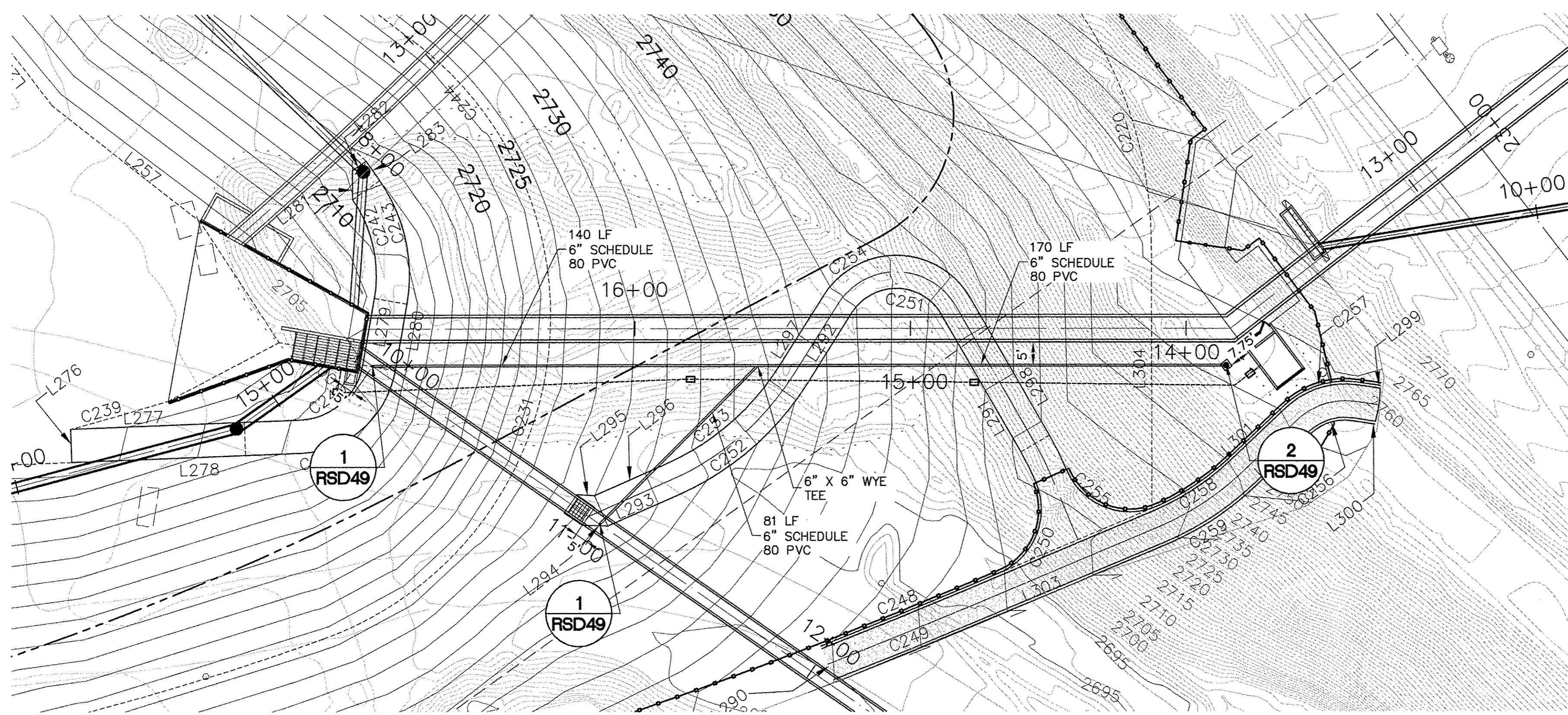
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



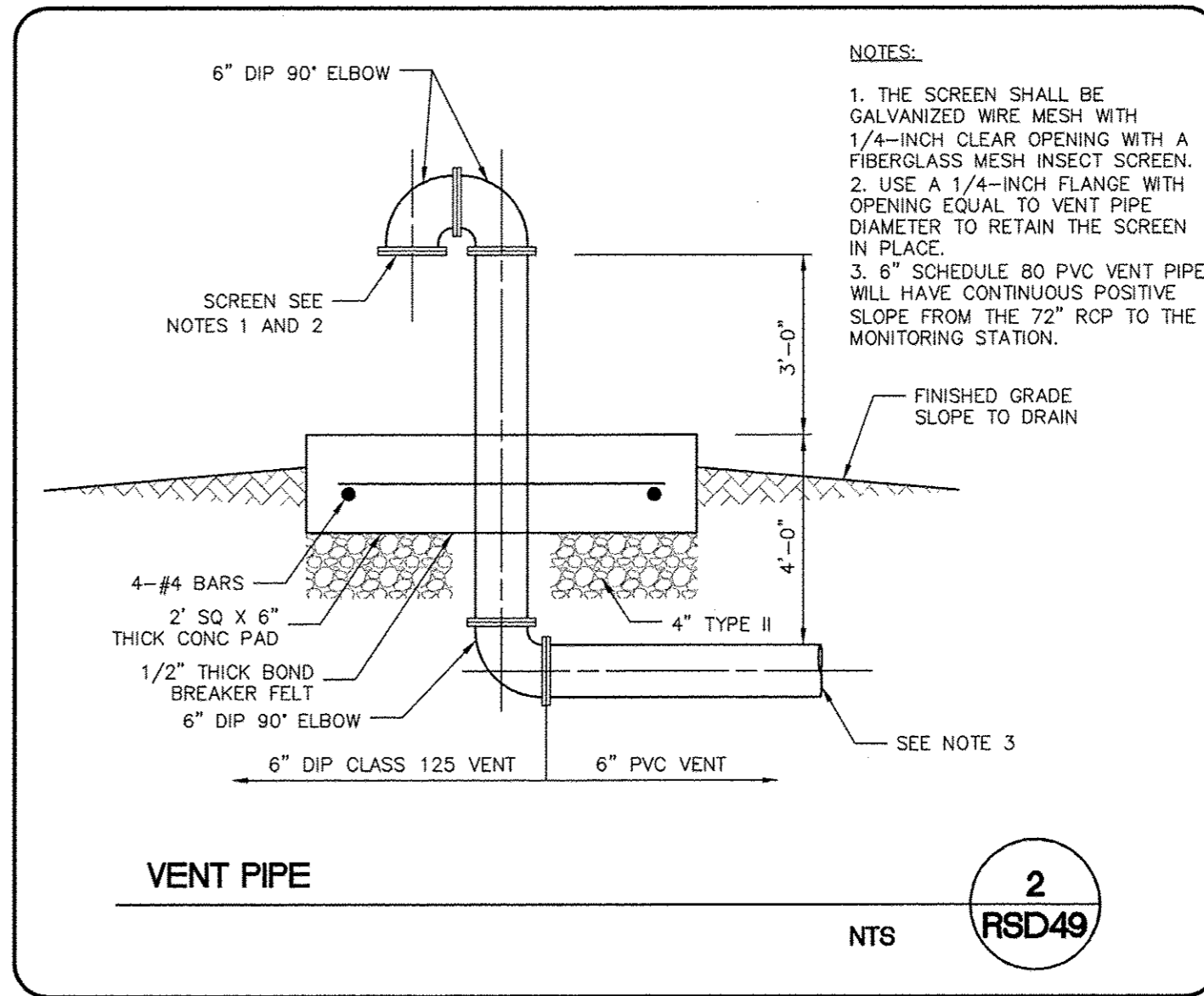
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE  
 HORIZ: 1"=50'  
 VERT: 1"=5'  
 FIELD BOOK  
 COPW PROJECT #  
 W.O. #: 2008-62

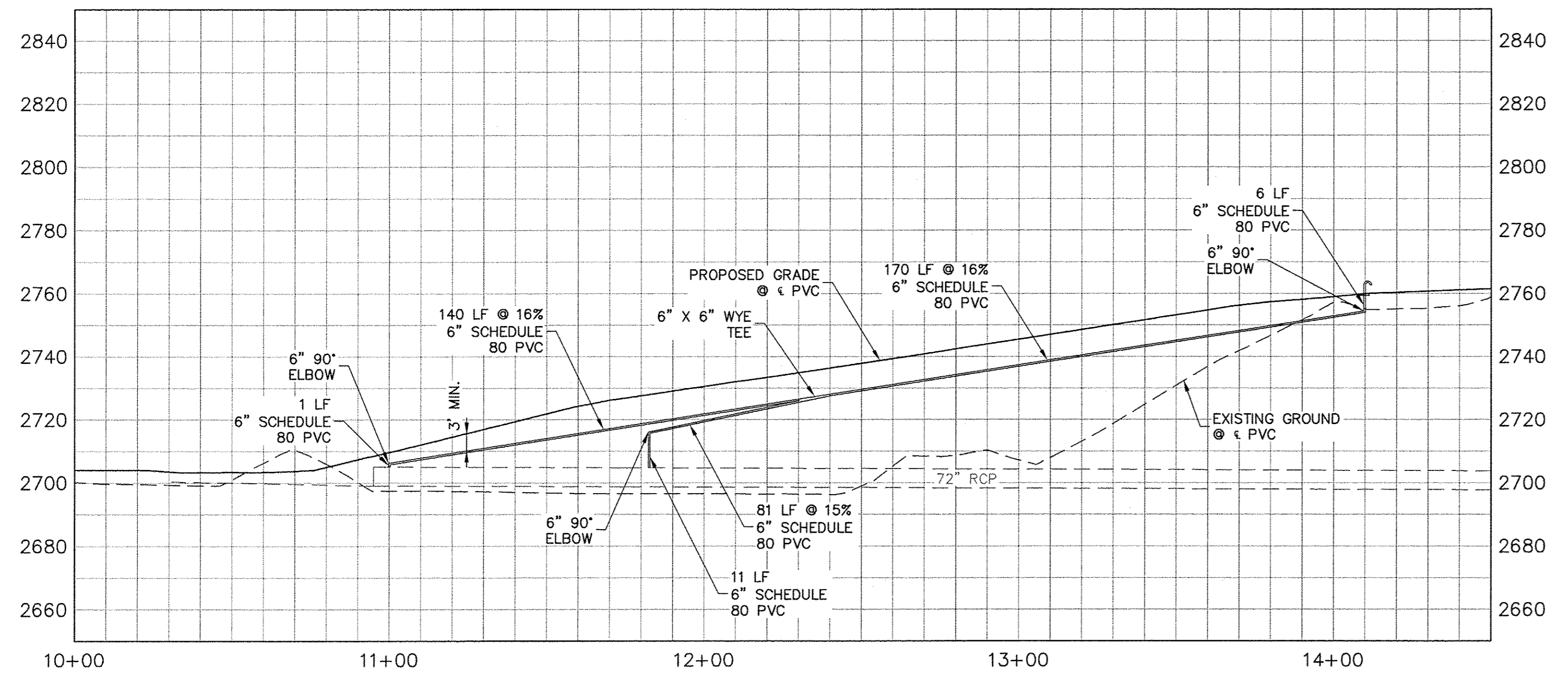
DRAWING NO.  
**RSD48**  
 SHT. 552 OF 500



**NOTE:**  
SEE SHEET RG5-RG6 FOR LINE, CURVE AND COORDINATE CALL-OUTS FOR ALL ALIGNMENTS AND POINT NUMBERS. SEE SHEET RG2 FOR CONSTRUCTION AND REMOVAL NOTES.

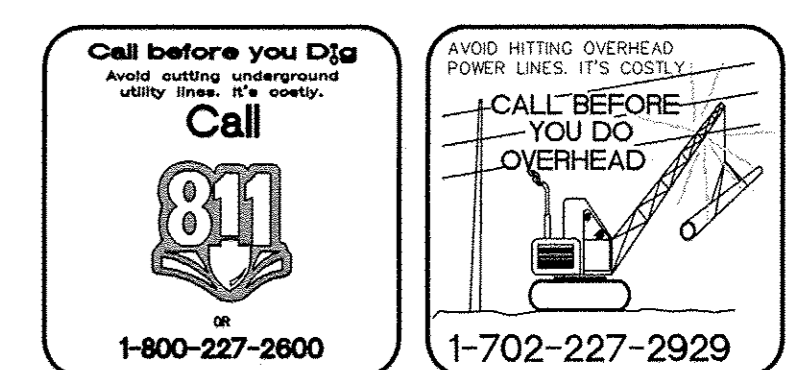


**NOTES:**  
1. THE SCREEN SHALL BE GALVANIZED WIRE MESH WITH 1/4-INCH CLEAR OPENING WITH A FIBERGLASS MESH INSECT SCREEN.  
2. USE A 1/4-INCH FLANGE WITH OPENING EQUAL TO VENT PIPE DIAMETER TO RETAIN THE SCREEN IN PLACE.  
3. 6" SCHEDULE 80 PVC VENT PIPE WILL HAVE CONTINUOUS POSITIVE SLOPE FROM THE 72" RCP TO THE MONITORING STATION.



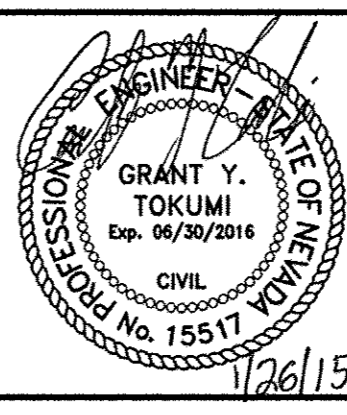
**DISCLAIMER NOTE**

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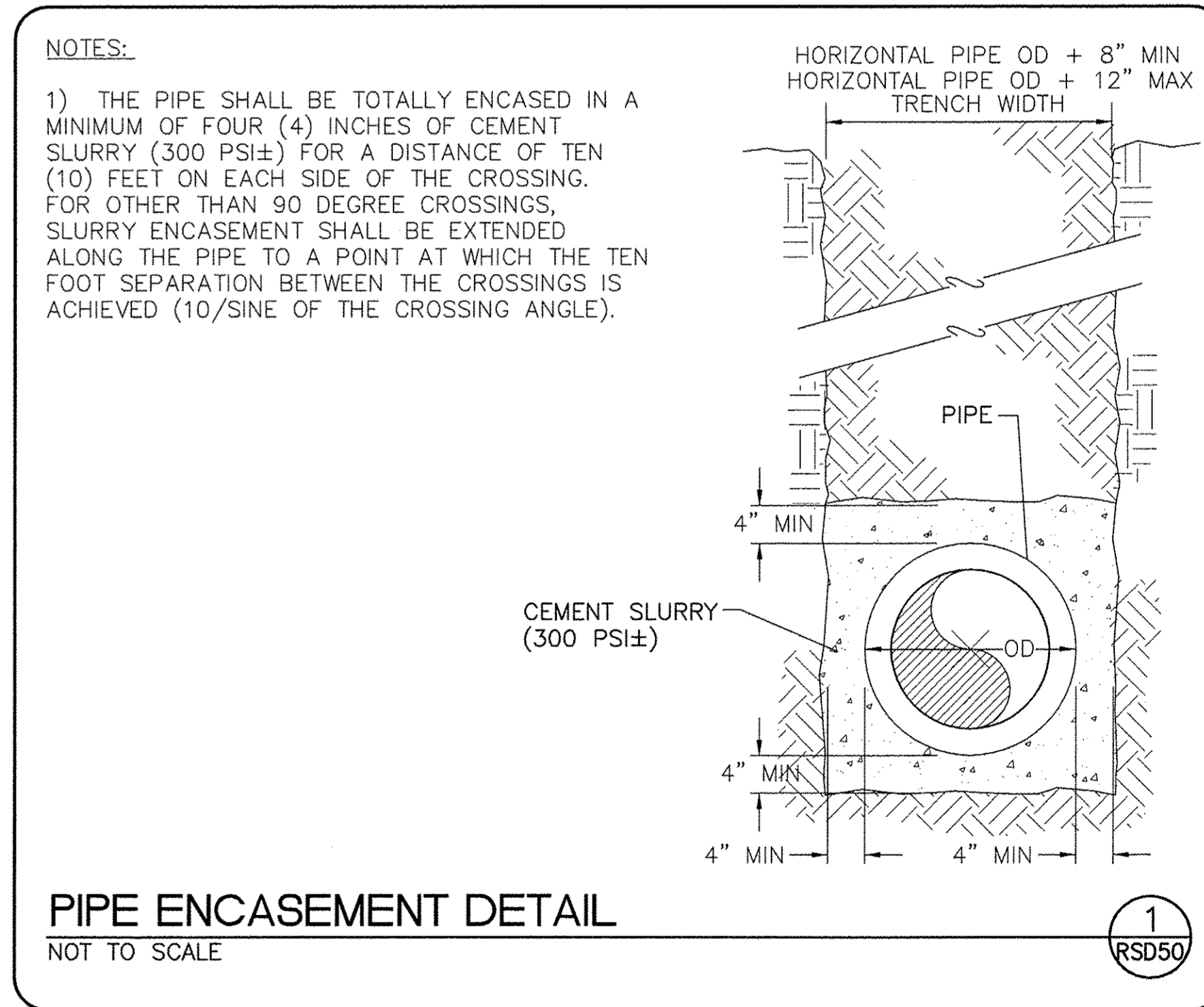
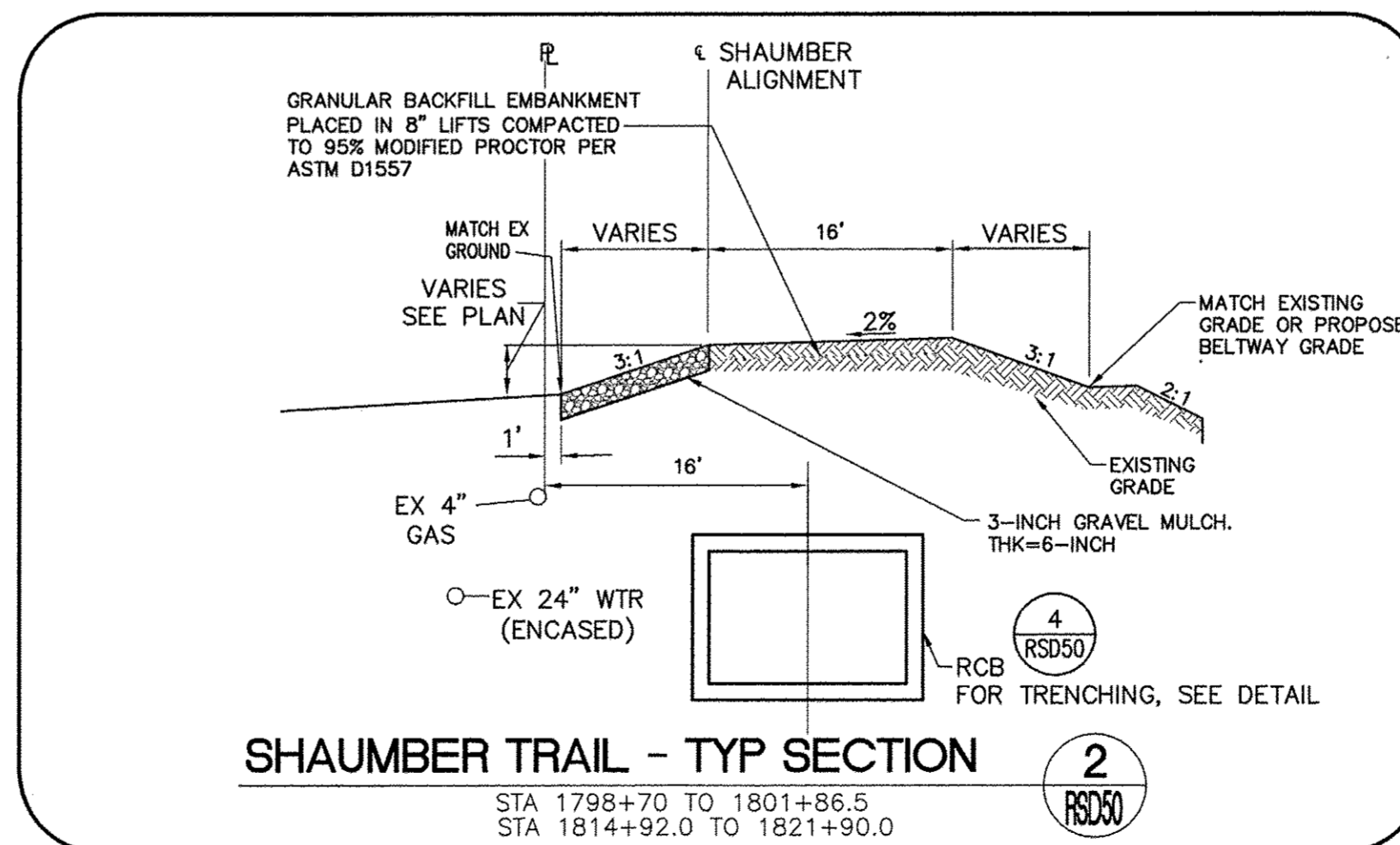
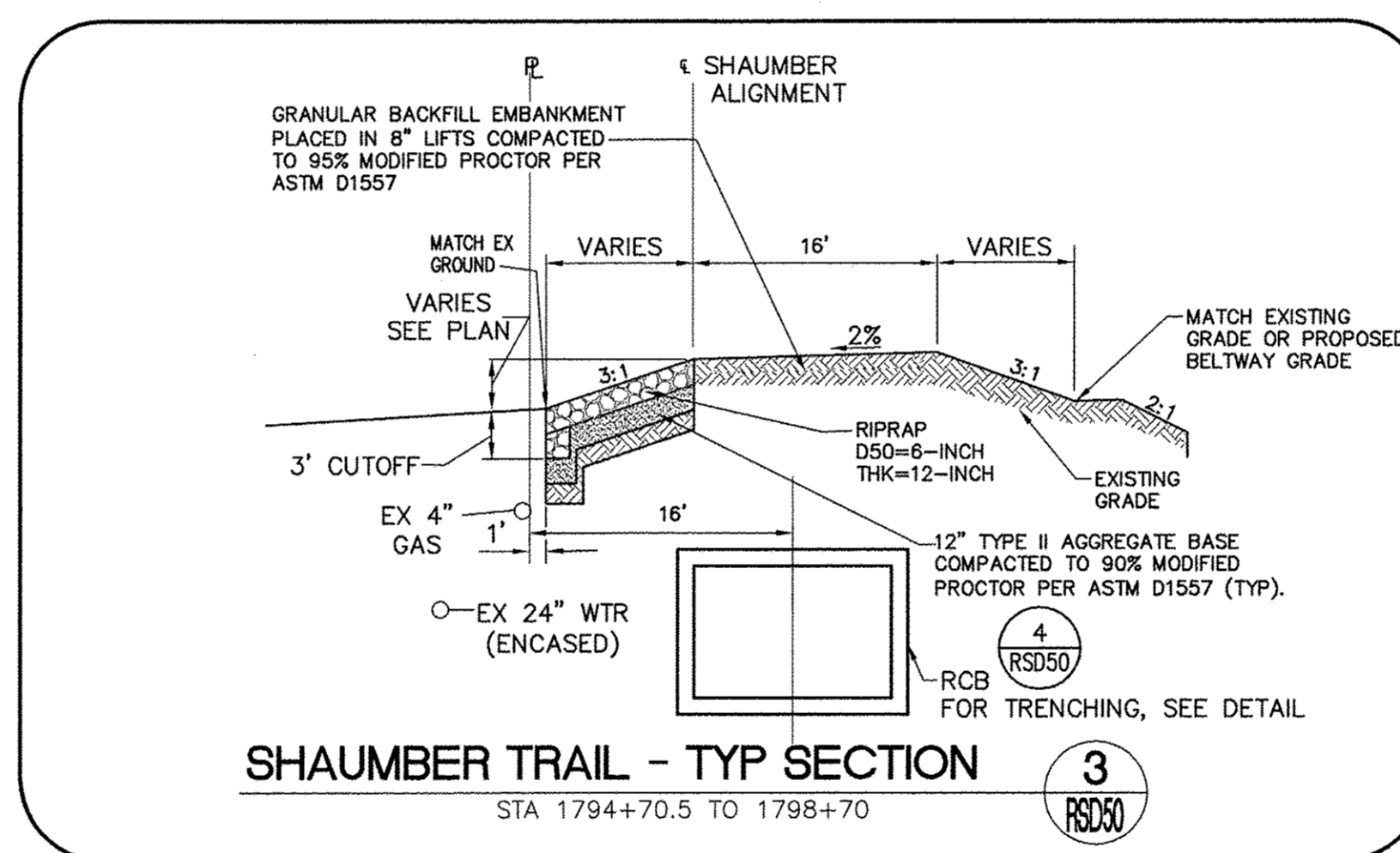
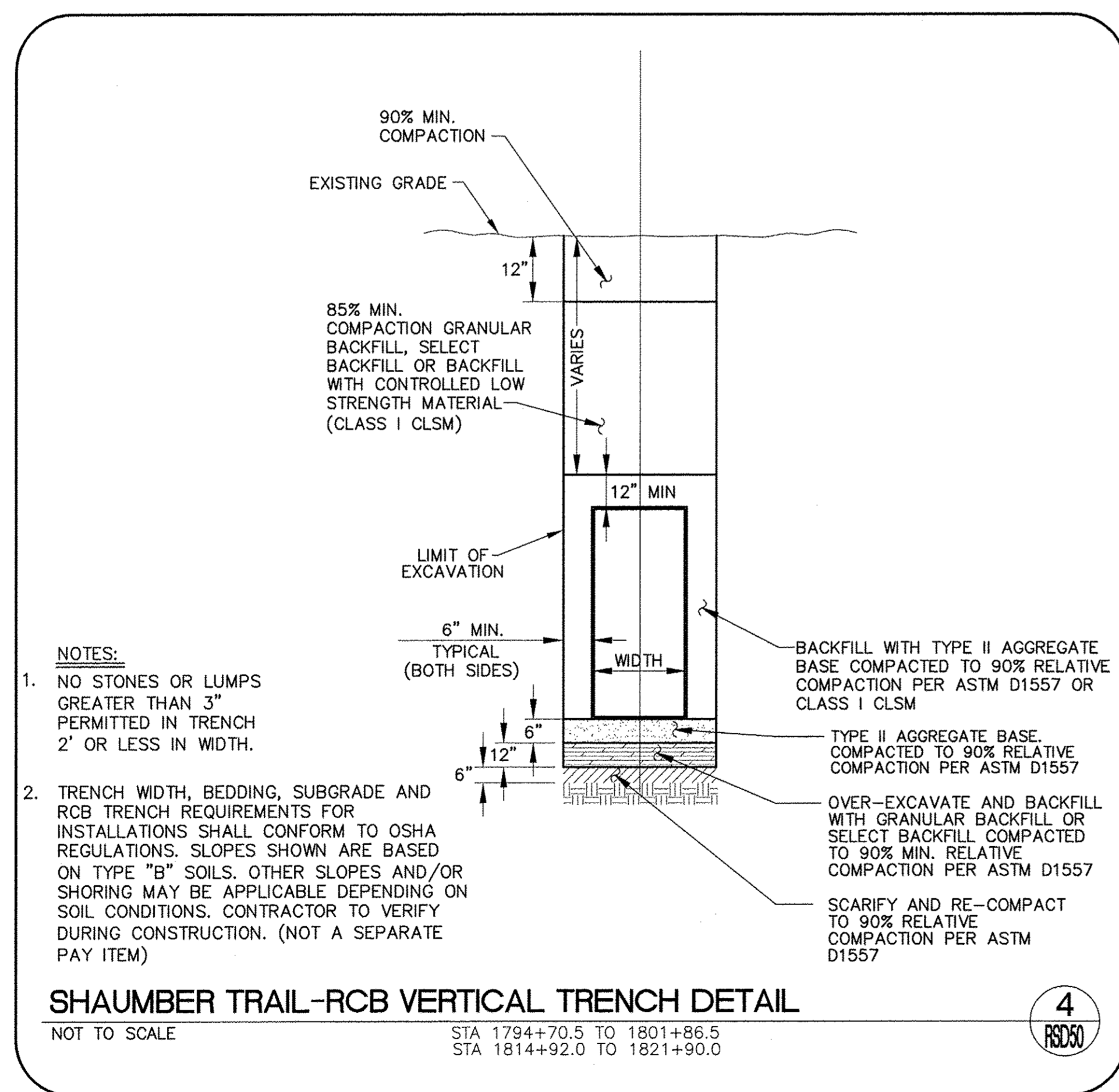
REV. NO.	DATE	DESCRIPTION	APPROVED

**CLARK COUNTY**  
WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
VENT PIPE PLAN AND PROFILE  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

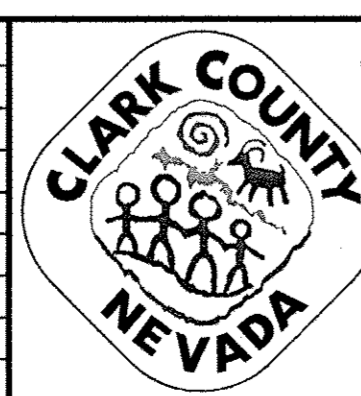


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE	HORIZ: AS SHOWN	DRAWING NO.
	VERT: NONE	<b>RSD49</b>
FIELD BOOK		
COPW PROJECT #		
W.O. #: 2008-62		SHT. 553 OF 600

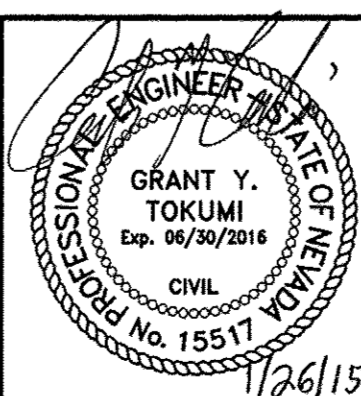


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

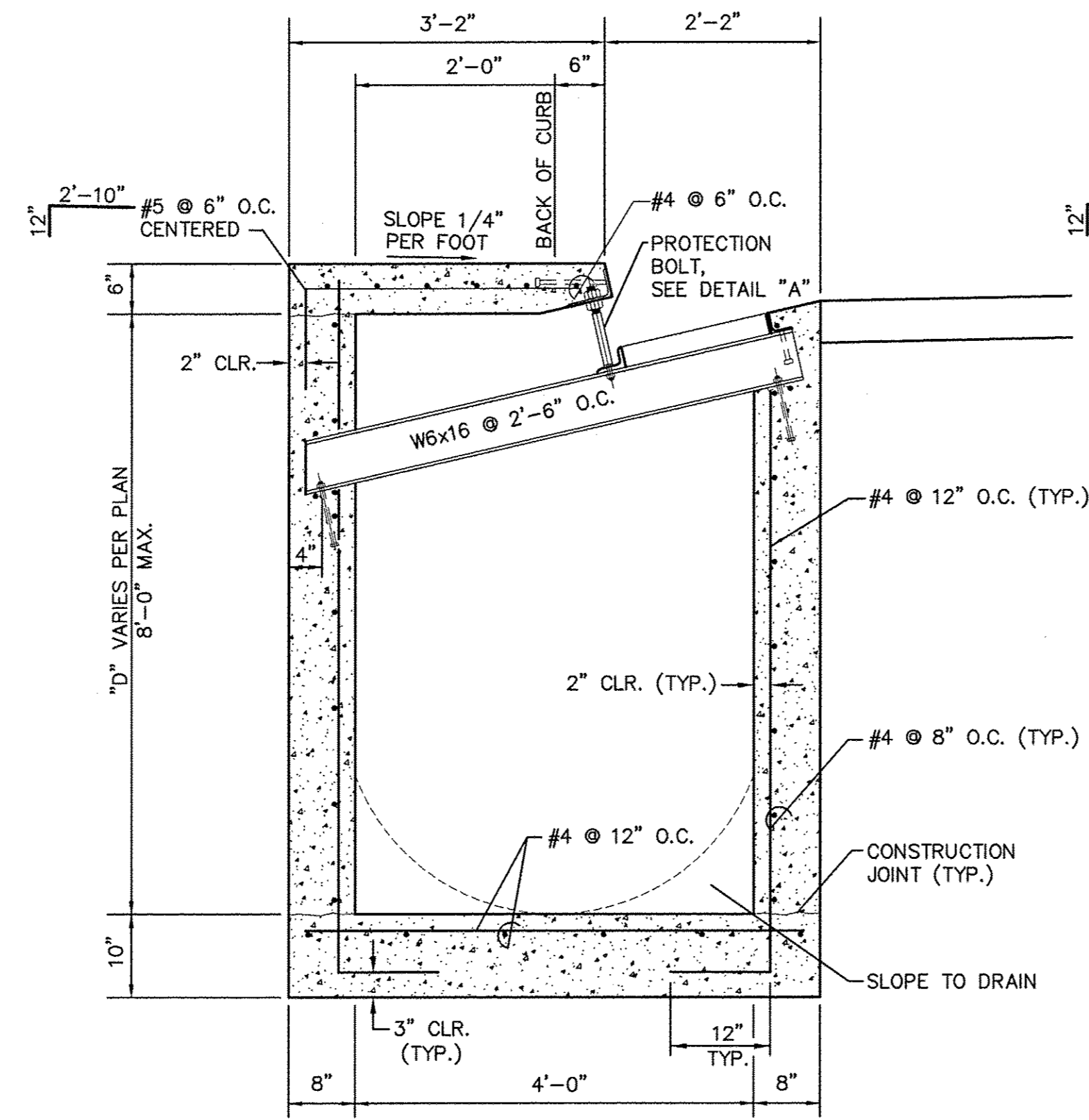


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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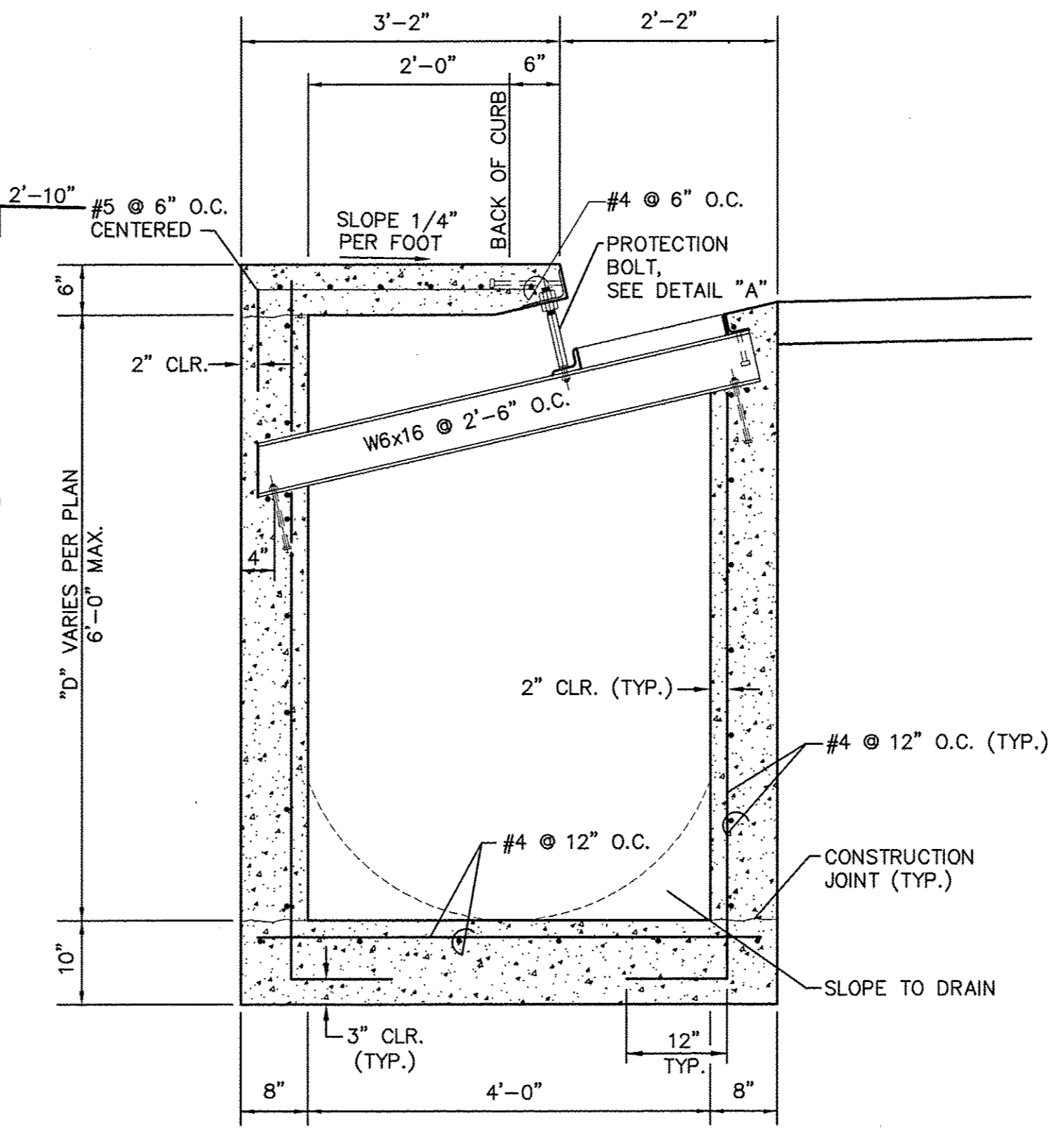
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HORIZ:	AS SHOWN	RSD50
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FIELD BOOK		SHT. 554 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

END NO. 603576-15

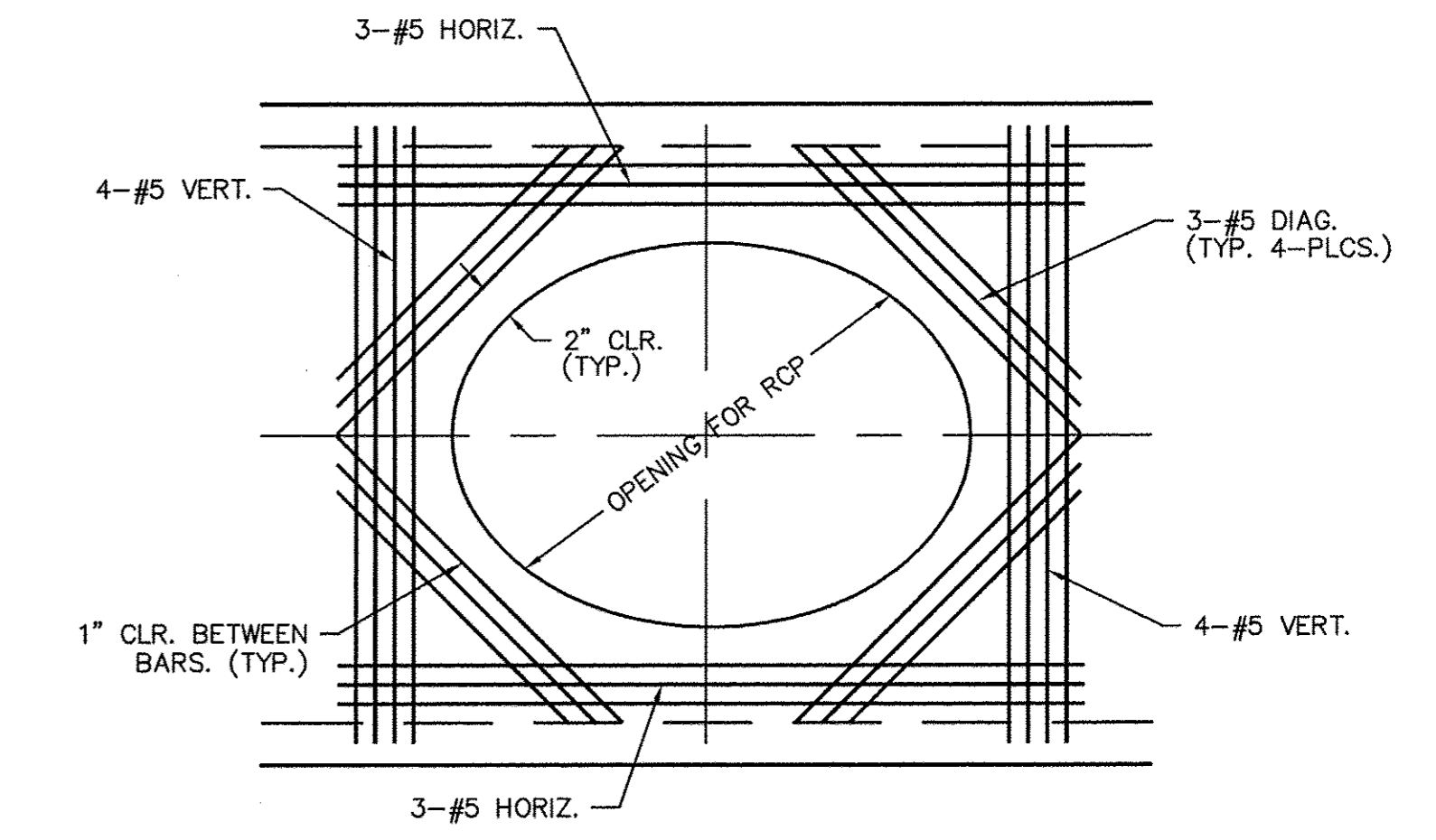




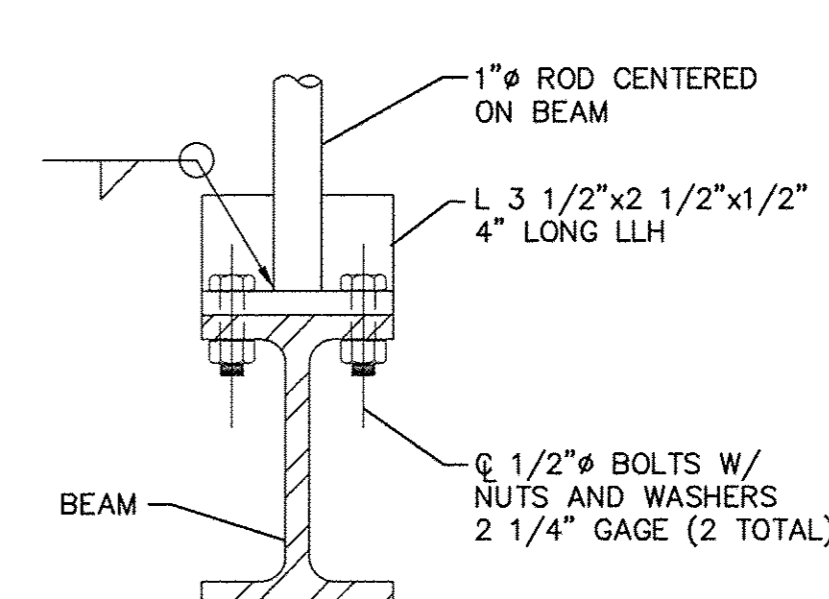
**TYPE "CM" DROP INLET SECTION**  
(6' TO 8' DEEP)  
SCALE 3/4"=1'



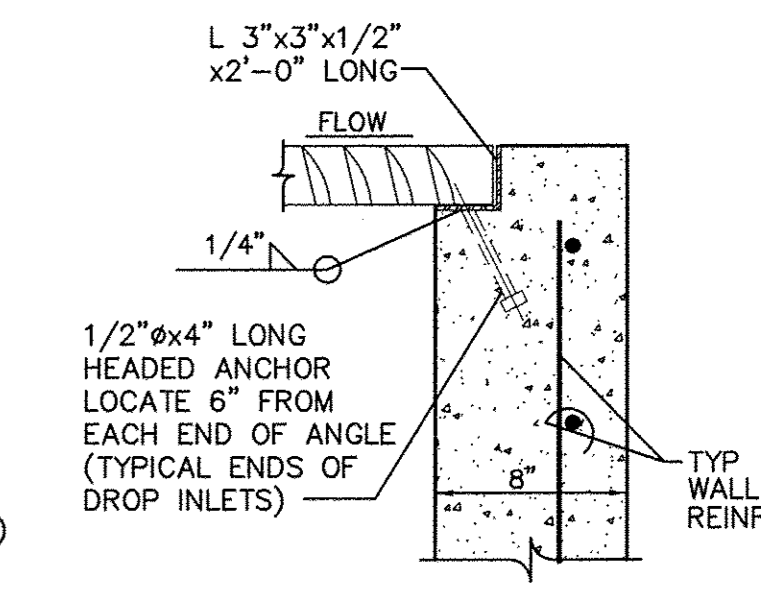
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(6' DEEP MAX.)  
SCALE 3/4"=1'



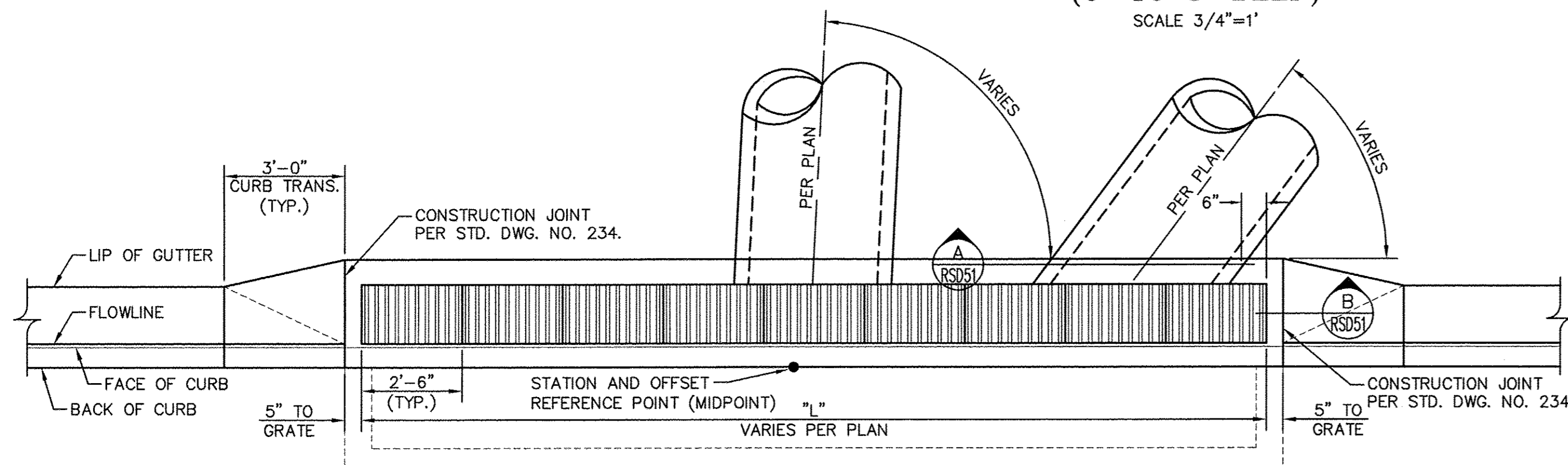
**SECTION "A"**  
SCALE 3/4"=1'



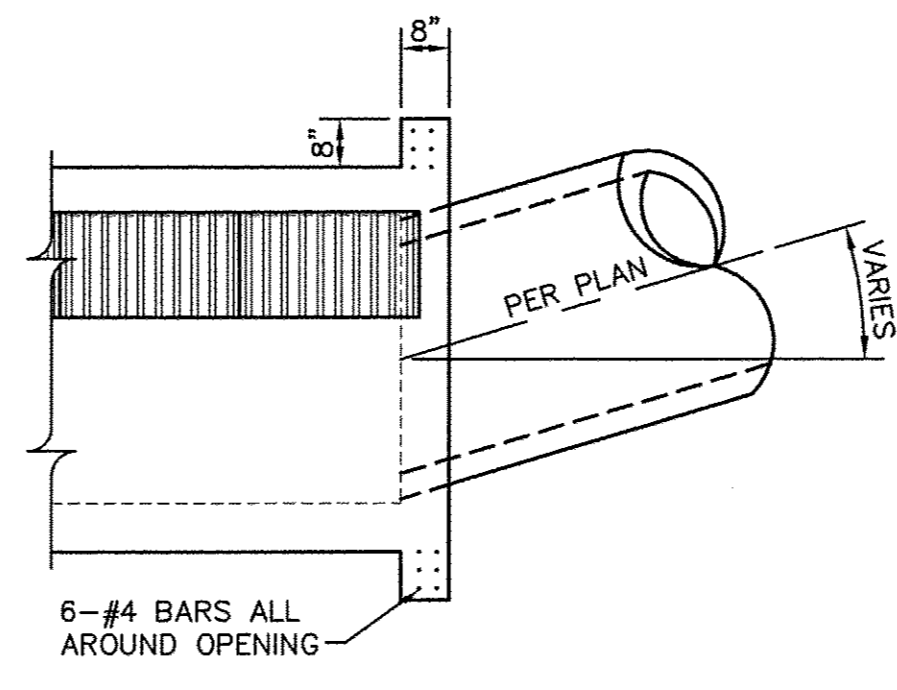
**DETAIL "B"**  
SCALE 3"=1'



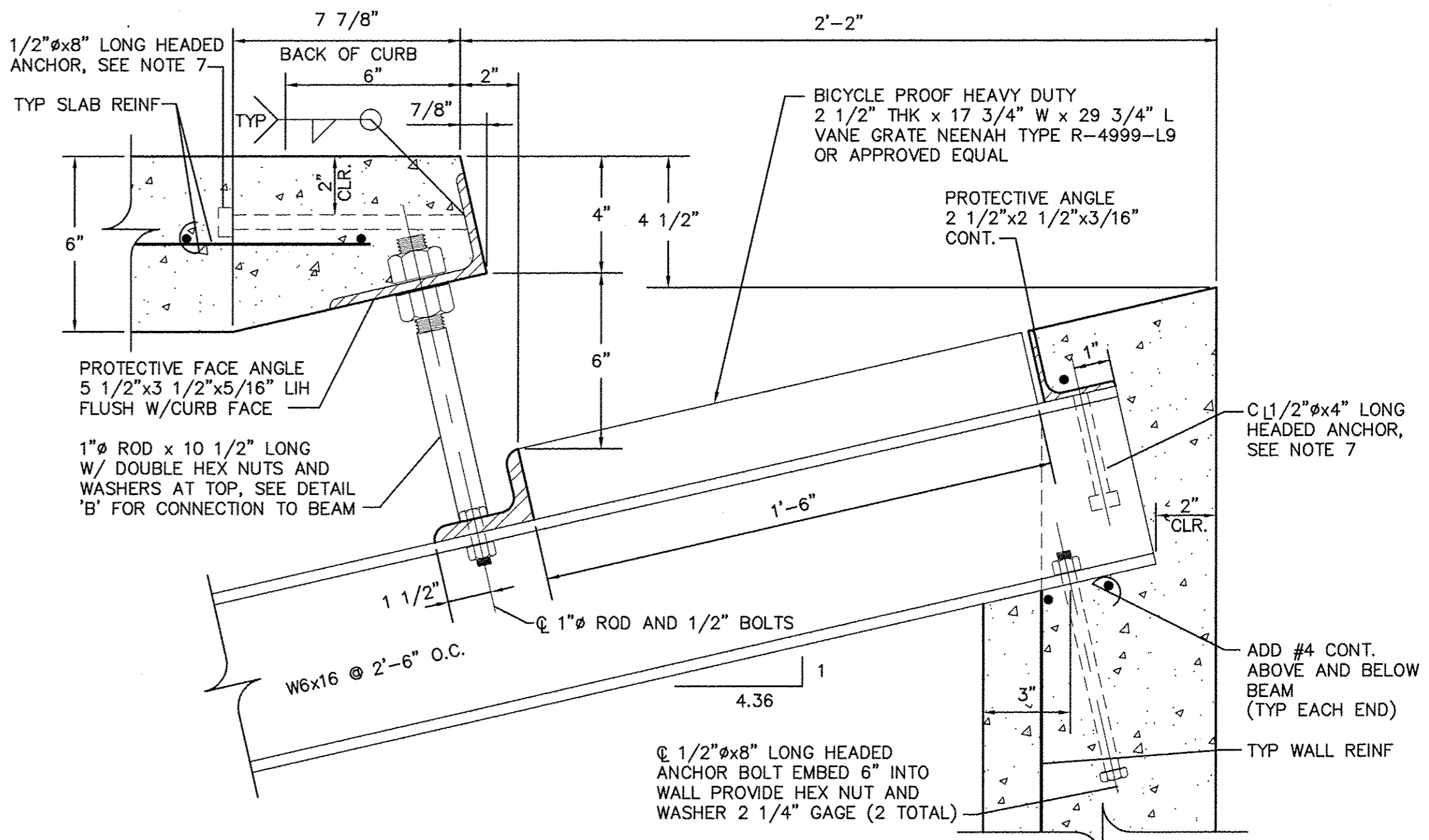
**SECTION "B"**  
SCALE 1-1/2"=1'



**DROP INLET LAYOUT PLAN**  
SCALE 3/8"=1'



**ALTERNATE CONNECTION DETAIL**  
SCALE 3/8"=1'



**PROTECTIVE FACE & ROD - DETAIL "A"**  
SCALE 3"=1'

**NOTES:**

1. ALL EXPOSED METALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
2. PROVIDE 1/2" (MIN.) CLEARANCE ALL AROUND THE STEEL BEAM, DRY PACK AFTER INSTALLATION.
3. WHEN REQUIRED BY LENGTH OF OPENING, PLATE ANGLE MAYBE DELIVERED IN SECTIONS AND BUTT WELDED IN PLACE.
4. ALL GALVANIZING DAMAGED BY WELDING SHALL RECEIVE TWO COATS OF GALVALLOY OR EQUAL.
5. CONCRETE SHALL BE MODIFIED CLASS DA, SEE SPECIAL PROVISIONS SECTION 501.
6. SEE GENERAL NOTES FOR STRUCTURES ON DWG RS1.
7. ANGLE ANCHORS SHALL BE EMBEDDED MIDPOINT IN EACH ENDWALL AND EVENLY SPACED. (MAXIMUM SPACING OF 2')

**TYPE "CM" DROP INLET**  
NOT TO SCALE



REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**DROP INLET DETAILS**

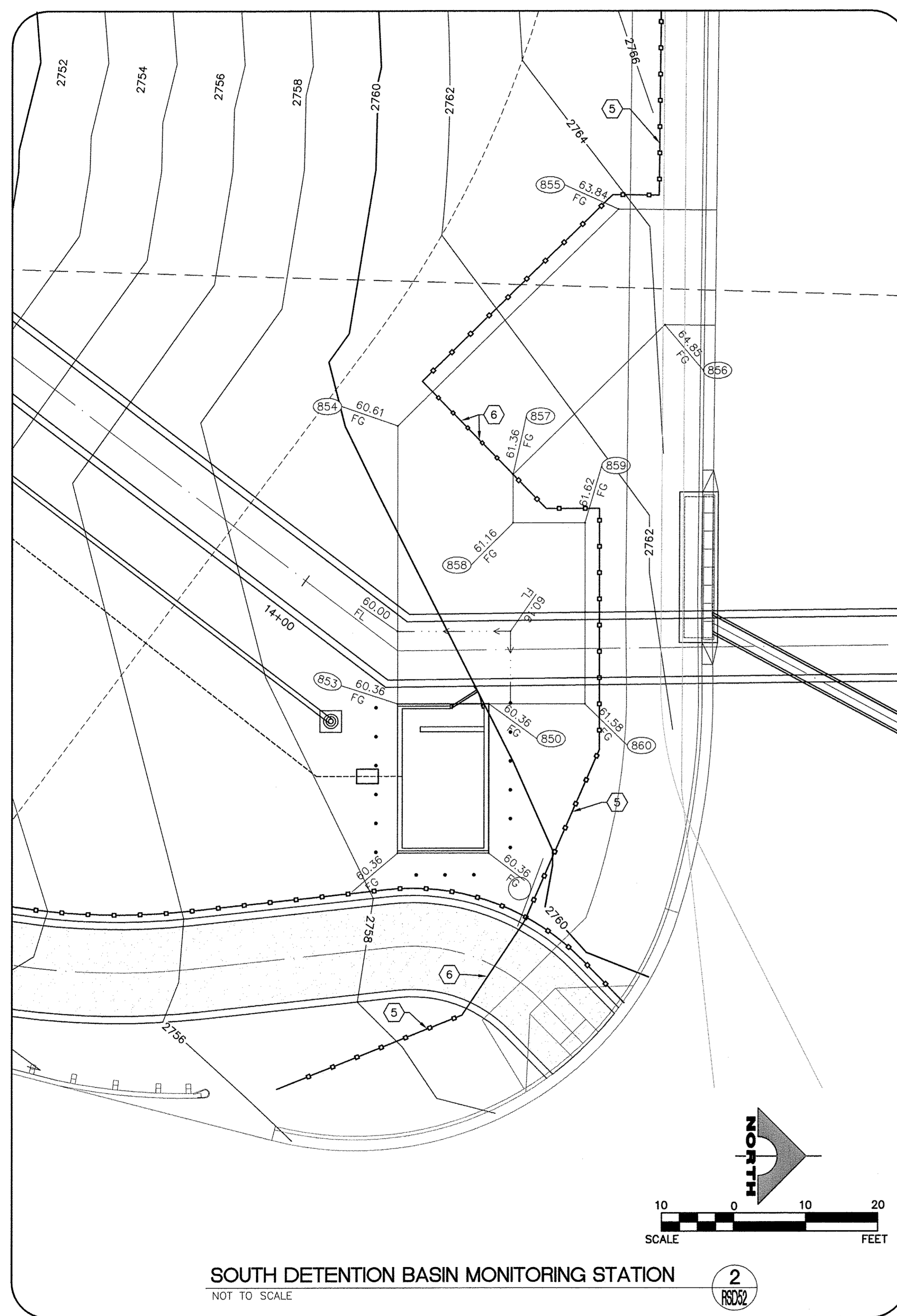
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



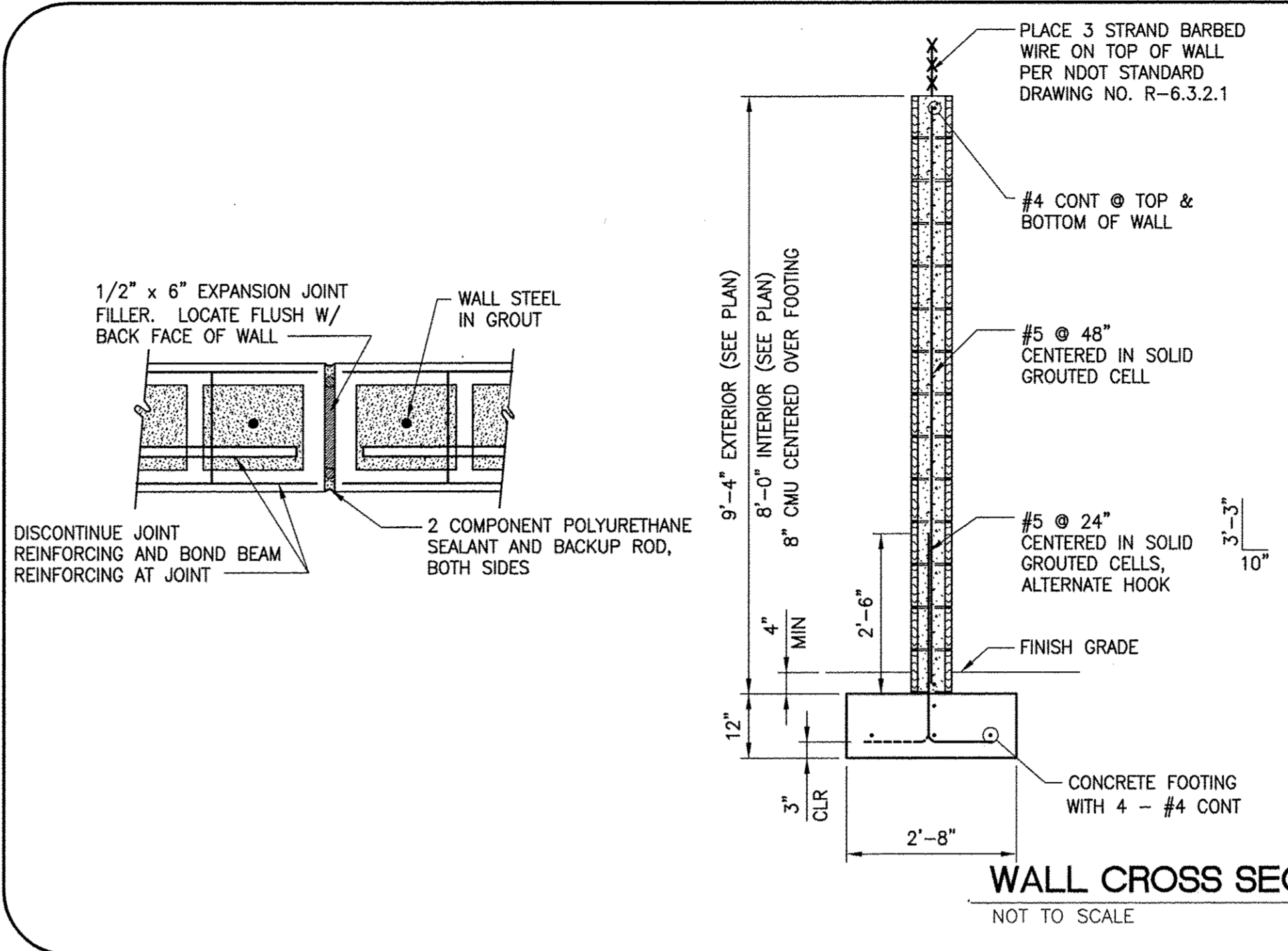
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	<b>RSD51</b>
VERT:	AS SHOWN	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 555 OF 600

BID. NO. 603576-15

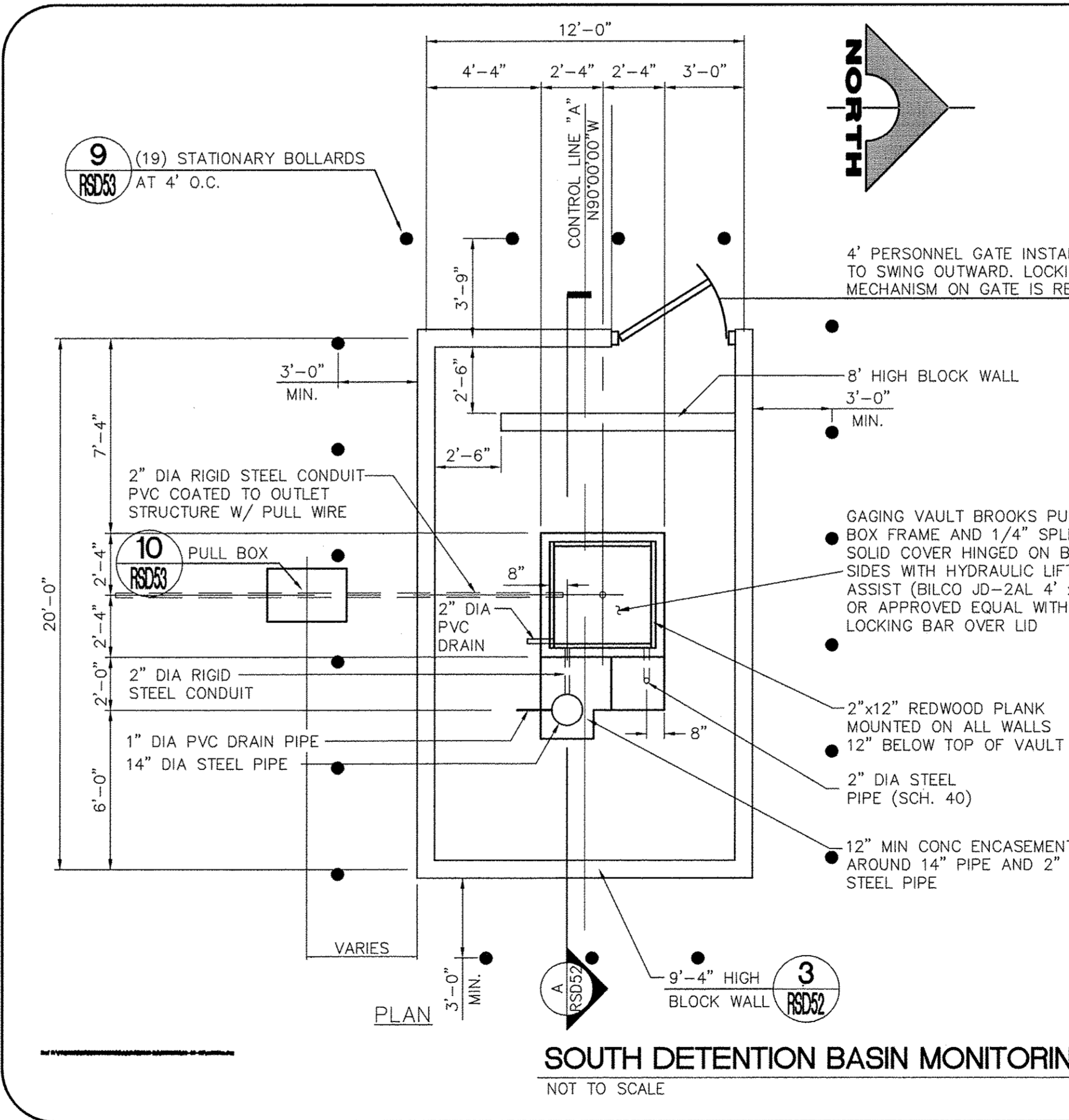


**SOUTH DETENTION BASIN MONITORING STATION**  
NOT TO SCALE

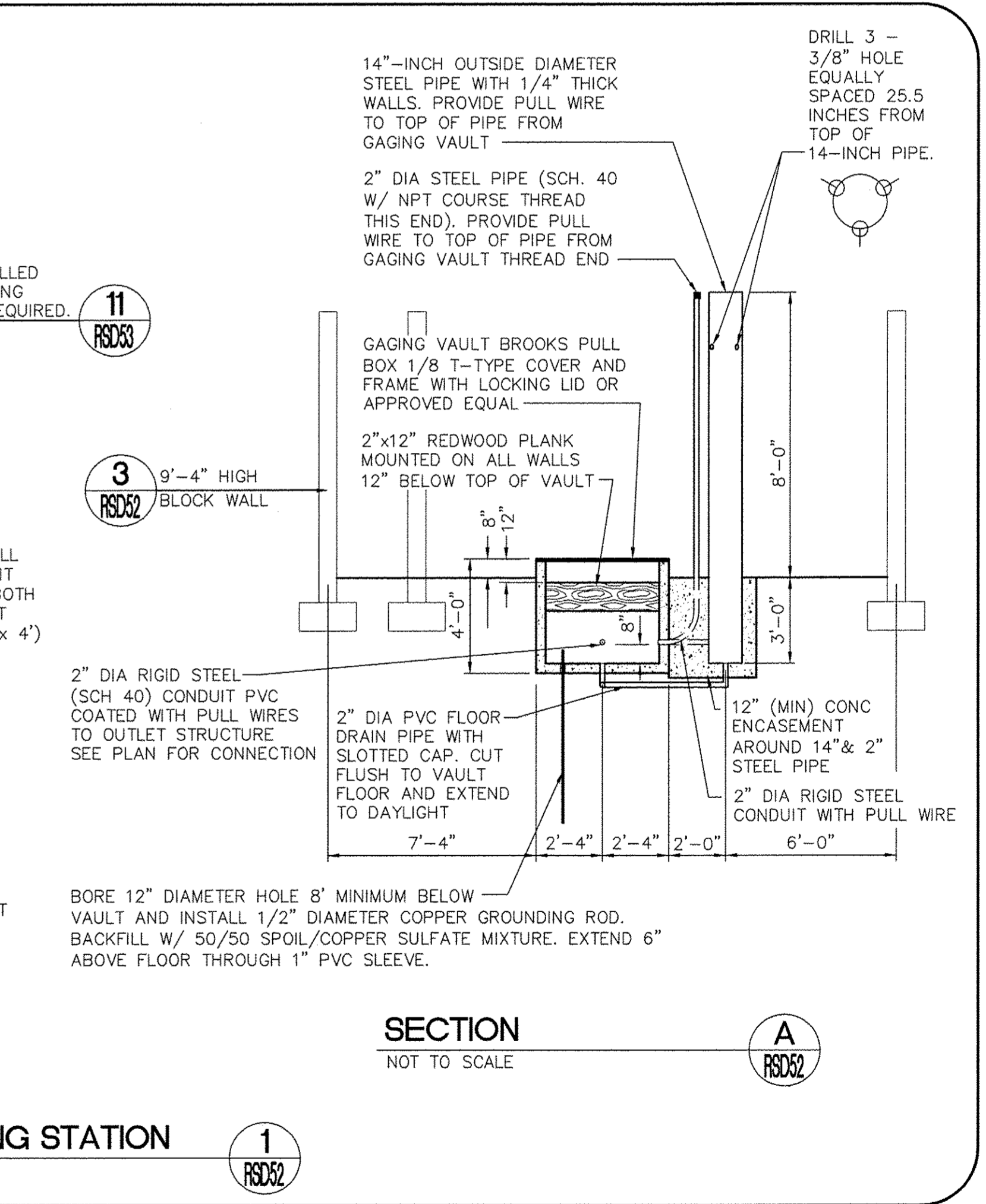


**WALL CROSS SECTION**  
NOT TO SCALE

- GENERAL STRUCTURAL NOTES:**
1. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60.
  2. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,500 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150. (DESIGN BASED ON  $f'_c=2500$  psi)
  3. MASONRY UNITS SHALL BE ASTM C-90, GRADE N-1 HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS:  $f'_m=1500$  psi. SPECIAL INSPECTION PER IBC SECTION 1704 SHALL BE PROVIDED.
  4. MORTAR SHALL BE ASTM C270, TYPE "M" OR "S" WITH A MINIMUM STRENGTH OF 1800 psi AT 28 DAYS.
  5. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2000 psi AT 28 DAYS USING TYPE V CEMENT PER ASTM C-150.
  6. IN ADDITION TO THE HORIZONTAL STEEL REINFORCEMENT SPECIFIED IN THE DETAIL, PROVIDE 9-GA LADDER TYPE HORIZONTAL JOINT REINFORCING AT 16" ON CENTER THROUGHOUT ALL MASONRY CONSTRUCTION, WITH LAP SPLICES OF 12" MINIMUM, INCLUDING CORNERS. AT CONTRACTOR'S OPTION, LADDER TYPE HORIZONTAL JOINT REINFORCING MAY BE REPLACED BY #4 HORIZONTAL BARS @ 48" O.C. MAX PLACED IN BOND BEAM BLOCKS.
  7. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION SHALL CONFORM TO THE 2012 INTERNATIONAL BUILDING CODE AND PER STANDARD SPECIFICATIONS FOR CLARK COUNTY, NEVADA, BUILDING DEPARTMENT.
  8. ALL WALLS ARE SUBJECT TO APPROVAL BY CLARK COUNTY, NEVADA, BUILDING DEPARTMENT.
  9. SOLID GROUT ALL MASONRY UNITS THAT ARE BELOW THE HIGHEST FINISH GRADE AT THE WALL.
  10. ALL CORNERS OR ANGLES SHALL BE TIED TOGETHER WITH REINFORCING STEEL AND GROUTED SOLID. OMIT TIES AND PROVIDE CONSTRUCTION JOINTS AT "T" TYPE WALL INTERSECTIONS.
  11. WHERE VERTICAL GROUT POURS ARE NOT CONTINUOUS FOR THE ENTIRE HEIGHT OF THE WALL, TERMINATE LIFT 1 1/2" BELOW TOP OF TOP BLOCK TO FORM A KEY FOR FUTURE LIFTS.
  12. LOCATE CONSTRUCTION JOINT IN WALL AT A MAXIMUM SPACING OF 24'-0".
  13. BOND BEAMS AND JOINT REINFORCING SHALL NOT BE CONTINUOUS THROUGH WALL CONSTRUCTION JOINTS.
  14. SOLID GROUT ALL MASONRY UNITS CONTAINING STEEL REINFORCEMENT.
  15. BLOCK COLOR SHALL BE AS DIRECTED BY THE OWNER.



**SOUTH DETENTION BASIN MONITORING STATION**  
NOT TO SCALE

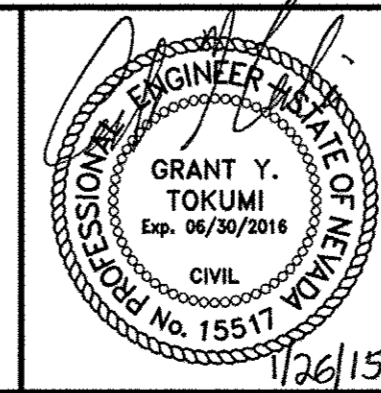


**SECTION**  
NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	APPROVED

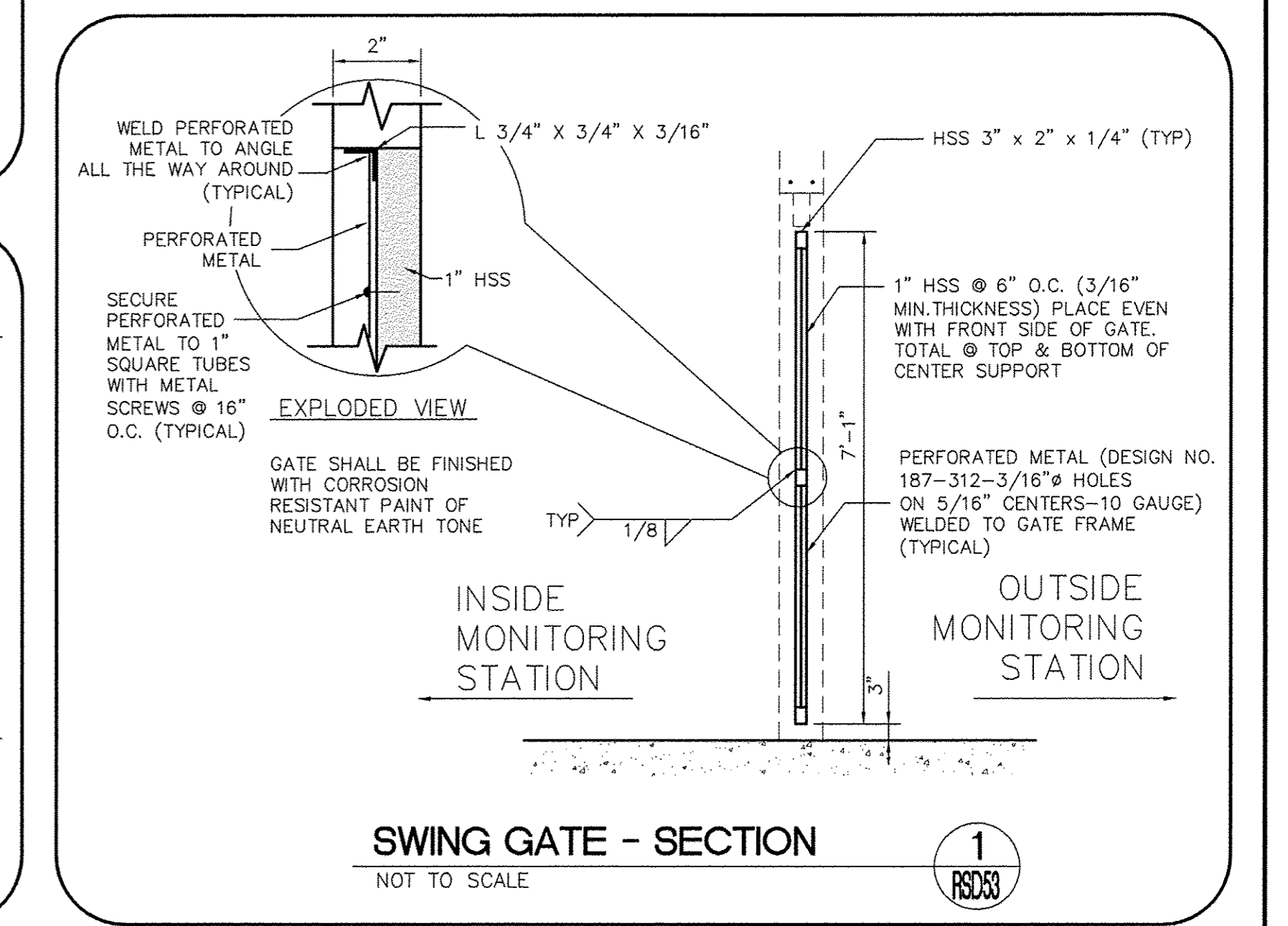
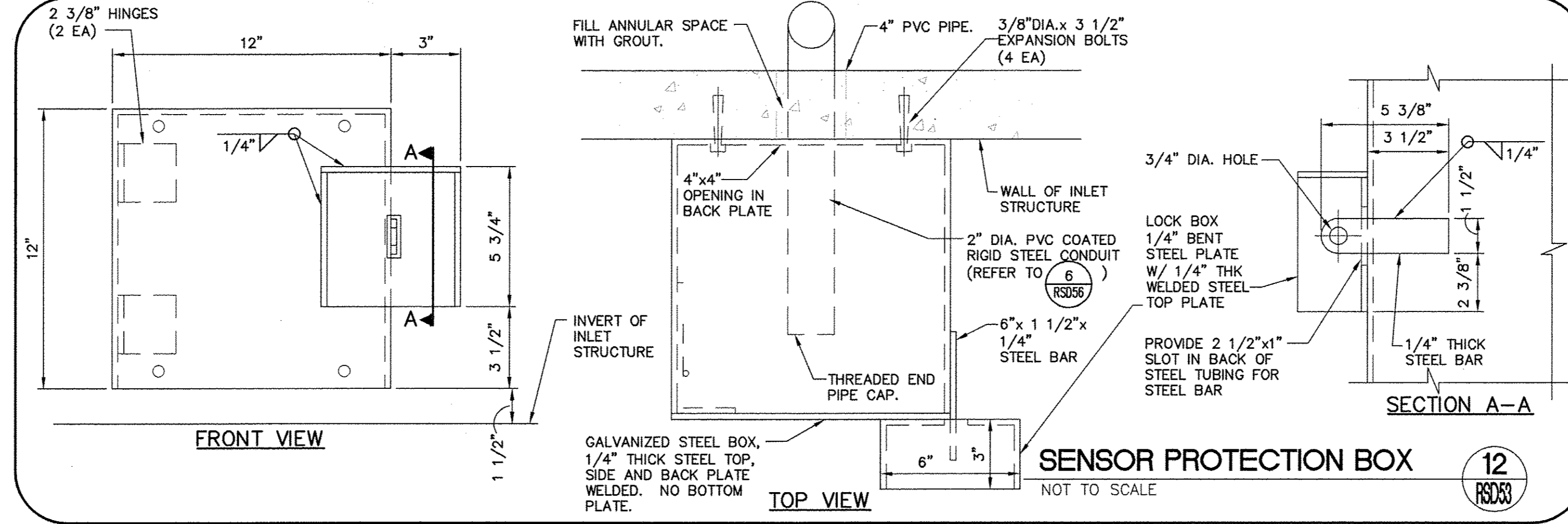
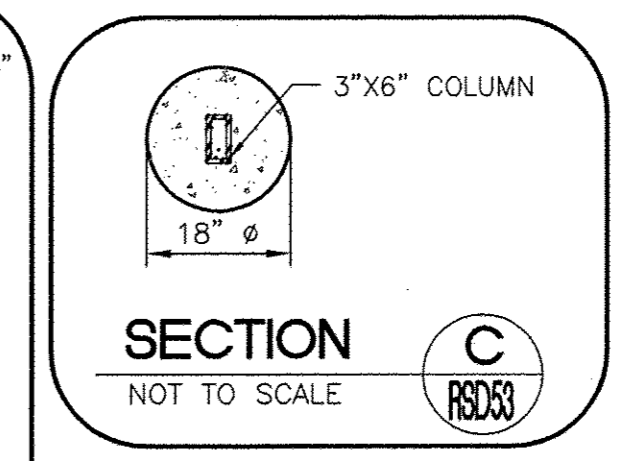
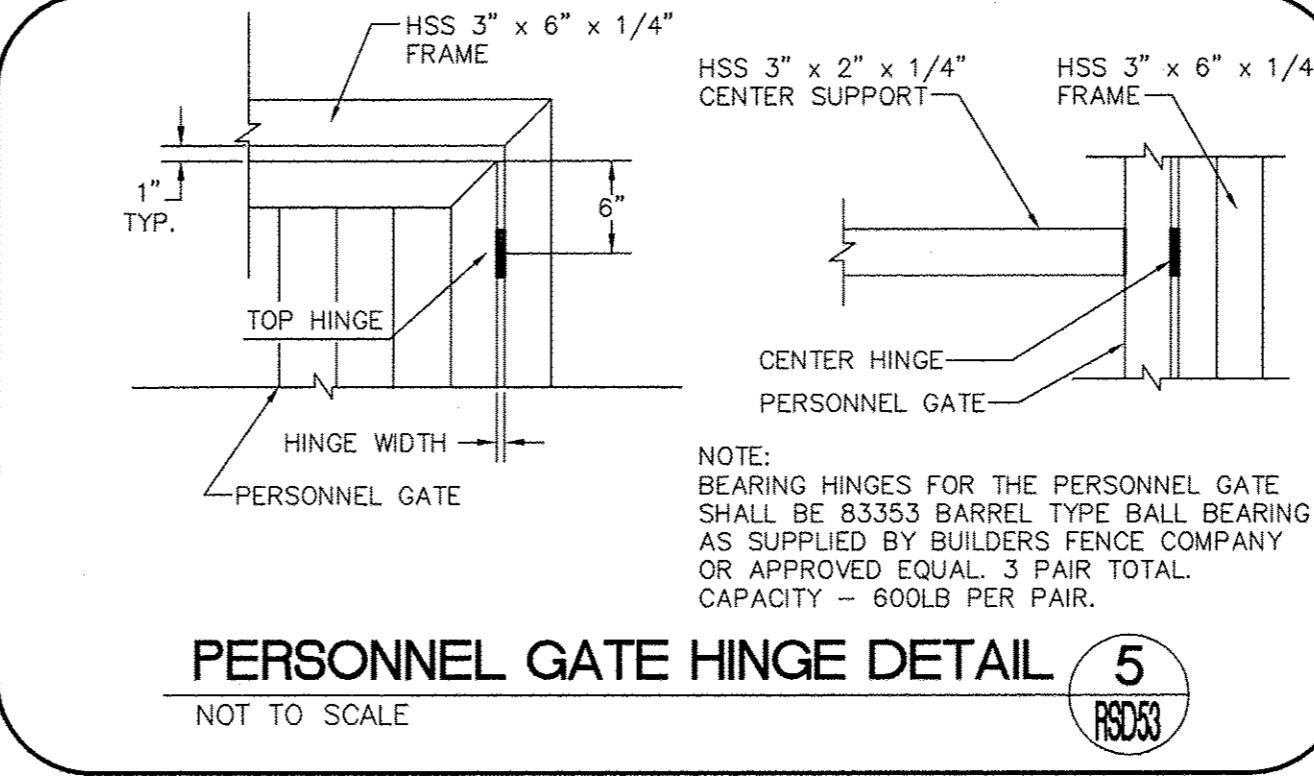
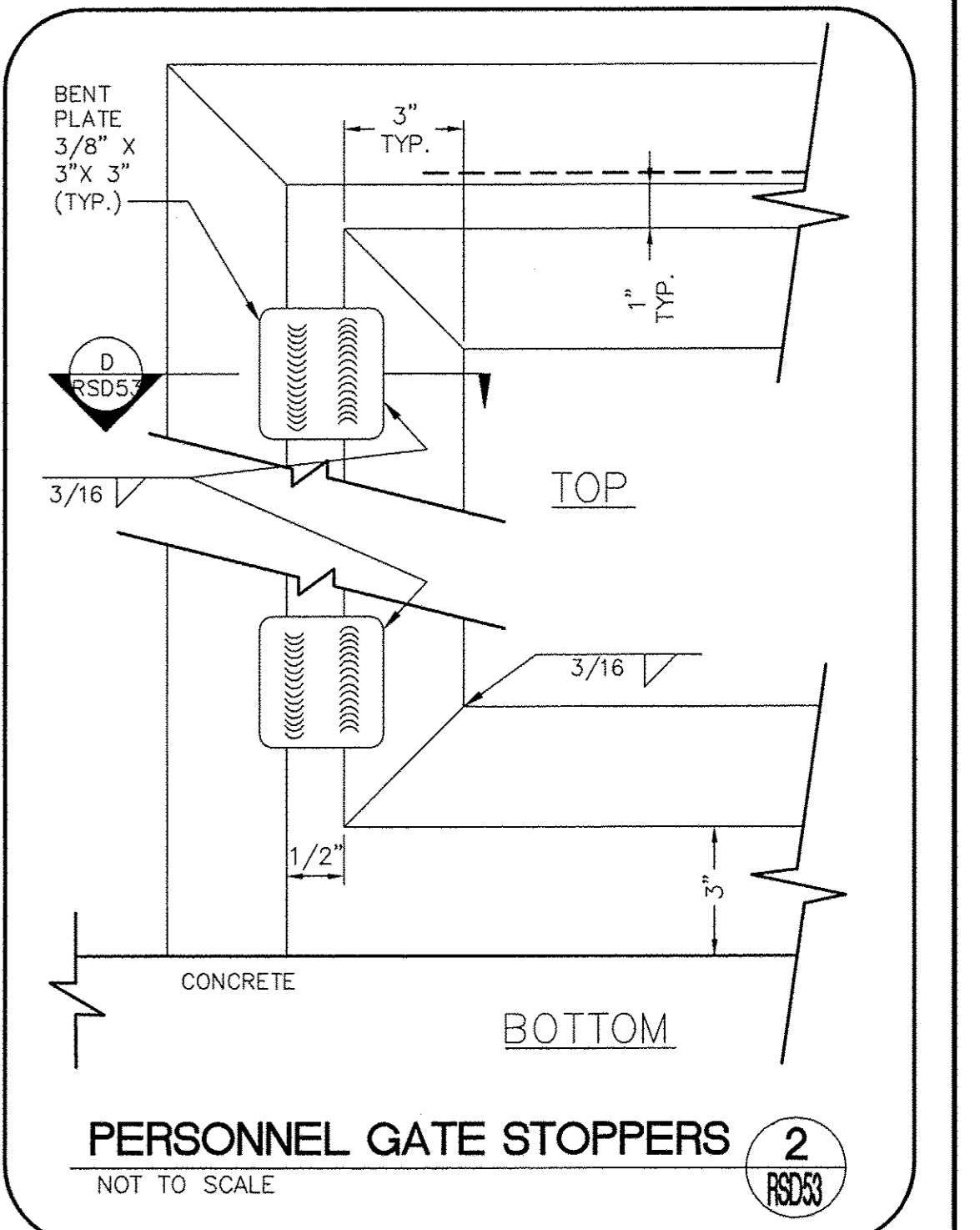
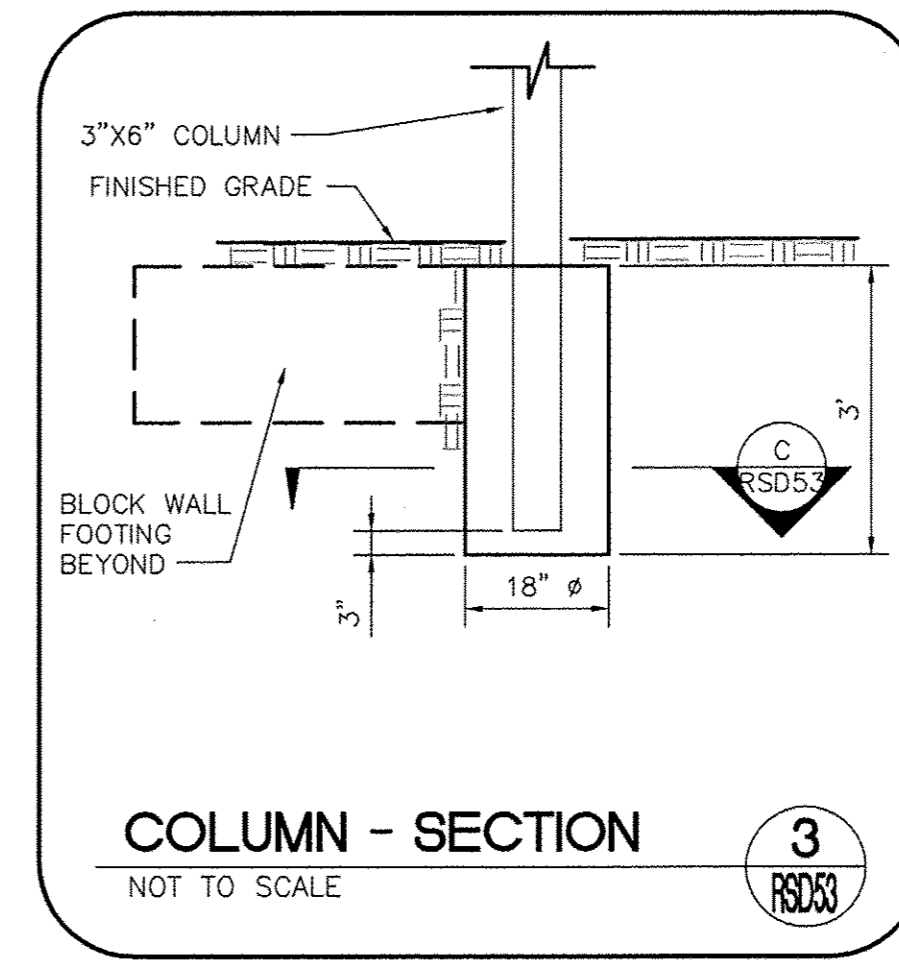
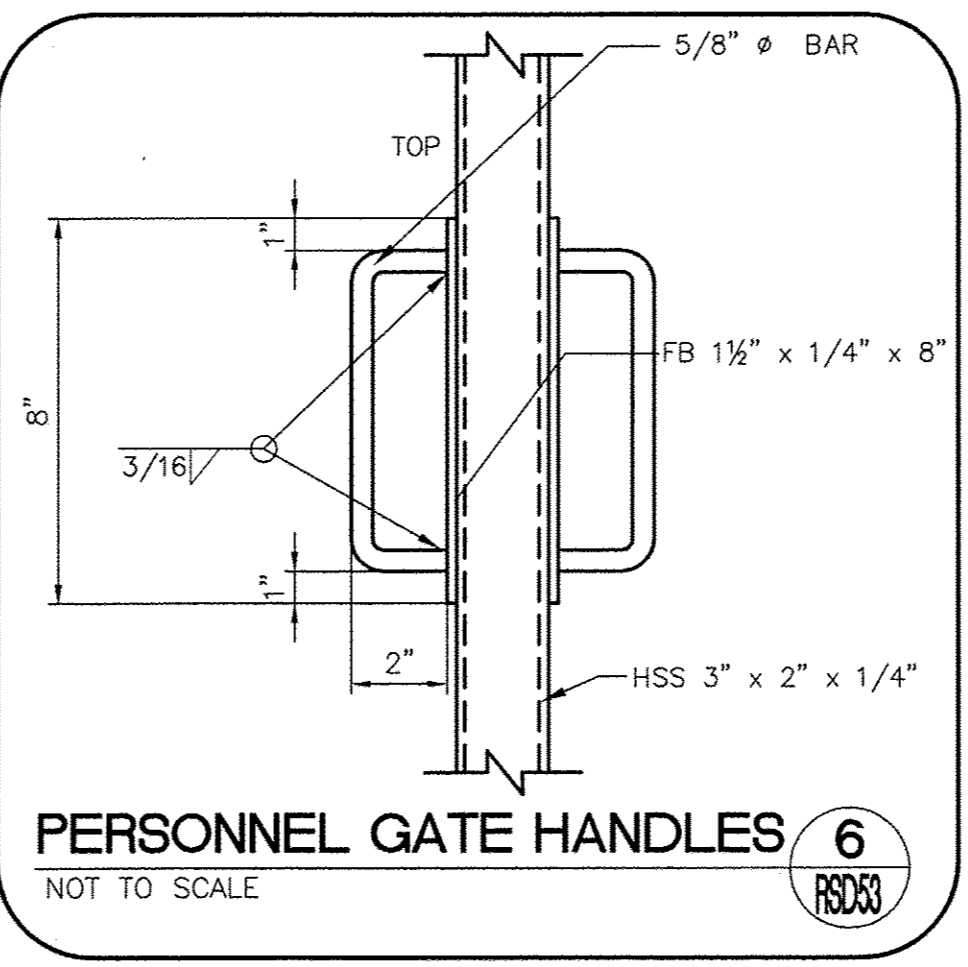
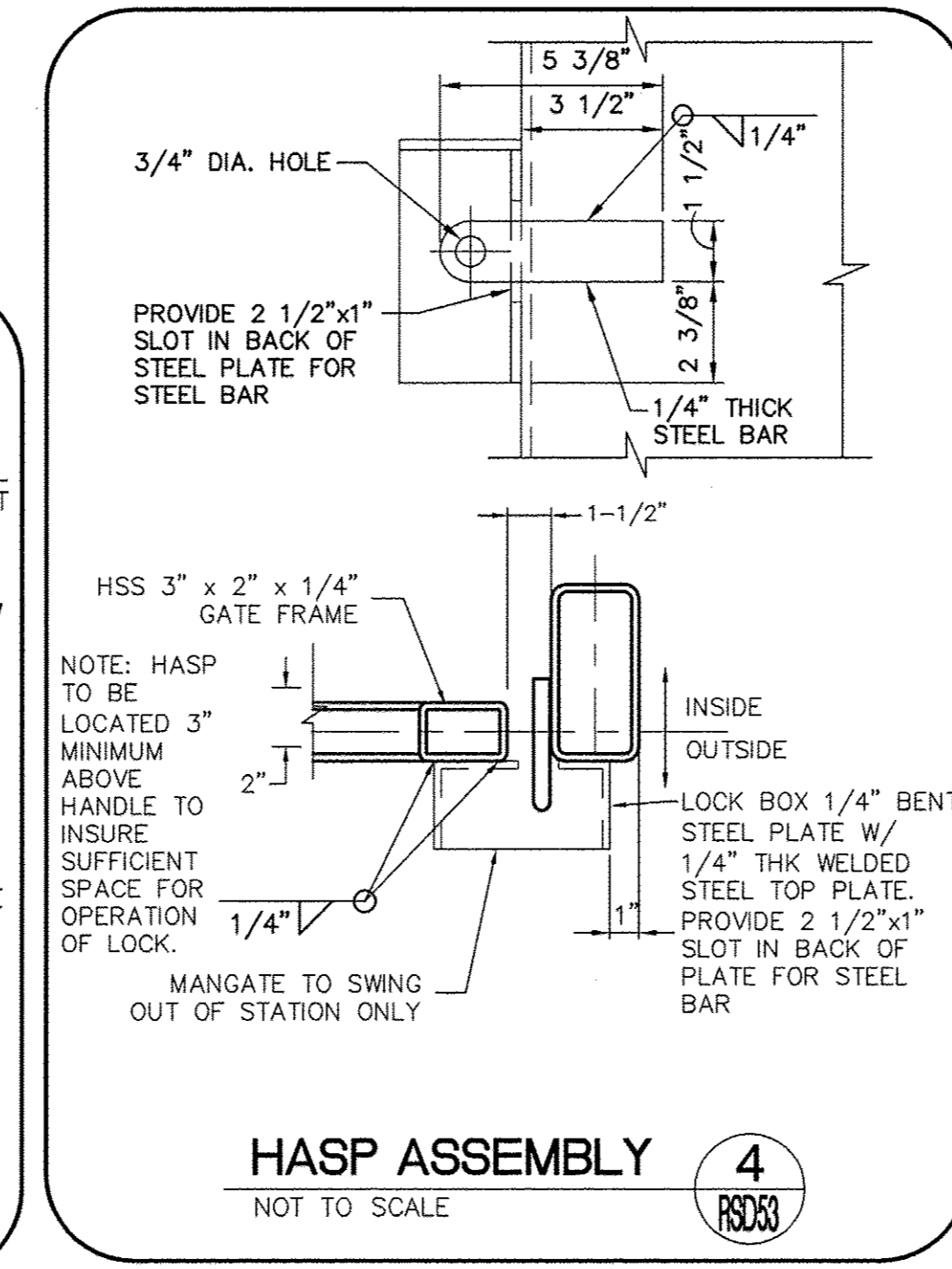
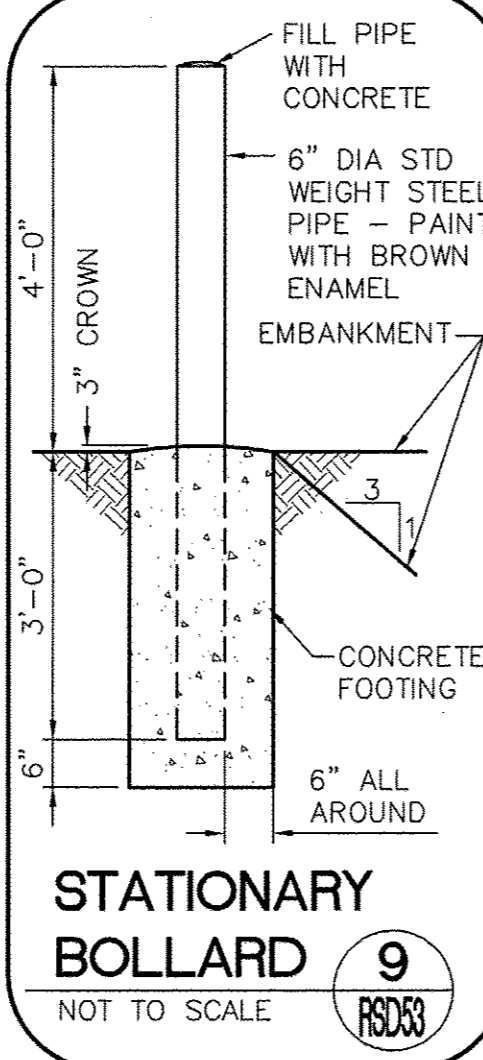
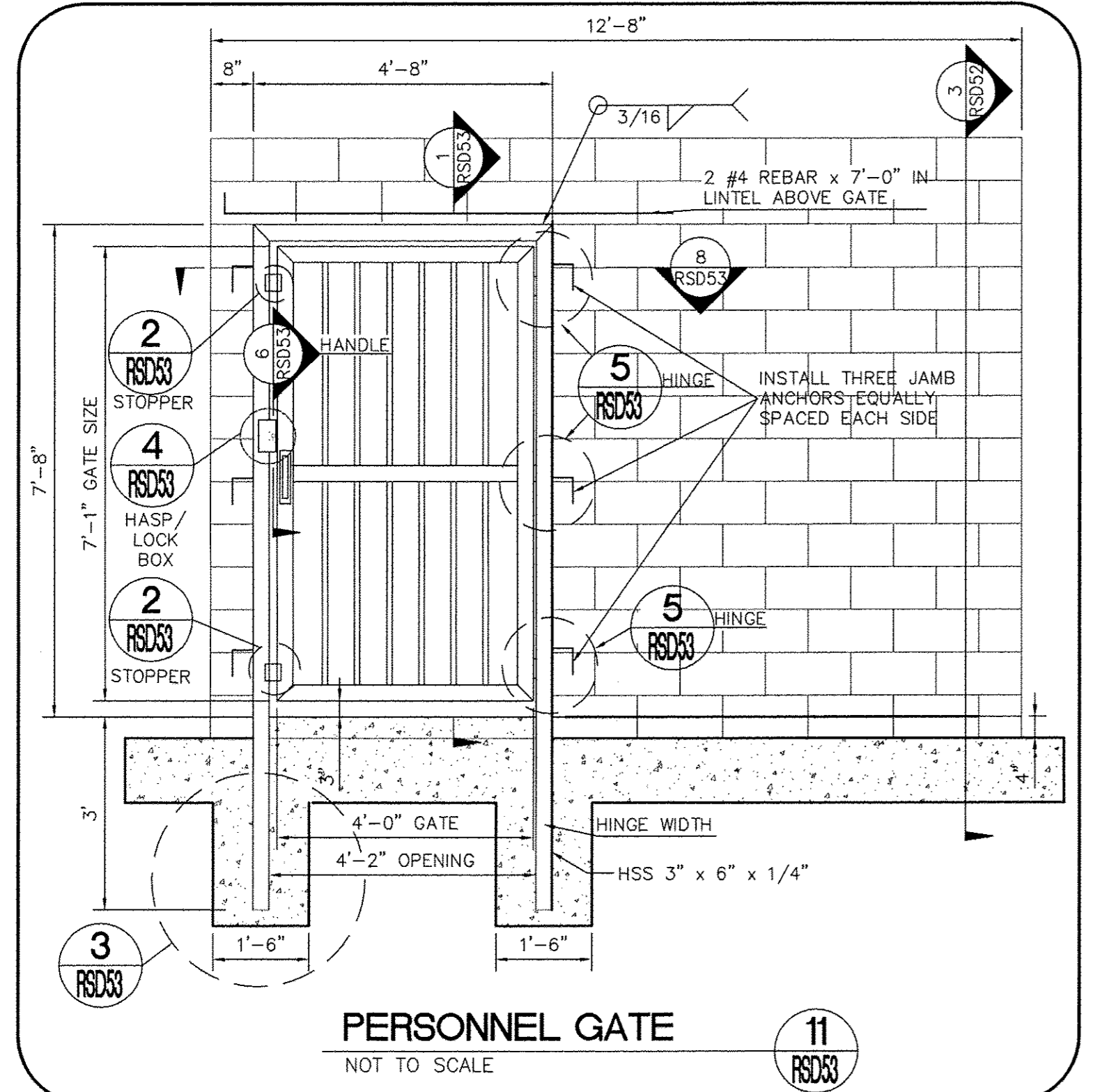
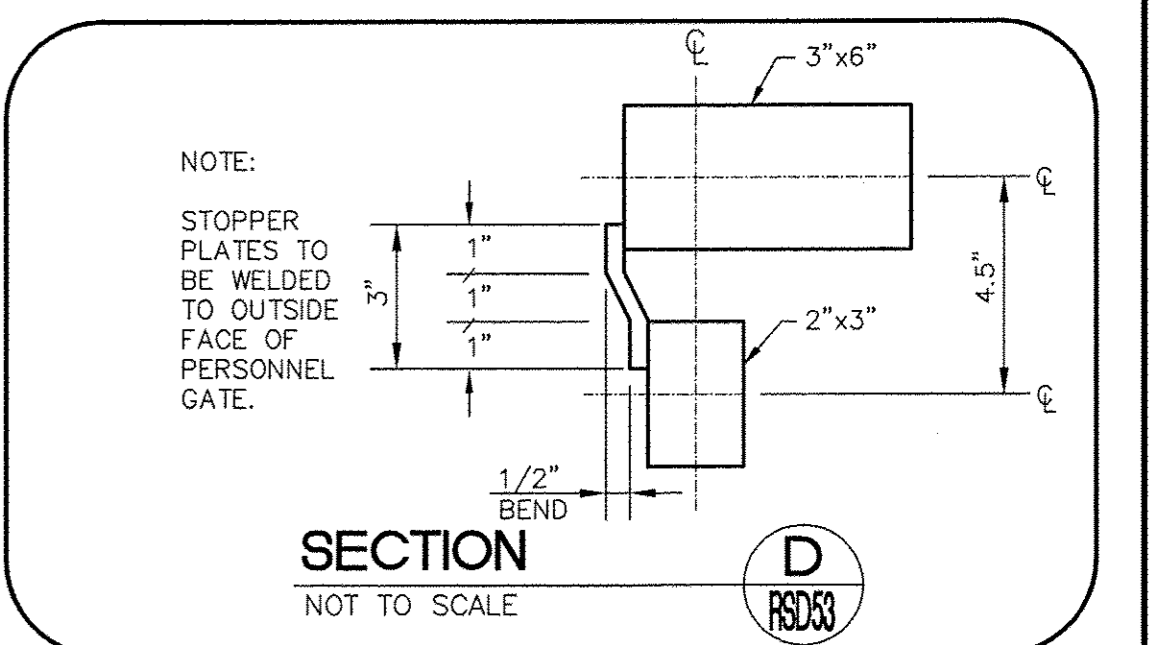
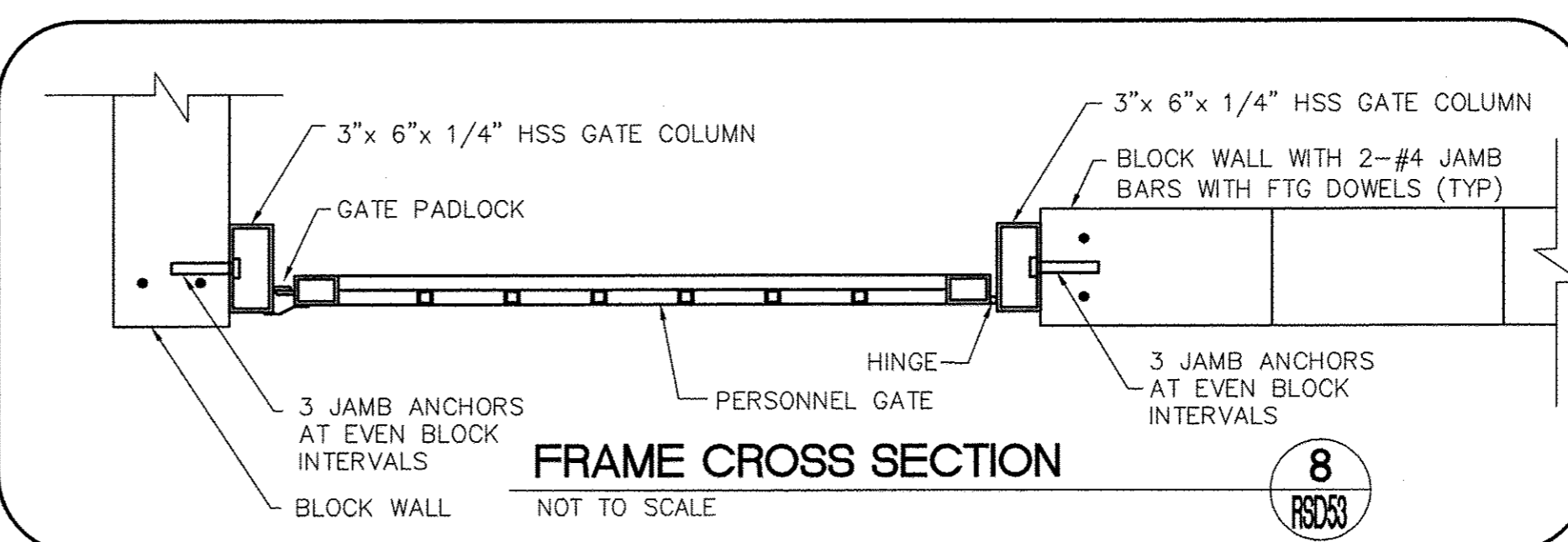
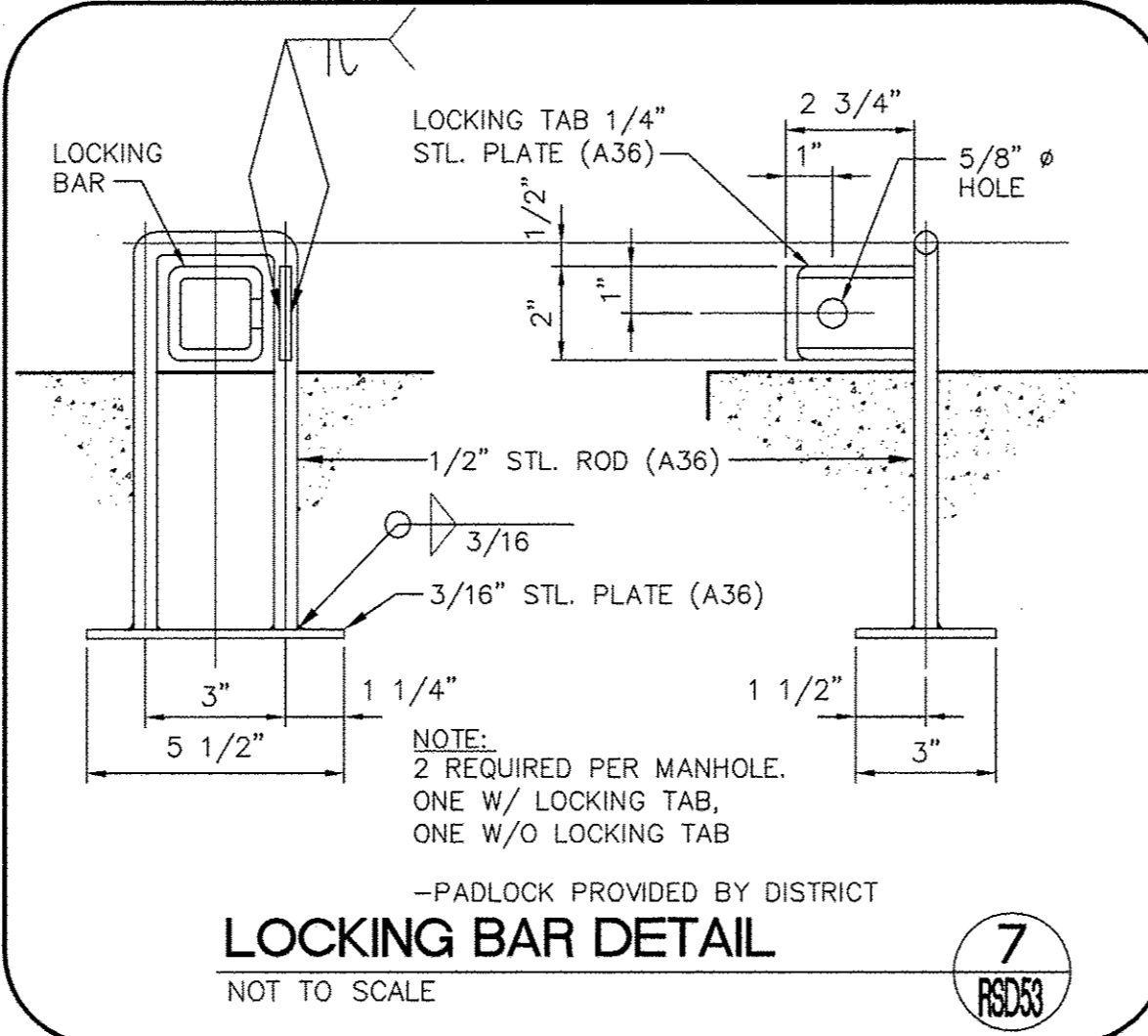
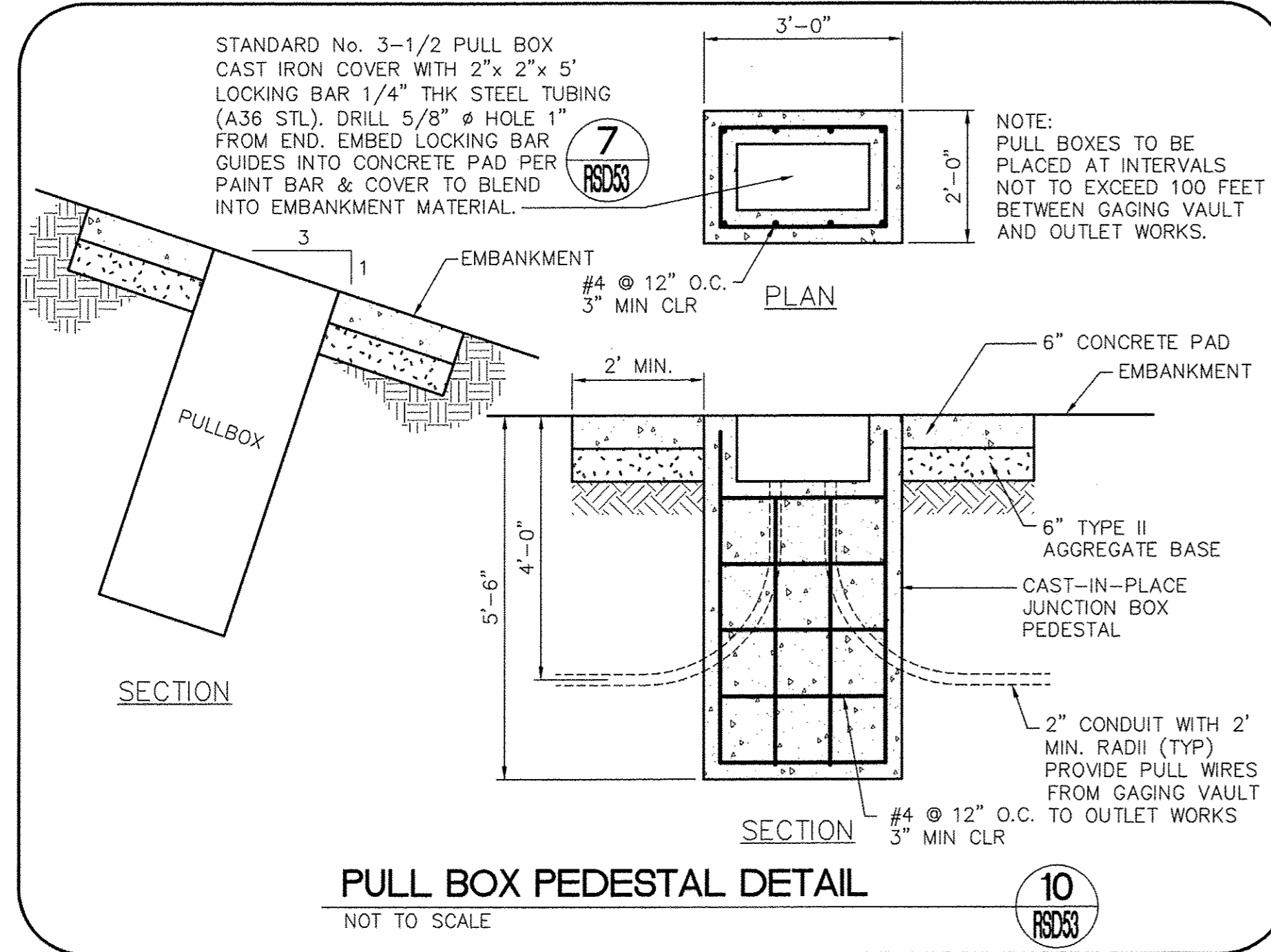


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
MONITORING STATION GRADING PLAN  
AND DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		SHT. 556 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

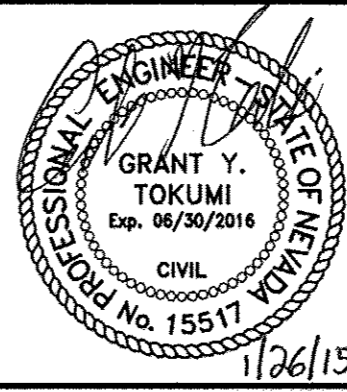


REV. NO.	DATE	DESCRIPTION	APPROVED



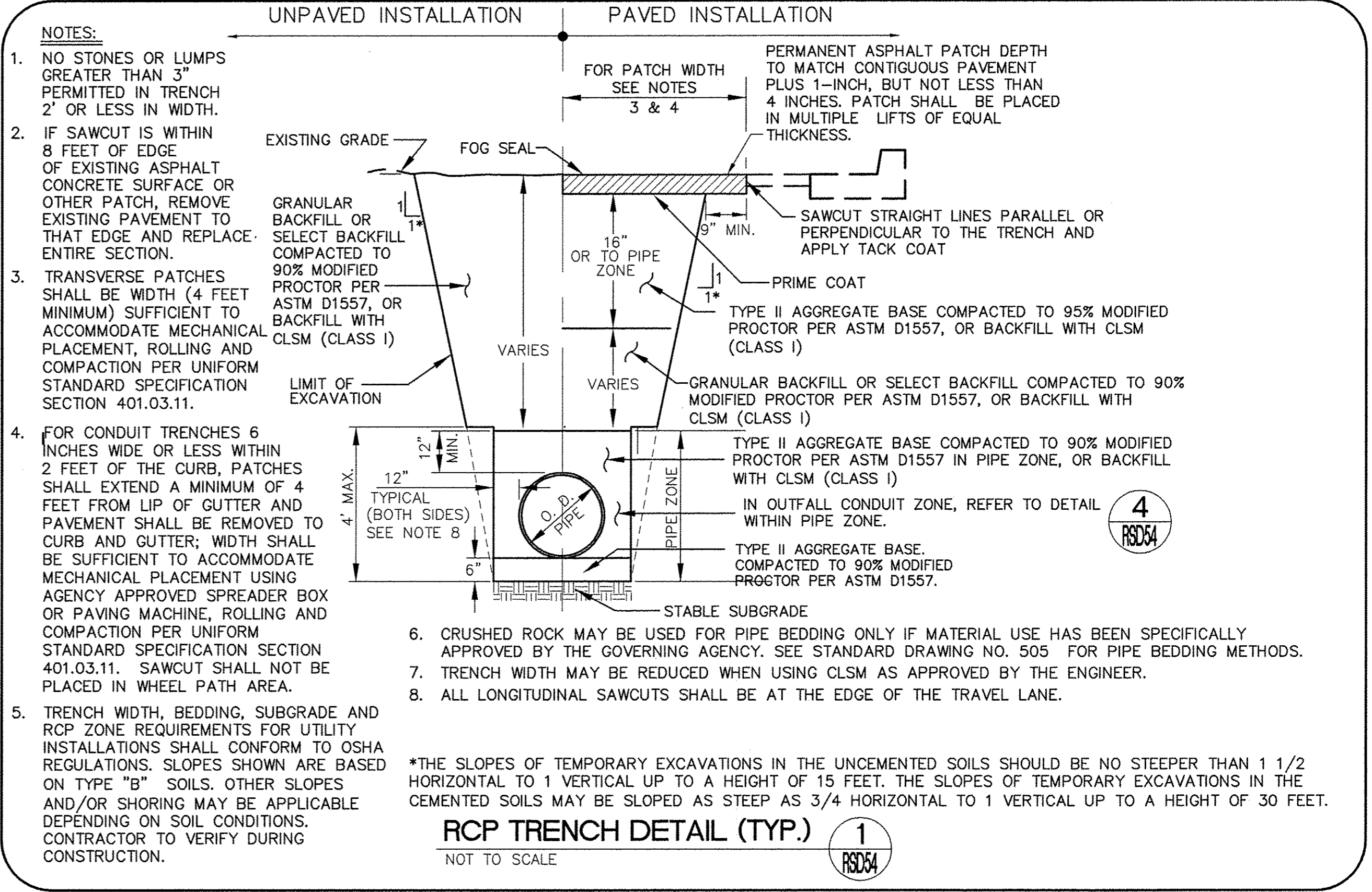
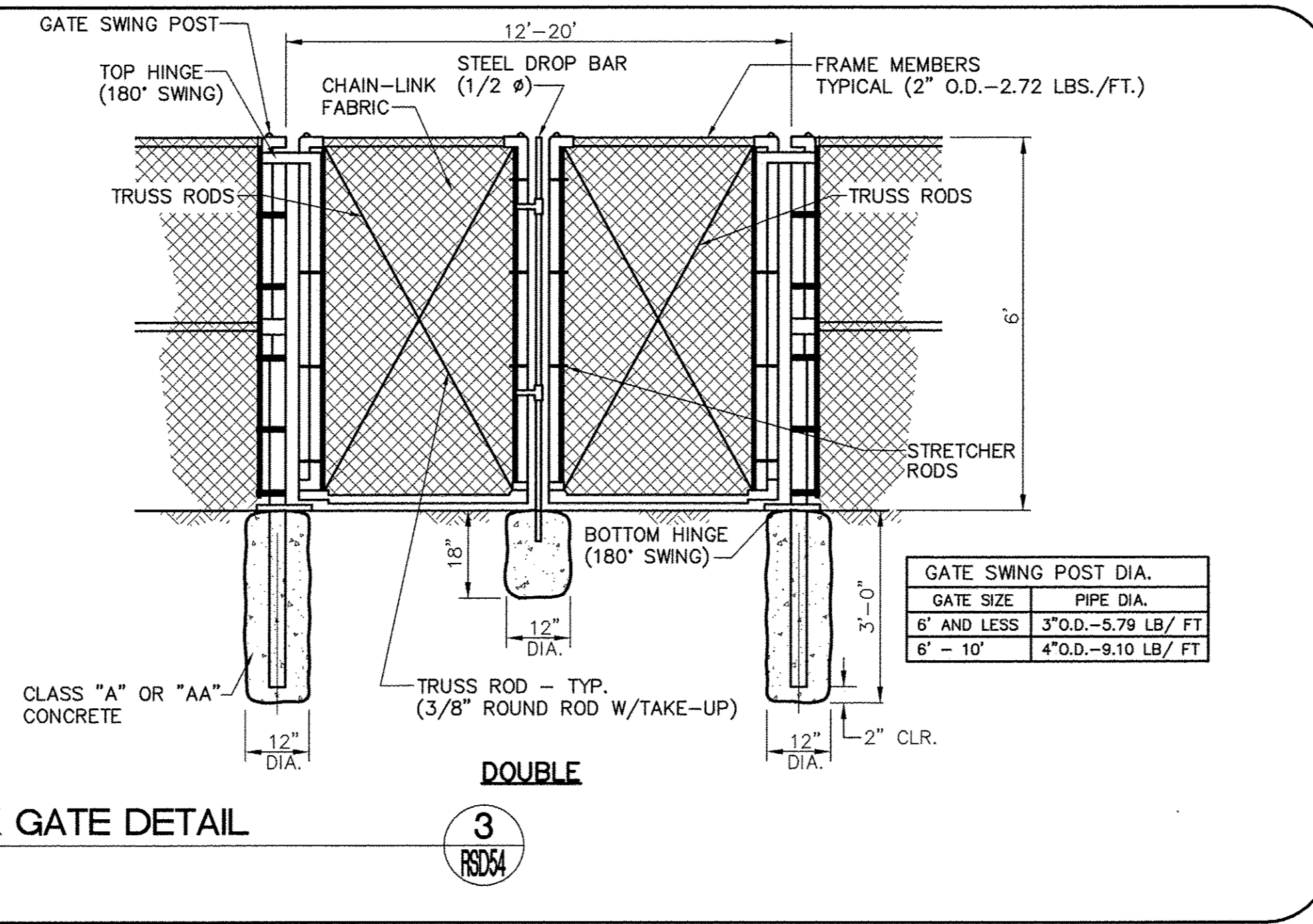
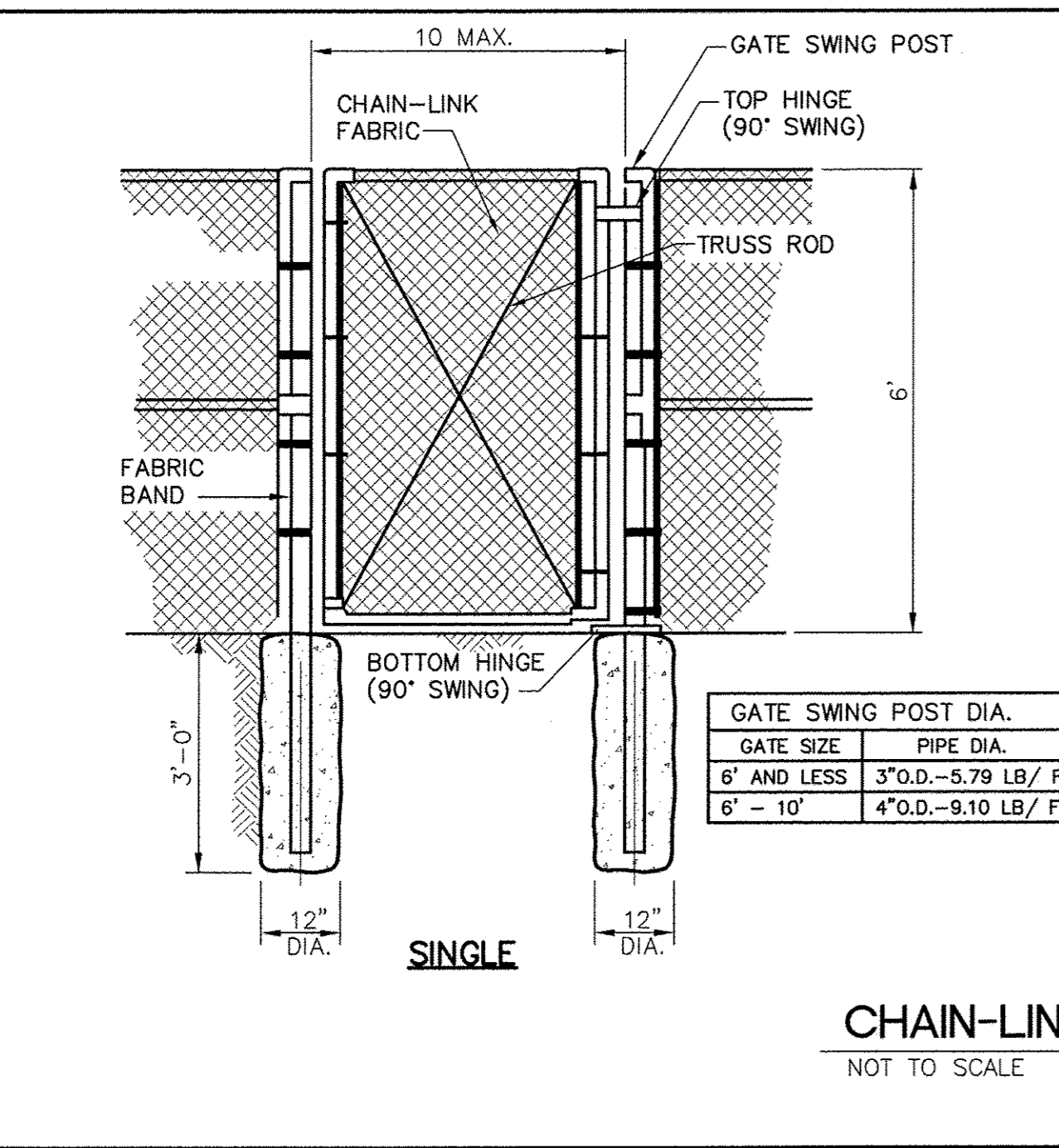
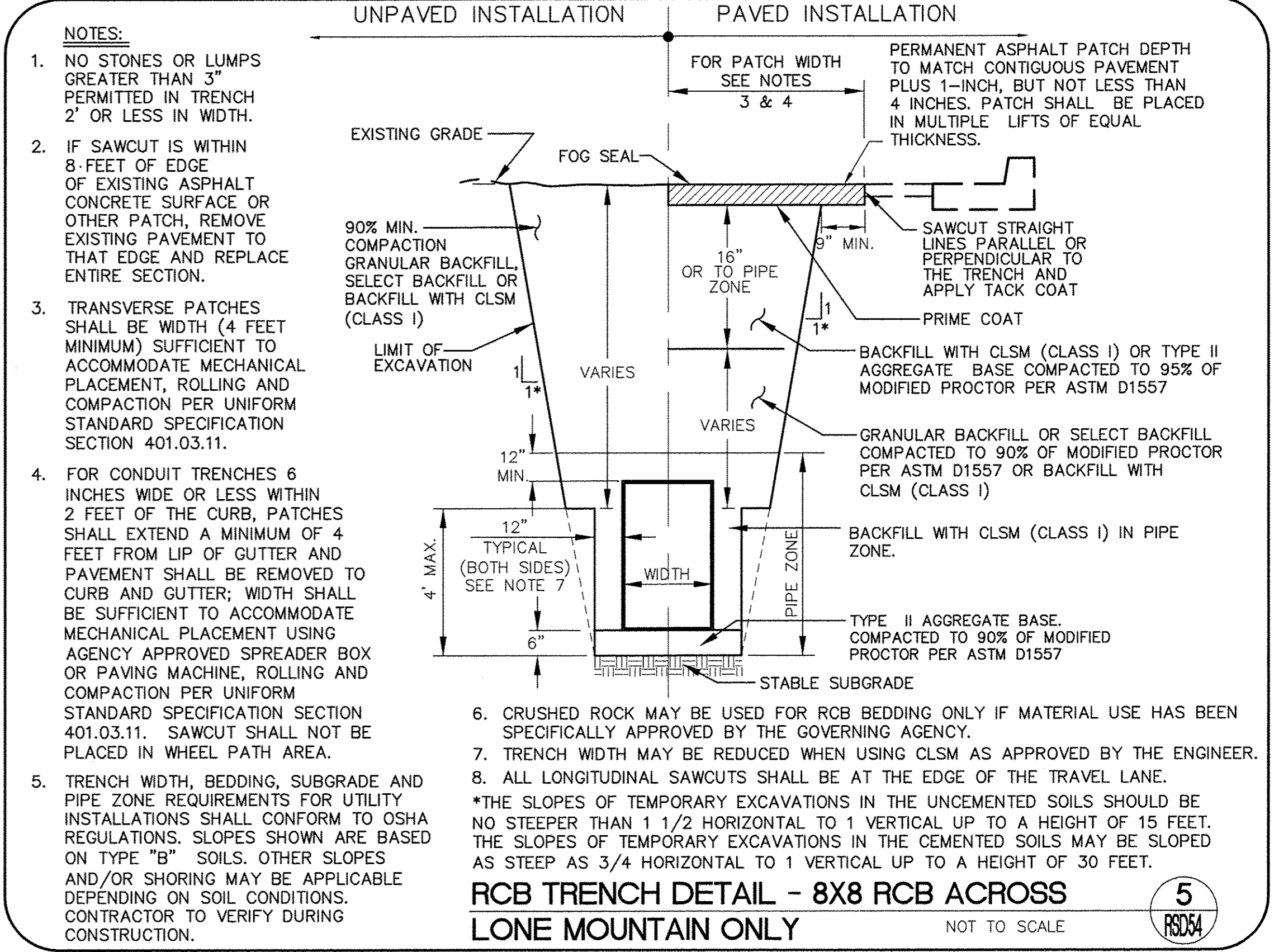
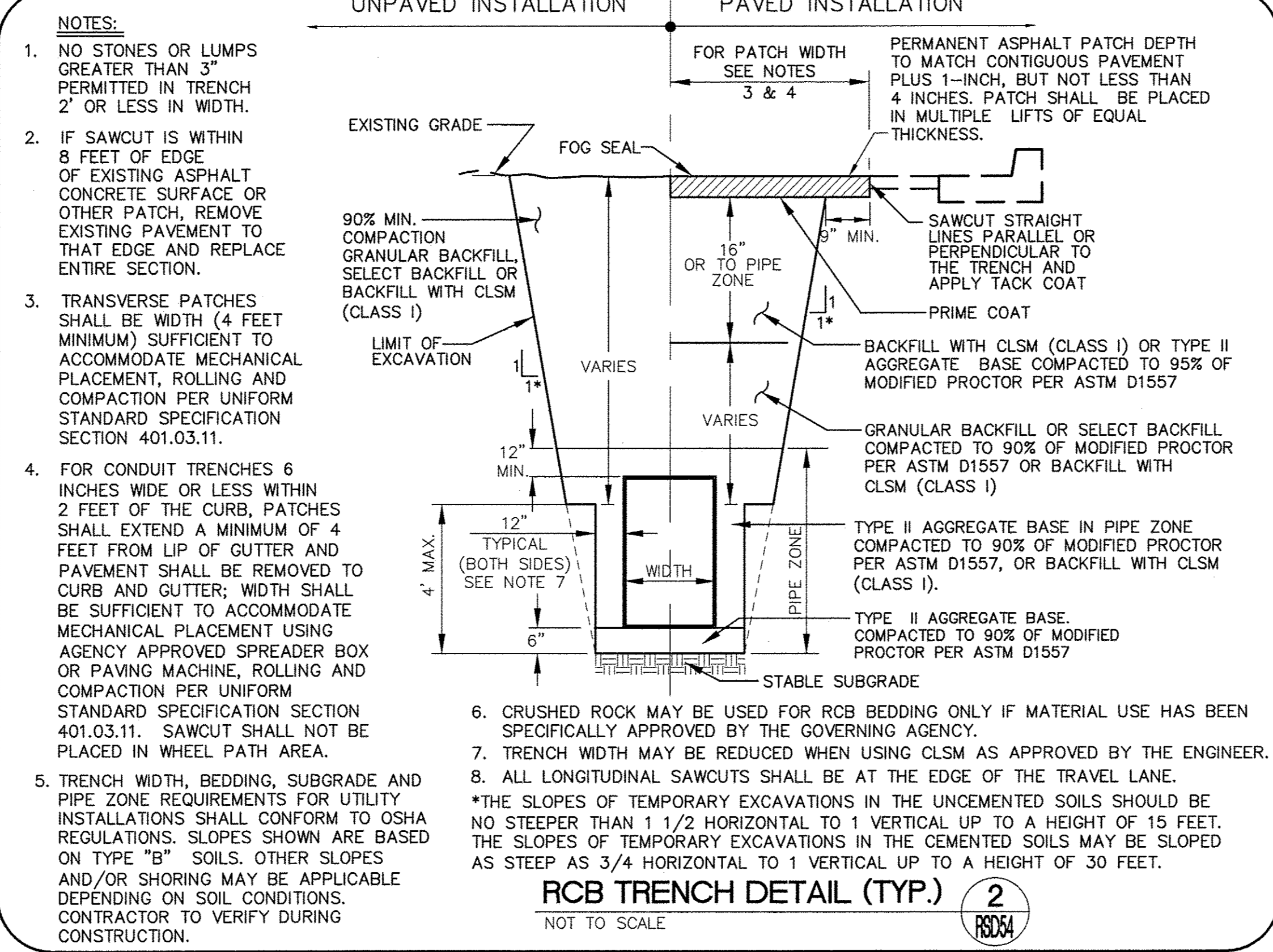
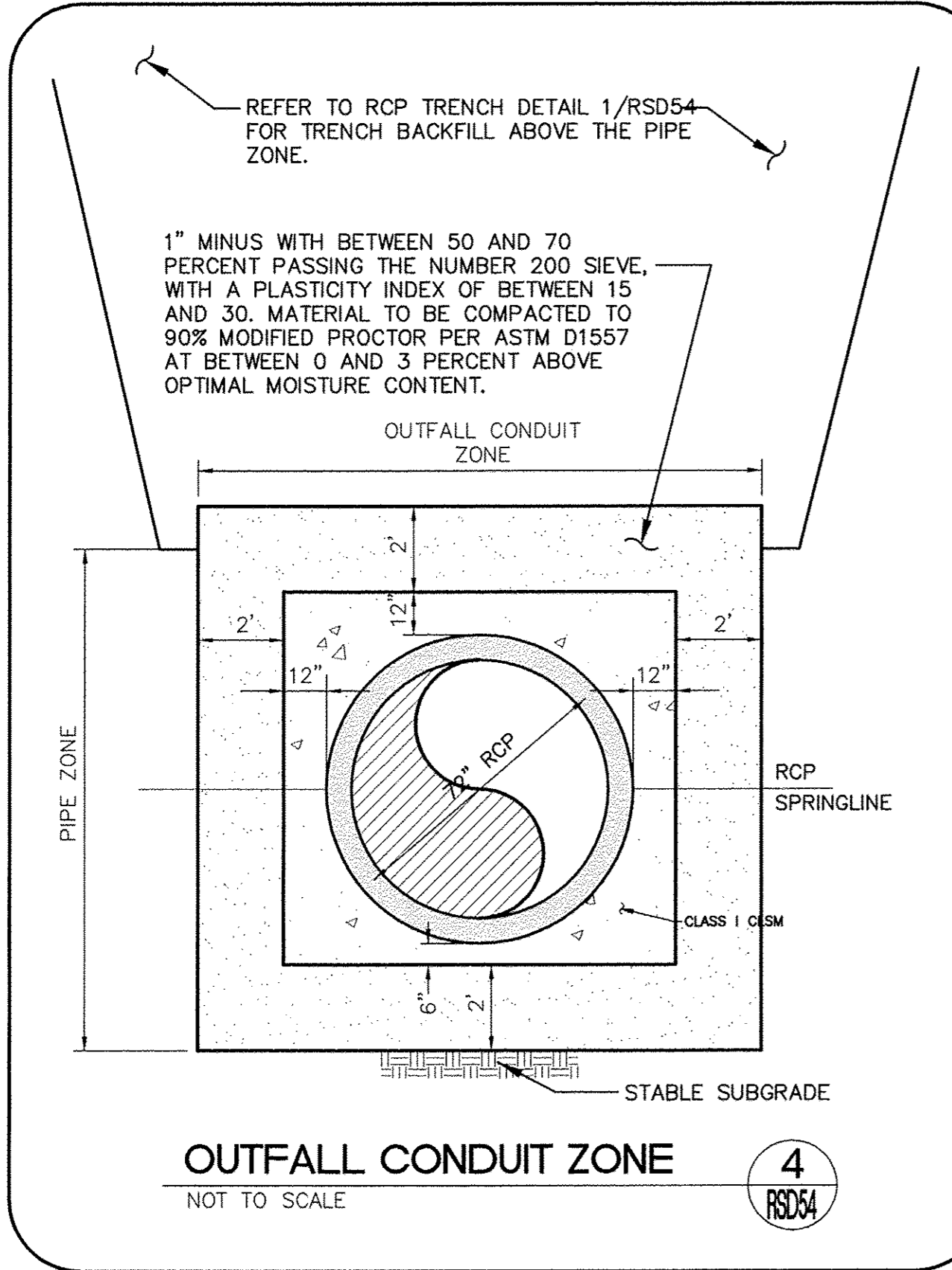
WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
MONITOR STATION DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
G. C. WALLACE COMPANIES  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		
CCPW PROJECT #		
W.O. #	2008-62	SHT. 557 OF 600

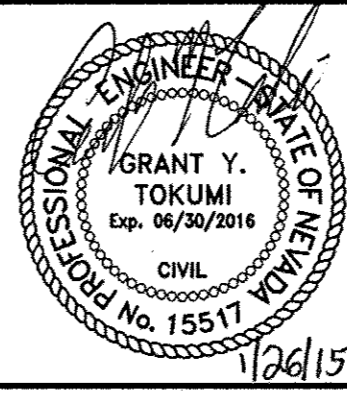


REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
DETAILS

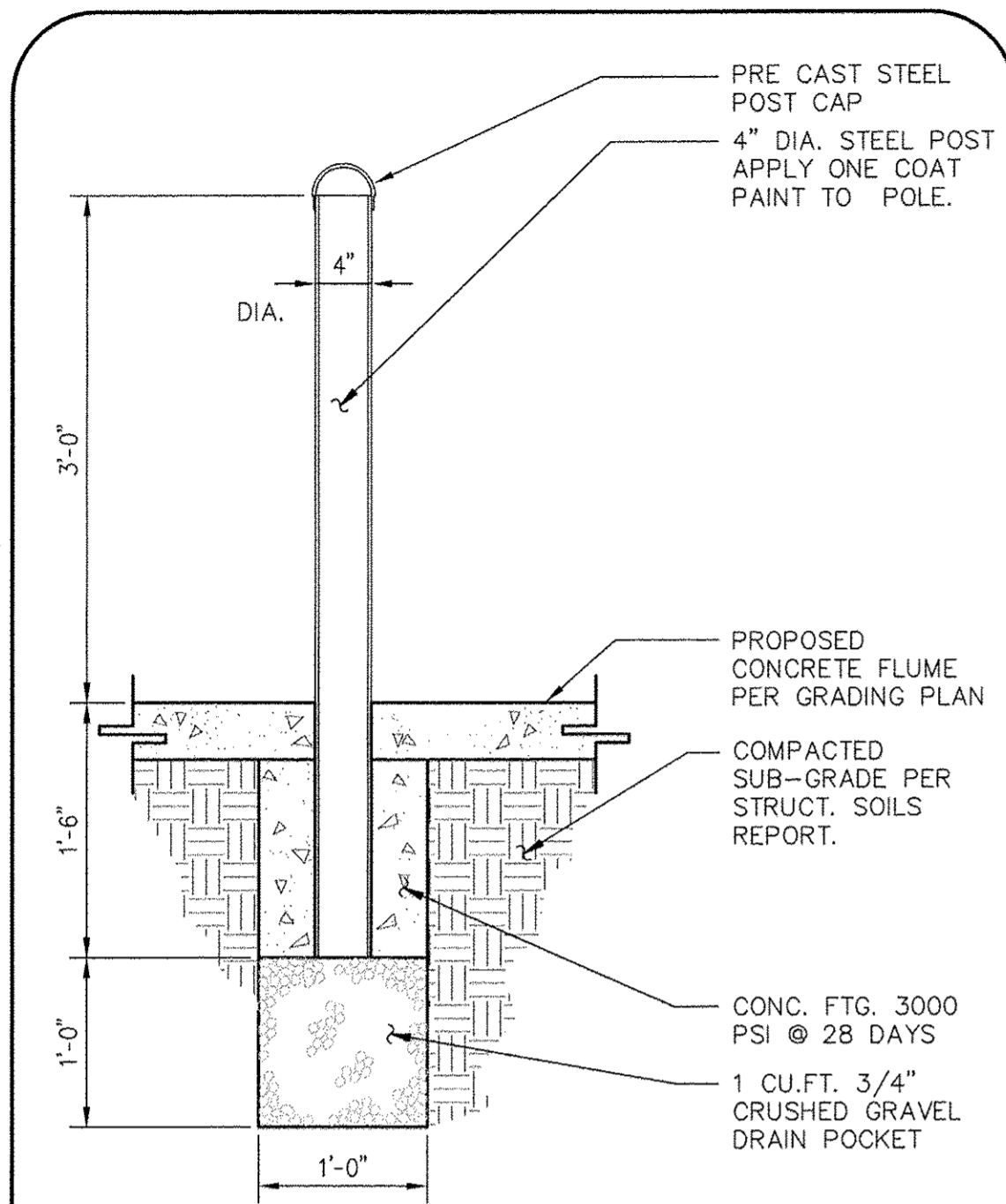
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
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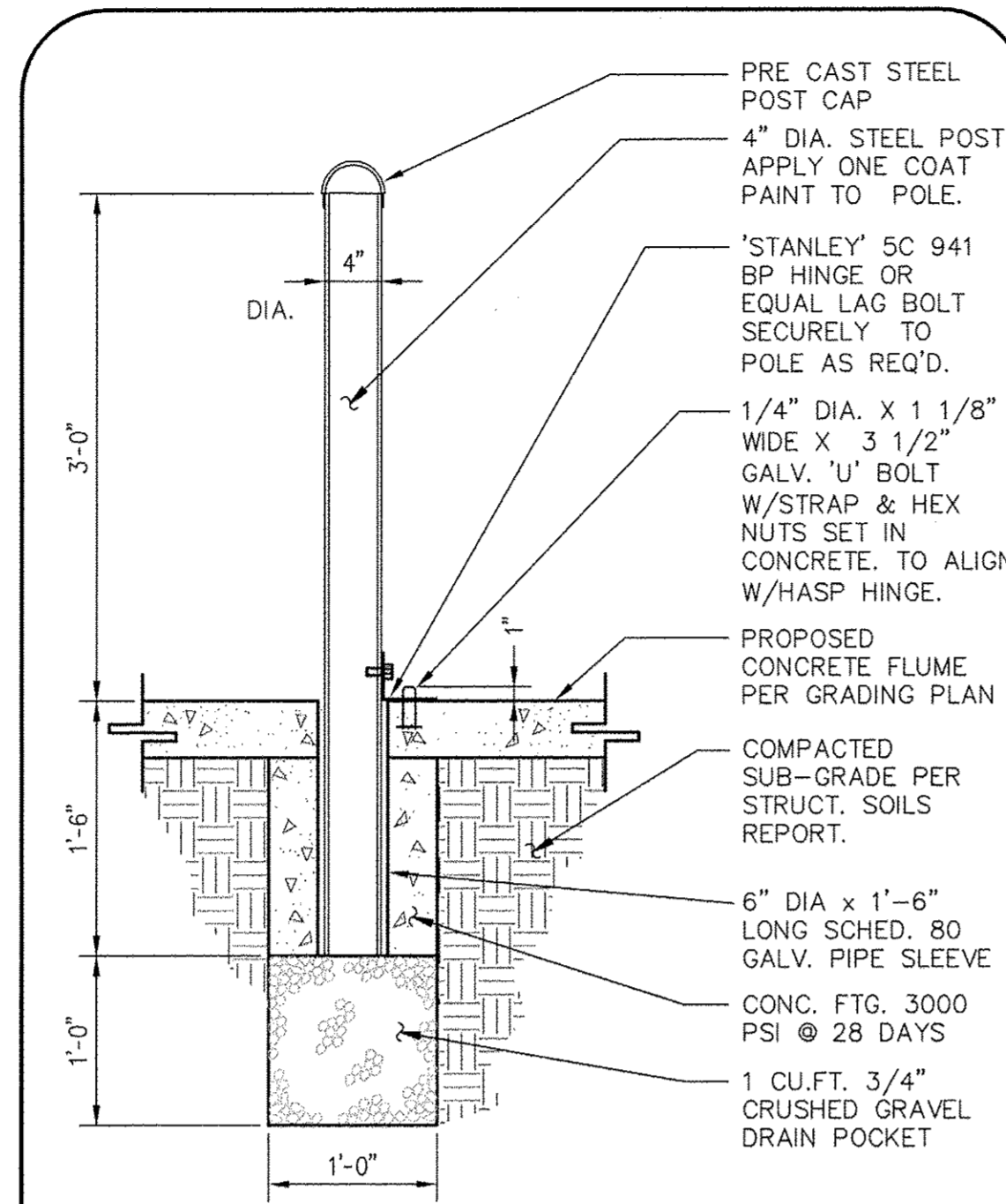
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		CCPW PROJECT #
W.O. #: 2008-62		



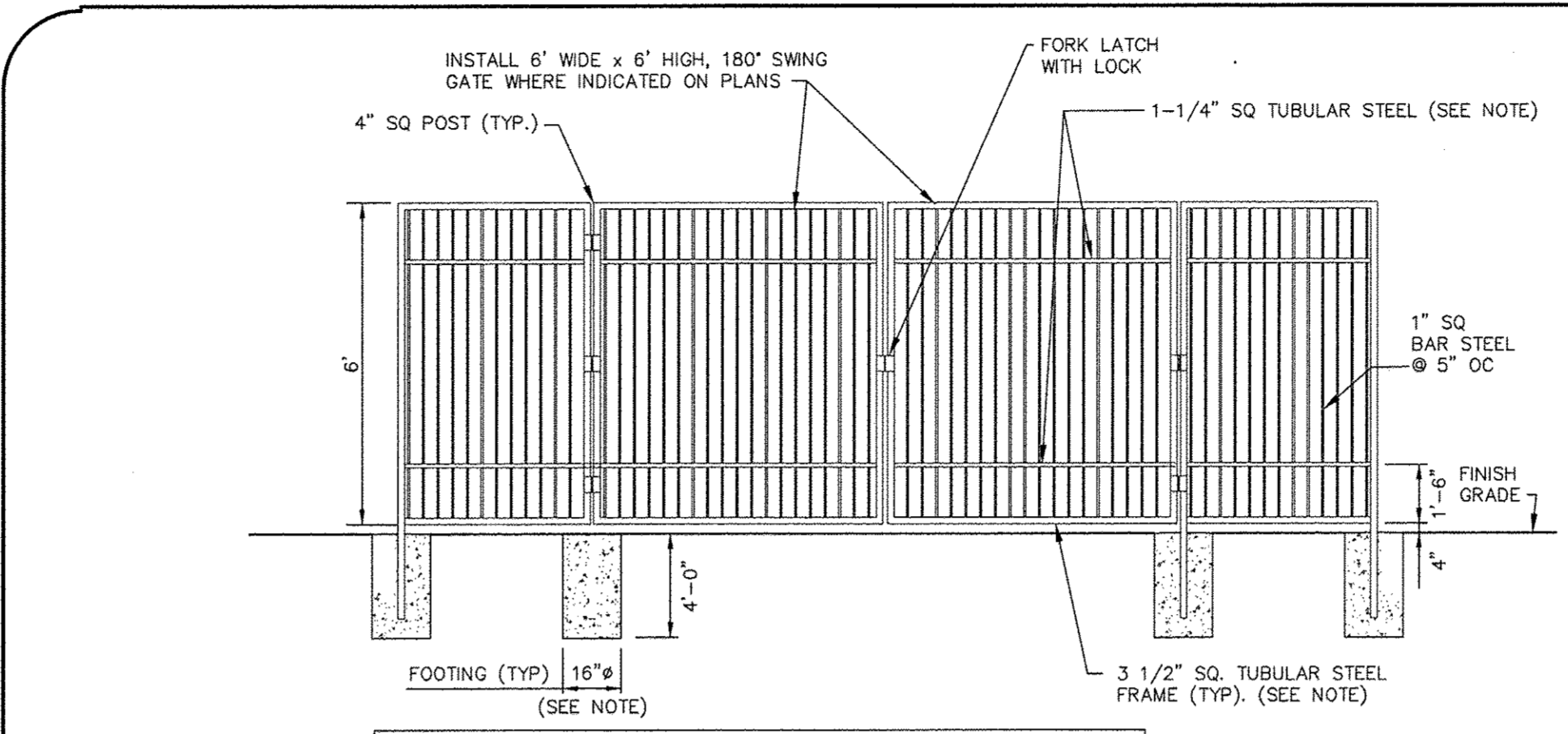
**FIXED METAL BOLLARD**  
NOT TO SCALE

7  
RSD55



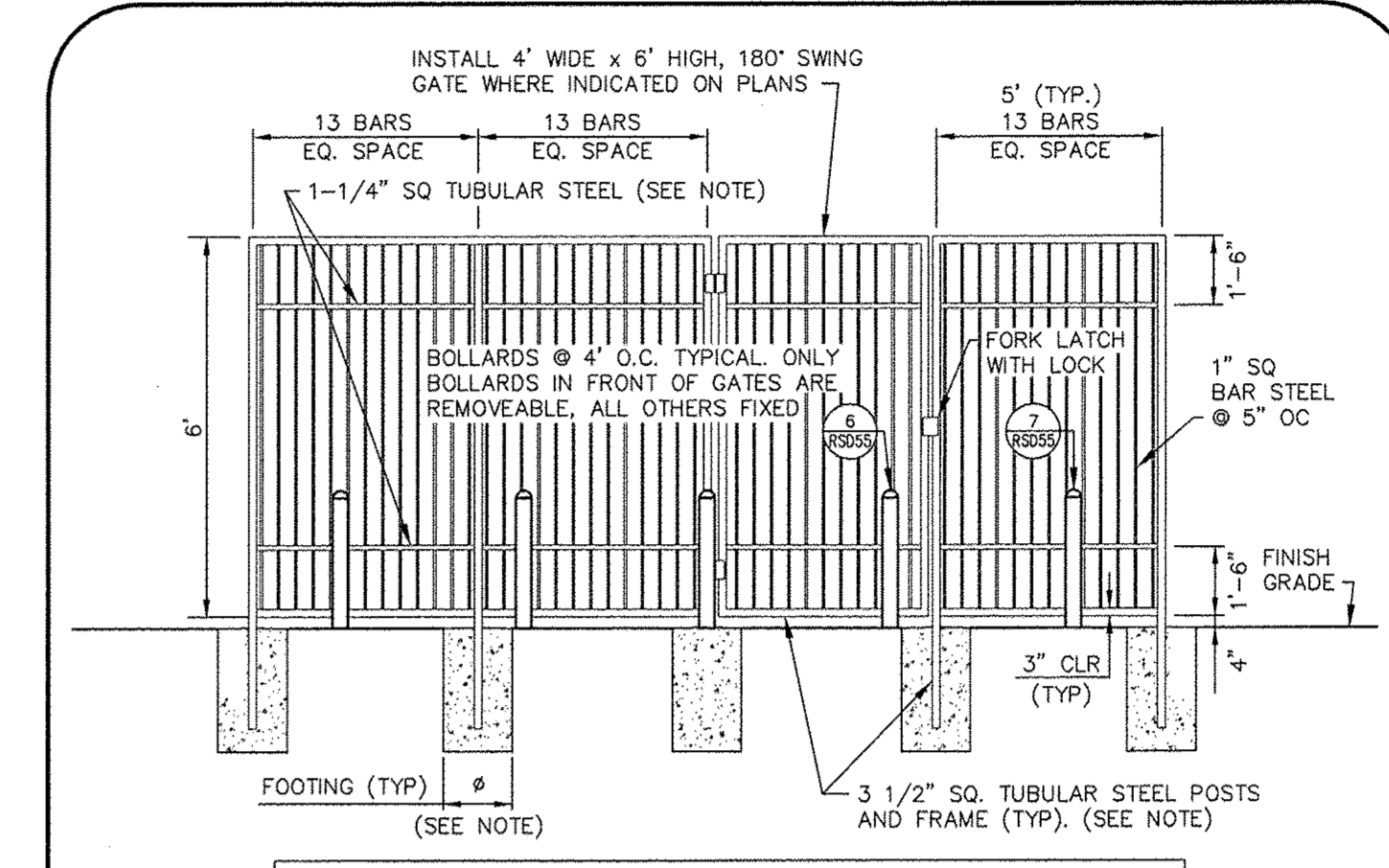
**REMOVABLE METAL BOLLARD**  
NOT TO SCALE

6  
RSD55



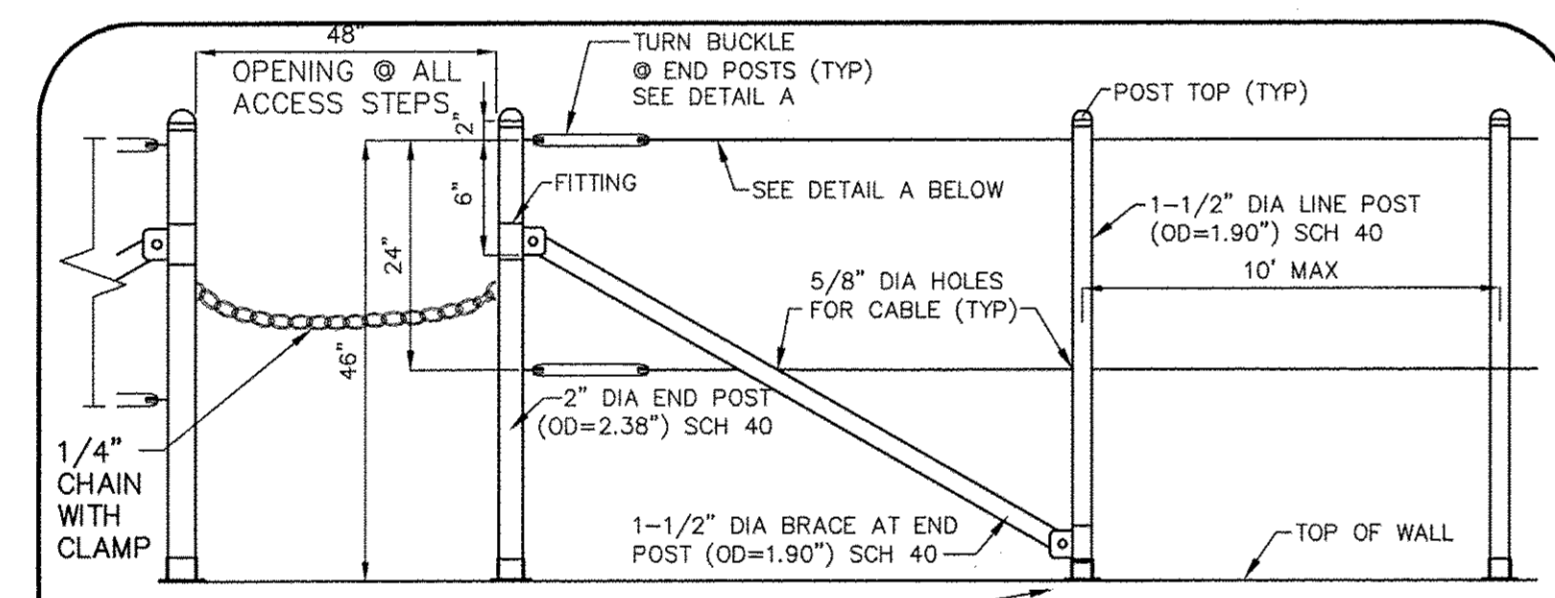
**METAL PICKET DOUBLE SWING GATE**  
N.T.S.

4  
RSD55

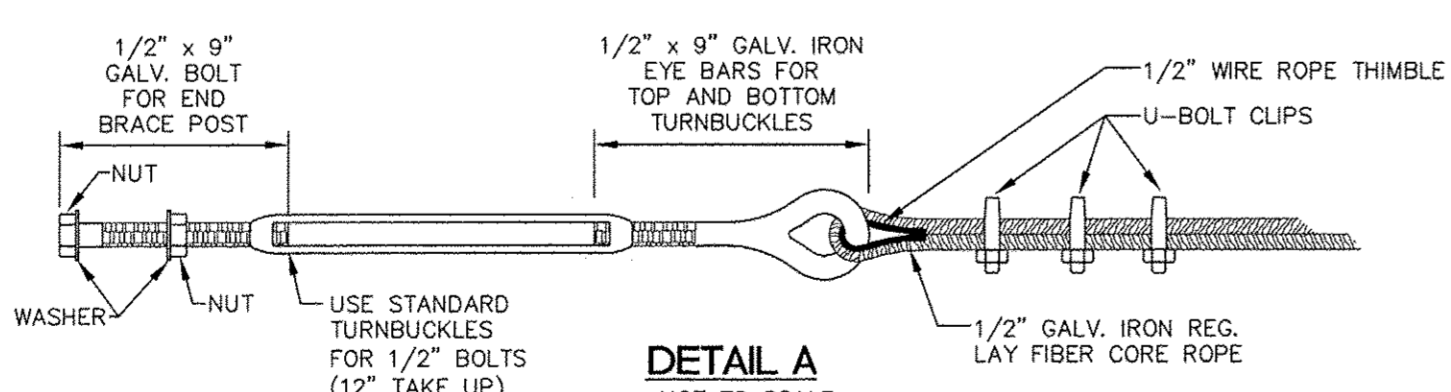


**METAL PICKET FENCE**  
N.T.S.

2  
RSD55

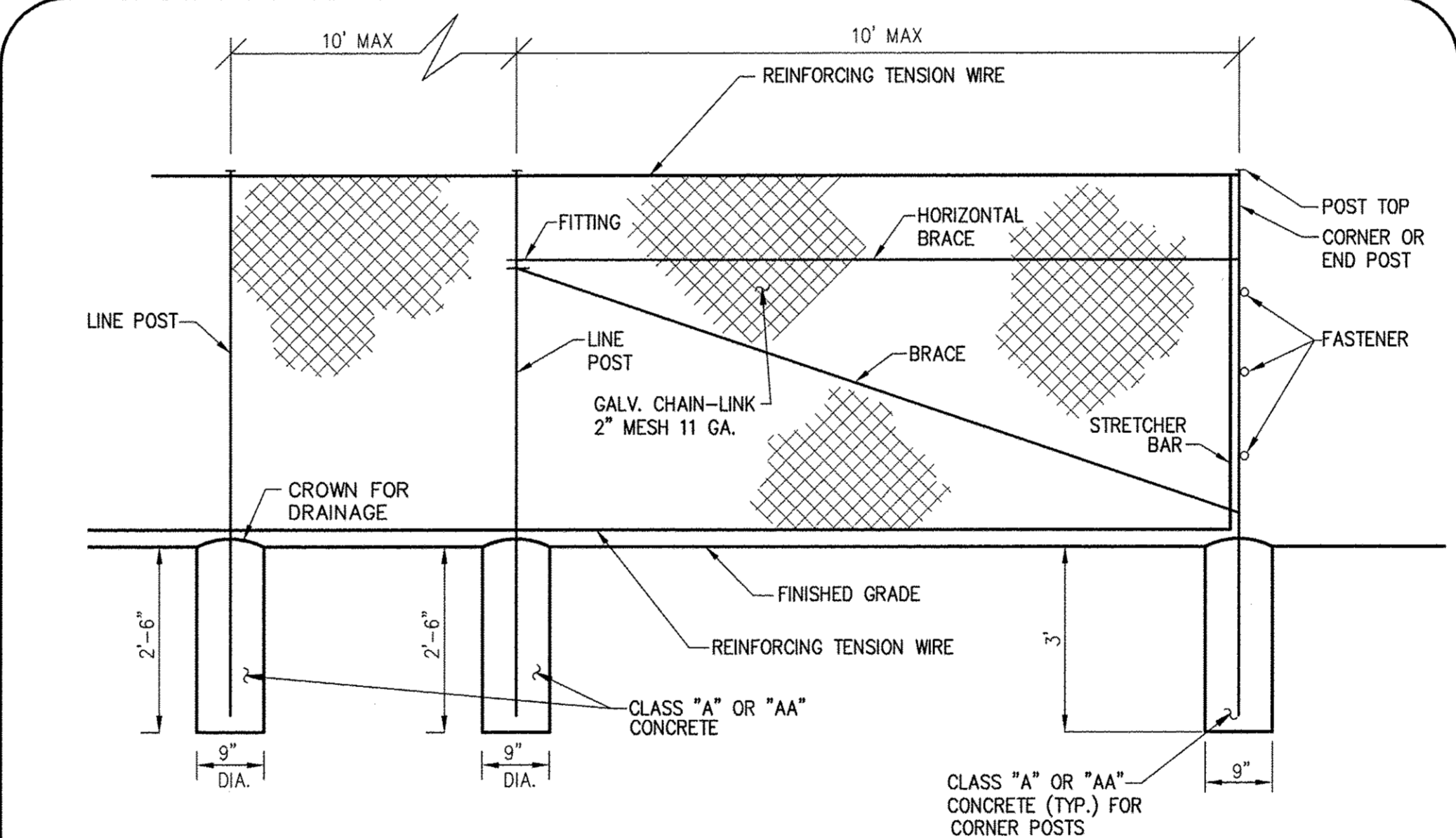


**ELEVATION VIEW**  
NOT TO SCALE



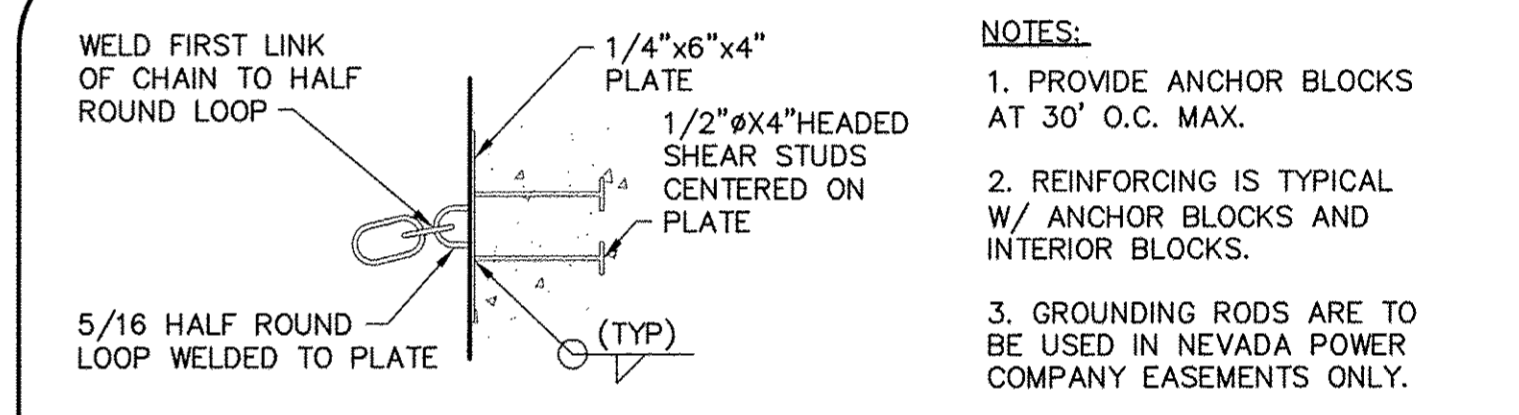
**POST AND CABLE RAILING**  
NOT TO SCALE

5  
RSD55



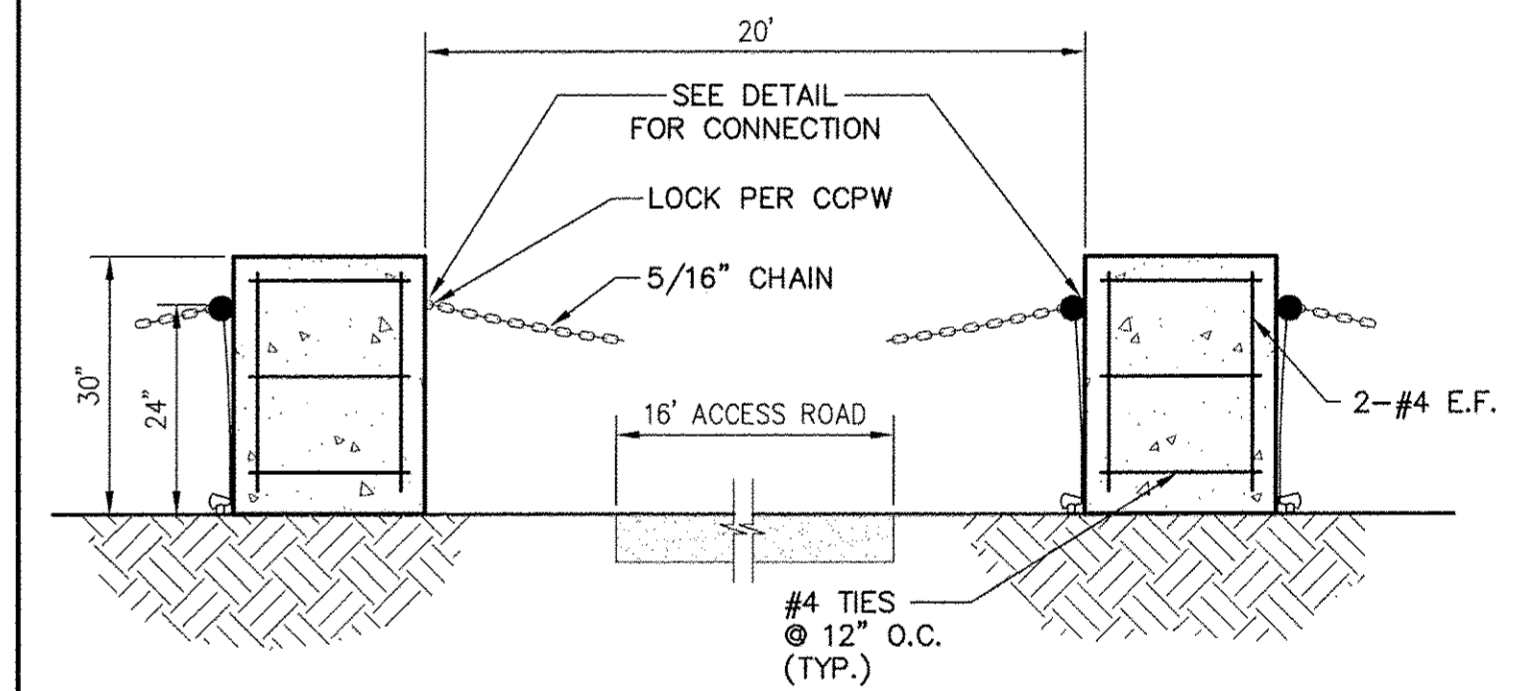
**CHAIN-LINK FENCE DETAIL**  
NOT TO SCALE

3  
RSD55

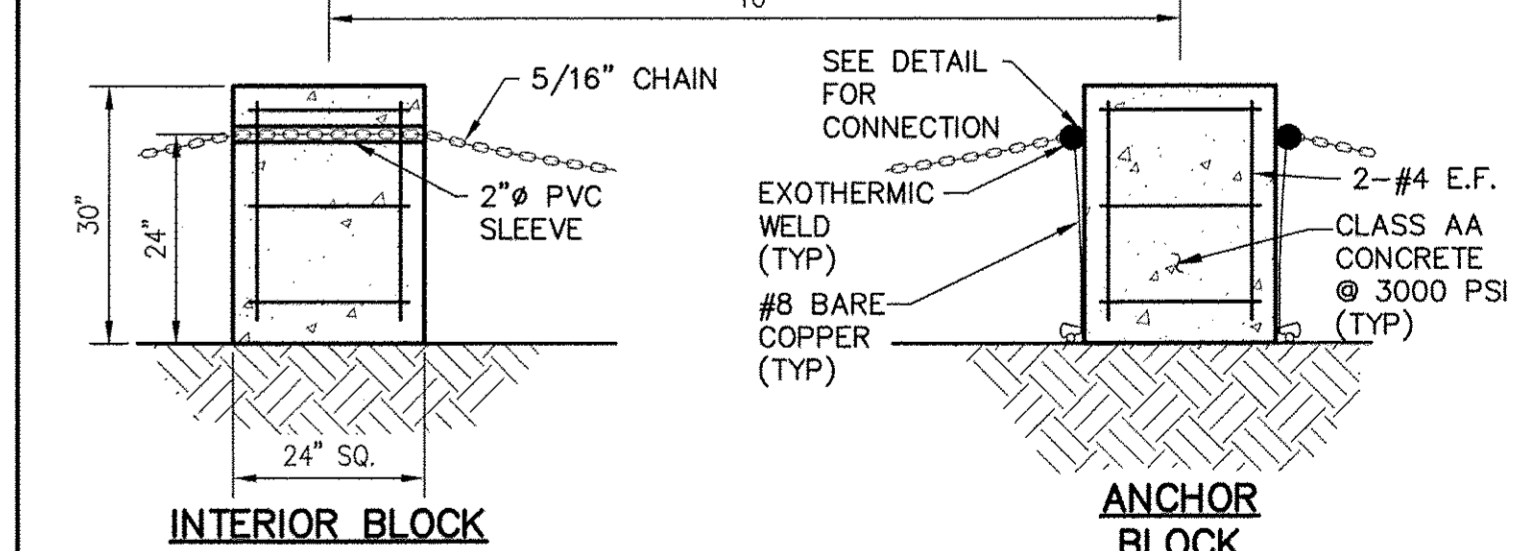


**CONNECTION DETAIL**

- NOTES:**
1. PROVIDE ANCHOR BLOCKS AT 30' O.C. MAX.
  2. REINFORCING IS TYPICAL W/ ANCHOR BLOCKS AND INTERIOR BLOCKS.
  3. GROUNDING RODS ARE TO BE USED IN NEVADA POWER COMPANY EASEMENTS ONLY.



**LOCKABLE GATE DETAIL**



**CONCRETE BLOCK AND CHAIN FENCE**  
NOT TO SCALE

1  
RSD55

- NOTES:**
1. FENCING SHALL BE CHAIN-LINK AND SHALL CONSIST OF GALVANIZED CHAIN-LINK FABRIC ON STEEL POSTS.
  - (A) ALL POST TOPS SHALL BE FITTED WITH SUITABLE FINIALS.
  - (B) BRACES SHALL BE SPACED APPROXIMATELY 12" BELOW TOP OF TERMINAL POSTS AND SHALL EXTEND FROM END, GATE, OR CORNER POSTS TO FIRST ADJACENT LINE POST.
  - (C) ALL FITTINGS SHALL BE HOT DIPPED GALVANIZED MALLEABLE, CAST IRON, OR PRESSED STEEL.
  - (D) TOP AND BOTTOM SELVAGES OF THE FENCE SHALL HAVE A TWISTED AND BARBED FINISH.
  - (E) BRACES SHALL NOT SPAN ACROSS AN EXPANSION JOINT.

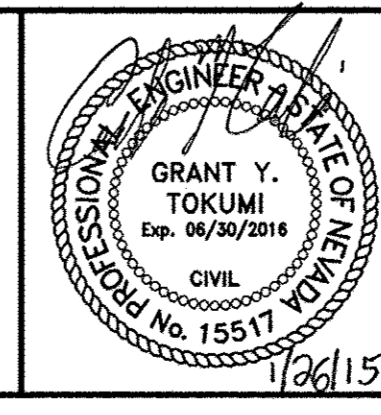
TABLE 1 FOR 6' HIGH CHAIN-LINK FENCE		
LOCATION	MIN. SIZE	MIN. WEIGHT
END, CORNER AND PULL	2.351 O.D.	3.10
LINE	2.00 O.D.	2.72
BRACES	1.63 O.D.	2.27
TOP RAIL	1.63 O.D.	2.27

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
DETAILS

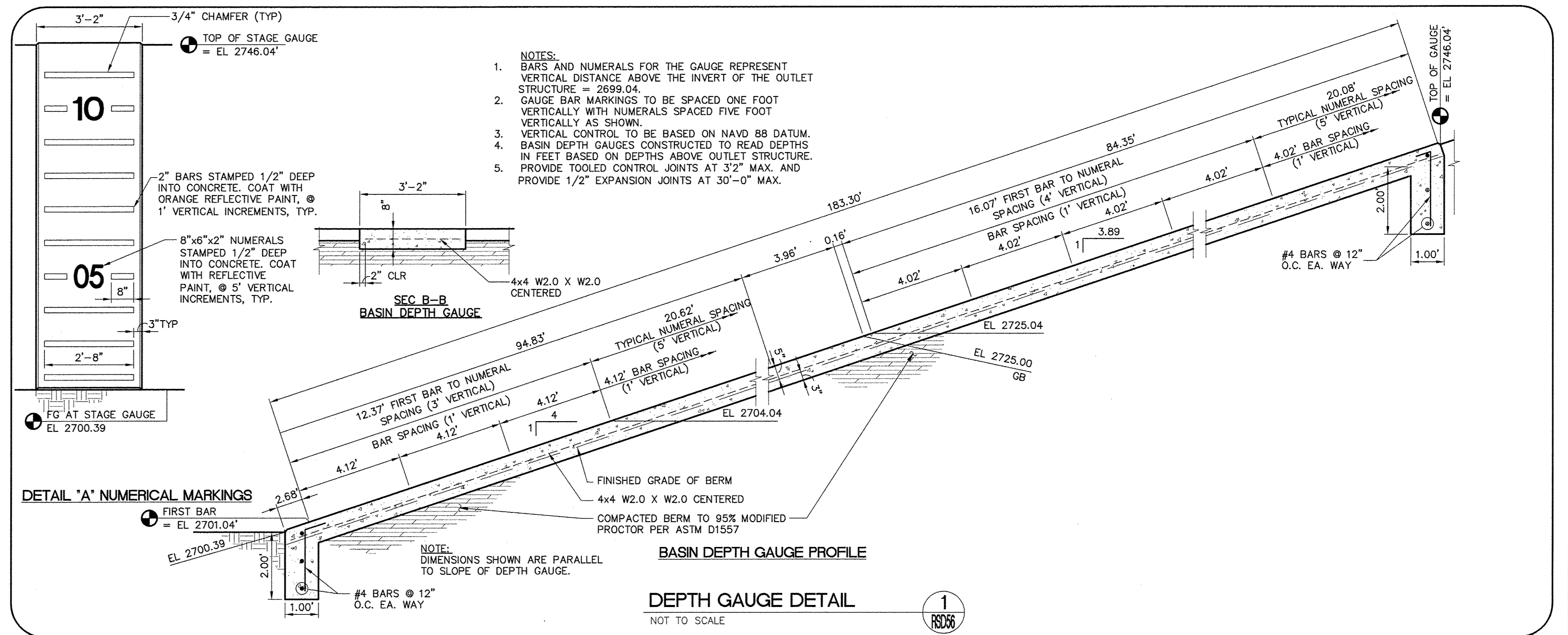
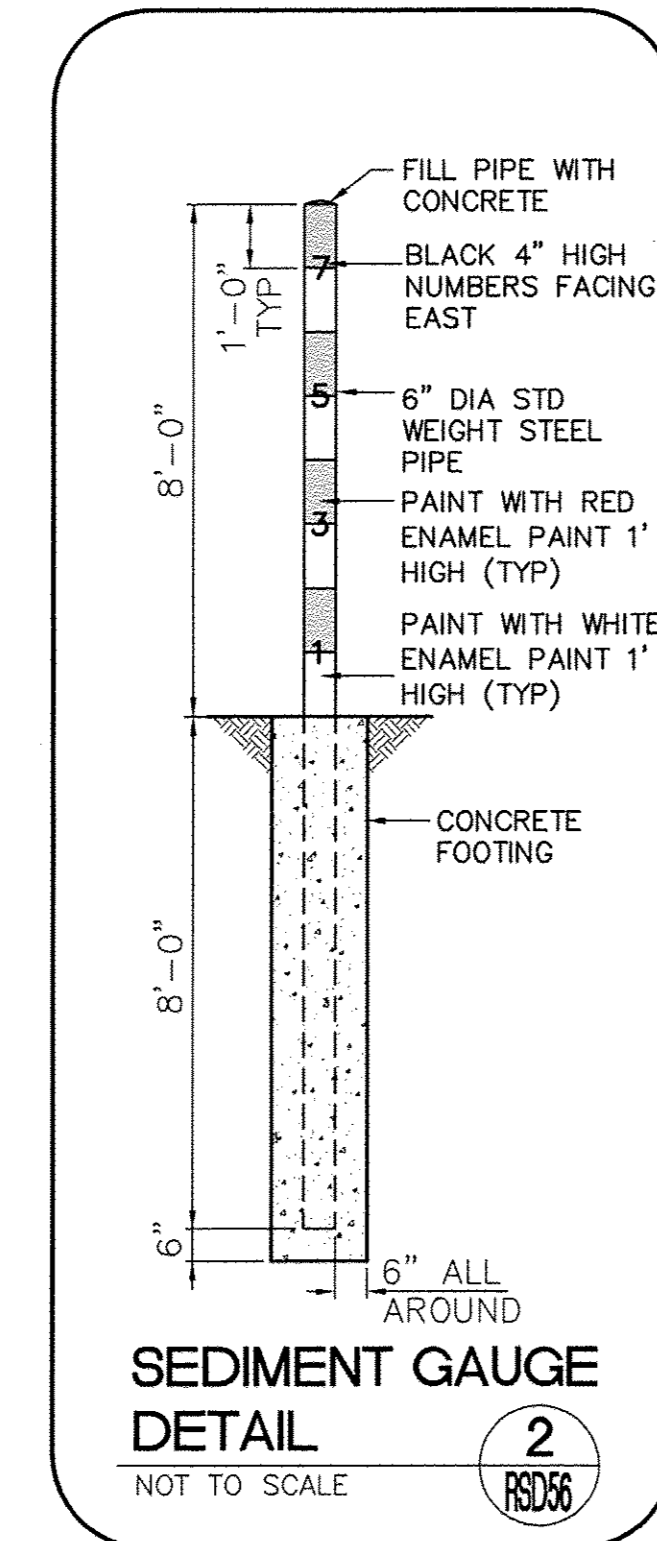
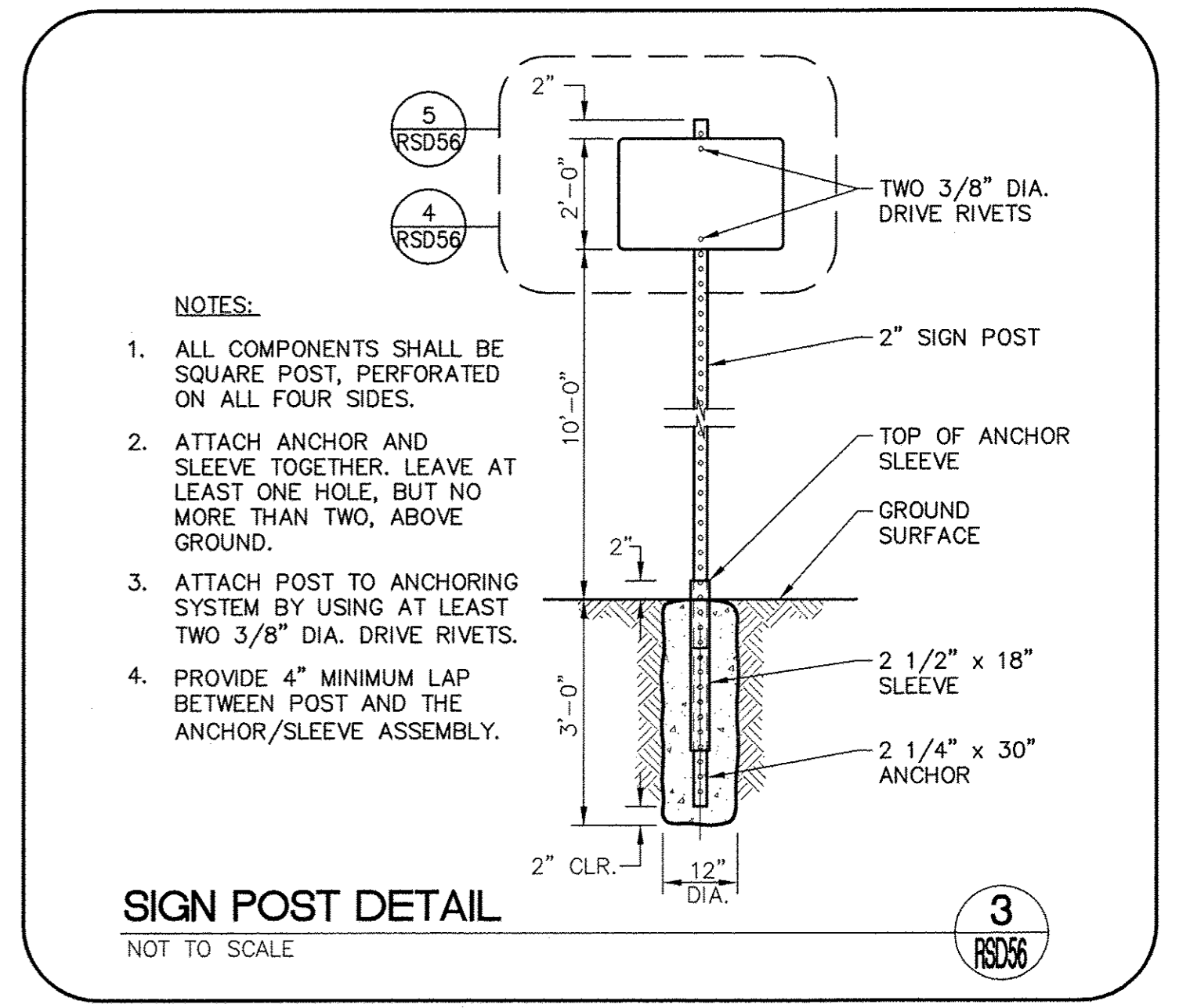
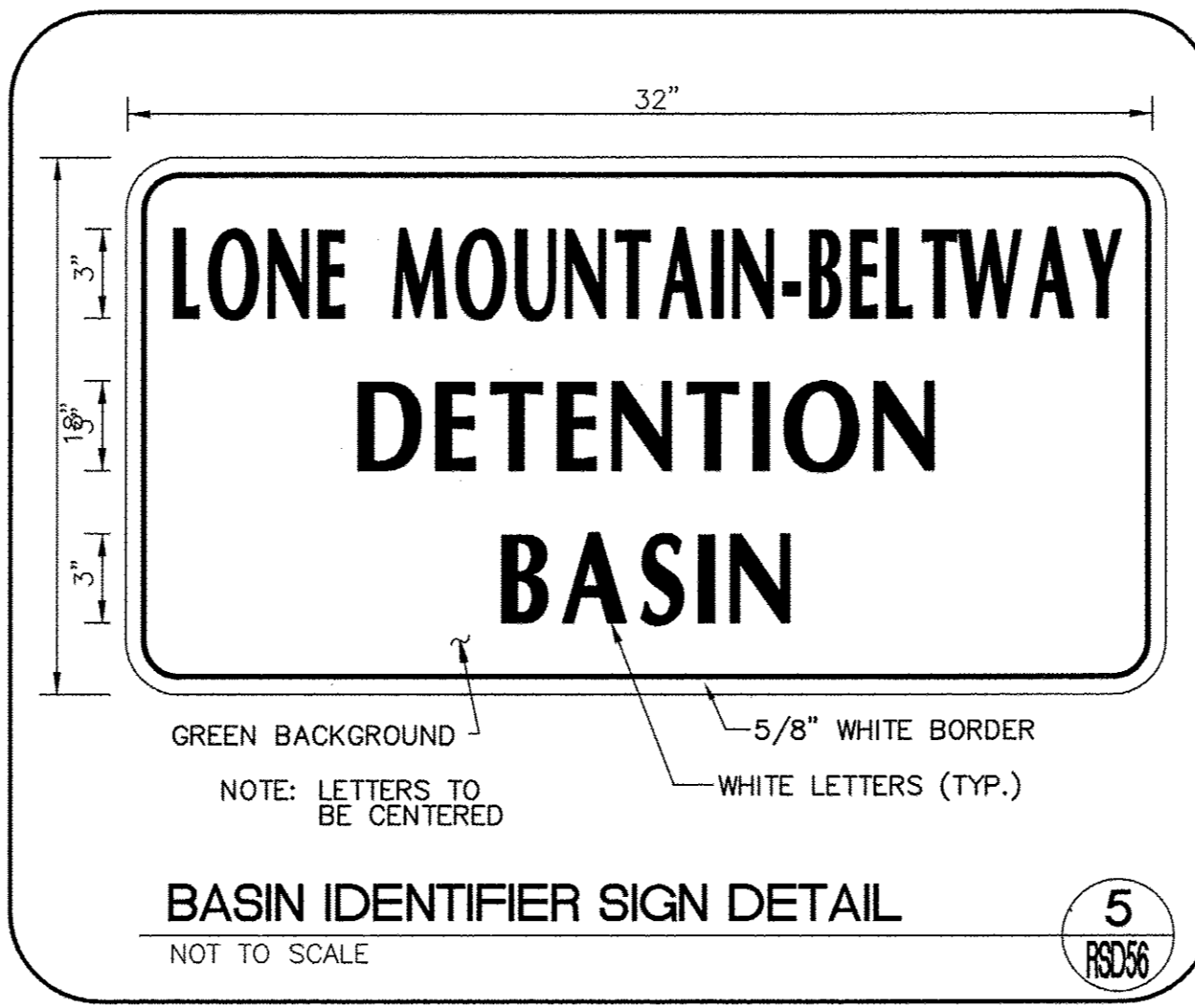
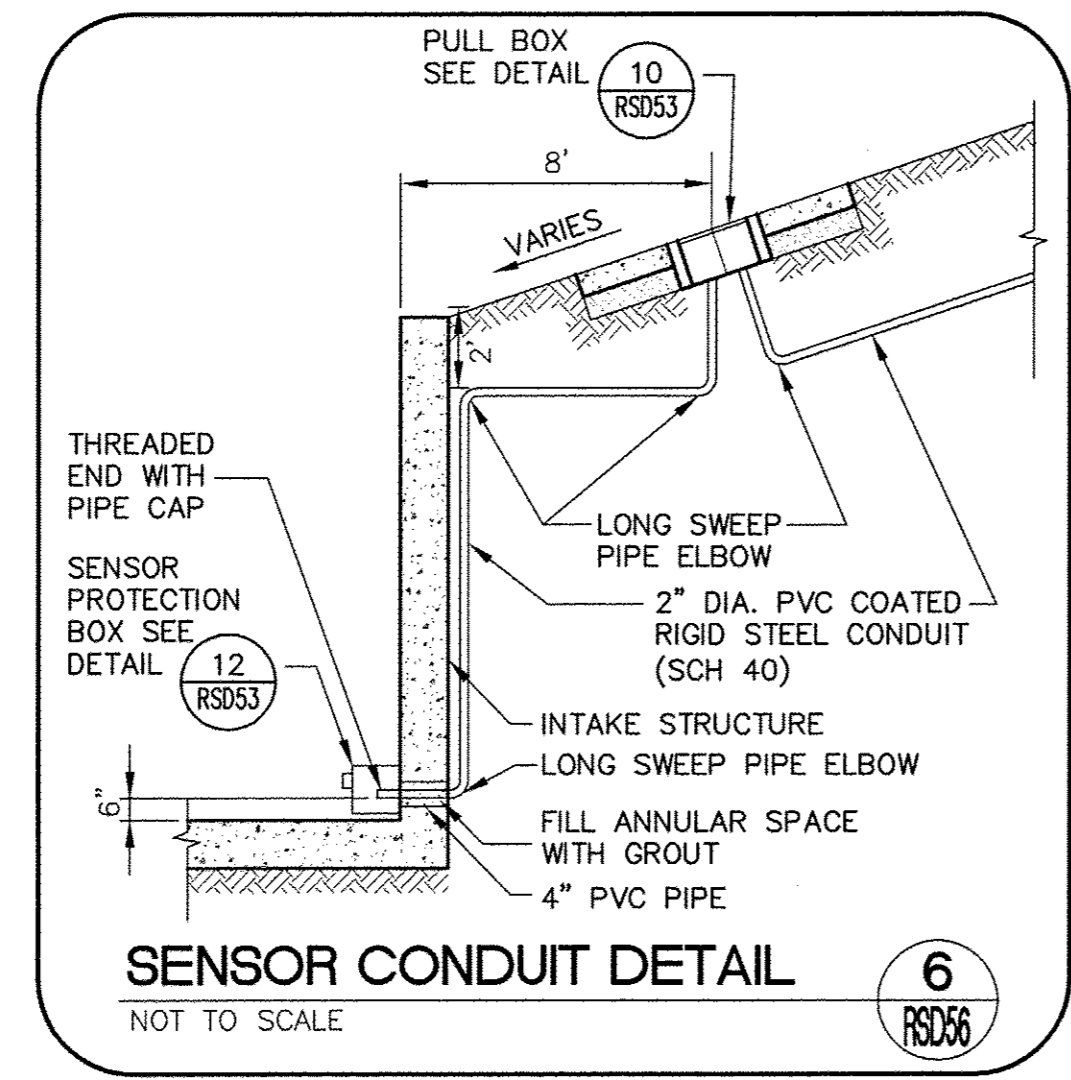
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		COPW PROJECT #
W.O. #: 2008-62		

BID. NO. 603576-15



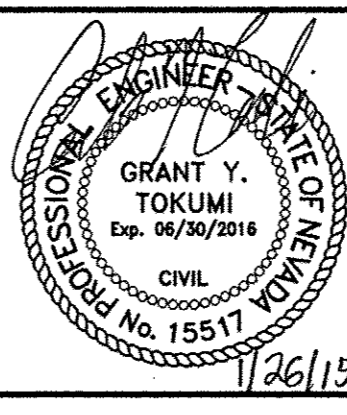
- NOTES:**
1. BARS AND NUMERALS FOR THE GAUGE REPRESENT VERTICAL DISTANCE ABOVE THE INVERT OF THE OUTLET STRUCTURE = 2699.04.
  2. GAUGE BAR MARKINGS TO BE SPACED ONE FOOT VERTICALLY WITH NUMERALS SPACED FIVE FOOT VERTICALLY AS SHOWN.
  3. VERTICAL CONTROL TO BE BASED ON NAVD 88 DATUM.
  4. BASIN DEPTH GAUGES CONSTRUCTED TO READ DEPTHS IN FEET BASED ON DEPTHS ABOVE OUTLET STRUCTURE.
  5. PROVIDE TOOLED CONTROL JOINTS AT 3'-2" MAX. AND PROVIDE 1/2" EXPANSION JOINTS AT 30'-0" MAX.

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
DETAILS

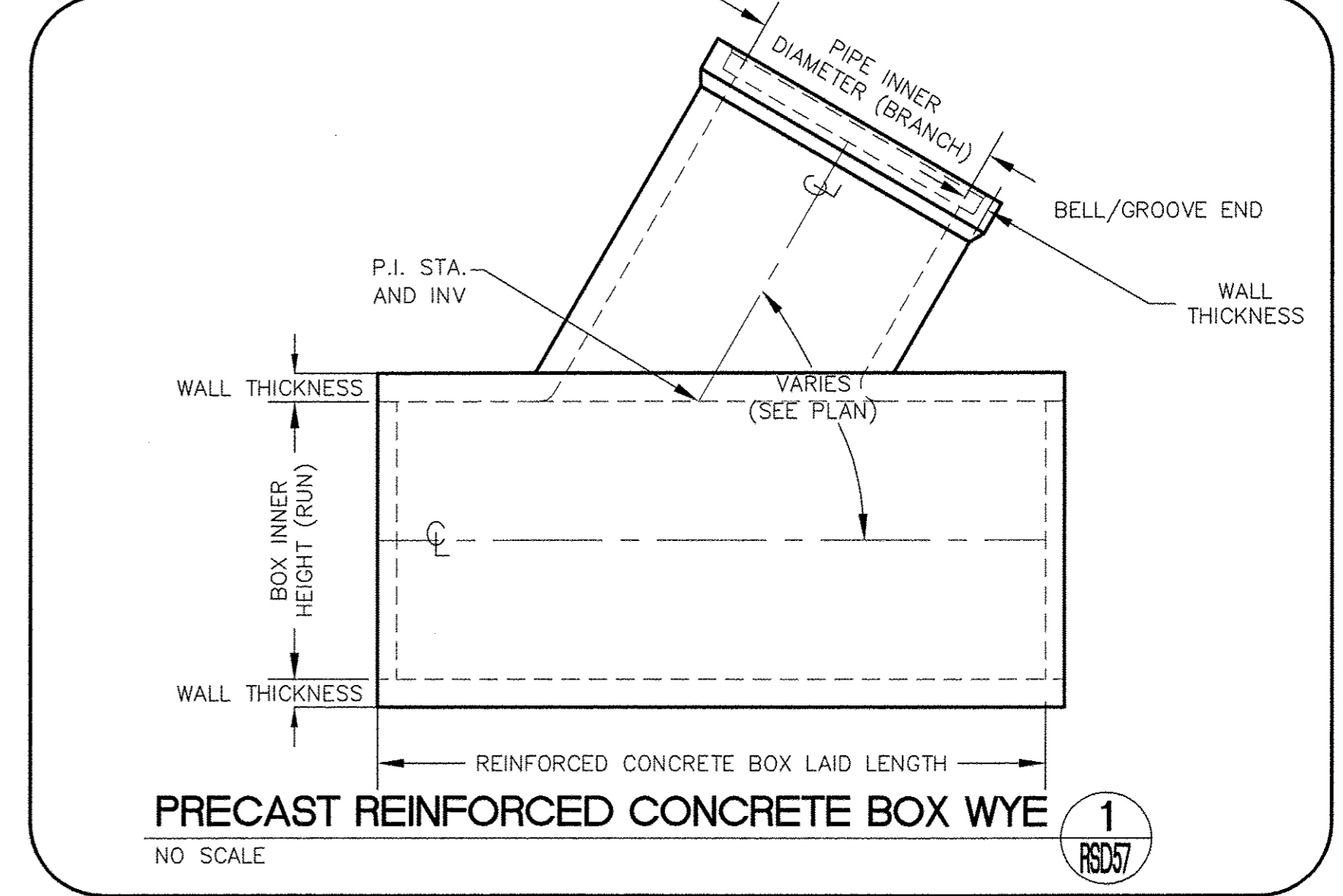
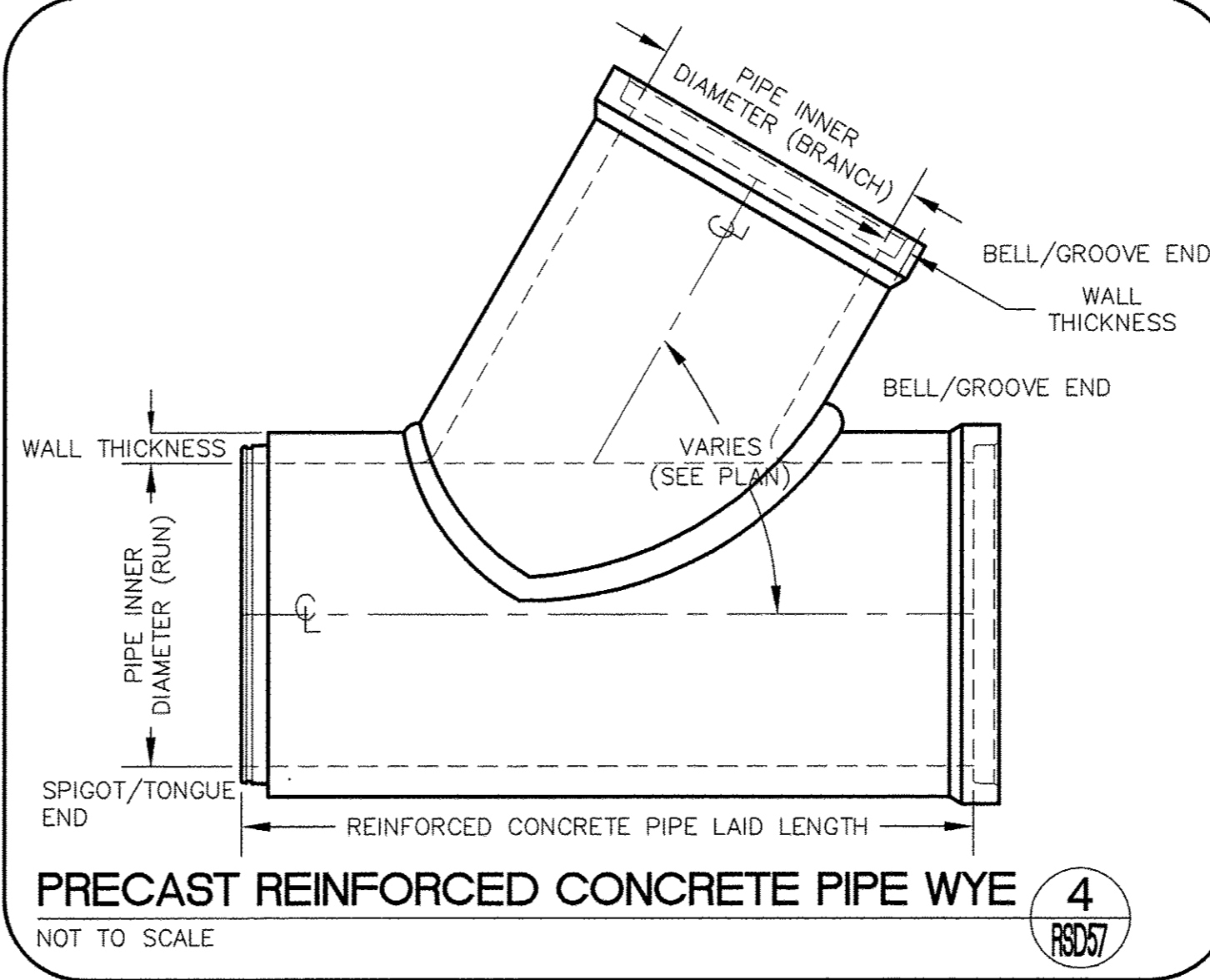
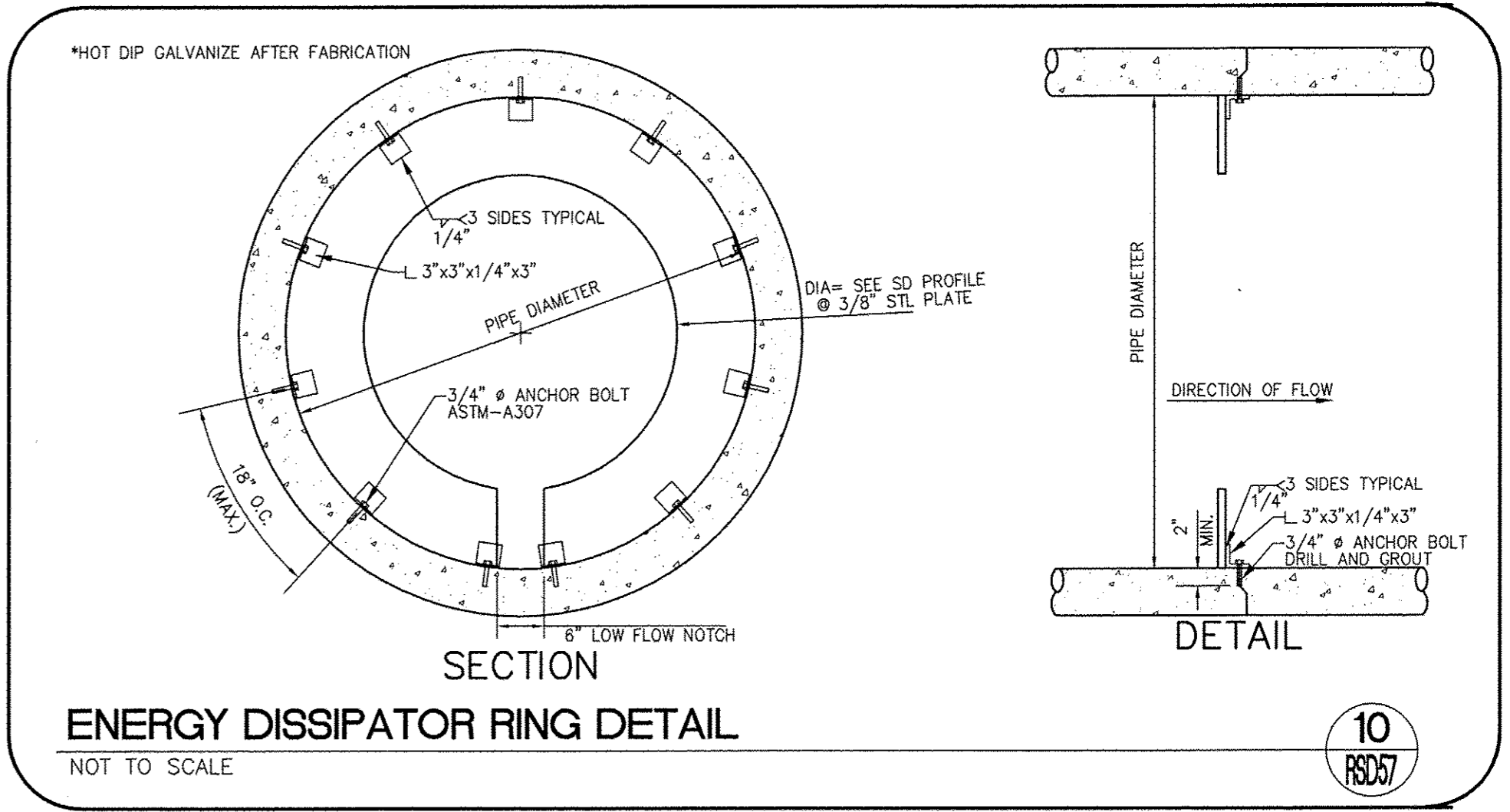
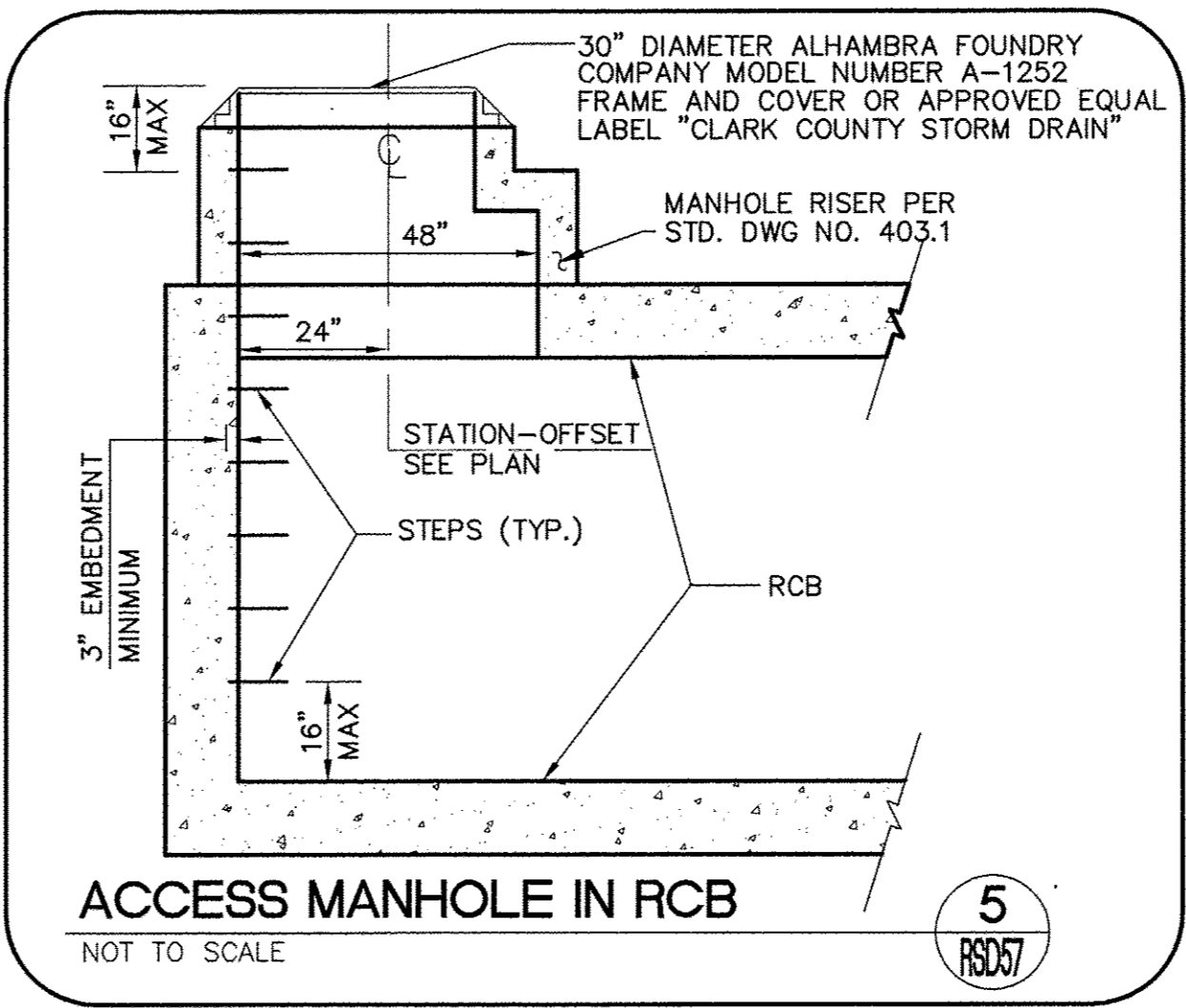
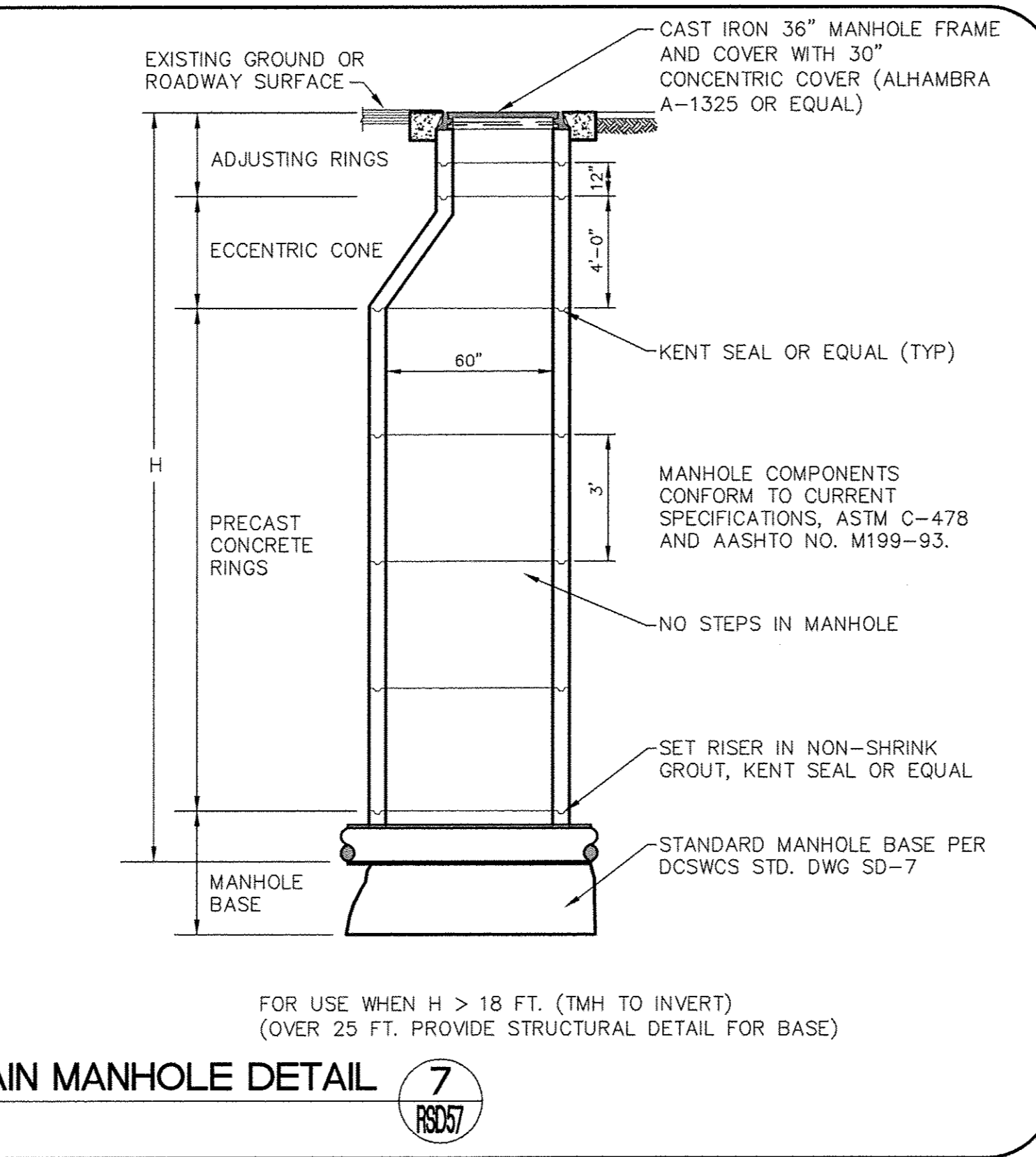
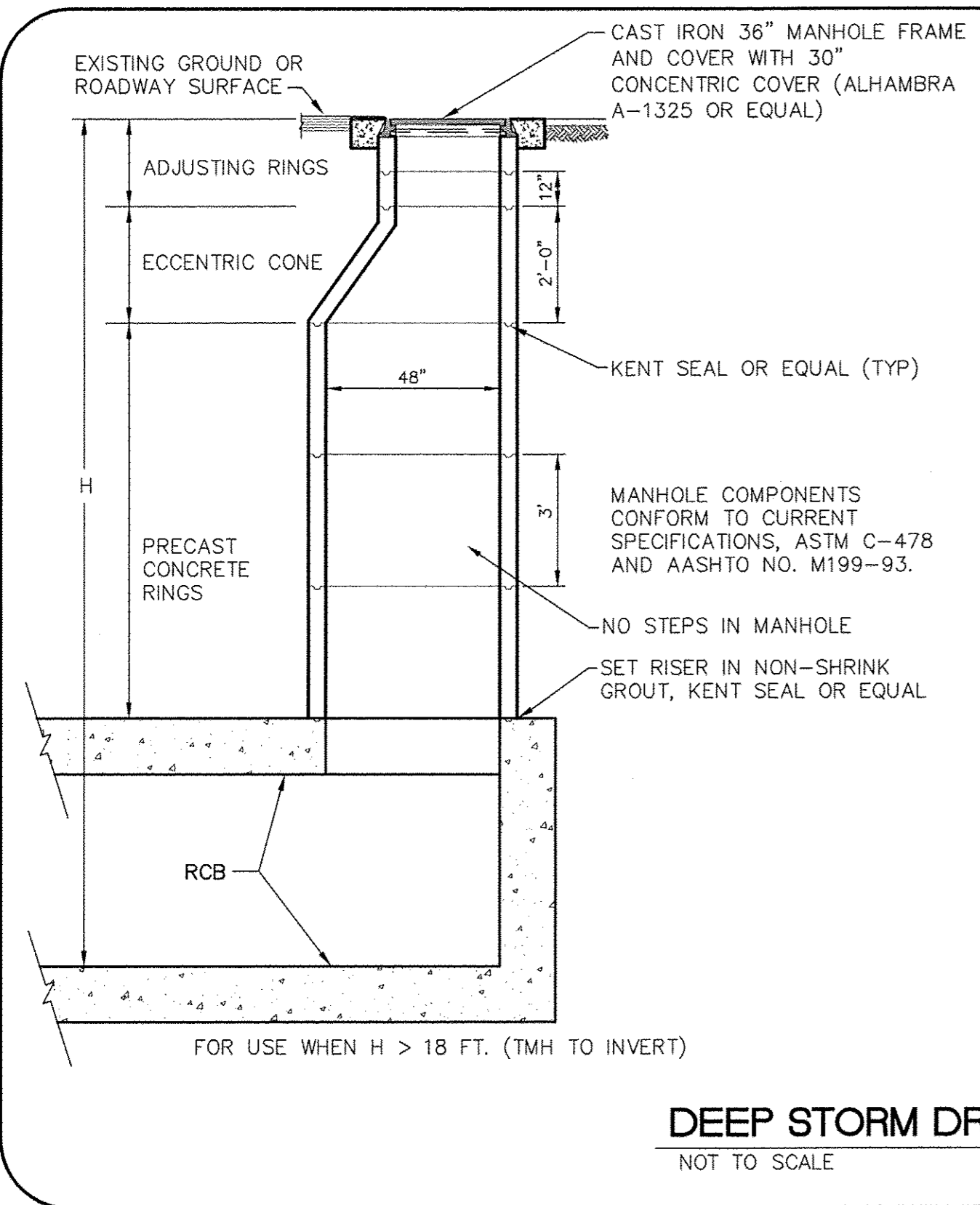
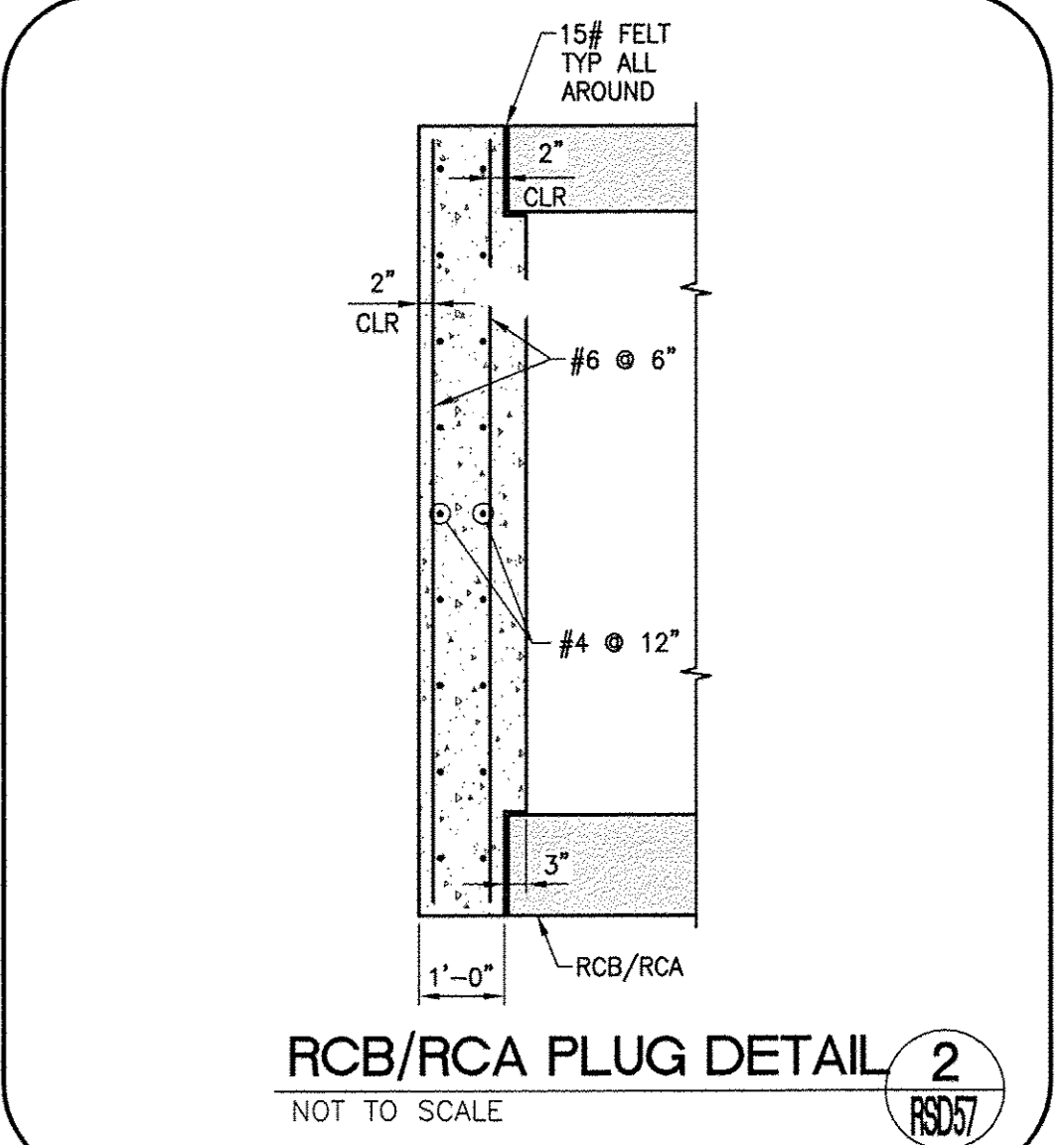
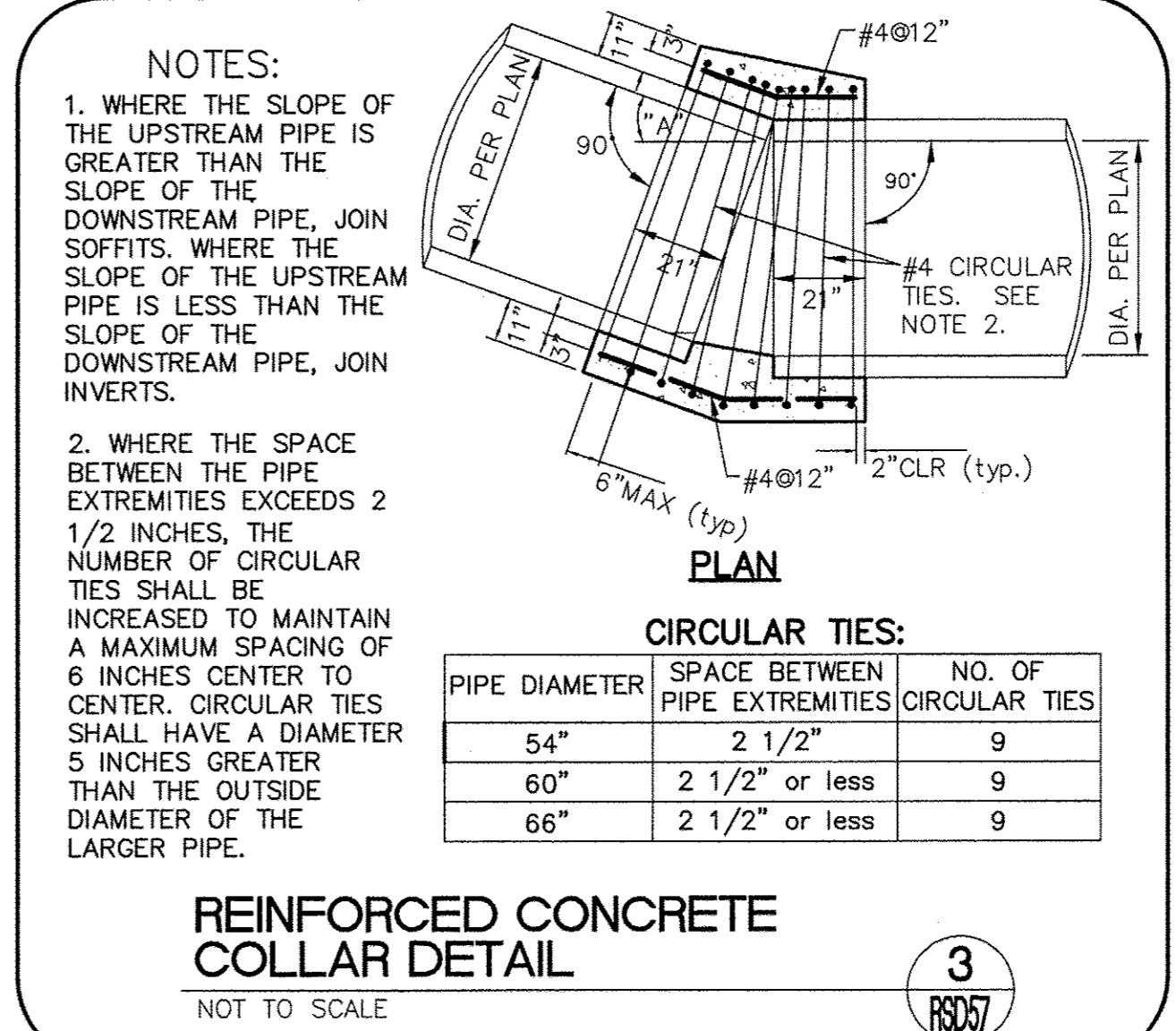
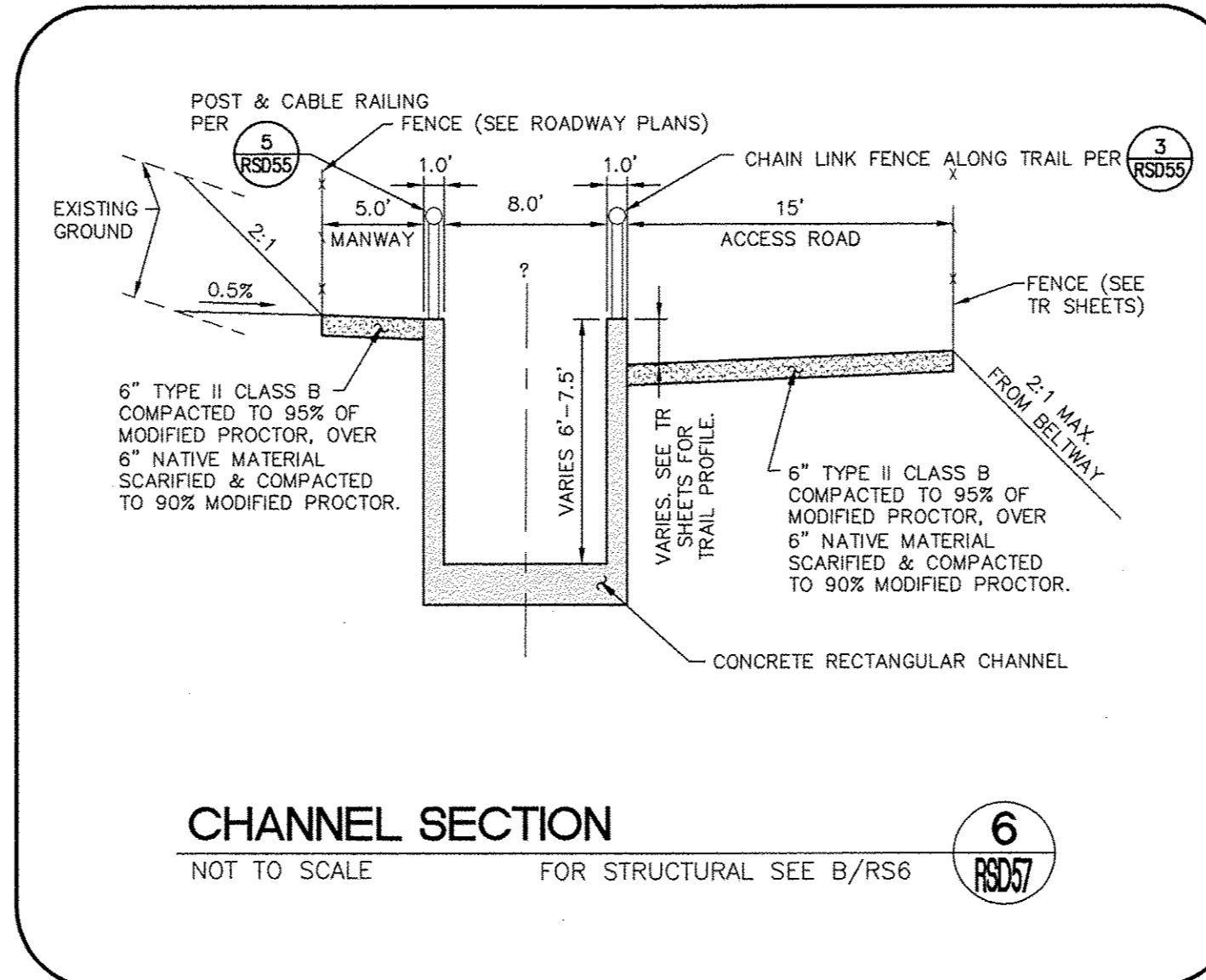
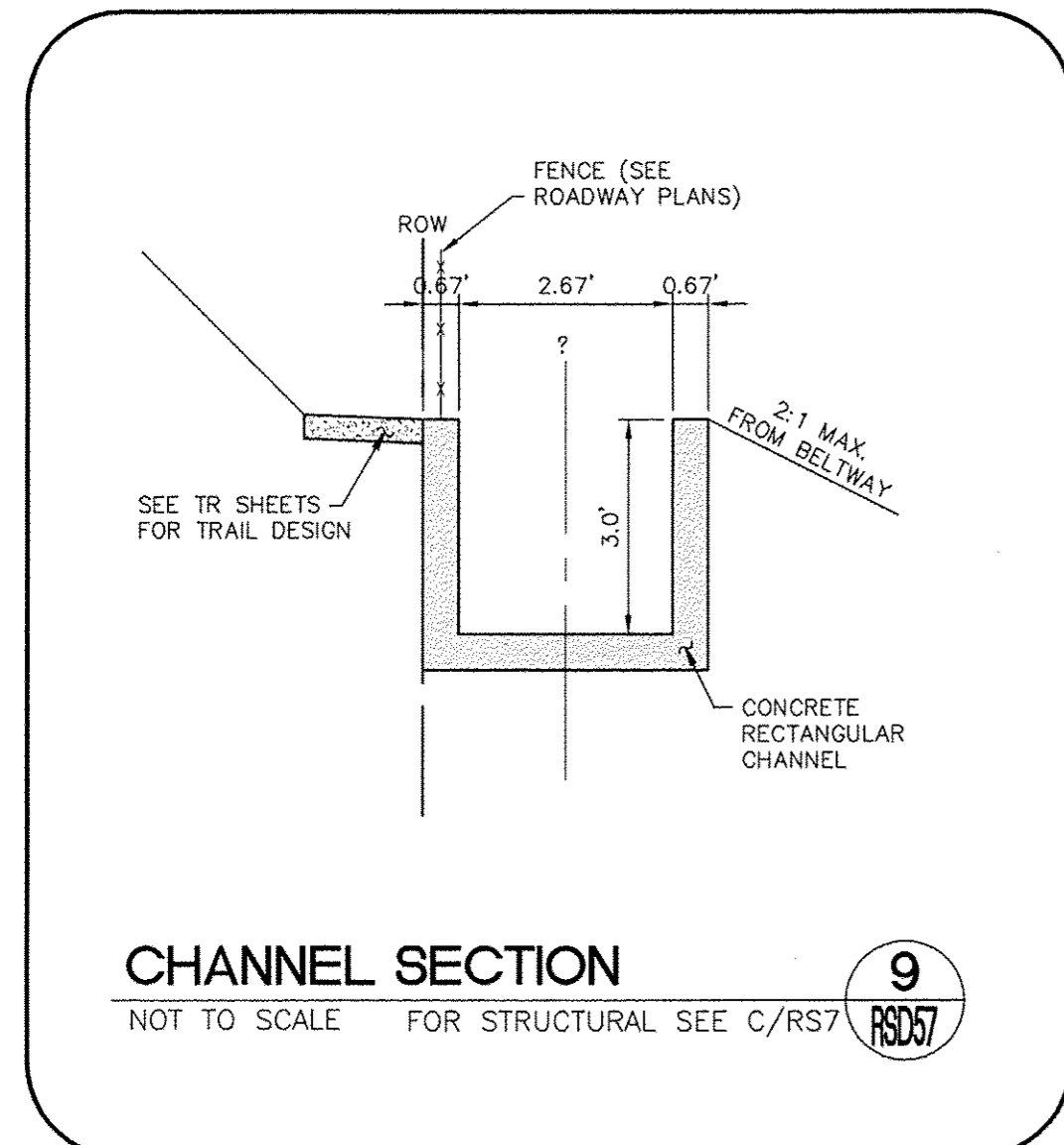
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
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**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD56
VERT:	AS SHOWN	
FIELD BOOK		SHT. 560 OF 600
W.O. #: 2008-62		

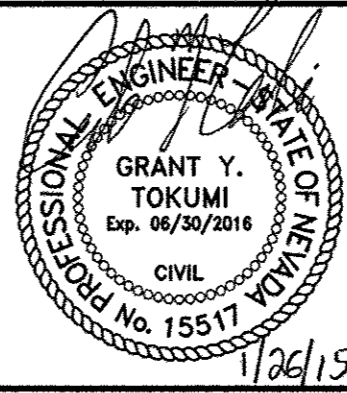


REV. NO.	DATE	DESCRIPTION	APPROVED



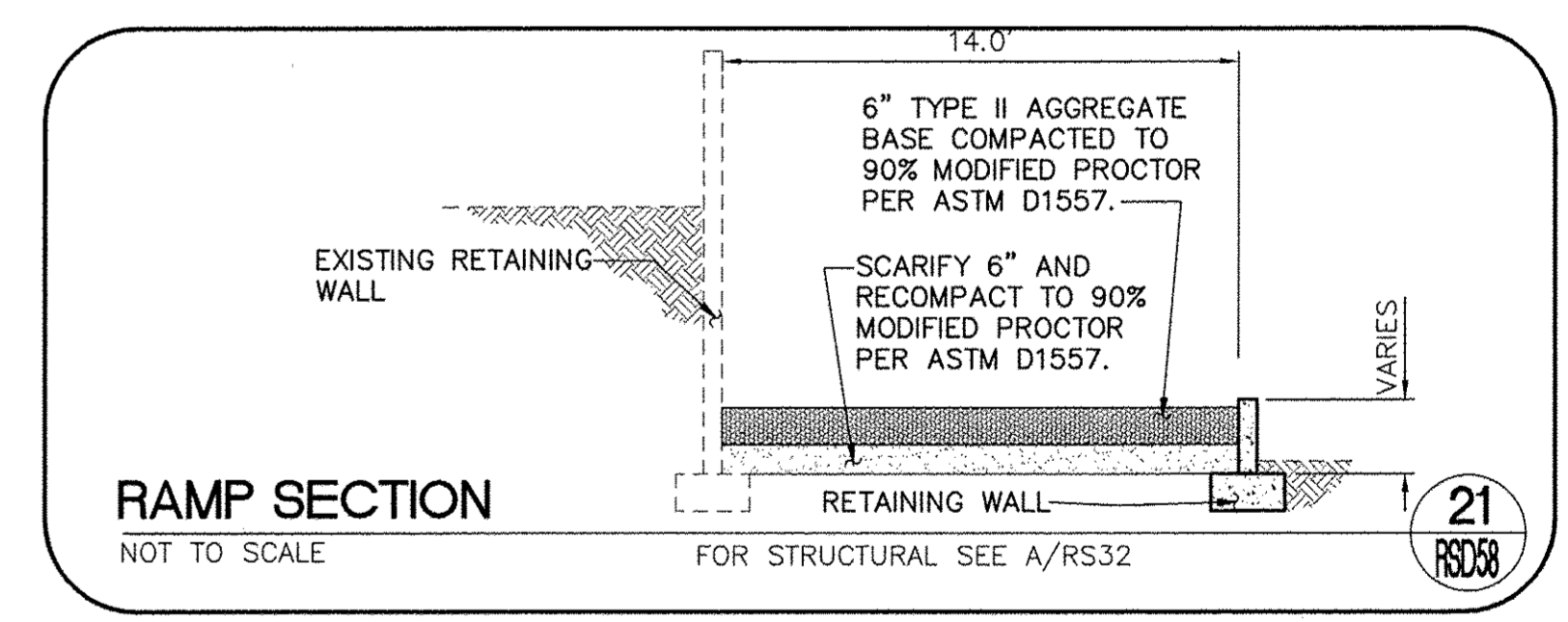
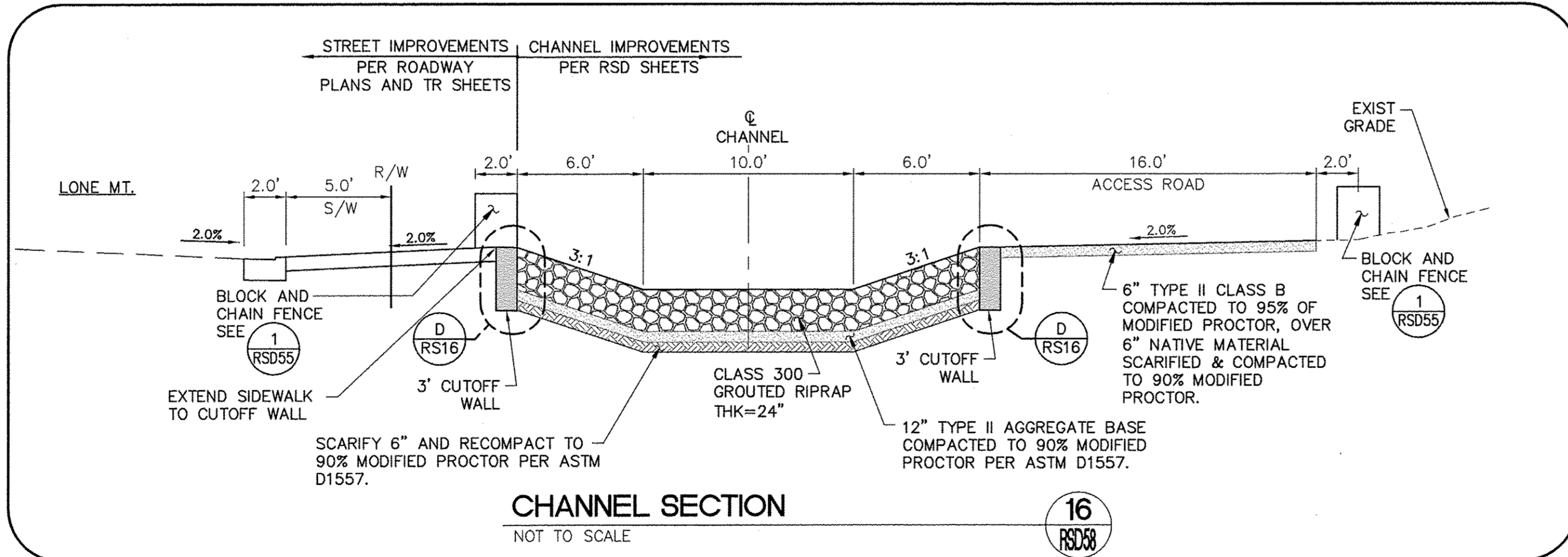
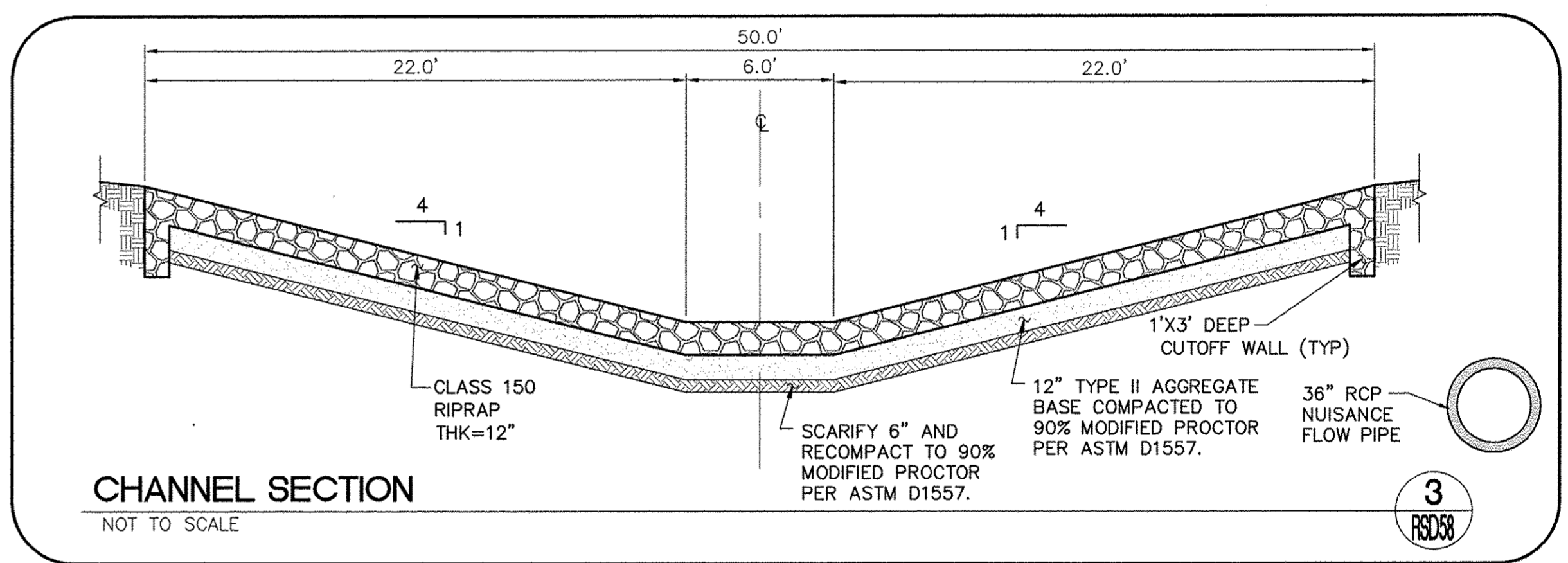
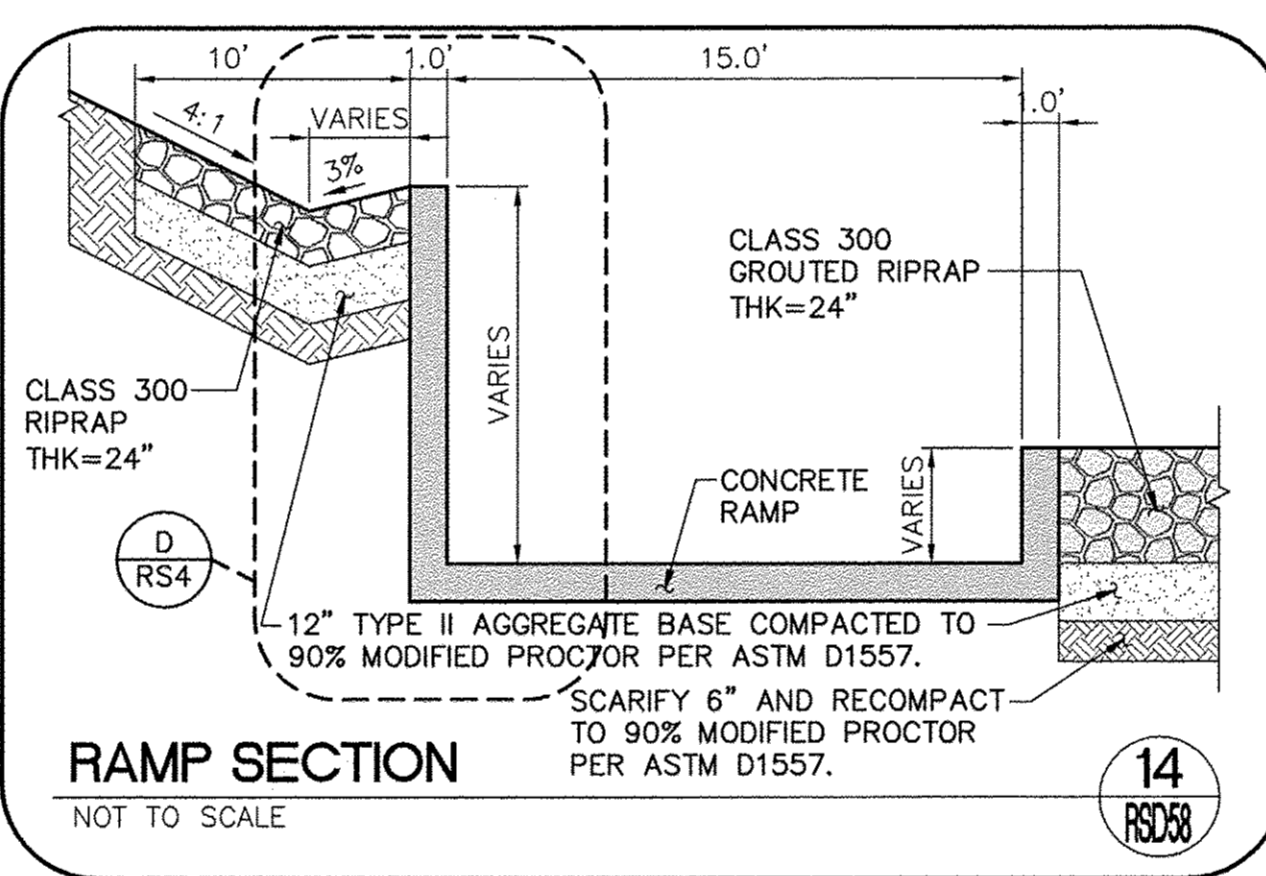
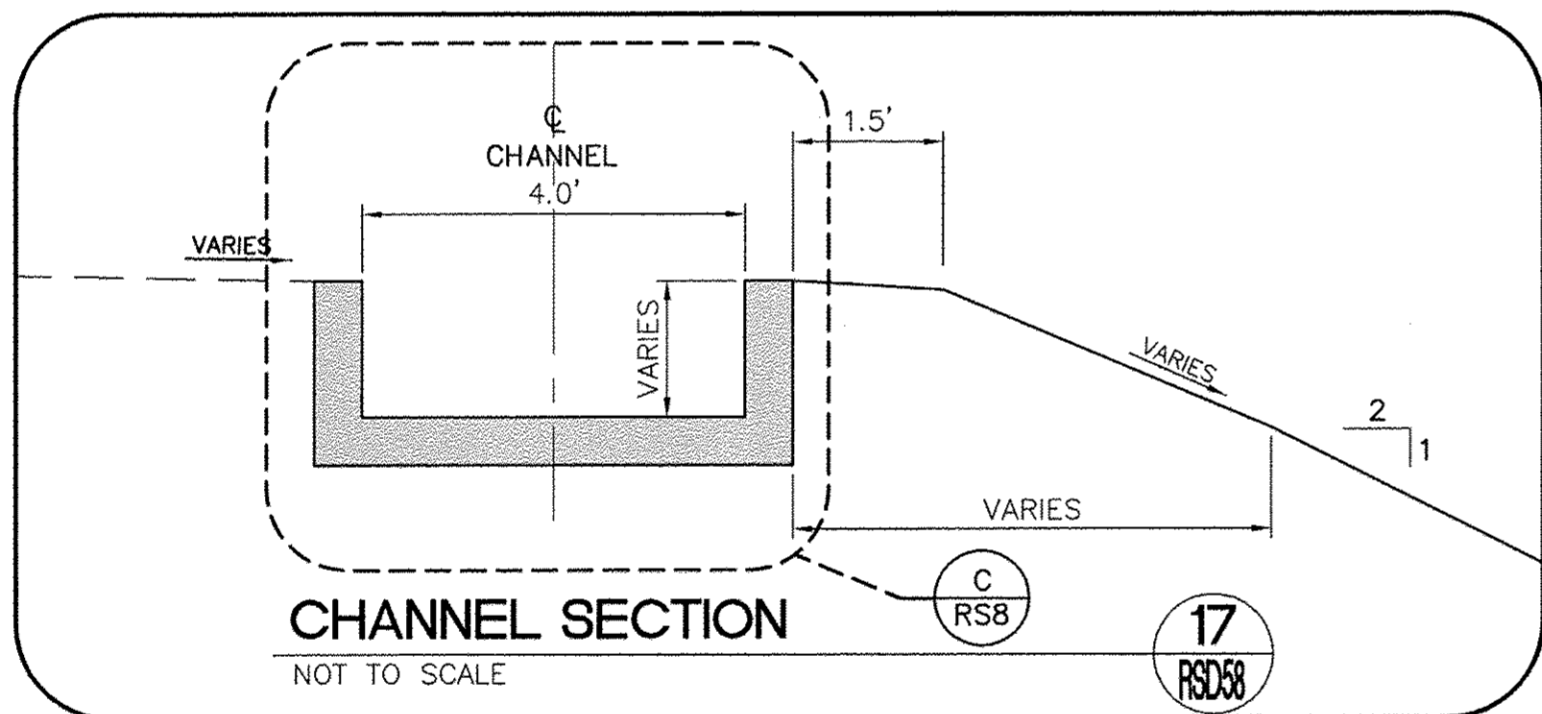
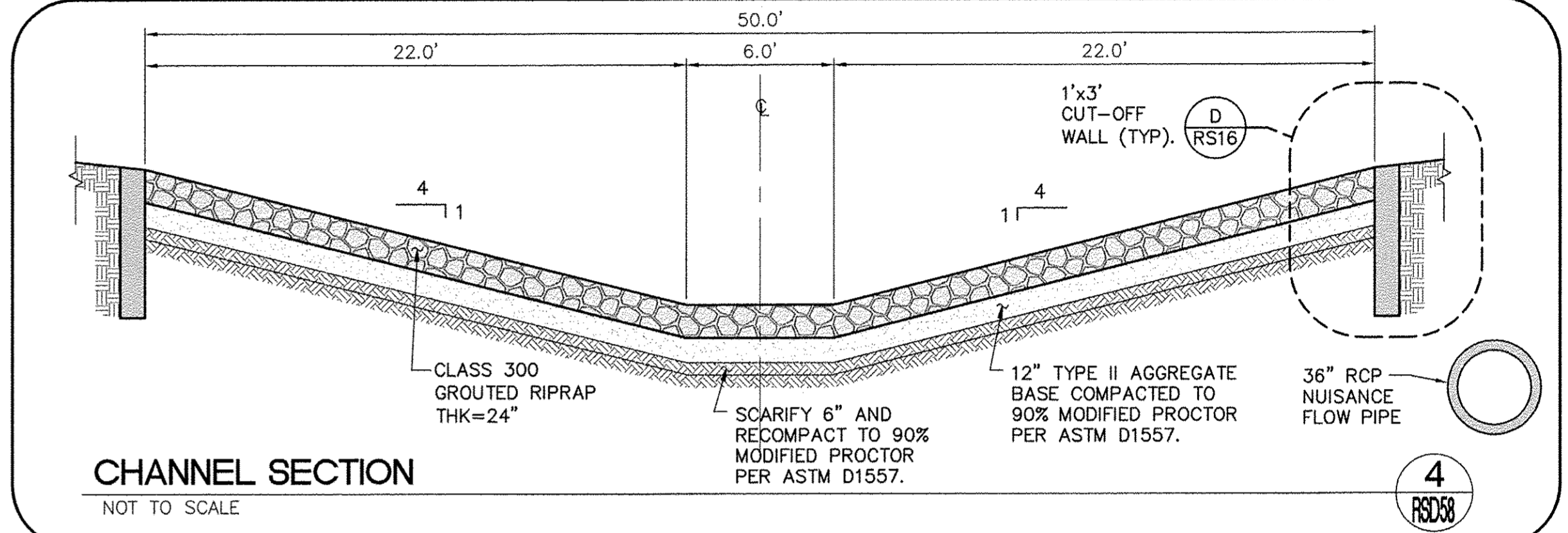
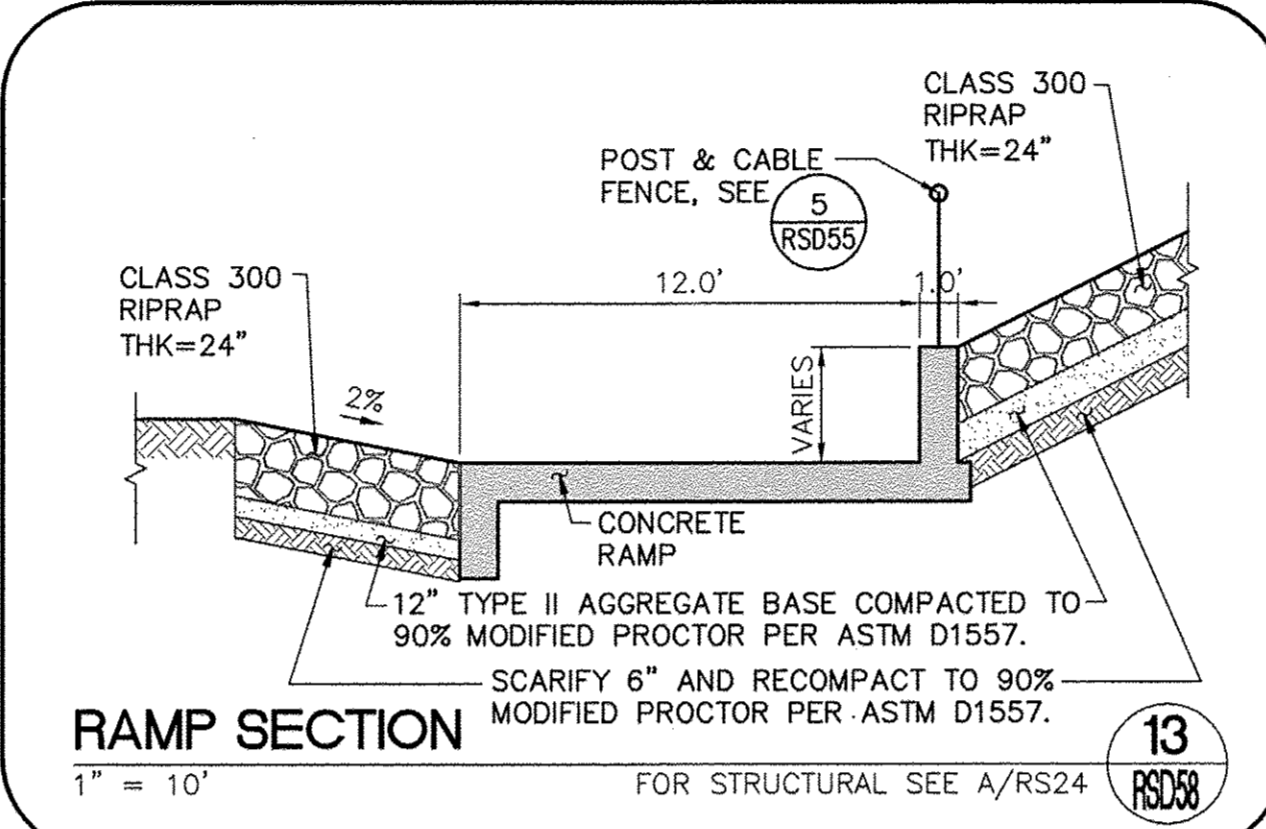
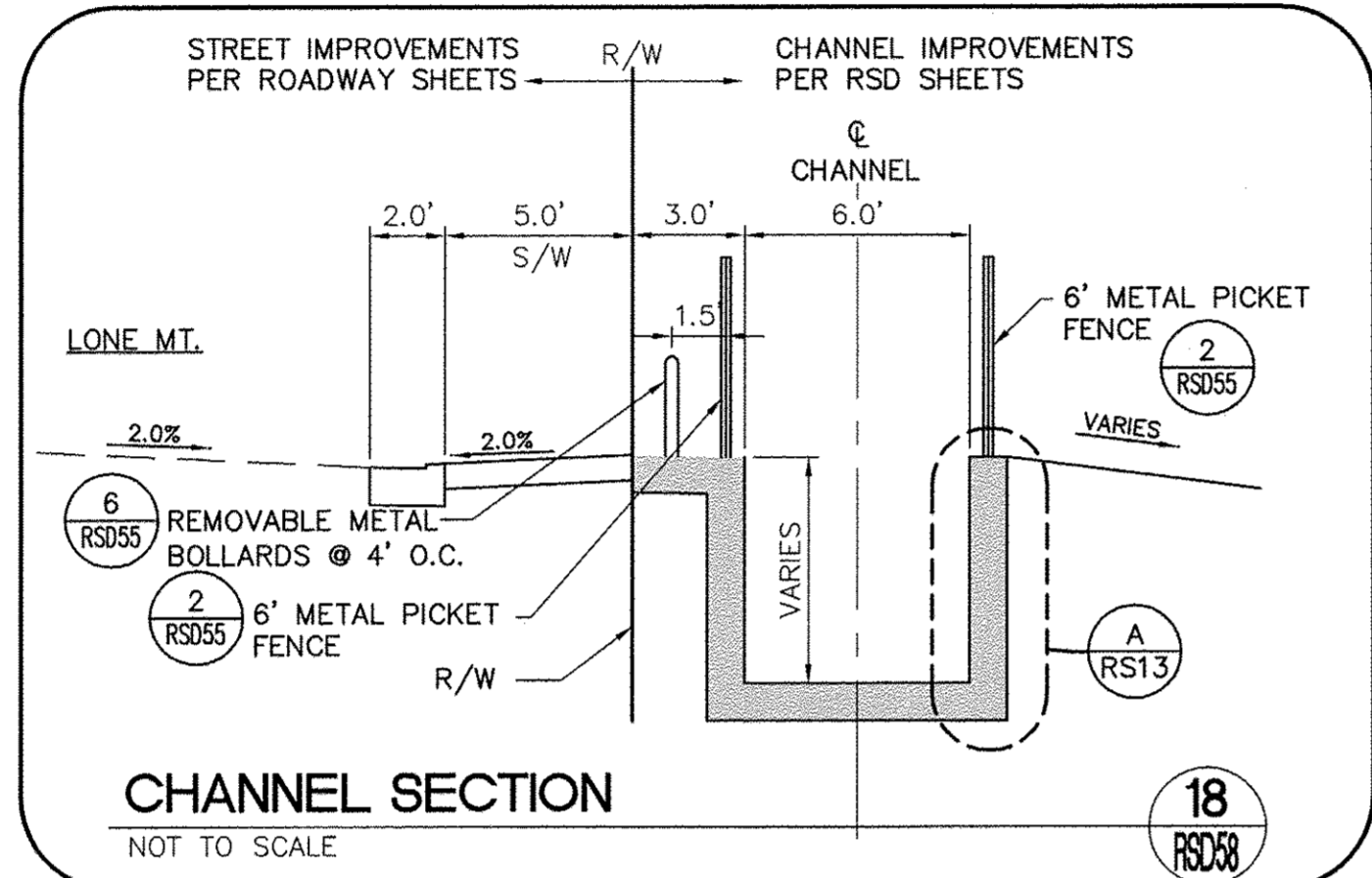
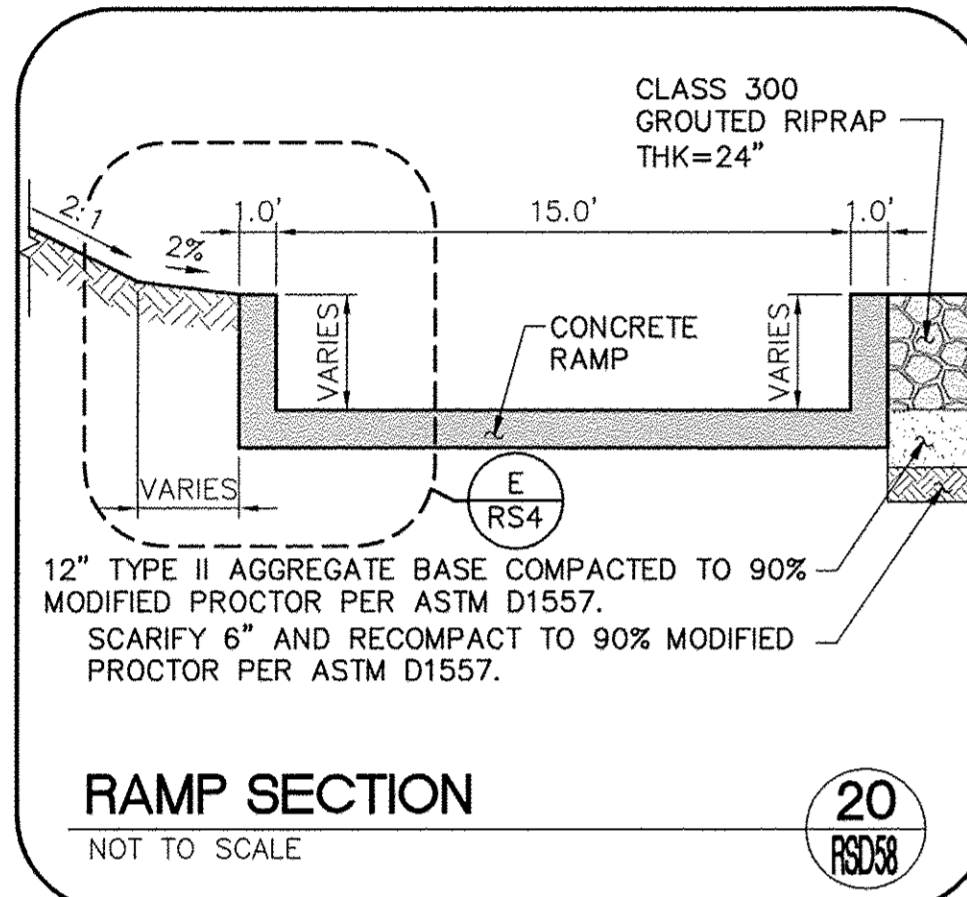
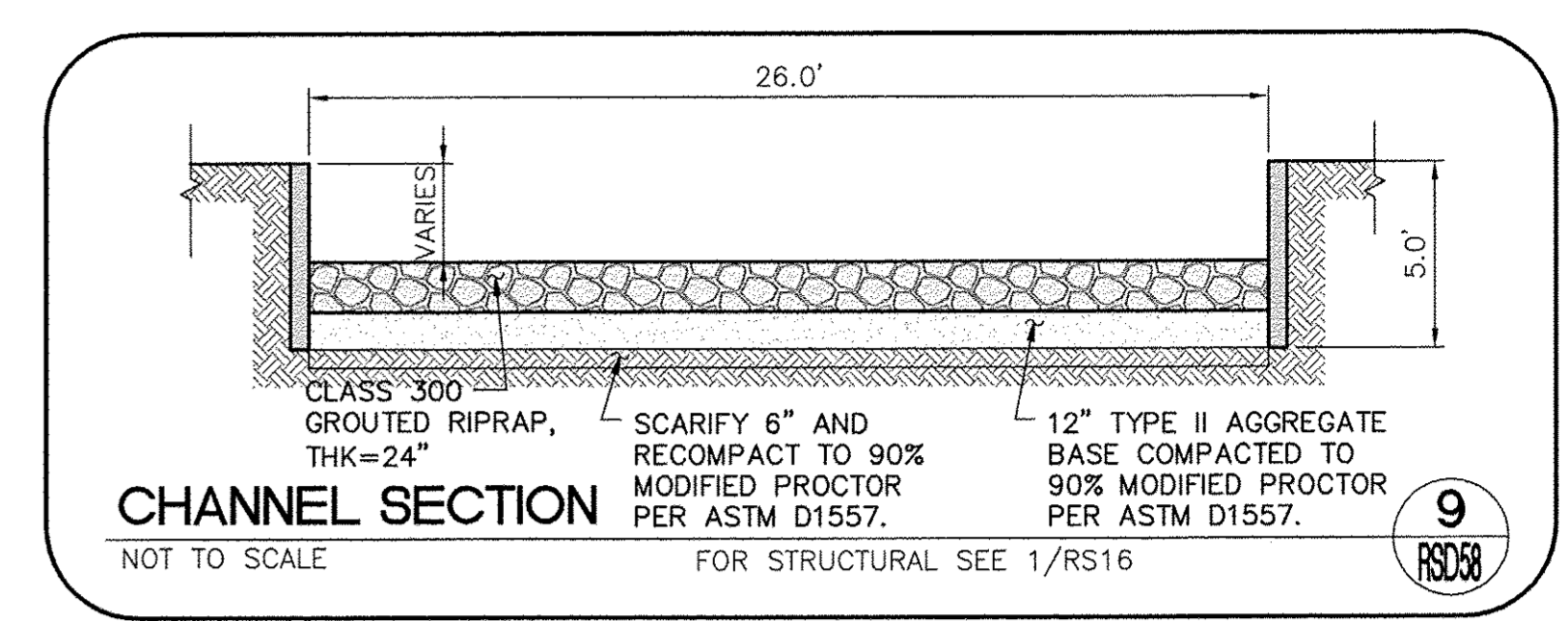
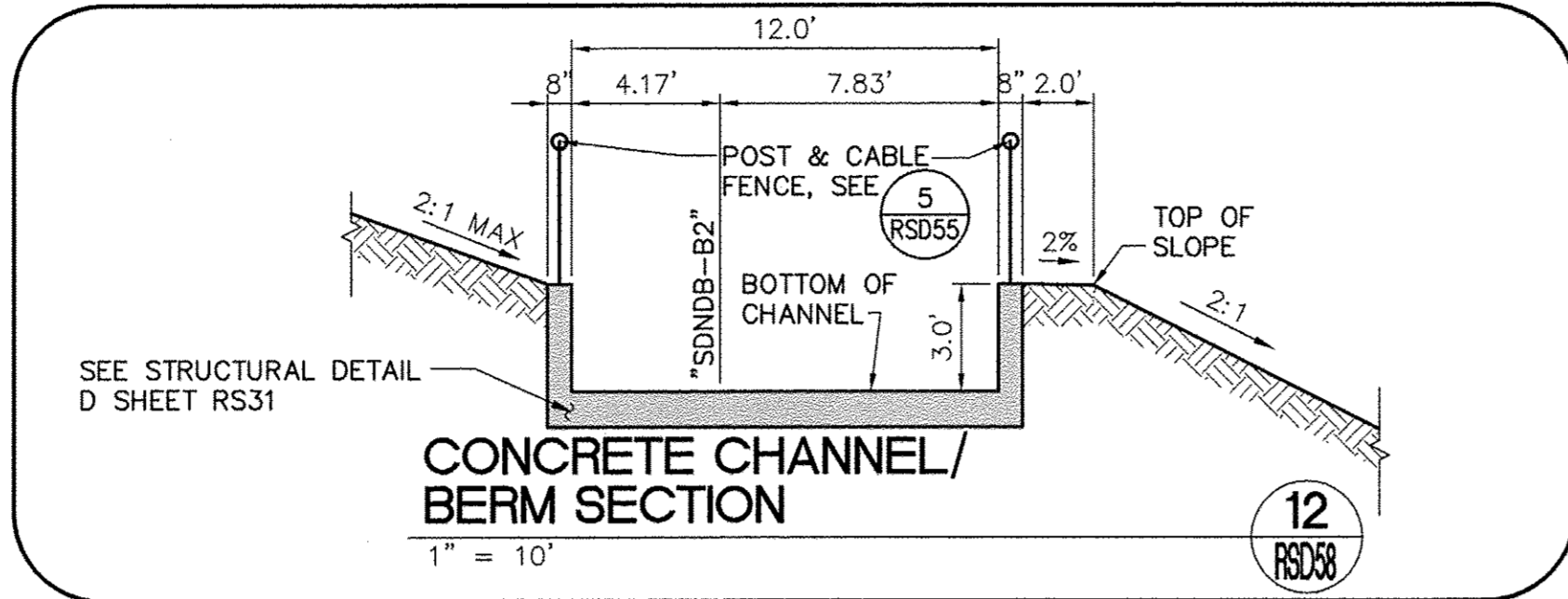
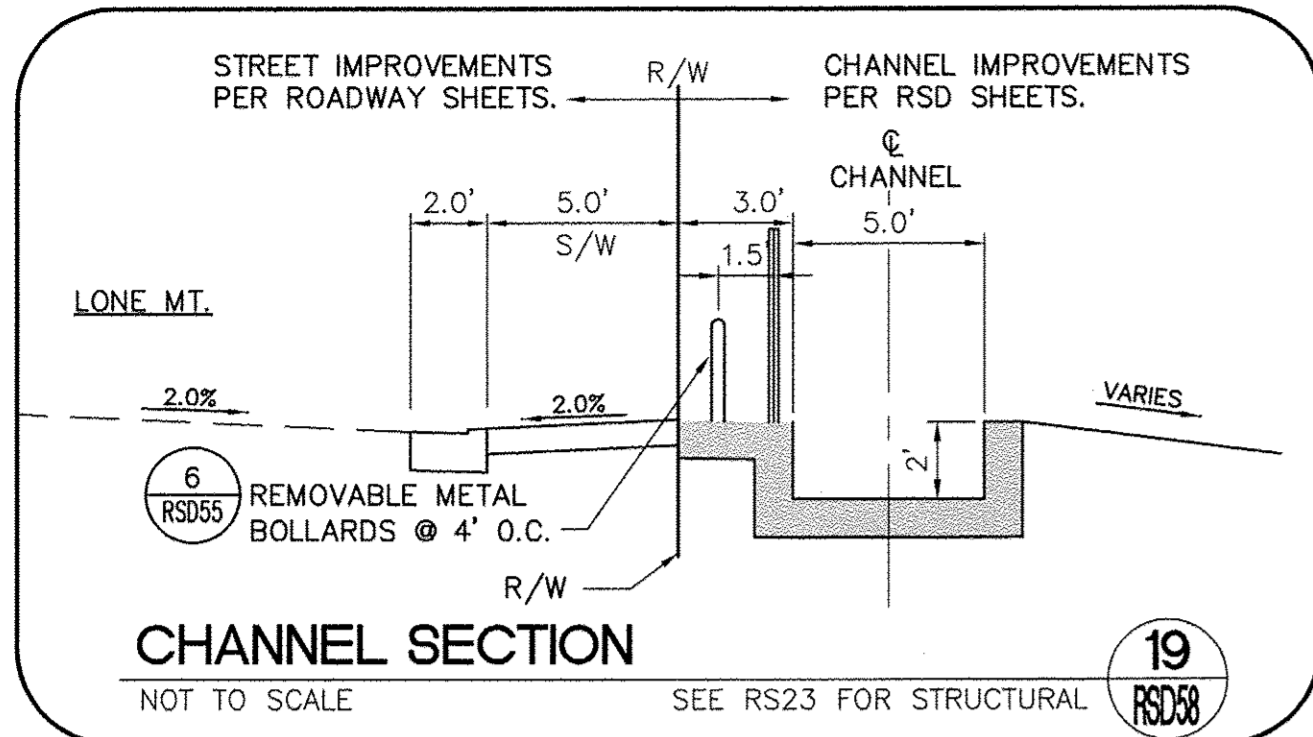
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
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**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD57
VERT:	AS SHOWN	
FIELD BOOK		SHT. 561 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

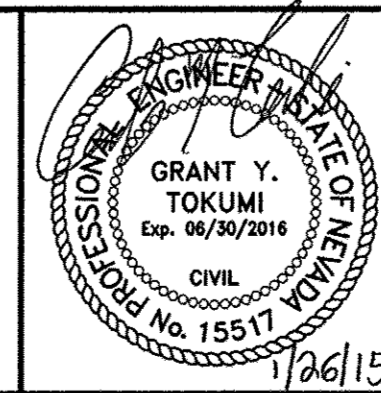


REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

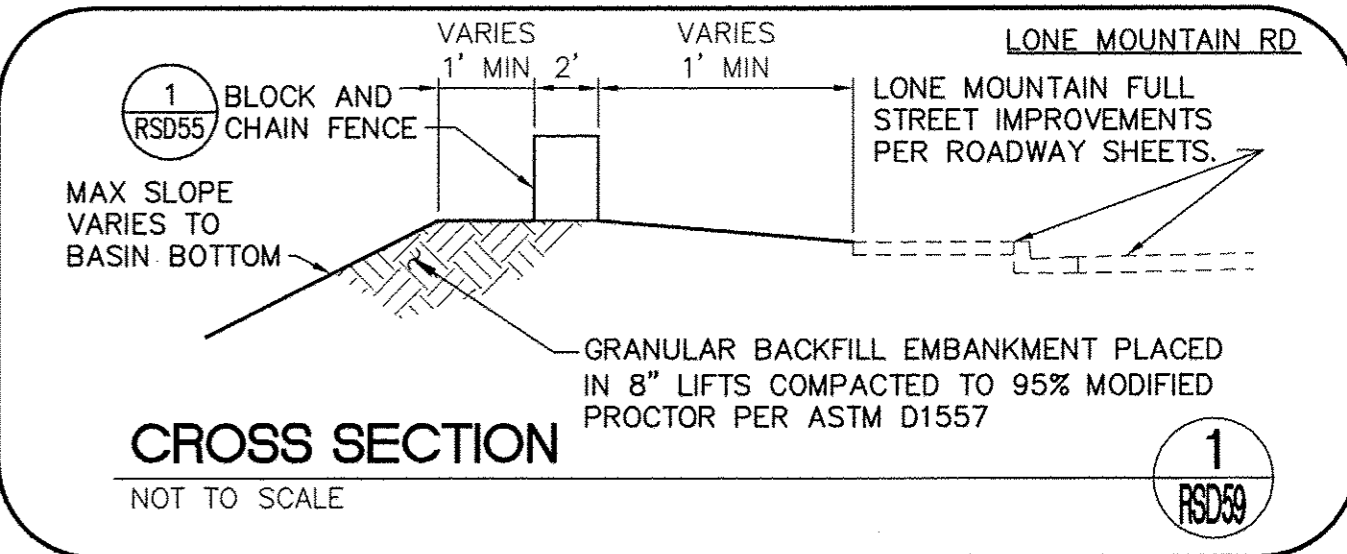
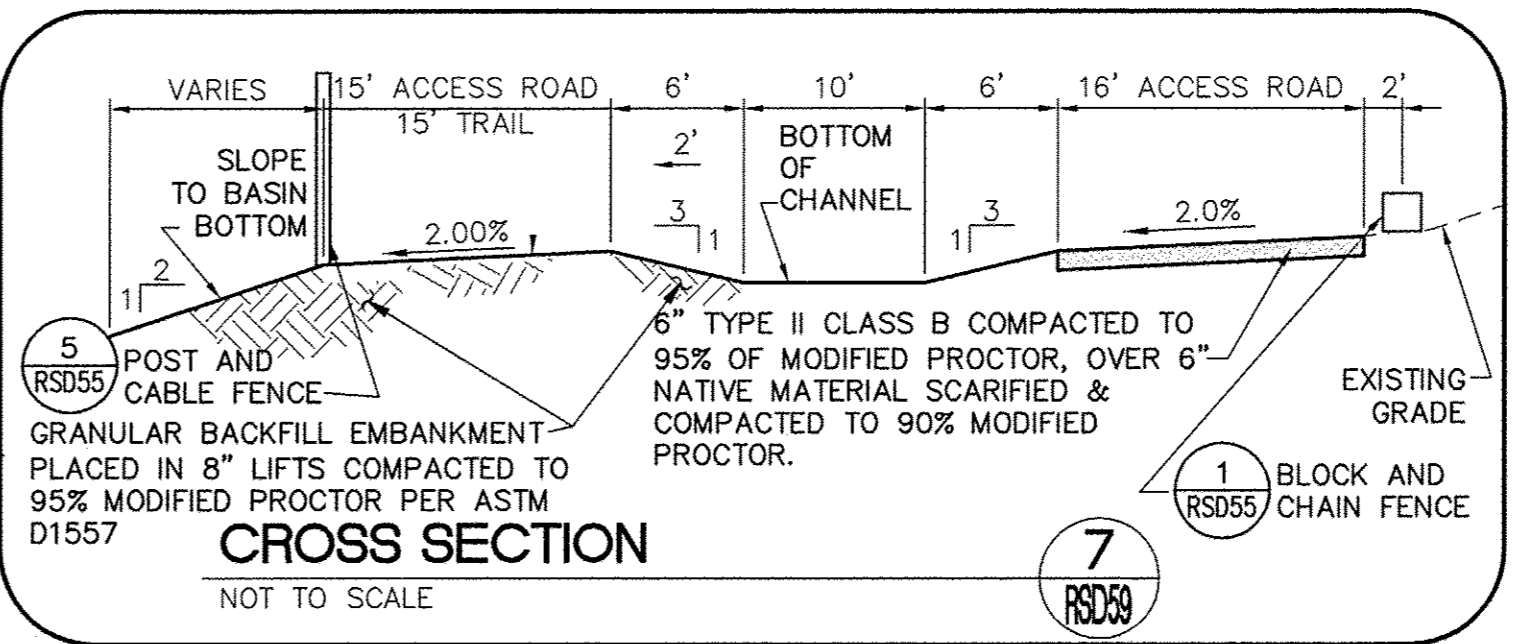
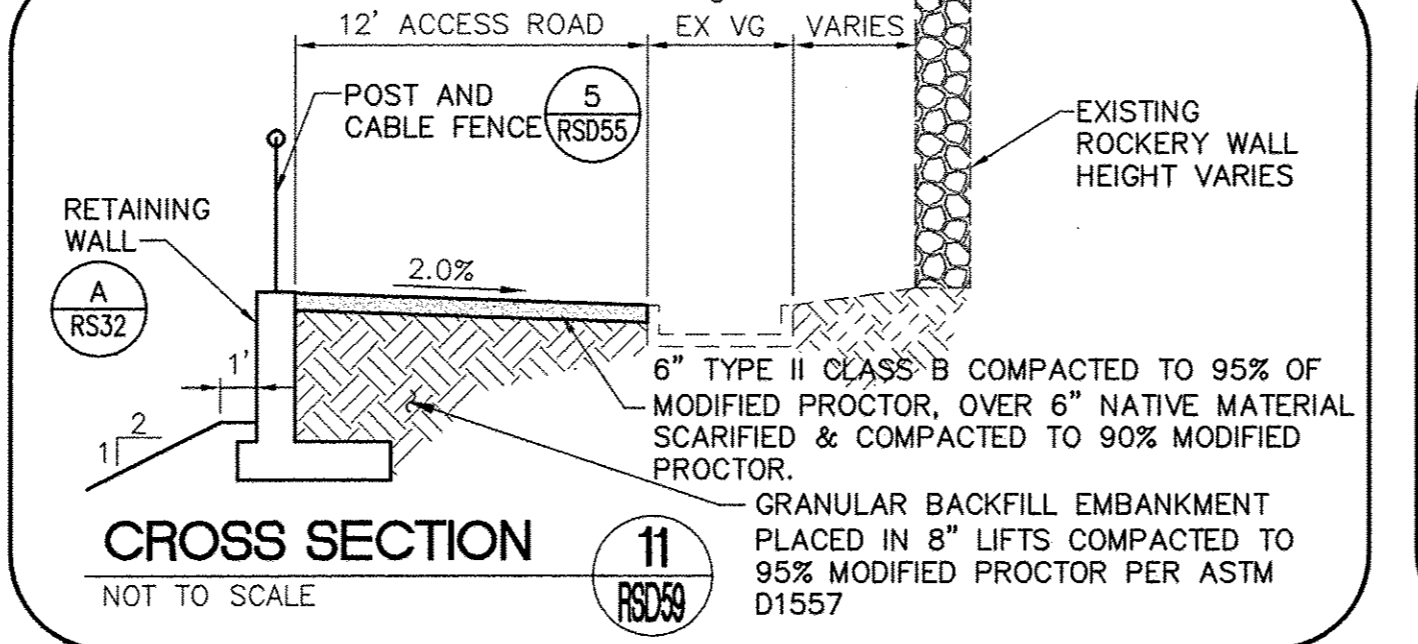
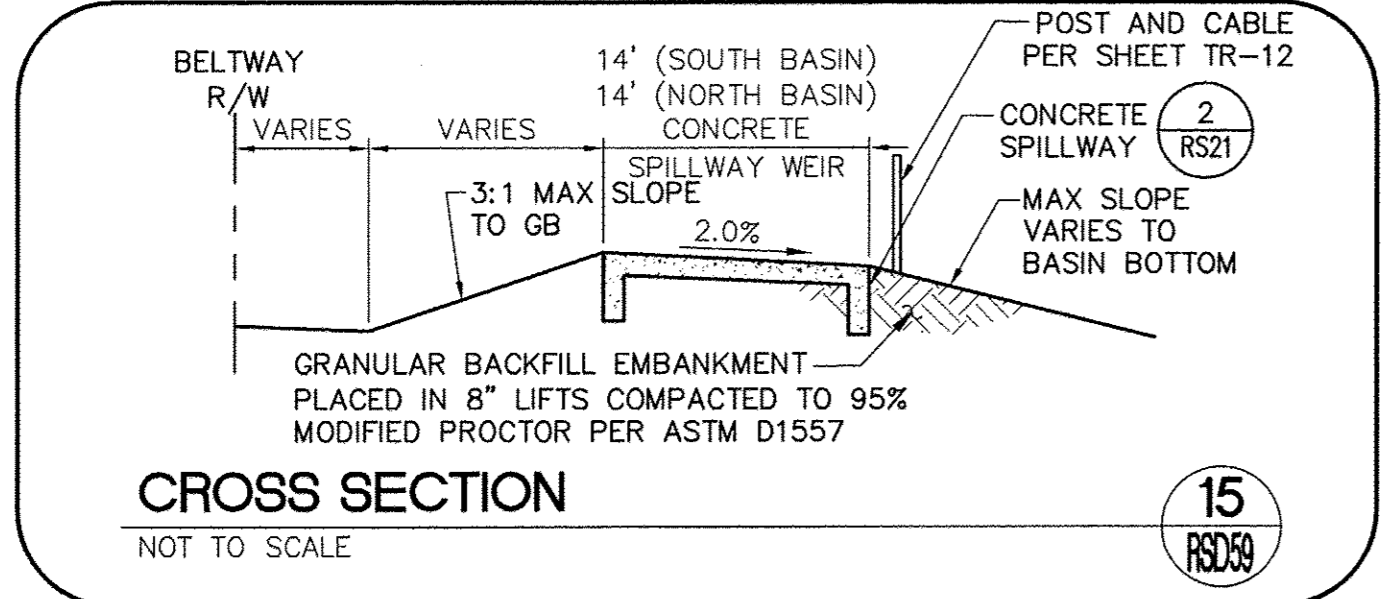
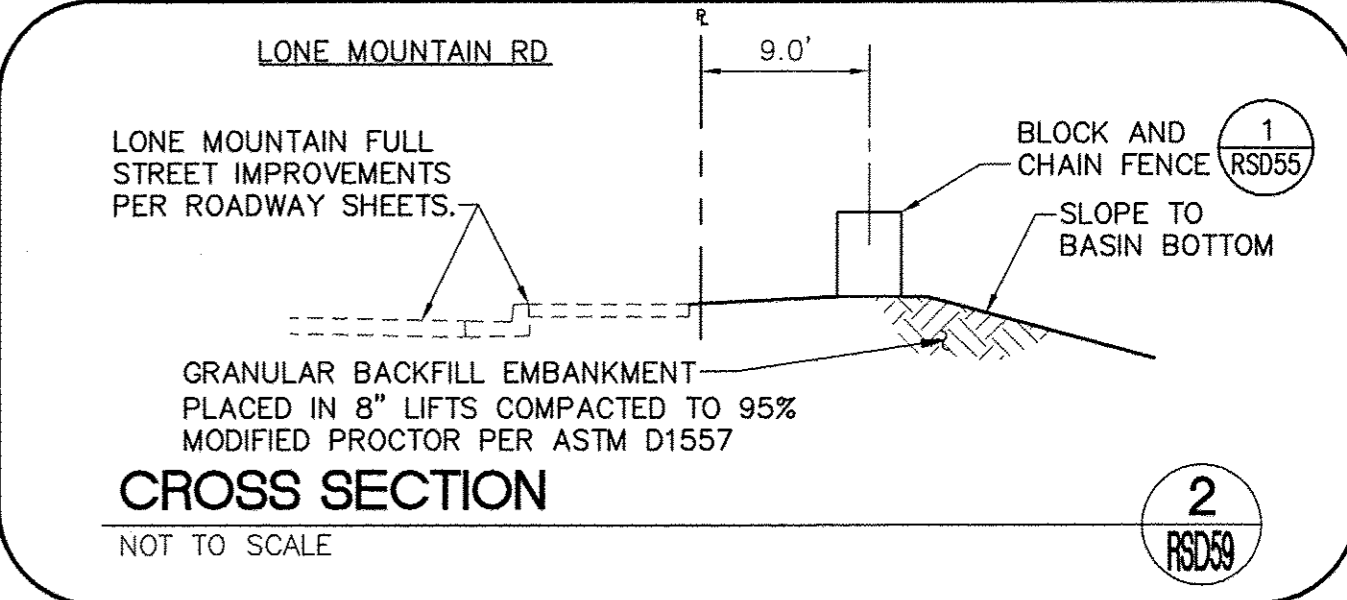
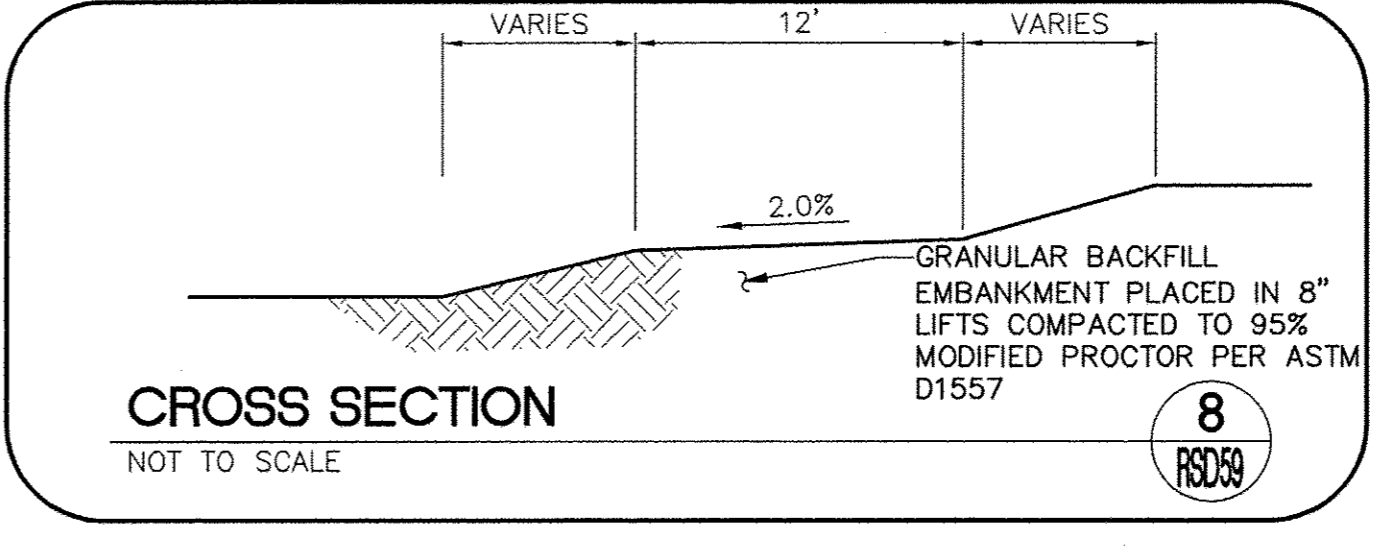
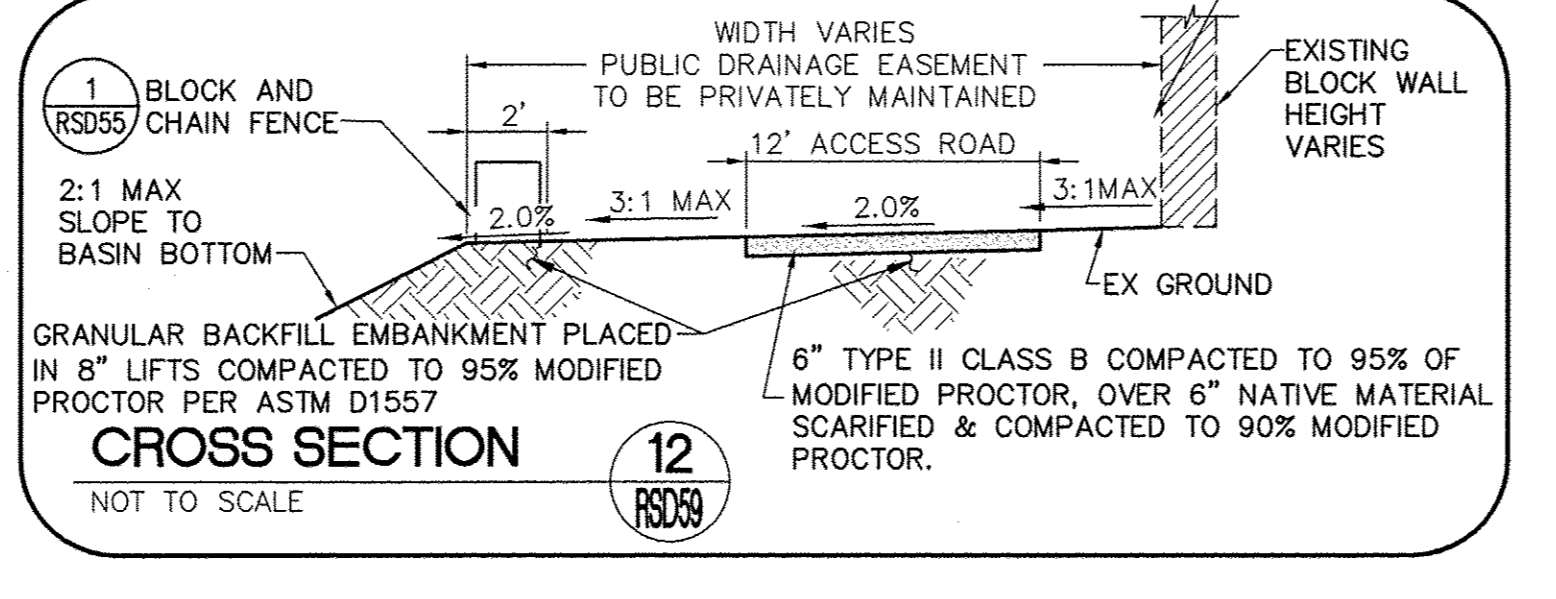
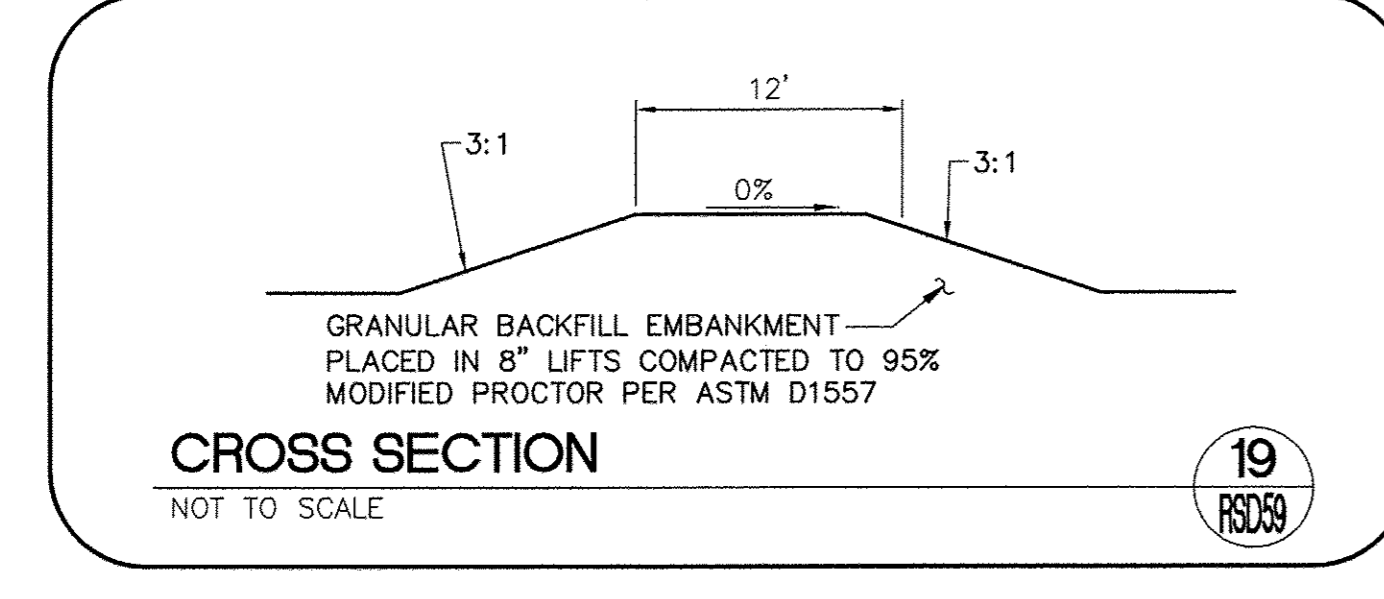
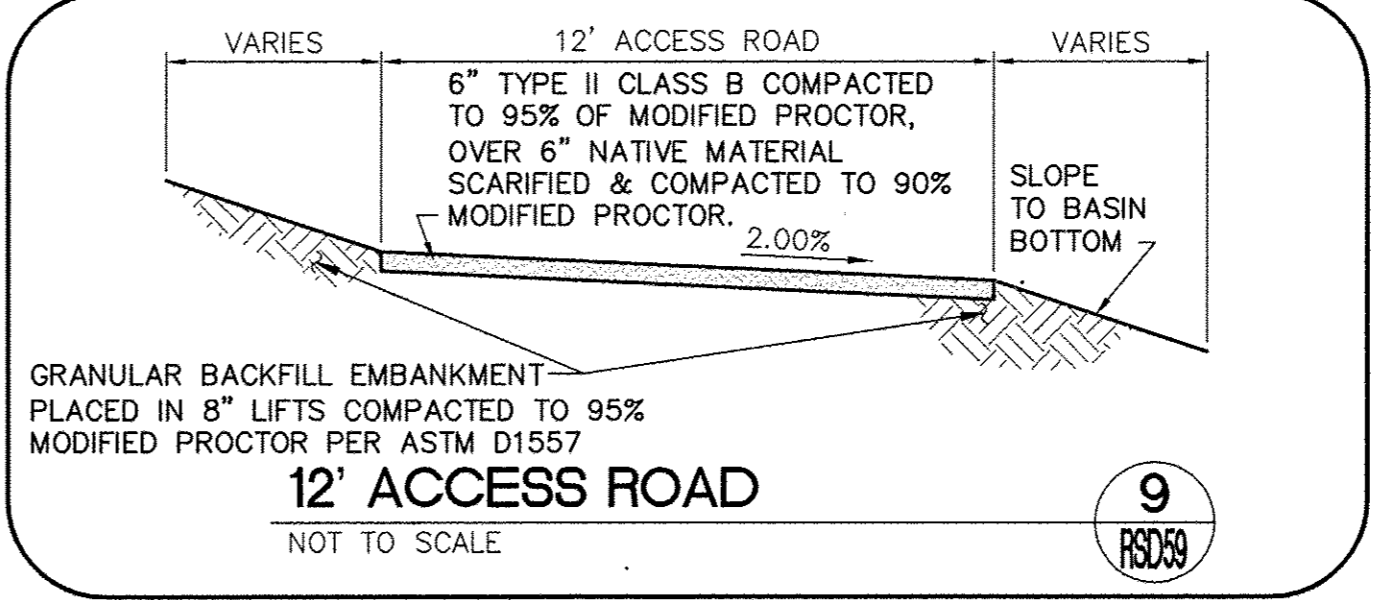
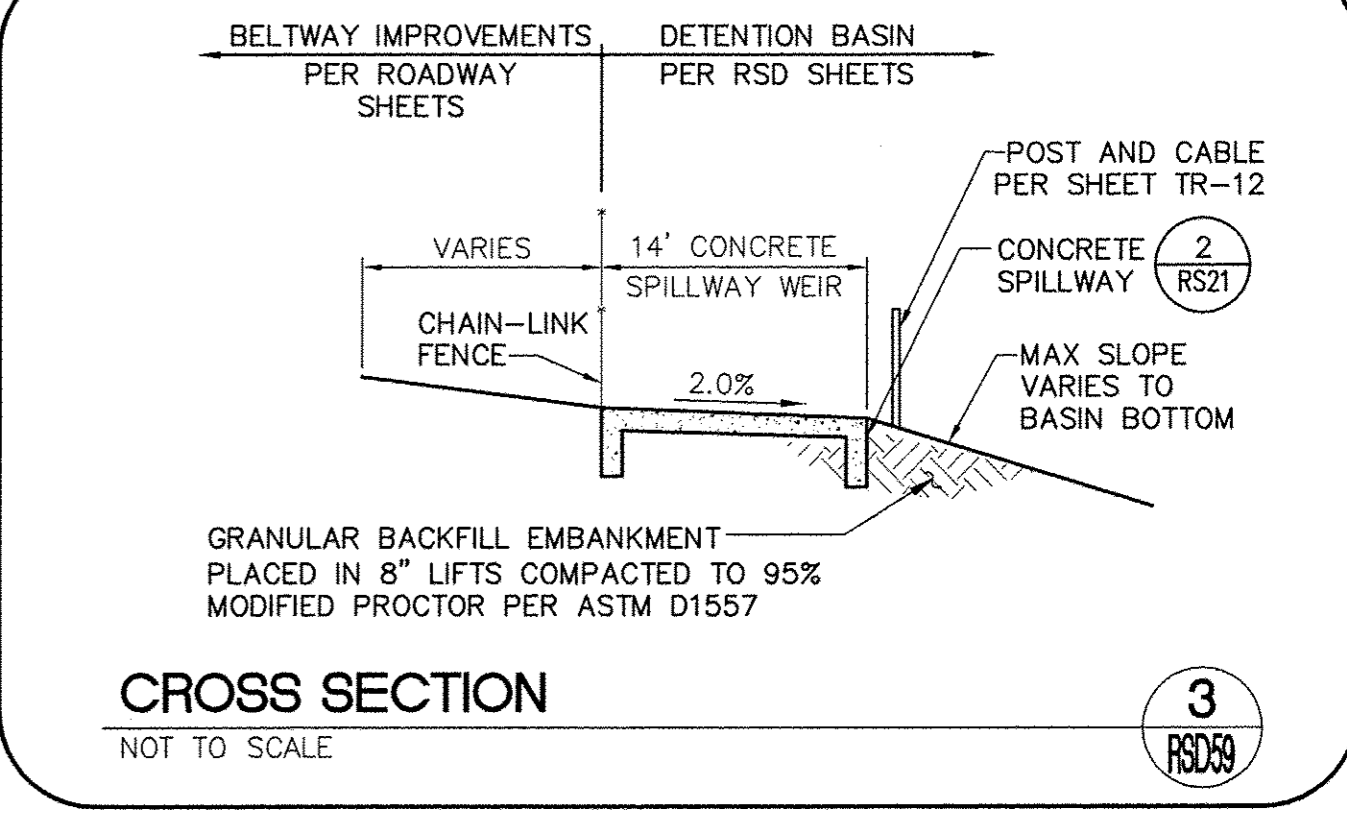
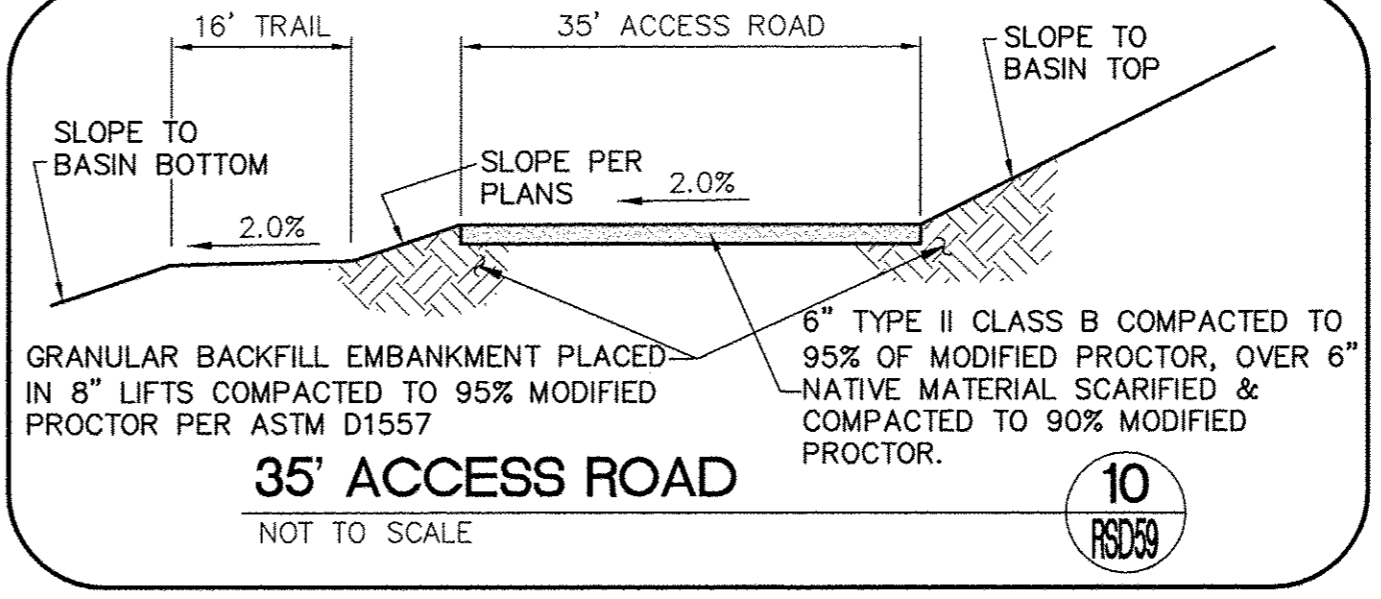
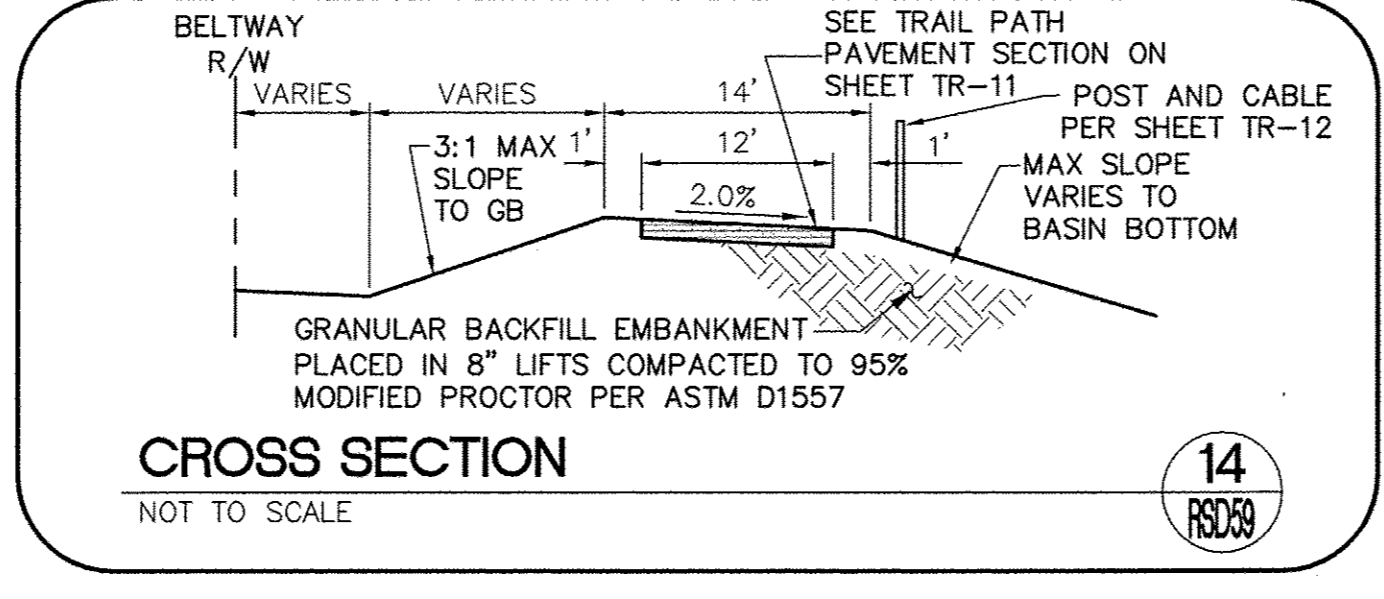
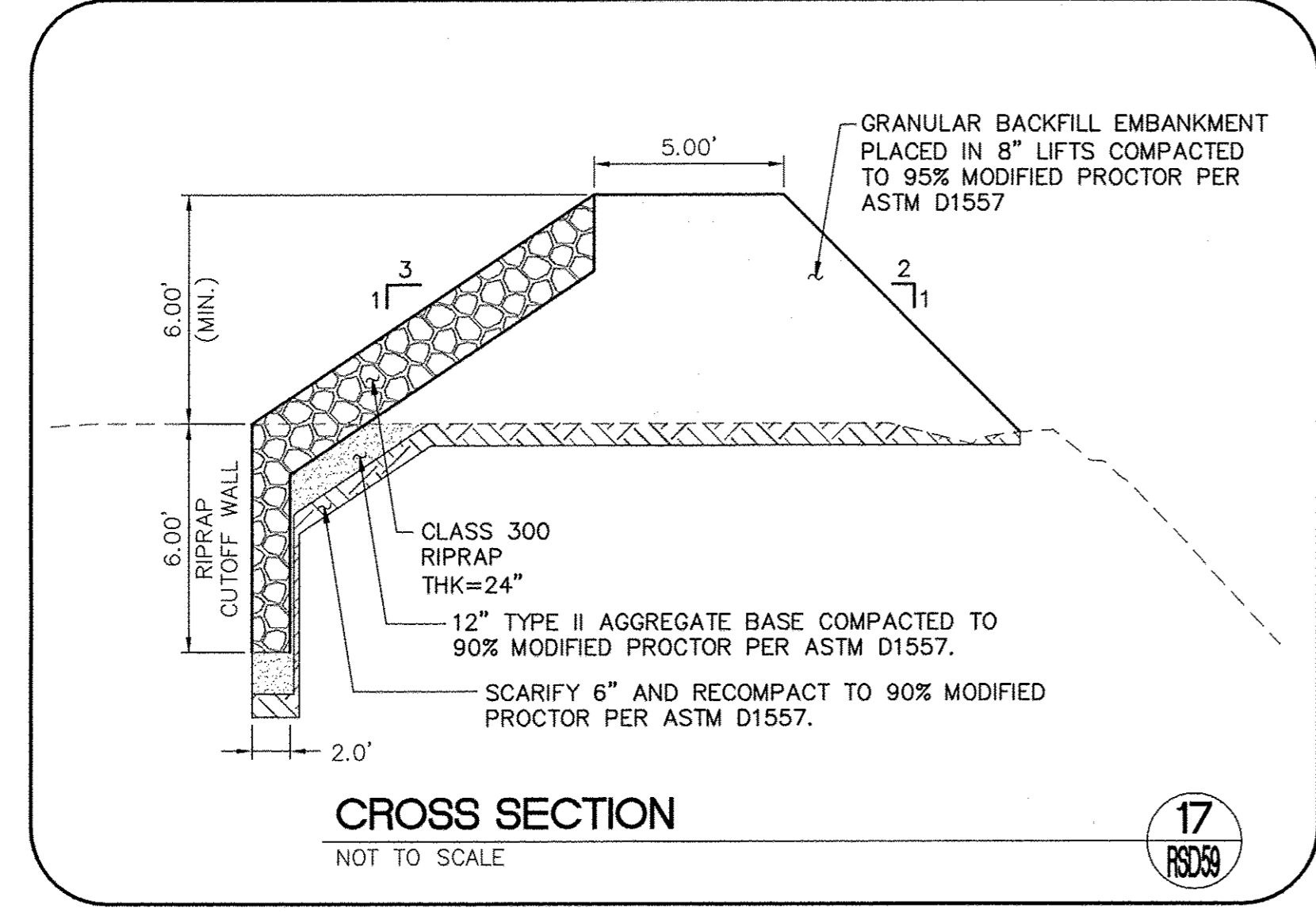
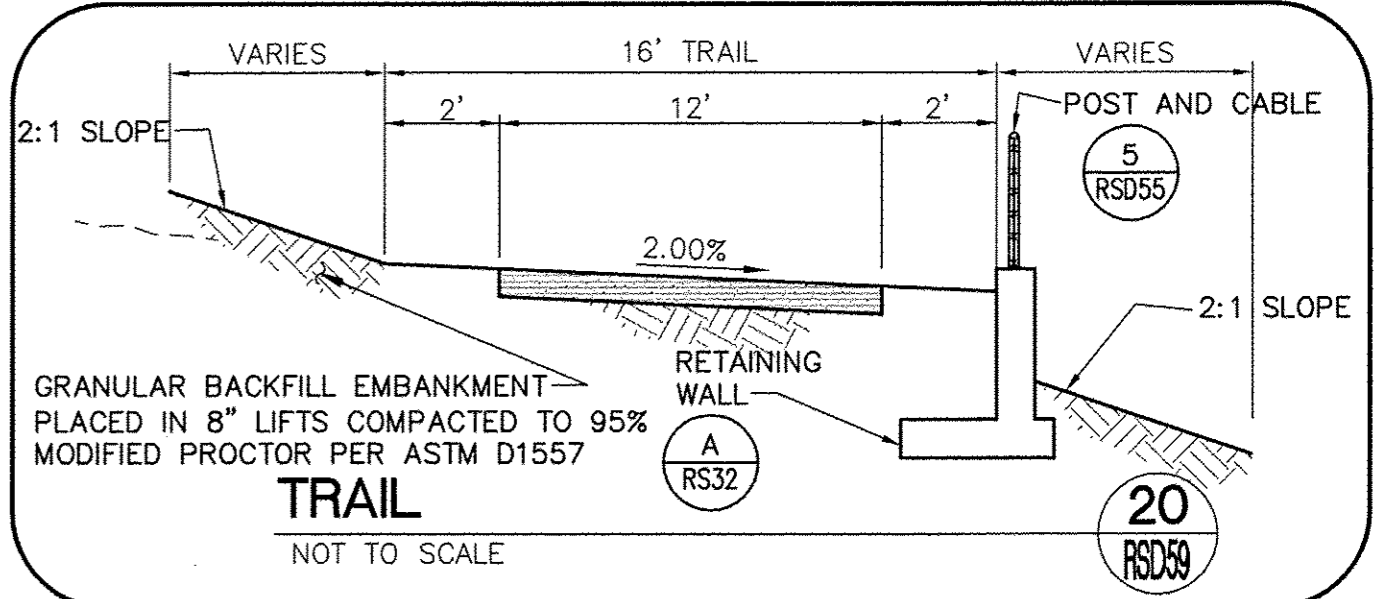
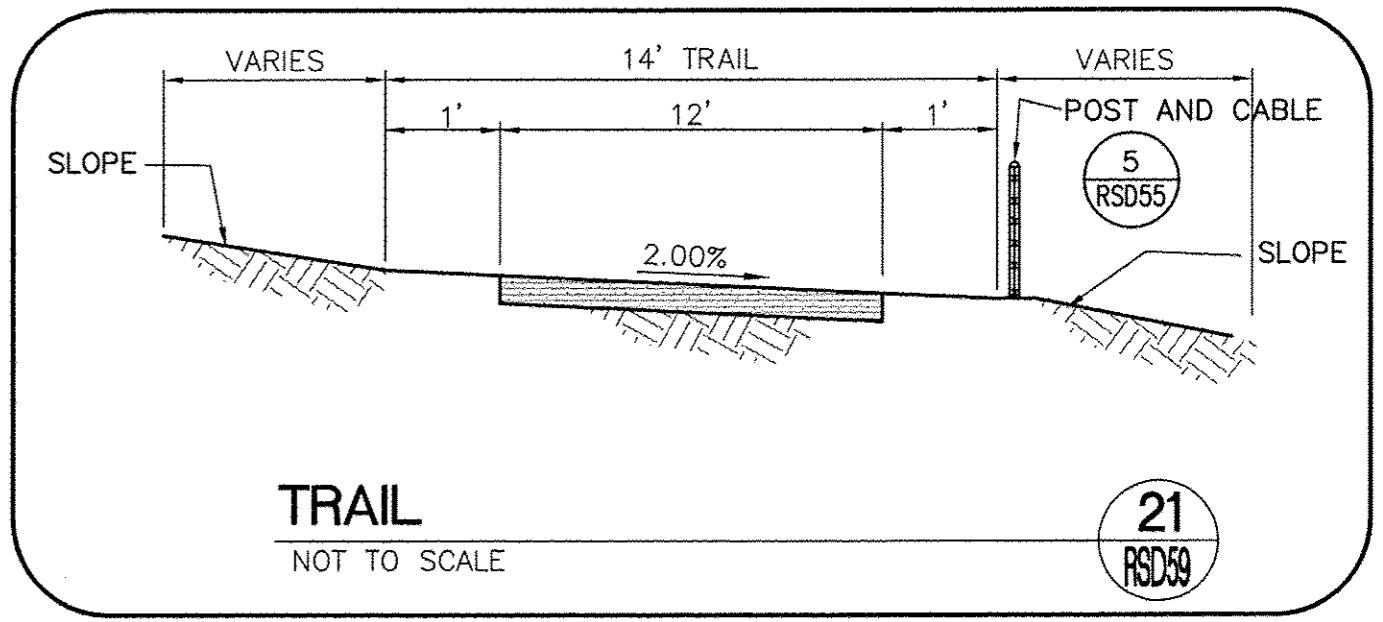
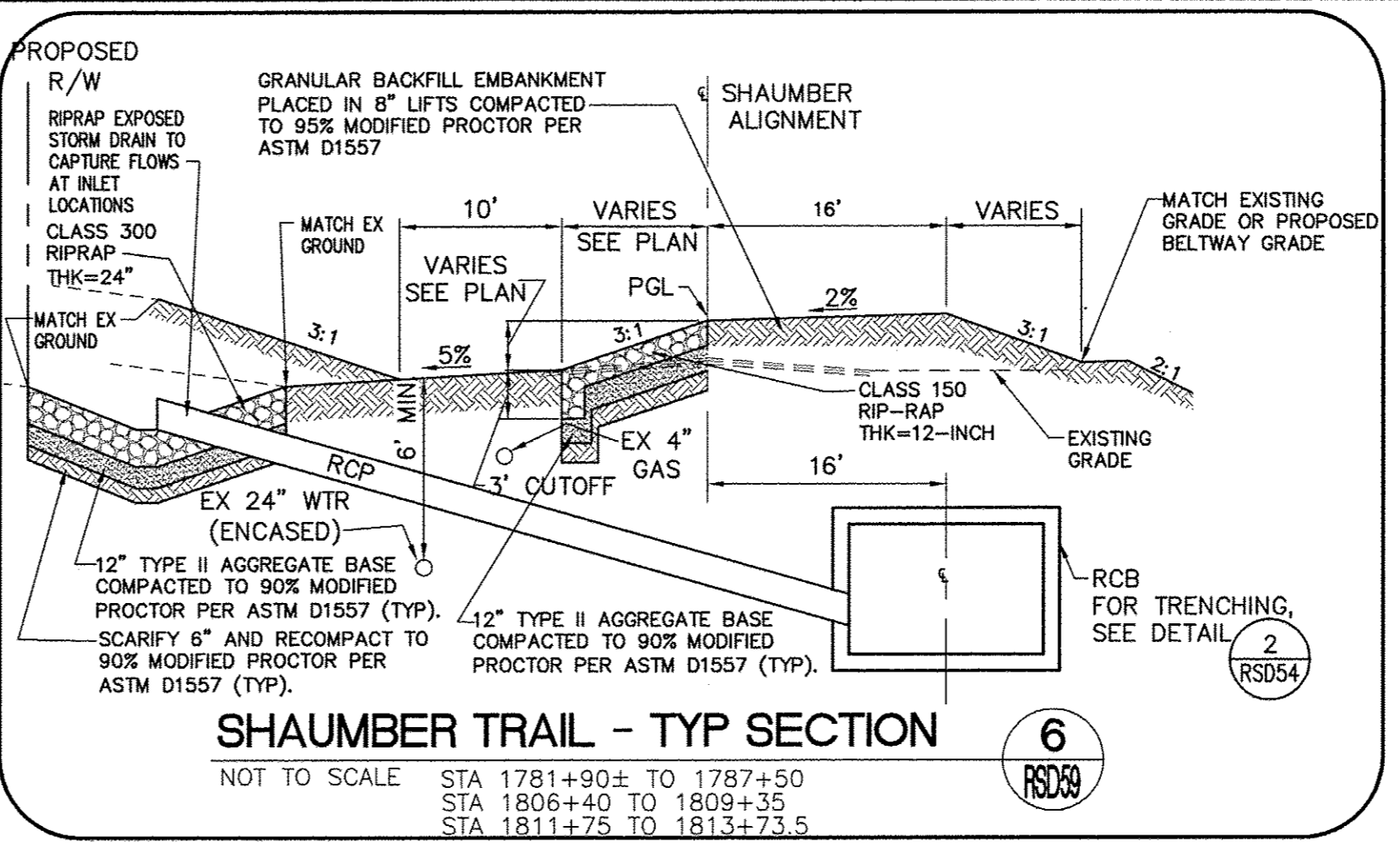
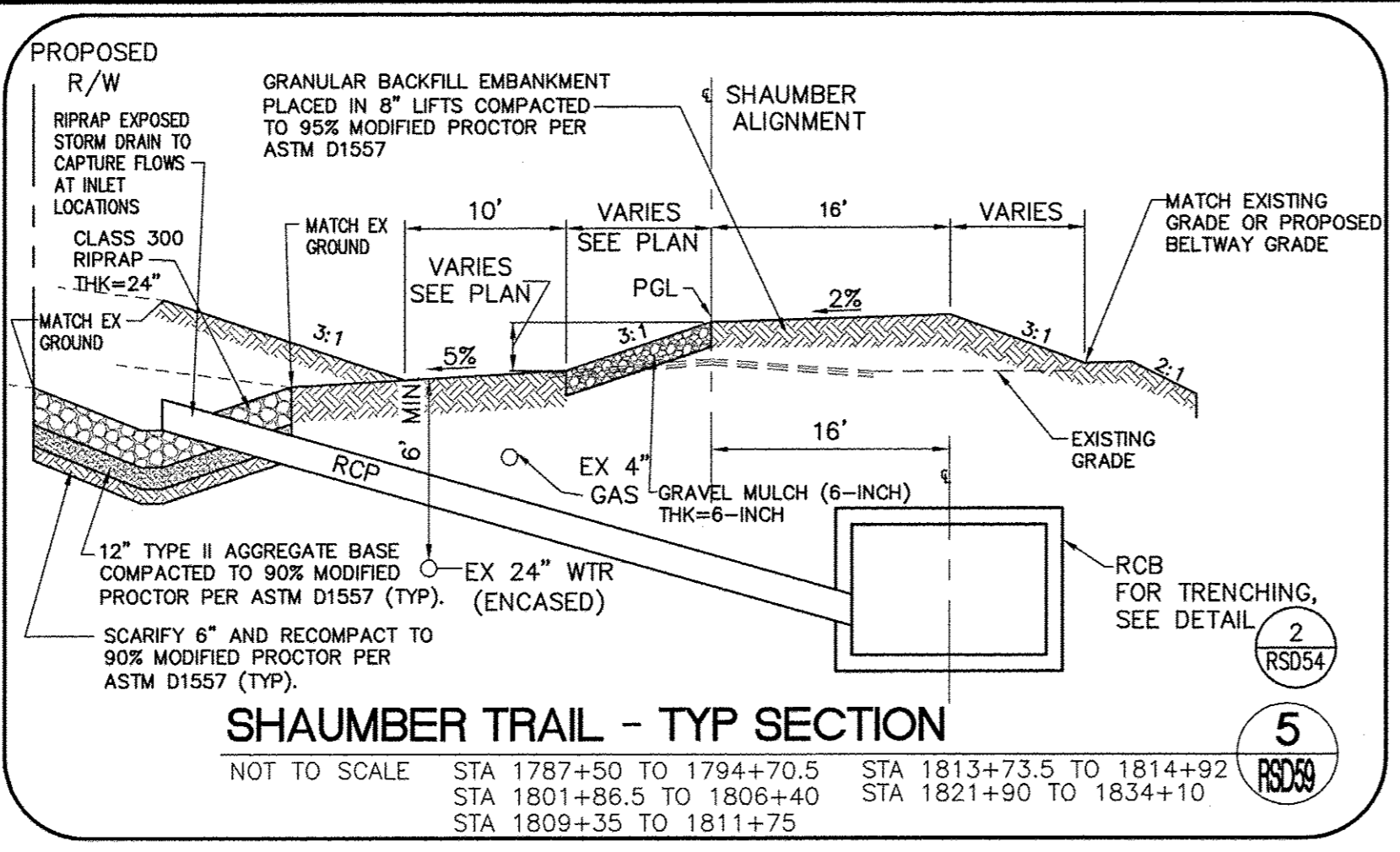
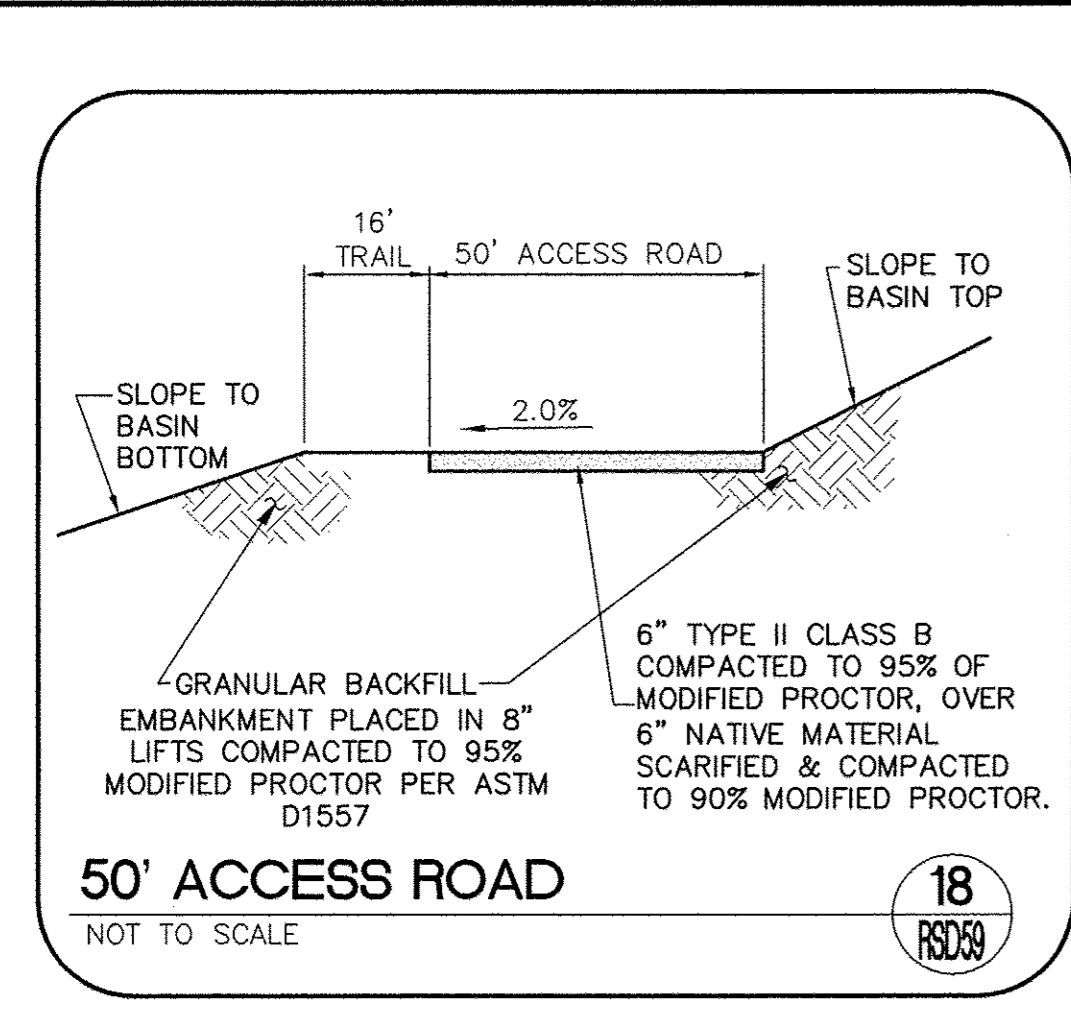


PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		SHT. 562 OF 600
COPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15



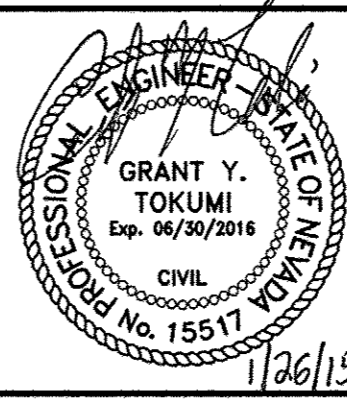


REV. NO.	DATE	DESCRIPTION	APPROVED



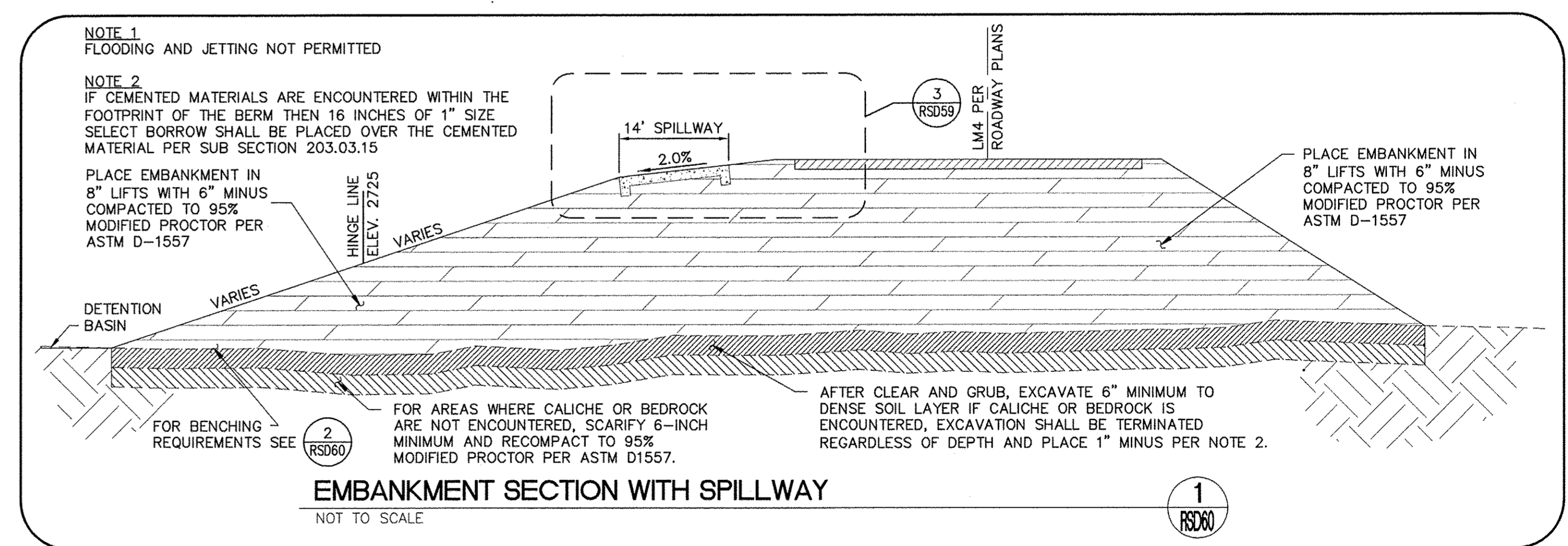
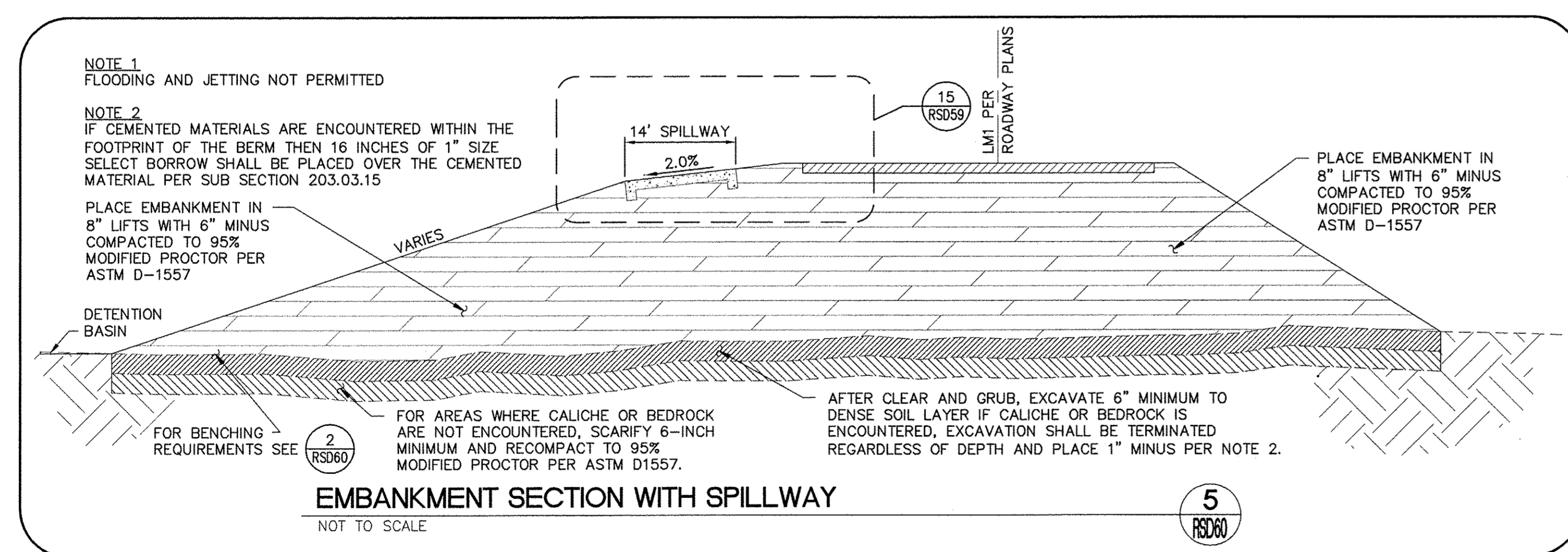
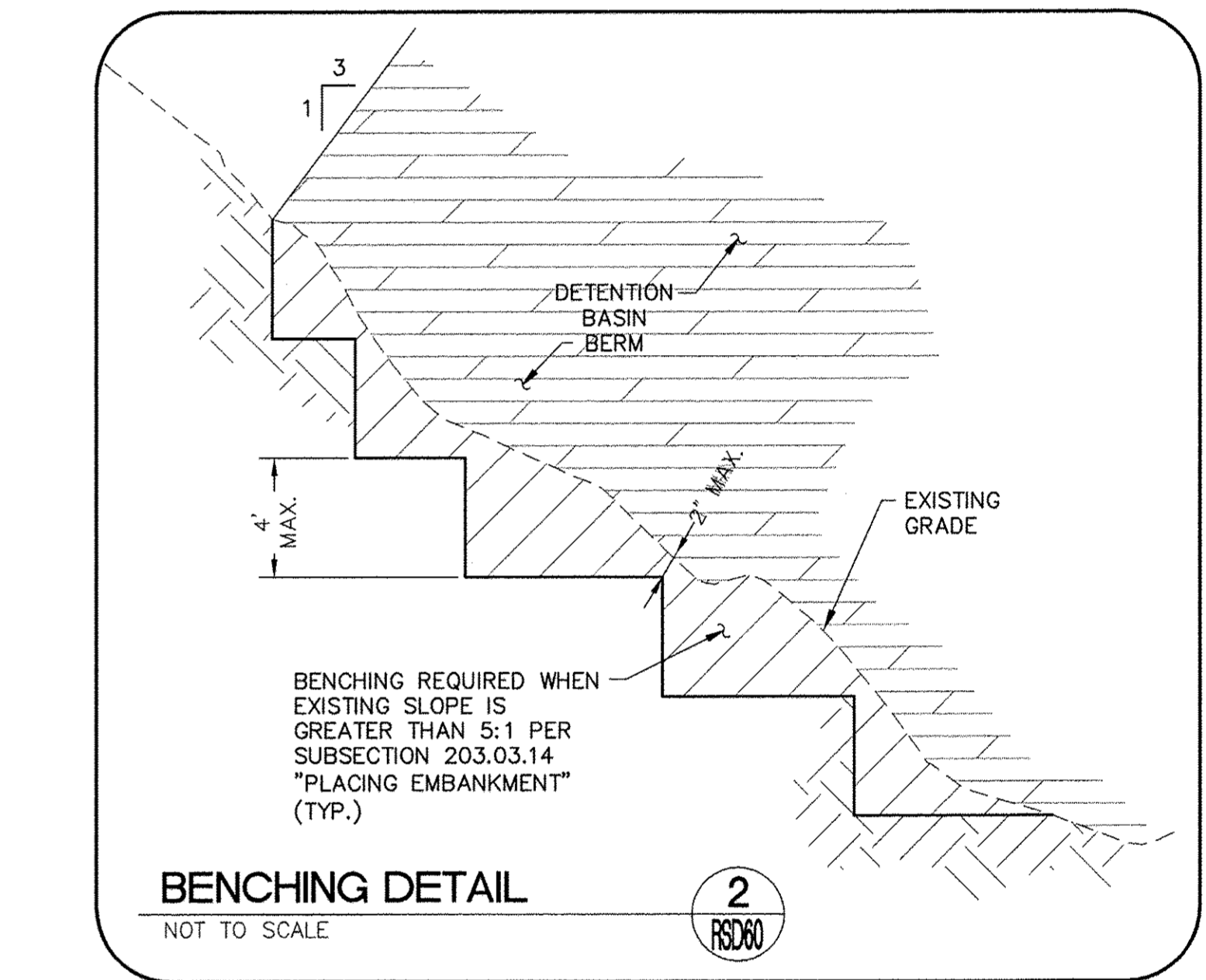
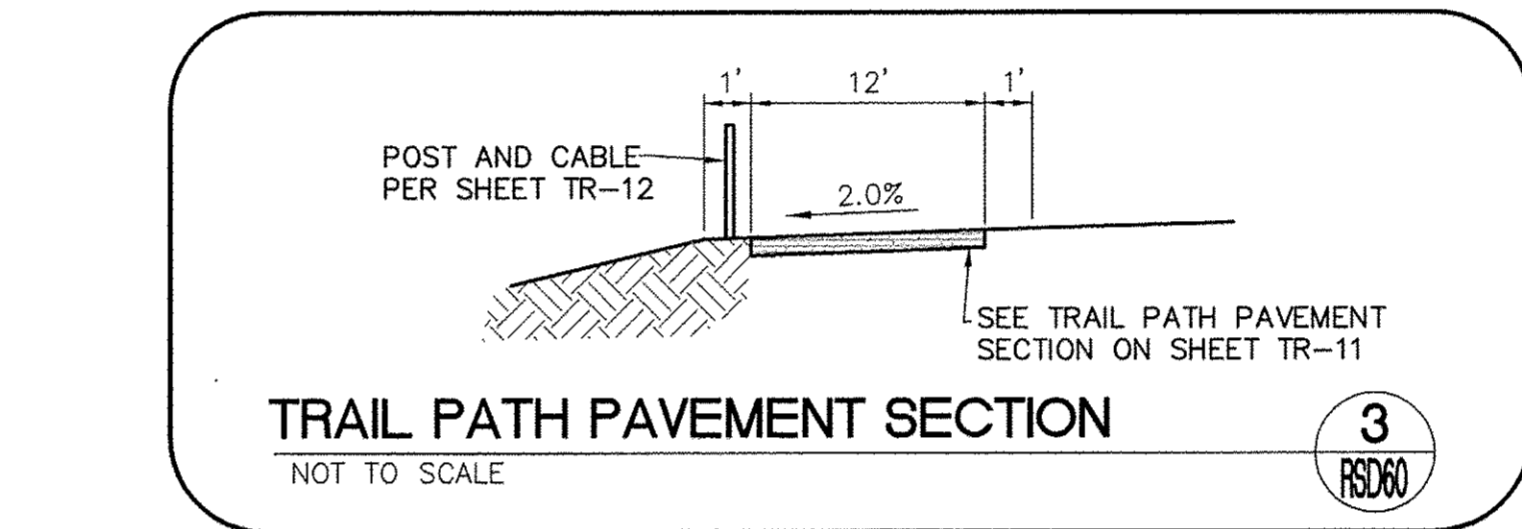
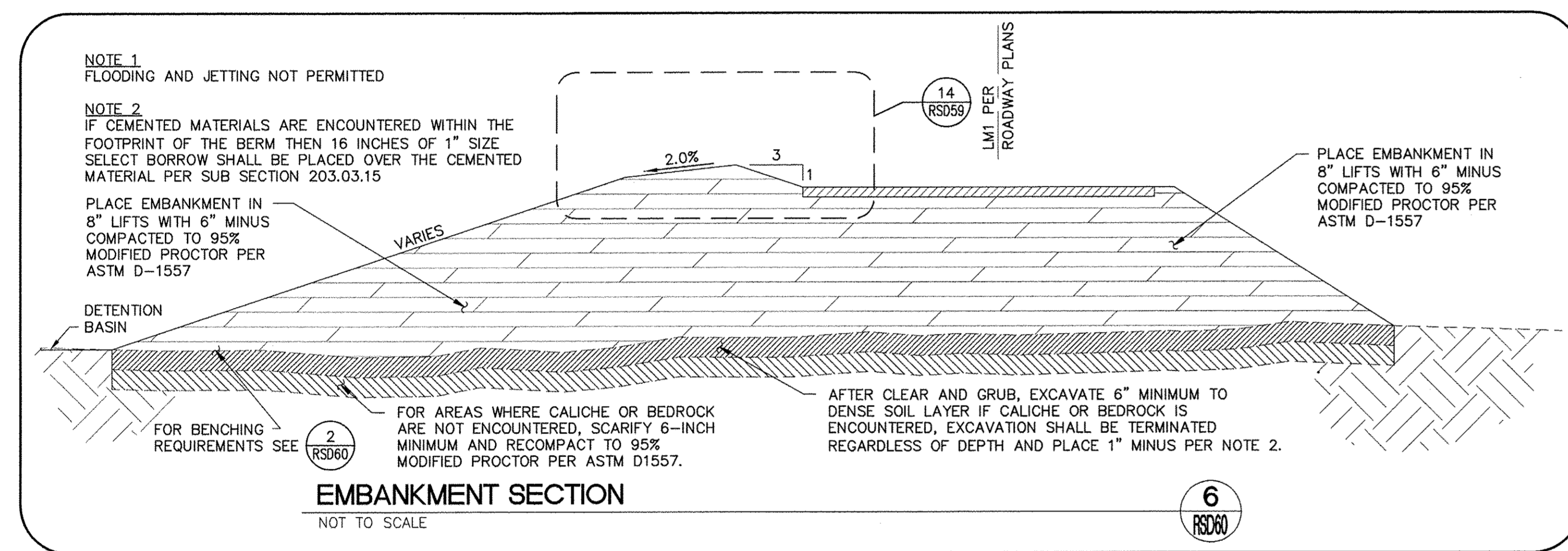
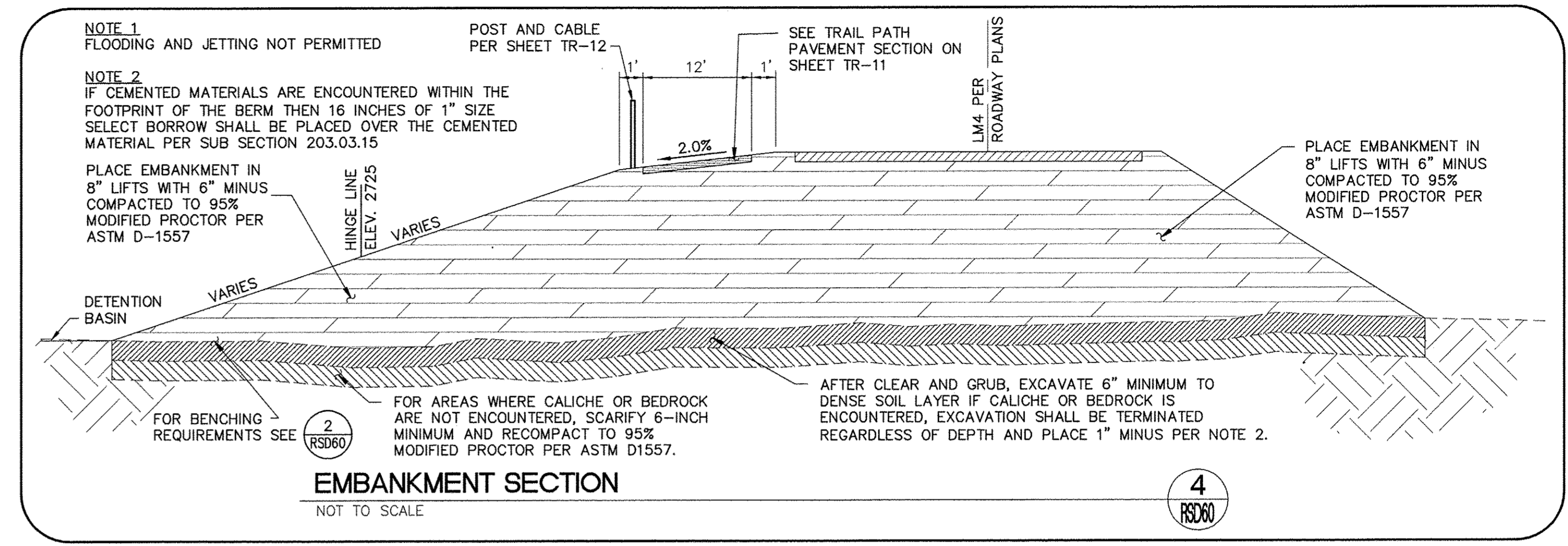
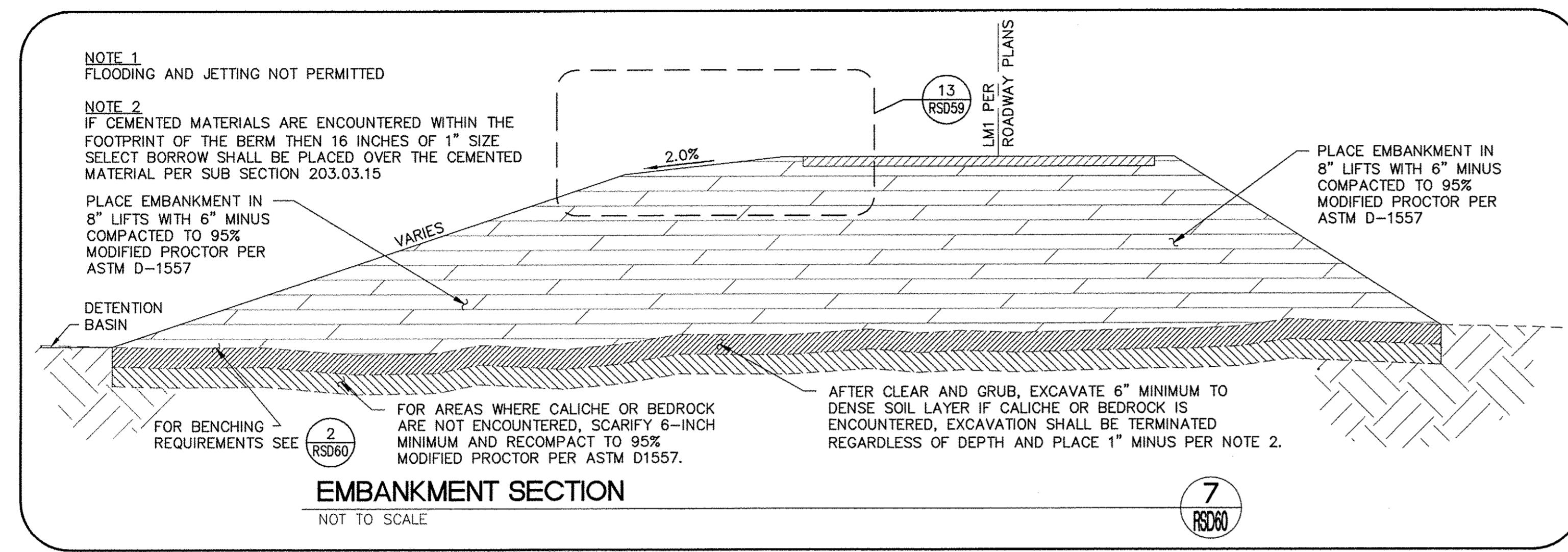
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
DETAILS

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		
CPWP PROJECT #		
W.O. #:	2008-62	SHT. 563 OF 600

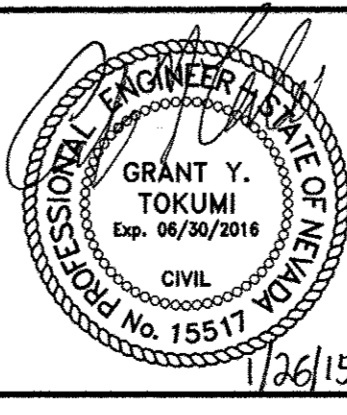


REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
DETAILS

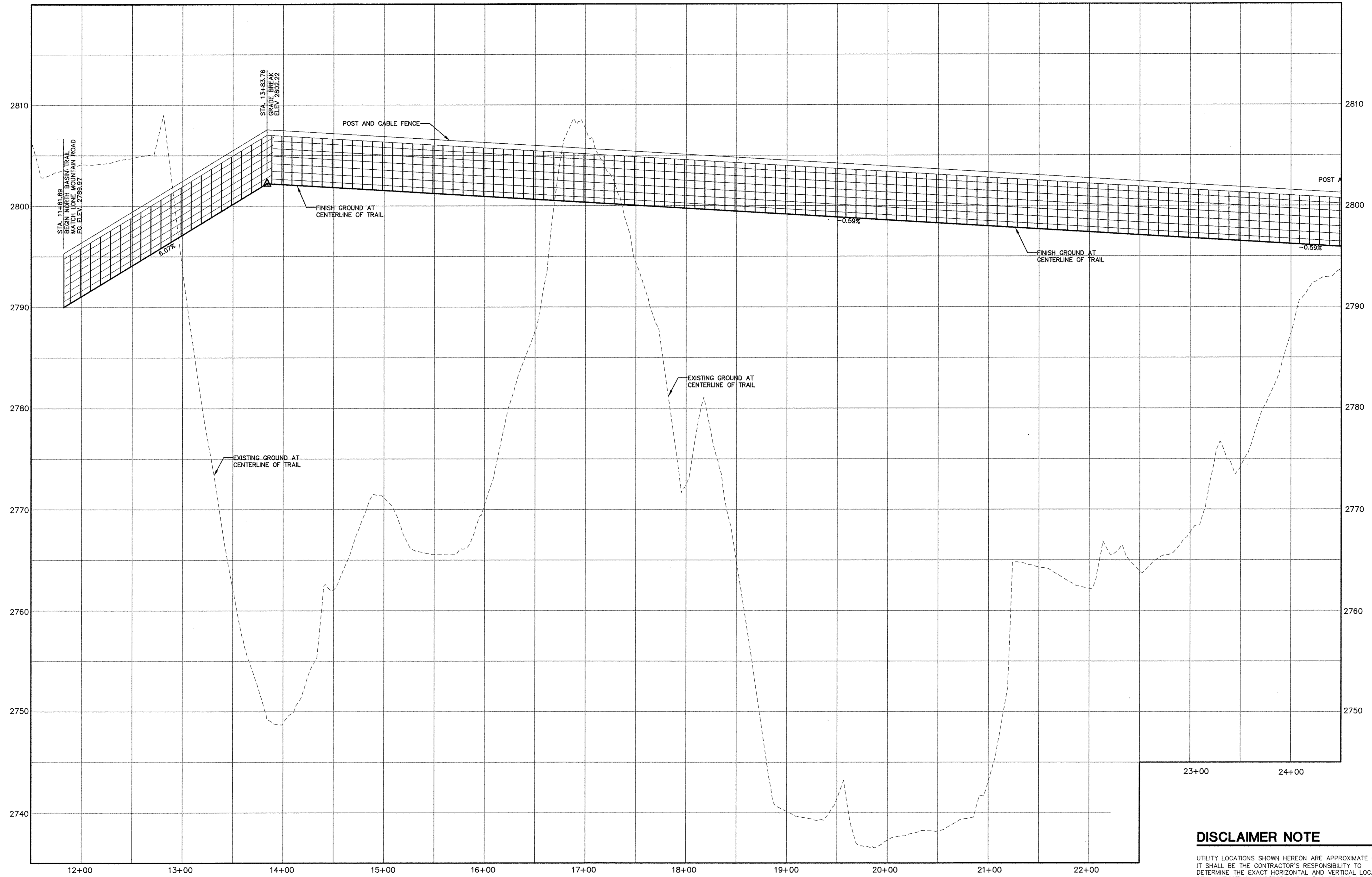
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD60
VERT:	AS SHOWN	
FIELD BOOK		SHT. 564 OF 600
CCPW PROJECT #		
W.O. #: 2008-62		

BID NO. 603576-15



**NORTH BASIN TRAIL PROFILE**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**DISCLAIMER NOTE**  
 UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



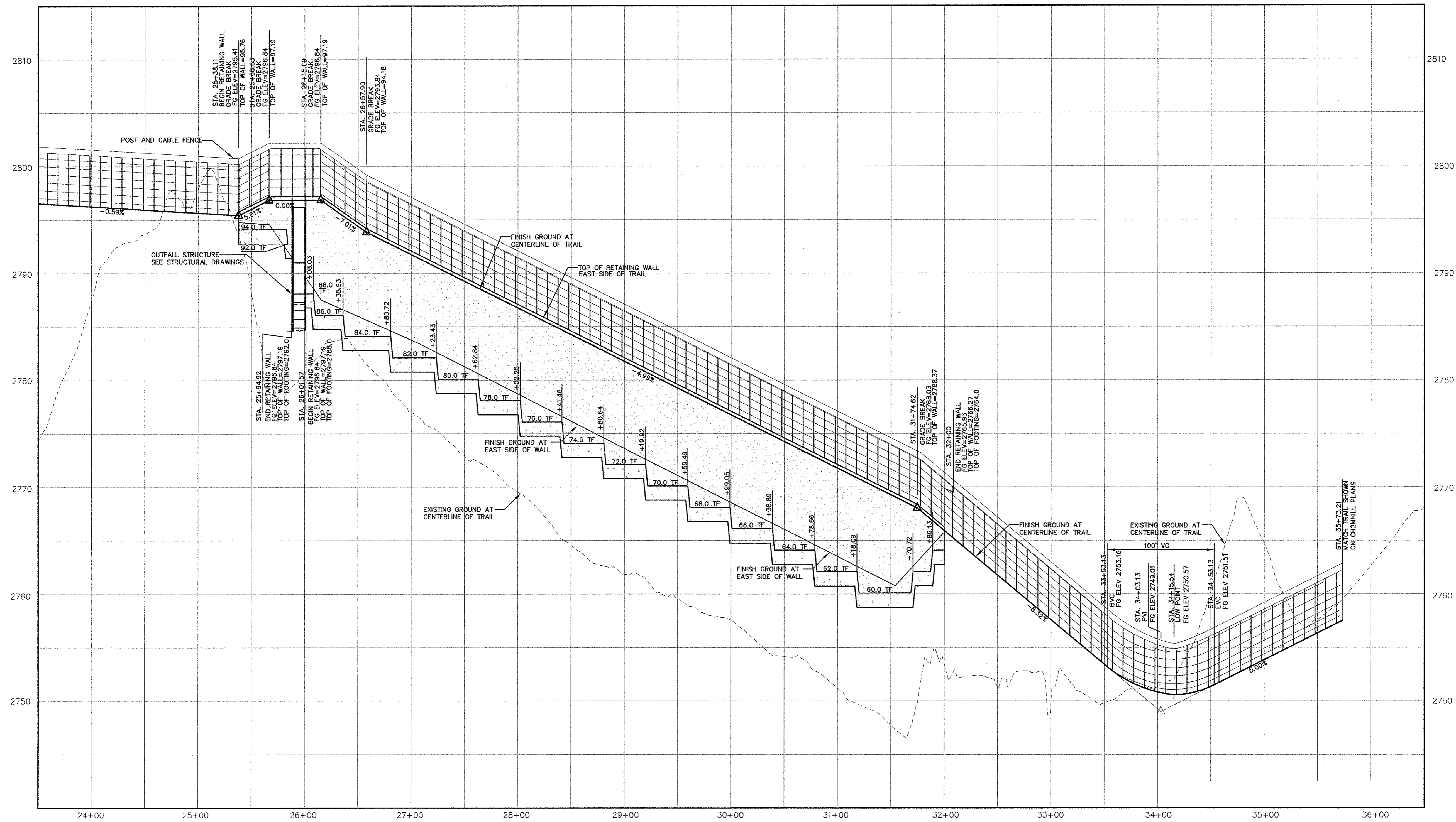
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 NORTH TRAIL PROFILE  
 STA. 11+75.59 TO STA. 24+50.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD61
VERT:	AS SHOWN	
FIELD BOOK		SHT. 565 OF 600
CPWP PROJECT #	2008-62	
W.O. #:	2008-62	

BID NO. 603576-15



**NORTH BASIN TRAIL PROFILE 1**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

**DISCLAIMER NOTE**

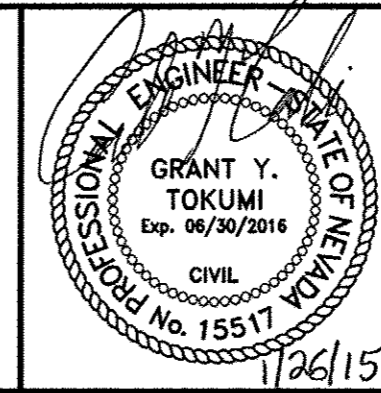
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



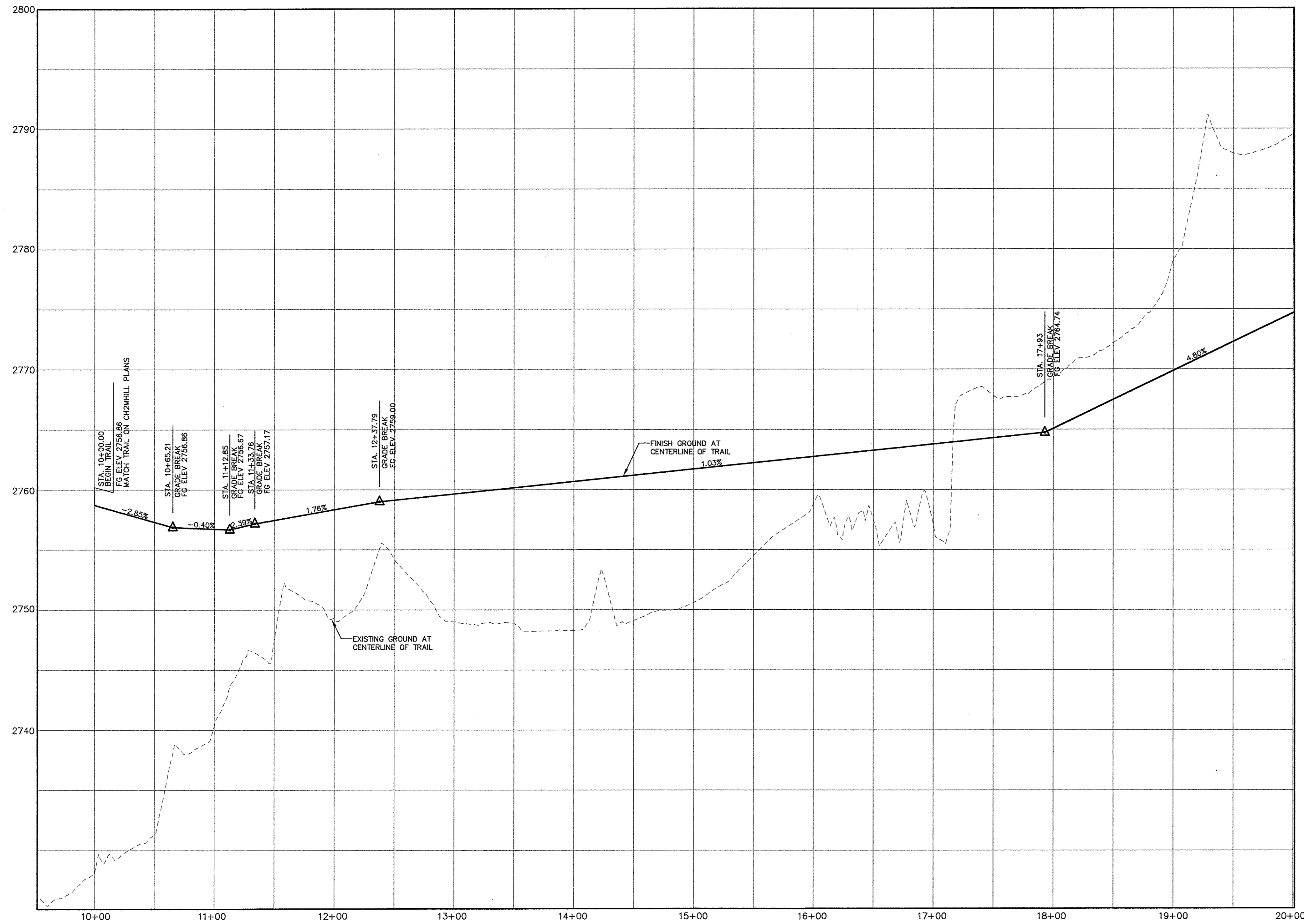
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 NORTH TRAIL PROFILE  
 STA. 24+50.00 TO STA. 35+73.21  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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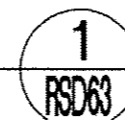
SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD62
VERT:	AS SHOWN	
FIELD BOOK		CCPW PROJECT #
W.O. #:	2008-62	SHT. 566 OF 600

BID NO. 603576-15



**SOUTH BASIN TRAIL PROFILE**

SCALE: HORIZ. 1" = 50'  
VERT. 1" = 5'

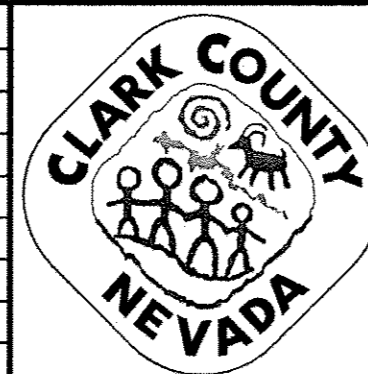


**DISCLAIMER NOTE**

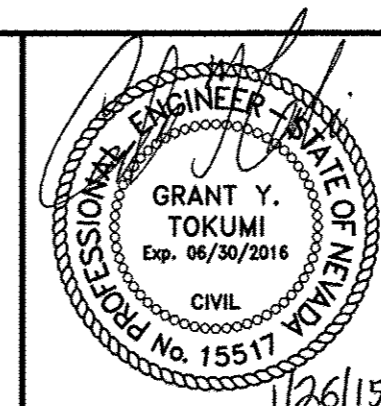
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED

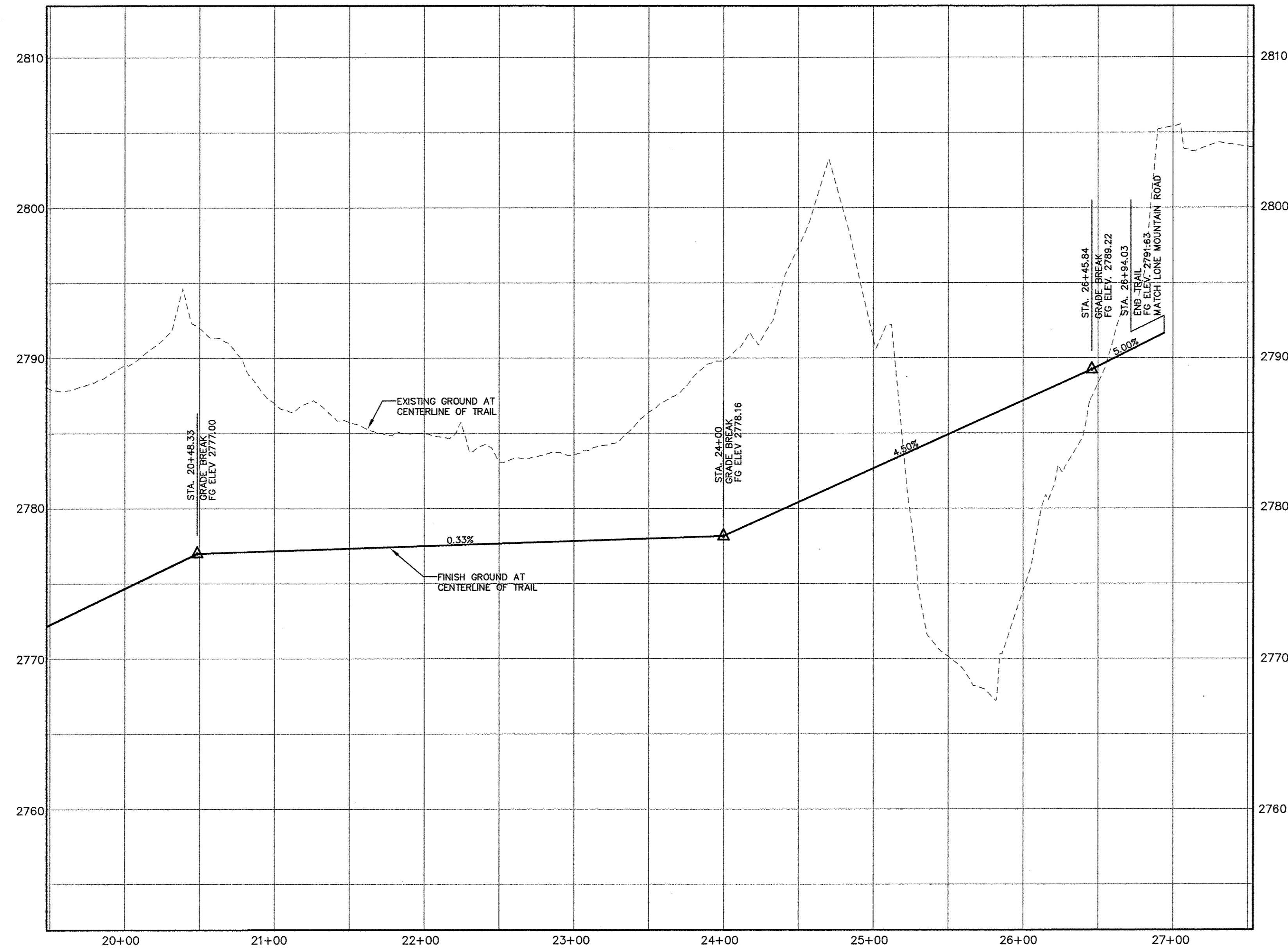


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**SOUTH TRAIL PROFILE**  
 STA. 10+00.00 TO STA. 20+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD63
VERT:	AS SHOWN	
FIELD BOOK		CPWP PROJECT #
W.O. #:	2008-62	SHT. 567 OF 600



**SOUTH BASIN TRAIL PROFILE**  
 SCALE: HORIZ. 1" = 50'  
 VERT. 1" = 5'

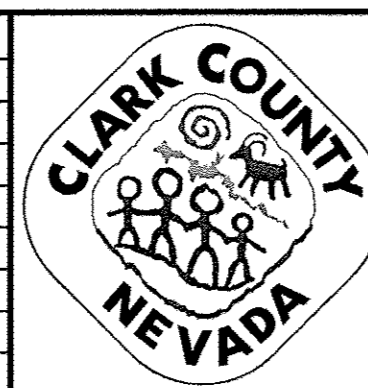
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RSD64

**DISCLAIMER NOTE**

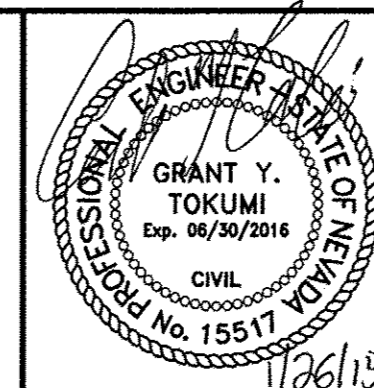
UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UNDERGROUND AND OVERHEAD UTILITIES PRIOR TO COMMENCING CONSTRUCTION. NO REPRESENTATION IS MADE THAT ALL EXISTING UTILITIES ARE SHOWN HEREON. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR UTILITIES NOT SHOWN OR UTILITIES NOT SHOWN IN THEIR PROPER LOCATION.



REV. NO.	DATE	DESCRIPTION	APPROVED



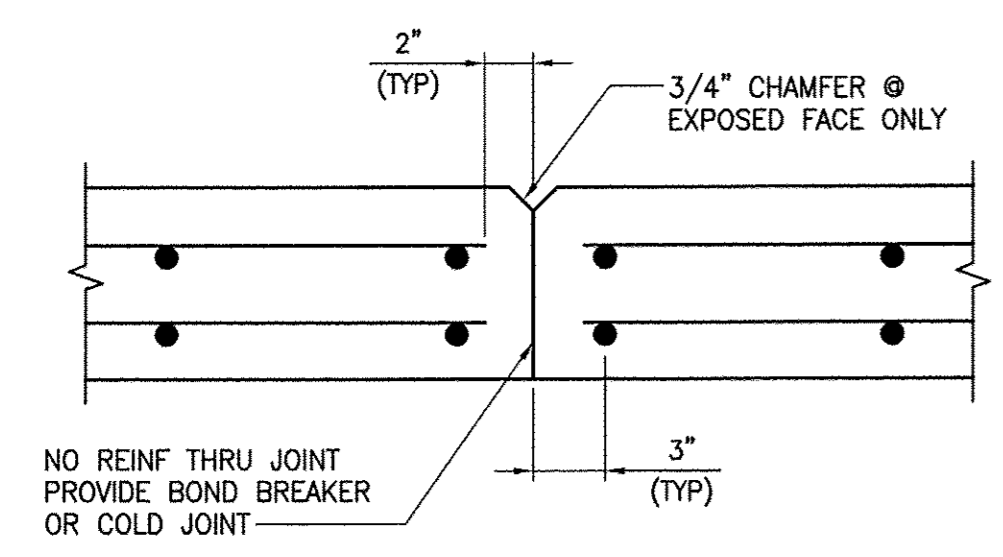
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 SOUTH TRAIL PROFILE  
 STA. 20+00.00 TO STA. 26+94.03  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



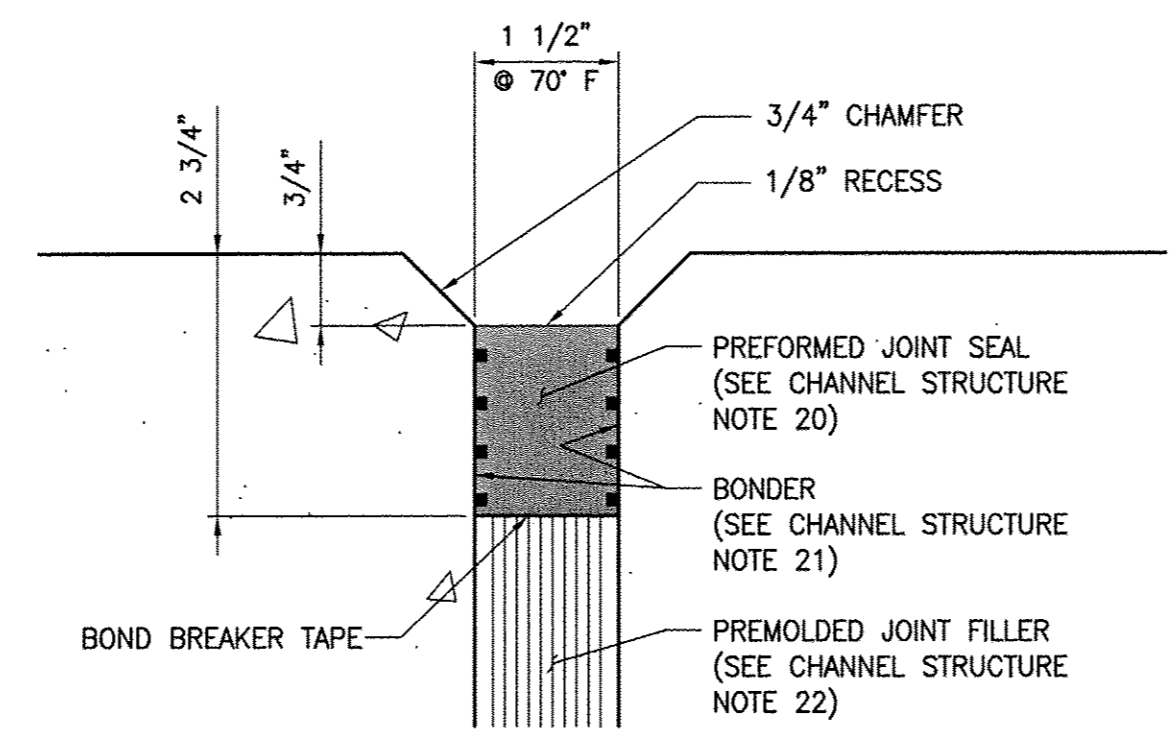
PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
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SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RSD64
VERT:	AS SHOWN	
FIELD BOOK		CCPW PROJECT #
W.O. #:	2008-62	SHT. 568 OF 600

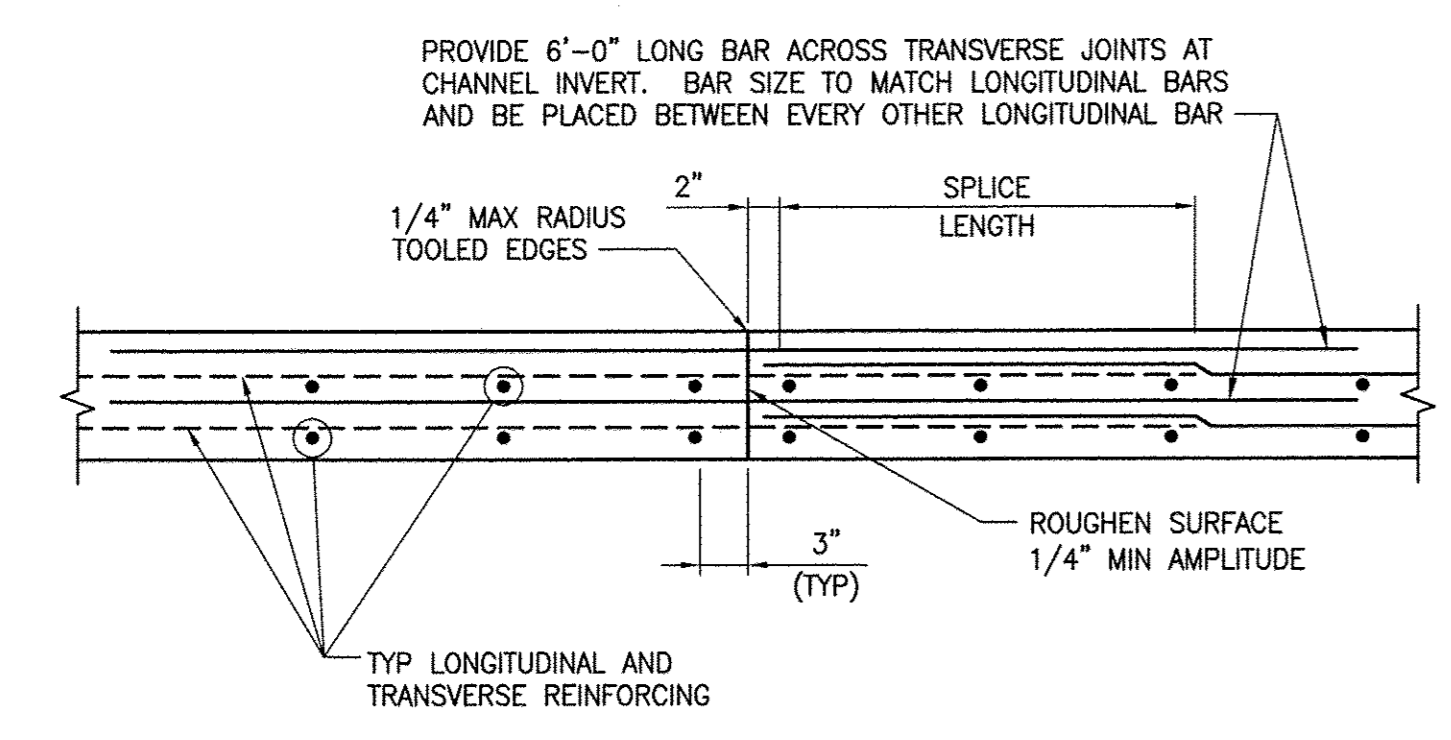
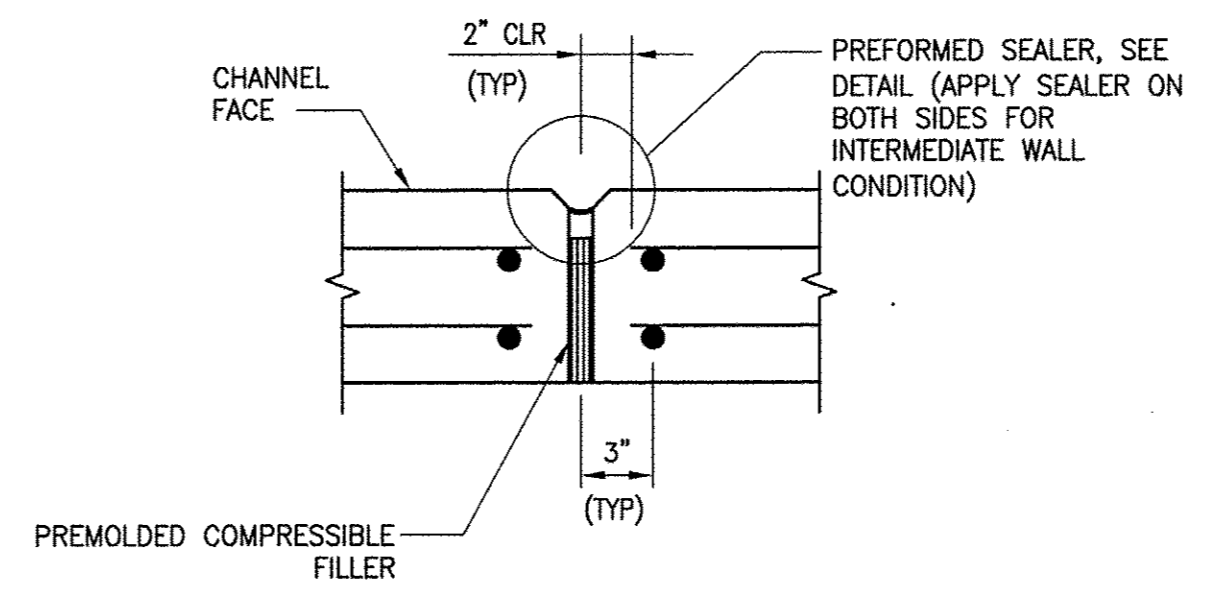
BID NO. 603576-15



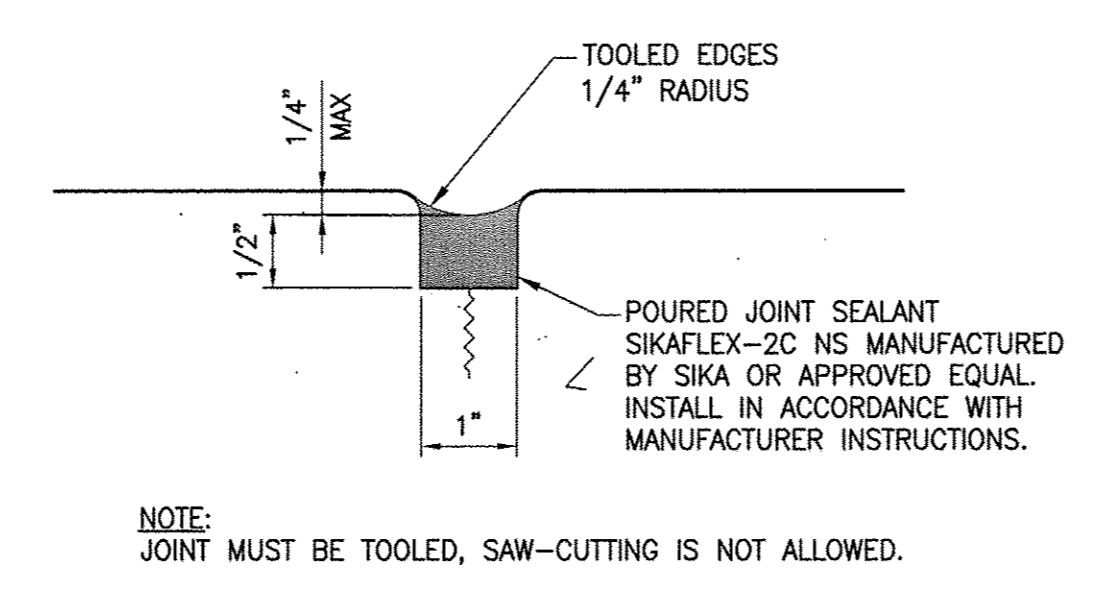
**6 WALL CONTRACTION JOINT DETAIL**  
SCALE: 1 1/2" = 1'-0"



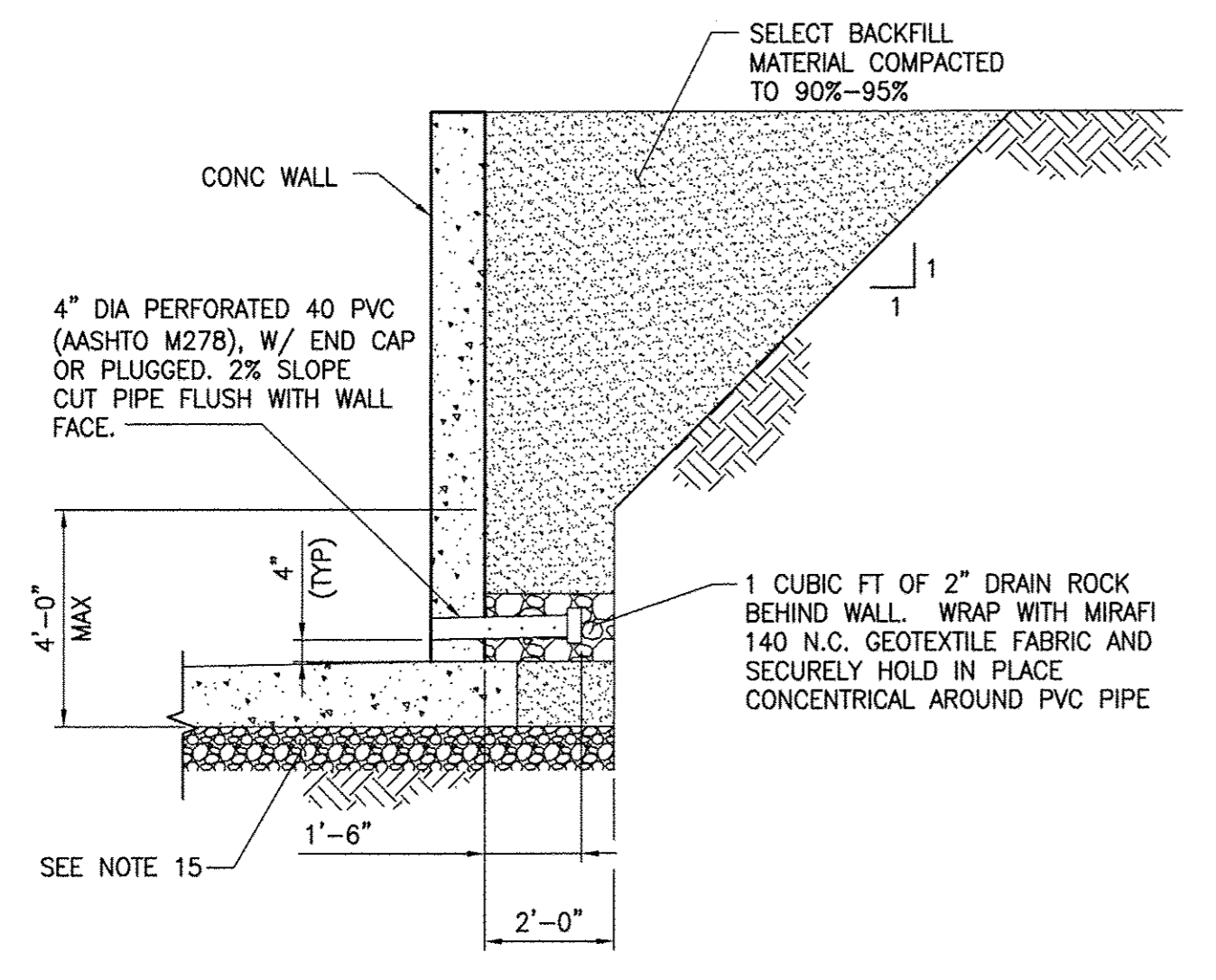
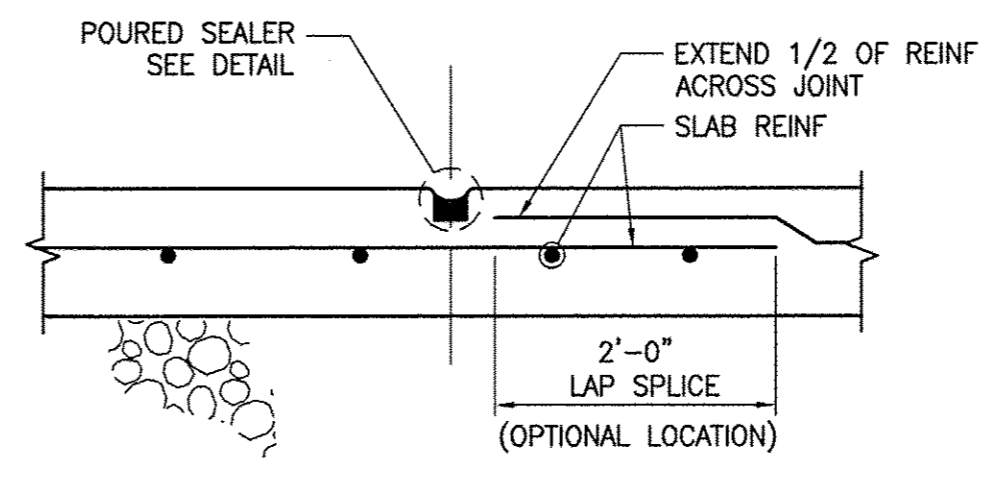
**3 WALL EXPANSION JOINT DETAIL**  
SCALE: NTS



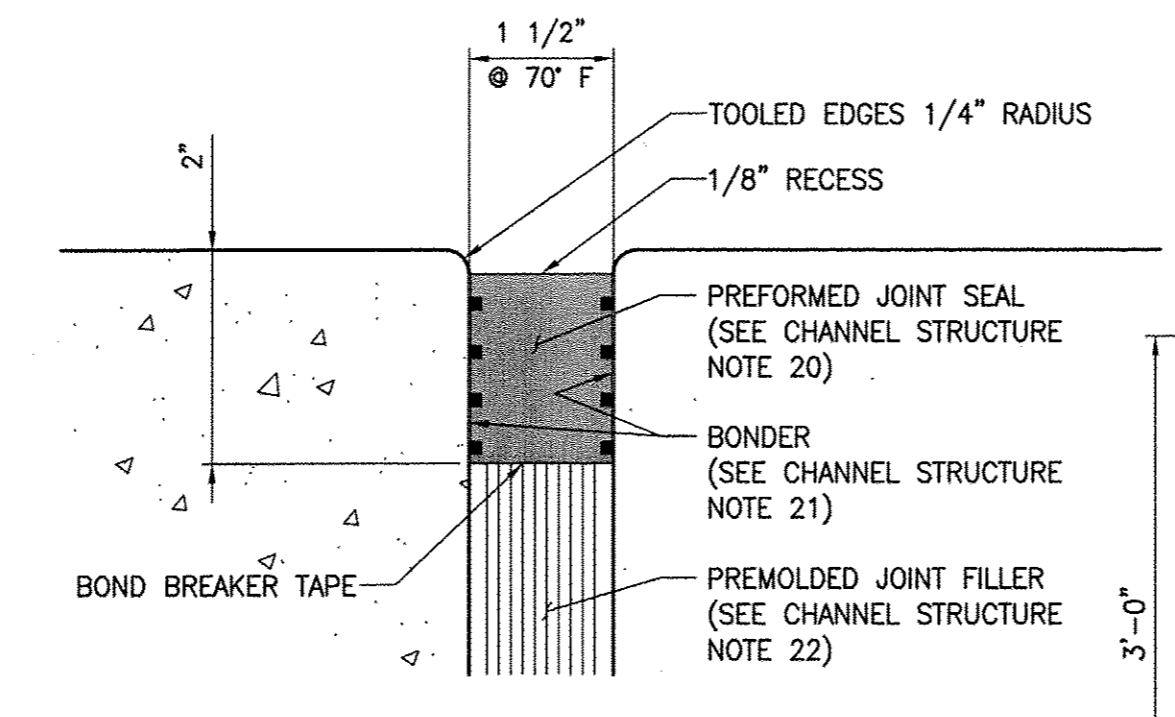
**5 CONSTRUCTION JOINT DETAIL**  
SCALE: NTS



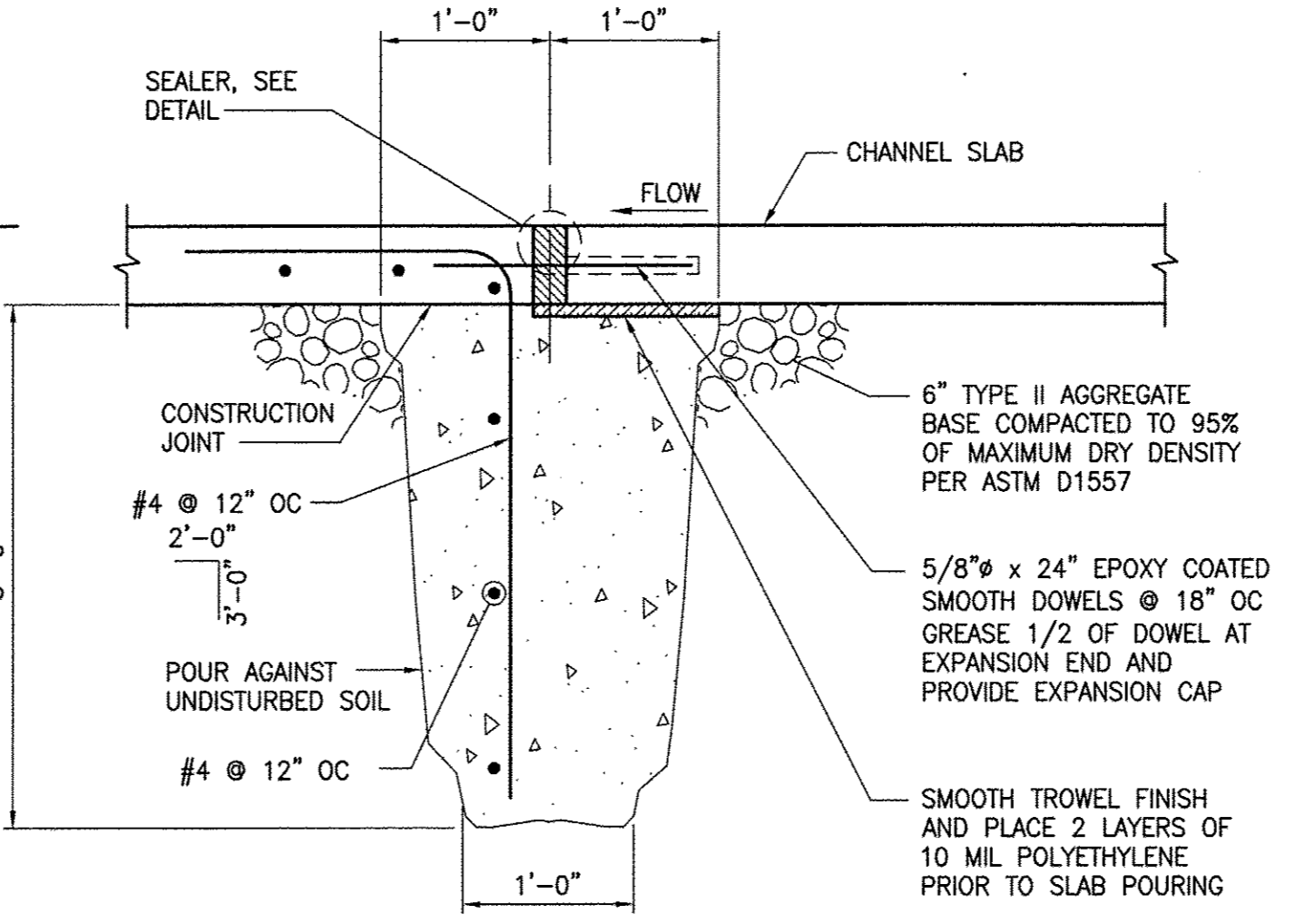
**2 INVERT WEAKENED PLANE JOINT DETAIL**  
SCALE: NTS



**4 WEEP HOLE DETAIL (FOR SPACING SEE NOTE 14)**  
SCALE: 3/8" = 1'-0"



**1 CUT-OFF WALL AND EXPANSION JOINT DETAIL**  
SCALE: NTS  
SPACED @ 180' UNLESS OTHERWISE NOTED



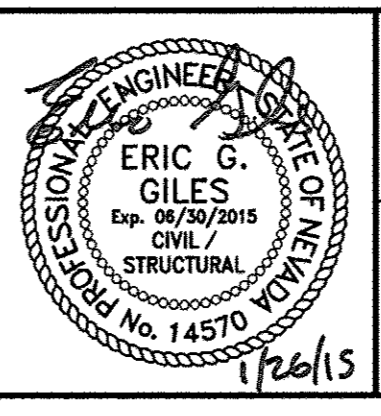
**GENERAL STRUCTURAL NOTES:**

- DESIGN SPECIFICATIONS:** INTERNATIONAL BUILDING CODE (IBC 2012). AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION, 2010.
- CONSTRUCTION SPECIFICATIONS:** UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA.
- LIVE LOAD:** TRAFFIC SURCHARGE FROM MAINTENANCE VEHICLES (2' OF SOIL) AS PER AASHTO SPECIFICATIONS AND/OR WHEEL LOAD (H20 STANDARD TRUCK).
- CONCRETE:** ALL CONCRETE SHALL BE CLASS A MODIFIED (MAJOR) EXCEPT FOR WALLS, WHICH WILL BE CLASS D MODIFIED (MAJOR) ONLY TYPE V CEMENT SHALL BE USED FOR CONCRETE IN CONTACT WITH SOIL. 28 DAY CONCRETE MINIMUM COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:  
CHANNEL INVERT SLAB, DISSIPATOR BLOCKS, SPILLWAY INVERT SLAB AND SPILLWAY STEPS: F<sub>c</sub> = 6,000 PSI  
WALLS AND OTHER STRUCTURES: F<sub>c</sub> = 4,500 PSI
- REINFORCING STEEL:** ALL REINFORCING STEEL SHALL BE ASTM A615 REINFORCING STEEL STRENGTH, F<sub>y</sub> = 60,000 PSI.
- ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE INDICATED.
- TRANSVERSE JOINTS IN INVERT SLAB AND WALLS FOR RECTANGULAR CHANNELS WILL BE REQUIRED AT THE END OF EACH CONTINUOUS POURING OPERATION. TRANSVERSE CONSTRUCTION JOINTS SHALL NOT BE PLACED WITHIN 10'-FEET OF AN EXPANSION JOINT OR PIPE PENETRATION.
- ALL TRANSVERSE JOINTS IN WALLS AND SLABS (CONSTRUCTION, WEAKENED, CONTRACTION AND EXPANSION) SHALL BE IN THE SAME PLANE. NO STAGGERING OF JOINTS WILL BE PERMITTED UNLESS SHOWN OTHERWISE. TRANSVERSE CONSTRUCTION JOINTS SHALL BE NORMAL OR RADIAL TO CENTERLINE OF CONSTRUCTION.
- WALL JOINTS SHALL BE SPACED, UNLESS OTHERWISE NOTED, AS FOLLOWS:  
CONTRACTION JOINTS AT 60'-0" MAXIMUM (SEE DETAIL 6 ON THIS DRAWING)  
EXPANSION JOINTS AT 180'-0" MAXIMUM (SEE DETAIL 3 ON THIS DRAWING)  
INVERT SLAB JOINTS SHALL BE SPACED, UNLESS OTHERWISE NOTED, AS FOLLOWS:  
WEAKENED PLANE JOINTS AT 60'-0" MAXIMUM (SEE DETAIL 2 ON THIS DRAWING)  
EXPANSION JOINTS (AND CUT-OFF WALL) AT 180'-0" MAXIMUM (SEE DETAIL 1 ON THIS DWG)
- ALL SINGLE LAYER REINFORCEMENT SHALL BE PLACED IN THE CENTER OF CONCRETE UNLESS NOTED OTHERWISE.
- IN CURVED CHANNEL SECTIONS, TRANSVERSE BARS SHALL BE PLACED NORMAL TO THE CHANNEL CENTERLINE, AND THE MAXIMUM SPACING OF BARS SHALL NOT EXCEED THAT SHOWN FOR TYPICAL SECTIONS. STEEL SHALL BE PLACED RADIAL FROM THE MAXIMUM SPACING.
- AT THE BEGINNING AND ENDING OF ALL POURS, A COMPLETE CURTAIN OF MAIN REINFORCEMENT SHALL BE PLACED 3-INCHES FROM THE TRANSVERSE CONSTRUCTION, CONTRACTION AND EXPANSION JOINTS.
- CHANNEL ELEVATIONS:** FOR CHANNEL INVERT ELEVATIONS REFER TO THE CHANNEL PLAN AND PROFILE SHEETS LOCATED ELSEWHERE IN THIS DRAWING SET.
- WEEP HOLES:** PROVIDE WEEP HOLES AT CHANNEL AND RETAINING WALLS AT MAXIMUM SPACING OF 15' (UNLESS NOTED OTHERWISE).
- BEDDING MATERIALS:** UNLESS NOTED OTHERWISE, ALL BEDDING MATERIAL SHALL BE 6-INCHES OF TYPE II AGGREGATE BASE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM TEST METHOD D-1557. BELOW RETAINING WALL AND CHANNEL FOOTINGS COMPACTION SHALL BE AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. A MINIMUM DEPTH OF 6-INCHES BELOW THE BEDDING MATERIAL SHALL BE SCARIFIED AND RECOMPACTED TO THE SAME DENSITY AS THE BEDDING MATERIAL.
- STRUCTURAL STEEL:** W-SHAPE STEEL BEAMS SHALL CONFORM TO ASTM A992. ALL OTHER MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE. ALL EXPOSED METAL SHALL BE GALVANIZED.
- GEOTECHNICAL INVESTIGATION:** PROVIDED BY CONVERSE CONSULTANTS, PROJECT NO. 03-33287-03, DATED MAY 23, 2008.
- STRUCTURE BACKFILL:** BACKFILL MATERIAL PLACED BEHIND SUBSURFACE RETAINING WALLS FOR CHANNELS, BOX CULVERTS, OR OTHER STRUCTURES SHALL BE GRANULAR MATERIAL FREE OF PARTICLES LARGER THAN 3 INCHES IN SIZE. ALL MATERIALS SHALL BE MOISTURE CONDITIONED TO WITHIN 2 PERCENT OF OPTIMUM AND COMPACTED TO BETWEEN 90 AND 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557. OVERCOMPACTION SHOULD BE AVOIDED.
- EPOXY:** ADHESIVE ANCHORS SHALL BE SIMPSON STRONG-TIE "SET-XP EPOXY-TIE ADHESIVE" PER ICC ESR-2508 OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- PREFORMED EXPANSION JOINT SEAL:** PHYZYTE 380 WITH H.A.L.S. MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR APPROVED EQUAL. SIZE AND INSTALL SEAL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. VERIFY DEPTH WITH MANUFACTURER. THE WIDTH OF THE SEAL SHALL BE 25% GREATER THAN THE WIDTH OF THE JOINT AT THE TIME OF INSTALLATION. MEASURE WIDTH OF JOINT AFTER INITIAL SHRINKAGE AND THERMAL MOVEMENT HAS OCCURRED. ALL JOINTS IN THE COMPRESSION SEAL SHALL BE HEAT WELDED. THE JOINT MATERIAL SHALL HAVE E.S.P. (ENGINEERED SURFACE PREPARATION) GROOVES PER MANUFACTURER RECOMMENDATIONS.
- BONDER:** EVA-POX BONDER NO. 1 MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR APPROVED EQUAL. APPLY TO BOTH SIDES OF SEAL AND CONCRETE. BONDER SHALL FILL THE GROOVES OF THE SEAL.
- PREMOLDED JOINT FILLER:** EVA-SEAL 30 WITH 2" TERRA-STRIP MANUFACTURED BY CHASE CONSTRUCTION PRODUCTS OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS.
- EXISTING UTILITIES:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES WITHIN THE WORK AREA AND PROVIDING PROTECTION FOR THE VARIOUS UTILITIES AFFECTED PRIOR TO PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL PROVIDE SLOPE STABILIZATION, SHEETING, BRACING, AND/OR SHORING AS REQUIRED TO PROTECT EXISTING EMBANKMENTS, STRUCTURES, AND UNDERGROUND ITEMS.
- INVERTS, SLOPES, BEARINGS, ALIGNMENTS, AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE FOR "REFERENCE ONLY". INFORMATION ON CIVIL DRAWINGS SHALL GOVERN.
- MASONRY:** MASONRY UNITS SHALL CONFORM TO ASTM C-90, GRADE N-1 MEDIUM WEIGHT HOLLOW CONCRETE UNITS. MASONRY DESIGN STRESS IS AS FOLLOWS: f<sub>m</sub>=1,500 psi. SPECIAL INSPECTION SHALL BE PROVIDED. MORTAR SHALL CONFORM TO ASTM C270, TYPE "M" OR "S" WITH A MINIMUM STRENGTH OF 1,900 psi AT 28 DAYS. GROUT SHALL HAVE A MINIMUM STRENGTH OF 2,000 psi AT 28 DAYS. CEMENT SHALL CONFORM TO ASTM C150 TYPE V.
- CAST-IN-PLACE CONCRETE SHALL BE POURED UP AGAINST EXISTING PRECAST RCBS TO PRODUCE TIGHT JOINTS. TYPICAL AT ALL PRECAST/CAST-IN-PLACE INTERFACES.

REV. NO.	DATE	DESCRIPTION	APPROVED



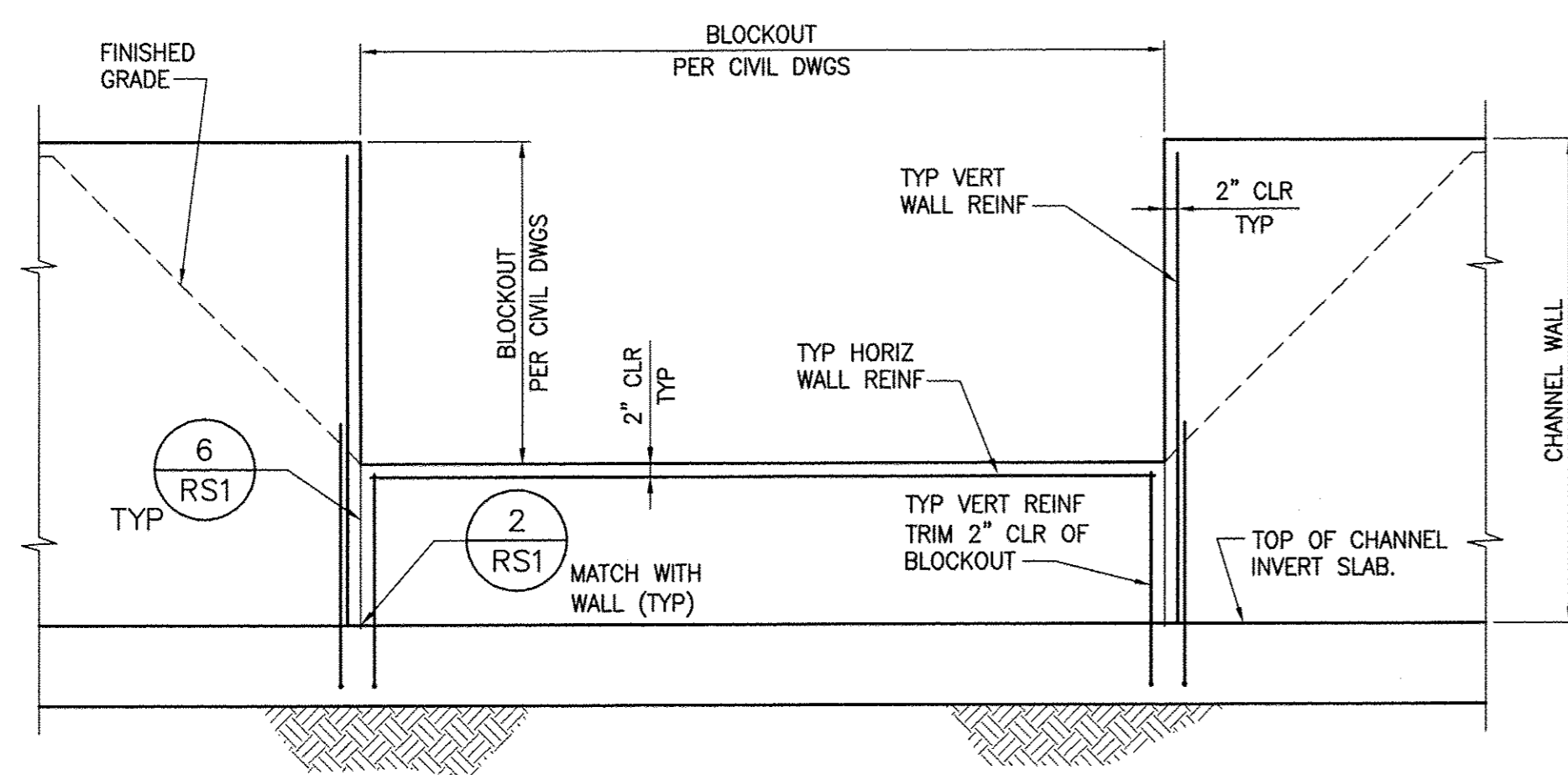
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



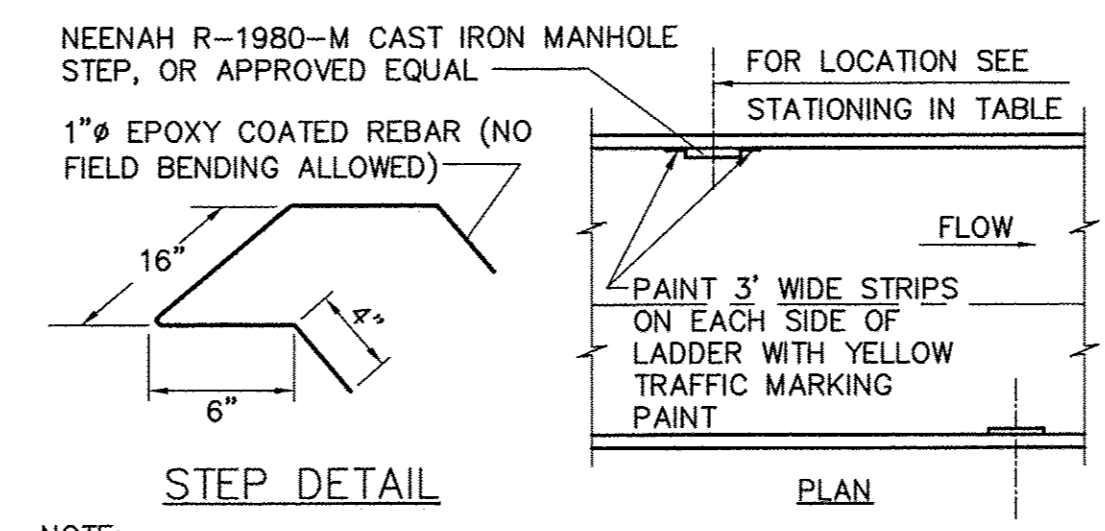
PROJECT No: 451.002.001 DRAWN BY: EAV  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
P: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		SHT. 569 OF 600
W.O. #:	2008-62	

BID NO. 603576-15



**7 BLOCKOUT DETAIL**  
SCALE: NOT TO SCALE REF DWG: RSD40

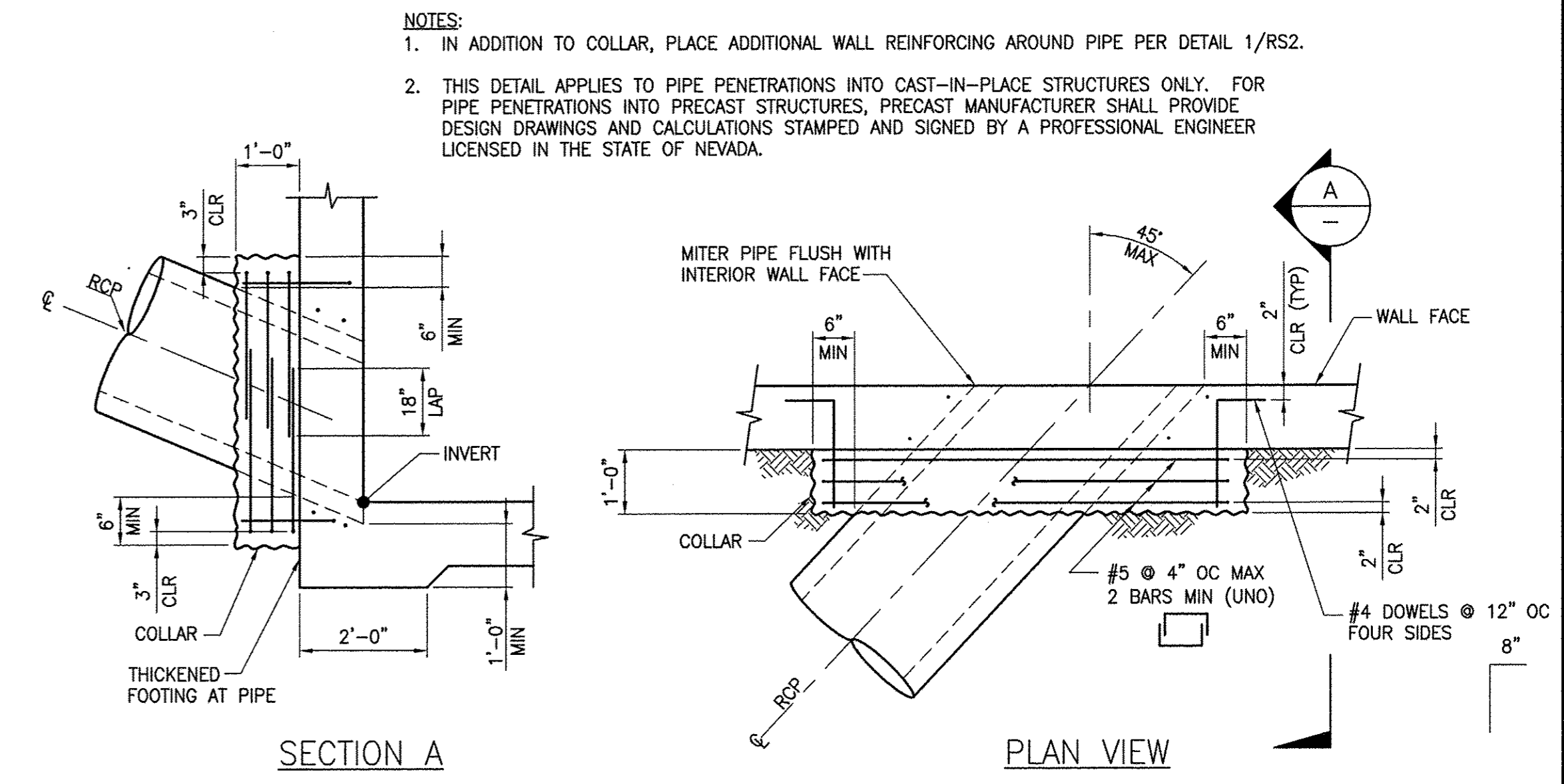


NOTE:  
AT CONTRACTOR'S OPTION STEPS  
MAY BE INSTALLED BY DRILLING  
AND EPOXY GROUTING

STEP SCHEDULE

"GBWC"	RT	736+38.00
	LT	736+53.00
"SDLM-1"	RT	10+35.31
	LT	11+31.31
"SDLM-3"	RT	10+12.00
	LT	11+04.00
"RC-2"	RT	68+55.00
	LT	68+63.00
	RT	74+55.00
	LT	74+63.00

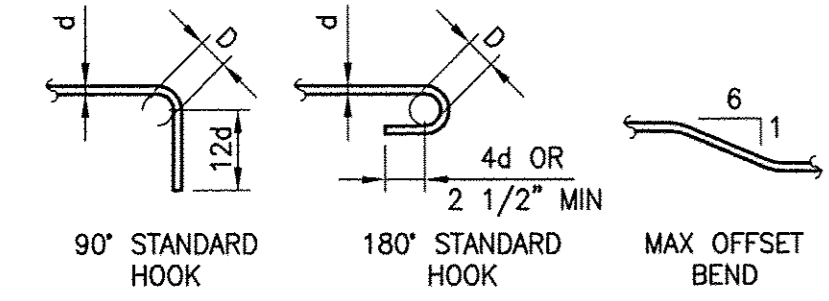
**5 CHANNEL STEPS**  
SCALE: NOT TO SCALE



**2 TYPICAL PIPE COLLAR DETAIL**  
SCALE: NOT TO SCALE

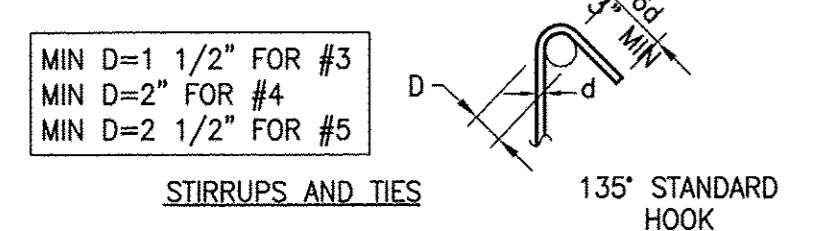
**BEND NOTES:**

- ALL BENDS SHALL BE MADE COLD.
- #14 AND #18 BARS SHALL BE BEND TESTED AND LAB APPROVED PRIOR TO BENDING.



D=6d FOR #3 TO #8  
D=8d FOR #9 TO #11  
D=10d FOR #14 AND #18

**PRINCIPAL REINFORCING**



**BAR BENDS**

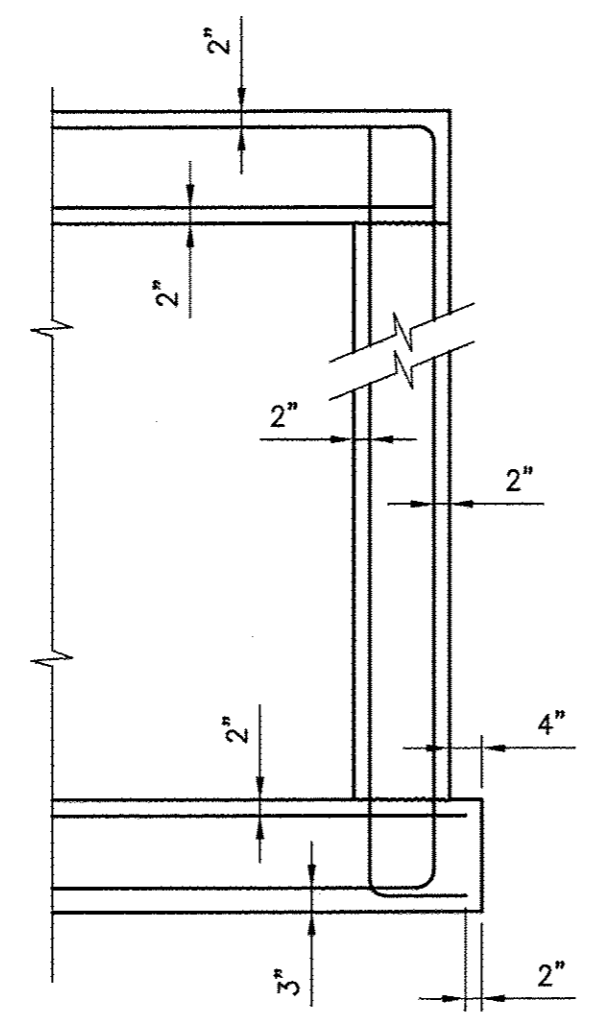
BAR SIZE	LAP CLASS	f'c = 4500 psi			
		TOP BARS CASE 1	TOP BARS CASE 2	OTHER BARS CASE 1	OTHER BARS CASE 2
#3	A	18	27	14	21
	B	23	35	18	27
#4	A	24	36	18	27
	B	31	46	24	35
#5	A	30	44	23	34
	B	38	57	30	44
#6	A	35	53	27	41
	B	46	69	35	53
#7	A	51	77	40	59
	B	67	100	51	77
#8	A	59	88	45	68
	B	76	114	59	88
#9	A	66	99	51	76
	B	86	128	66	99
#10	A	74	111	57	86
	B	96	144	74	111
#11	A	82	123	64	95
	B	107	160	82	123

**LAP SCHEDULE**

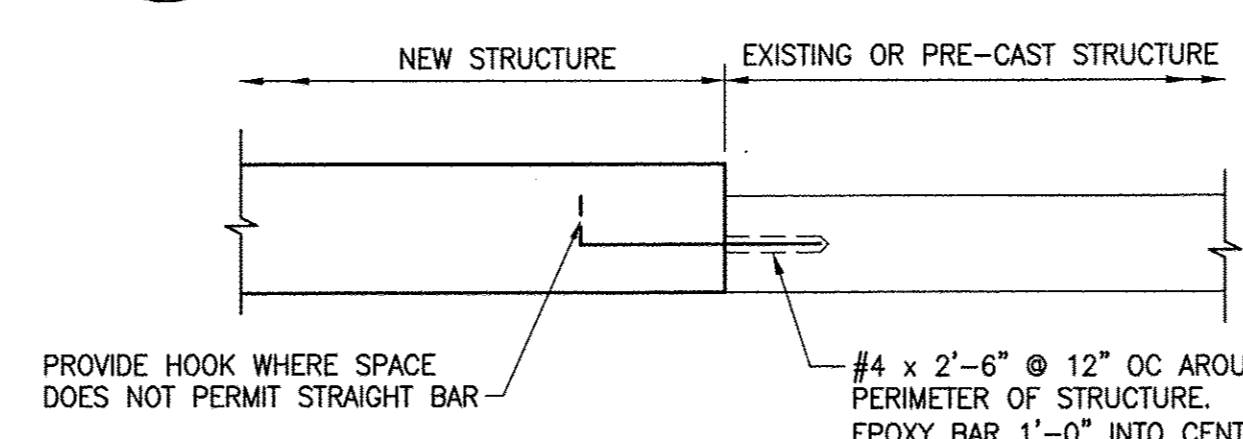
**8 REINF LAP SPLICE AND BEND DETAIL**  
SCALE: NOT TO SCALE

**LAP SPLICE NOTES:**

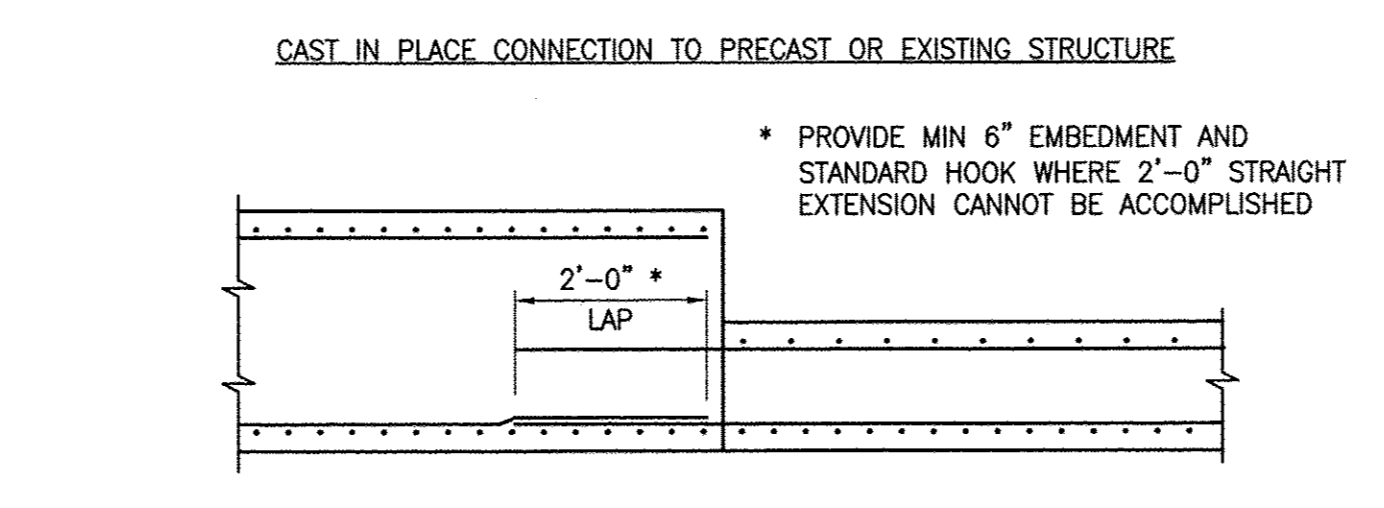
- TABLE FOR USE WITH NORMAL WEIGHT HARDROCK CONCRETE AND GRADE 60 UNCOATED REINF BARS.
- CLASS A - HALF OR LESS OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH. CLASS B - MORE THAN HALF OF THE BARS ARE SPLICED WITHIN A REQUIRED LAP LENGTH.
- TOP BARS ARE HORIZ BARS WITH 12" OR MORE OF CONCRETE CAST IN THE MEMBER BELOW THE BAR.
- LAP SPLICES OF INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE 1.2 Ld FOR THAT BAR IN A 3-BAR BUNDLE AND 1.33 Ld FOR A 4-BAR BUNDLE. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED AT THE SAME LOCATION. SPLICES FOR INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE STAGGERED SUCH THAT THEY DO NOT OVERLAP.
- Ld-ACI LAP LENGTH, SHOWN AT RIGHT, (IN INCHES).
- CASE SELECTION:  
-FOR FOUNDATION REINFORCING USE CASE 1 UNO  
-FOR COLUMN REINFORCING AND DOWELS USE CASE 1 UNO  
-FOR BEAM REINFORCING USE CASE 1 UNO  
-FOR STRUCTURAL SLAB REINFORCING USE CASE 2 UNO  
-FOR SLAB ON GRADE REINFORCING USE CASE 1 UNO  
-FOR WALL REINFORCING AND DOWELS USE CASE 1 (EXCEPT AS NOTED BELOW) UNO  
-FOR WALLS WITH A SINGLE MAT OF STEEL CENTERED IN THE WALL, USE CASE 1 FOR WALL REINFORCING AND DOWELS UNO  
-FOR CHORD STEEL REINFORCING USE CASE 2 UNO  
-FOR DRILLED SHAFTS USE CASE 1 UNO



**6 TYPICAL CONCRETE COVER**  
SCALE: NOT TO SCALE



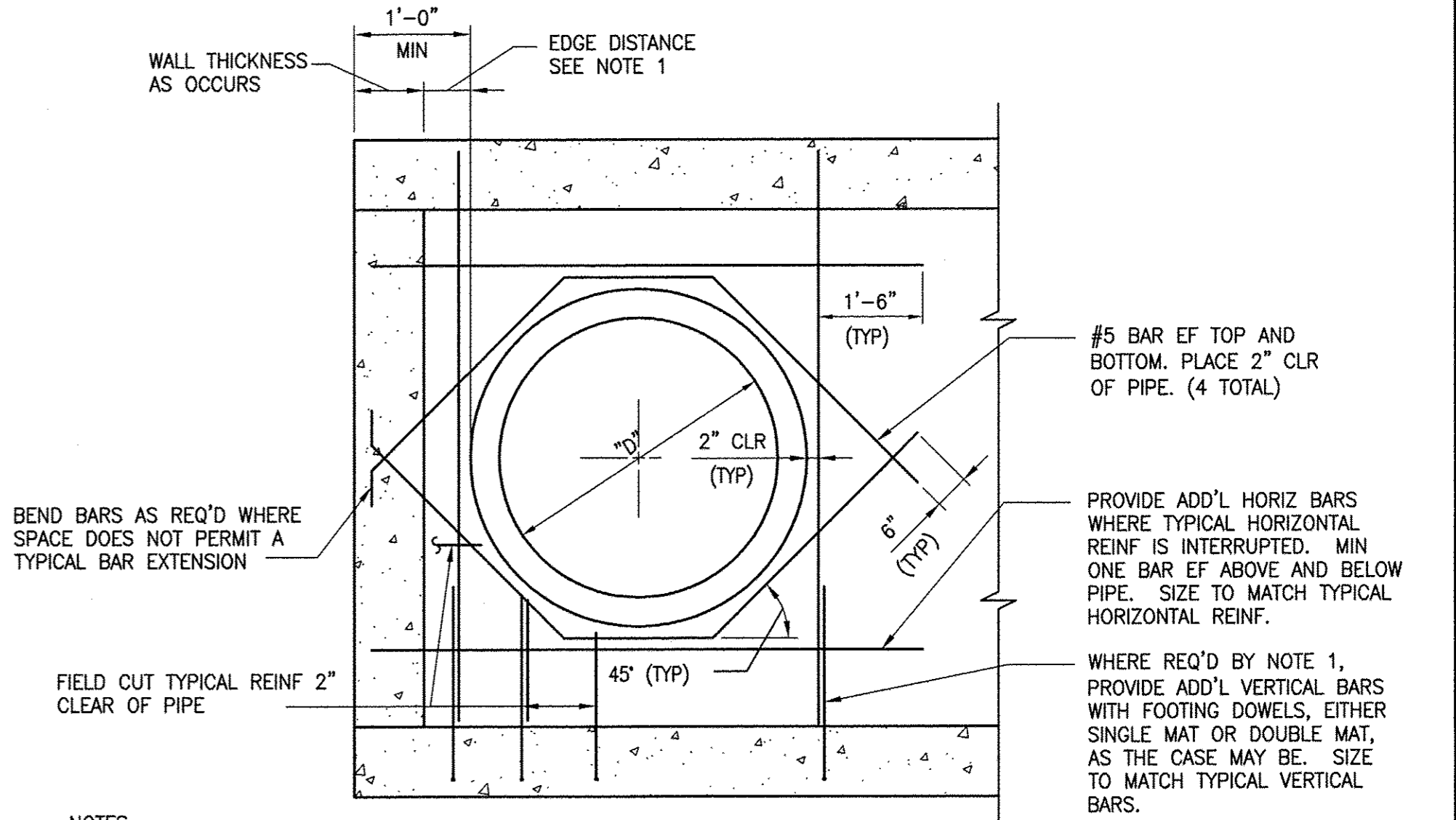
**4 TYPICAL DOWEL CONNECTION DETAIL**  
SCALE: NOT TO SCALE



BAR SCHEDULE

BAR SIZE	"L" LAP
#4	2'-0"
#5	2'-6"
#6	3'-6"
#7	4'-6"
#8	5'-0"

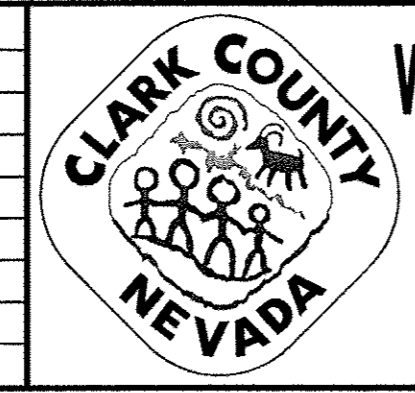
**3 TYPICAL CORNER DETAIL**  
SCALE: NOT TO SCALE



- NOTES:
- WHERE EDGE DISTANCE IS GREATER THAN PIPE DIAMETER "D", PROVIDE ADDITIONAL VERTICAL BARS IN AN AMOUNT EQUAL TO ONE-HALF THE VERTICAL BARS INTERRUPTED AT THE PIPE.
  - FIELD CUT TYPICAL WALL REINFORCING 2" CLR OF PIPE.
  - WHEN WALL IS LESS THAN 9" THICK REINFORCING DOES NOT NEED TO BE PLACED IN EACH FACE AS STATED ABOVE.
  - IF BARS CANNOT EXTEND BEYOND PIPE AS SHOWN, EXTEND AS FAR AS POSSIBLE AND PROVIDE STANDARD HOOK.
  - THIS DETAIL APPLIES TO PIPE PENETRATIONS INTO CAST-IN-PLACE STRUCTURES ONLY. FOR PIPE PENETRATIONS INTO PRECAST STRUCTURES, PRECAST MANUFACTURER SHALL PROVIDE DESIGN DRAWINGS AND CALCULATIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEVADA.

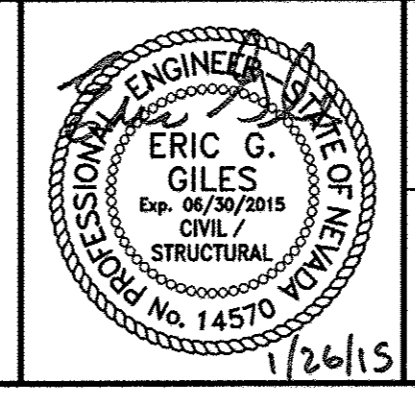
**1 TYPICAL WALL PIPE PENETRATION**  
SCALE: NOT TO SCALE

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
TYPICAL DETAILS II

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

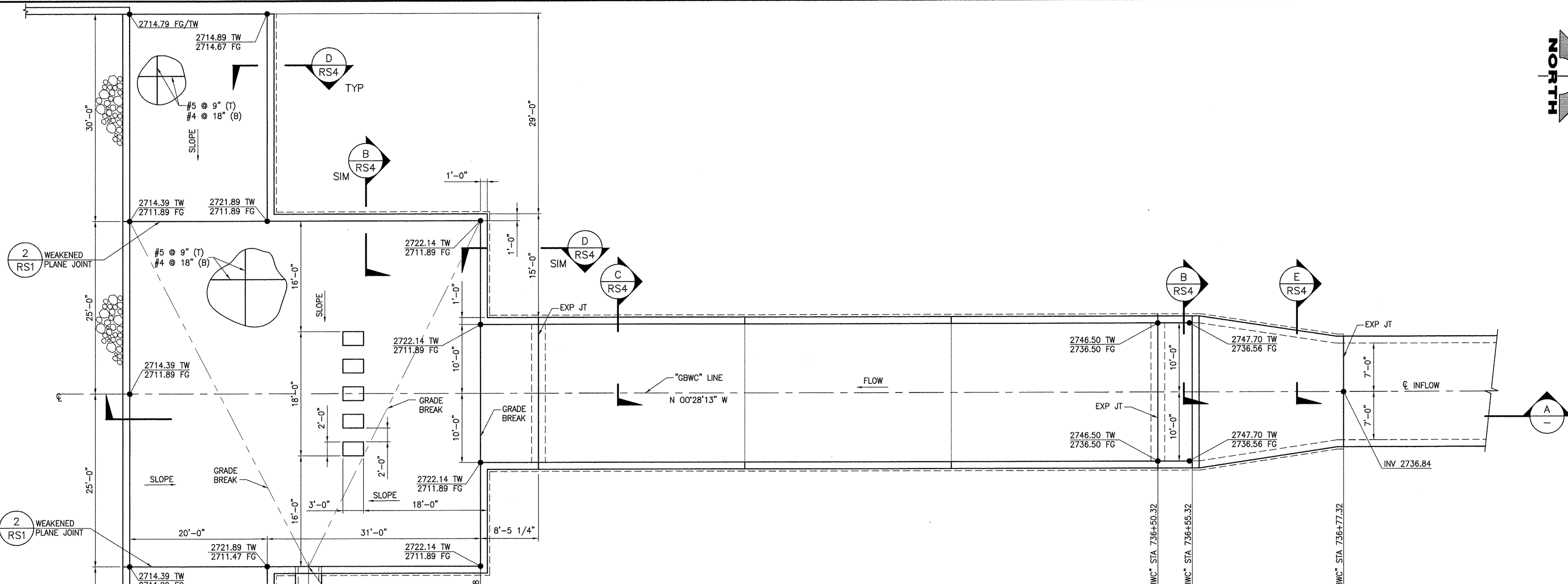
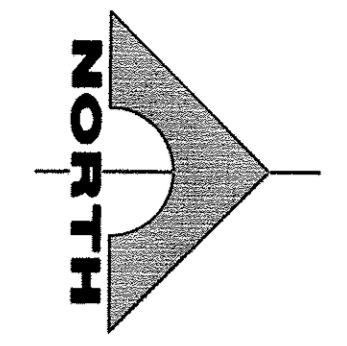


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
G. C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

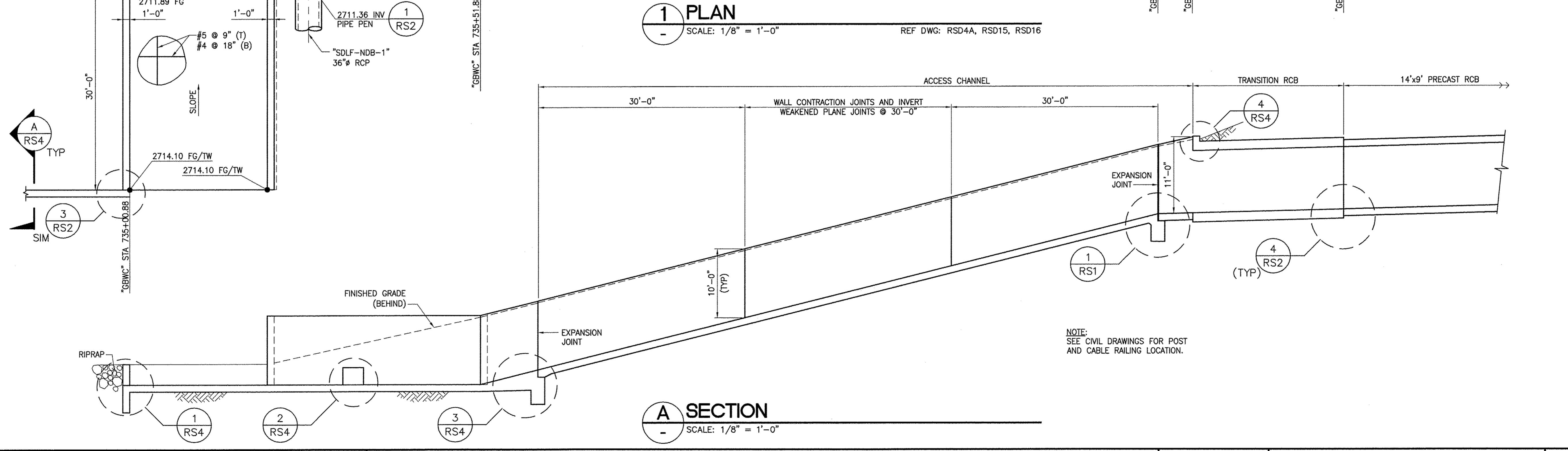
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 570 OF 600
CCPW PROJECT #		
W.O. #:		2008-62

BID NO. 603576-15





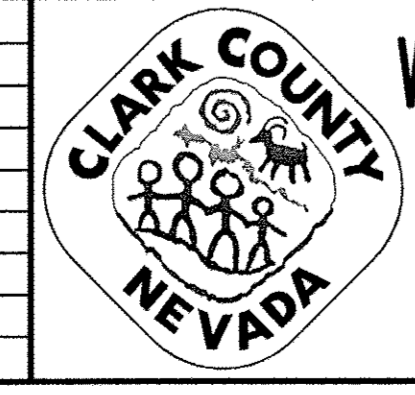
**1 PLAN**  
SCALE: 1/8" = 1'-0"  
REF DWG: RSD4A, RSD15, RSD16



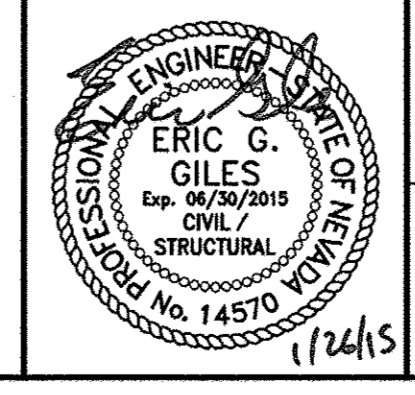
**A SECTION**  
SCALE: 1/8" = 1'-0"

NOTE:  
SEE CIVIL DRAWINGS FOR POST  
AND CABLE RAILING LOCATION.

REV. NO.	DATE	DESCRIPTION	APPROVED



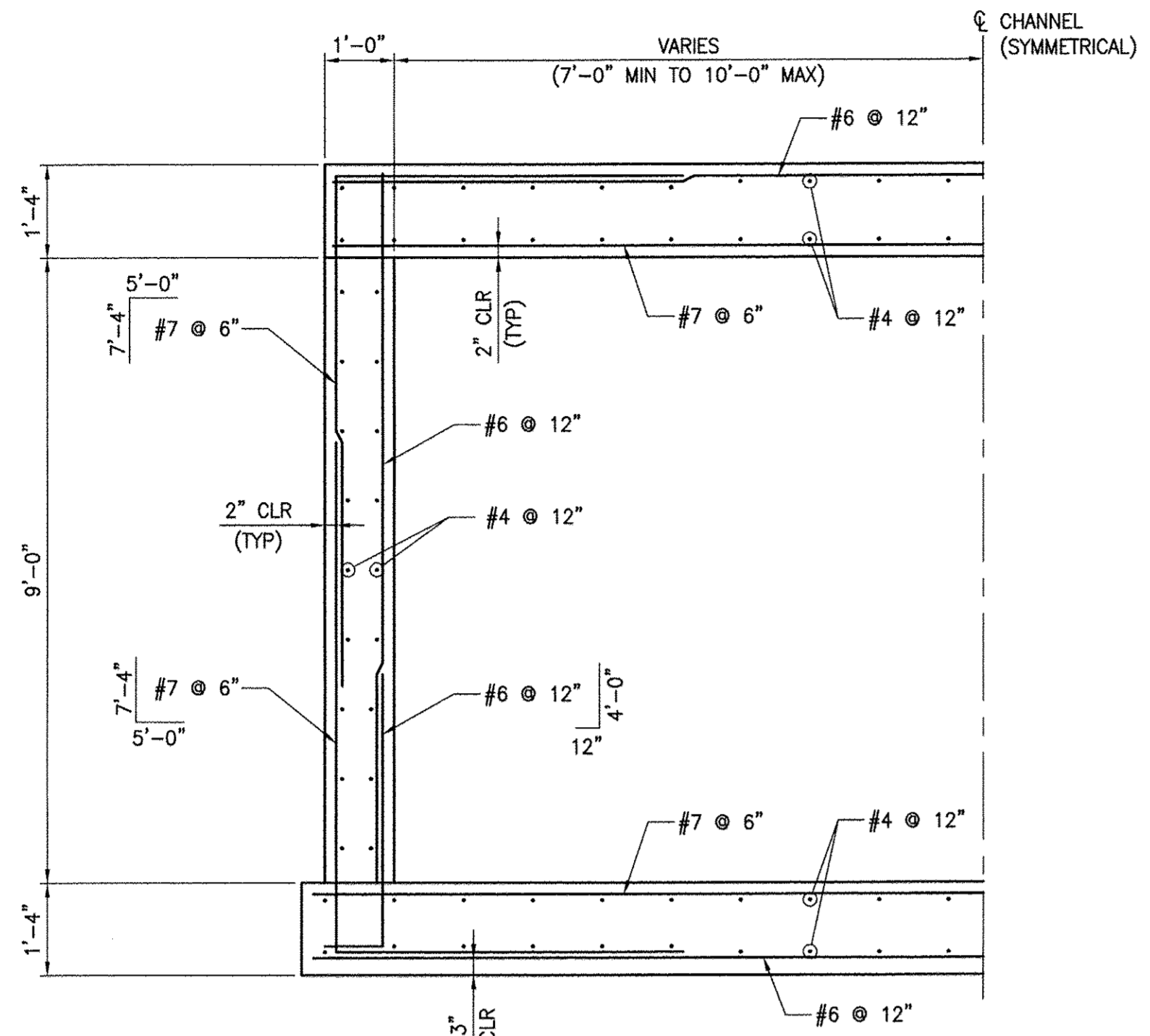
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GBWC INFLOW STRUCTURE AND ENERGY DISSIPATOR PLAN**  
 STA 735+00.88 TO STA 736+77.32  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



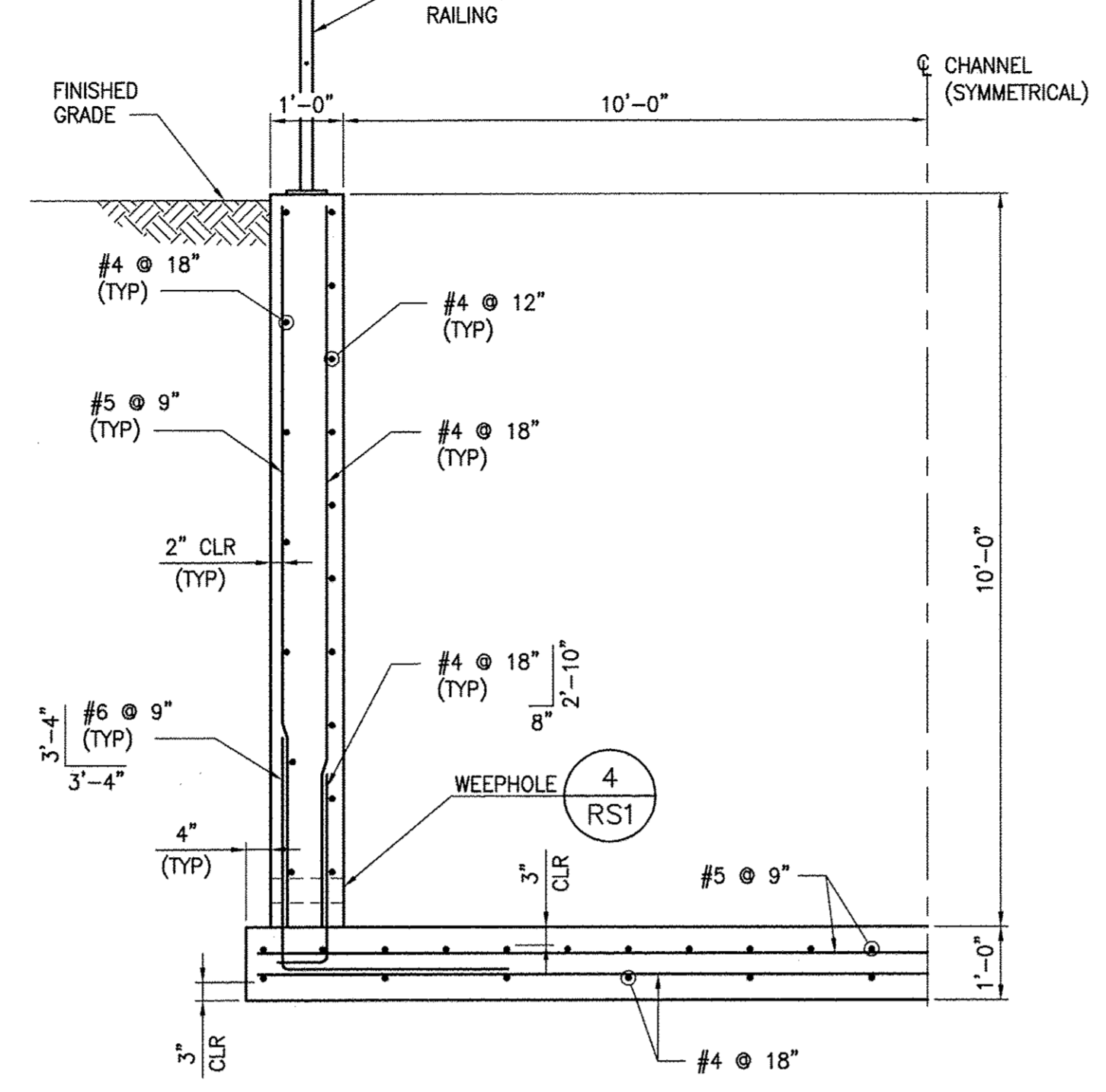
PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1535 S. RAINBOW BOULEVARD - LAS VEGAS NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	HORIZ: NONE	DRAWING NO.
VERT: NONE	FIELD BOOK	RS3
CCPW PROJECT #	W.O. #:	SHT. 571 OF 600
2008-62		

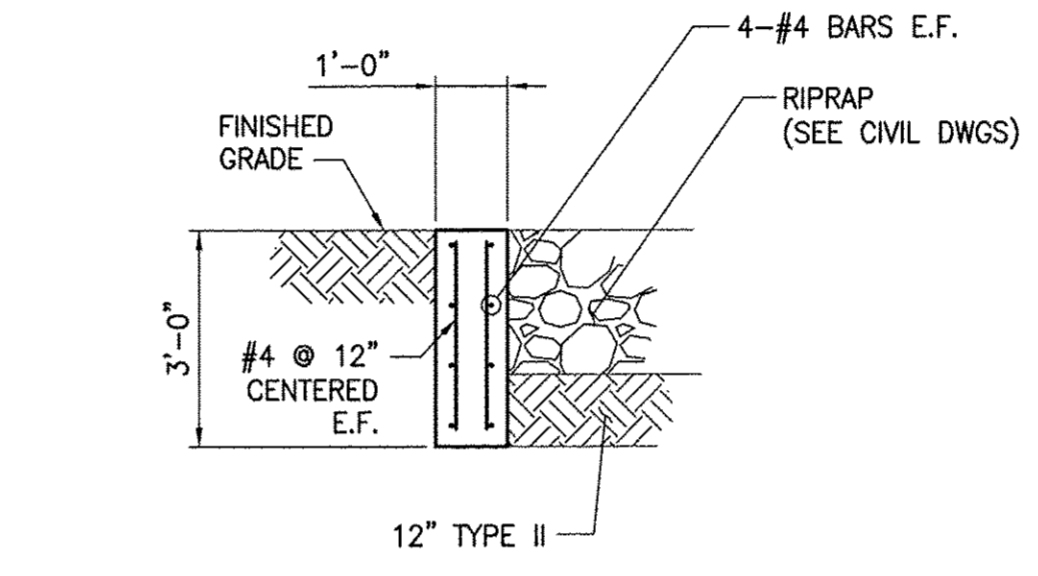
BID NO. 603576-15



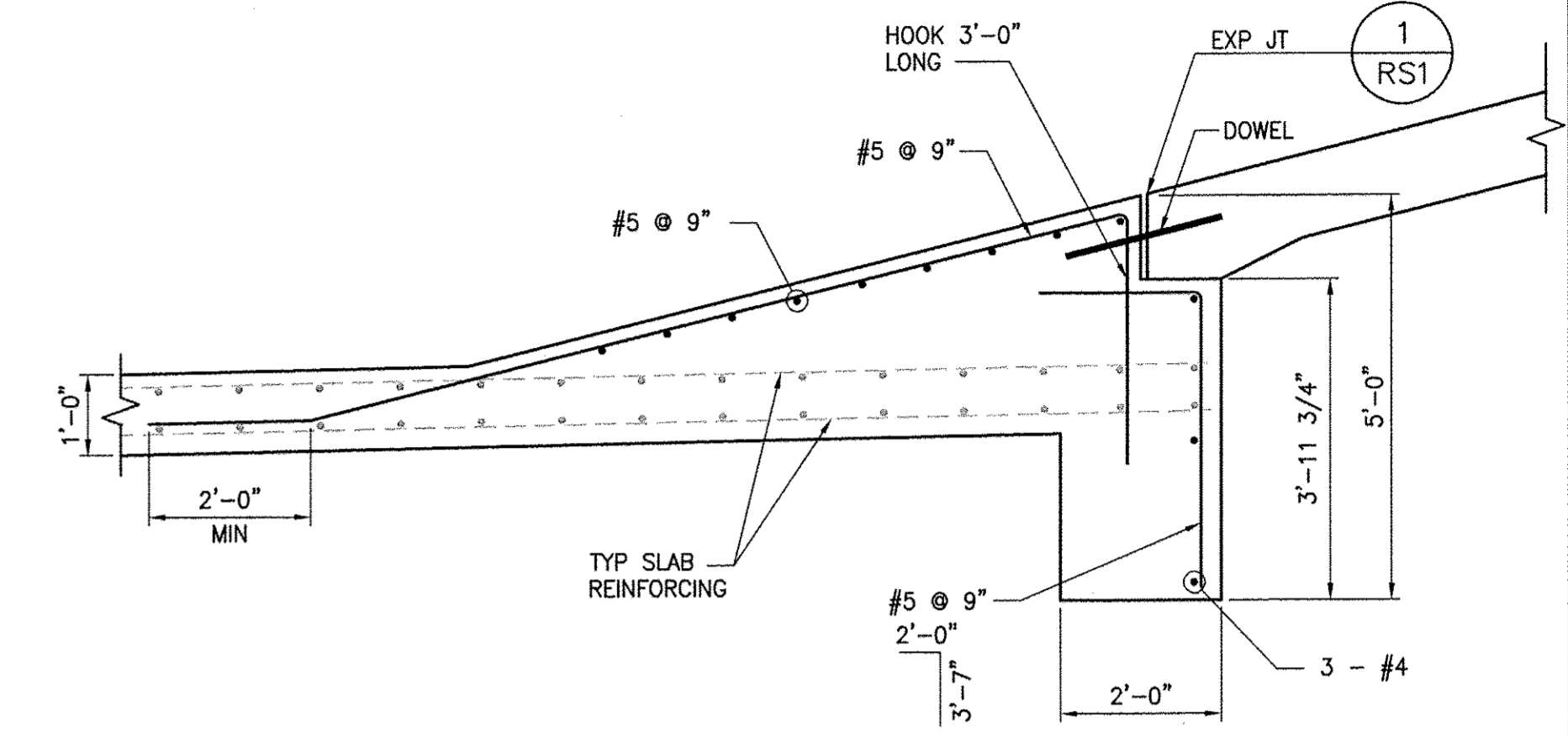
**E SECTION**  
SCALE: 1/2" = 1'-0"



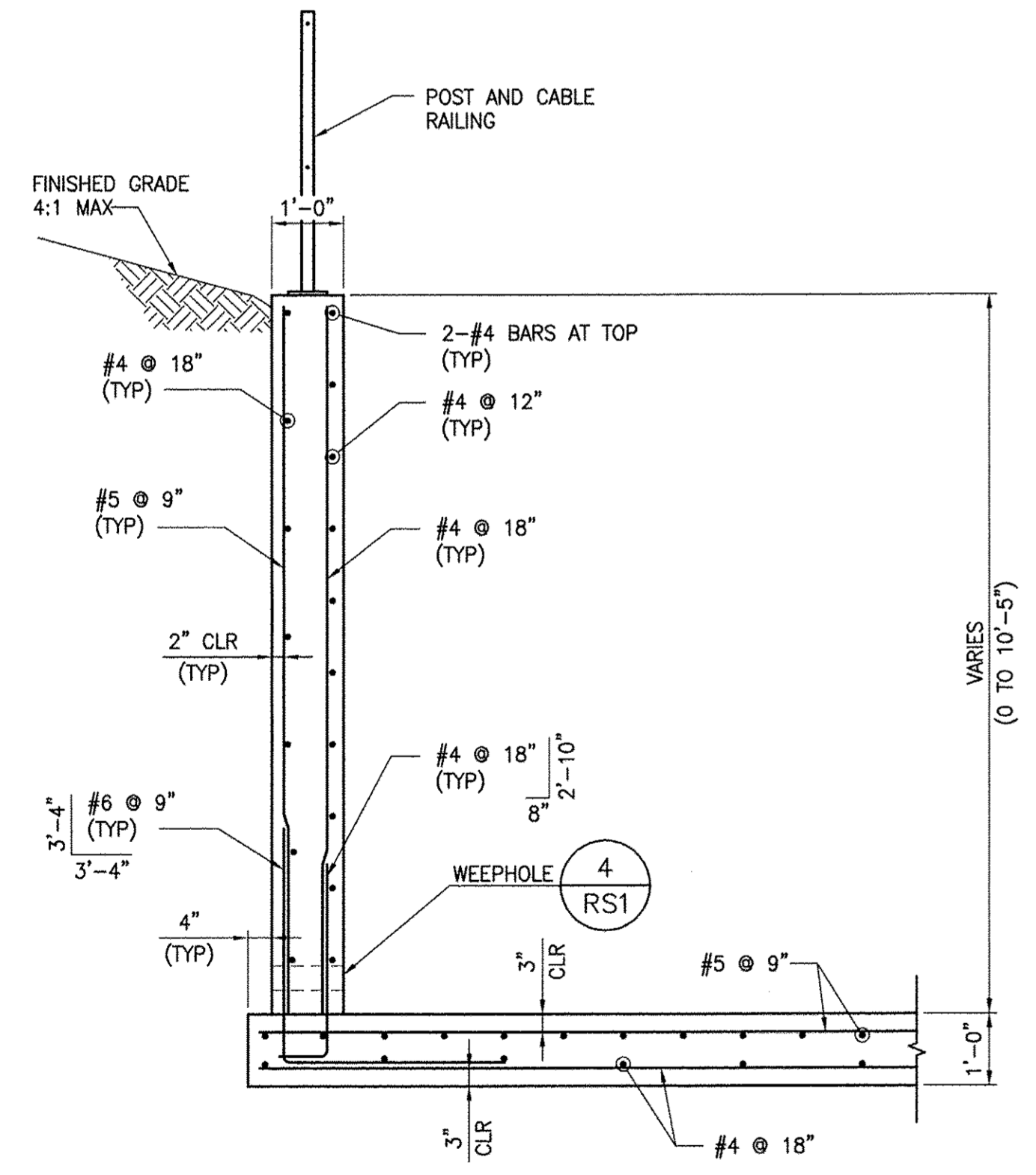
**C TYPICAL CHANNEL SECTION**  
SCALE: 1/2" = 1'-0"



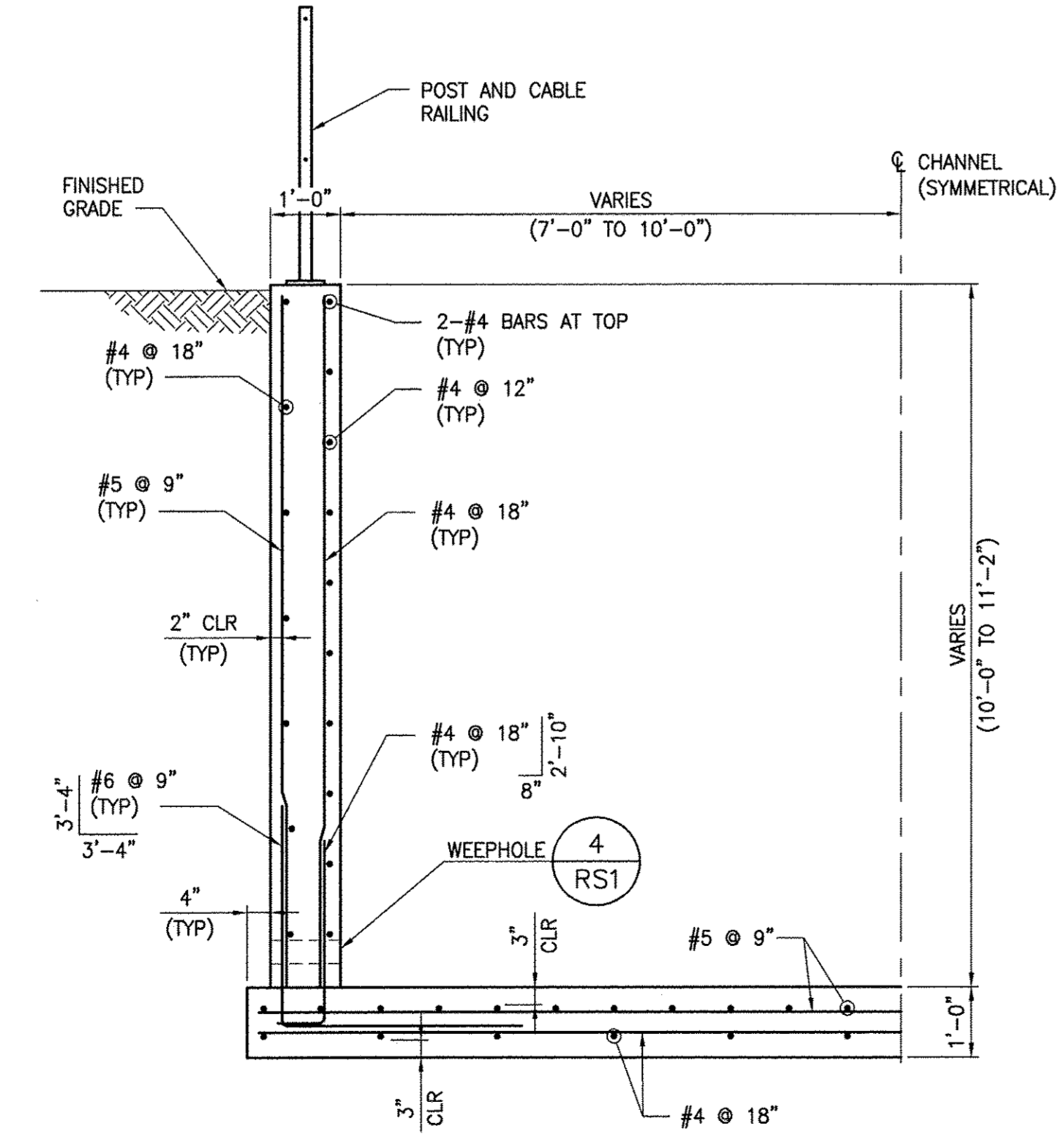
**A CUTOFF WALL SECTION**  
SCALE: 3/8" = 1'-0"



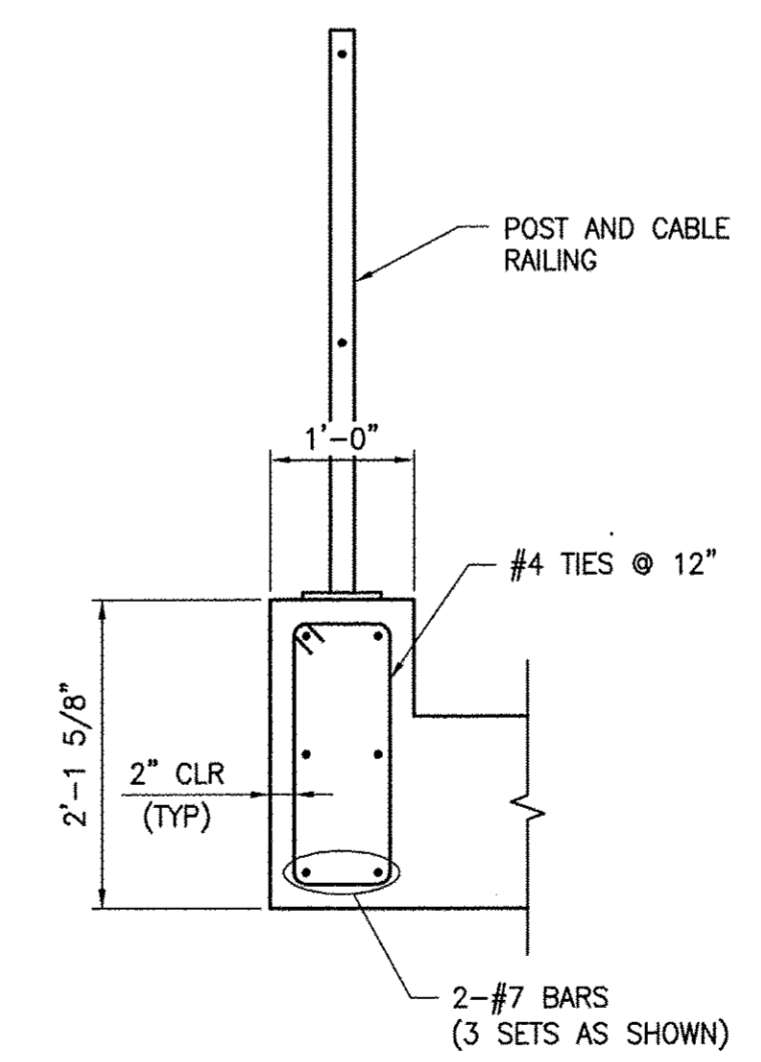
**3 DETAIL**  
SCALE: 1/2" = 1'-0"



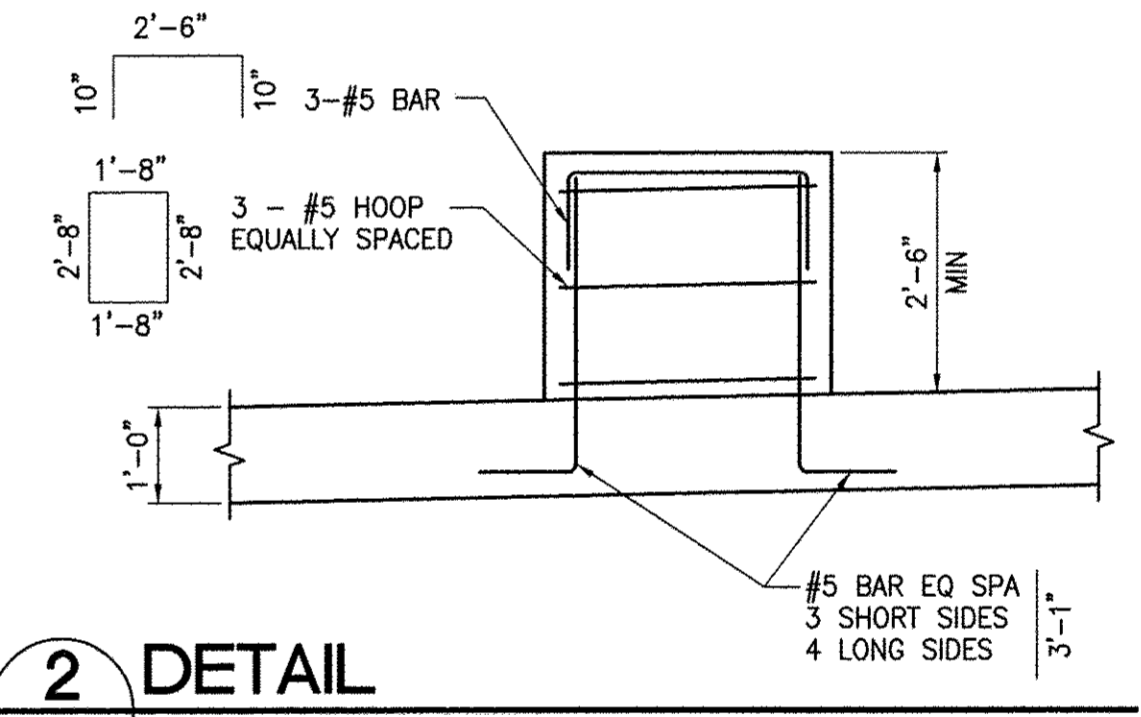
**D SECTION**  
SCALE: 1/2" = 1'-0"



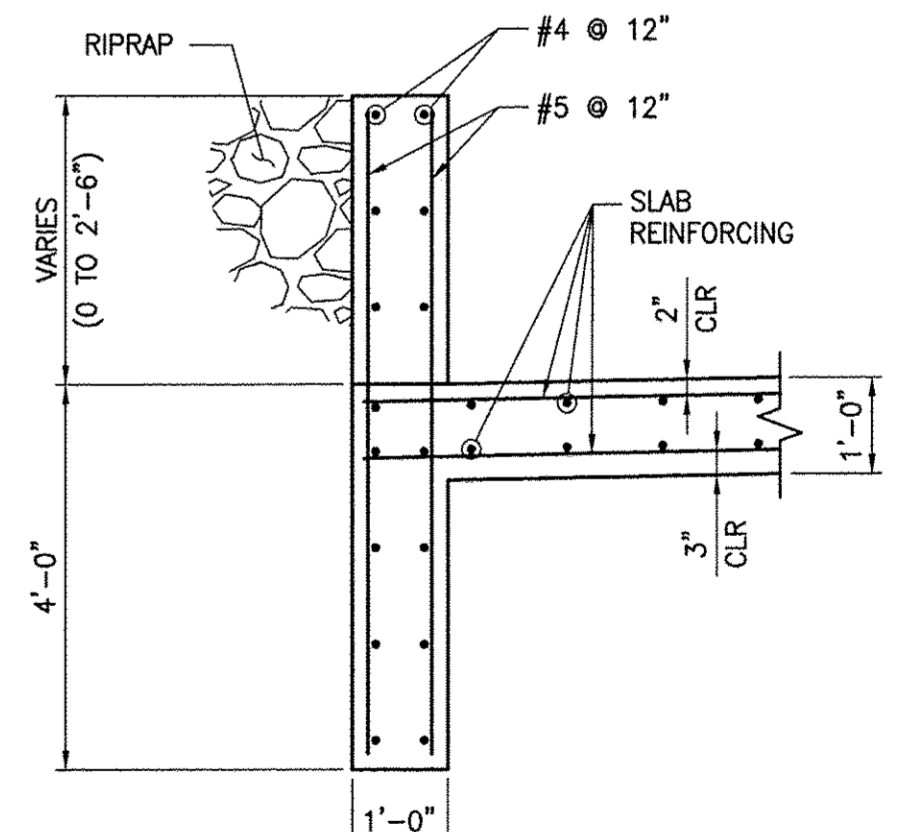
**B CHANNEL TRANSITION SECTION**  
SCALE: 1/2" = 1'-0"



**4 DETAIL**  
SCALE: 3/4" = 1'-0"

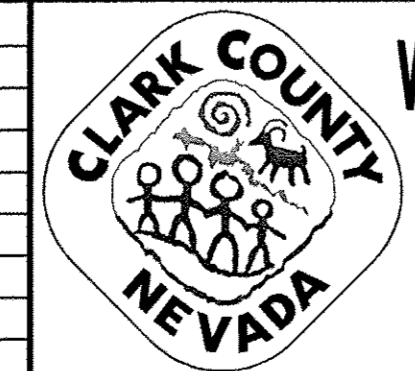


**2 DETAIL**  
SCALE: 1/2" = 1'-0"

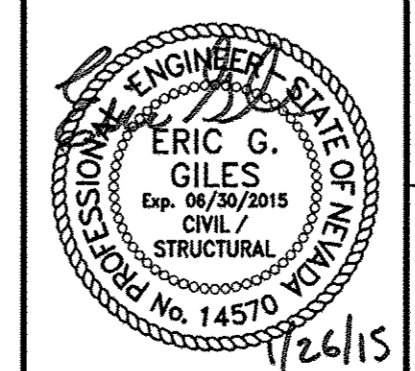


**1 DETAIL**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
CHANNEL TRANSITION SECTIONS AND DETAILS  
"GBWC" LINE STA 735+00.88 TO STA 737+01.88  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

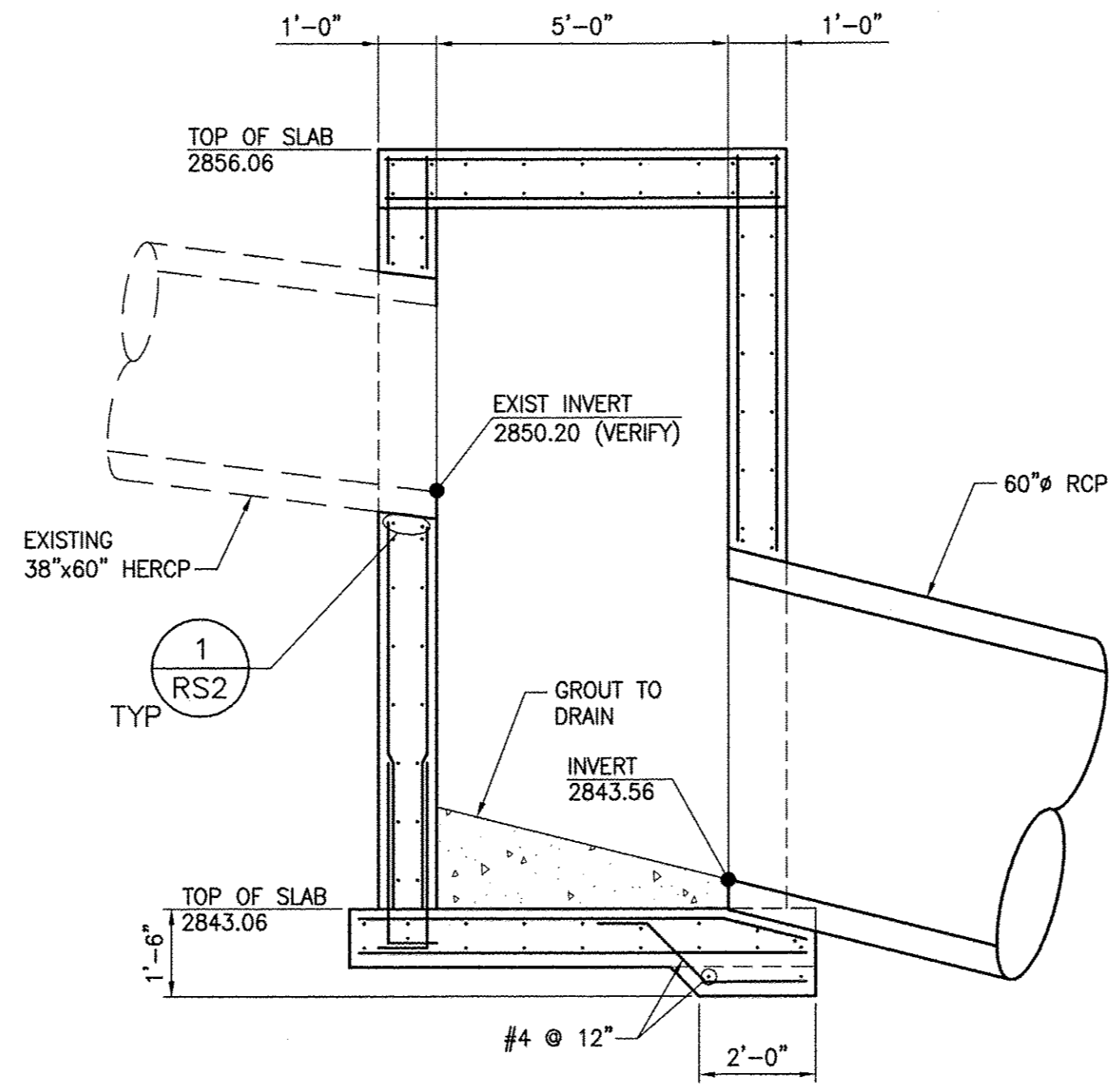


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G.C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD • LAS VEGAS, NV 89146  
P: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

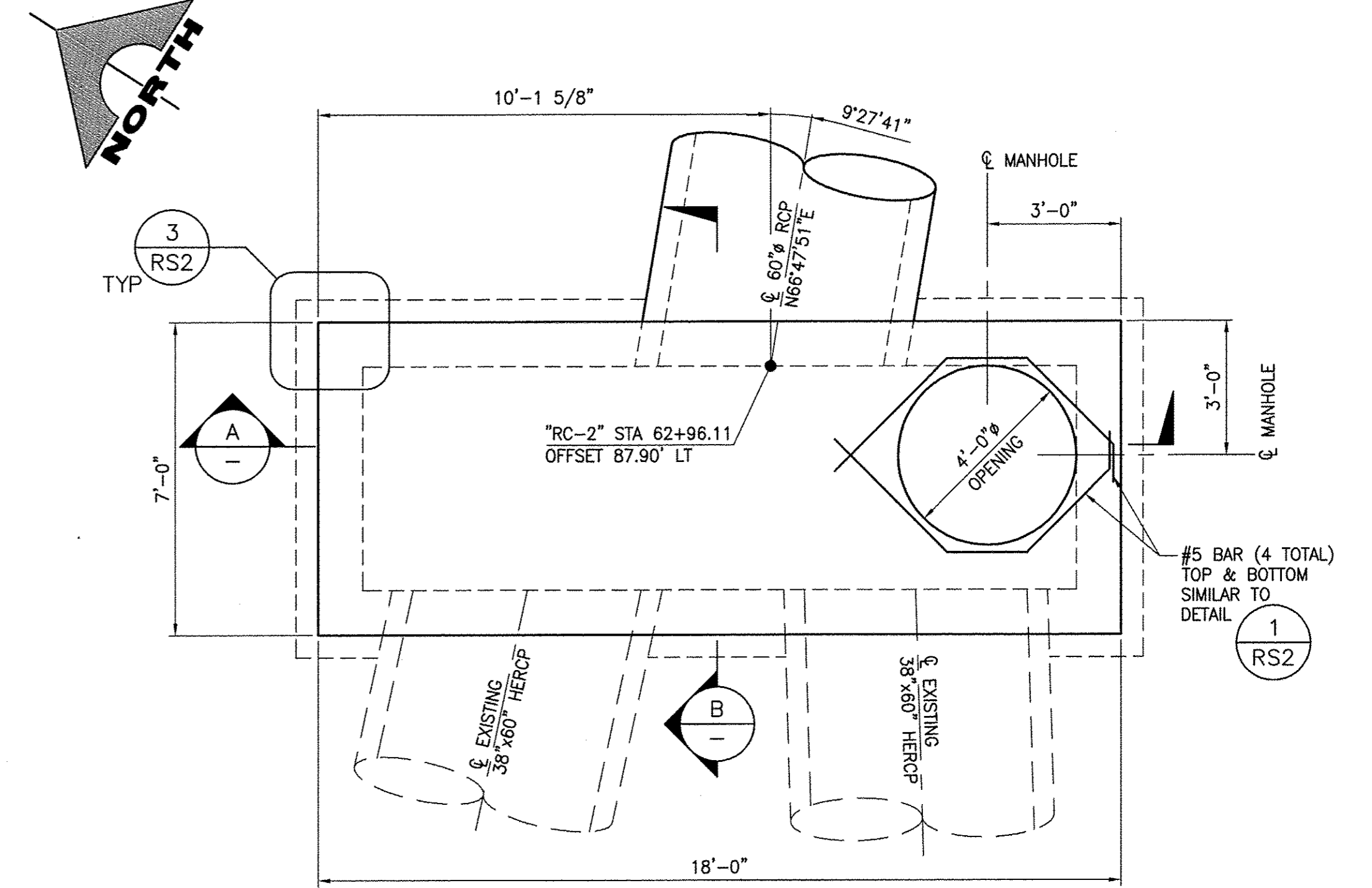
SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS4	
SHT. 572	OF 600

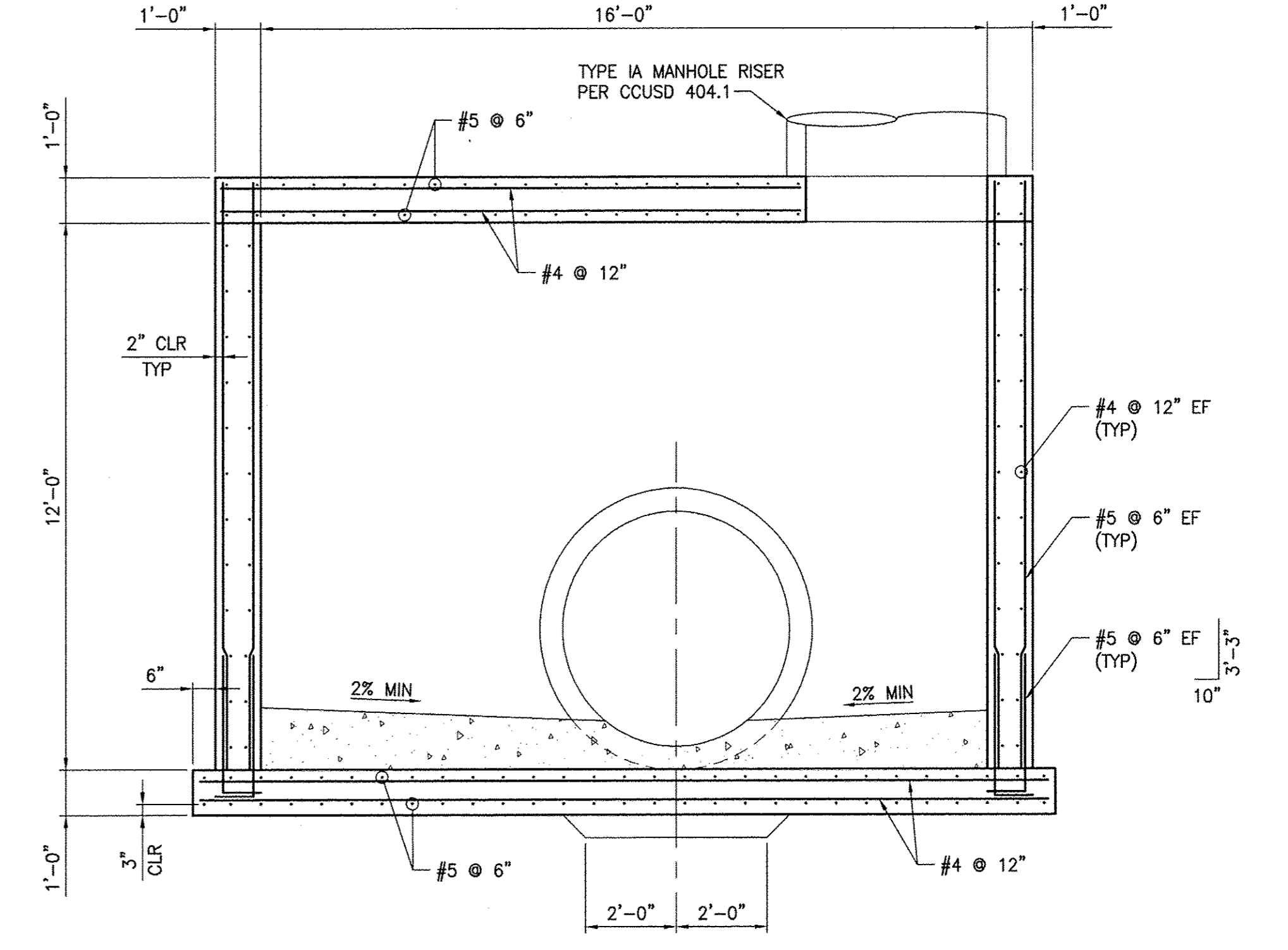
BID NO. 603576-15



**B SECTION**  
SCALE: 3/8" = 1'-0"

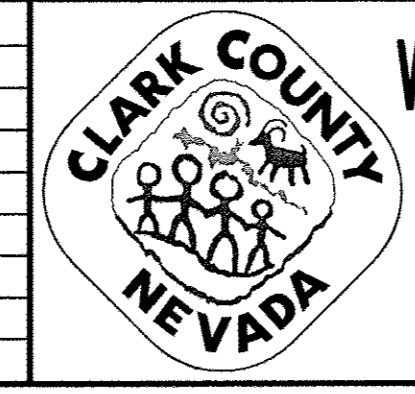


**1 PLAN - SDMH "RC-2" 62+96.11**  
SCALE: 3/8" = 1'-0" REF DWG: RSD48



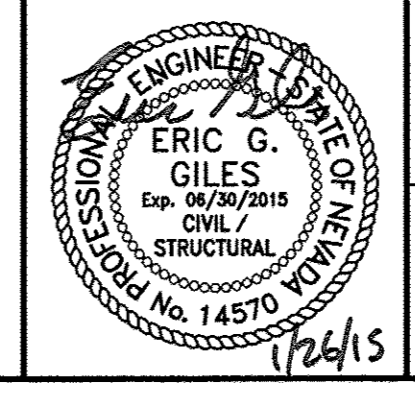
**A SECTION**  
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
SPECIAL MANHOLE STRUCTURE**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

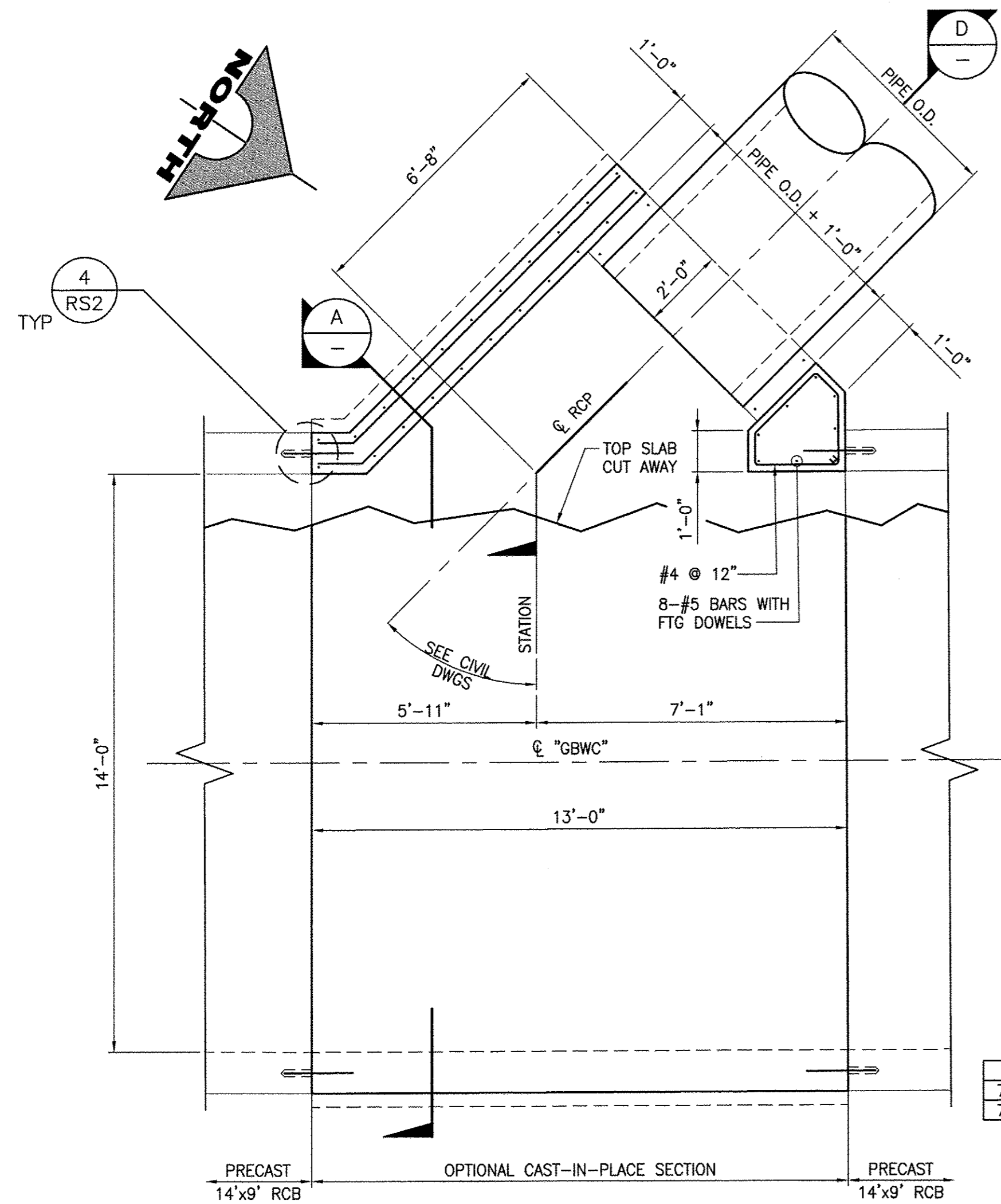


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS NV 89146  
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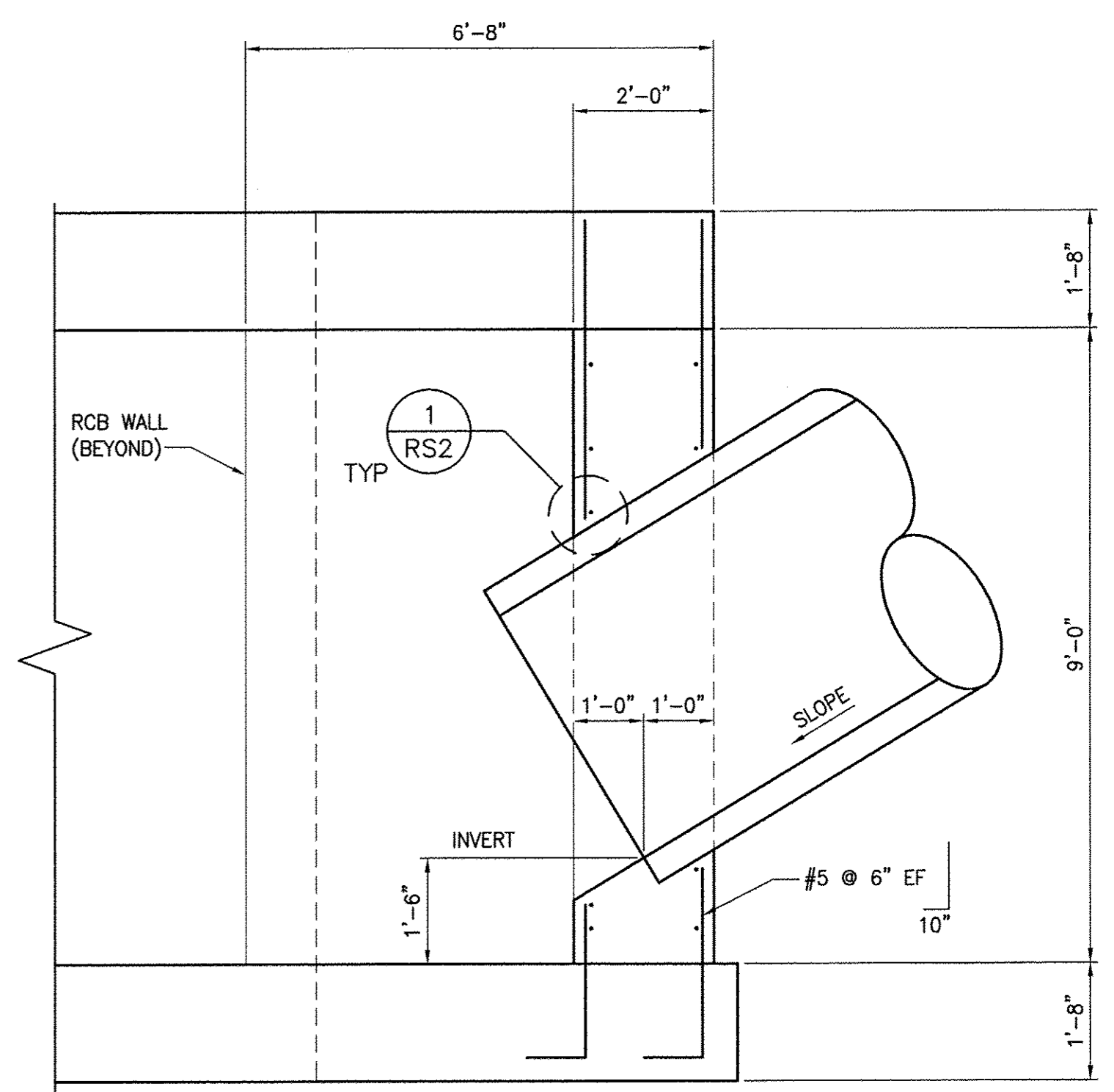
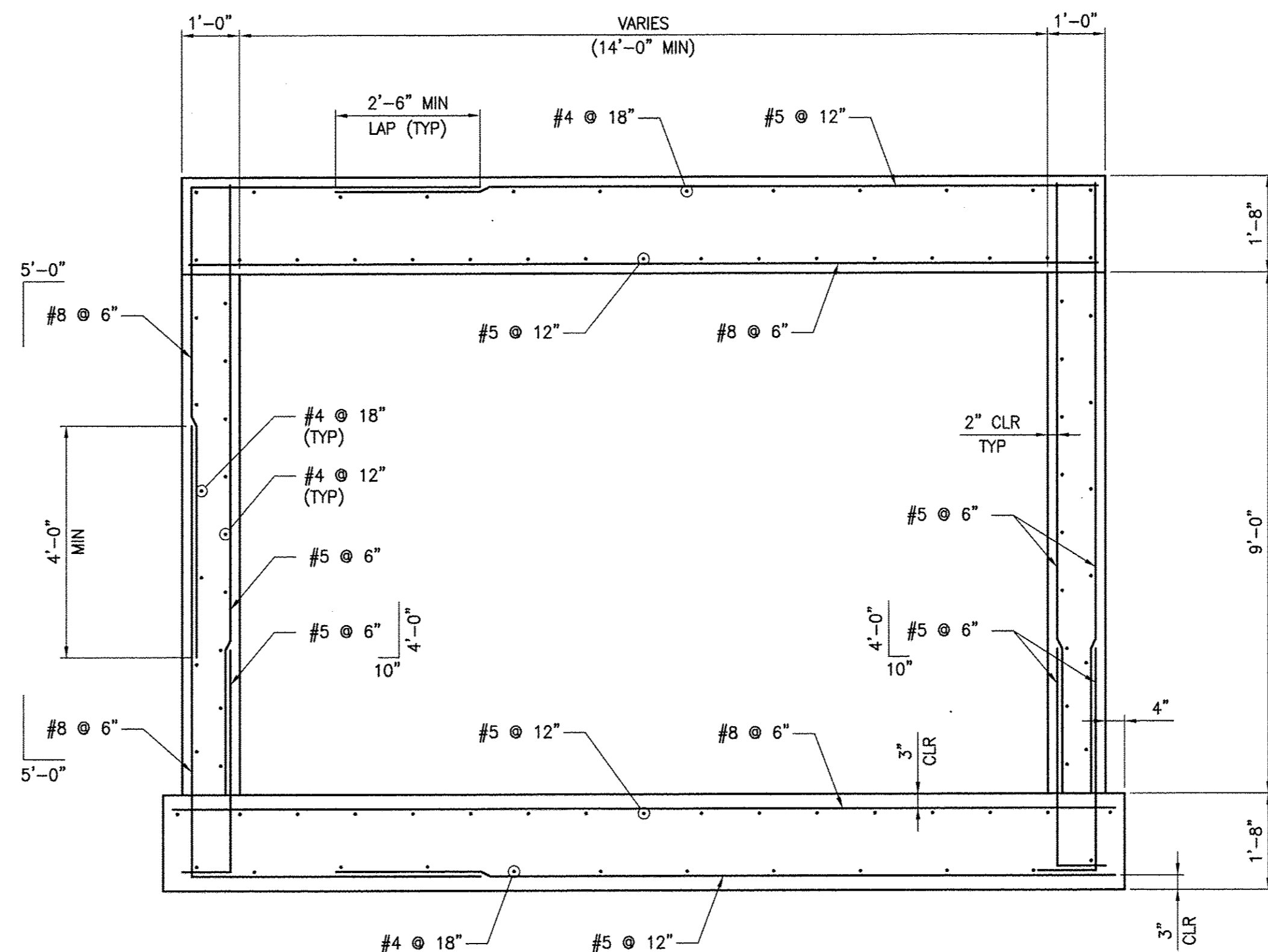
SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	RS5
SHT. 573 OF 600	

BID NO. 603576-15



STA	S	INVERT	RCP SIZE
744+65.50	78.56%	2750.83	36"
752+64.94	45.68%	2773.95	36"

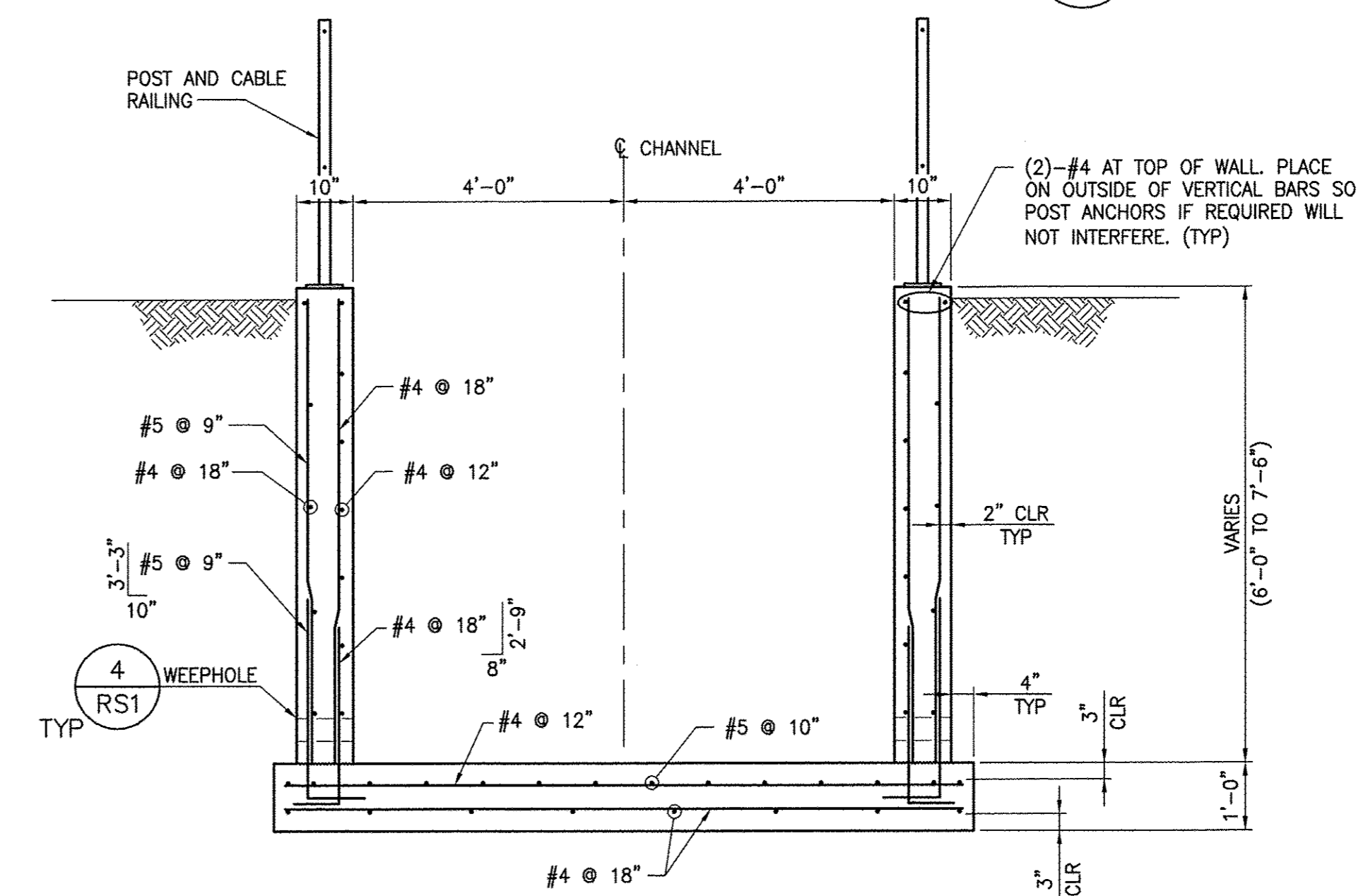


1 PLAN - RCB PIPE PENETRATION  
SCALE: 3/8" = 1'-0" REF DWG: RSD41, RSD42

A 14' x 9' JUNCTION BOX  
SCALE: 1/2" = 1'-0"

D SECTION  
SCALE: 1/2" = 1'-0"

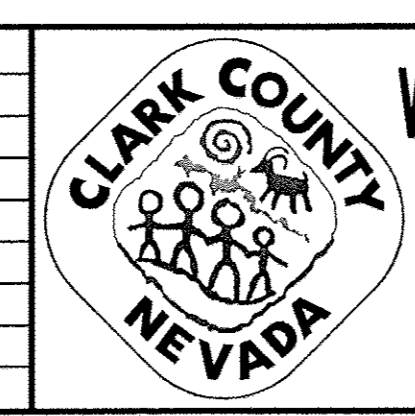
C NOT USED  
SCALE: NONE



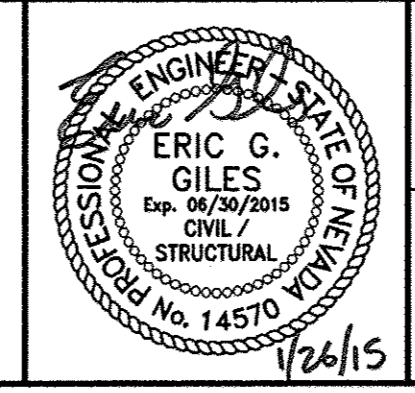
NOTE:  
1. REFER TO GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS ON DRAWING RS1 FOR CUT-OFF WALL, EXPANSION JOINT, WEAKENED PLANE JOINT, AND CONSTRUCTION JOINT DETAILS AND SPACING.  
2. USE SAME WALL THICKNESS AND REINFORCING SHOWN ABOVE FOR END WALL AT STA 76+04.54.

B RC-2 8-FOOT WIDE CONCRETE RECTANGULAR CHANNEL  
SCALE: 1/2" = 1'-0" REF DWG: RSD57

REV. NO.	DATE	DESCRIPTION	APPROVED



WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
TYPICAL PIPE PENETRATION STRUCTURES AND CHANNEL SECTION  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

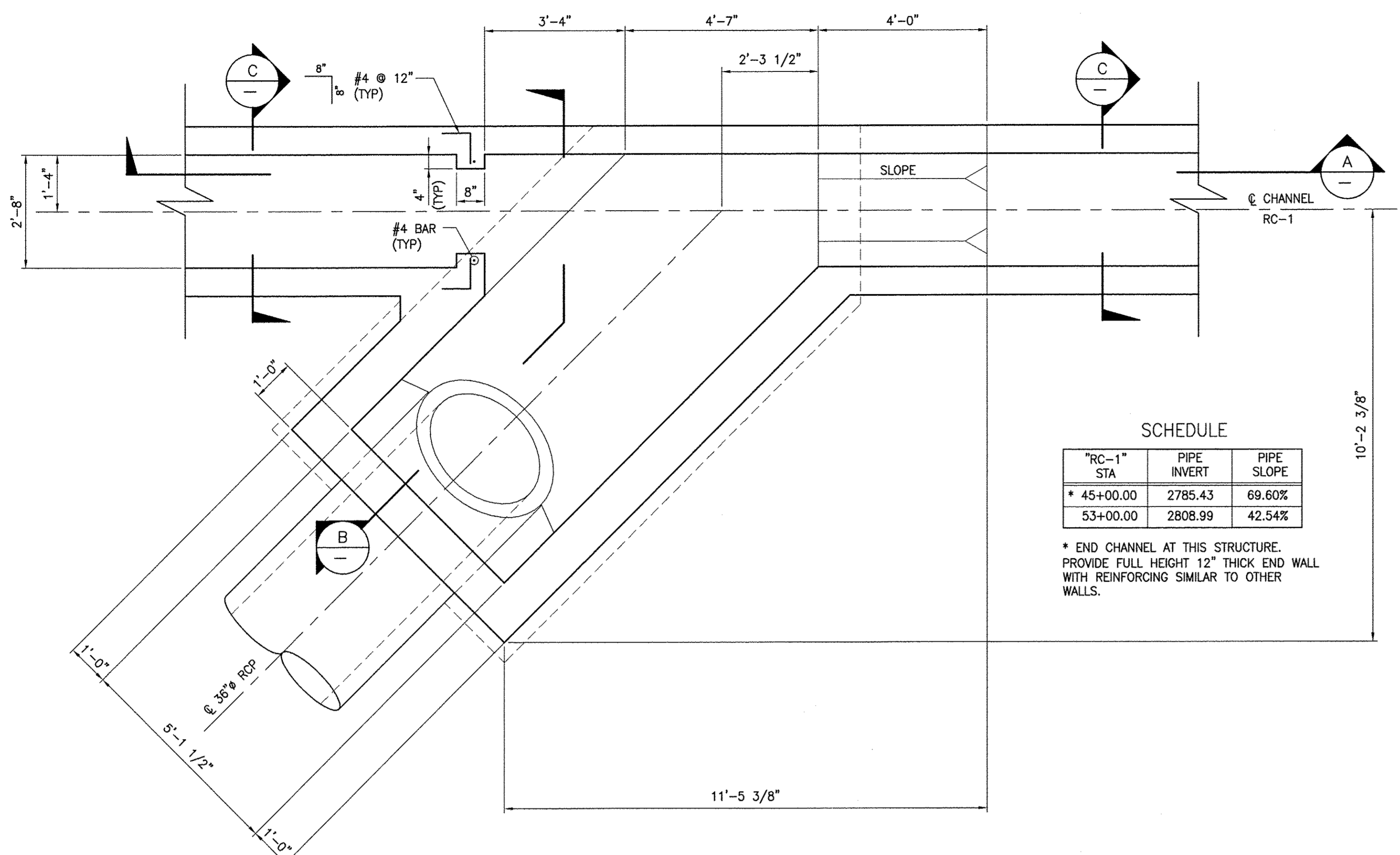


PROJECT No: 451.002 DRAWN BY: FAM  
DESIGNED BY: FAM CHECKED BY: FEV  
APPROVED BY: FEV  
G. C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
	RS6
SHT. 574	OF 600

BID NO. 603576-15



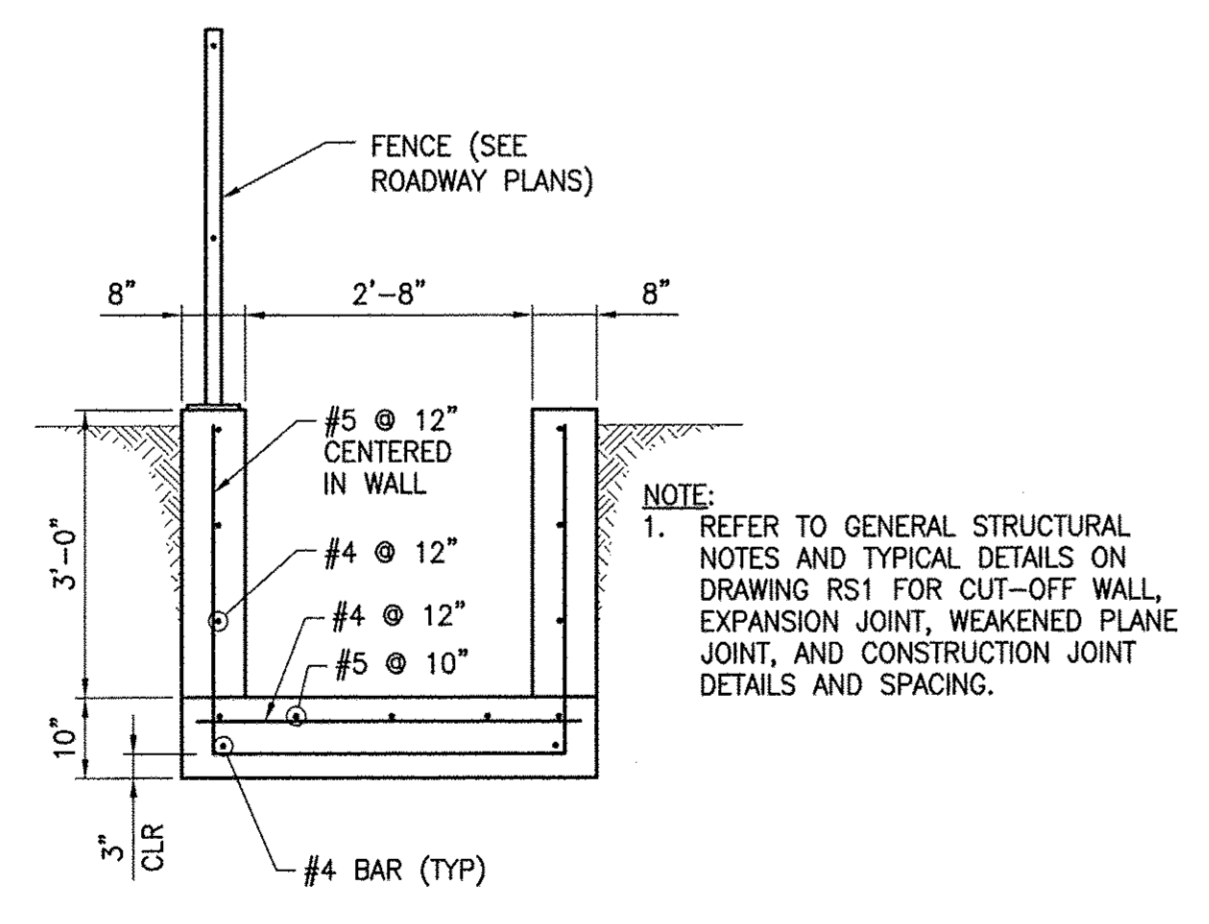
SCHEDULE

"RC-1" STA	PIPE INVERT	PIPE SLOPE
* 45+00.00	2785.43	69.60%
53+00.00	2808.99	42.54%

\* END CHANNEL AT THIS STRUCTURE. PROVIDE FULL HEIGHT 12" THICK END WALL WITH REINFORCING SIMILAR TO OTHER WALLS.

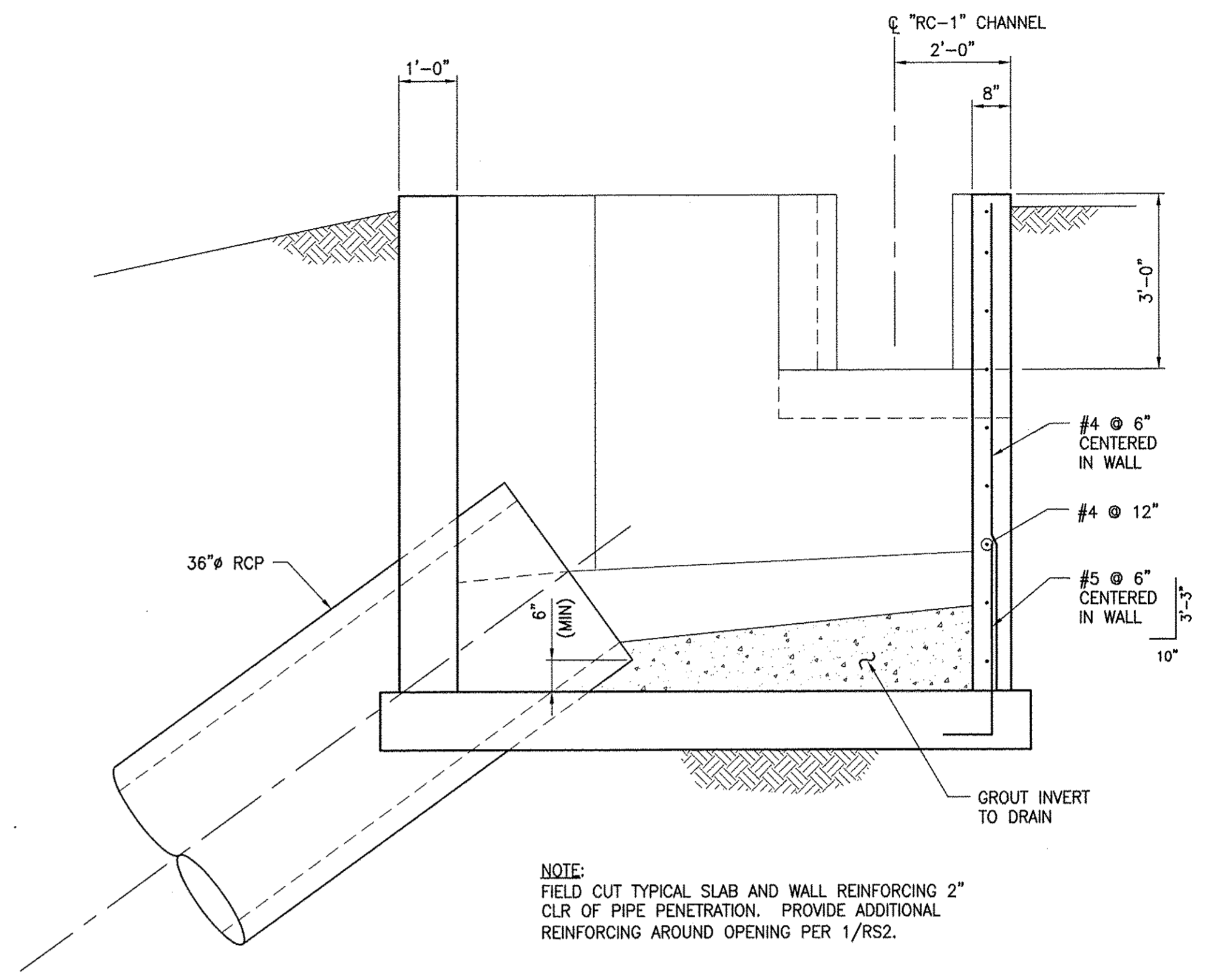
**1 PLAN - 36 INCH PIPE JUNCTION**  
SCALE: 1/2" = 1'-0"

REF DWG: RSD41, RSD42



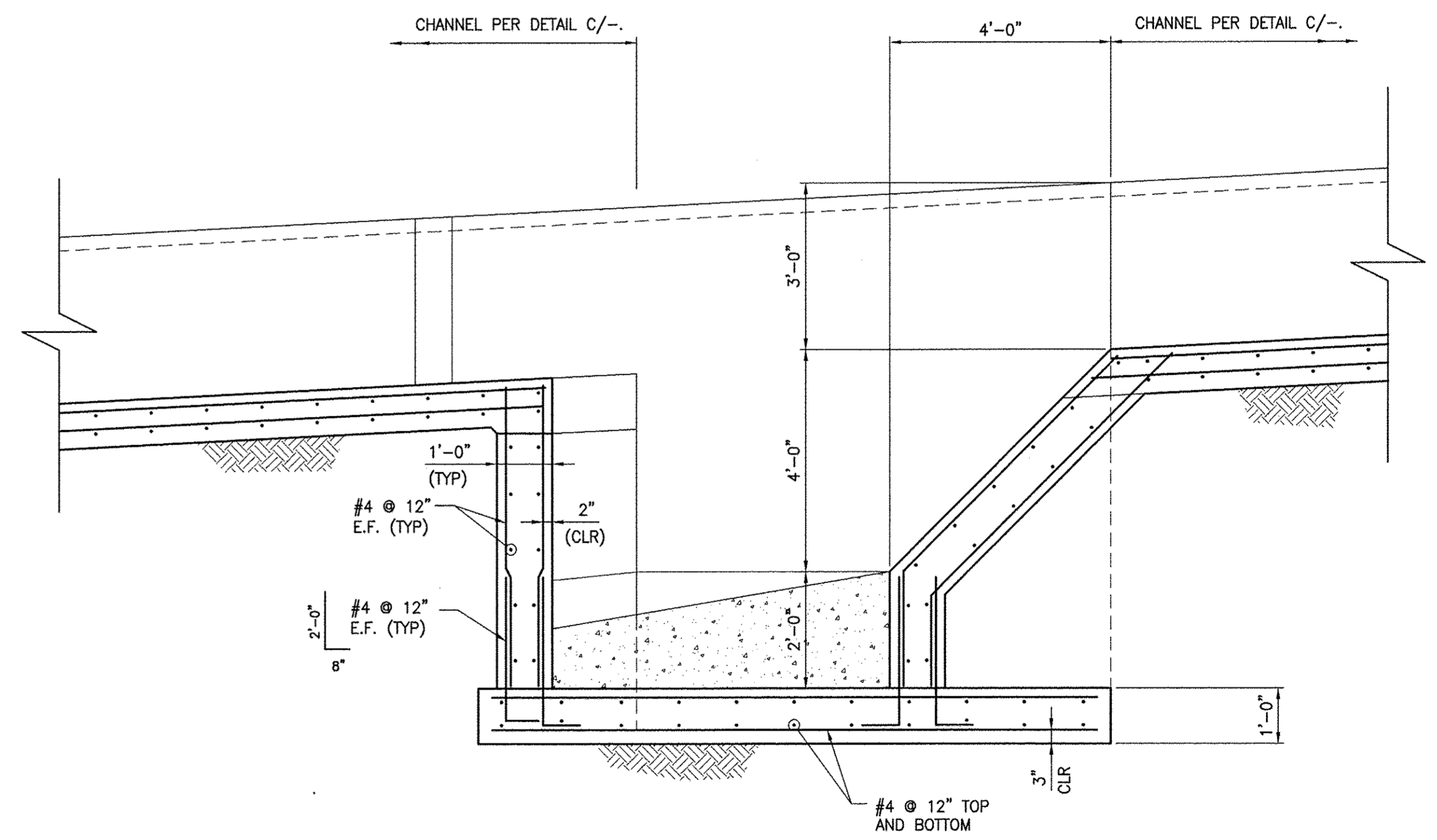
NOTE:  
1. REFER TO GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS ON DRAWING RS1 FOR CUT-OFF WALL, EXPANSION JOINT, WEAKENED PLANE JOINT, AND CONSTRUCTION JOINT DETAILS AND SPACING.

**C CHANNEL SECTION**  
SCALE: 1/2" = 1'-0"



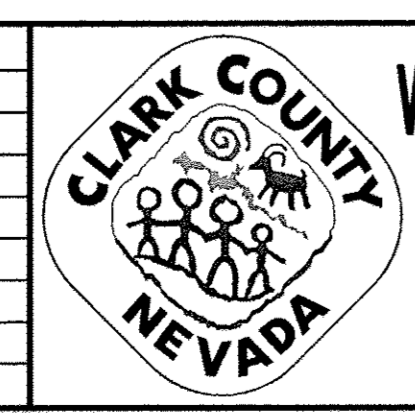
NOTE:  
FIELD CUT TYPICAL SLAB AND WALL REINFORCING 2" CLR OF PIPE PENETRATION. PROVIDE ADDITIONAL REINFORCING AROUND OPENING PER 1/RS2.

**B SECTION**  
SCALE: 1/2" = 1'-0"



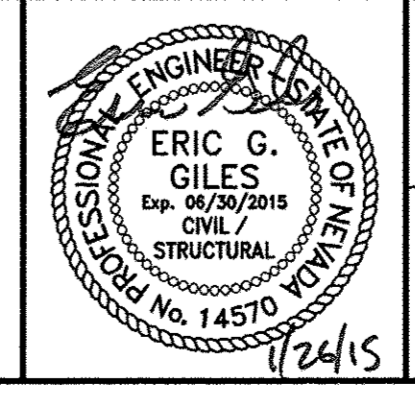
**A SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
RC-1 JUNCTION STRUCTURE AND U-CHANNEL

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

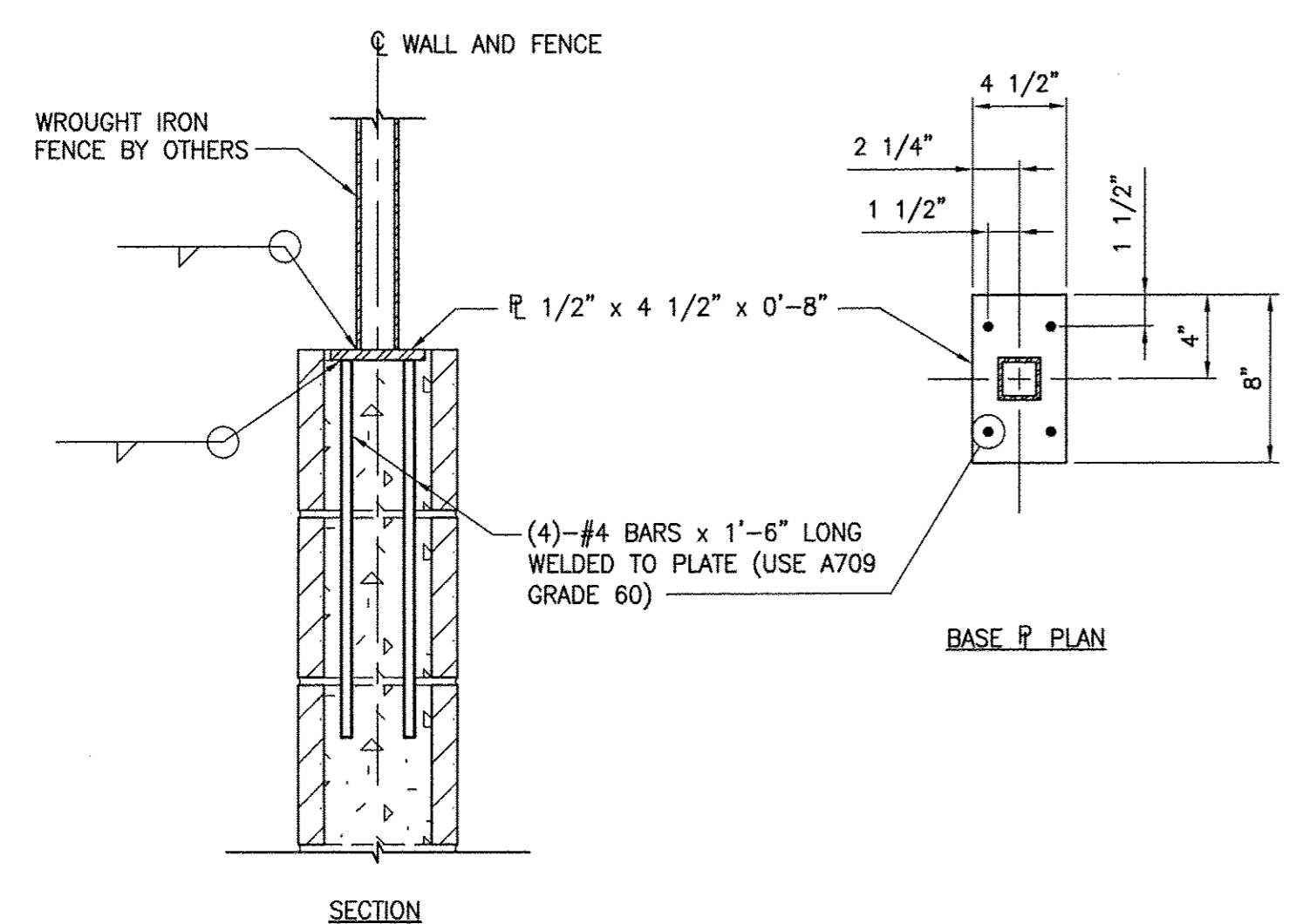


PROJECT No: 451.002.001 DRAWN BY: FAM  
DESIGNED BY: FAM CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

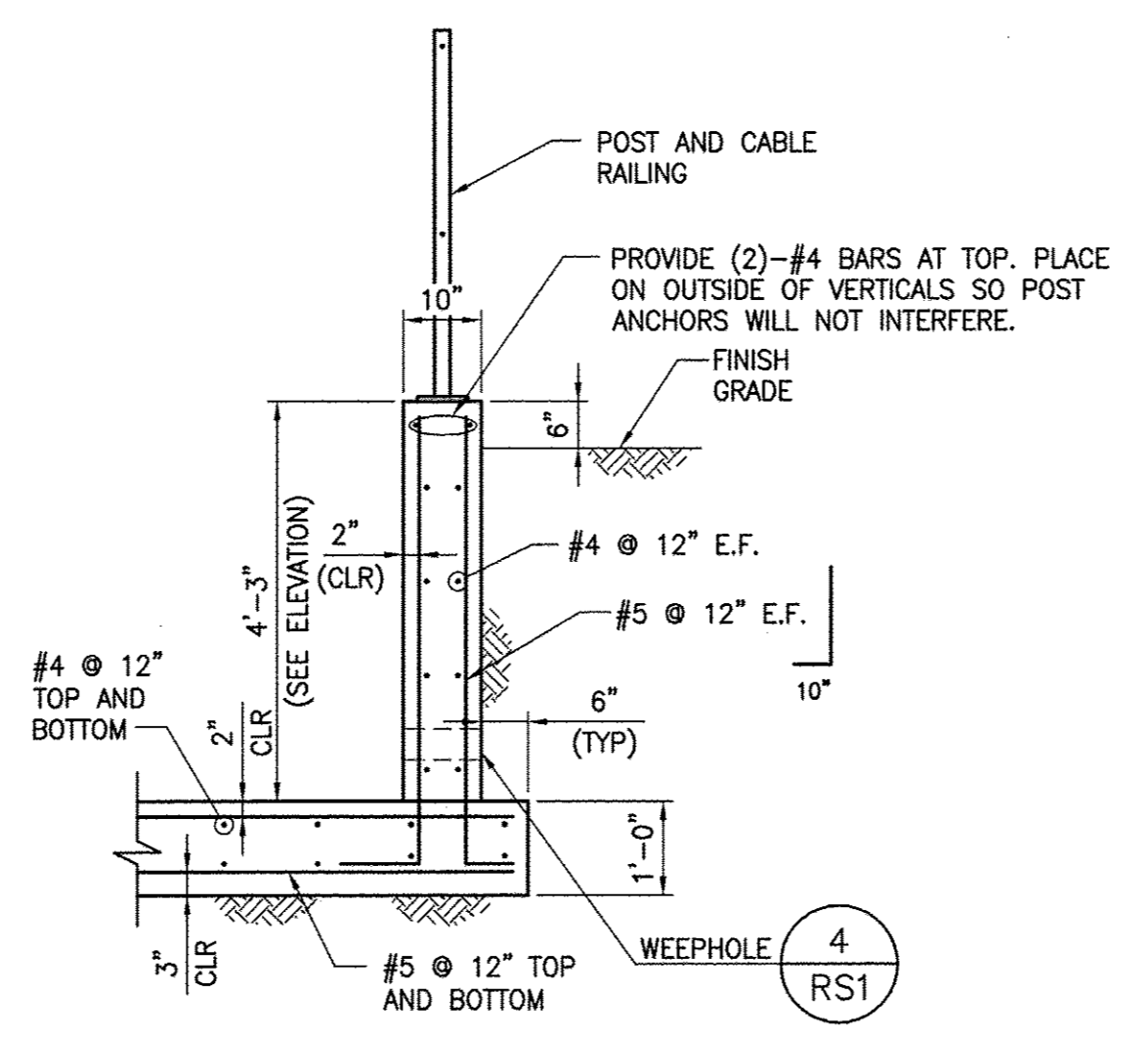
SCALE	
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VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS7	
SHT. 575	OF 600

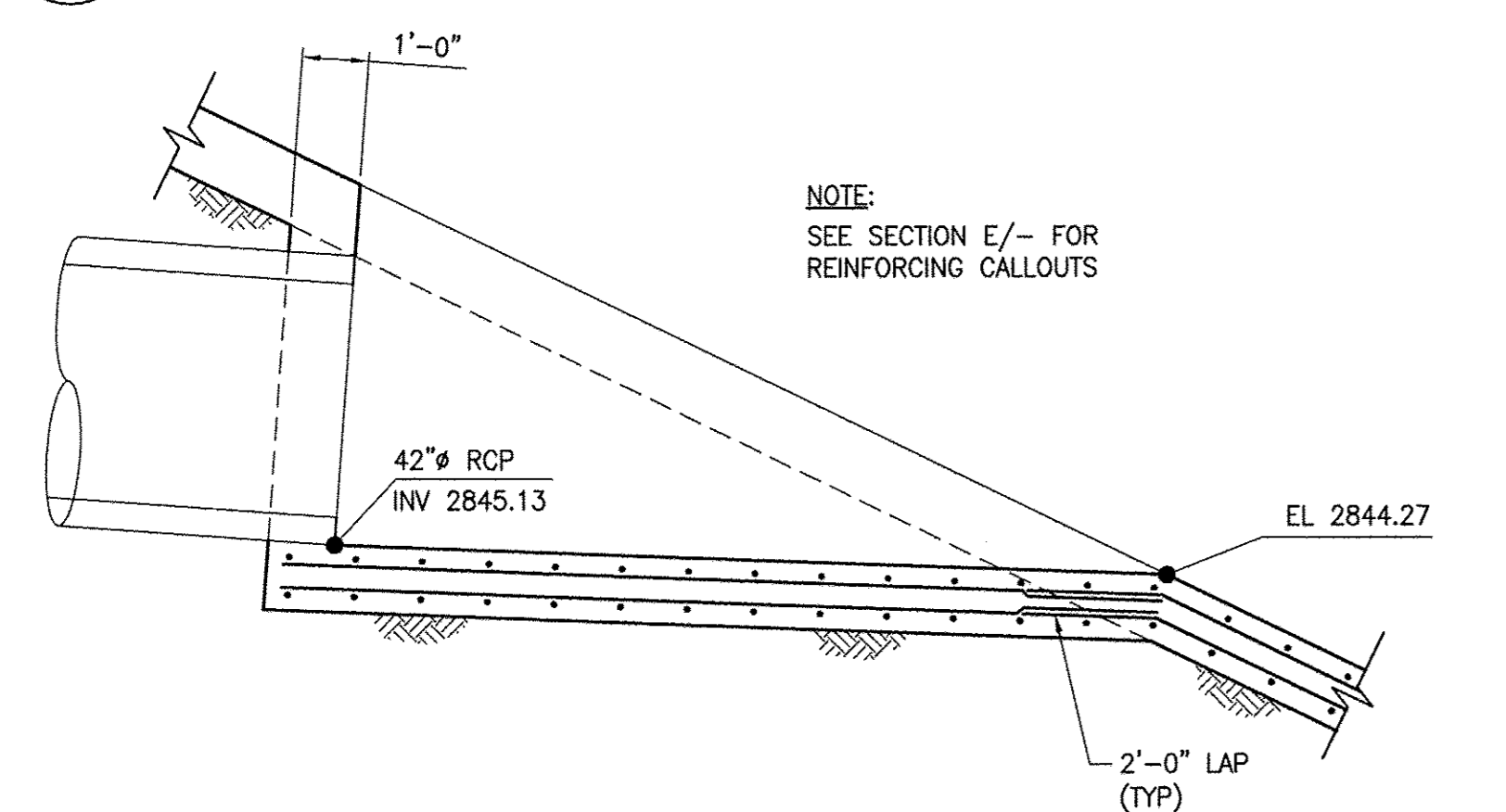
BD NO. 603576-15



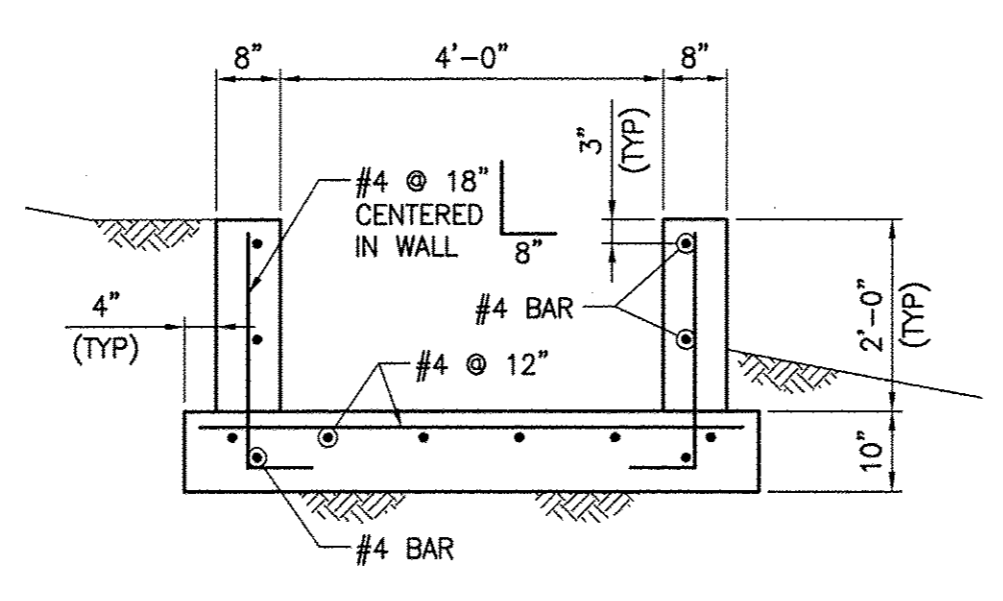
**2 FENCE CONNECTION DETAIL**  
SCALE: NTS



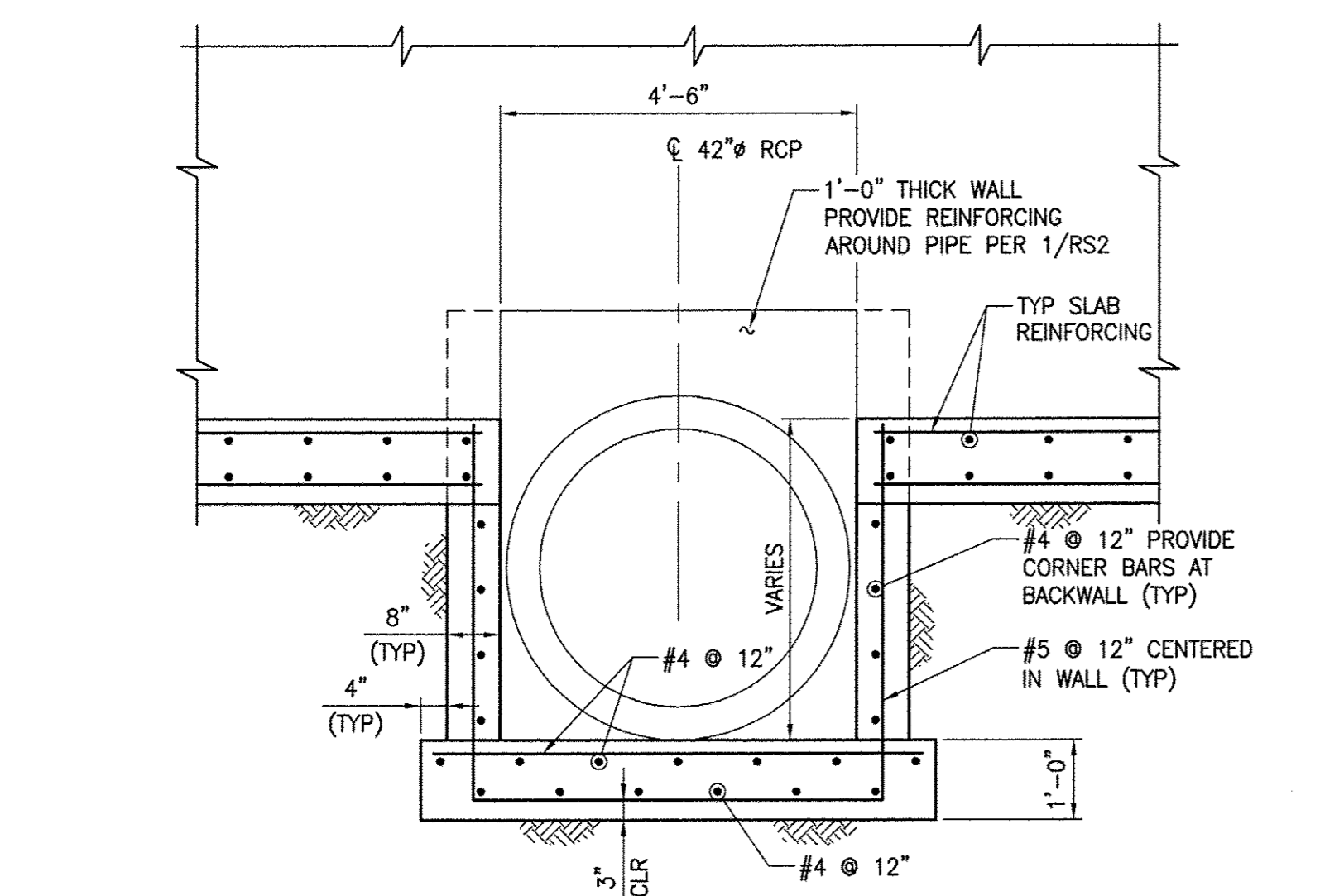
**D SECTION**  
SCALE: 1/2"=1'-0"



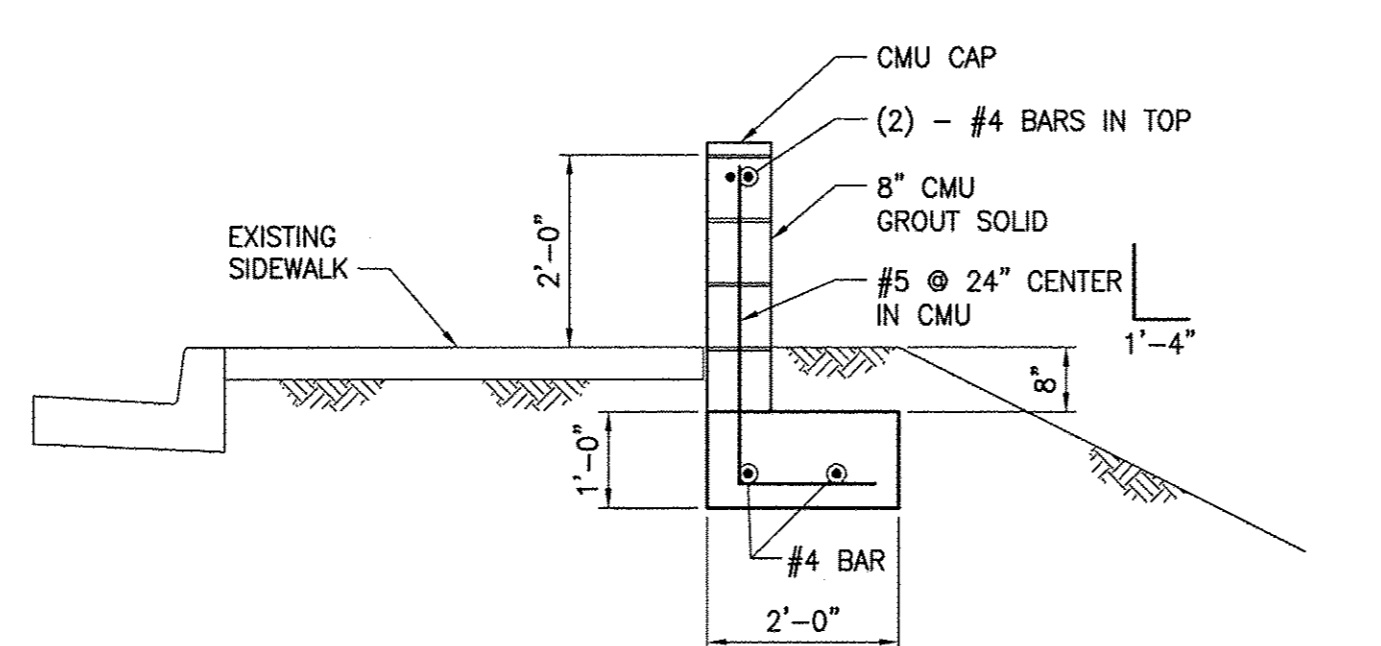
**F SECTION**  
SCALE: 3/8"=1'-0"



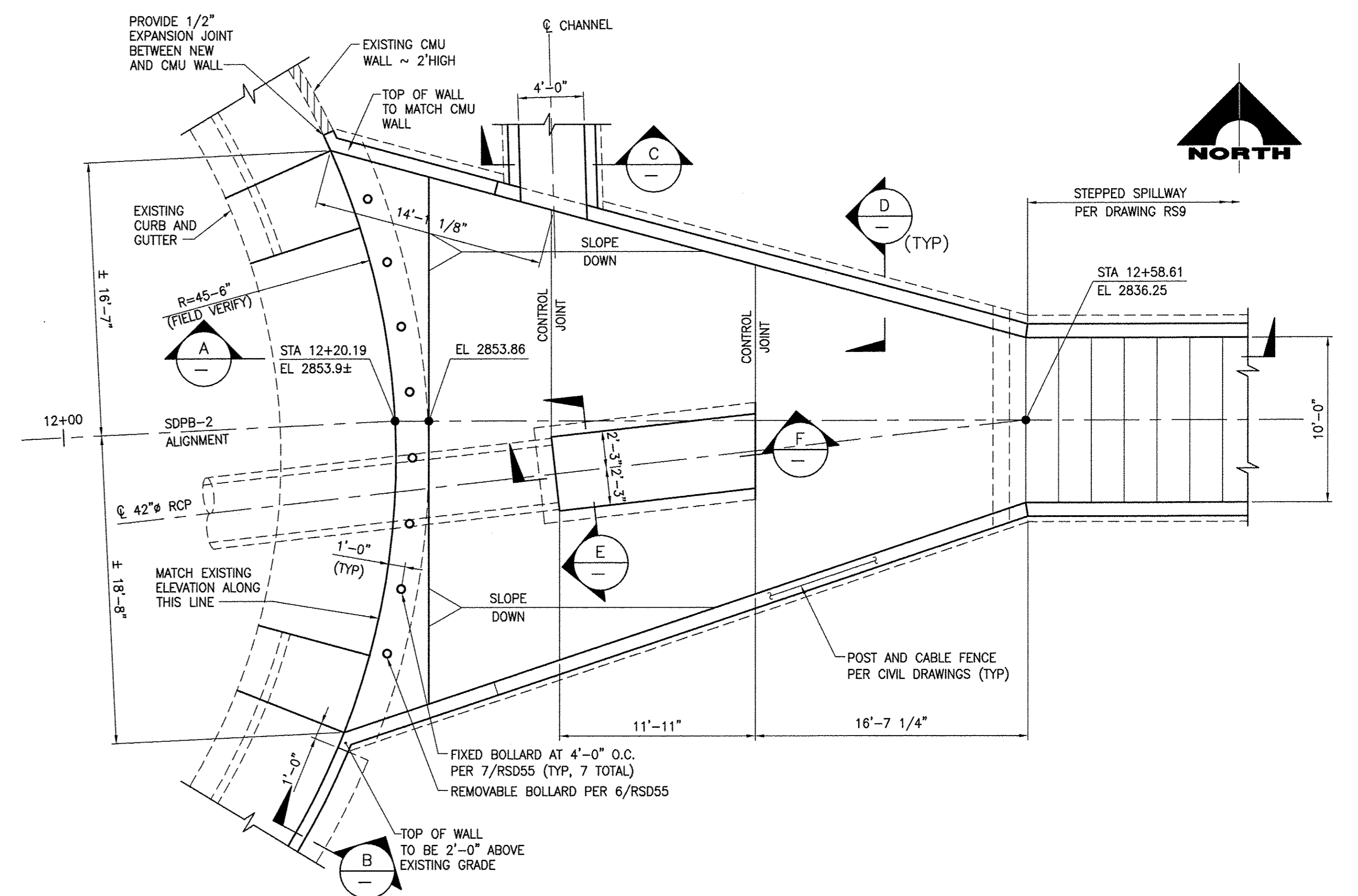
**C SECTION**  
SCALE: 1/2"=1'-0"



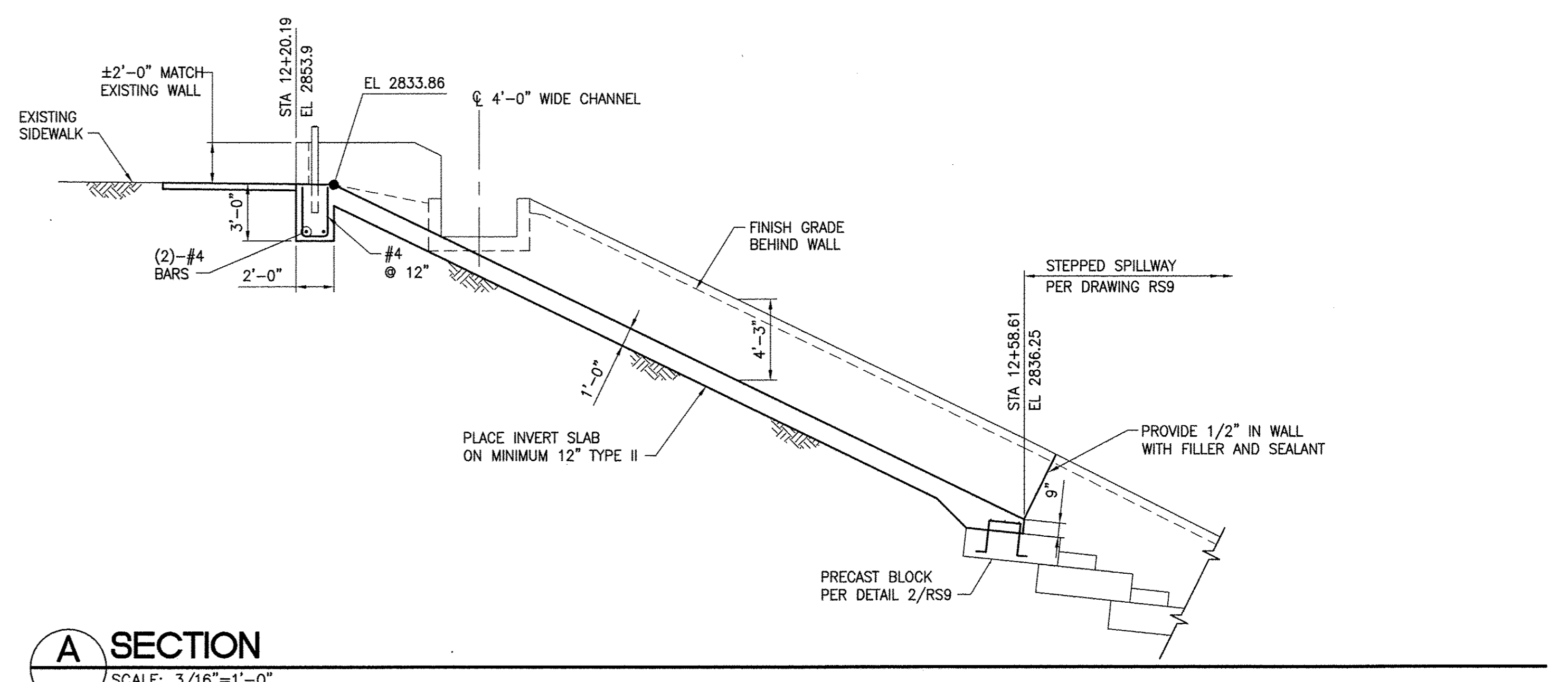
**E SECTION**  
SCALE: 1/2"=1'-0"



**B SECTION**  
SCALE: 1/2"=1'-0"



**1 PLAN - TRAPEZOIDAL CHANNEL**  
SCALE: 3/16"=1'-0"

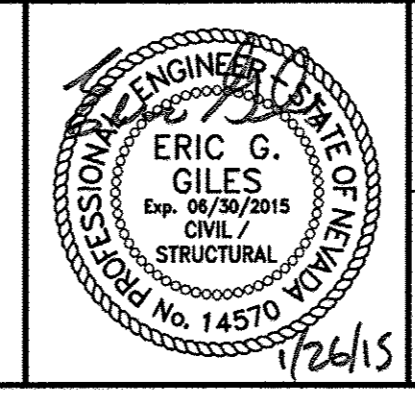


**A SECTION**  
SCALE: 3/16"=1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDPD-1 PEACEFUL DAWN TRANSITION STRUCTURE  
STA 12+20.19 TO STA 12+58.61  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

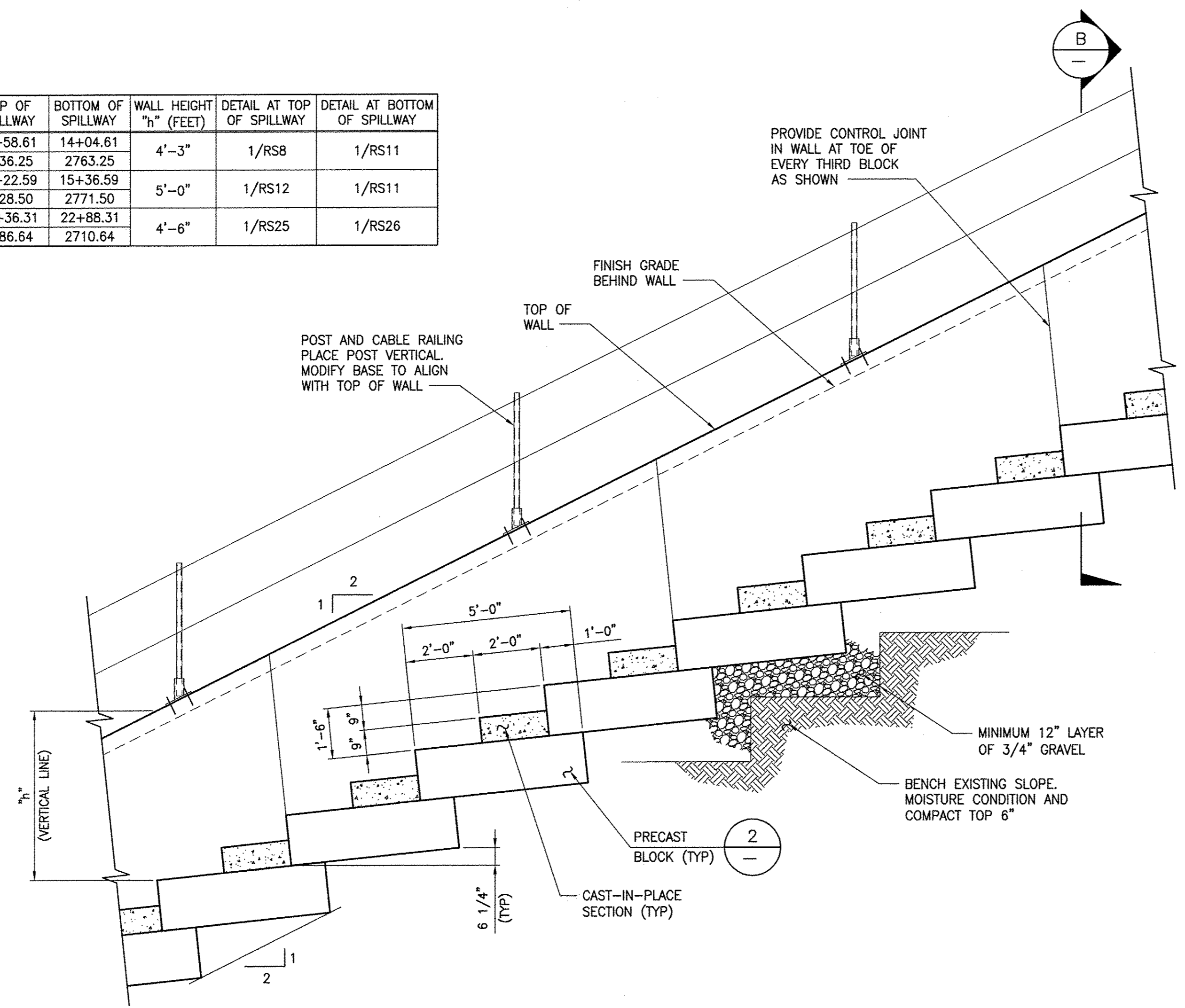


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 576 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

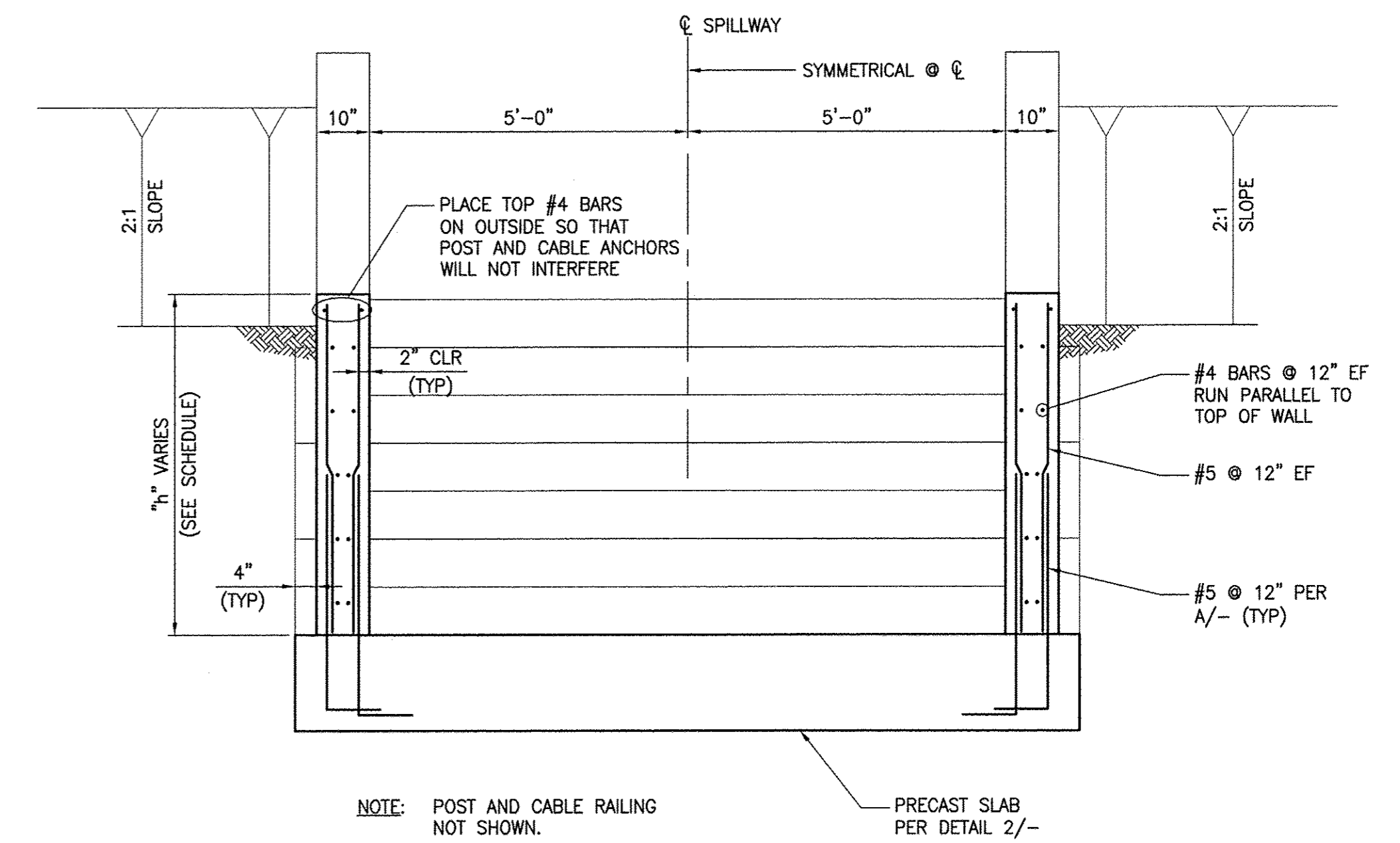
BID NO. 603576-15

SPILLWAY LINE #		TOP OF SPILLWAY	BOTTOM OF SPILLWAY	WALL HEIGHT "h" (FEET)	DETAIL AT TOP OF SPILLWAY	DETAIL AT BOTTOM OF SPILLWAY
SDPD-1	STATION	12+58.61	14+04.61	4'-3"	1/RS8	1/RS11
	ELEVATION	2836.25	2763.25			
SDLM-1	STATION	14+22.59	15+36.59	5'-0"	1/RS12	1/RS11
	ELEVATION	2828.50	2771.50			
SDNDB-B3	STATION	21+36.31	22+88.31	4'-6"	1/RS25	1/RS26
	ELEVATION	2786.64	2710.64			

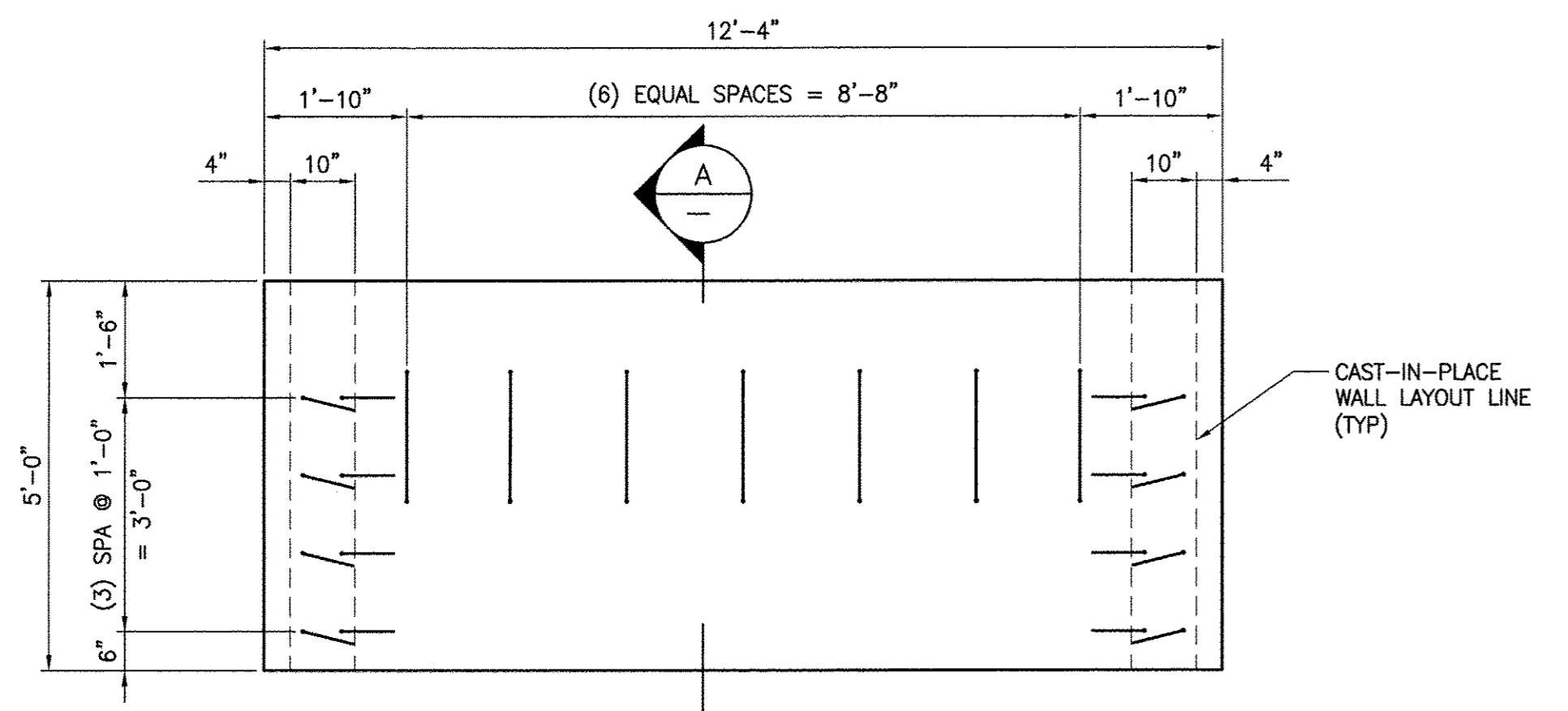


**1 STEPPED SPILLWAY**  
SCALE: 3/8" = 1'-0"

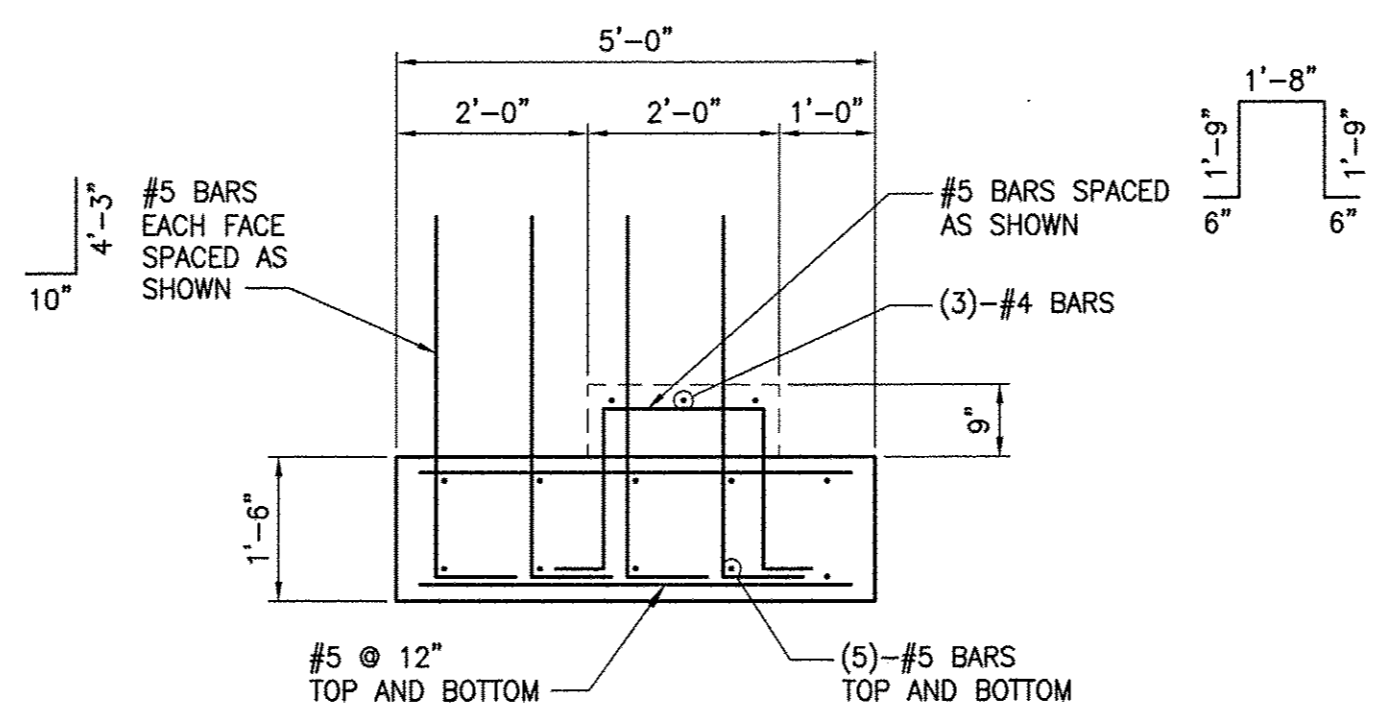
REF DWG: RSD1A, RSD4A, RSD12



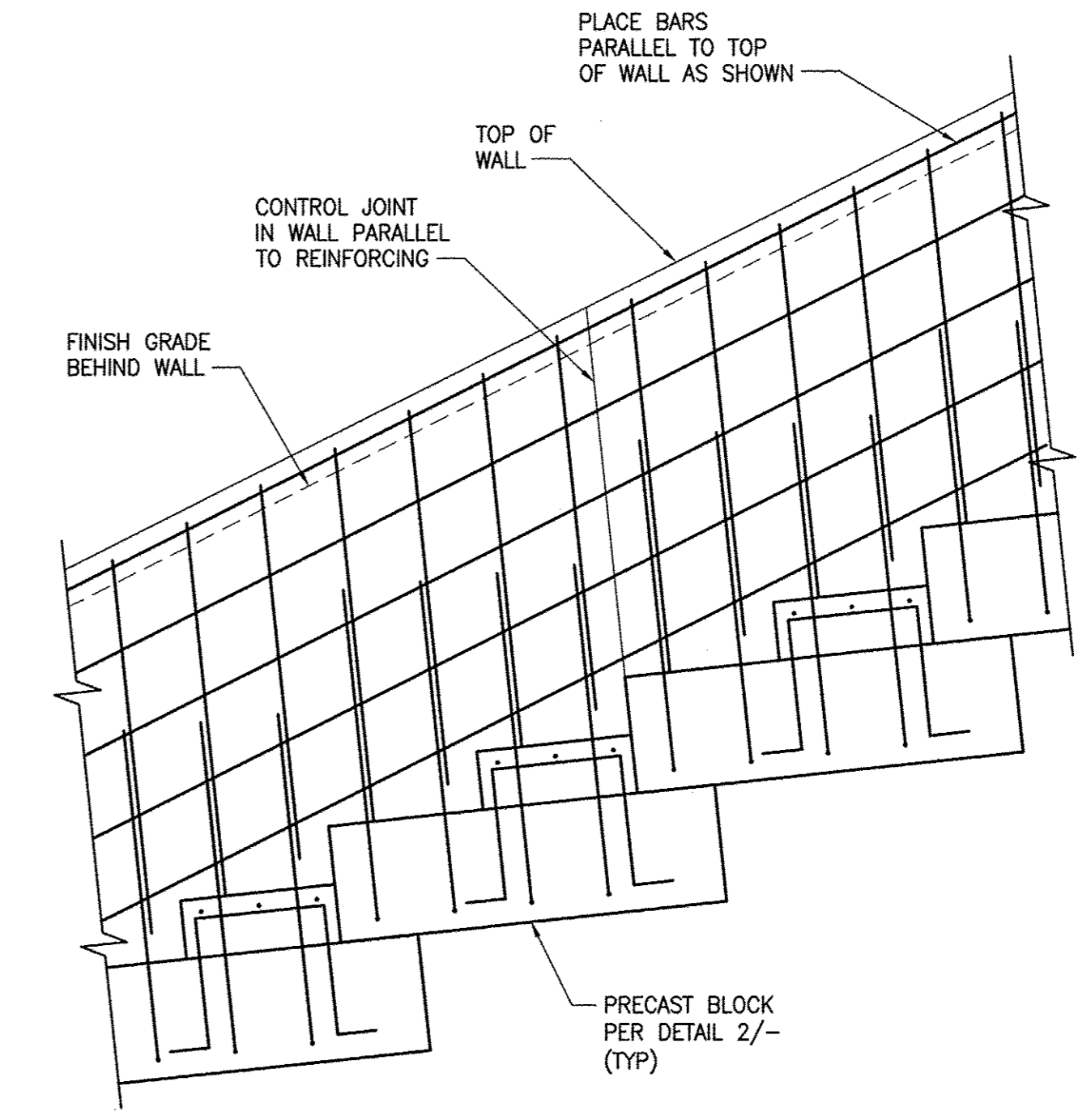
**B SECTION**  
SCALE: 1/2" = 1'-0"



**2 PRECAST CONCRETE BLOCK**  
SCALE: 1/2" = 1'-0"

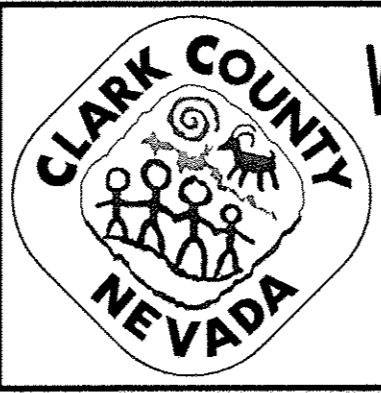


**A SECTION**  
SCALE: 1/2" = 1'-0"

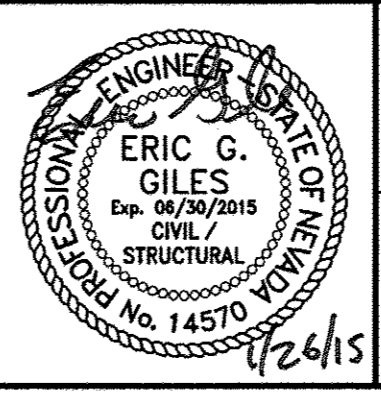


**3 SPILLWAY REINFORCING DETAIL**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 TYPICAL STEPPED SPILLWAY  
 SDPD-1, SDLM-1 AND SDNDB-B3 LINES  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

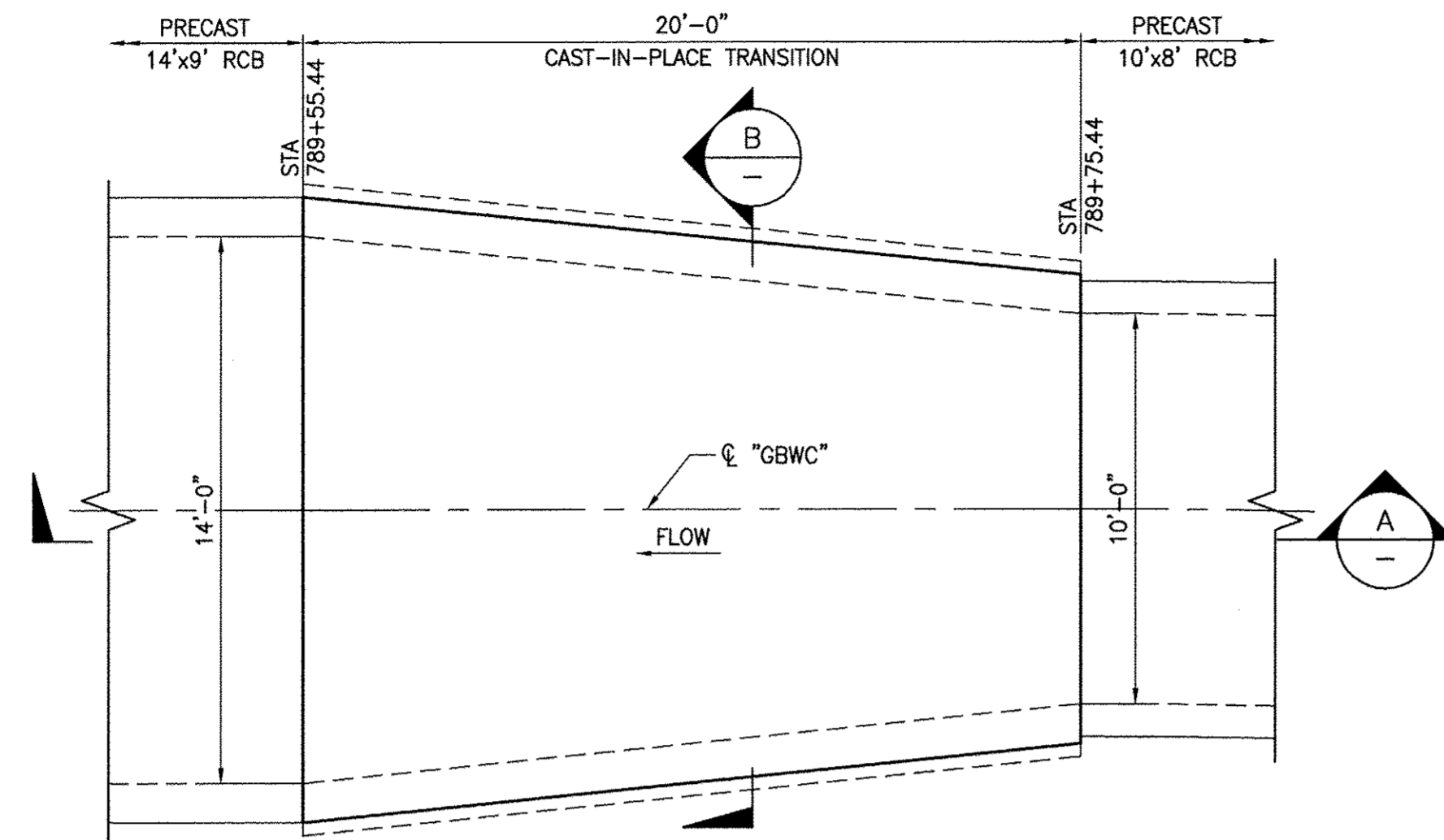
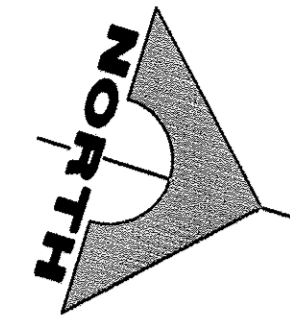


PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

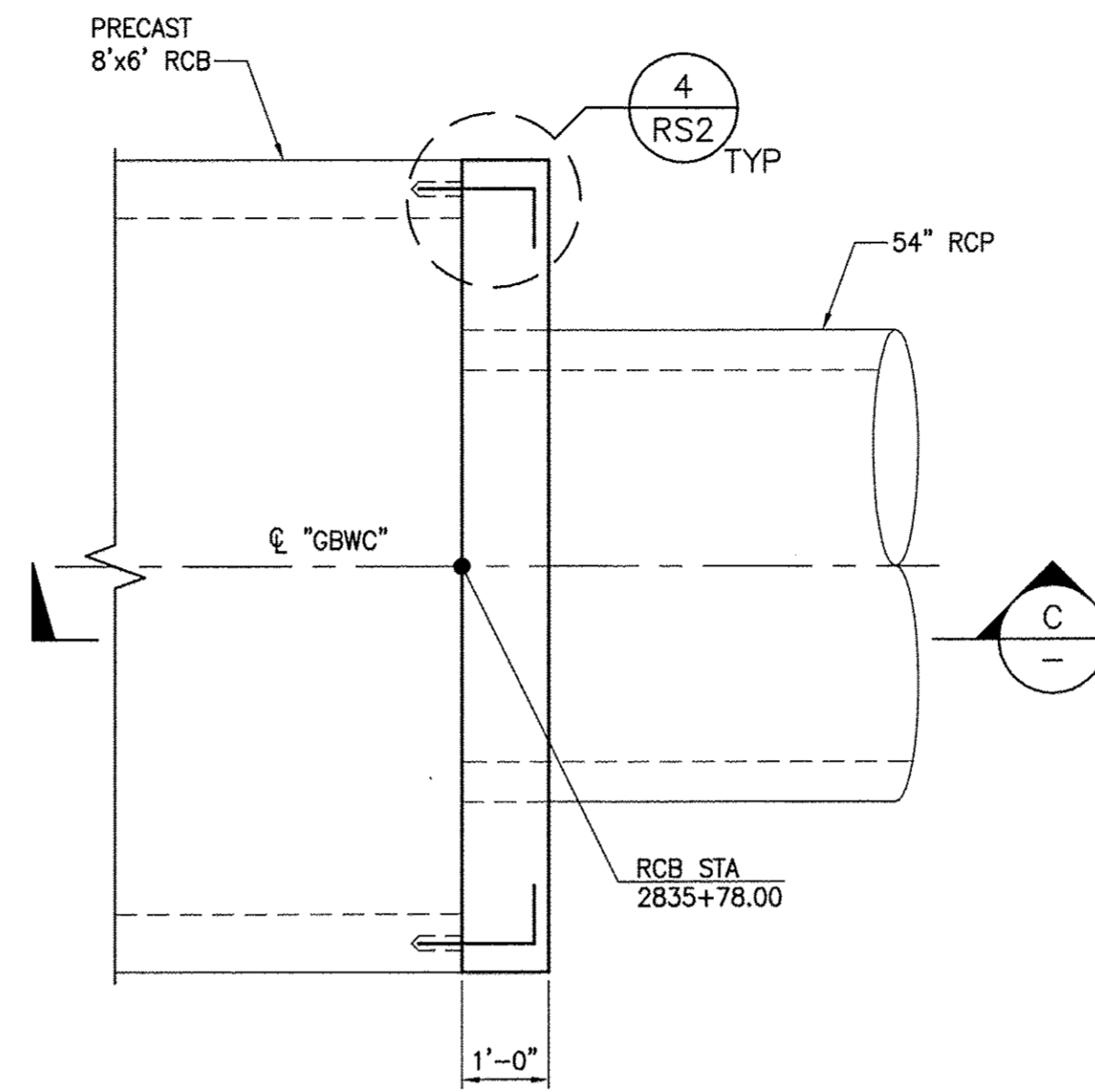
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FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.
RS9
SHT. 577 OF 600

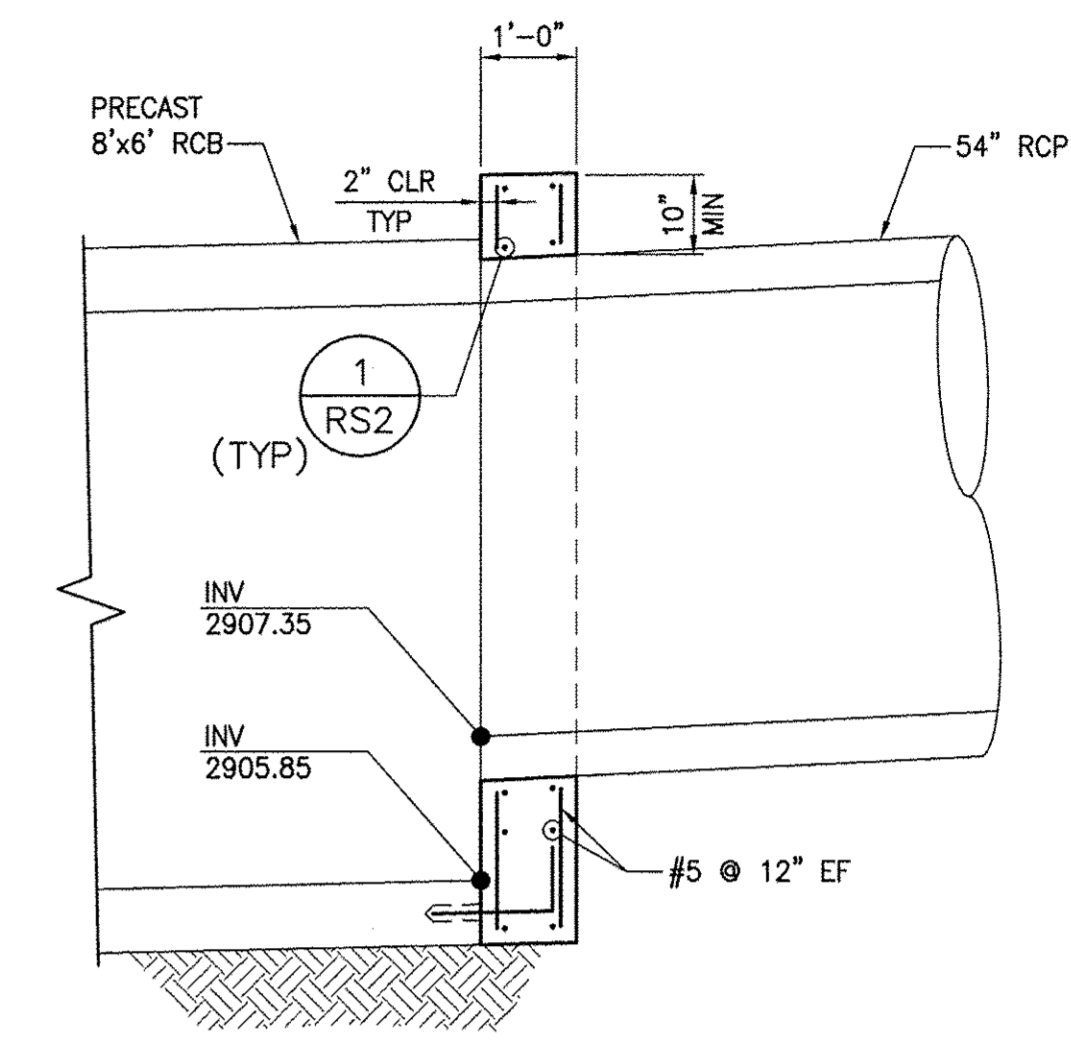
BID. NO. 603576-15



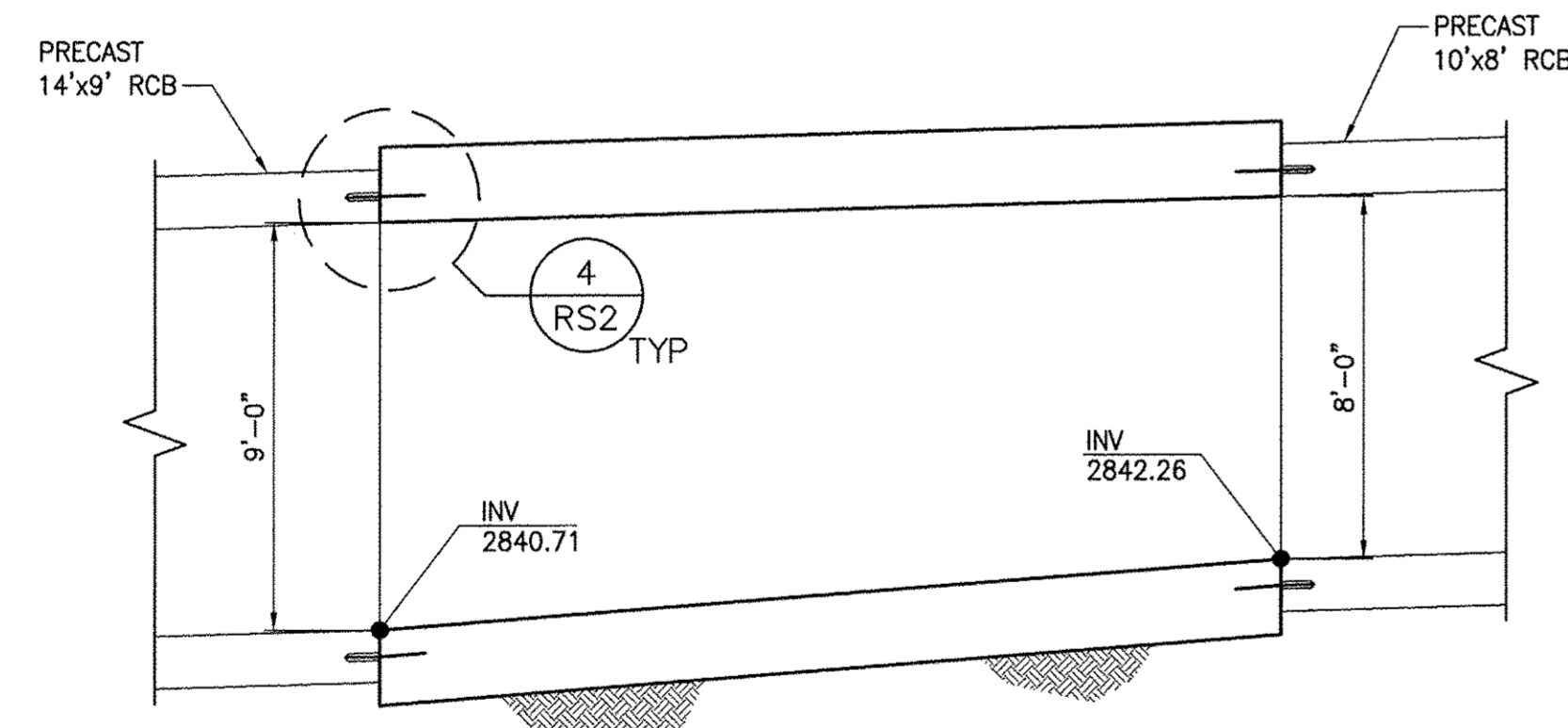
**1 PLAN - RCB TRANSITION STRUCTURE**  
 SCALE: 1/4" = 1'-0" REF DWG: RSD20



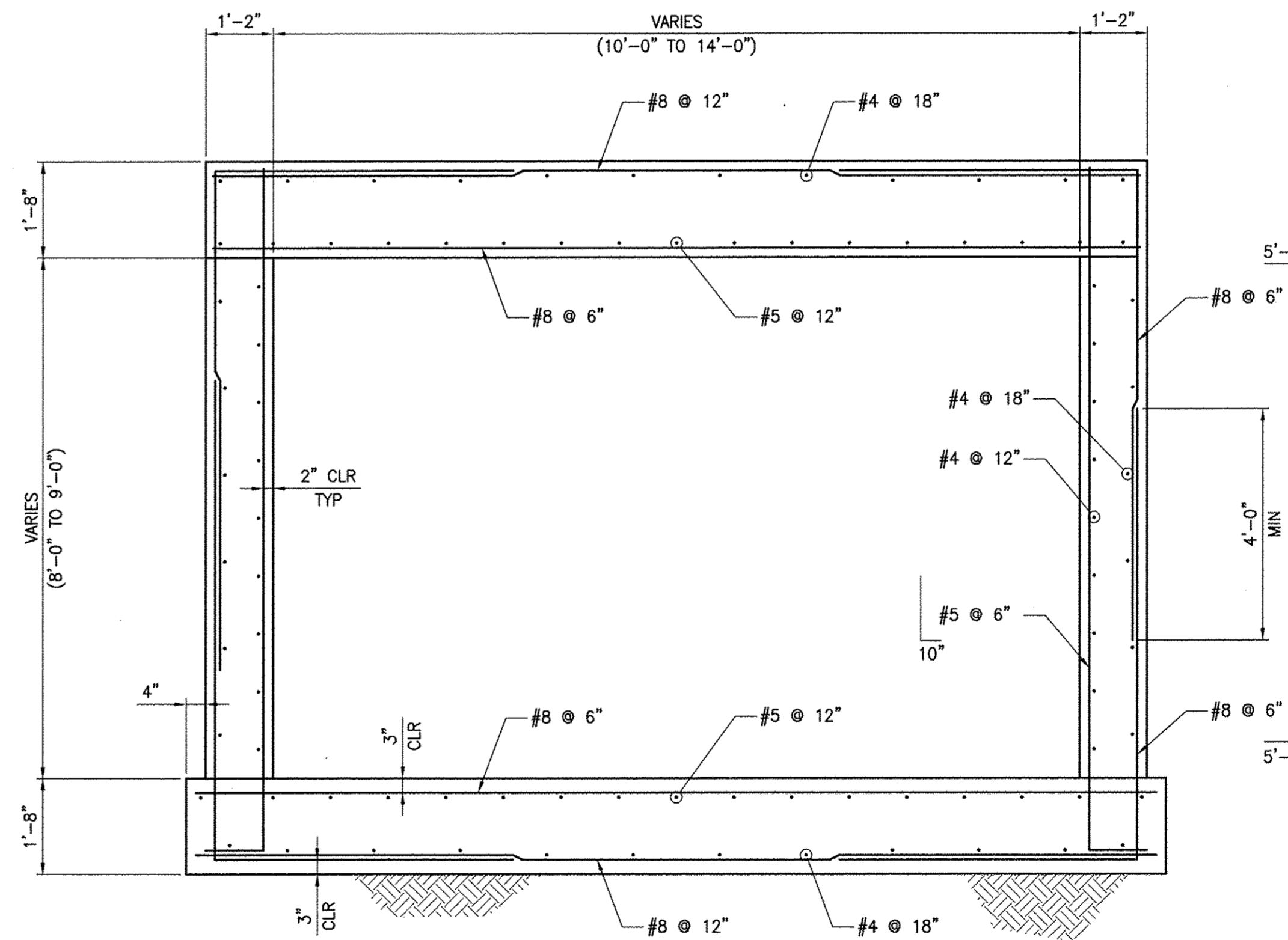
**2 PLAN - RCB TO RCP TRANSITION**  
 SCALE: 1/2" = 1'-0" REF DWG: RSD23



**C SECTION**  
 SCALE: 1/2" = 1'-0"

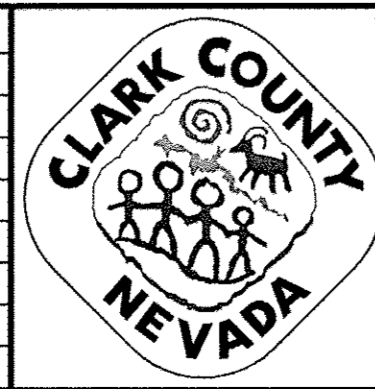


**A SECTION**  
 SCALE: 1/4" = 1'-0"

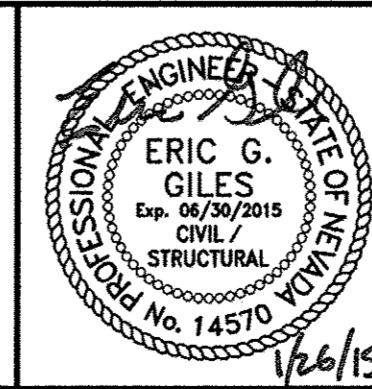


**B SECTION**  
 SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 GBWC TRANSITION STRUCTURES  
 STA 789+55.44 TO STA 789+75.44 AND STA 2835+78.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

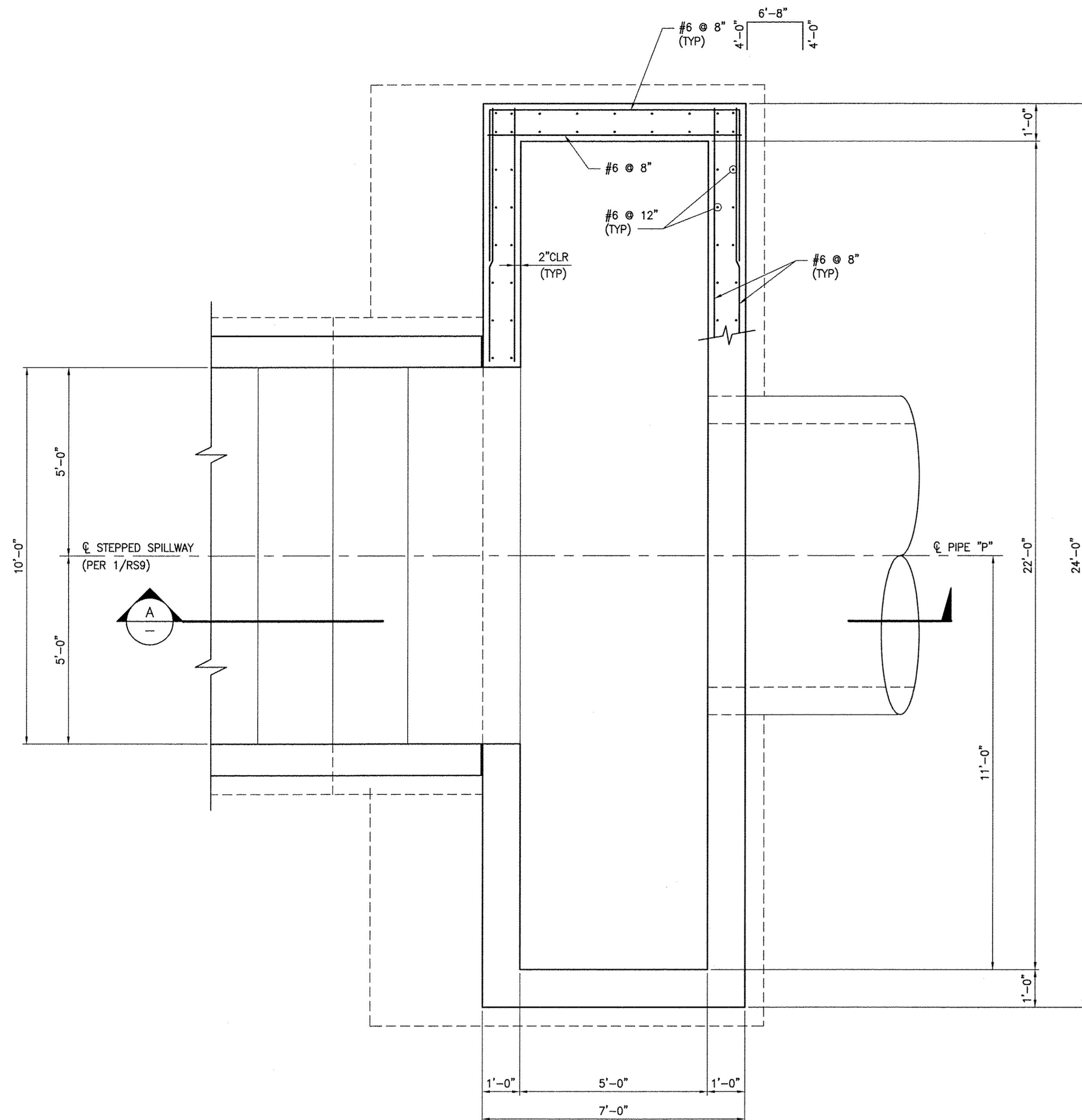


PROJECT No: 451.002.001 DRAWN BY: FAM  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
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SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS10	
SHT. 578	OF 600

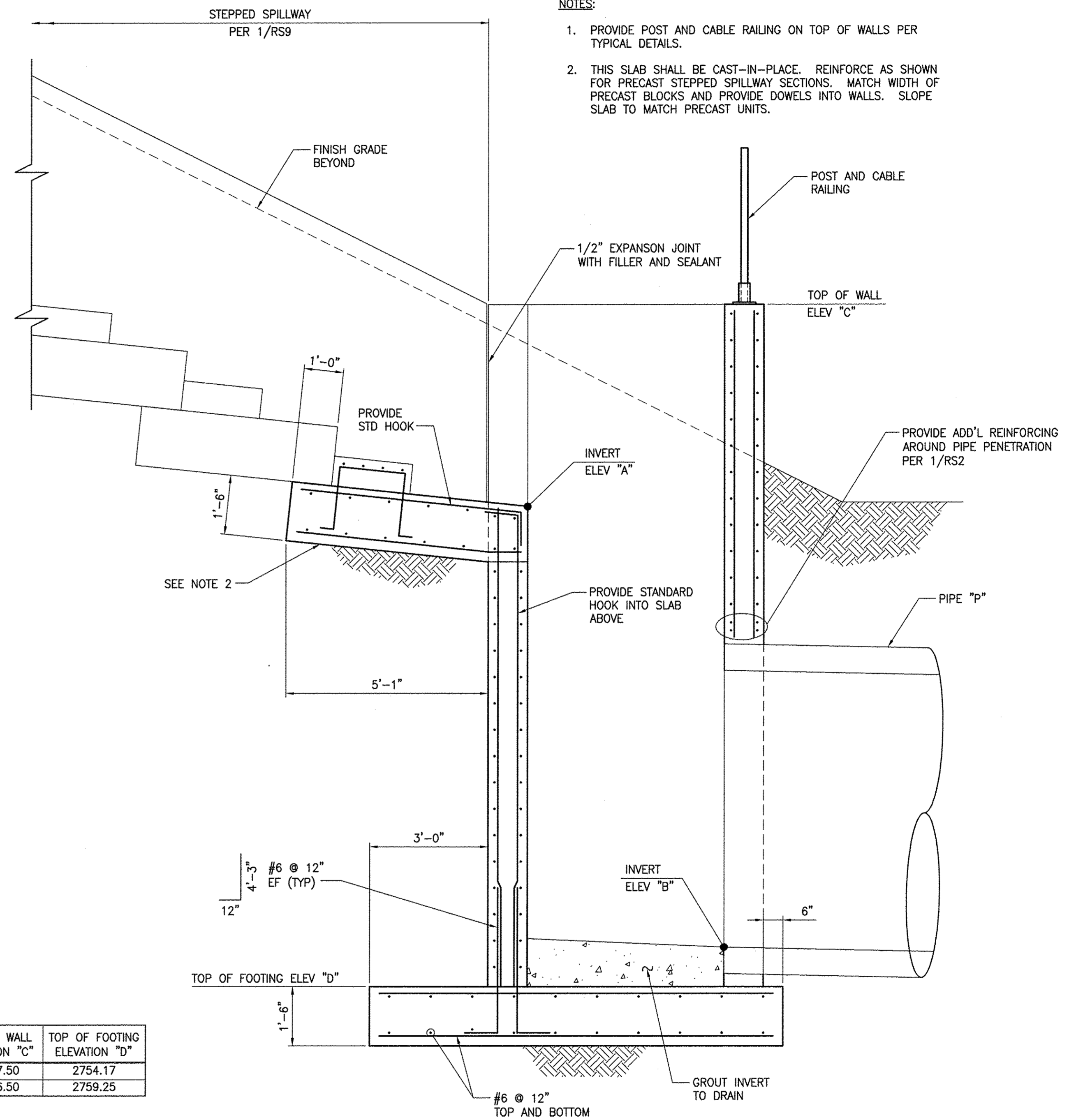




	PIPE "P" SIZE	INVERT ELEVATION "A"	PIPE INVERT ELEVATION "B"	TOP OF WALL ELEVATION "C"	TOP OF FOOTING ELEVATION "D"
SDPD-1 LINE	66" ø	2763.25	2755.17	2767.50	2754.17
SDLM-1 LINE	84" ø	2771.50	2760.25	2776.50	2759.25

**1 PLAN**  
SCALE: 1/2" = 1'-0"

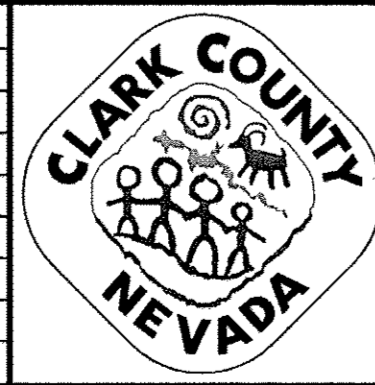
REF DWG: RSD25, RSD26



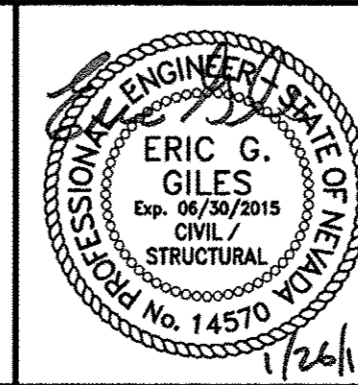
- NOTES:**
1. PROVIDE POST AND CABLE RAILING ON TOP OF WALLS PER TYPICAL DETAILS.
  2. THIS SLAB SHALL BE CAST-IN-PLACE. REINFORCE AS SHOWN FOR PRECAST STEPPED SPILLWAY SECTIONS. MATCH WIDTH OF PRECAST BLOCKS AND PROVIDE DOWELS INTO WALLS. SLOPE SLAB TO MATCH PRECAST UNITS.

**A SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDPD-1 AND SDLM-1 IMPACT/DROP STRUCTURE  
SDPD-1 LINE (STA 14+04.61) & SDLM-1 (STA 15+36.59)  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

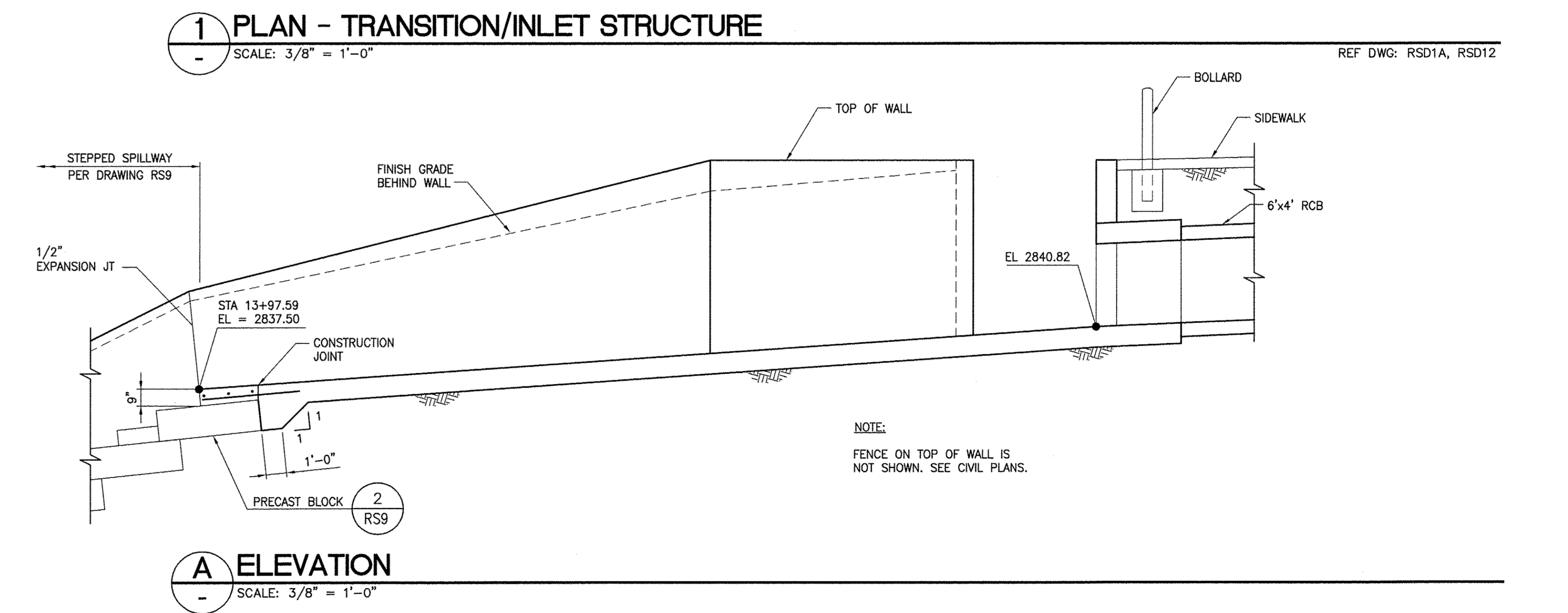
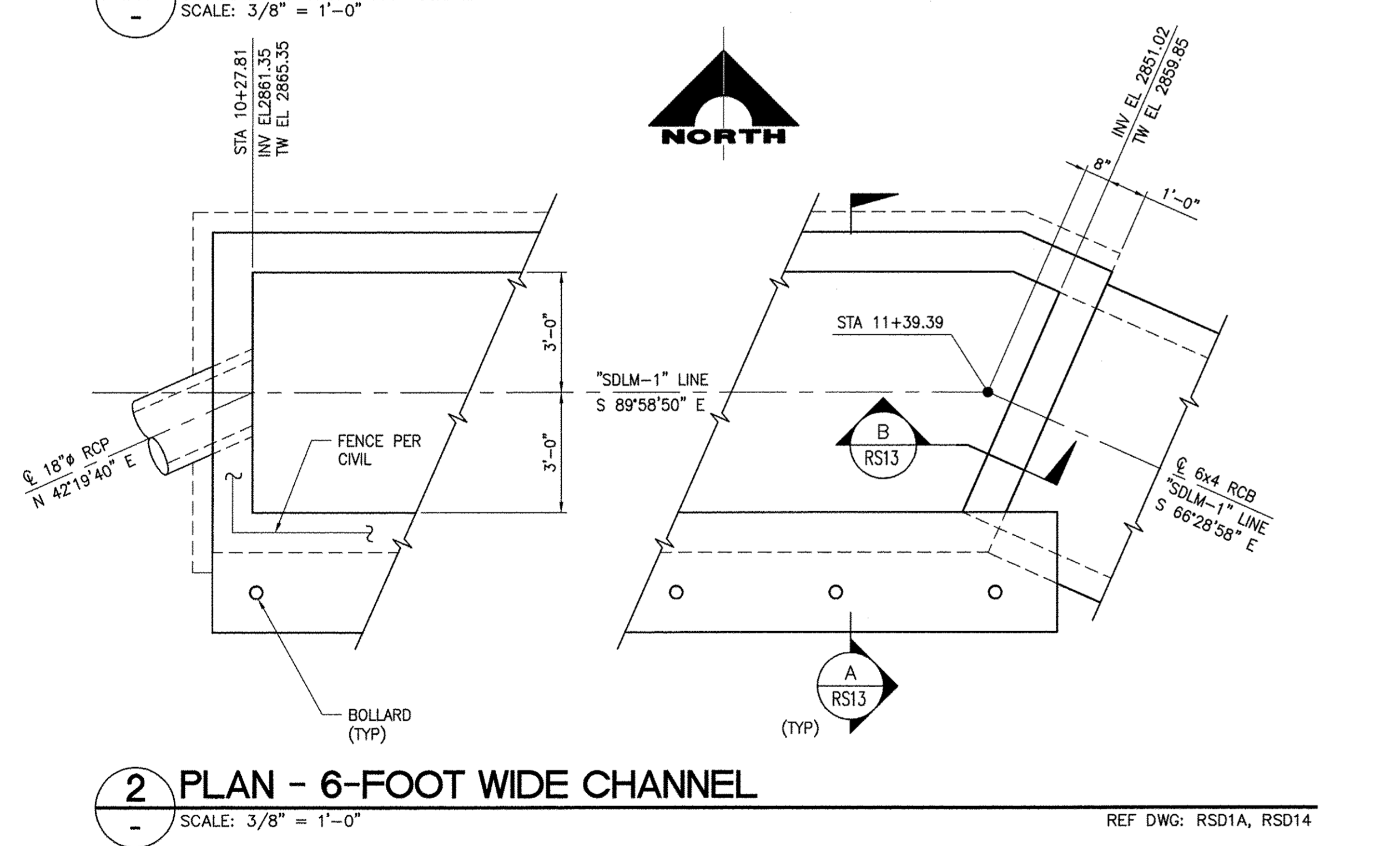
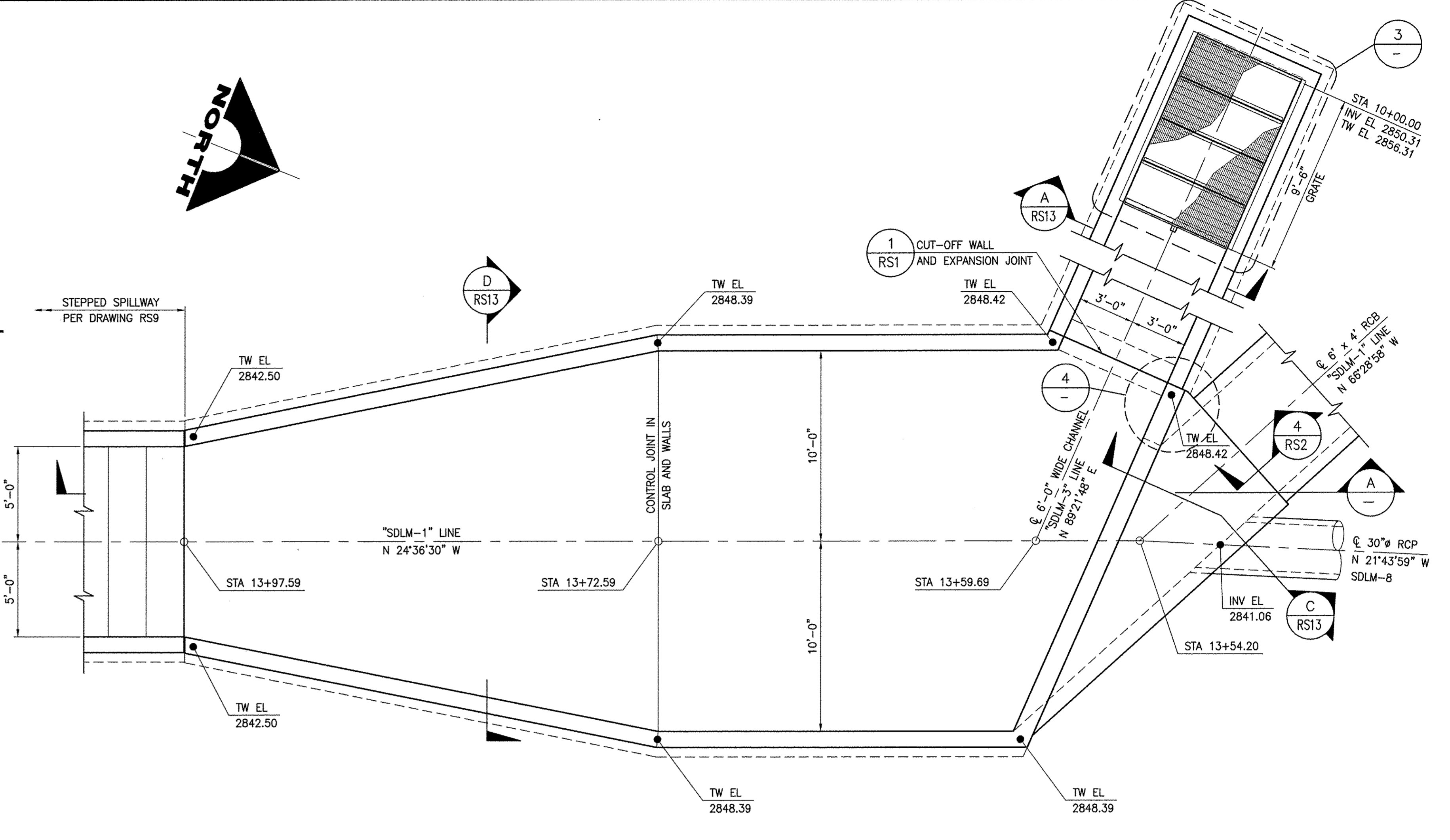
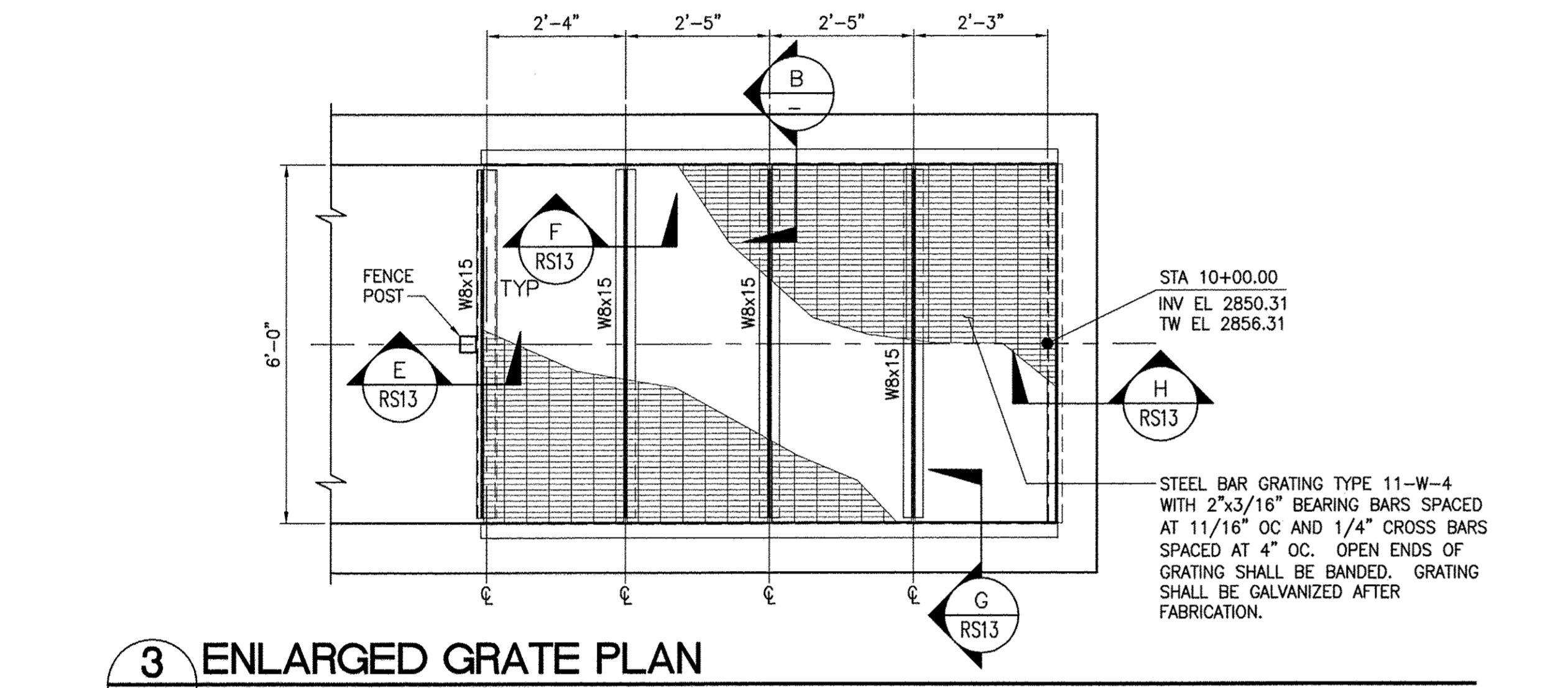
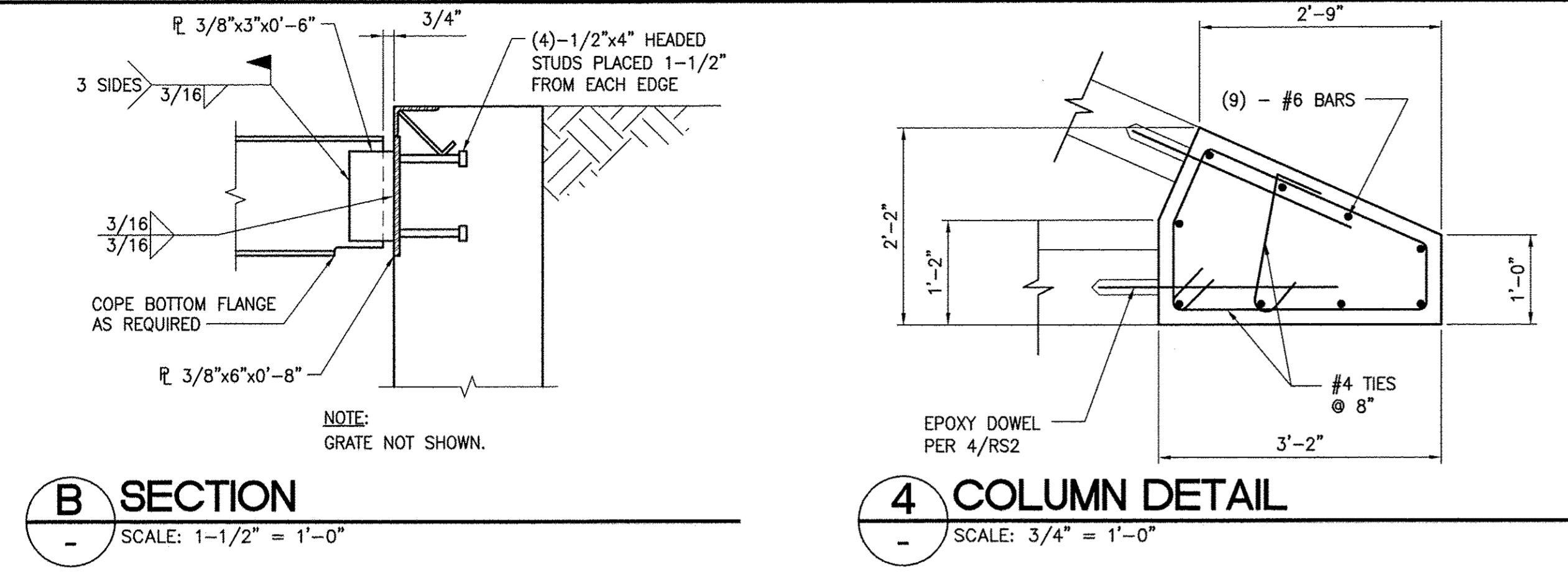


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

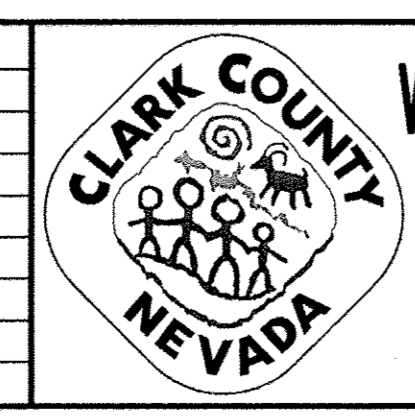
SCALE  
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VERT: NONE  
FIELD BOOK  
CCPW PROJECT #  
W.O. #: 2008-62

DRAWING NO. **RS11**  
SHT. 579 OF 600

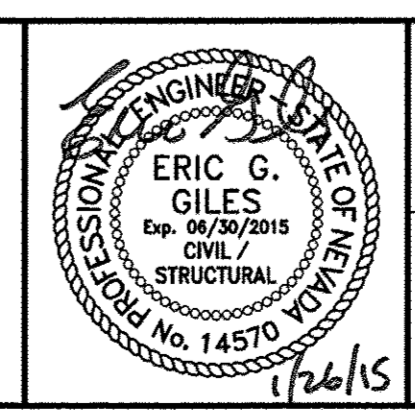
BID NO. 603576-15



REV. NO.	DATE	DESCRIPTION	APPROVED



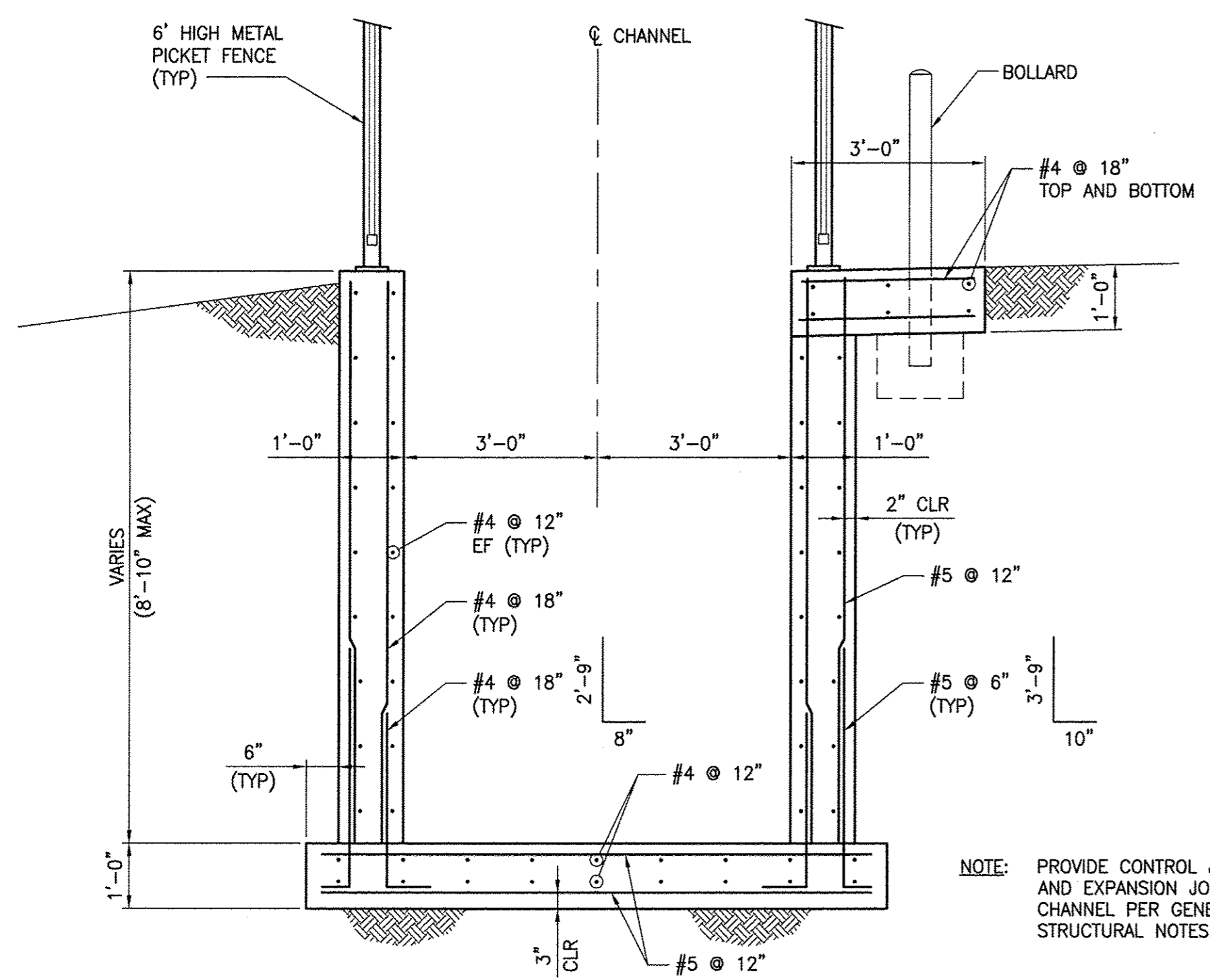
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**SDLM-1 TRANSITION/INLET STRUCTURE**  
 SDLM-1 & -2 LINES STA 10+36.26 TO STA 14+22.59  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



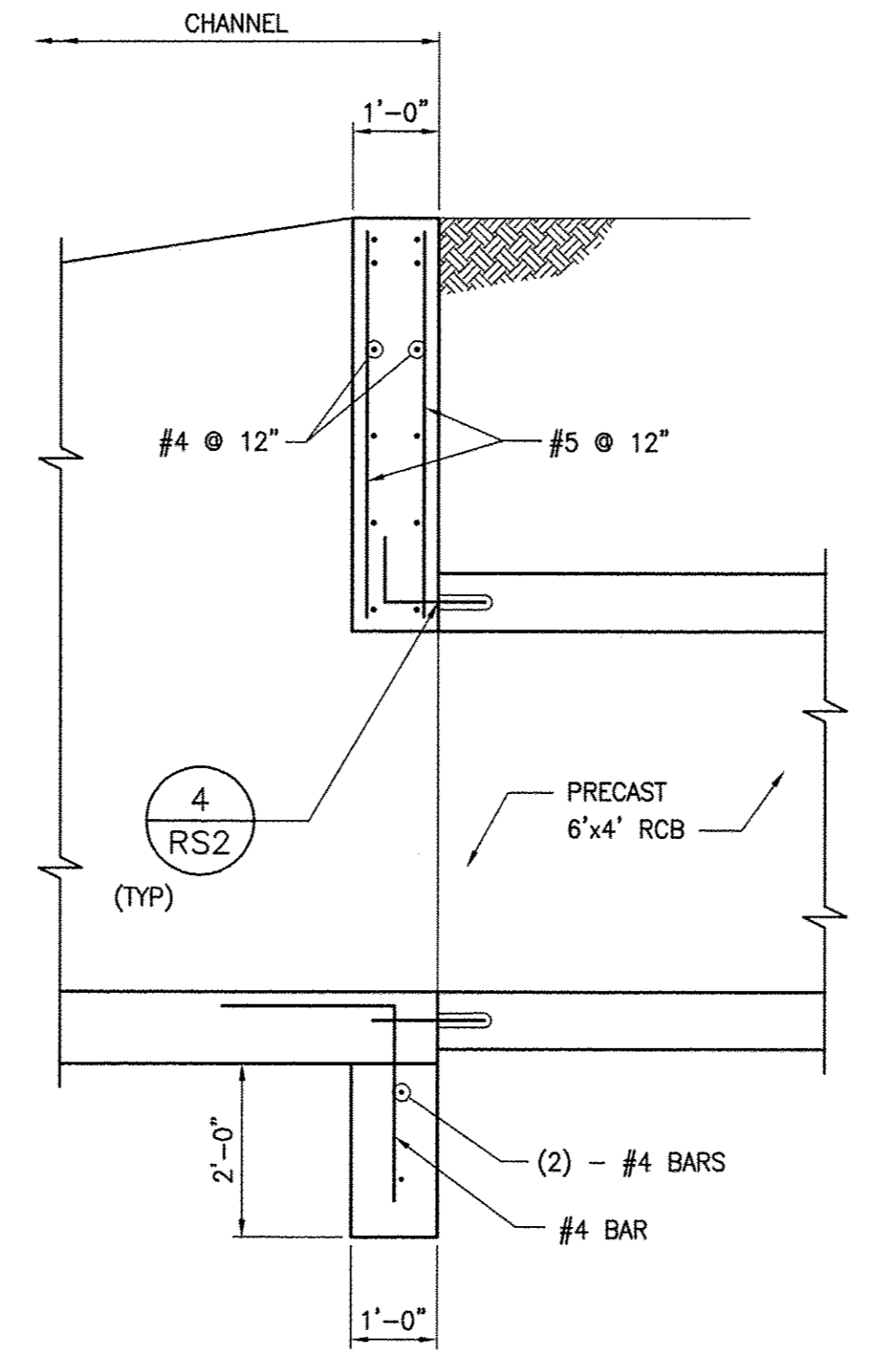
PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: AGT CHECKED BY: FEV  
 APPROVED BY: FEV

**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

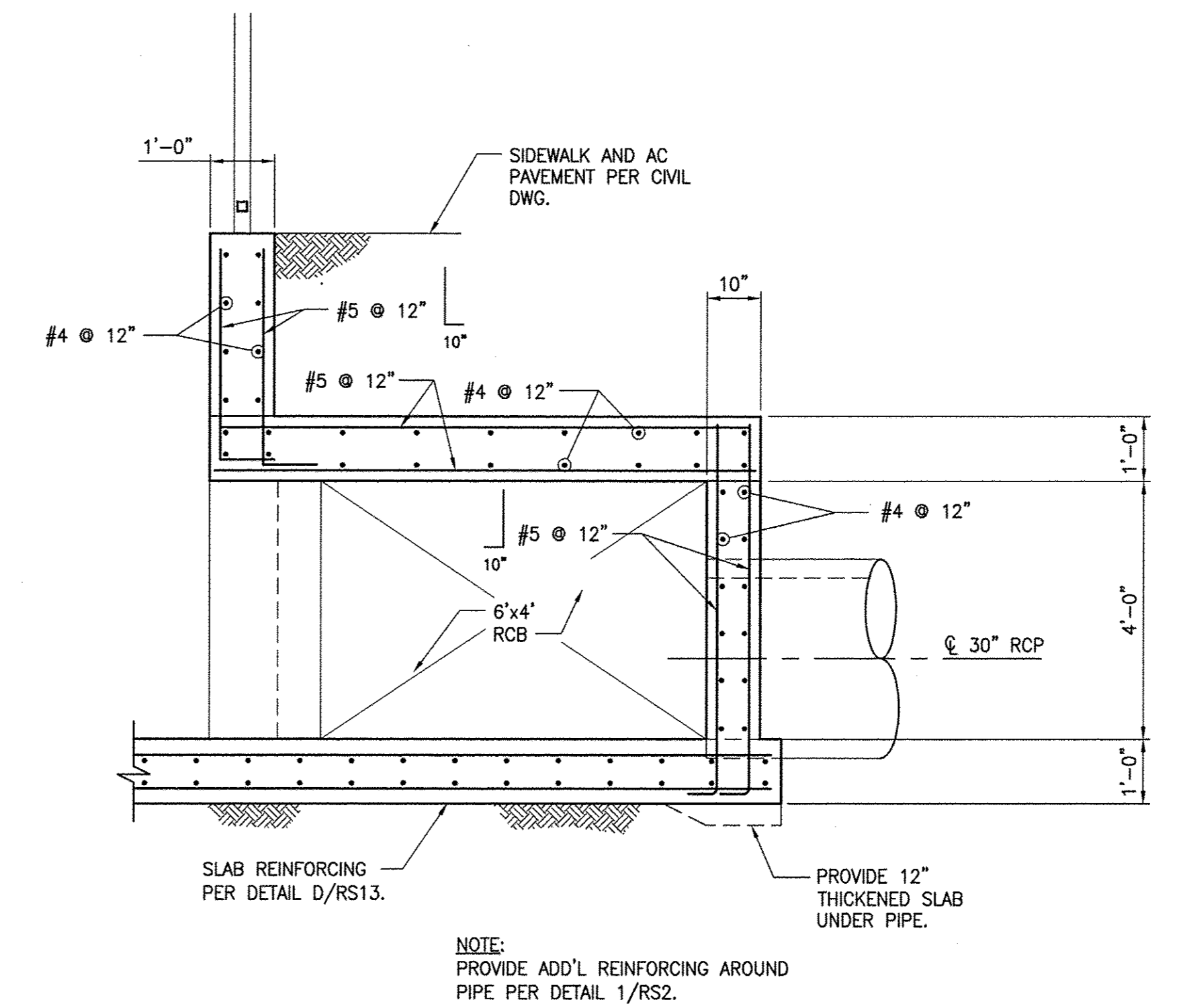
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 580 OF 600
CCPW PROJECT #		
W.O. #: 2008-62		



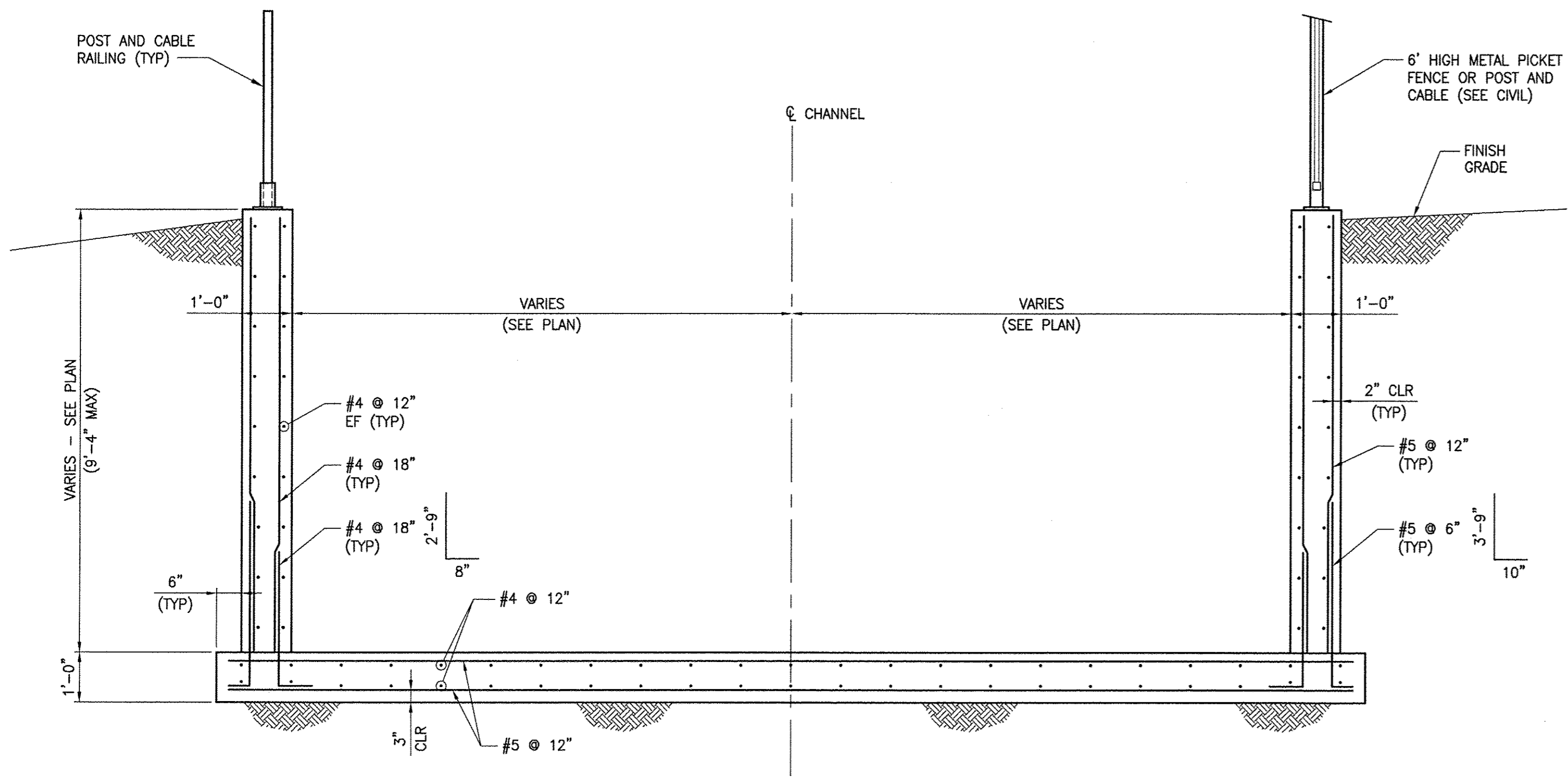
**A SECTION**  
SCALE: 1/2" = 1'-0"



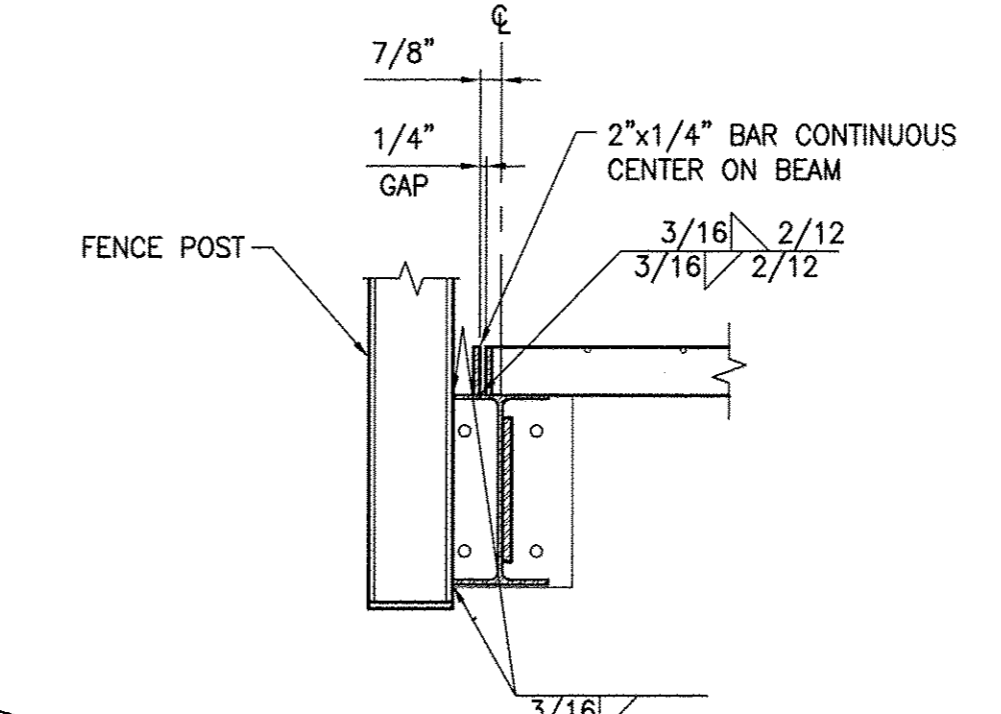
**B SECTION**  
SCALE: 1/2" = 1'-0"



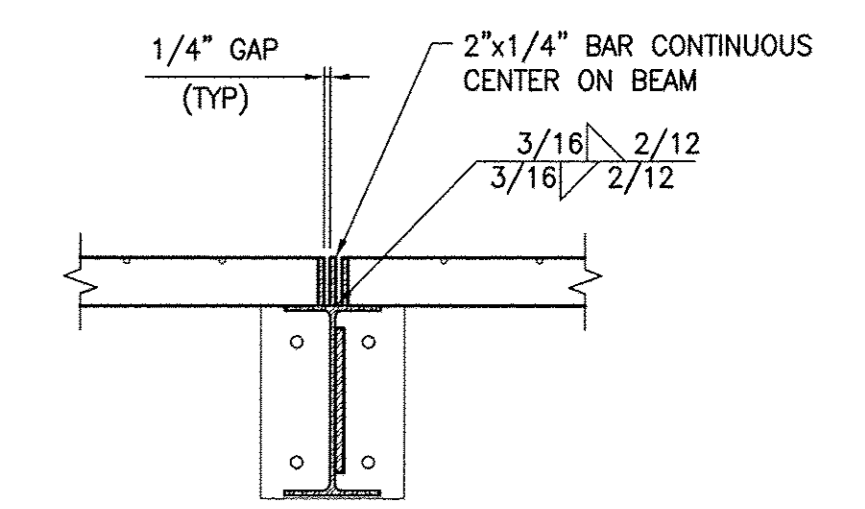
**C SECTION**  
SCALE: 1/2" = 1'-0"



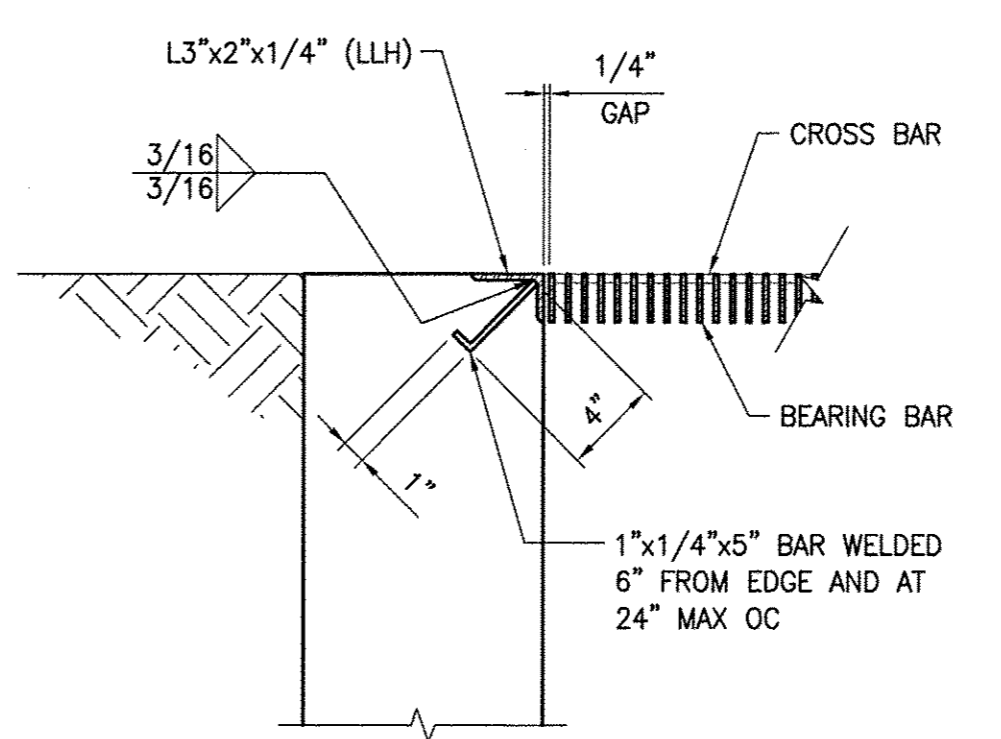
**D SECTION**  
SCALE: 1/2" = 1'-0"



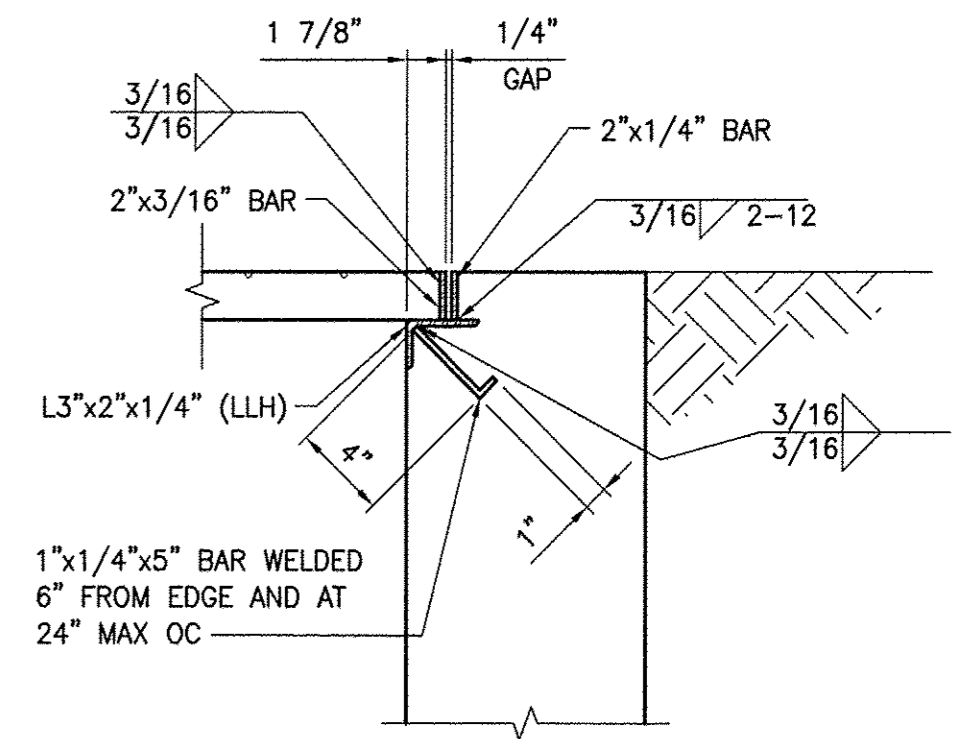
**E SECTION**  
SCALE: 1-1/2" = 1'-0"



**F SECTION**  
SCALE: 1-1/2" = 1'-0"

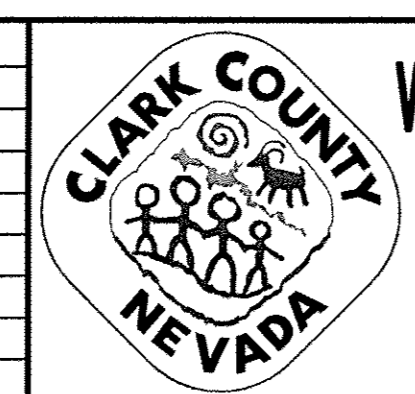


**G SECTION**  
SCALE: 1-1/2" = 1'-0"

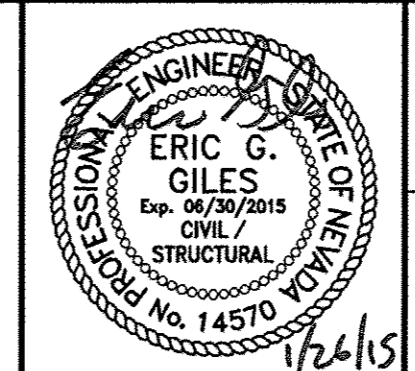


**H SECTION**  
SCALE: 1-1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 SECTIONS AND DETAILS  
 SDLM-1 & SDLM-3 LINES STA 13+55.18 TO STA 14+22.59  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

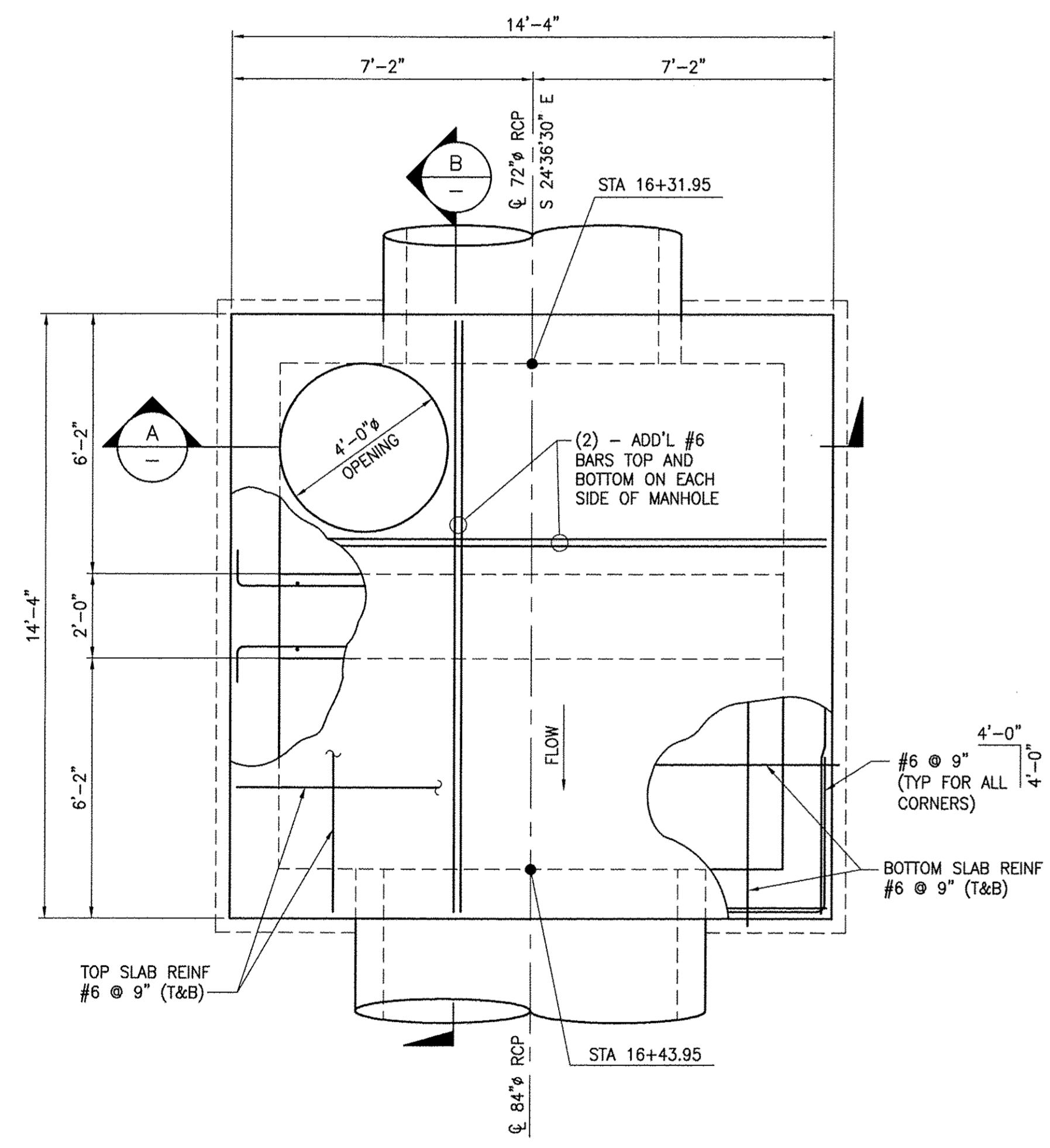


PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

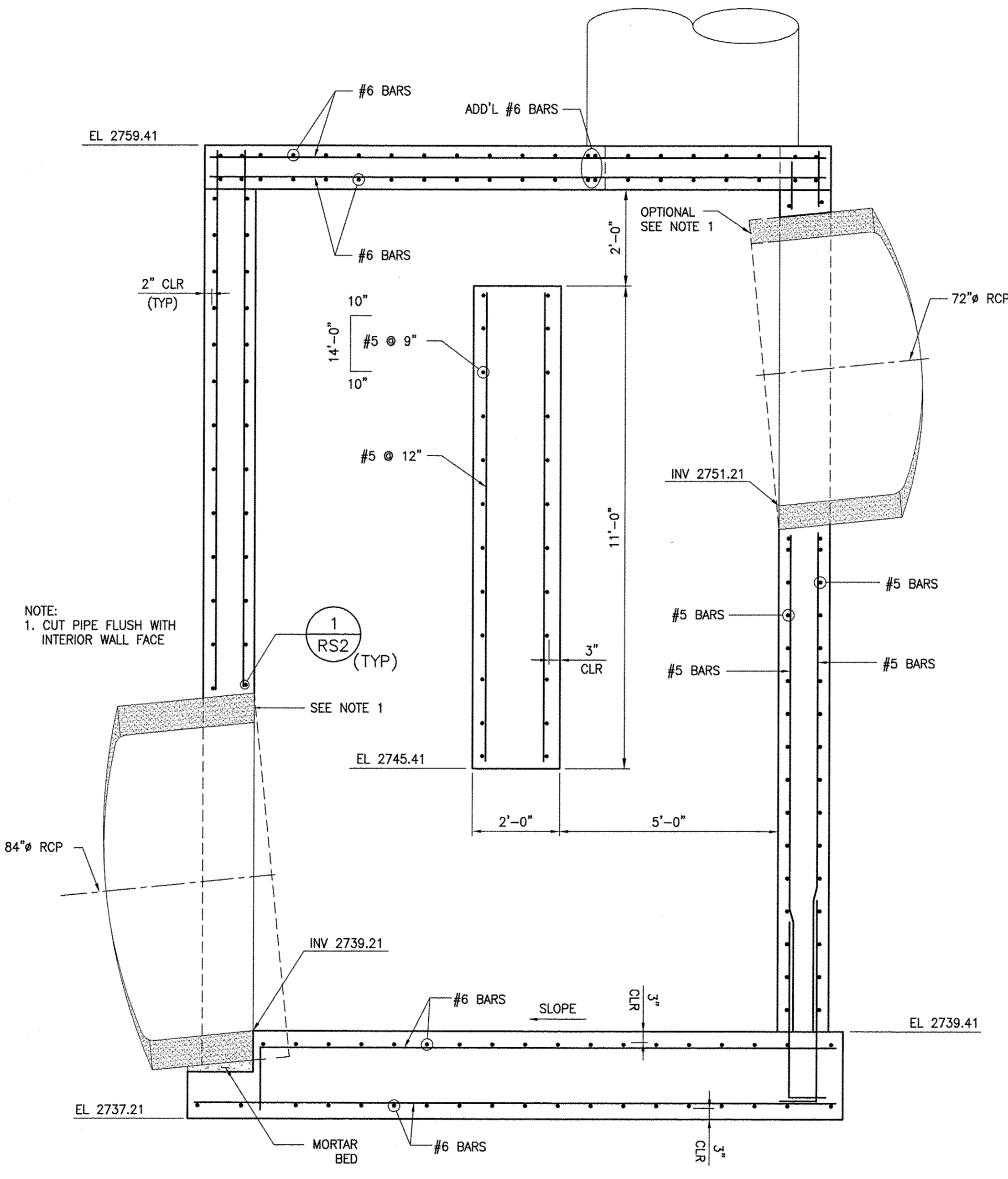
SCALE	
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FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS13	
SHT. 581	OF 600

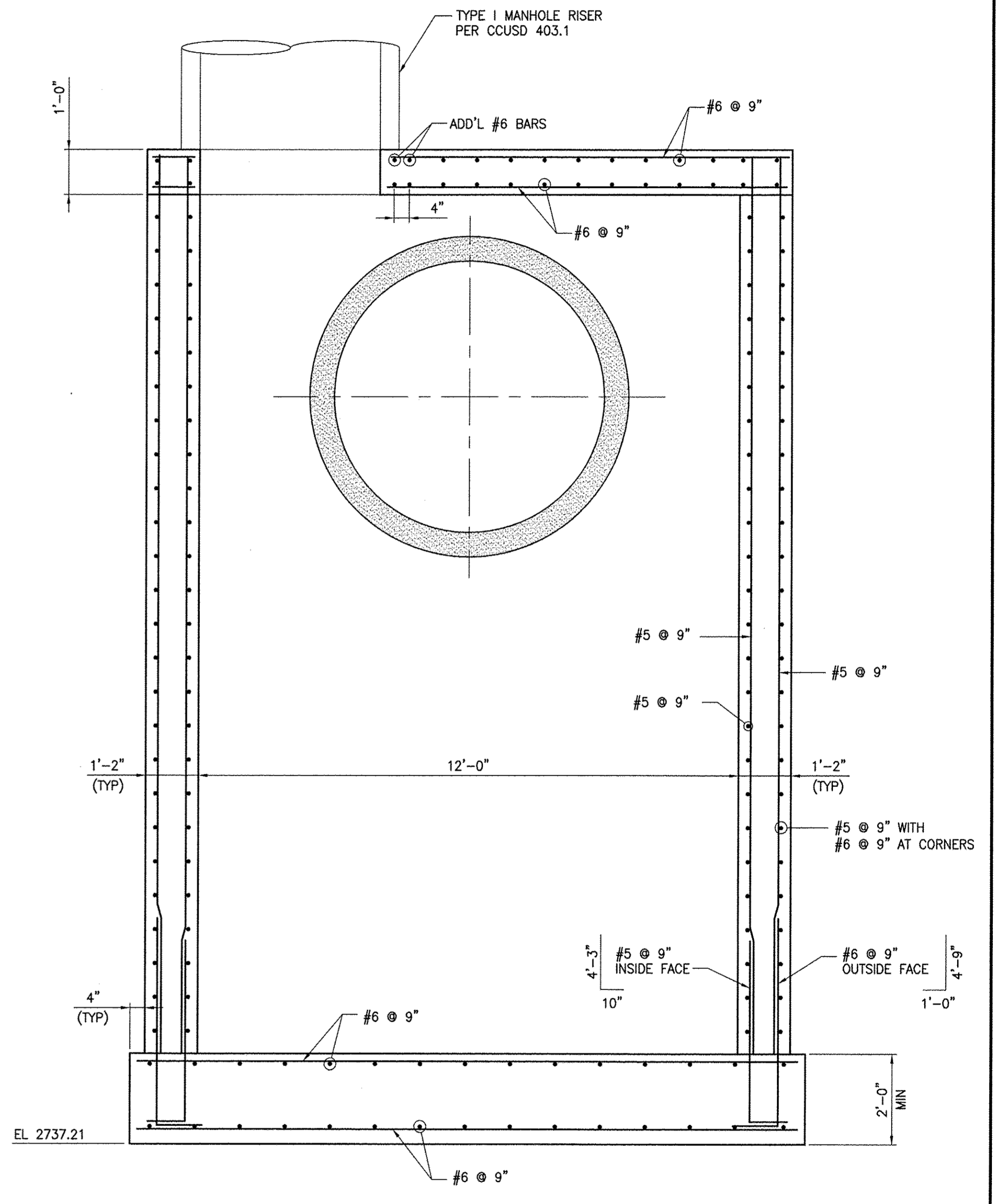
BID NO. 603576-15



**1 PLAN (ROOF)**  
SCALE: 3/8" = 1'-0"  
REF DWG: RSD26

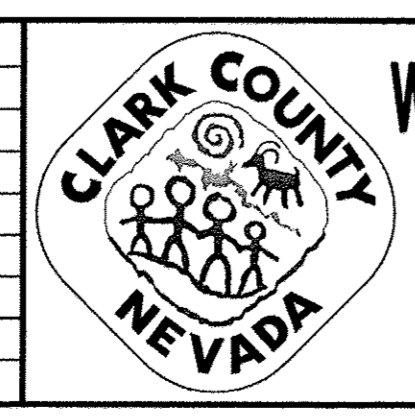


**B SECTION**  
SCALE: 1/2" = 1'-0"

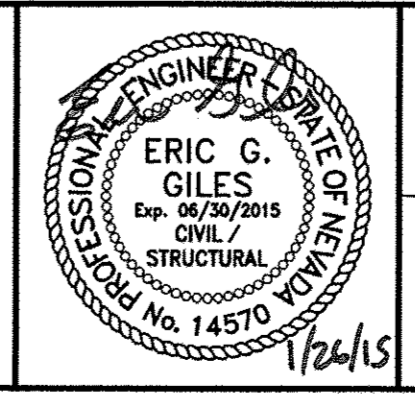


**A SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDLM-1 DROP STRUCTURE  
STA 16+31.95 TO STA 16+43.95  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

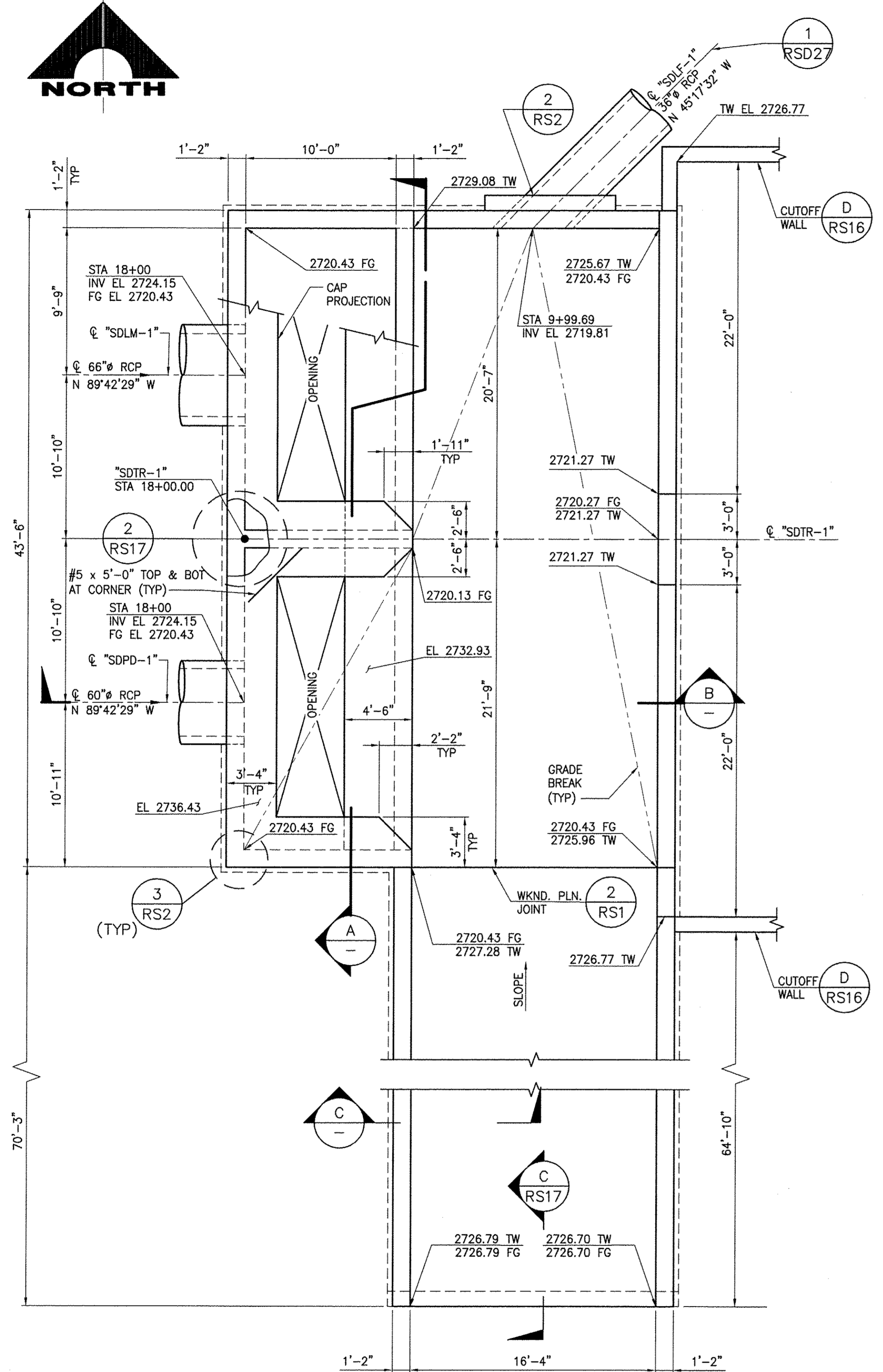


PROJECT No: 451.002.001 DRAWN BY: FAM/JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

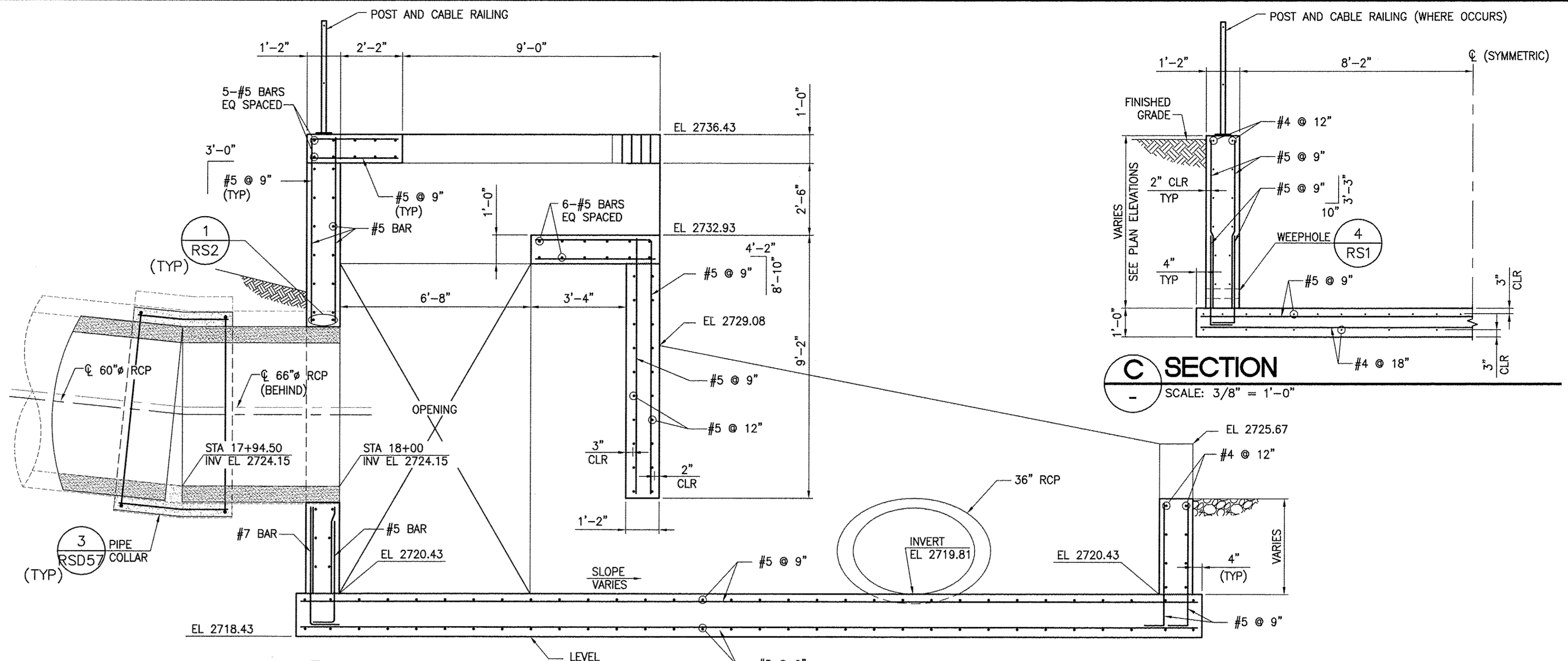
DRAWING NO.  
**RS14**  
SHT. 582 OF 600

BID NO. 603576-15

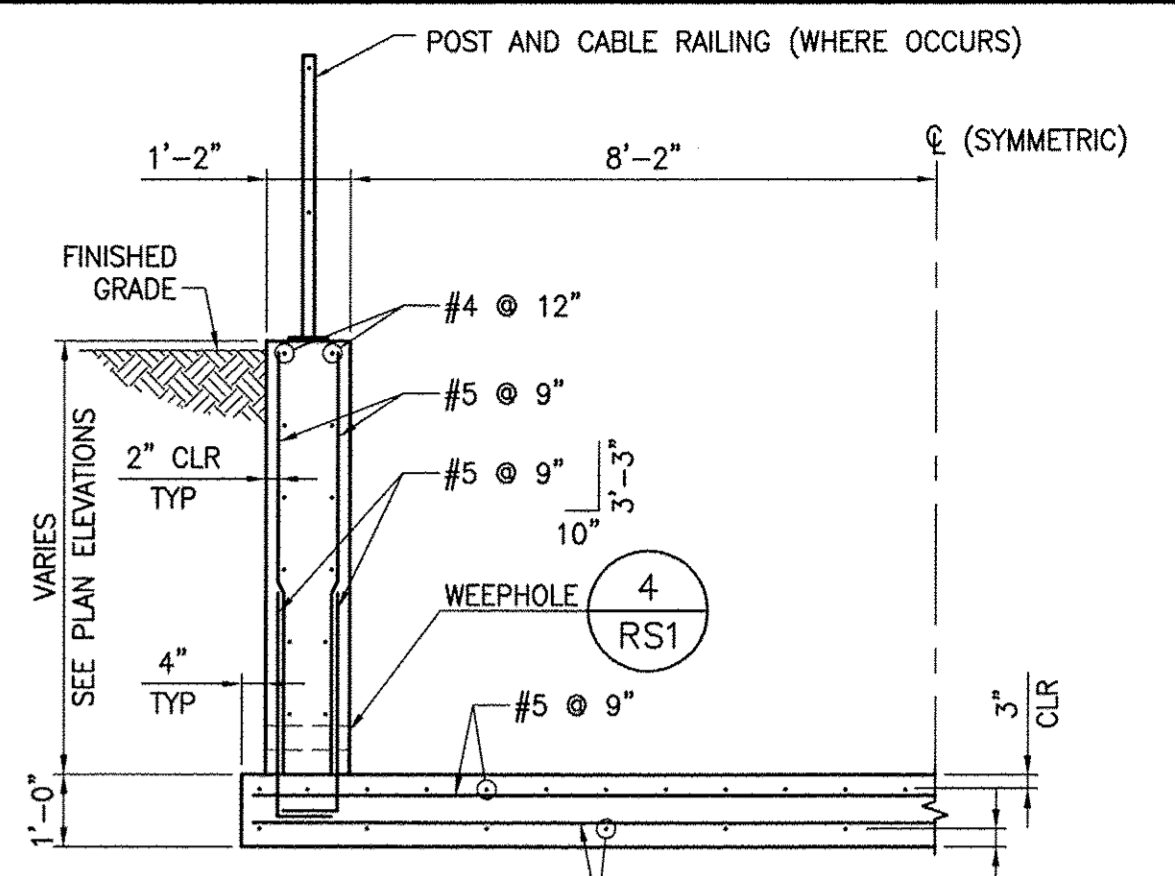


**1 PLAN**  
SCALE: 3/16" = 1'-0"

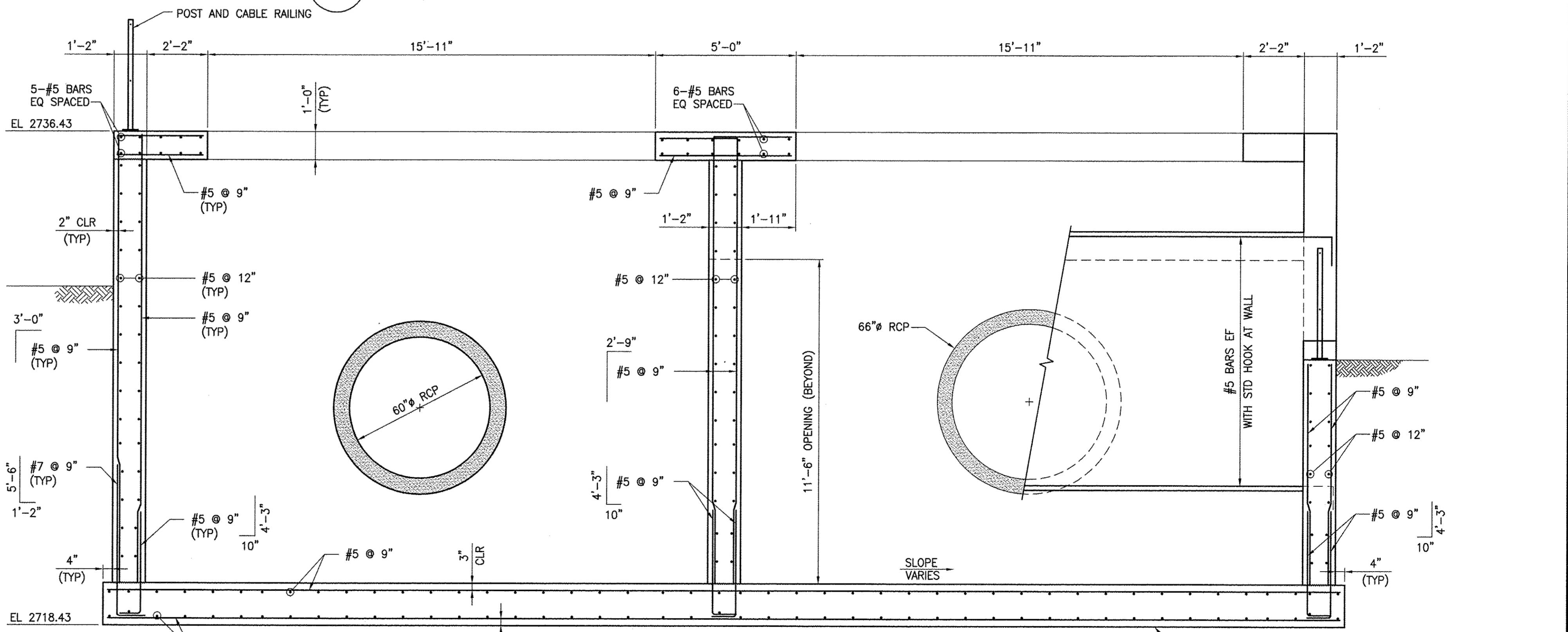
REF DWG: RSD1A, RSD14



**B SECTION**  
SCALE: 3/8" = 1'-0"

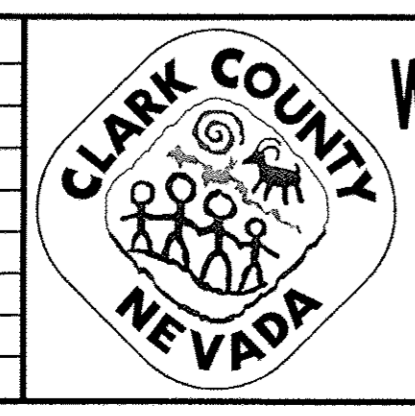


**C SECTION**  
SCALE: 3/8" = 1'-0"

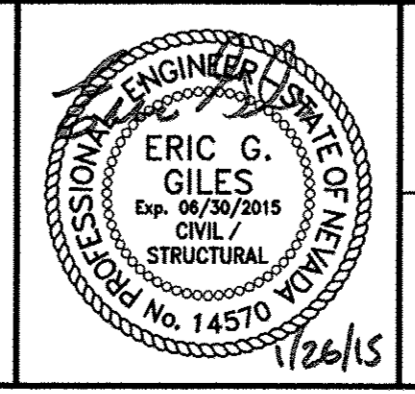


**A SECTION**  
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



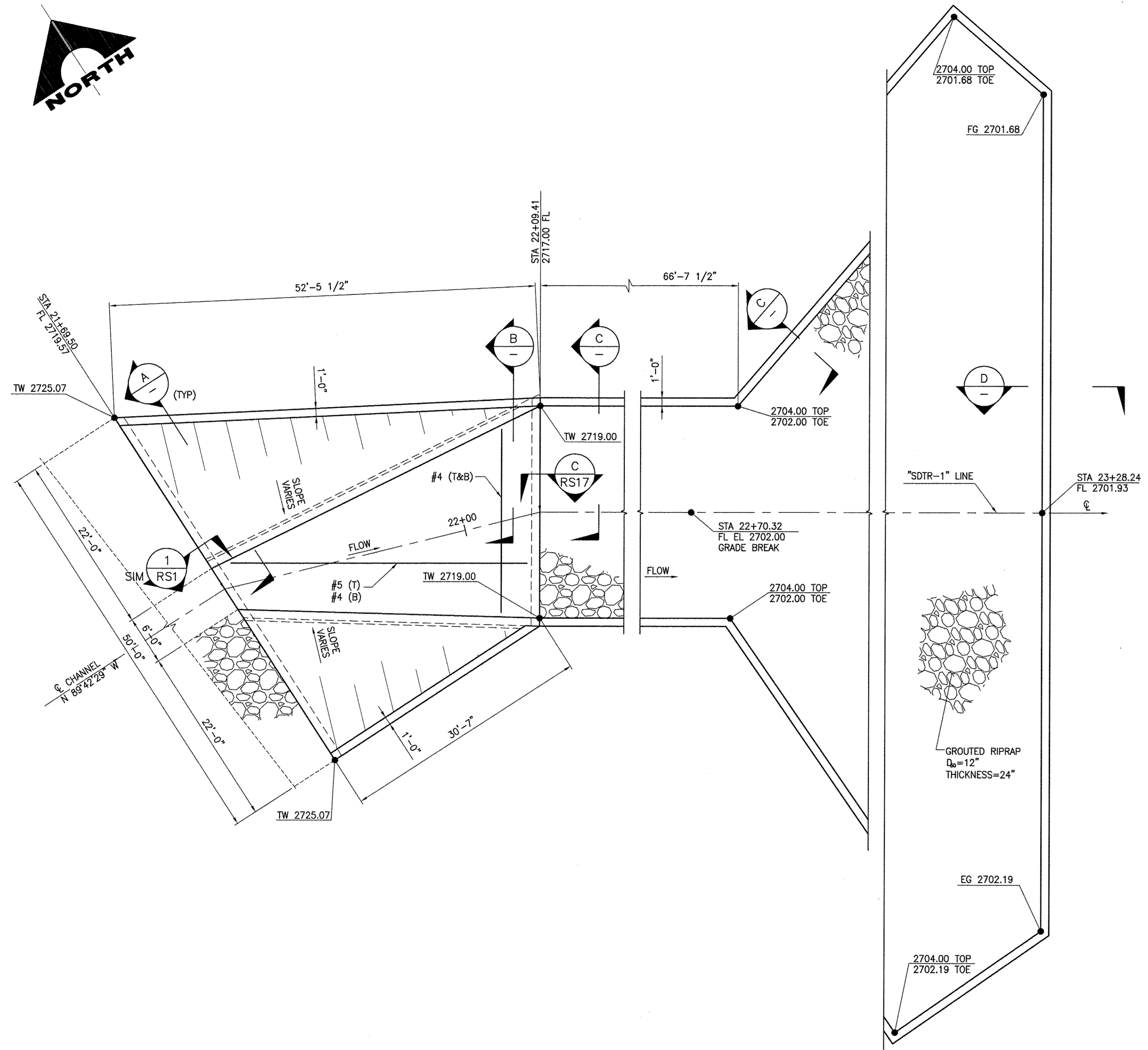
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDPD-1 AND SDLM-1 DUAL IMPACT STILLING BASIN  
STA 18+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: JMH/ADL  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

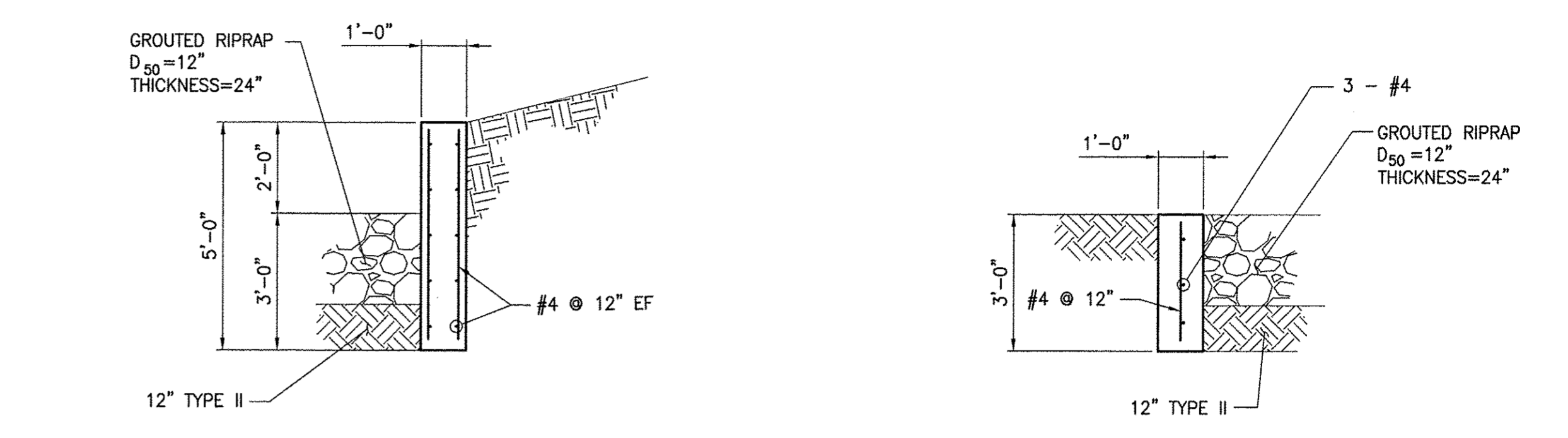
SCALE  
HORIZ: NONE  
VERT: NONE  
FIELD BOOK  
CCPW PROJECT #  
W.O. #: 2008-62

DRAWING NO.  
**RS15**  
SHT. 583 OF 600



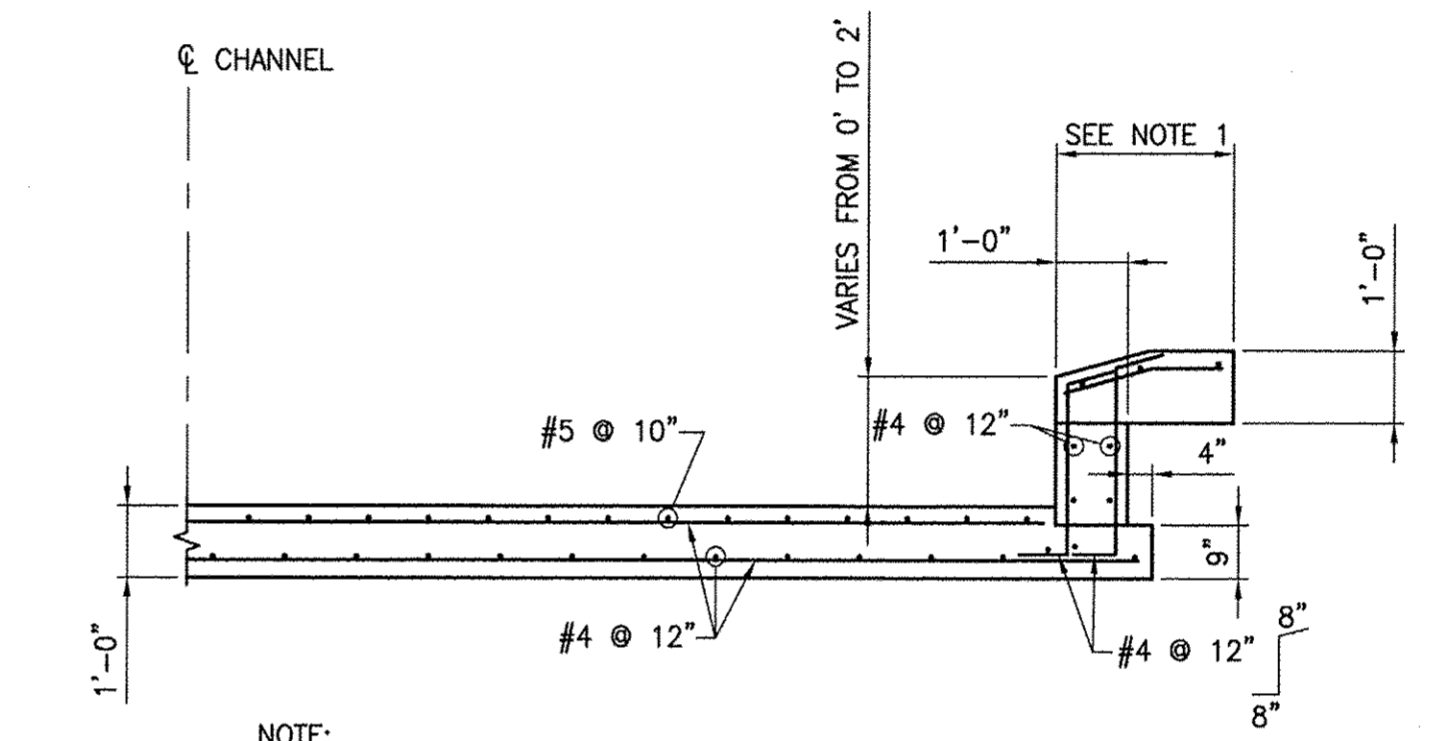
**1 PLAN - TRAPEZOIDAL CHANNEL**  
SCALE: 1/8" = 1'-0"

REF DWG: RSD2A, RSD13, RSD26

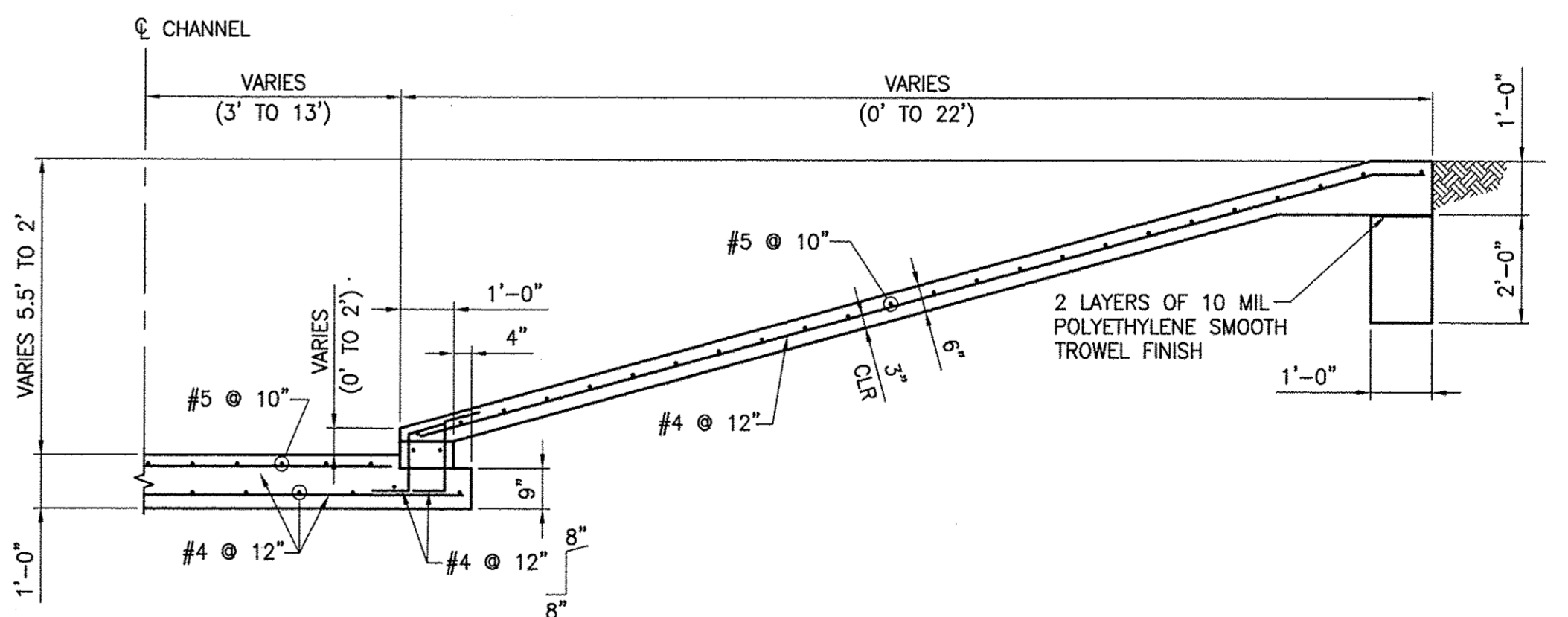


**C SECTION**  
SCALE: 3/8" = 1'-0"

**D SECTION**  
SCALE: 3/8" = 1'-0"

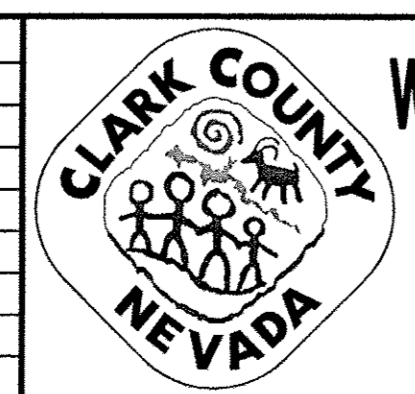


**B SECTION**  
SCALE: 3/8" = 1'-0"

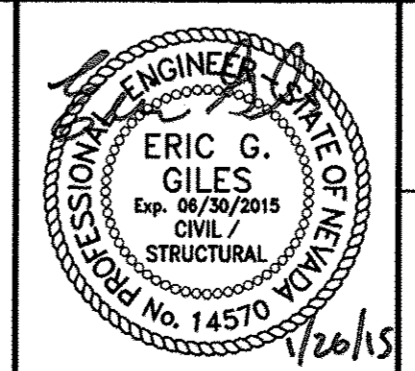


**A SECTION**  
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDTR-1 CHANNEL DROP STRUCTURE  
STA 21+69.50 TO STA 22+09.41  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

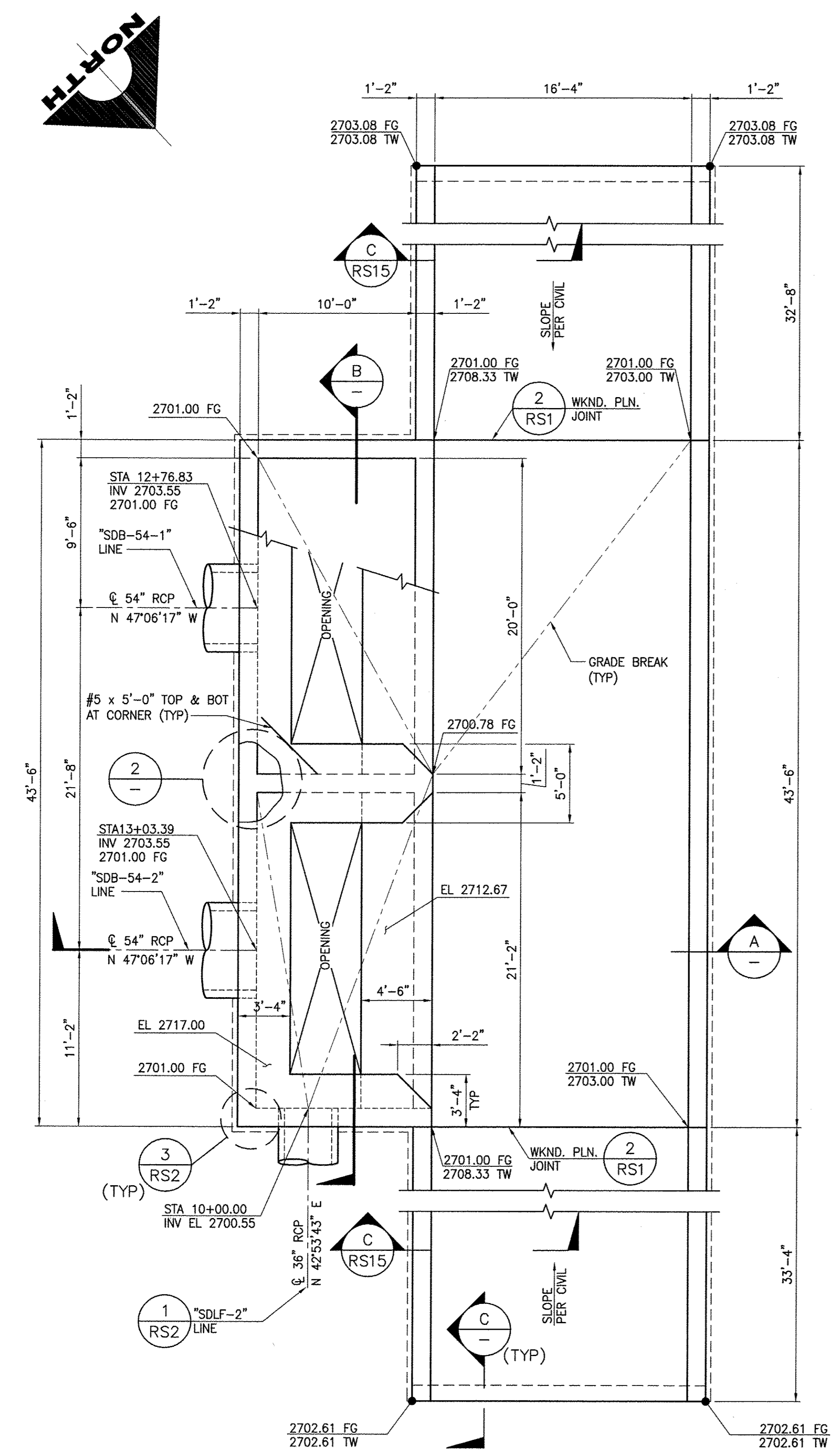


PROJECT No: 451.002.001 DRAWN BY: FAM/JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

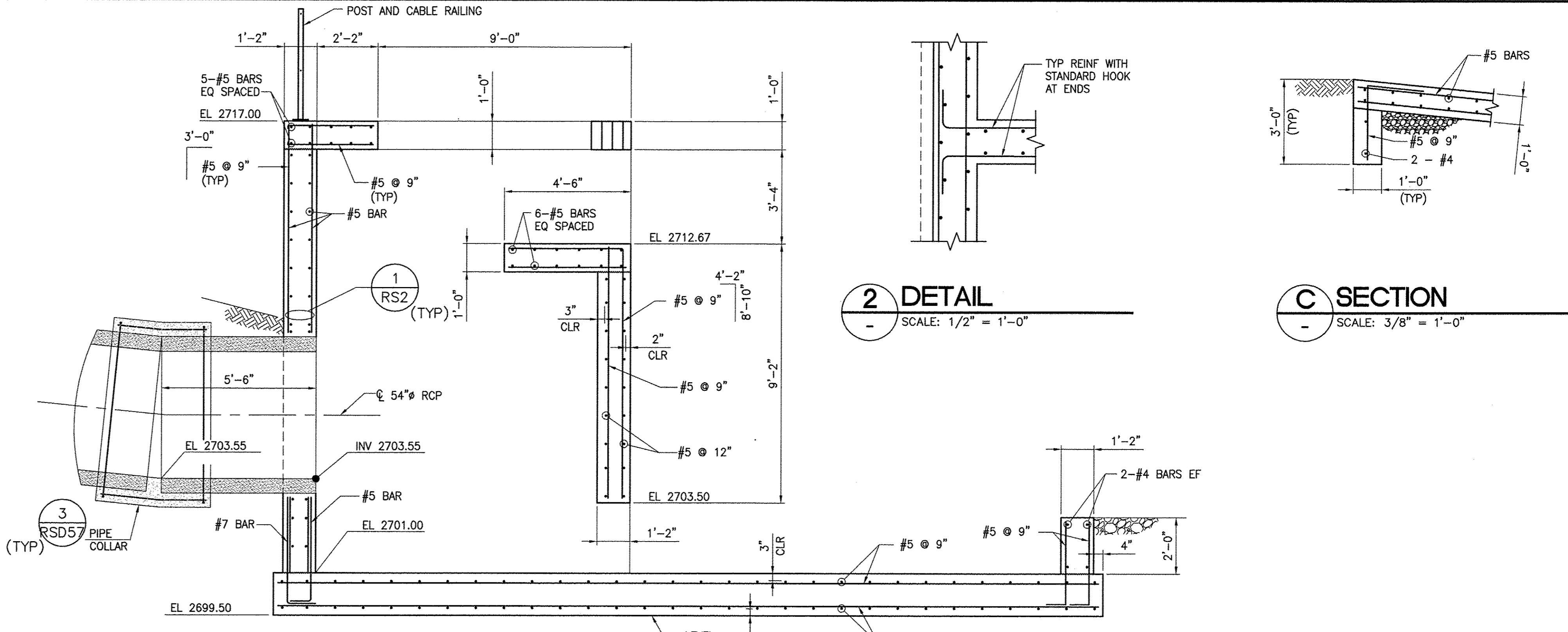
SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS16	
SHT. 584	OF 600

BID NO. 603576-15



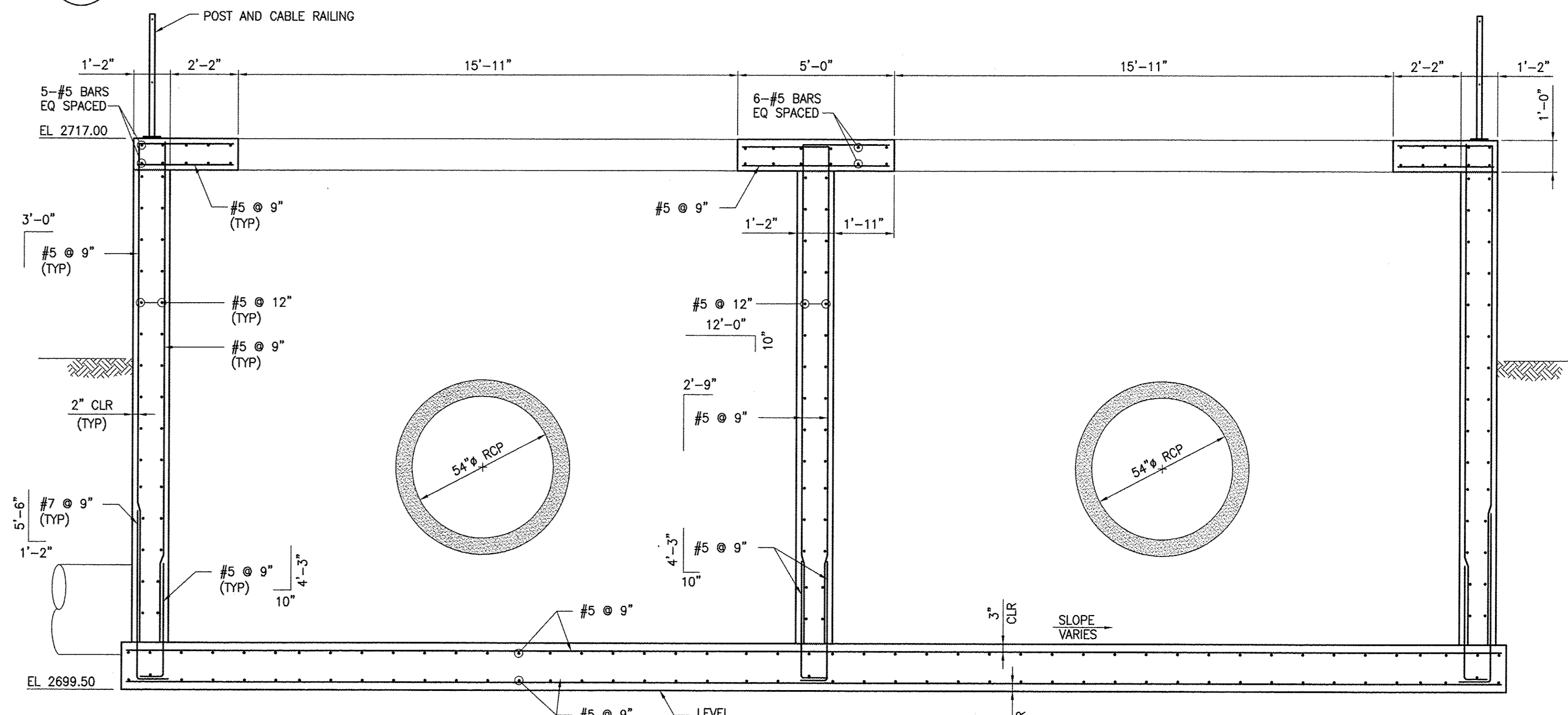
**1 PLAN - STILLING BASIN**  
SCALE: 3/16" = 1'-0"  
REF DWG: RSD2A, RSD14



**A SECTION**  
SCALE: 3/8" = 1'-0"

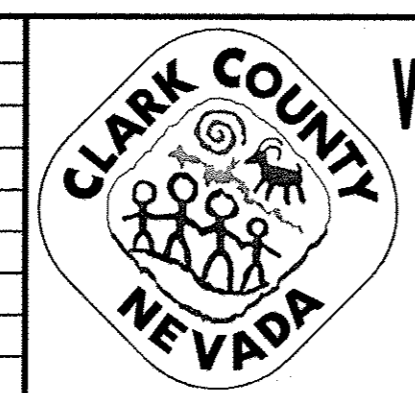
**2 DETAIL**  
SCALE: 1/2" = 1'-0"

**C SECTION**  
SCALE: 3/8" = 1'-0"



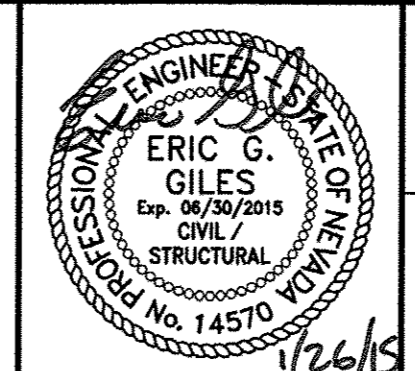
**B SECTION**  
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**SDB-54-1 AND SDB-54-2 DUAL IMPACT STILLING BASIN**

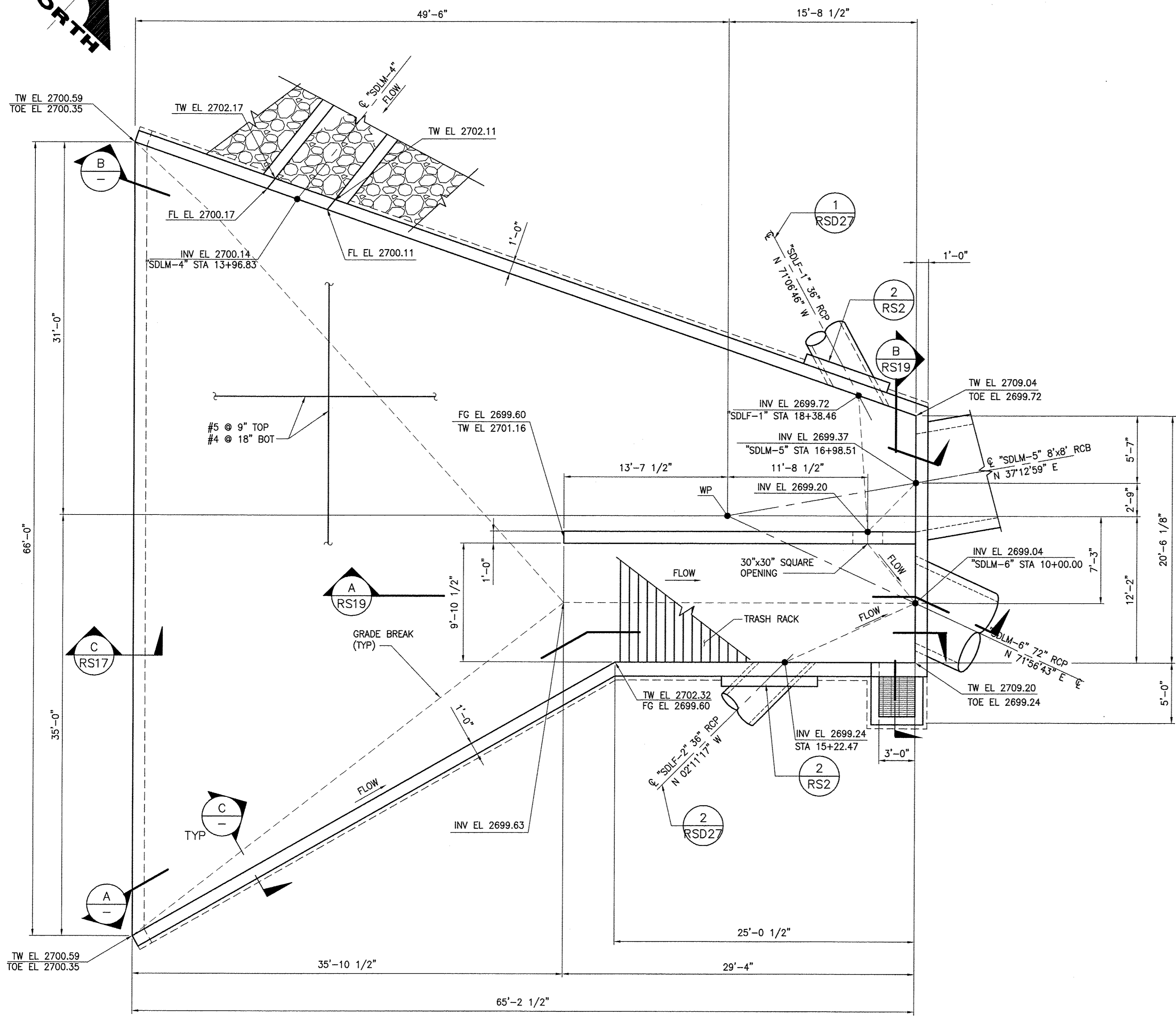
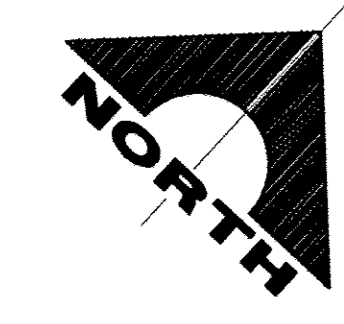
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: JMH/ADL  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

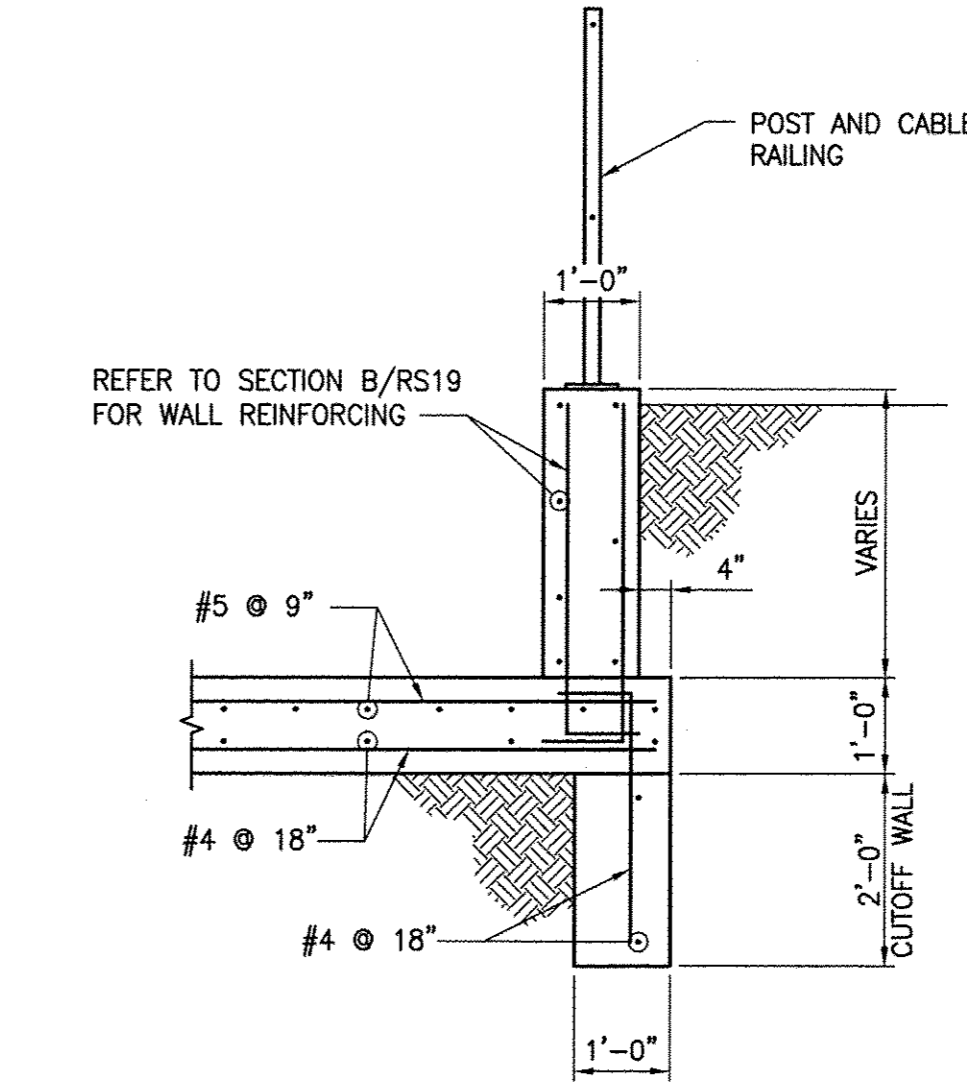
SCALE  
HORIZ: NONE  
VERT: NONE  
FIELD BOOK  
CCPW PROJECT #  
W.O. #: 2008-62

DRAWING NO.  
**RS17**  
SHT. 585 OF 600

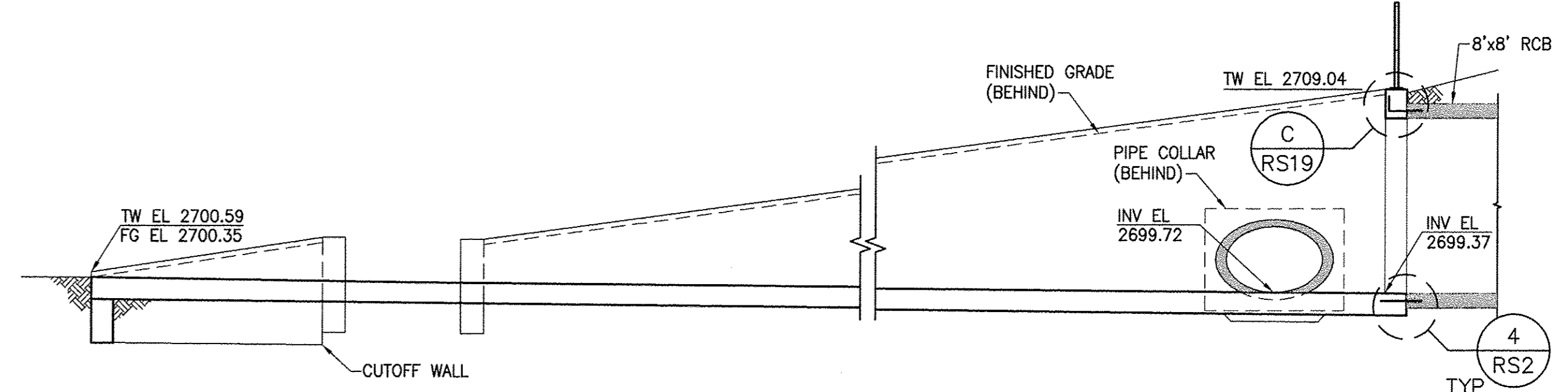


**1 PLAN - TRAPEZOIDAL CHANNEL**  
SCALE: 3/16" = 1'-0"

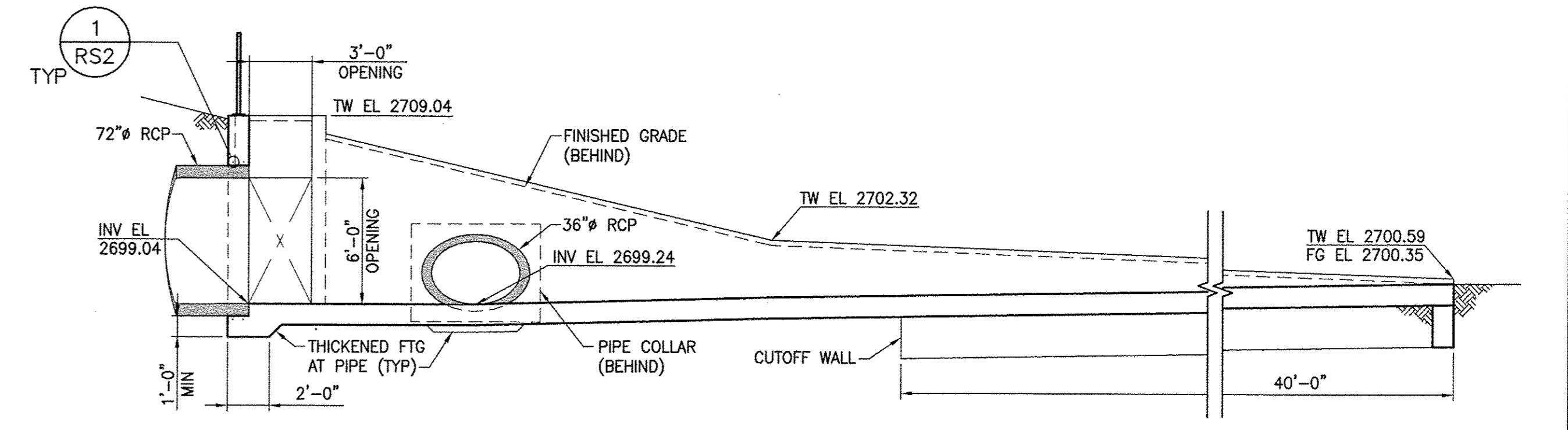
REF DWG: RSD2A, RSD12



**C SECTION**  
SCALE: 1/2" = 1'-0"

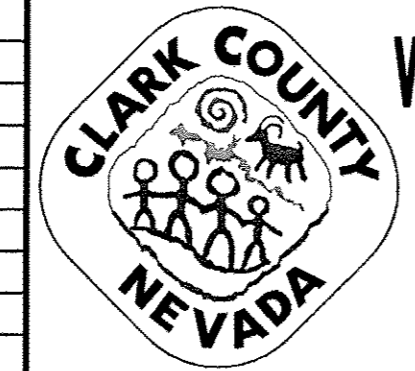


**B WALL ELEVATION**  
SCALE: 3/16" = 1'-0"

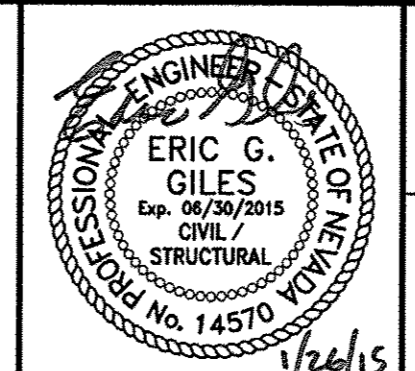


**A WALL ELEVATION**  
SCALE: 3/16" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDLM-6 SOUTH BASIN OUTFALL/INLET STRUCTURE  
STA 10+00.00  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

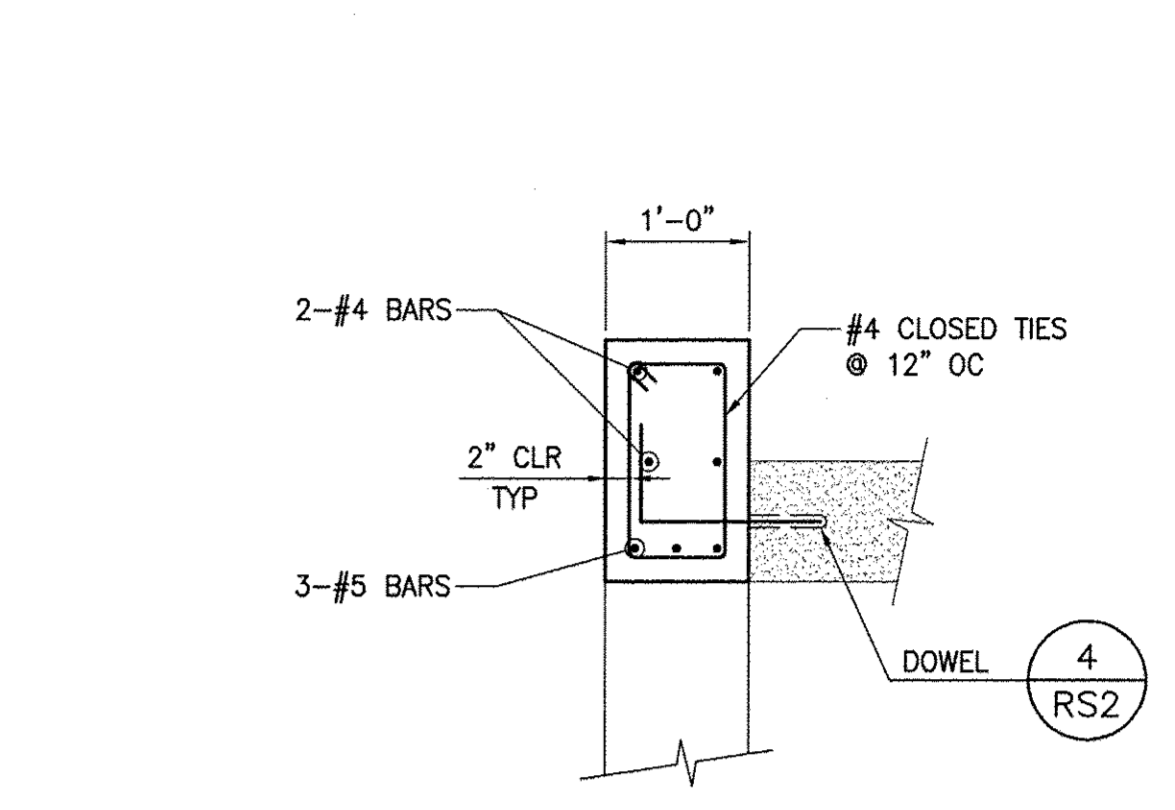
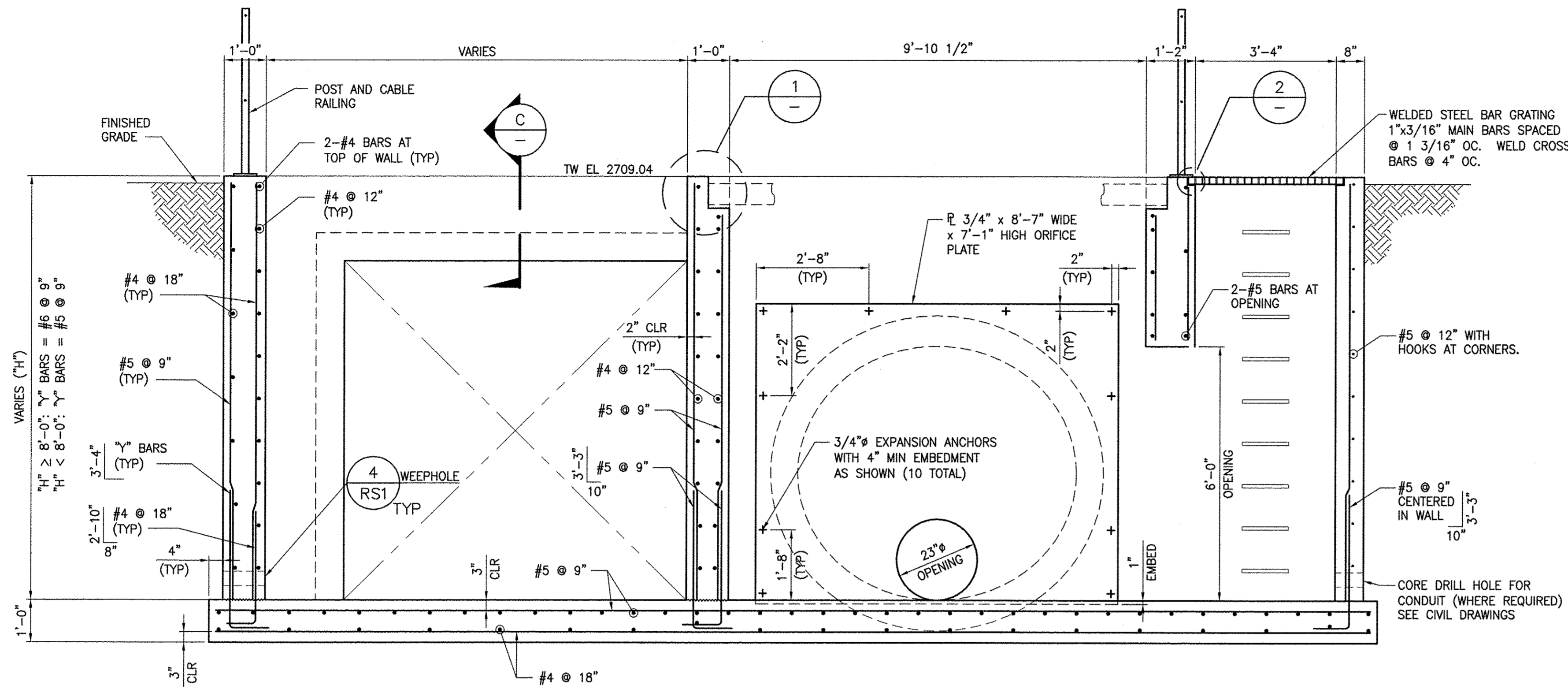


PROJECT No: 451.002.001 DRAWN BY: FAM  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 586 OF 600
CCPW PROJECT #	2008-62	

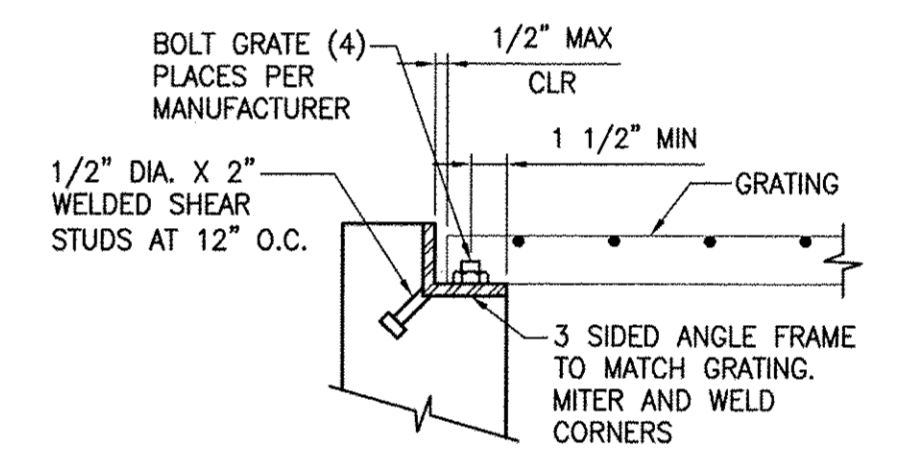
BID NO. 603576-15



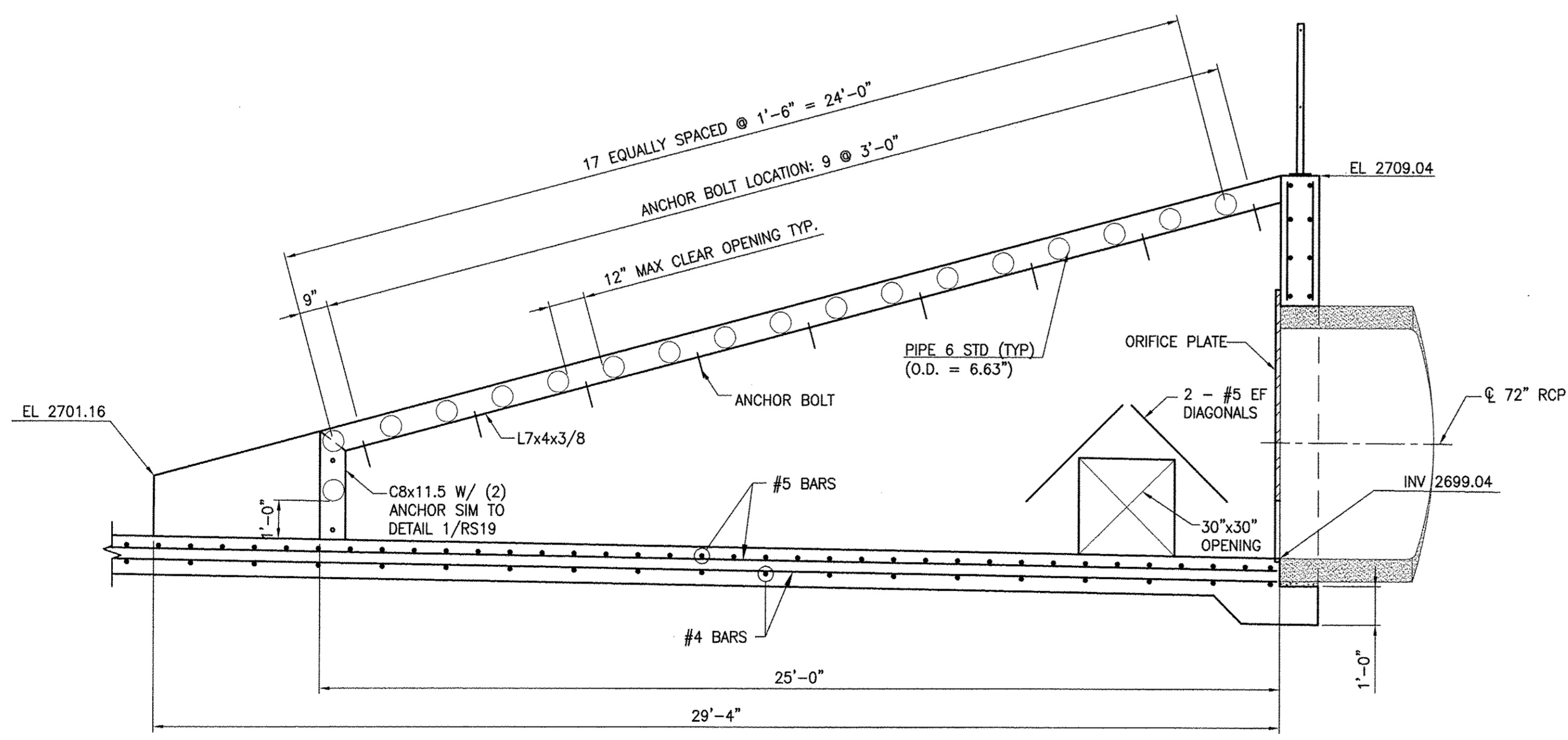


**C SECTION**  
SCALE: 3/4" = 1'-0"

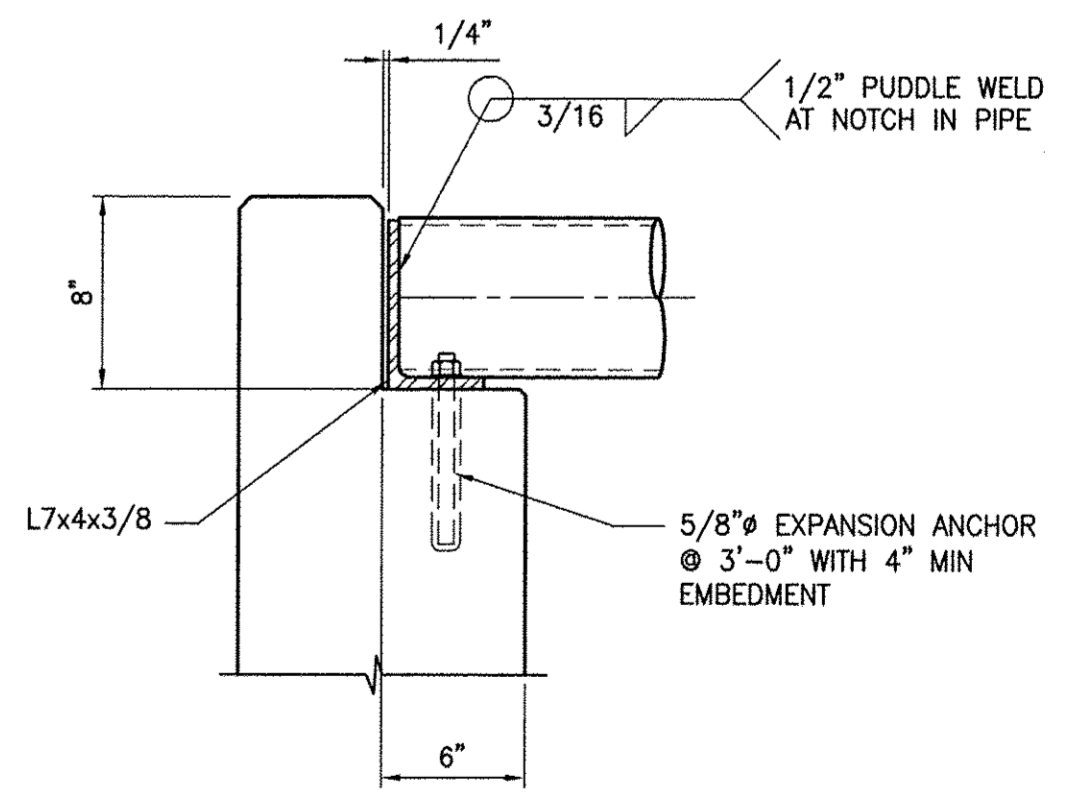
**B SECTION**  
SCALE: 1/2" = 1'



**2 DETAIL**  
SCALE: 1 1/2" = 1'-0"

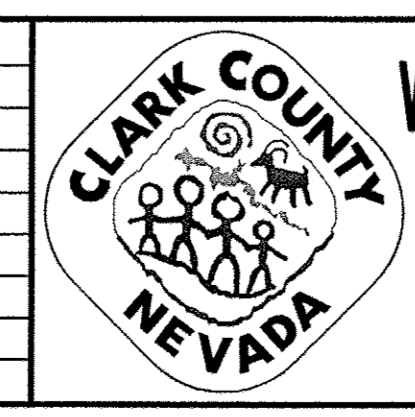


**A SECTION**  
SCALE: 3/8" = 1'-0"

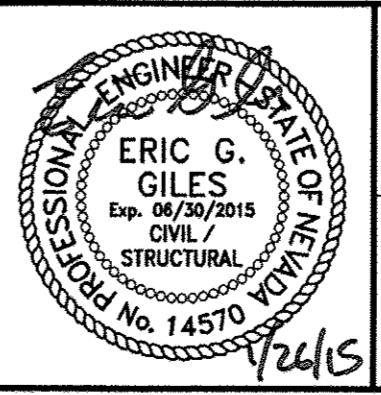


**1 DETAIL**  
SCALE: 1 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**SDLM-6 OUTFALL/INLET STRUCTURE**  
**DETAILS**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

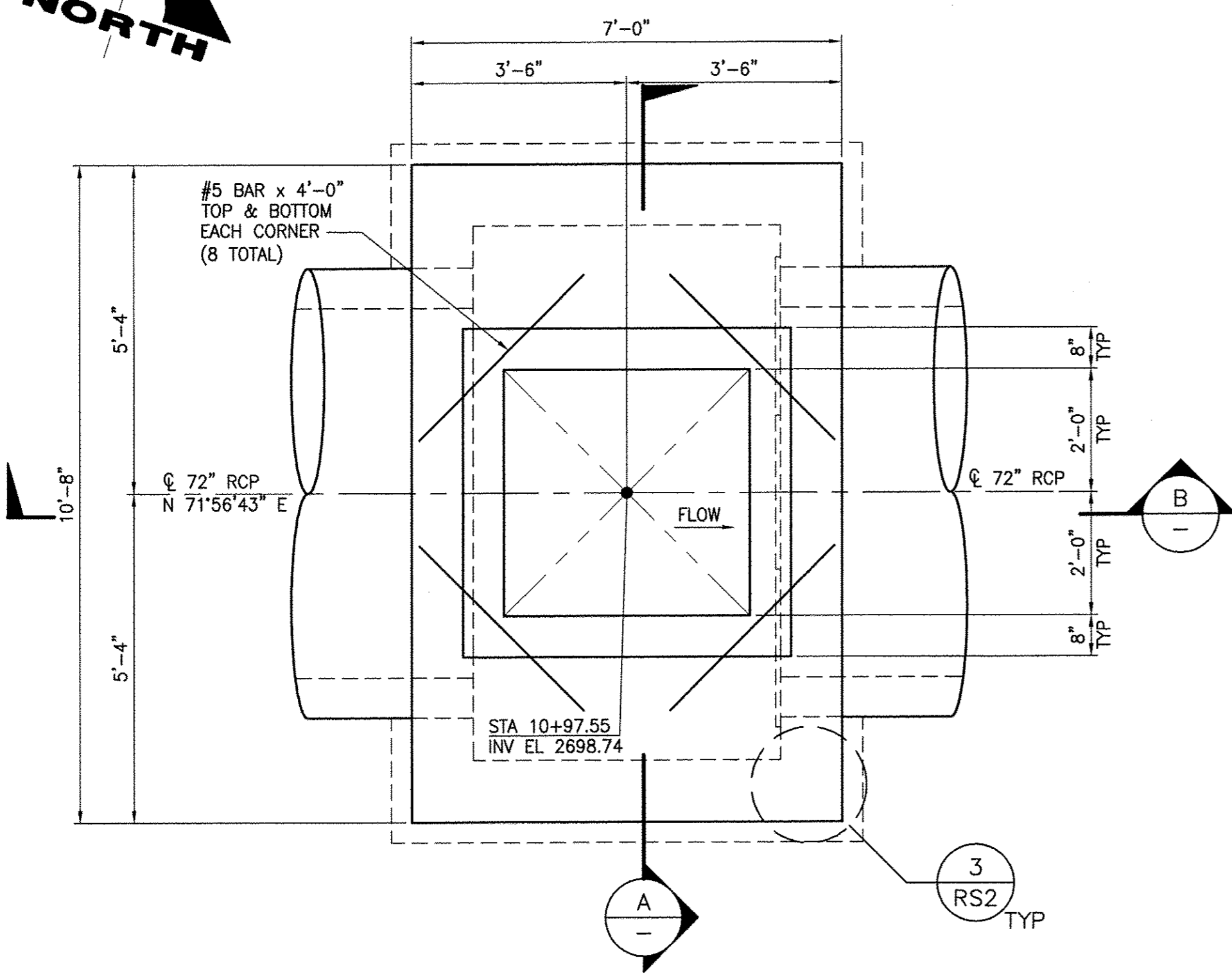


PROJECT No: 451.002.001 DRAWN BY: FAM  
 DESIGNED BY: FAM CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

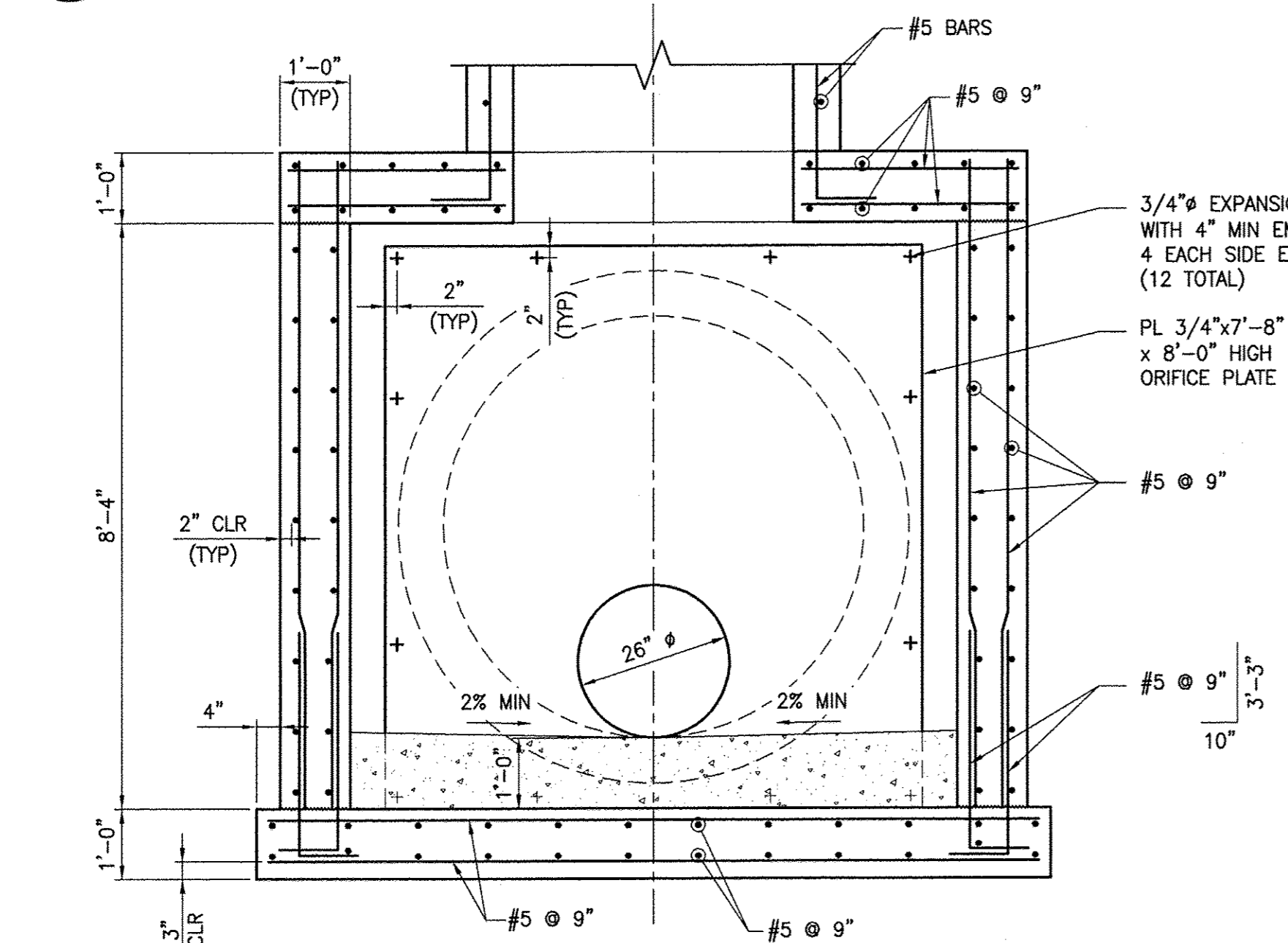
SCALE	
HORIZ:	NONE
VERT:	NONE
FIELD BOOK	
CCPW PROJECT #	
W.O. #:	2008-62

DRAWING NO.	
RS19	
SHT. 587	OF 600

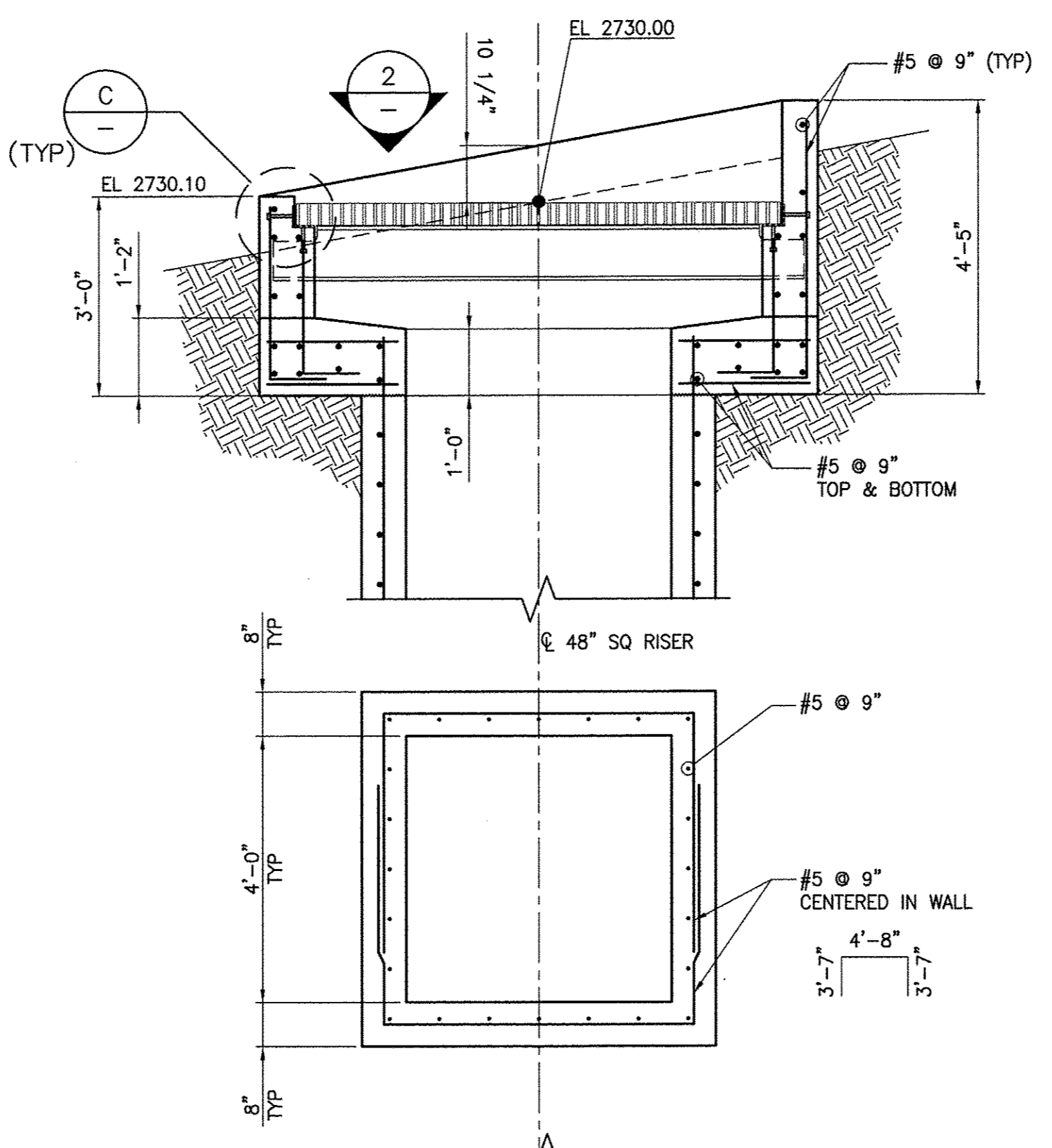
BID NO. 603576-15



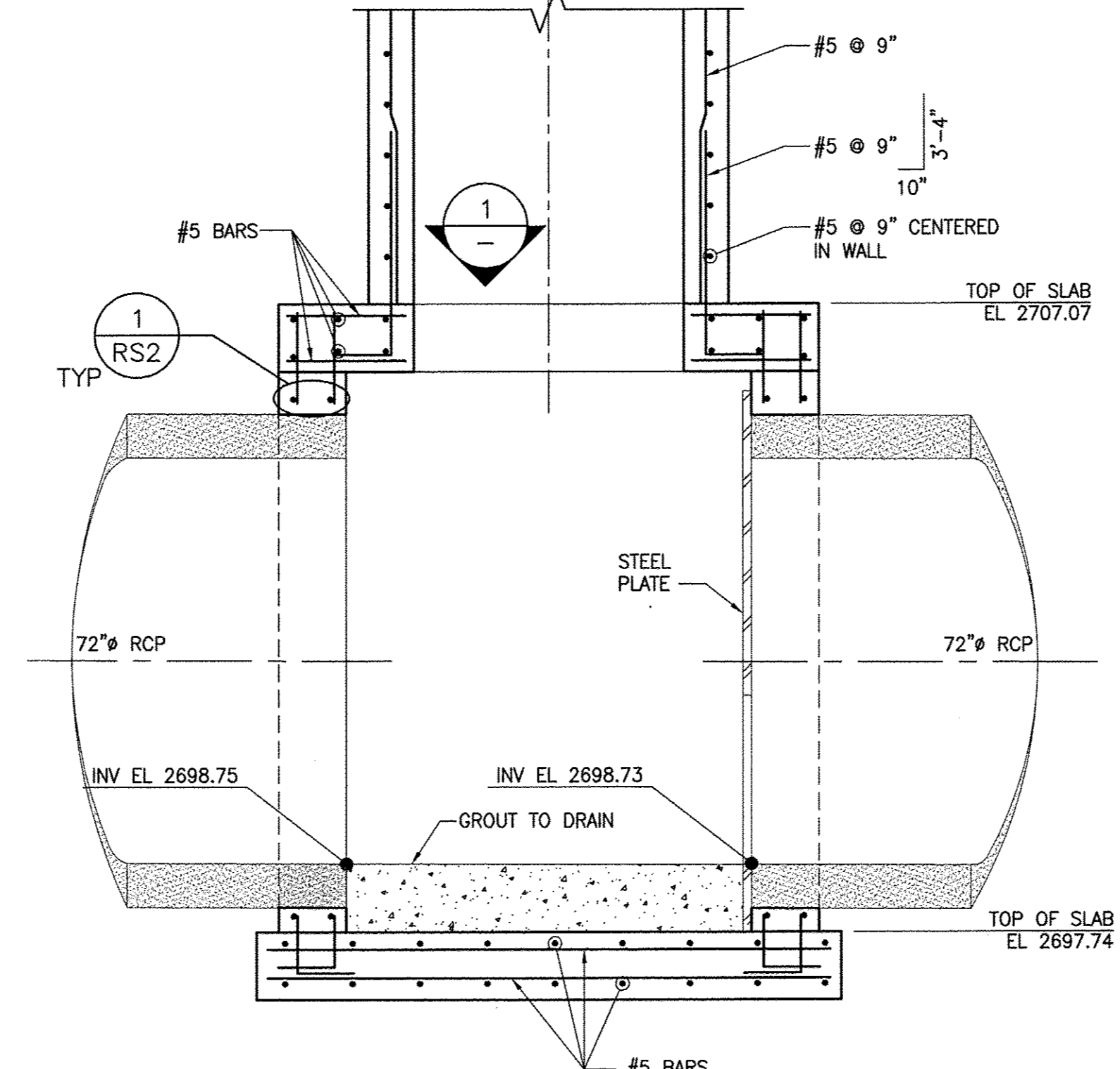
**1 PLAN (ROOF) - JUNCTION STRUCTURE**  
SCALE: 3/4" = 1'-0"  
REF DWG: RSD2A, RSD2C



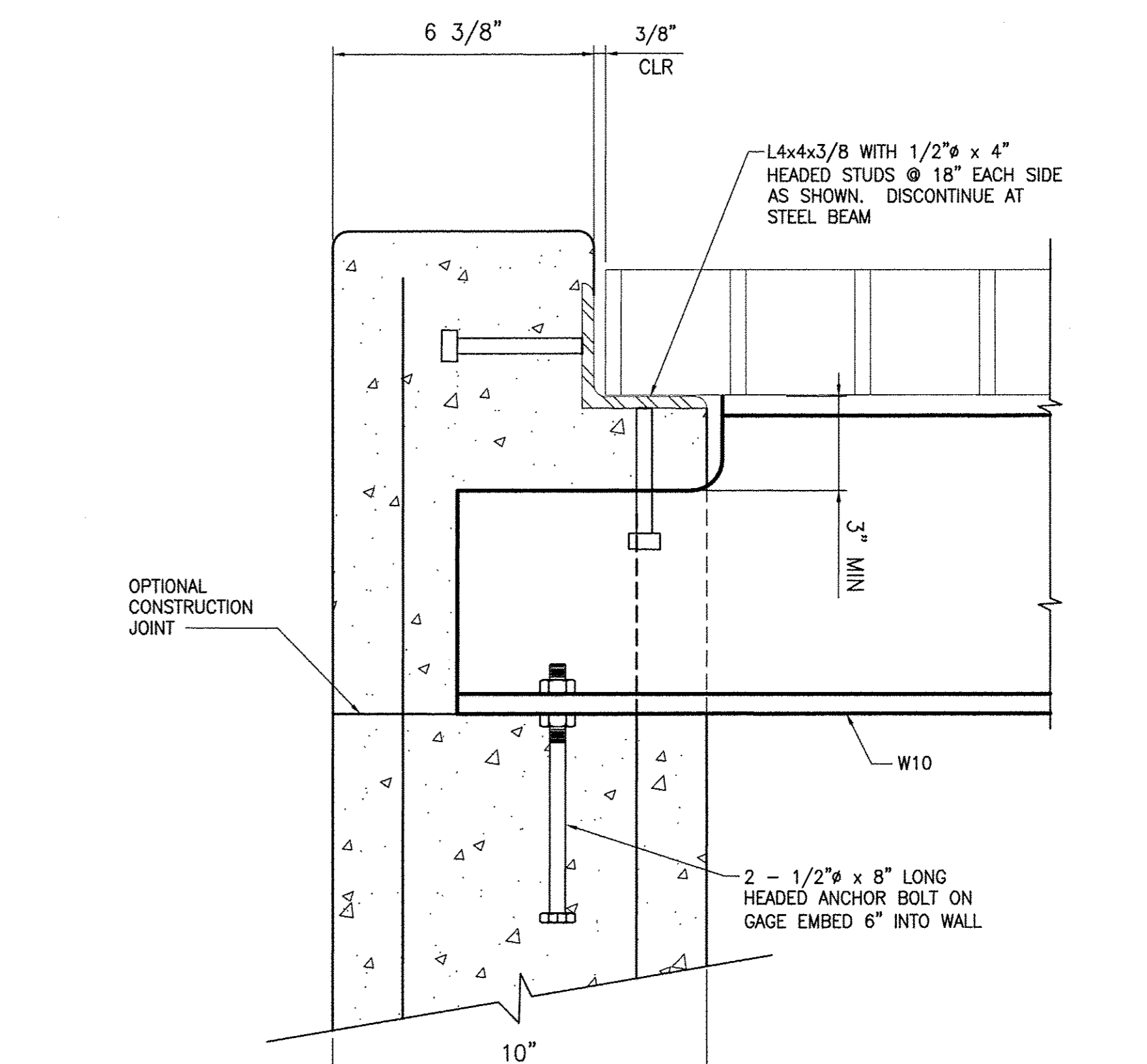
**A SECTION**  
SCALE: 1/2" = 1'-0"



**2 PLAN - GRATE**  
SCALE: 3/4" = 1'-0"

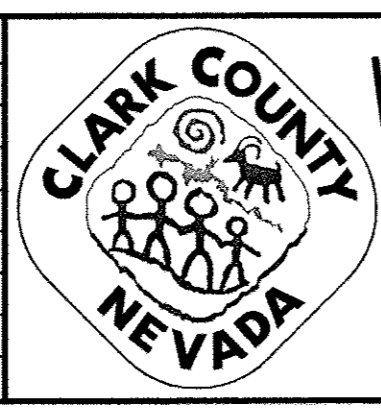


**B SECTION**  
SCALE: 1/2" = 1'-0"

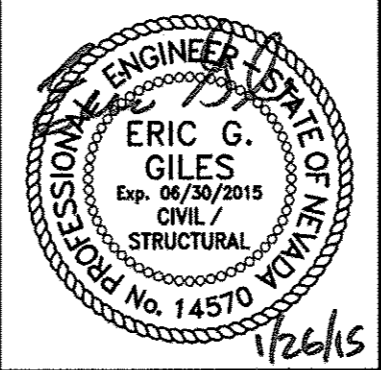


**C DETAIL**  
SCALE: 3" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



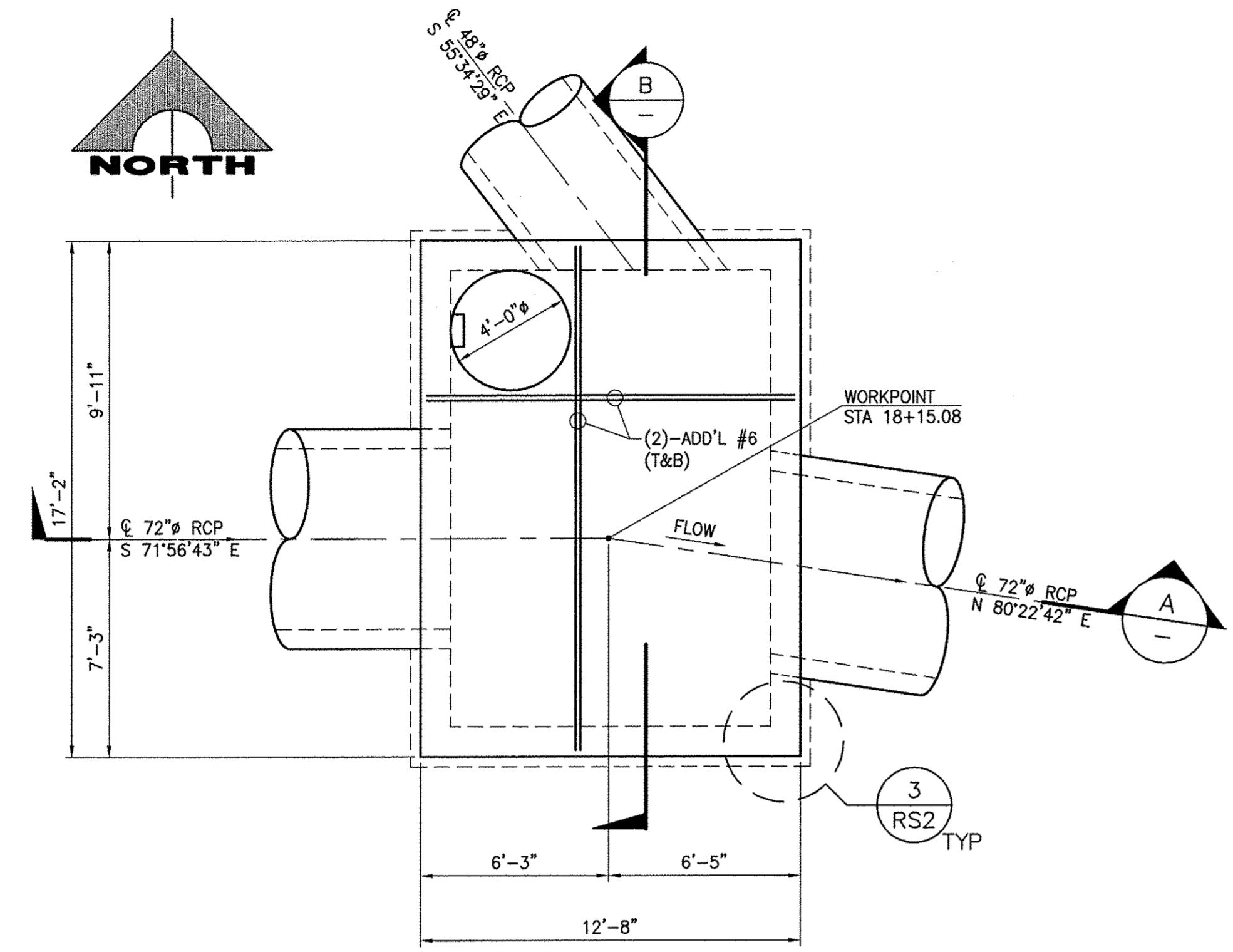
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**JUNCTION STRUCTURE W/ 20' RISER**  
**"SDLM-6" LINE - STA 10+97.55**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



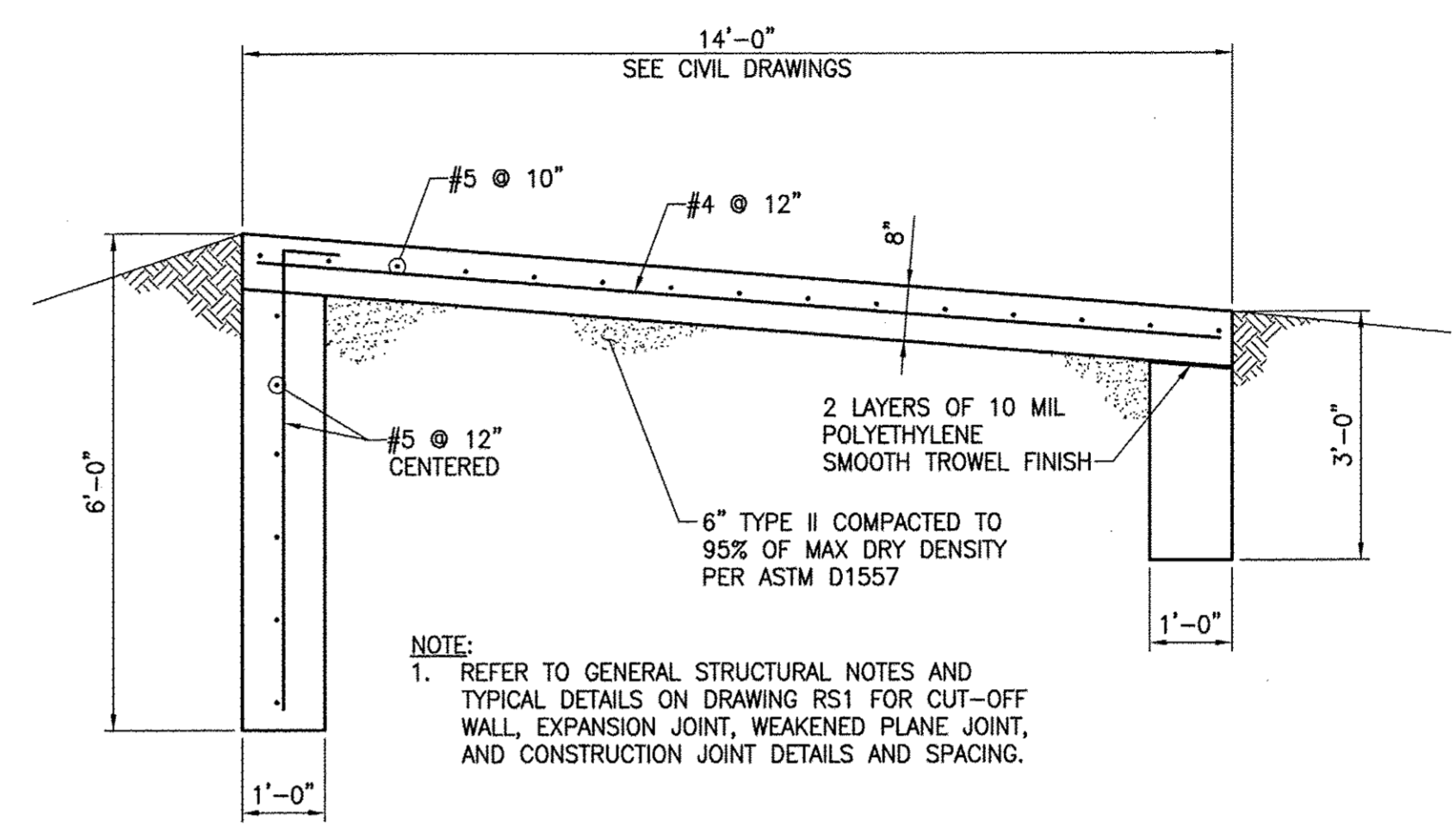
PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1355 S. RAINBOW BOULEVARD · LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 588 OF 600

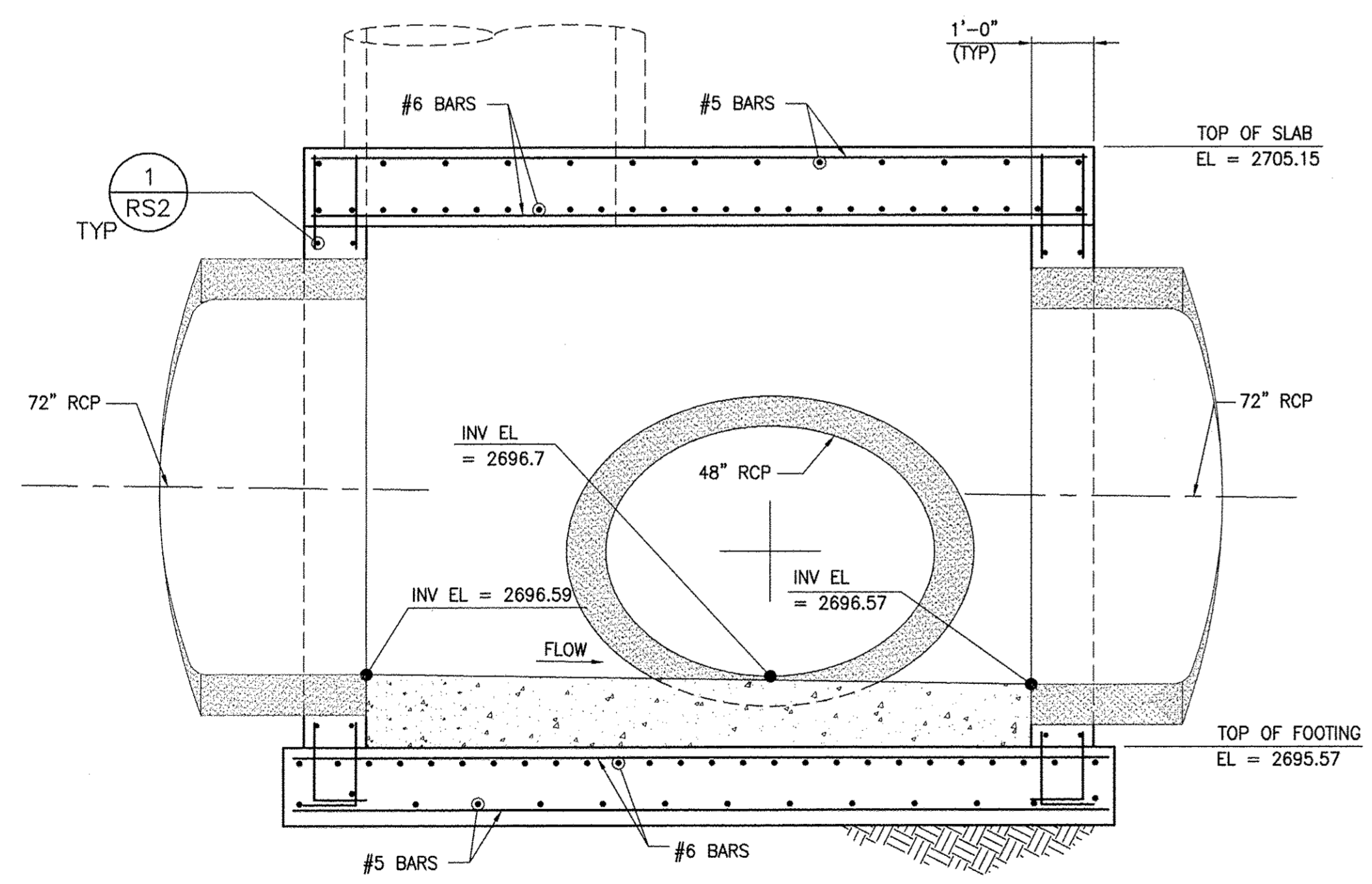
BID NO. 603576-15



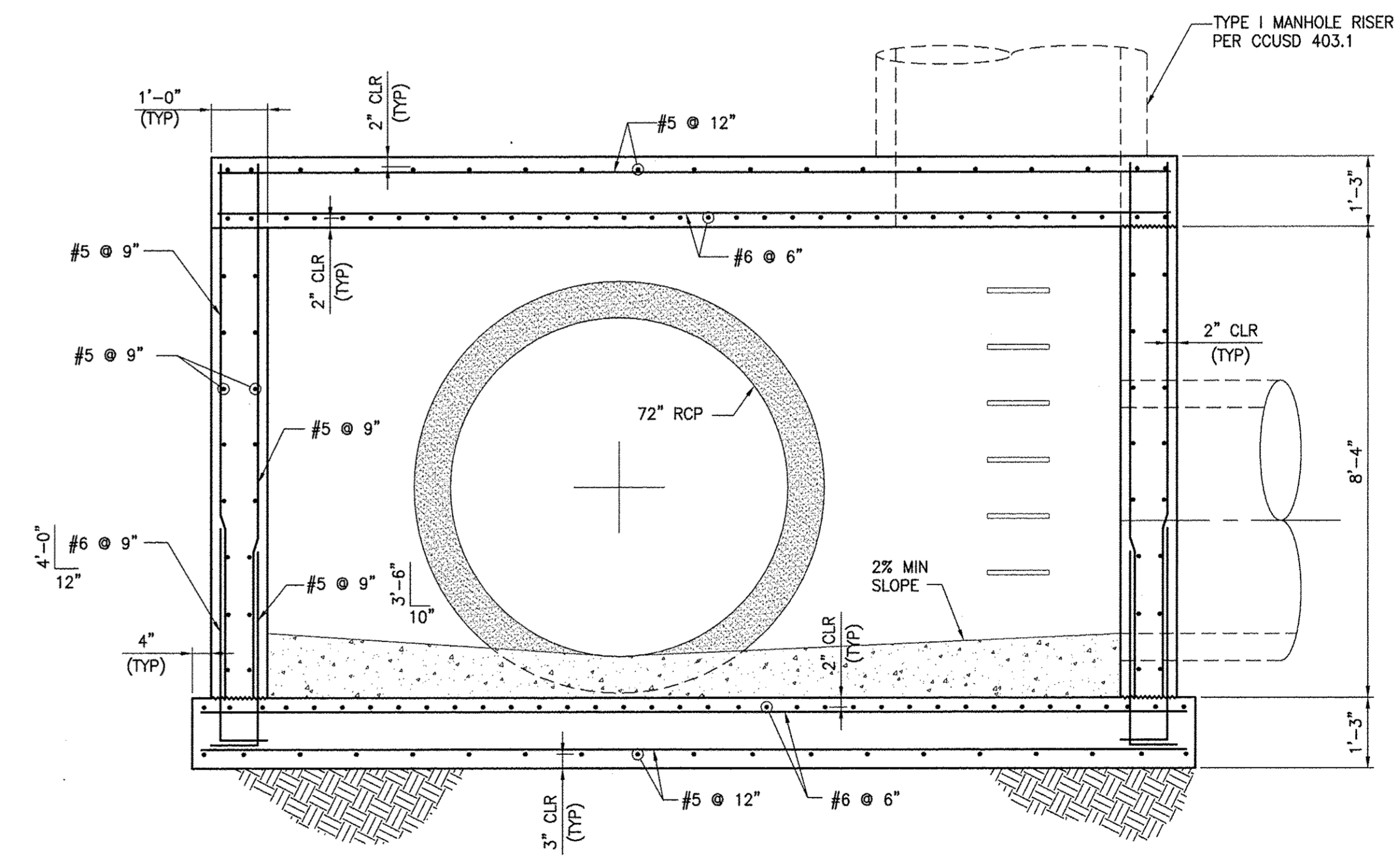
**1 PLAN (ROOF) - JUNCTION STRUCTURE**  
 SCALE: 1/4" = 1'-0"  
 REF DWG: RSD30



**2 SPILLWAY WEIR SECTION**  
 SCALE: NTS



**A SECTION**  
 SCALE: 1/2" = 1'-0"

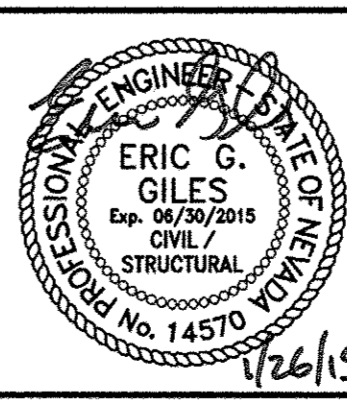


**B SECTION**  
 SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED

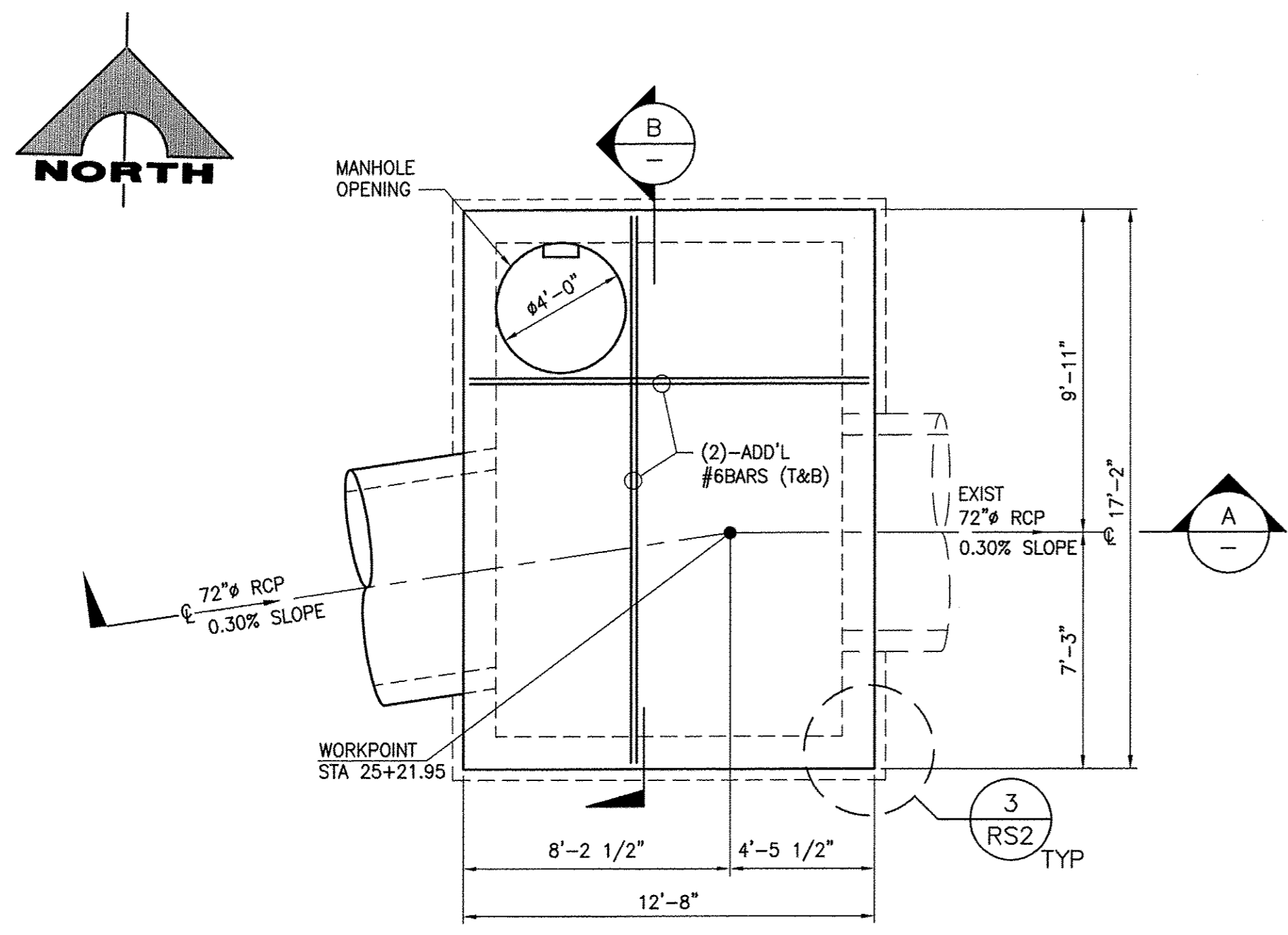


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 SDLM-6 JUNCTION BOX  
 AT STA 18+15.08  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

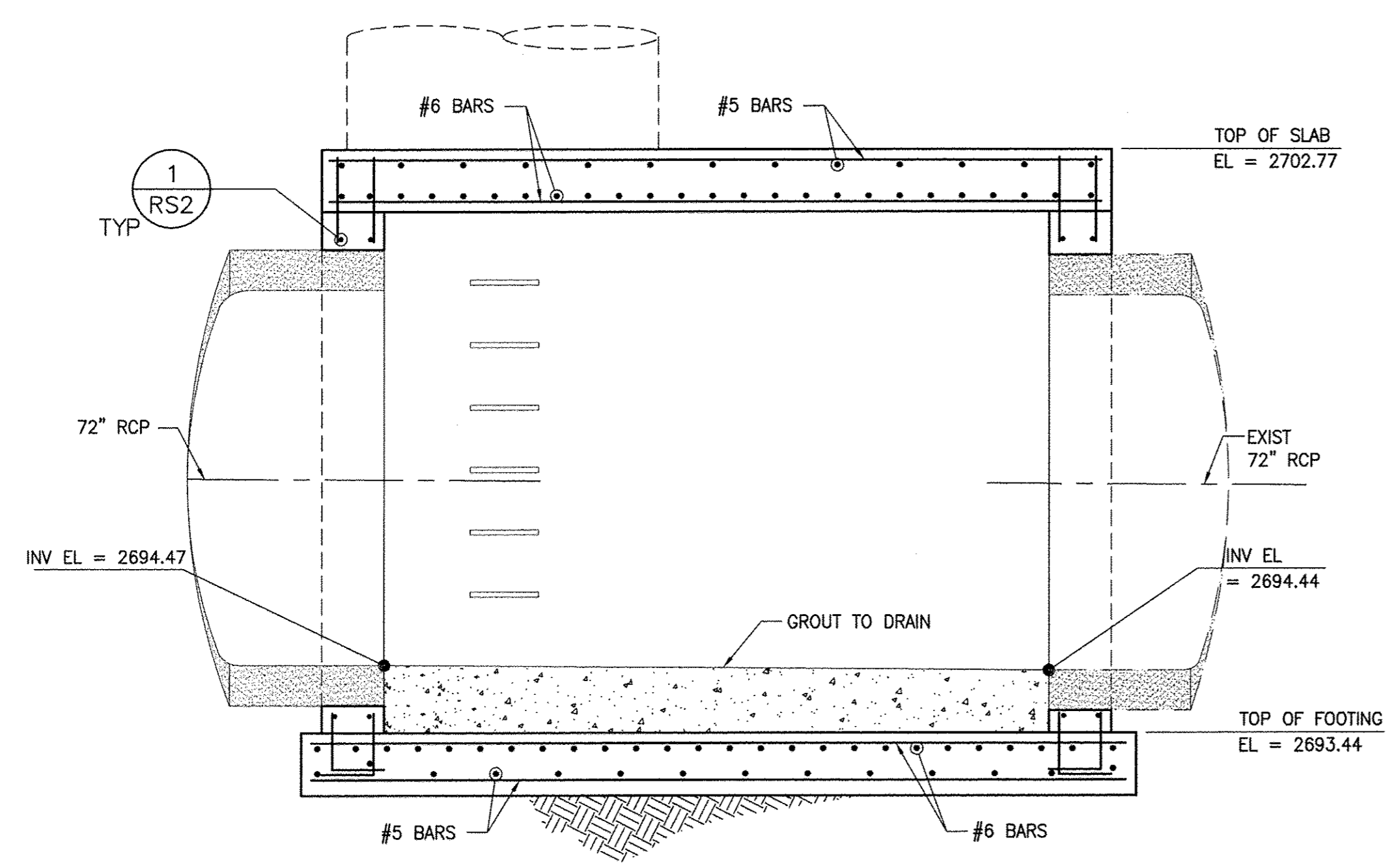


PROJECT No: 451.002.001 DRAWN BY: CAB  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

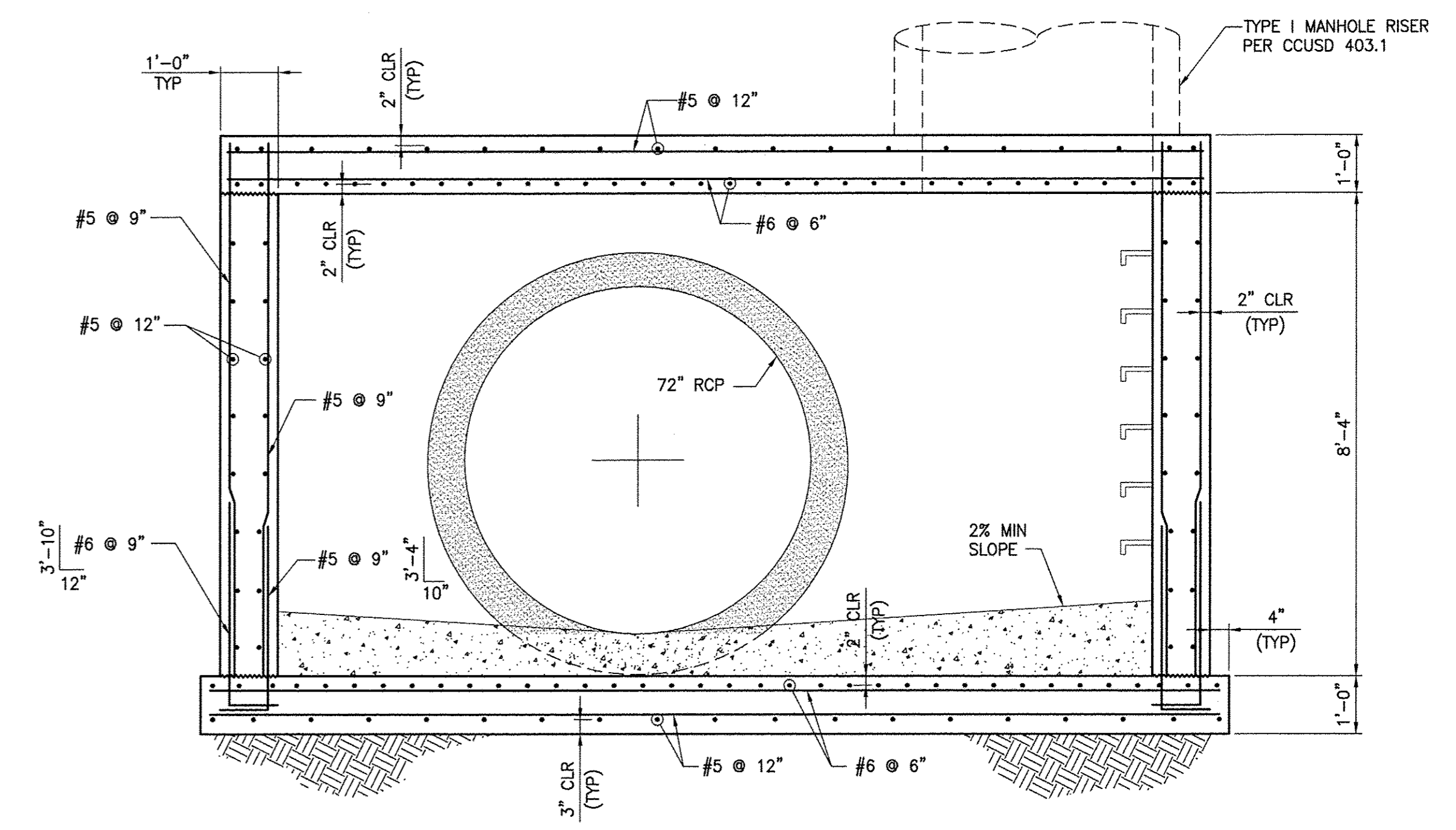
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 589 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	



**1 ROOF PLAN**  
SCALE: 1/4" = 1'-0"  
REF DWG: RSD30



**A SECTION**  
SCALE: 1/2" = 1'-0"

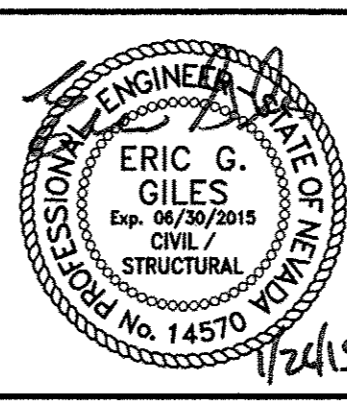


**B SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED

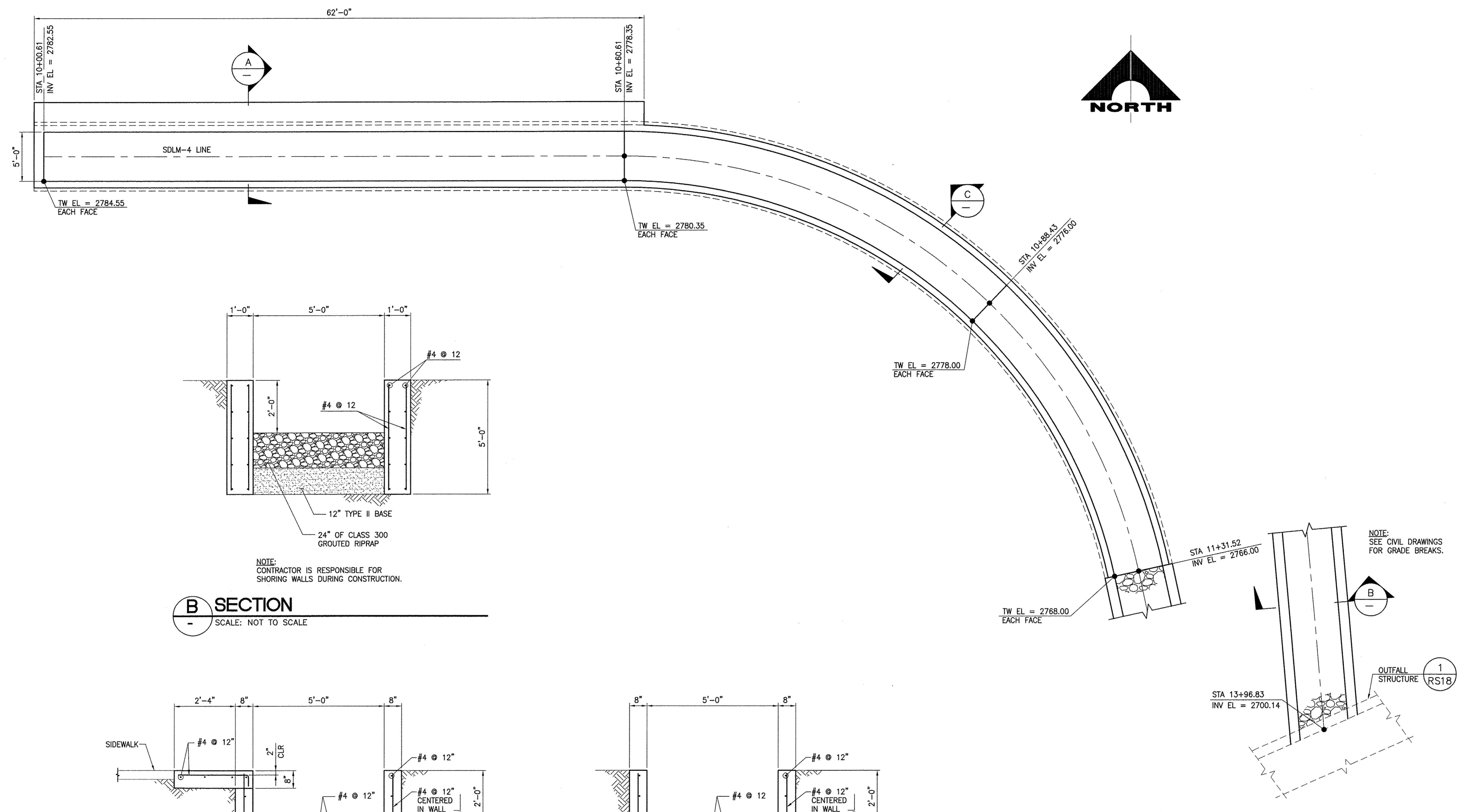
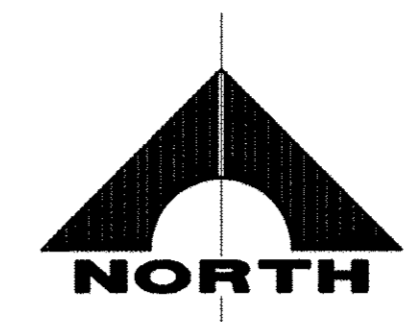


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDLM-6 JUNCTION BOX  
AT STA 25+21.95  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: CAB  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 590 OF 600
CCPW PROJECT #	W.O. #: 2008-62	



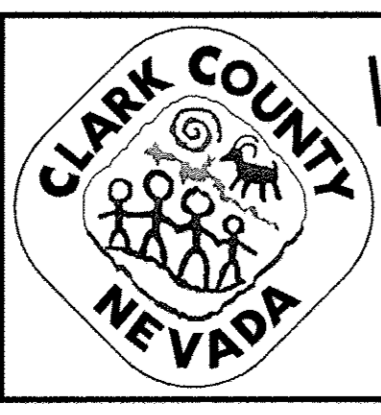
**B SECTION**  
SCALE: NOT TO SCALE

**A SECTION**  
SCALE: 1/2" = 1'-0"

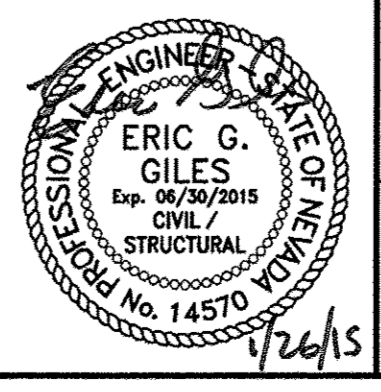
**C SECTION**  
SCALE: 1/2" = 1'-0"

**1 PLAN - CONCRETE FLUME**  
SCALE: 3/16" = 1'-0" REF DWG: RSD2A

REV. NO.	DATE	DESCRIPTION	APPROVED



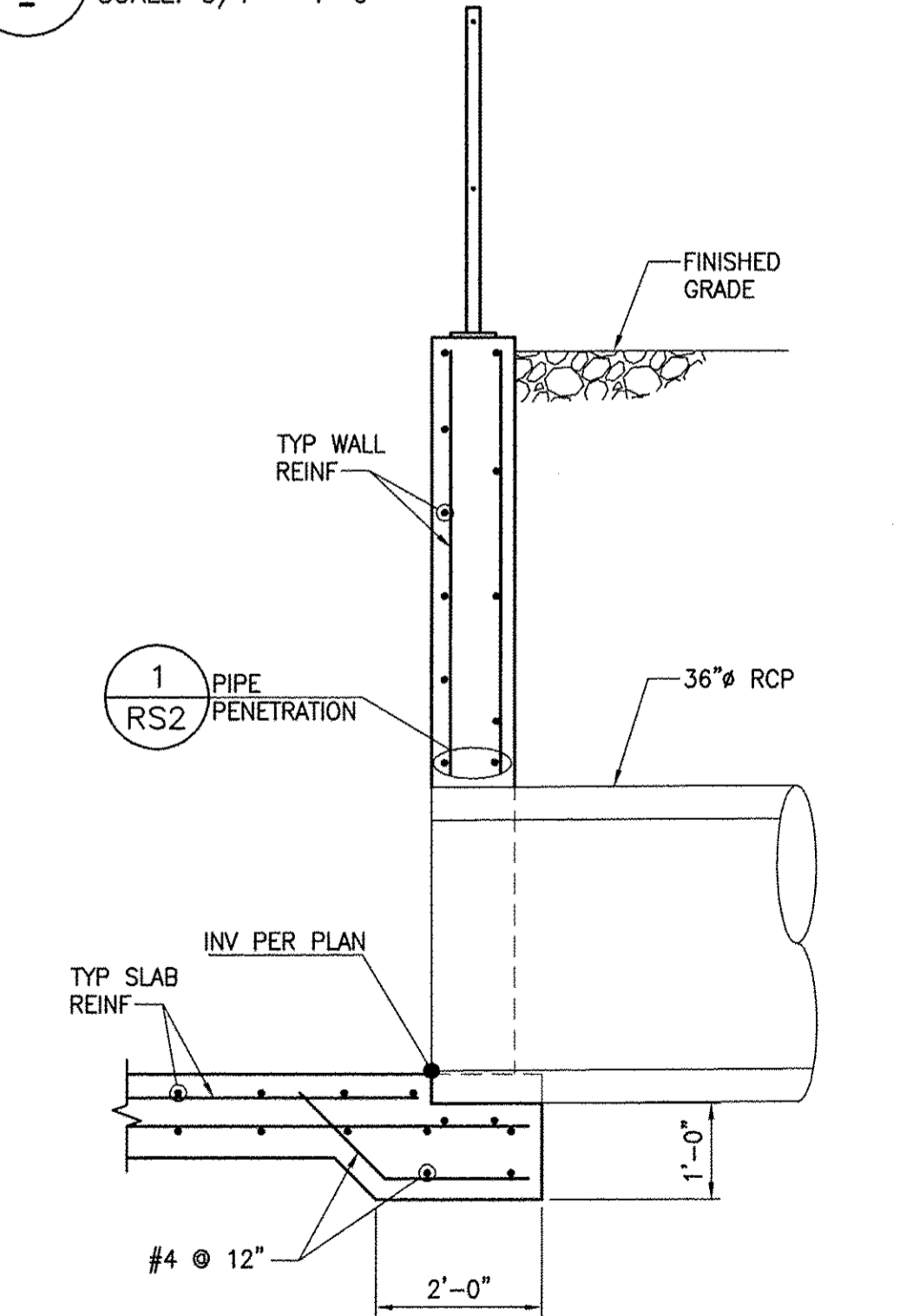
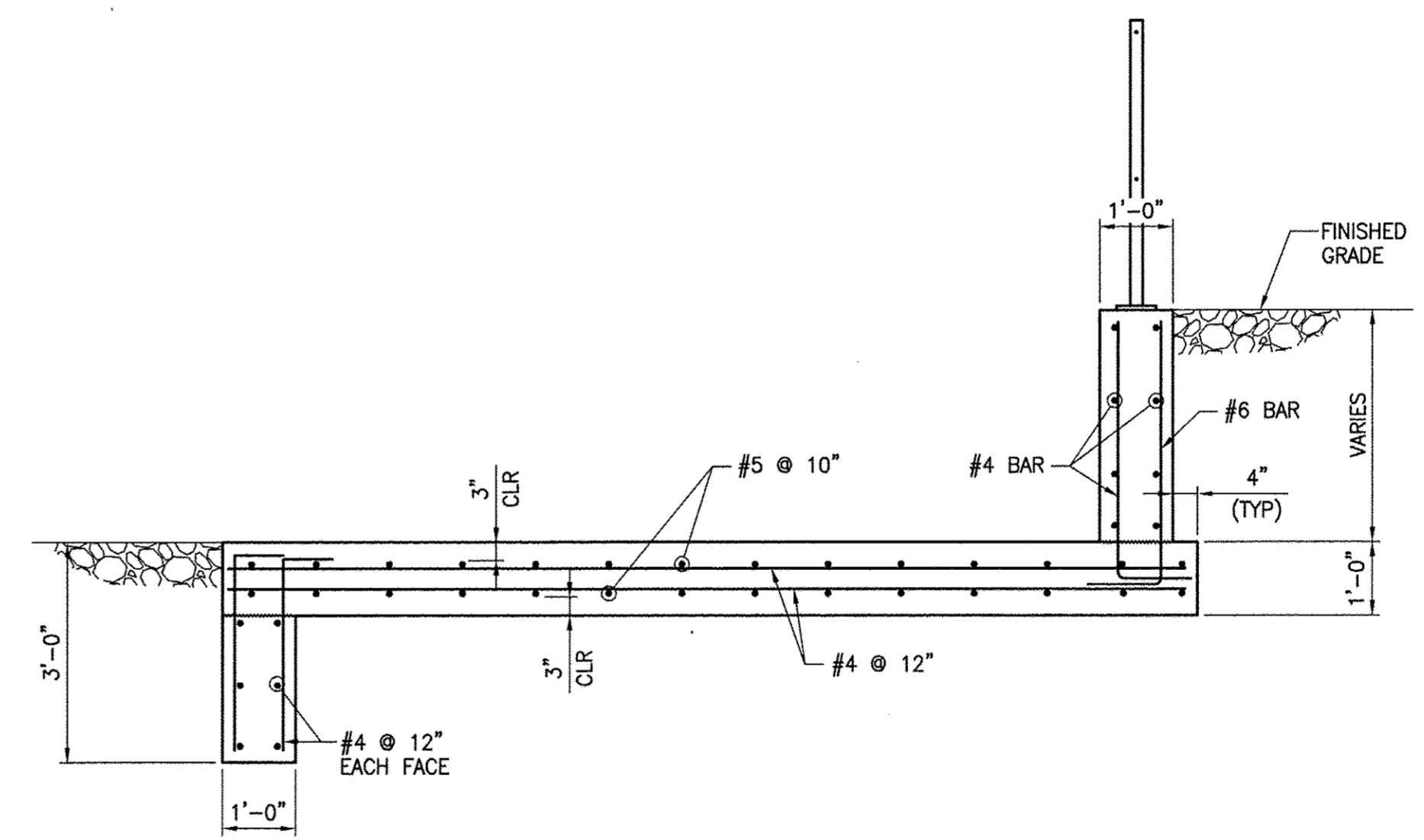
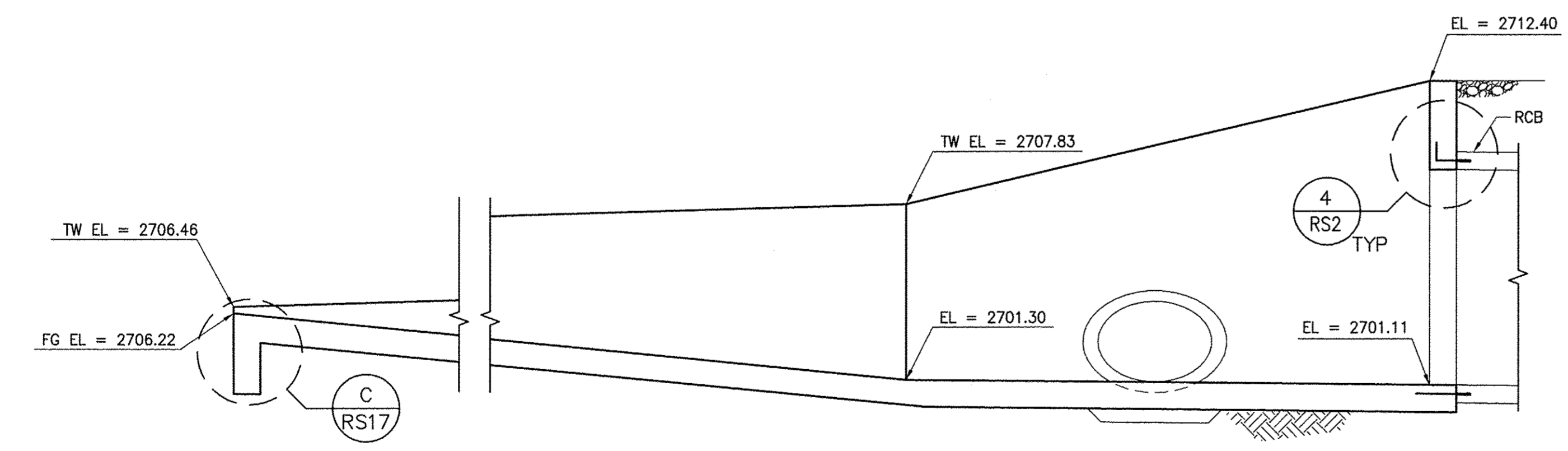
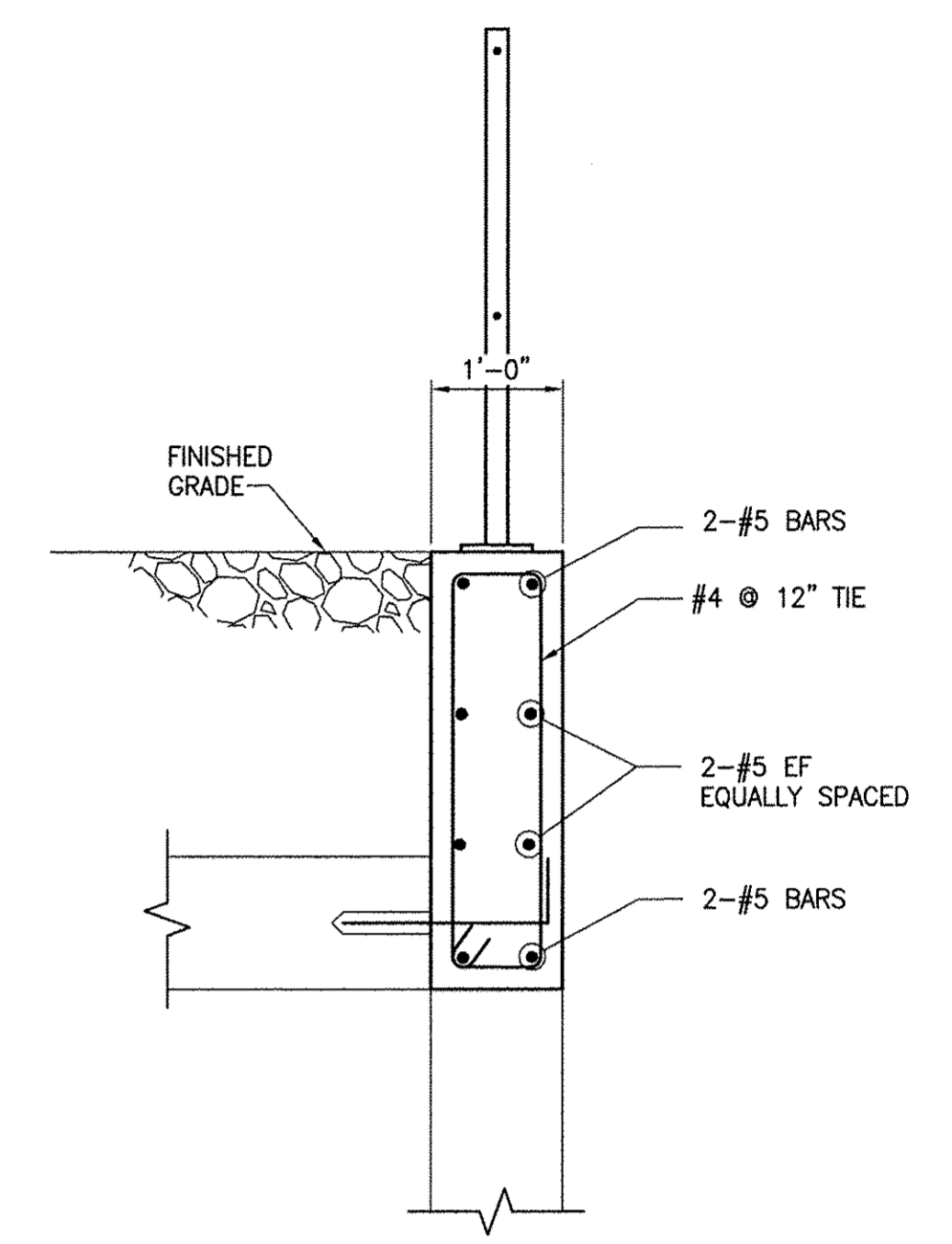
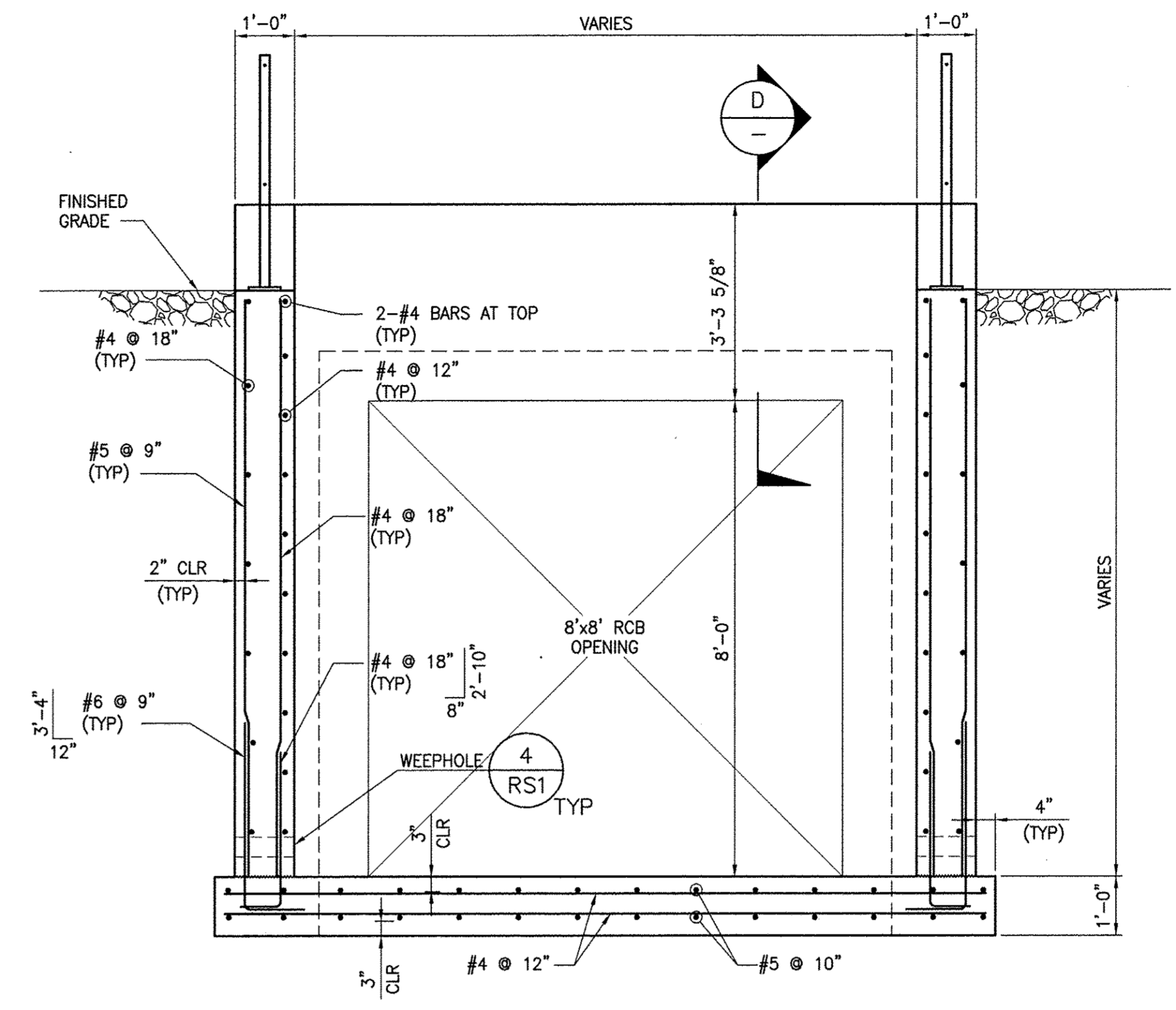
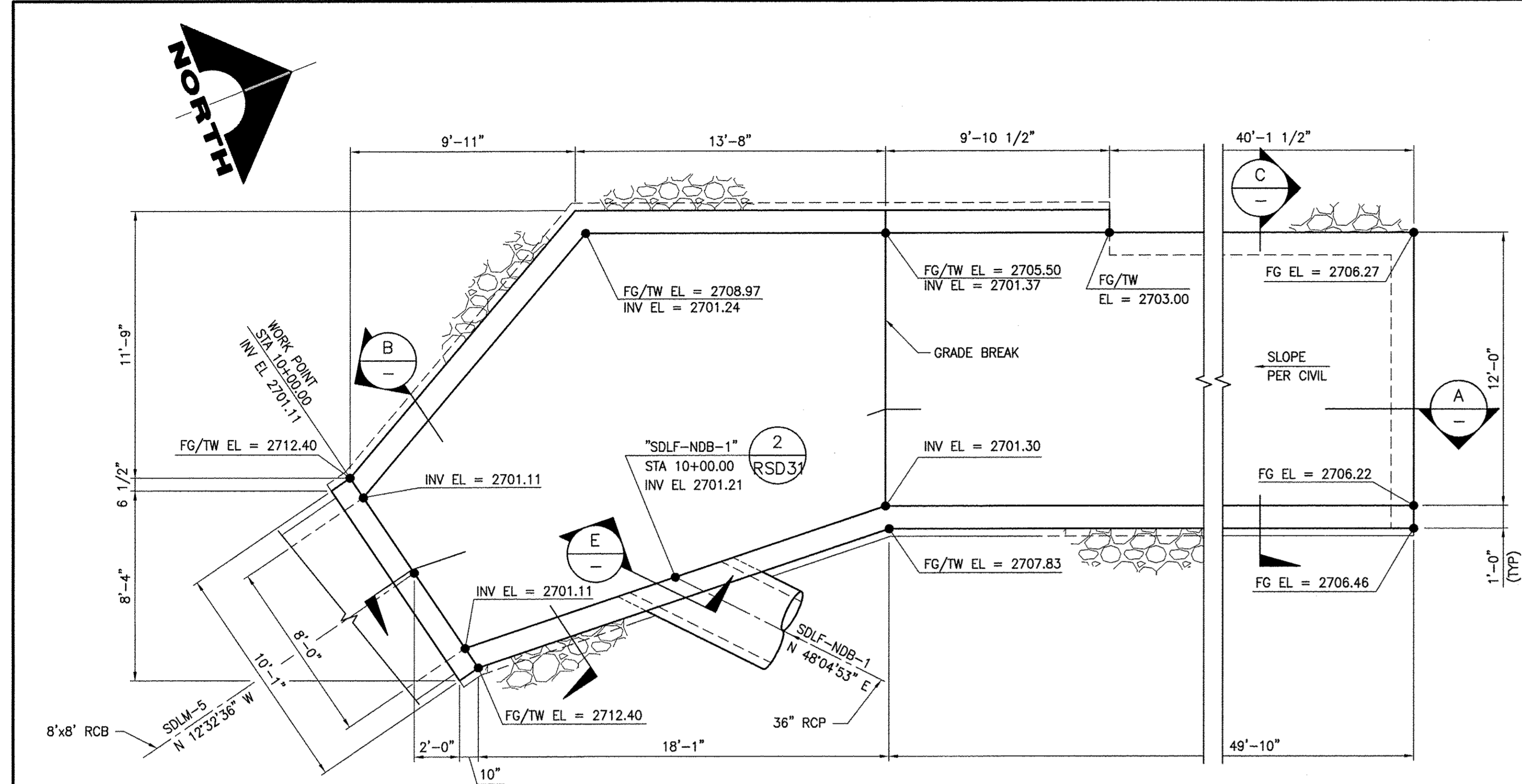
**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**SDLM-4 CONCRETE CHANNEL CHUTE/GROUTED RIPRAP CHUTE**  
 STA 10+00.00 TO STA 13+95.83  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FAM CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 591 OF 600

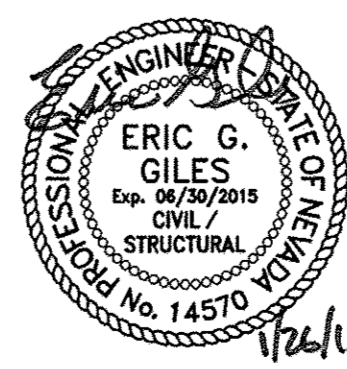
BD NO. 603576-15



REV. NO.	DATE	DESCRIPTION	APPROVED

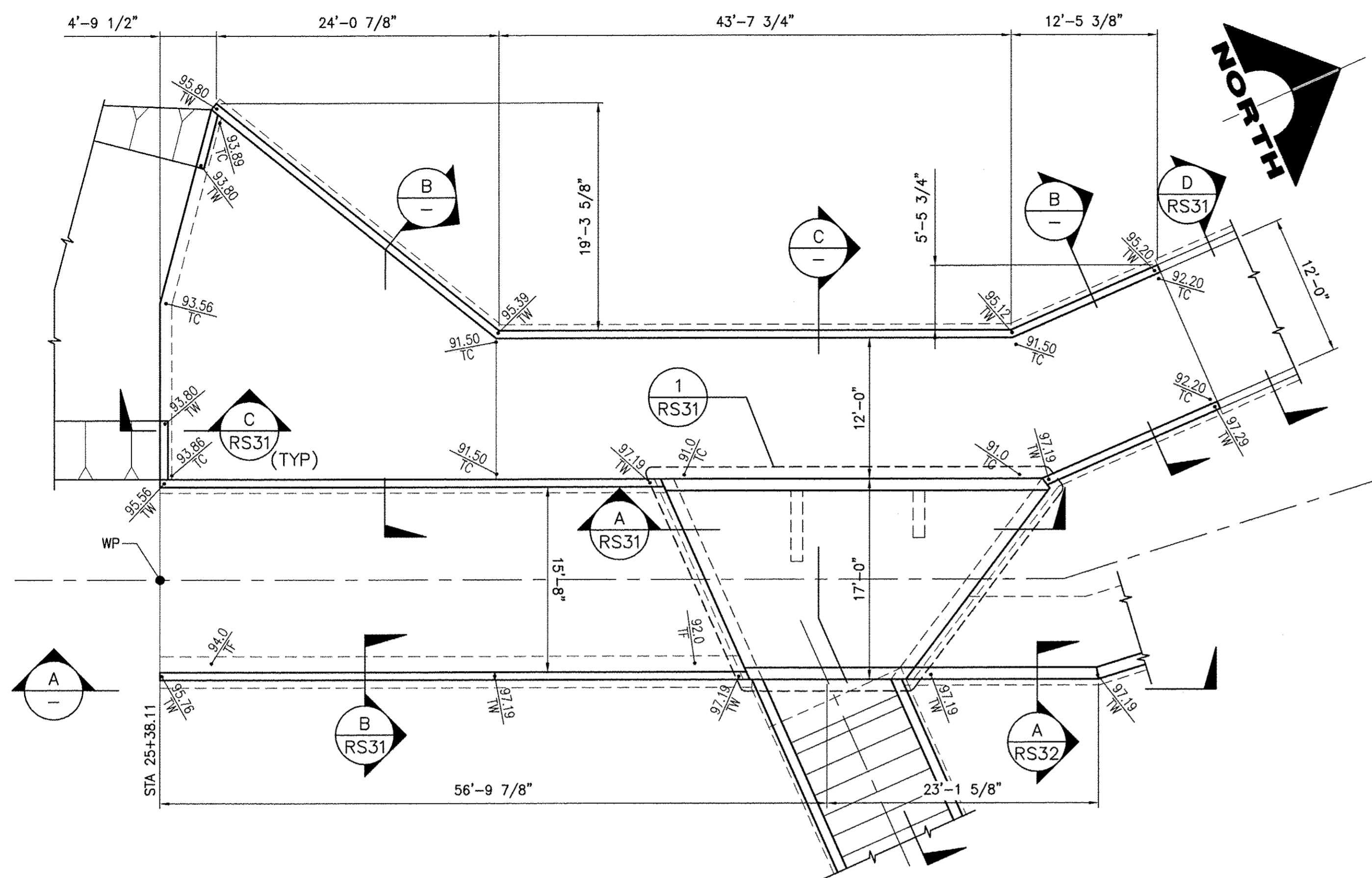


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
 SDLM-5 AND SDFL-NDB-1 INLET/OUTFALL STRUCTURE  
 AT STA 10+00.00  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



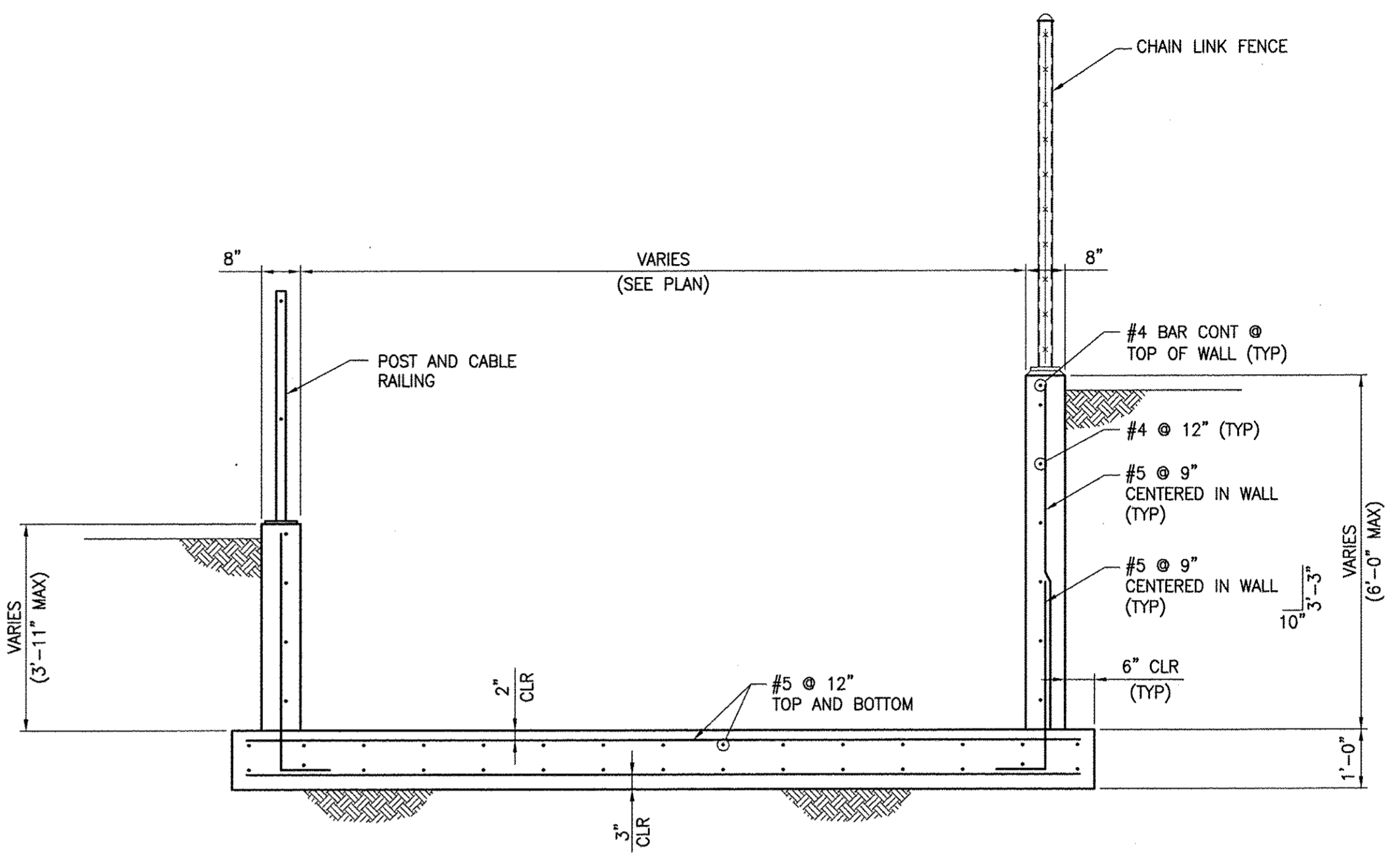
PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 592 OF 600

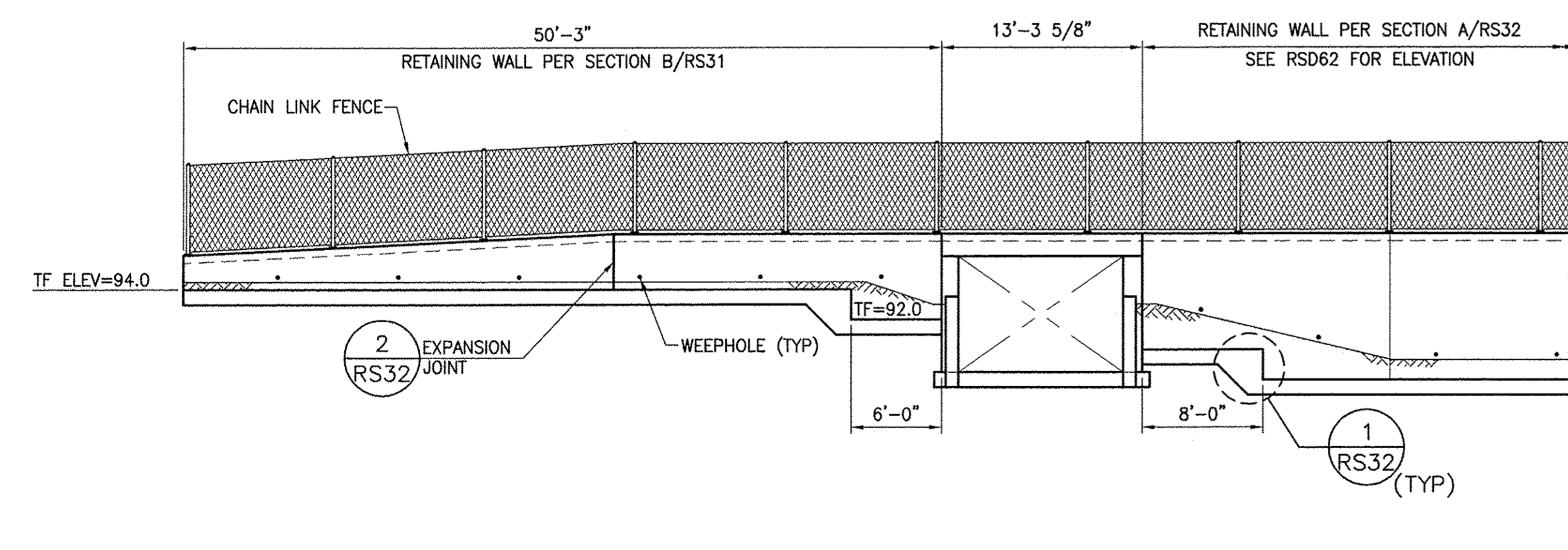


**1 PLAN - CONCRETE SPILLWAY**  
SCALE: 1/8" = 1'-0"

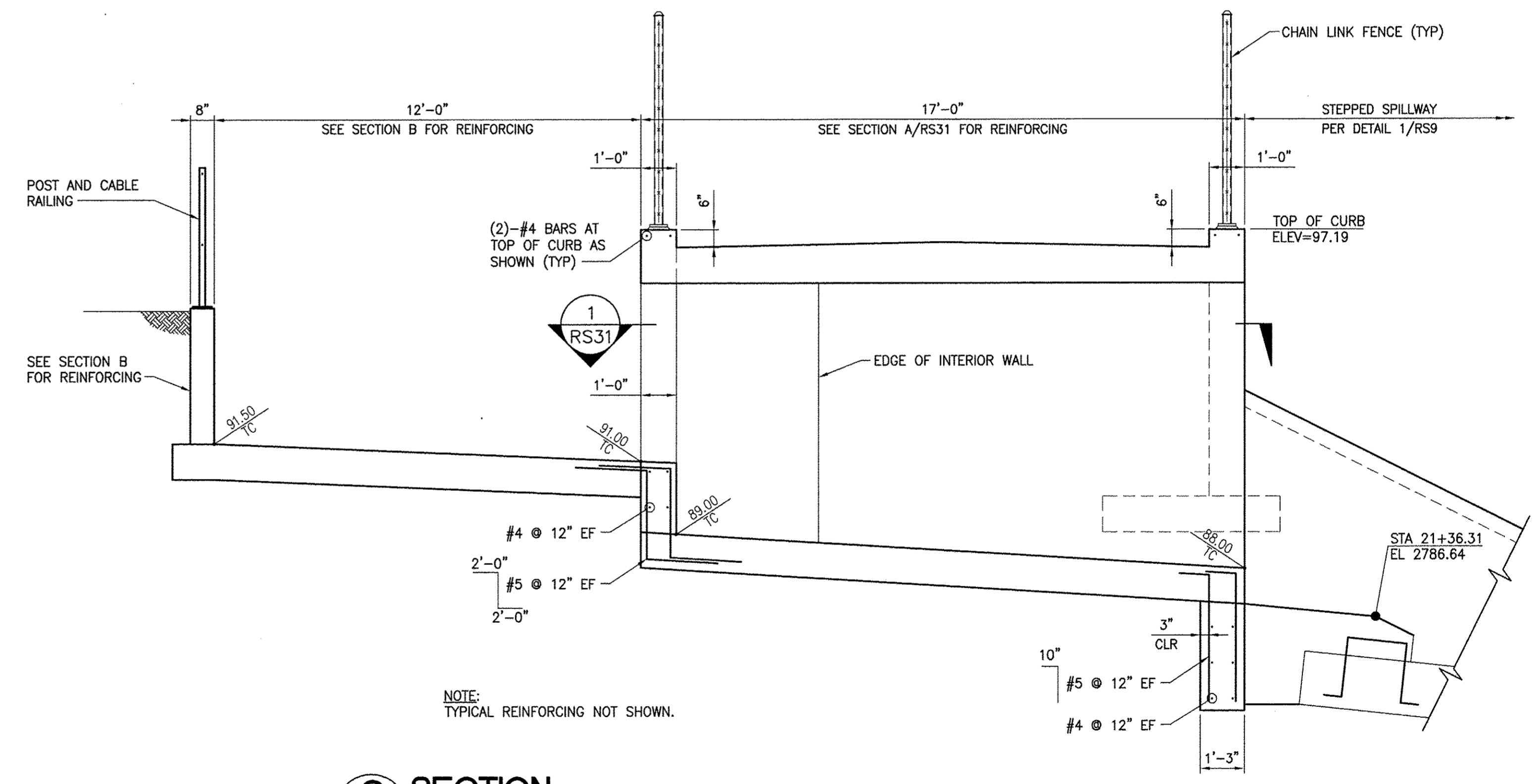
REF DWG: RSD4A, RSD12



**B SECTION**  
SCALE: 1/2" = 1'-0"



**A ELEVATION**  
SCALE: 1/8" = 1'-0"

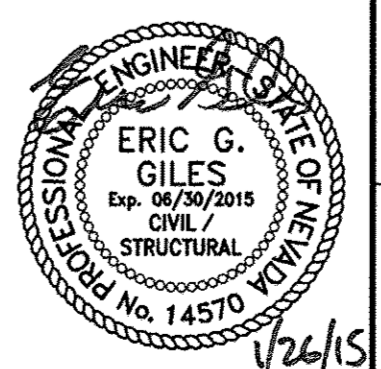


**C SECTION**  
SCALE: 3/8" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED

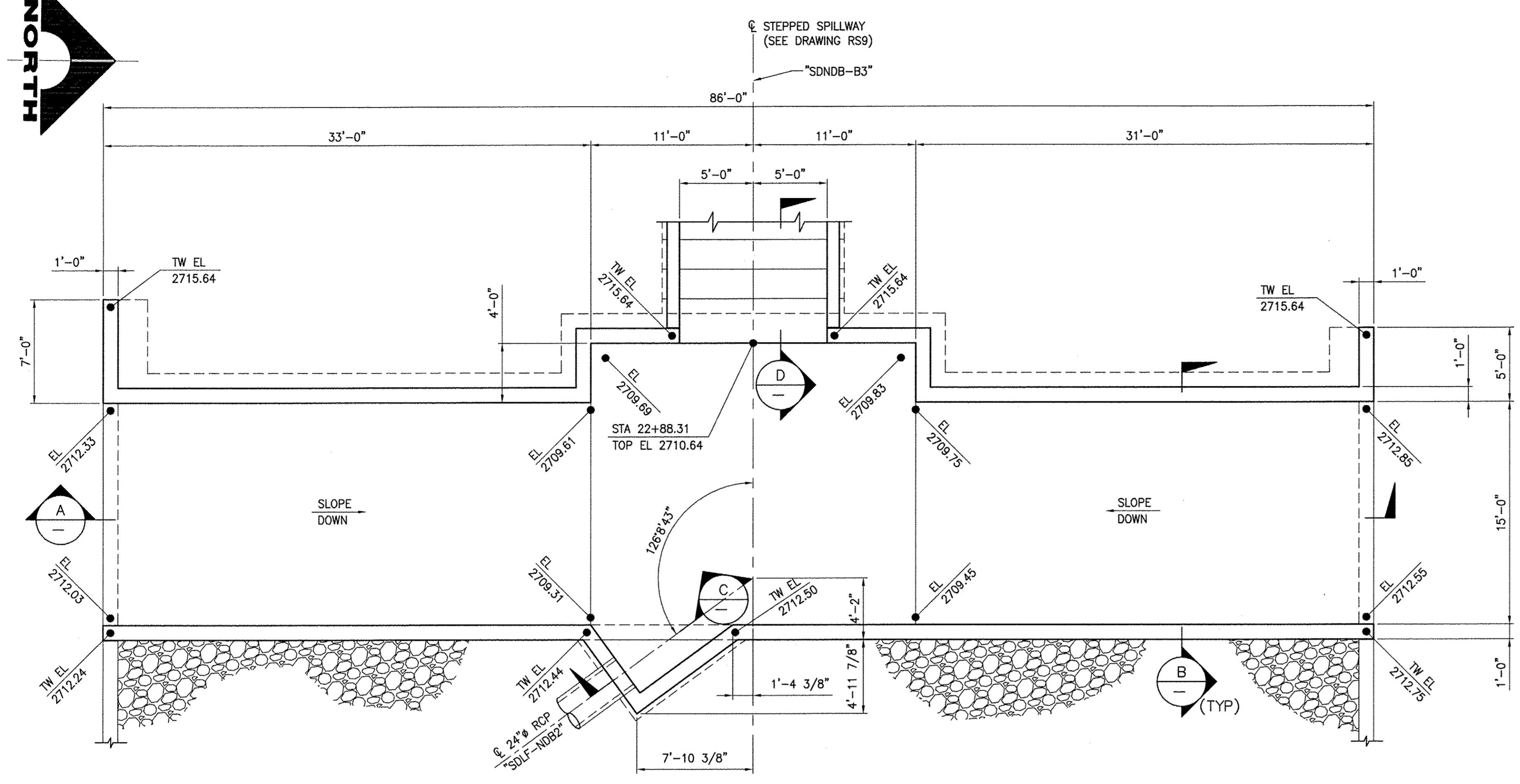
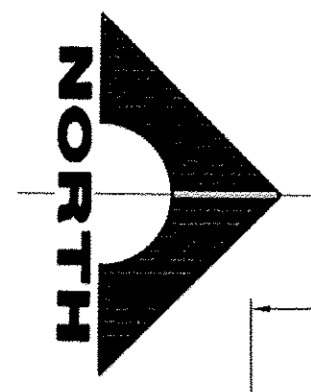


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDNDB-B3 NORTH BASIN TRANSITION/INLET STRUCTURE  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



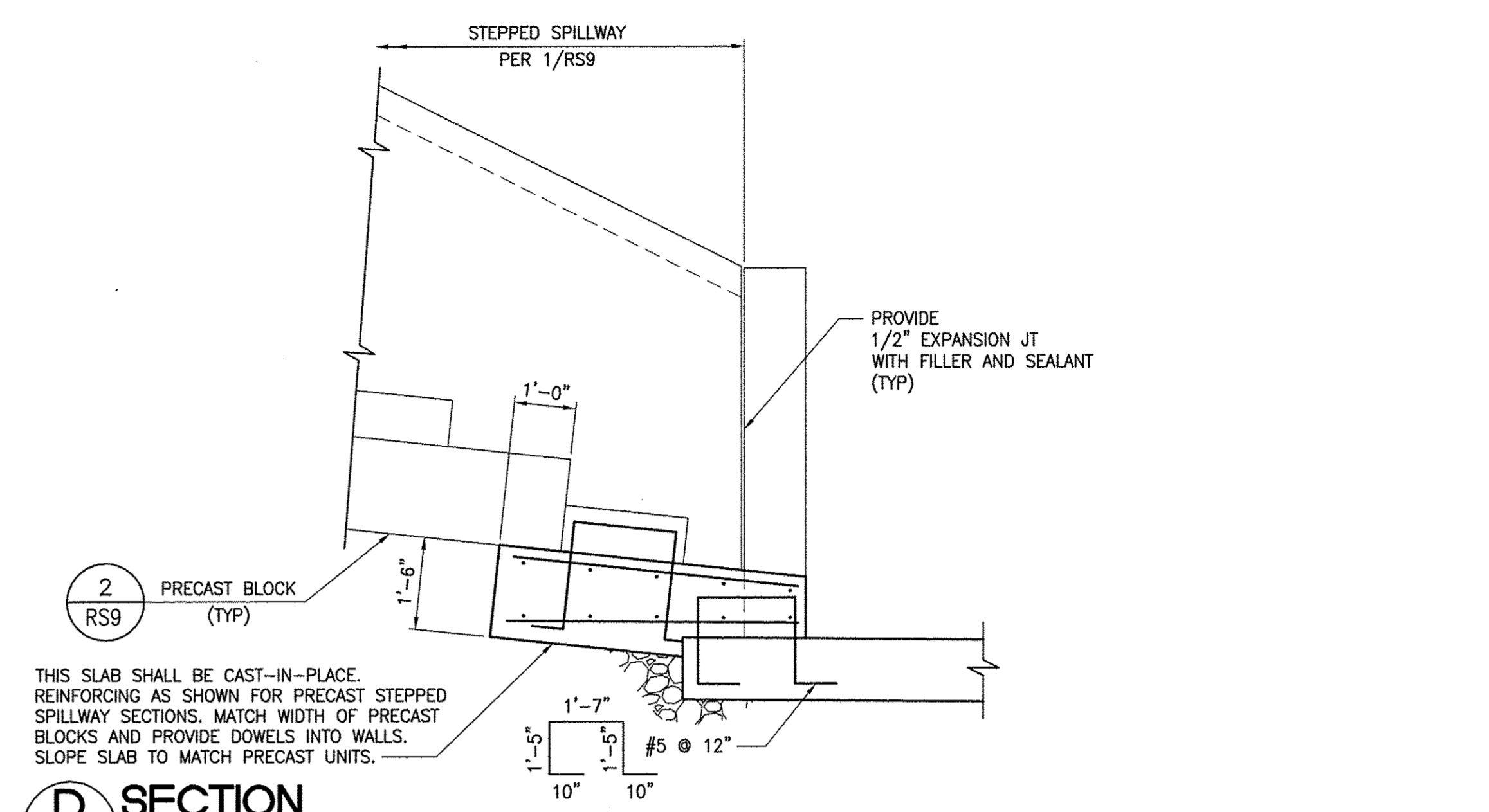
PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
G. C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE  
HORIZ: NONE DRAWING NO.  
VERT: NONE  
FIELD BOOK  
COPW PROJECT #  
W.O. #: 2008-62 SHT. 593 OF 600  
RS25

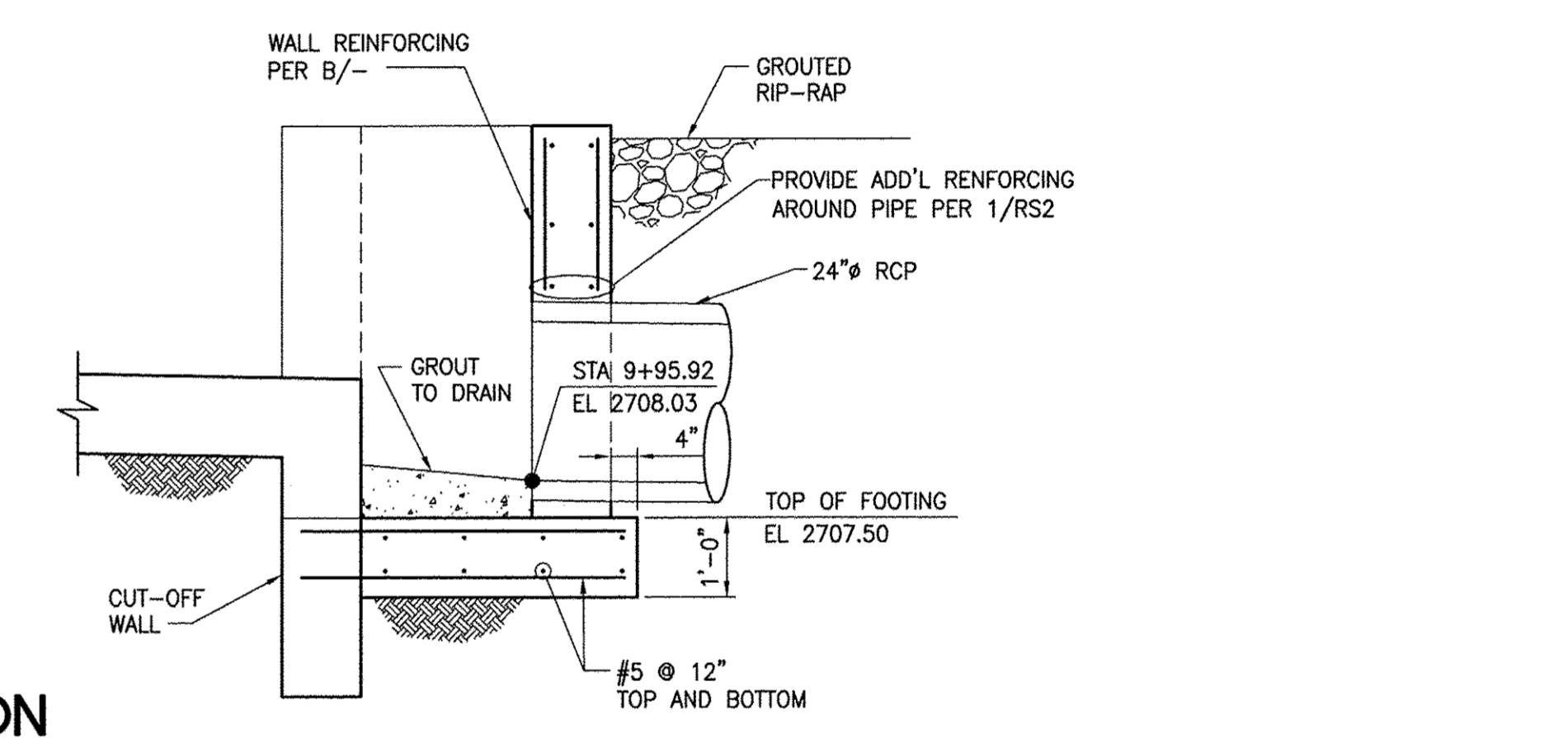


**1 PLAN**  
SCALE: 3/16" = 1'-0"

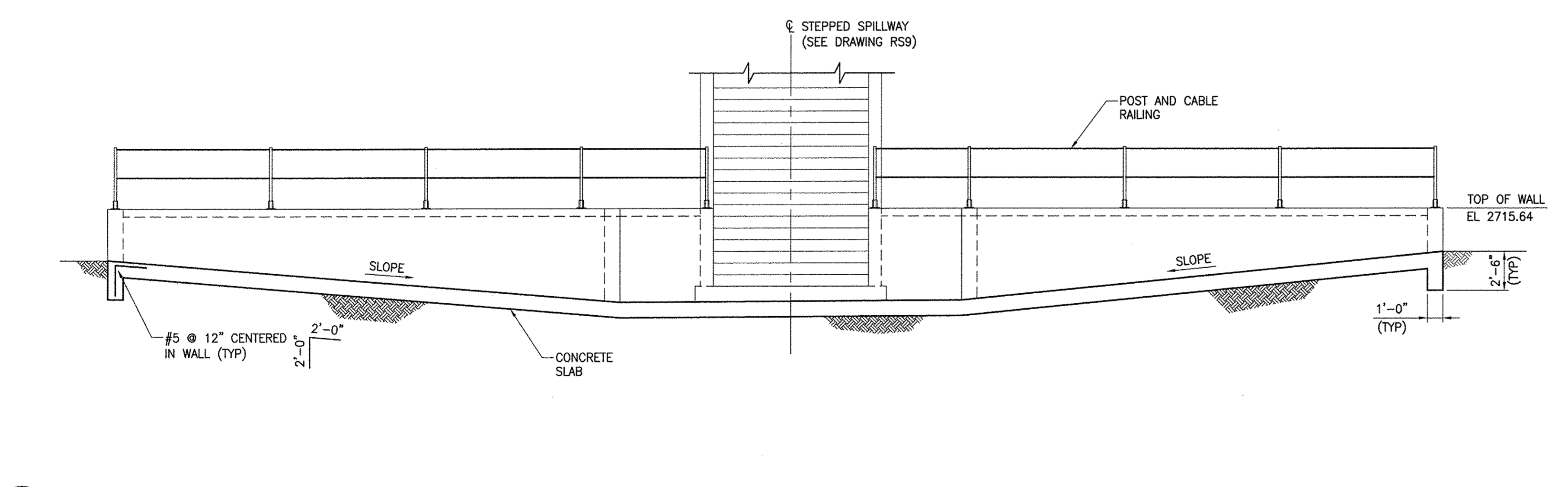
REF DWG: RSD4A, RSD12



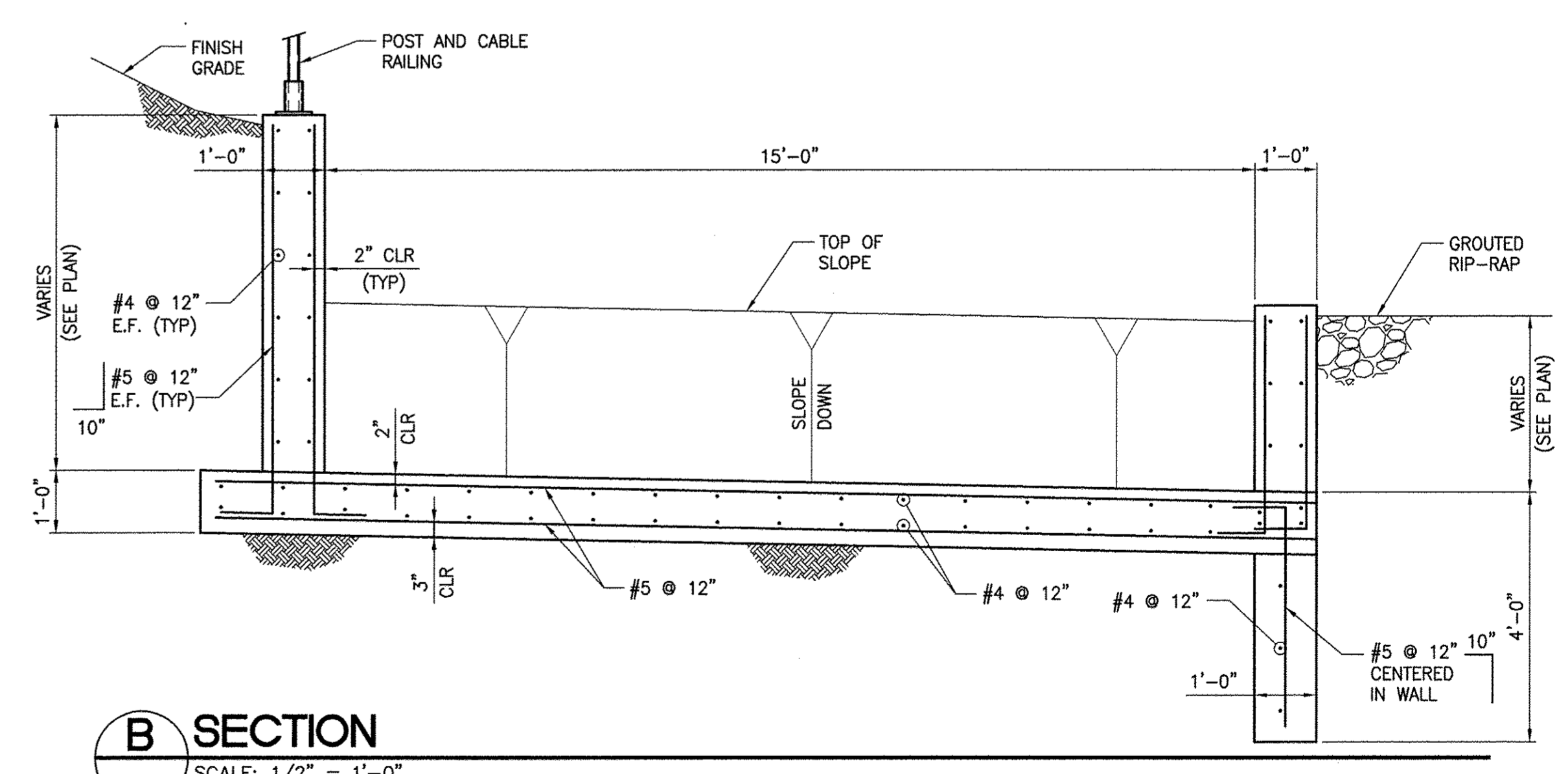
**D SECTION**  
SCALE: 1/2" = 1'-0"



**C SECTION**  
SCALE: 1/2" = 1'-0"



**A ELEVATION**  
SCALE: 3/16" = 1'-0"

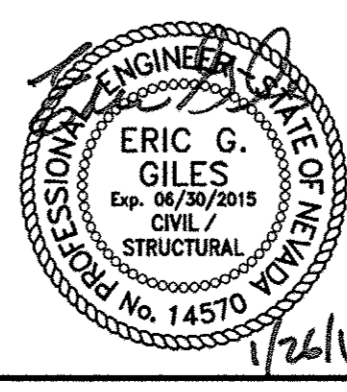


**B SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDNDB-B3 NORTH BASIN STILLING BASIN STRUCTURE  
AT STA 22+87.12  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

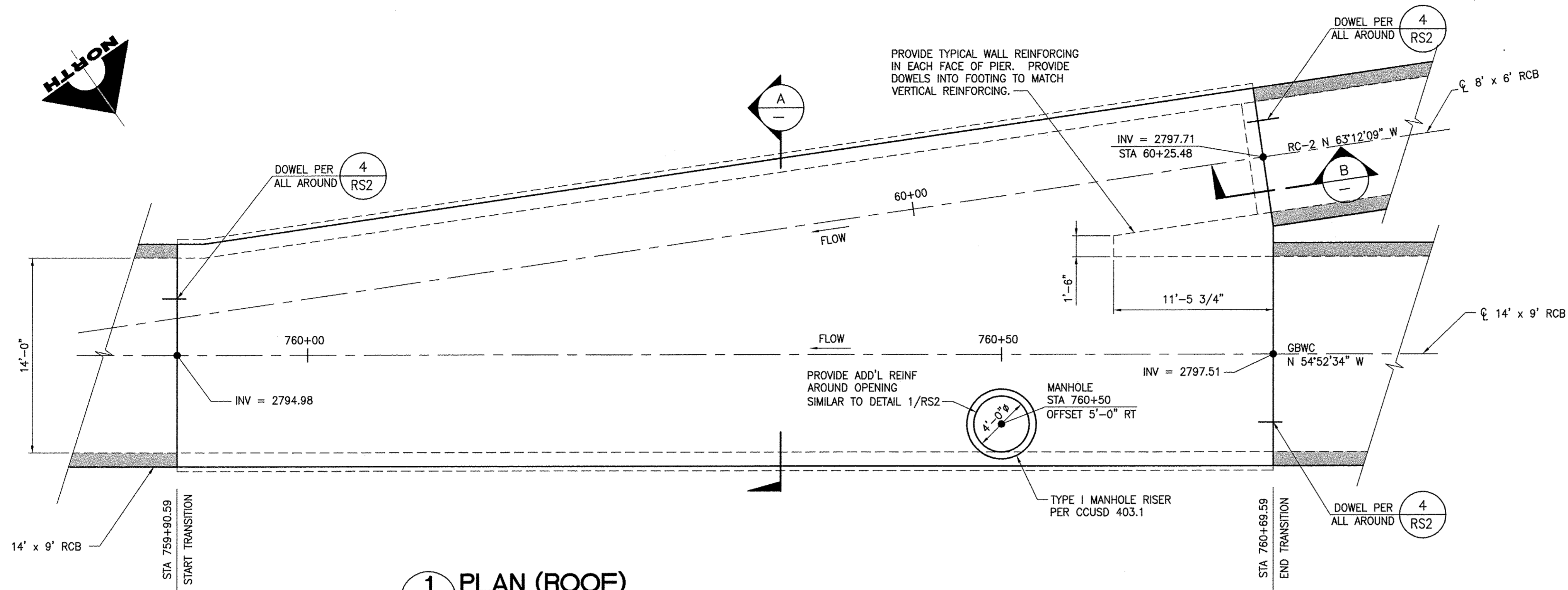


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

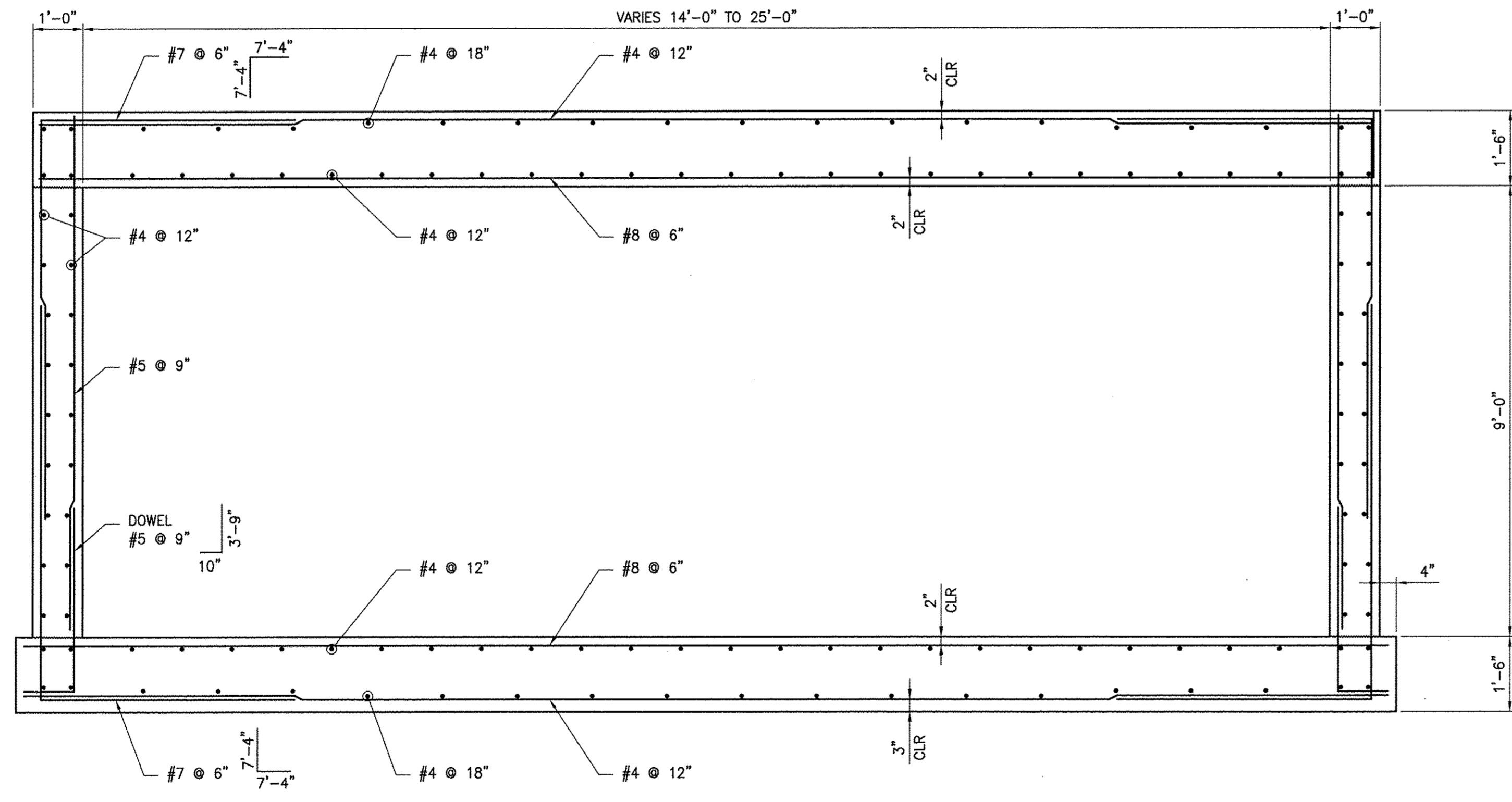
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		
CCPW PROJECT #		
W.O. #:	2008-62	SHT. 594 OF 600

BD NO. 603576-15

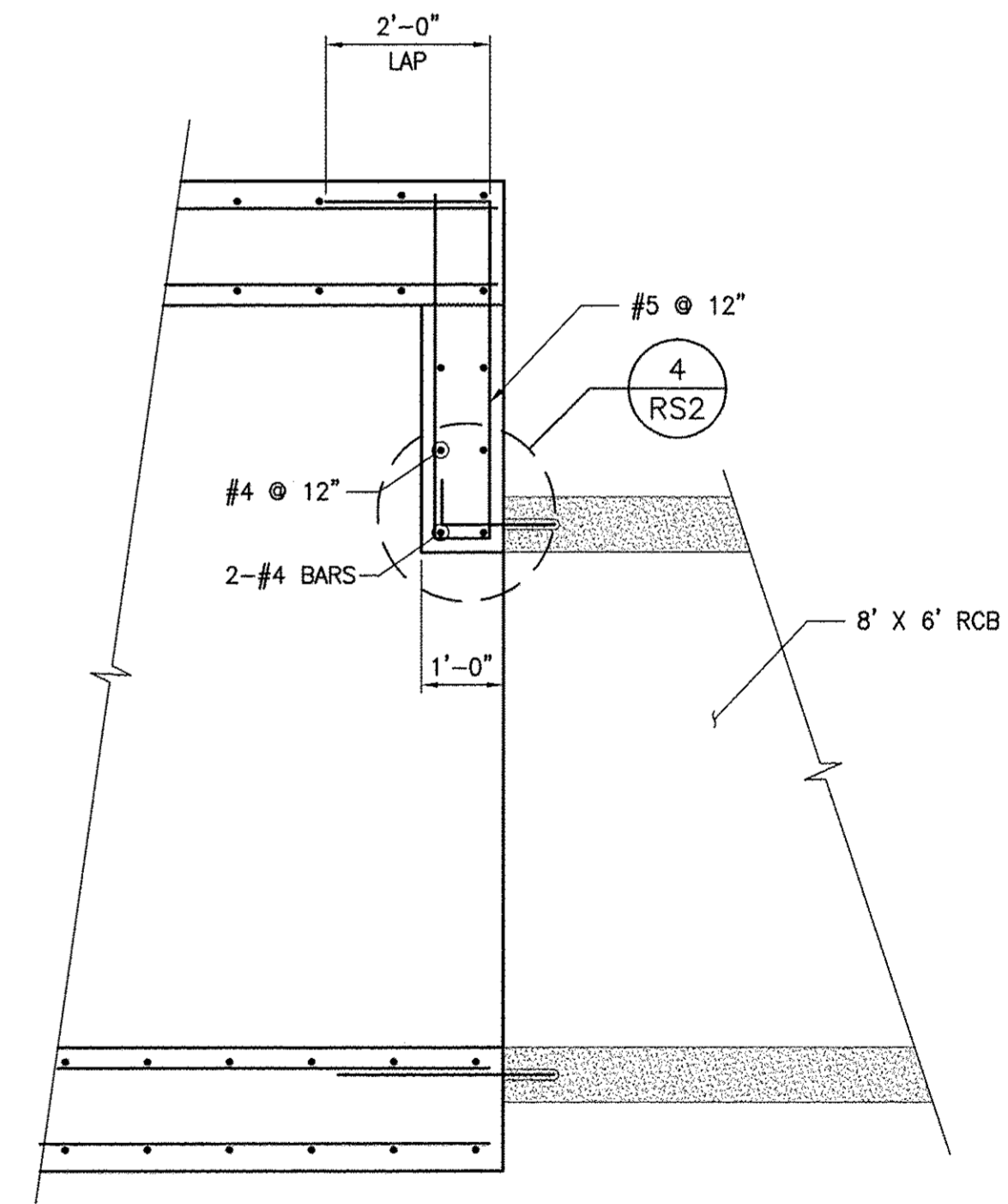




**1 PLAN (ROOF)**  
SCALE: 3/16" = 1'-0"  
REF DWG: RSD6, RSD18



**A SECTION**  
SCALE: 1/2" = 1'-0"



**B SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED

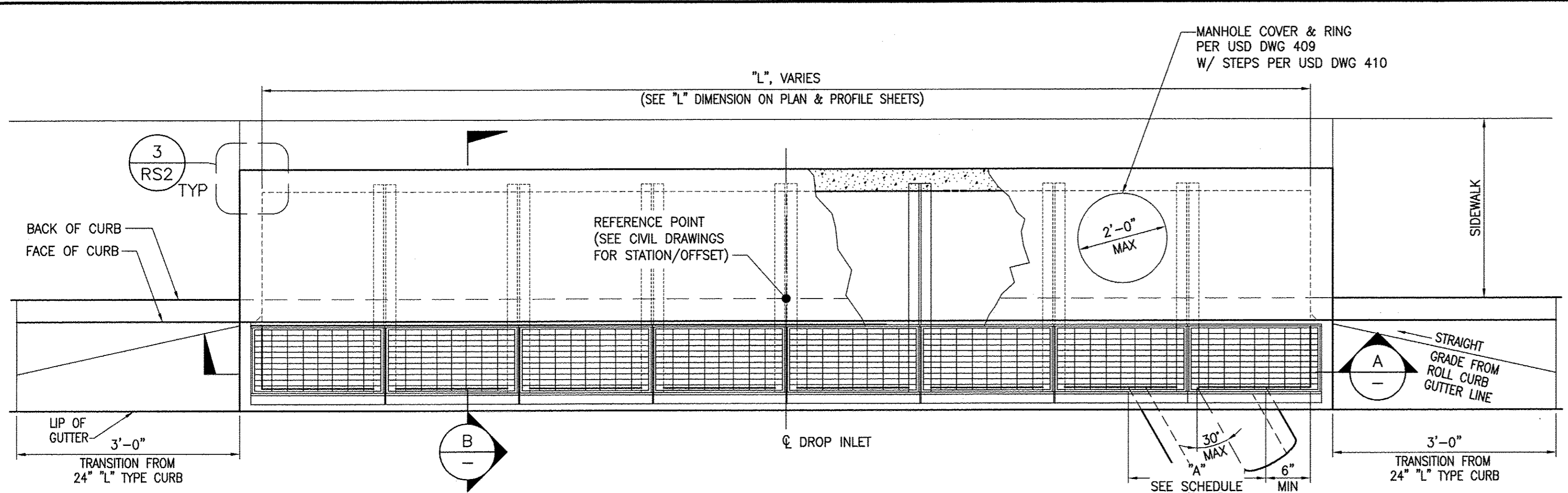


**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**GBWC CONFLUENCE STRUCTURE**  
 STA 759+90.59 TO STA 760+69.59  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

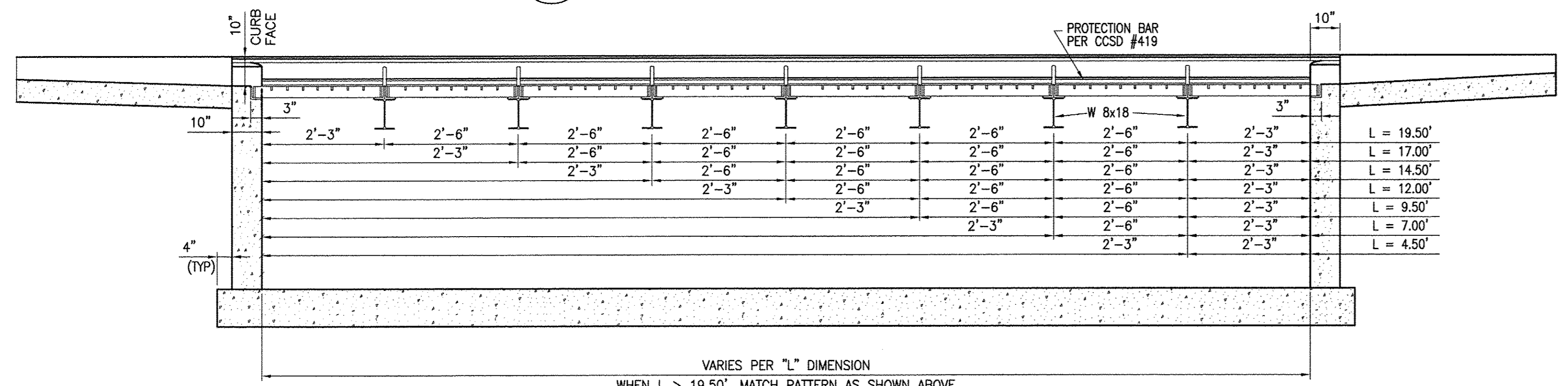


PROJECT No: 451.002.001 DRAWN BY: FAM  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

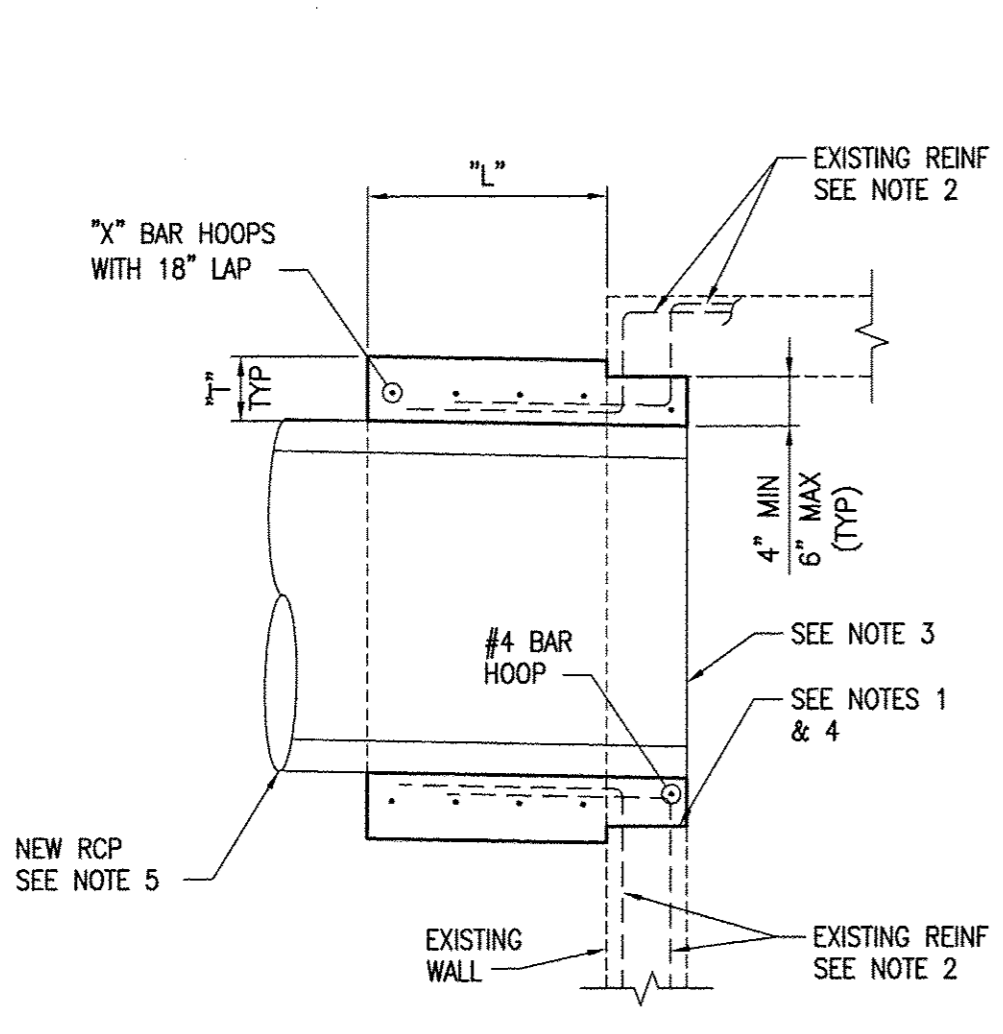
SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 595 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	



**1 PLAN**  
SCALE: NONE



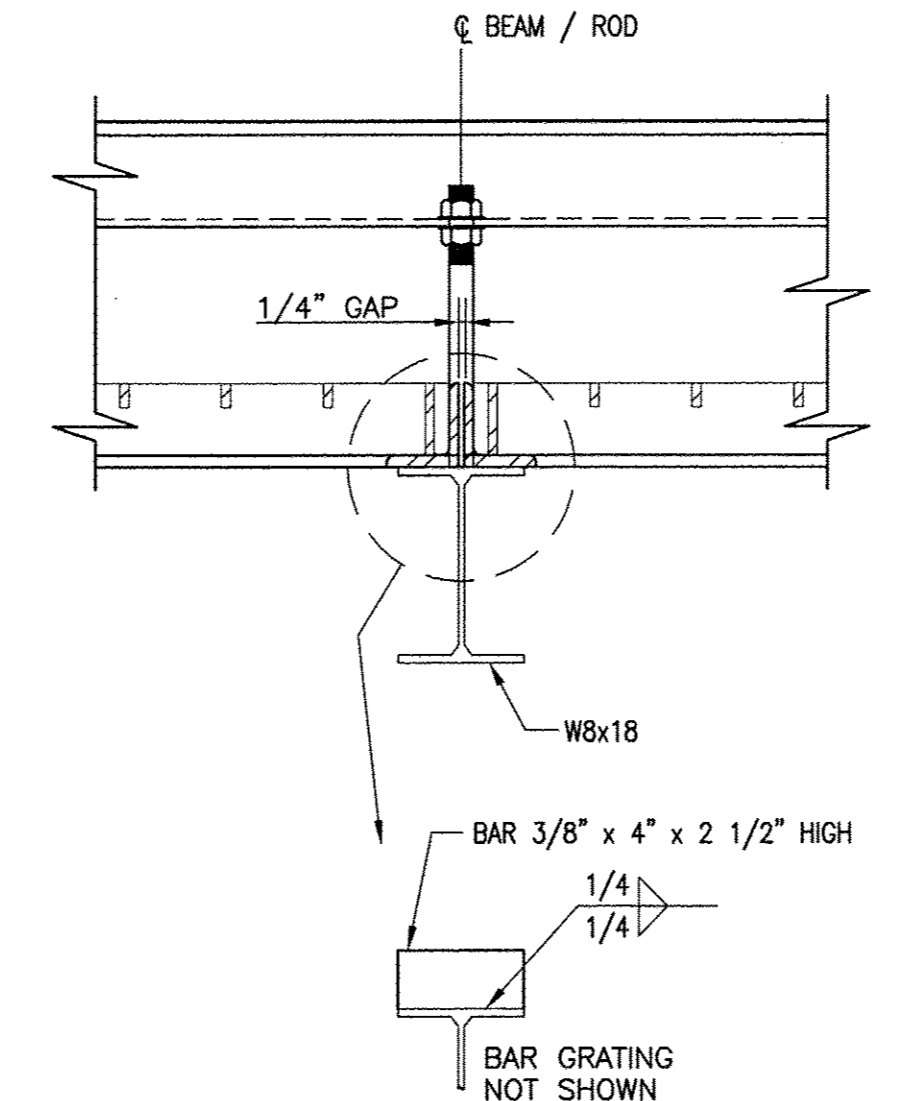
**A SECTION**  
SCALE: NONE



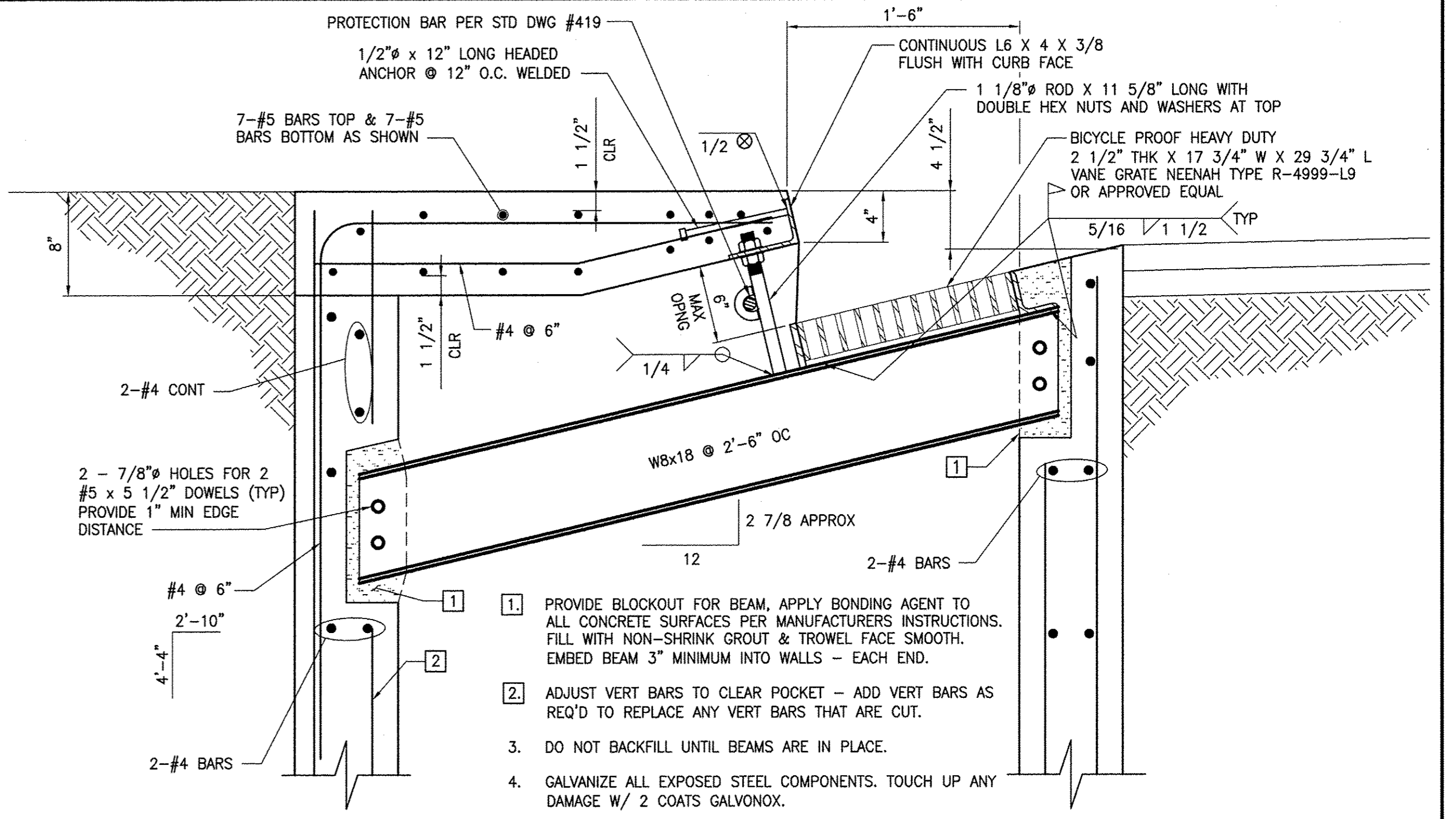
**3 PIPE PENETRATION INTO EXISTING WALL DETAIL**  
SCALE: NONE

PIPE SIZE	"T"	"L"	"X" BARS
12"	6"	1'-0"	(2) - #4 BARS
18"	6"	1'-6"	(3) - #4 BARS
24"	8"	2'-0"	(3) - #4 BARS
36"	8"	2'-6"	(4) - #5 BARS
48"	10"	3'-0"	(5) - #5 BARS

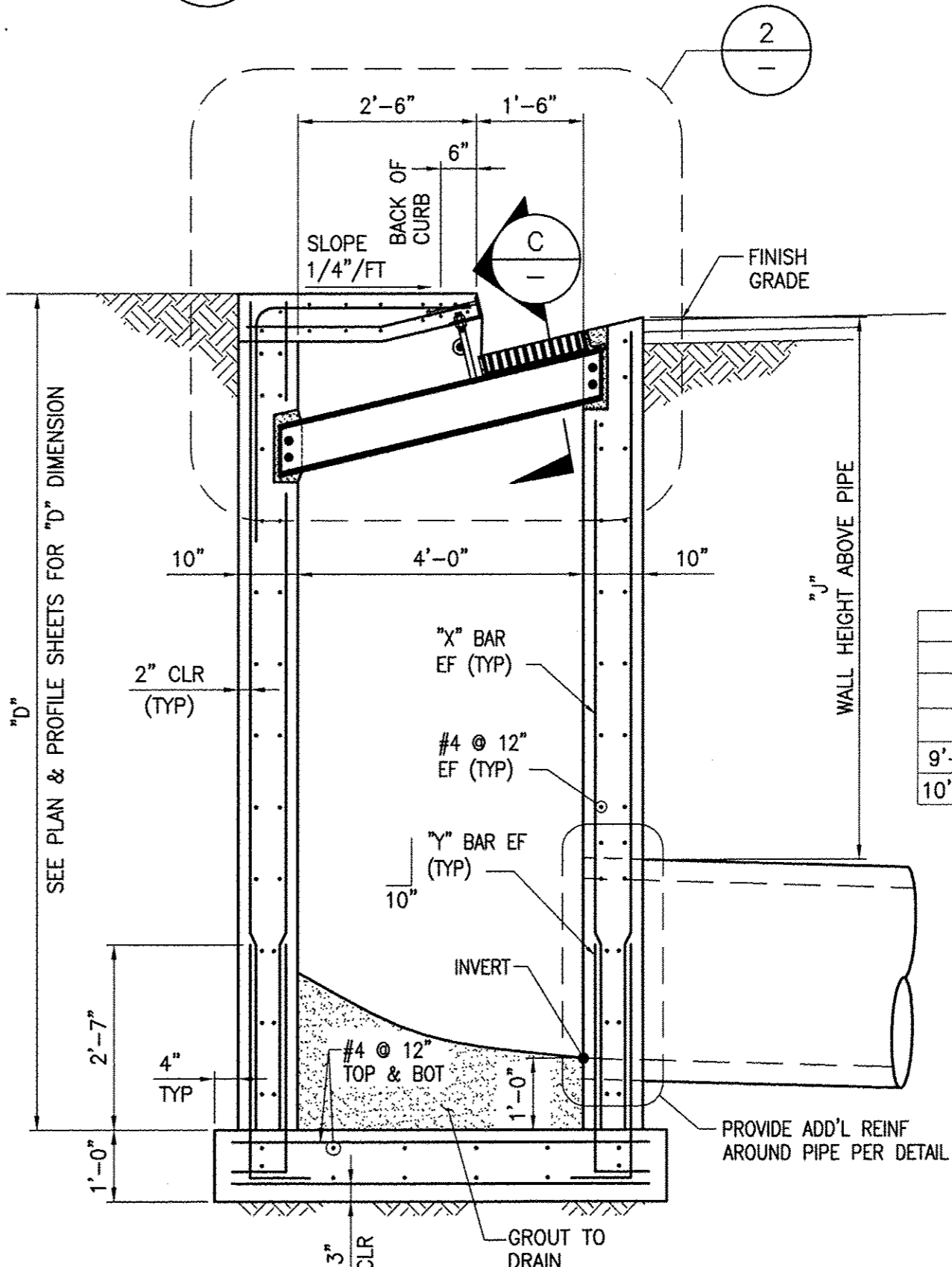
- NOTES:**
- SAWCUT AROUND PROPOSED PIPE OPENING TO A DEPTH OF 2" FROM THE INSIDE OF THE EXISTING WALL FACE TO PROVIDE A CLEAN EDGE TO MATE NEW CONCRETE SURFACE UP AGAINST. CHIP OUT THE REMAINDER OF THE CONCRETE OPENING TAKING CARE NOT TO CUT THE EXISTING REINFORCING.
  - CUT EXISTING REINFORCING AT MIDDLE OF PROPOSED PIPE PENETRATION AND BEND EXISTING REINFORCING AROUND THE NEW PIPE.
  - CUT NEW RCP FLUSH WITH INSIDE FACE OF WALL OR SLIGHTLY RECESSED.
  - APPLY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES THAT WILL HAVE NEW CONCRETE POURED UP AGAINST.
  - MAXIMUM SKEW OF PIPE TO WALL = 20° FROM PERPENDICULAR.



**C SECTION**  
SCALE: NONE



**2 DETAIL**  
SCALE: NONE



**B DROP INLET SECTION**  
SCALE: 1/2" = 1'-0"

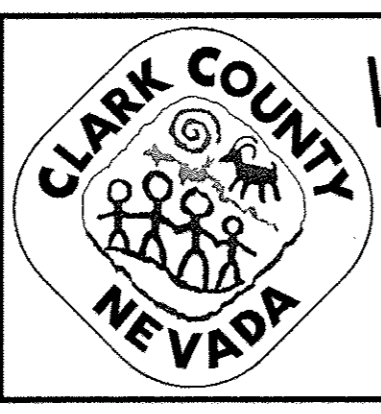
**PIPE PENETRATION SCHEDULE**

OPENING WIDTH "A"	MIN "J"
2'-0"	2'-0"
3'-0"	2'-3"
4'-0"	2'-6"
5'-0"	2'-9"
6'-0"	3'-0"

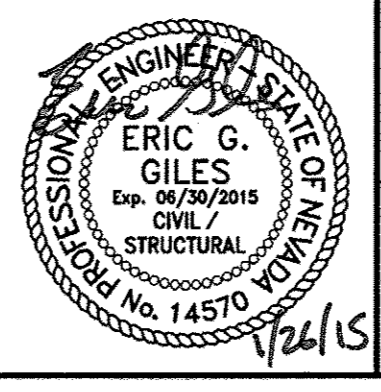
**WALL SCHEDULE**

DIMENSIONS "D"	"X" BARS	"Y" BARS
D ≤ 9'-0"	#5 @ 12"	#5 @ 12"
9'-0" < D ≤ 10'-6"	#5 @ 8"	#5 @ 8"
10'-6" < D ≤ 12'-6"	#6 @ 6"	#6 @ 6"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
**MODIFIED TYPE "CM" DROP INLET DETAILS**  
**FOR "H" > 8'-0"**  
 CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
 1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
 T: 702.804.2000 · F: 702.804.2299 · GCWALLACE.COM

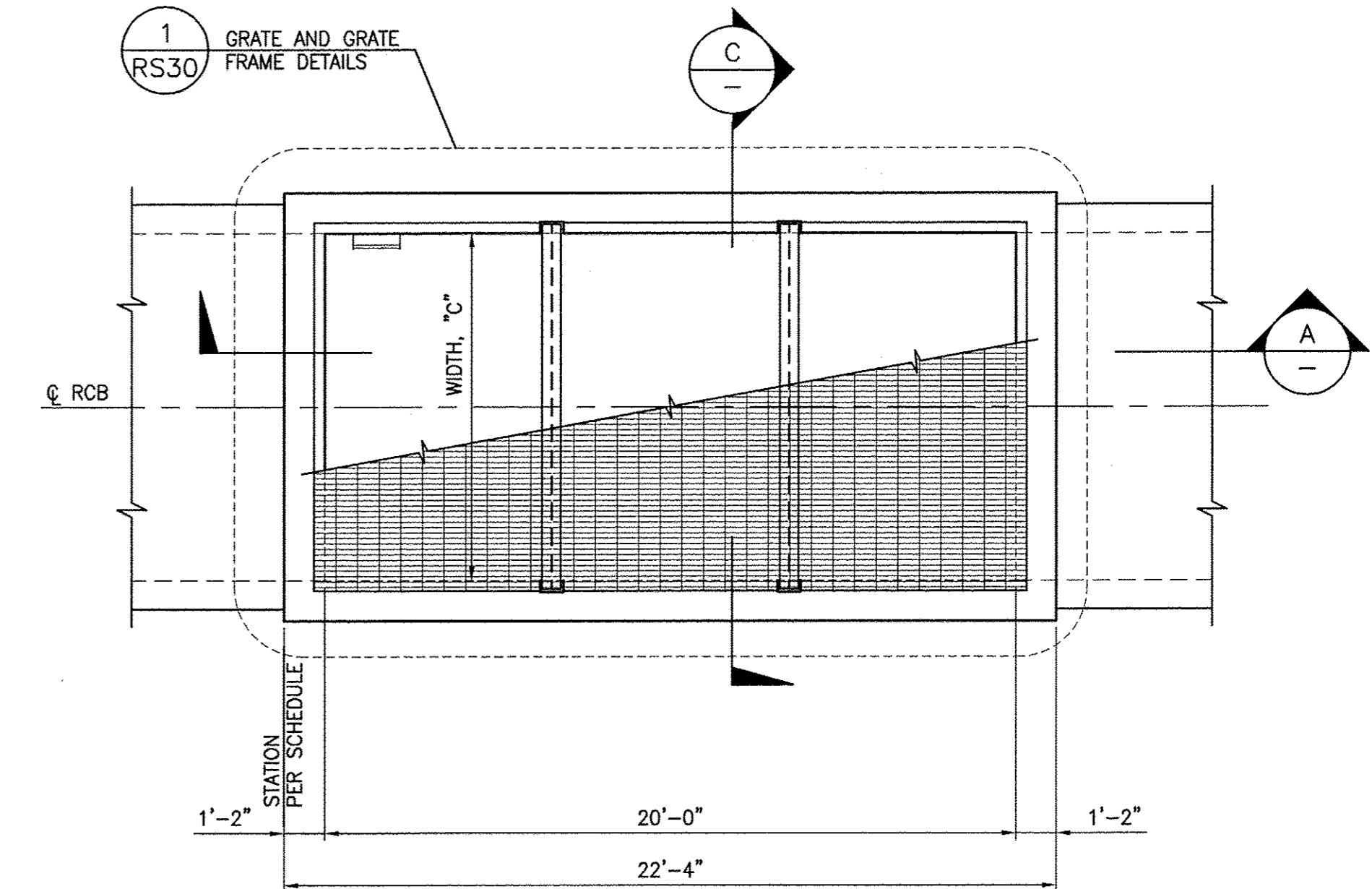
SCALE		DRAWING NO.
HORIZ:	AS SHOWN	RS28
VERT:	AS SHOWN	
FIELD BOOK		SHT. 596 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

BID NO. 603576-15

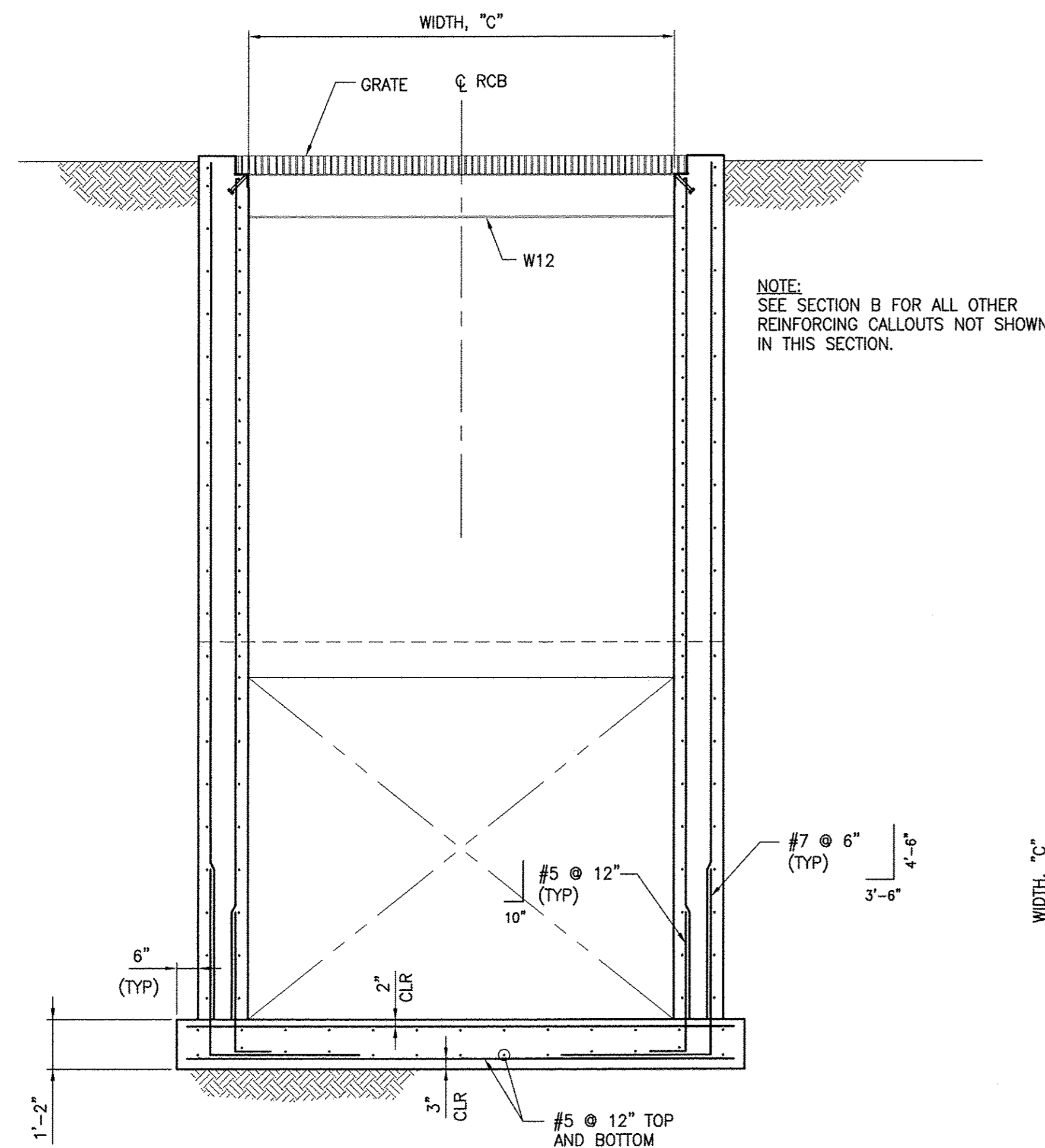
### RCB GRATE ACCESS OPENING SCHEDULE

	RCB SIZE	STARTING STATION	INVERT ELEV. "A"	INVERT ELEV. "B"	TOP OF GRATE ELEVATION	WIDTH, "C"
ACCESS OPENING #1	10' x 8' RCB	STA 1795+38.83	2857.91	2858.53	2879.4	10'-0"
ACCESS OPENING #2	9' x 8' RCB	STA 1815+38.83	2875.17	2875.42	2890.0	9'-0"
ACCESS OPENING #3	8' x 6' RCB	STA 1827+38.83	2889.84	2890.08	2901.2	8'-0"

NOTE:  
INFORMATION GIVEN IN TABLE IS FOR REFERENCE ONLY. IN EVENT THAT ABOVE VALUES DO NOT MATCH CIVIL DRAWINGS NOTIFY ENGINEER. CIVIL DRAWINGS GOVERN OVER TABLE ABOVE.

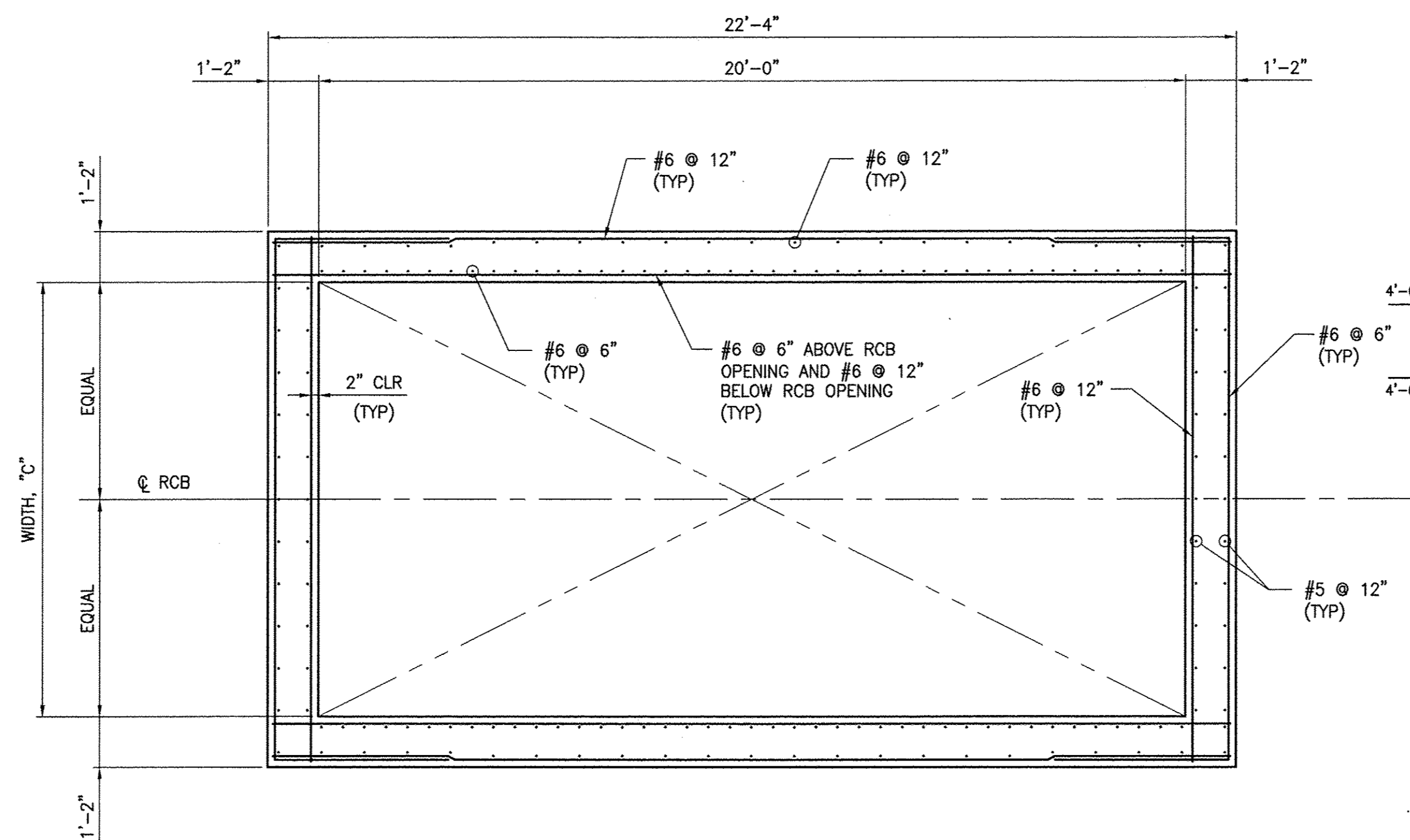


**1 PLAN - RCB GRATE ACCESS OPENING**  
SCALE: 1/4" = 1'-0" REF DWG: RSD21, RSD22, RSD23

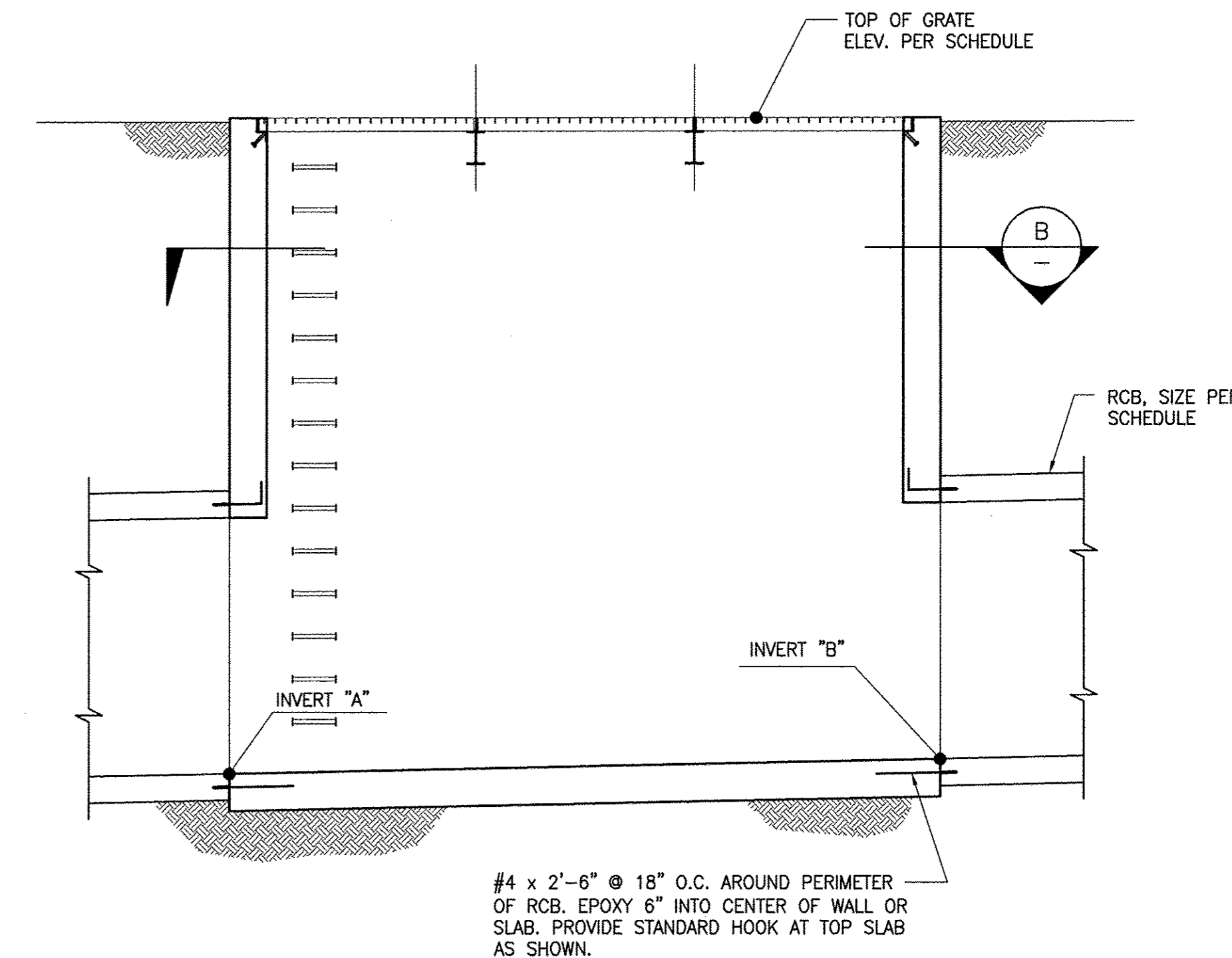


**C SECTION**  
SCALE: 3/8" = 1'-0"

NOTE:  
SEE SECTION B FOR ALL OTHER REINFORCING CALLOUTS NOT SHOWN IN THIS SECTION.



**B SECTION**  
SCALE: 3/8" = 1'-0"



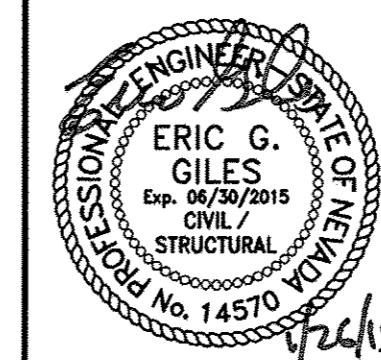
**A ELEVATION**  
SCALE: 1/4" = 1'-0"

#4 x 2'-6" @ 18" O.C. AROUND PERIMETER OF RCB. EPOXY 6" INTO CENTER OF WALL OR SLAB. PROVIDE STANDARD HOOK AT TOP SLAB AS SHOWN.

REV. NO.	DATE	DESCRIPTION	APPROVED



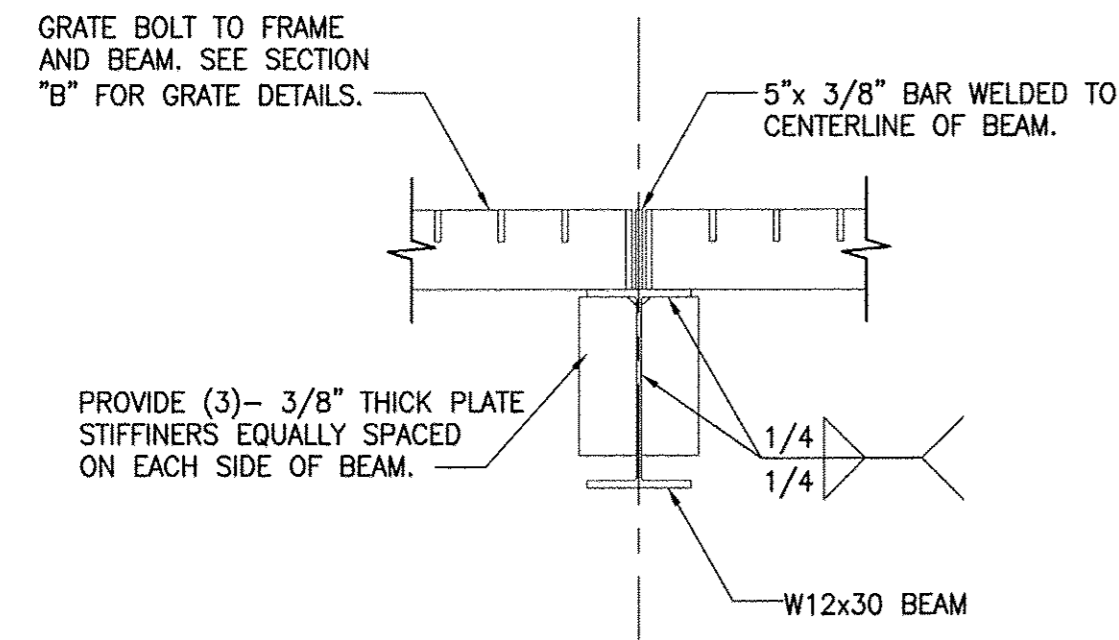
WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
RCB GRATE ACCESS OPENING  
PLAN AND ELEVATION  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



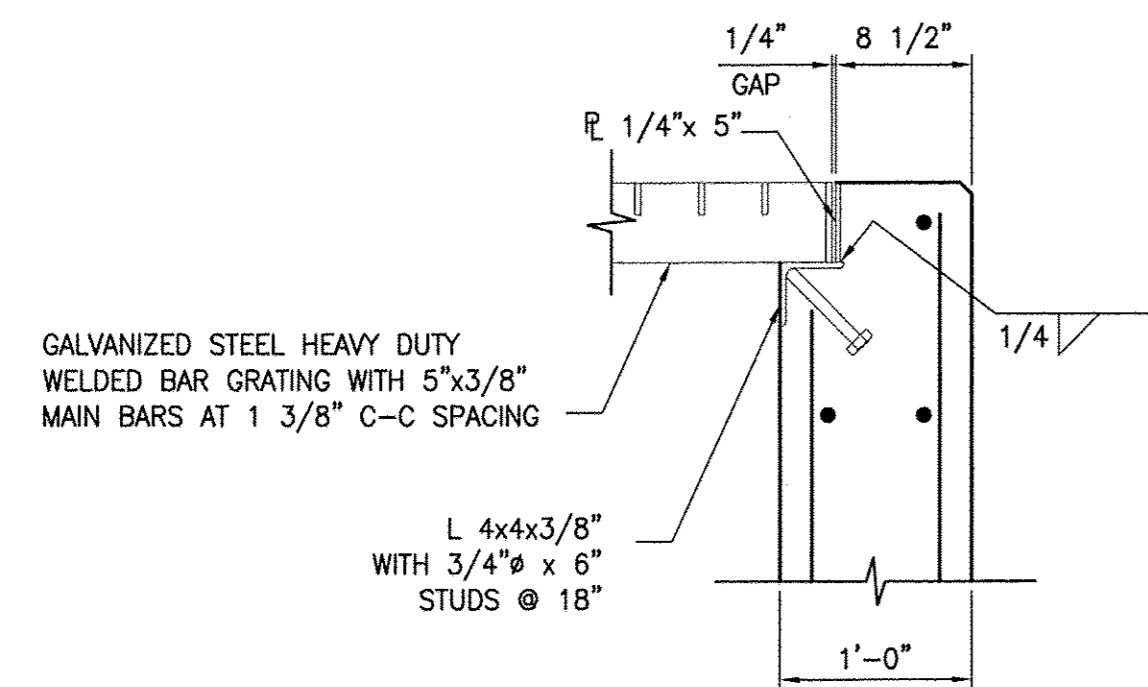
PROJECT No: 451.002.001 DRAWN BY: EGG  
DESIGNED BY: EGG CHECKED BY: DAT  
APPROVED BY: DAT  
G. C. WALLACE COMPANIES  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		SHT. 597 OF 600
CPW PROJECT #		
W.O. #:	2008-62	

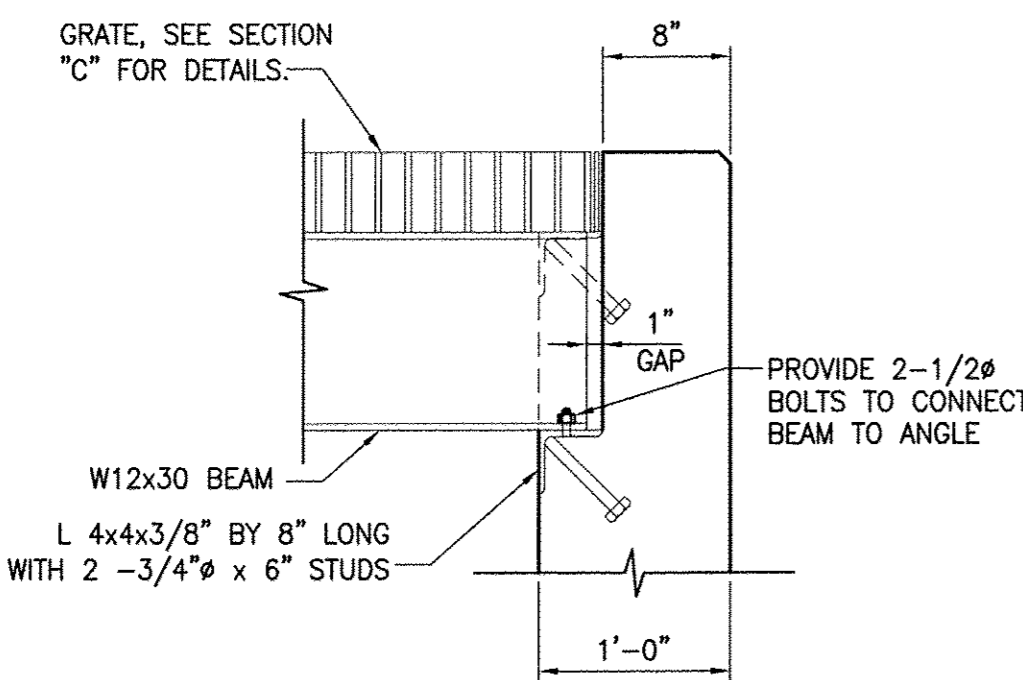
RD NO. 603576-15



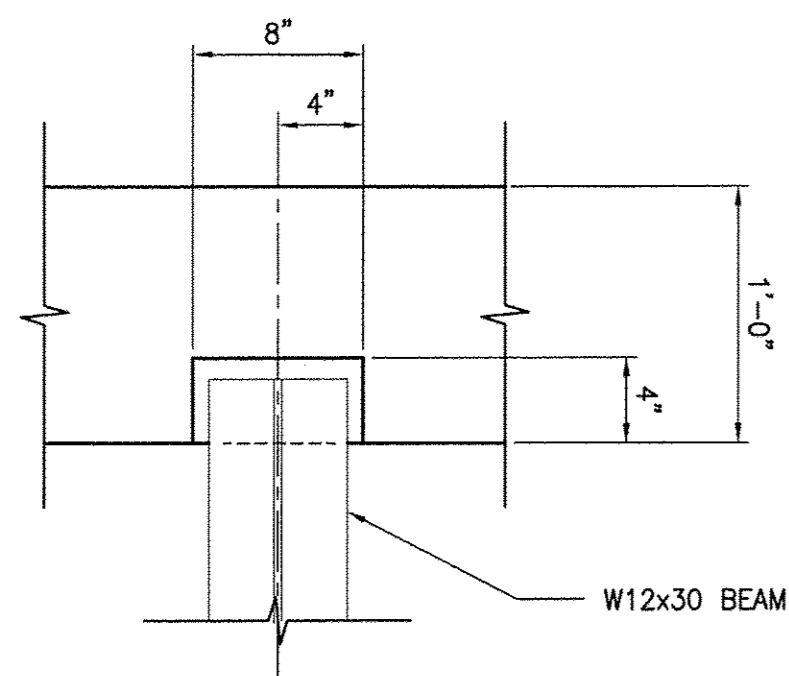
**D SECTION**  
SCALE: 1" = 1'-0"



**C SECTION**  
SCALE: 1" = 1'-0"

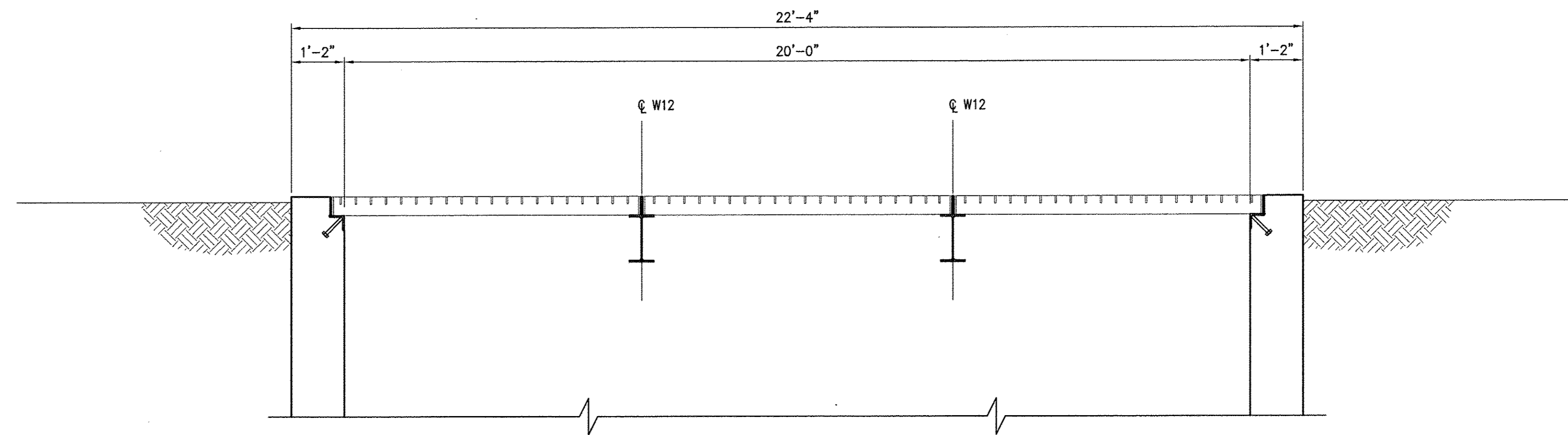


**B SECTION**  
SCALE: 1" = 1'-0"

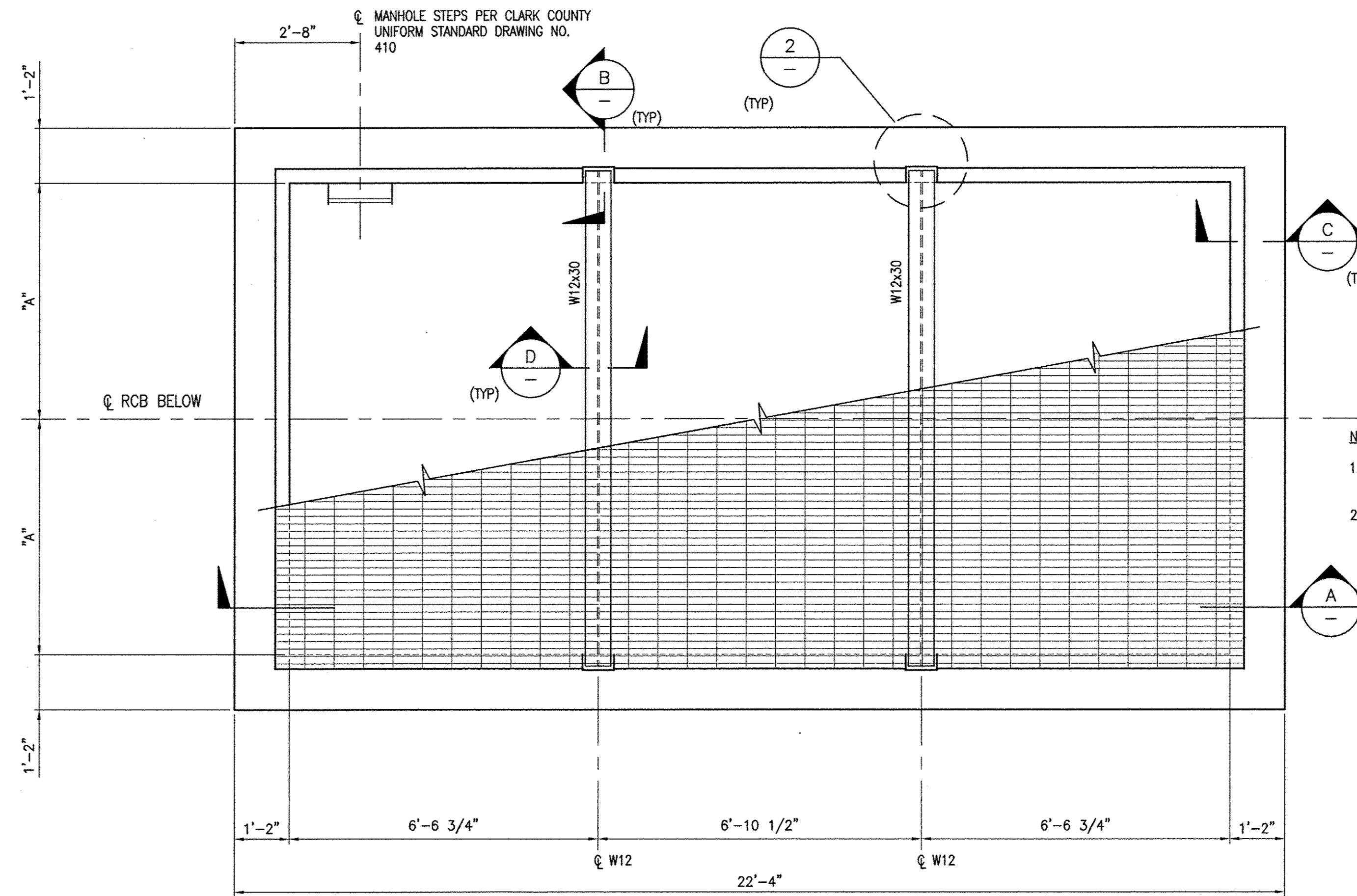


**2 DETAIL**  
SCALE: 1" = 1'-0"

NOTE: SHOWN WITH GRATE REMOVED



**A ACCESS GRATE SECTION**  
SCALE: 1/2" = 1'-0"



**1 PLAN - RCB ACCESS GRATE AND SUPPORT BEAMS**  
SCALE: 1/2" = 1'-0"

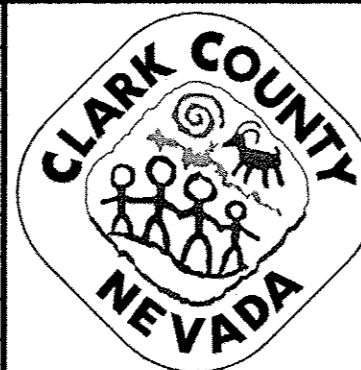
**NOTES:**

- CONTRACTOR SHALL PROVIDE DETAILS IN SHOP DRAWINGS FOR BOLTING GRATES TO FRAME.
- CONTRACTOR SHALL PROVIDE DETAILS IN SHOP DRAWINGS FOR A 24" x 24" HINGED GRATE WITH LOCK LOCATED OVER ACCESS STEPS.

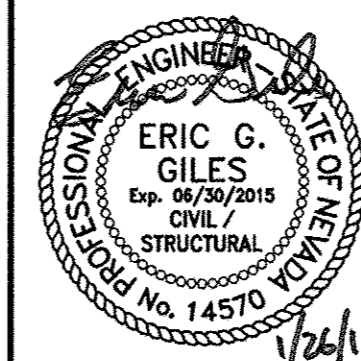
**DIMENSION "A"**

- "A" = 5'-0" FOR 10' x 8' RCB BELOW
- "A" = 4'-6" FOR 9' x 8' RCB BELOW
- "A" = 4'-0" FOR 8' x 6' RCB BELOW

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
ACCESS OPENING INTO RCB BELOW  
GRATE SUPPORT BEAM AND GRATE DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

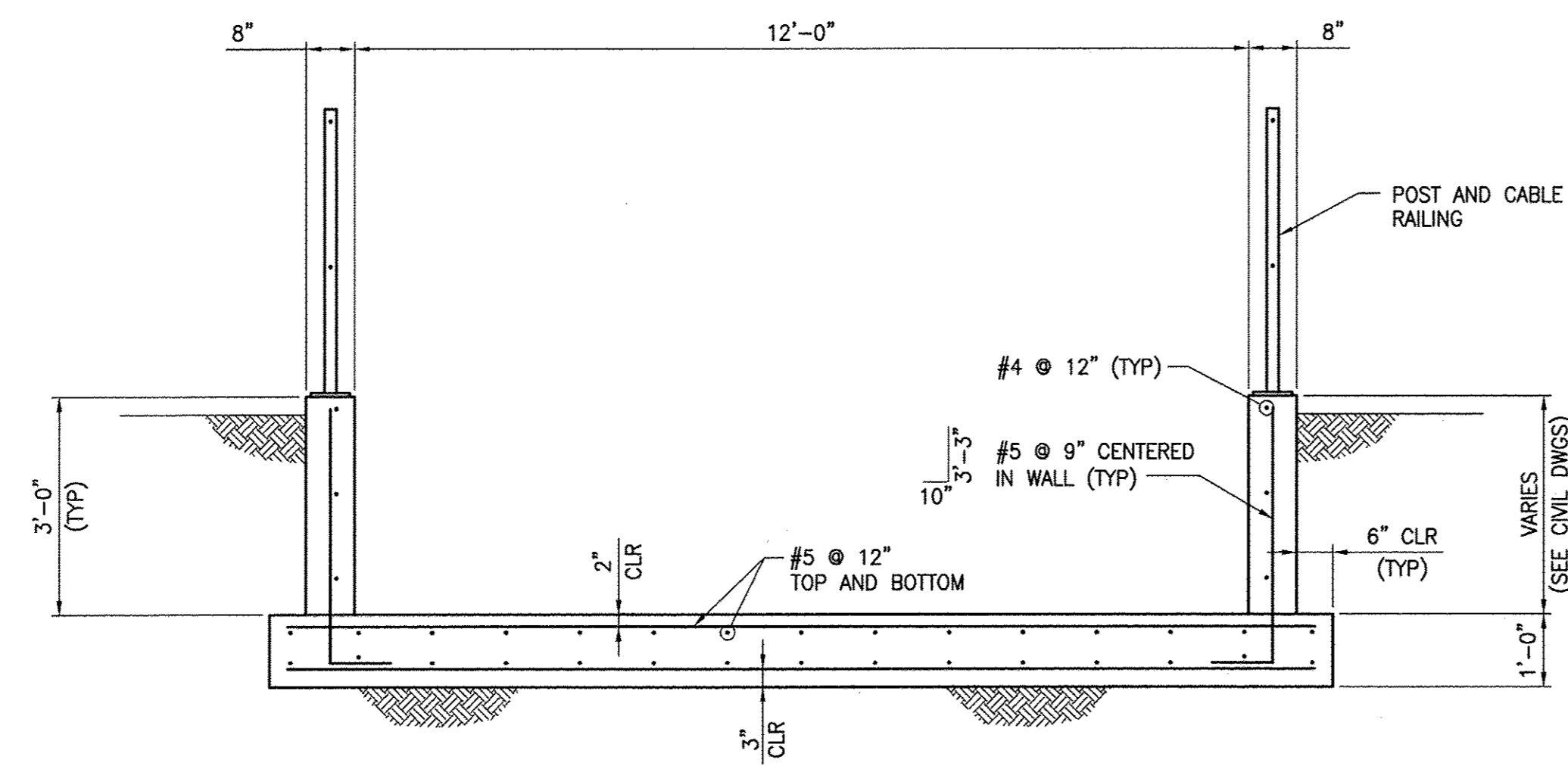


PROJECT No: 451.002.001 DRAWN BY: EGG  
DESIGNED BY: EGG CHECKED BY: DAT  
APPROVED BY: DAT

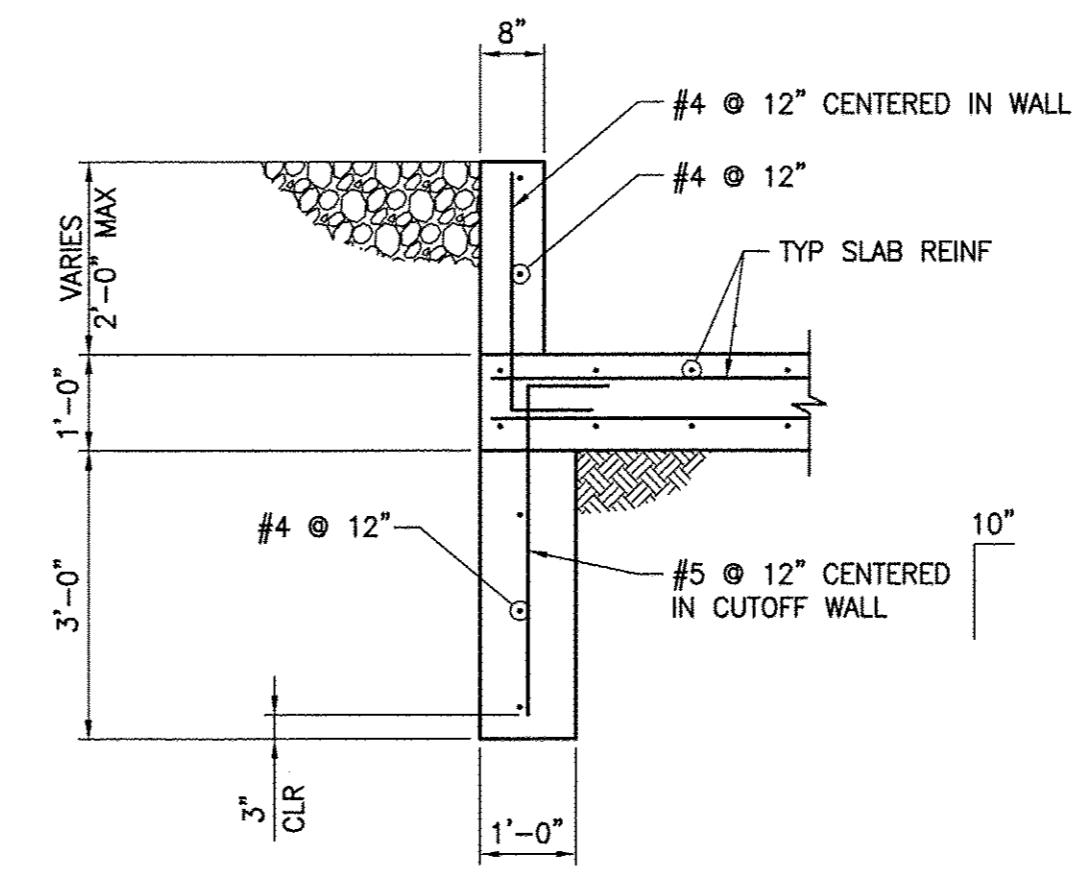
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1555 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 - F: 702.804.2299 - GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	AS SHOWN	
VERT:	AS SHOWN	
FIELD BOOK		CCPW PROJECT #
W.O. #: 2008-62		SHT. 598 OF 600

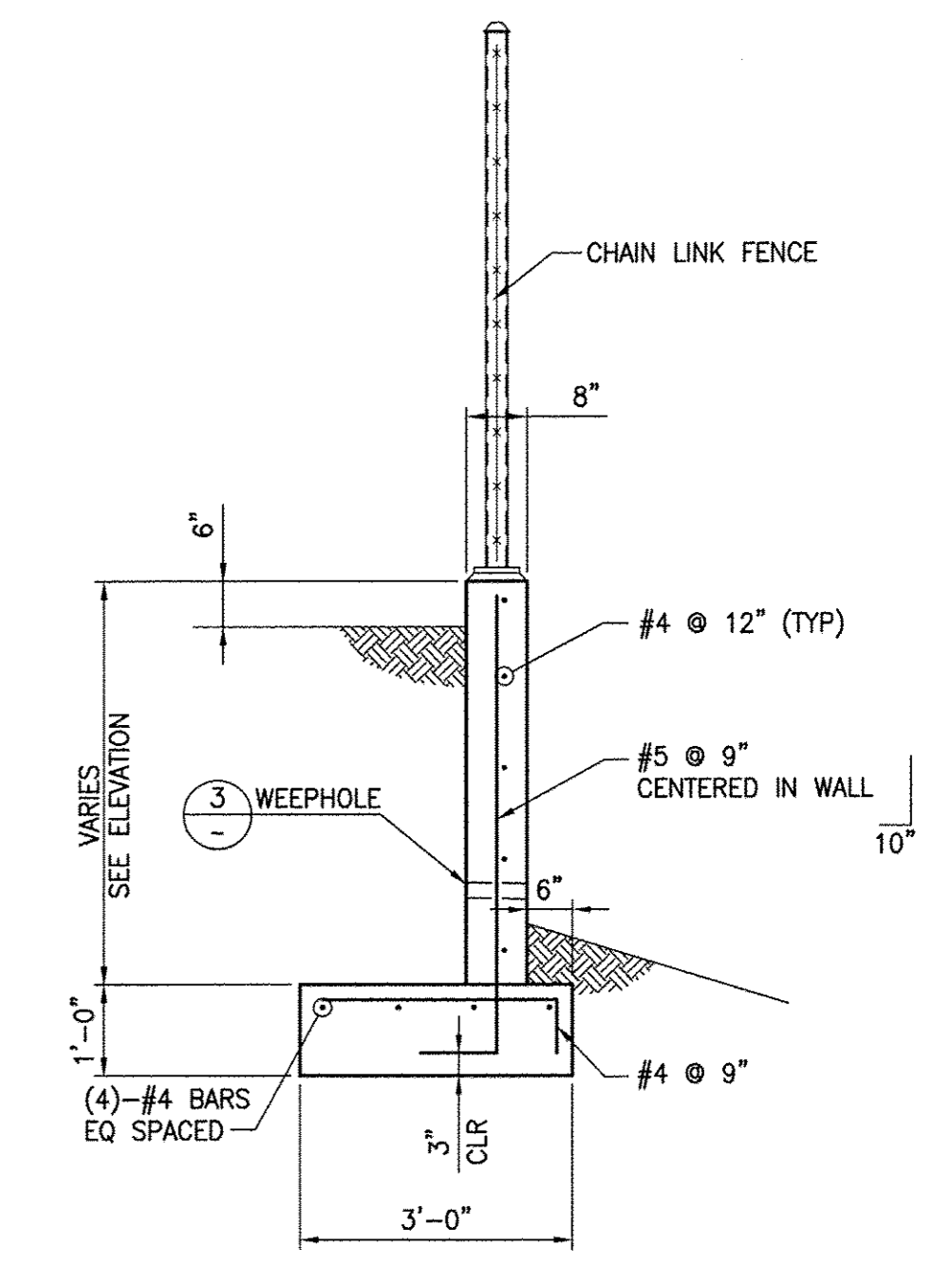
BID NO. 603576-15



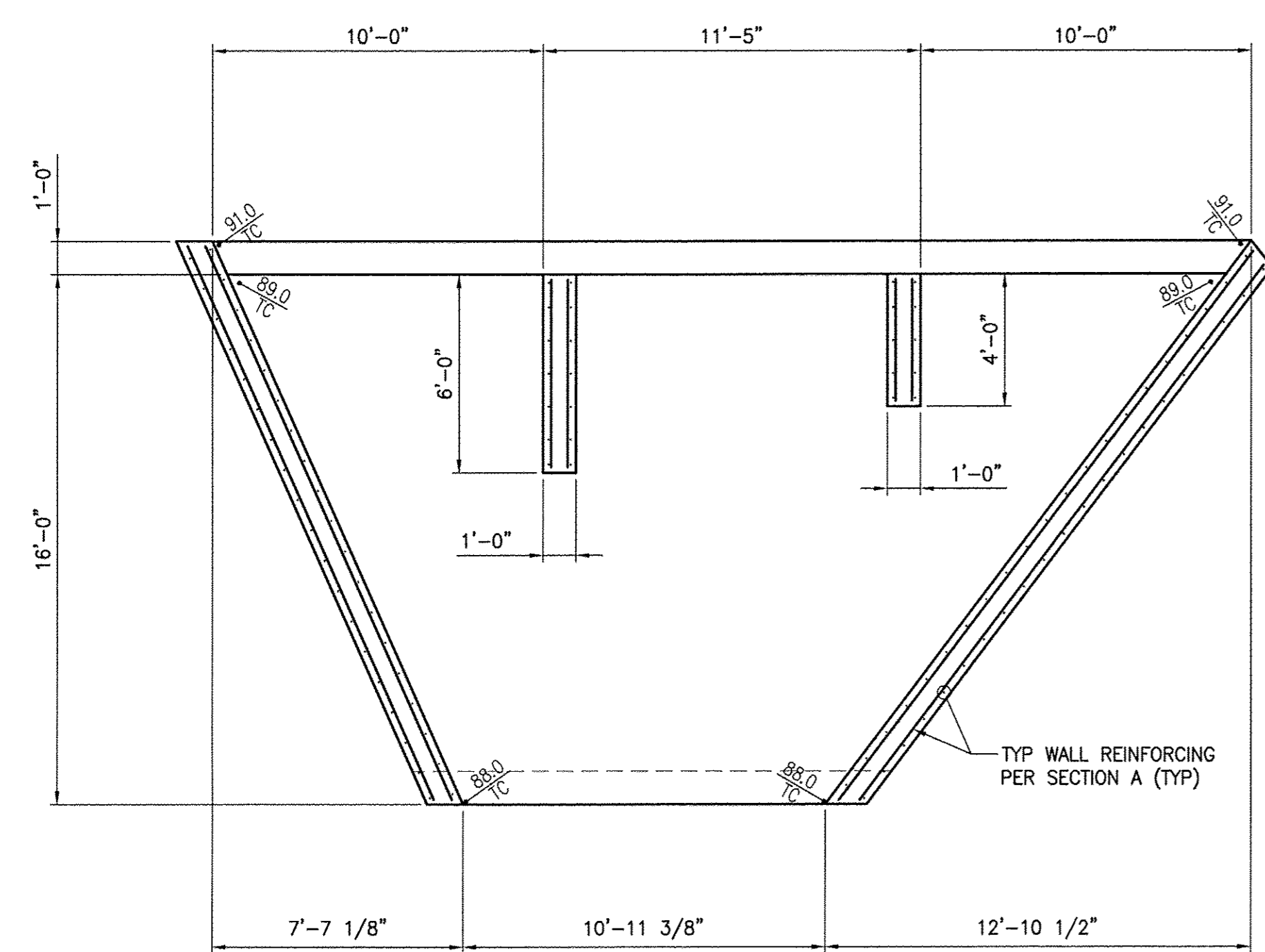
**D SECTION**  
SCALE: 1/2" = 1'-0"



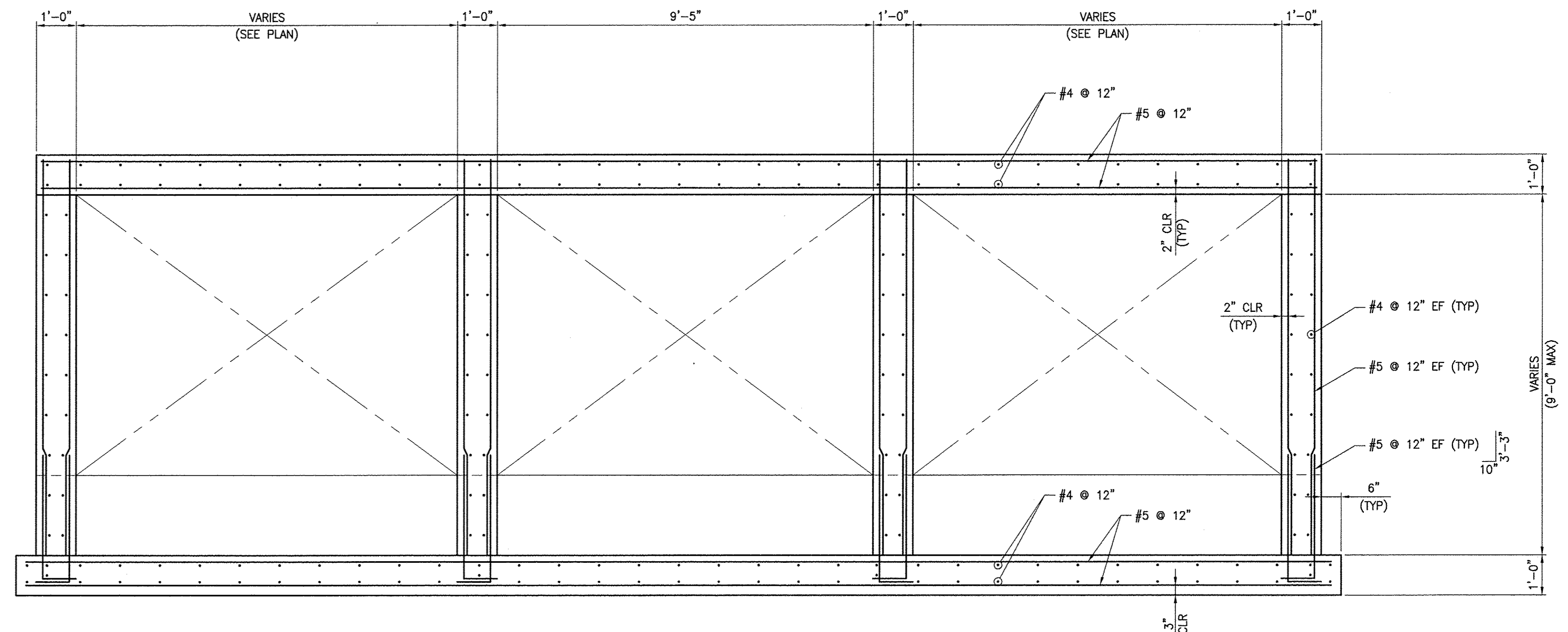
**C SECTION**  
SCALE: 1/2" = 1'-0"



**B SECTION**  
SCALE: 1/2" = 1'-0"



**1 PLAN (LID REMOVED)**  
SCALE: 1/4" = 1'-0"

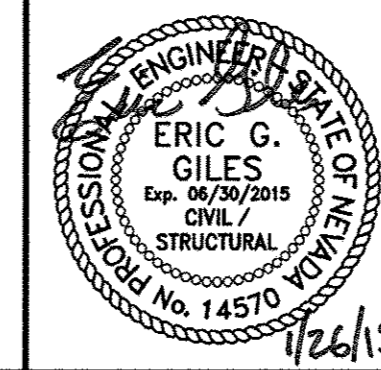


**A SECTION**  
SCALE: 1/2" = 1'-0"

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY**  
SDNDB-B3 NORTH BASIN TRANSITION/INLET STRUCTURE  
SECTIONS AND DETAILS  
CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS

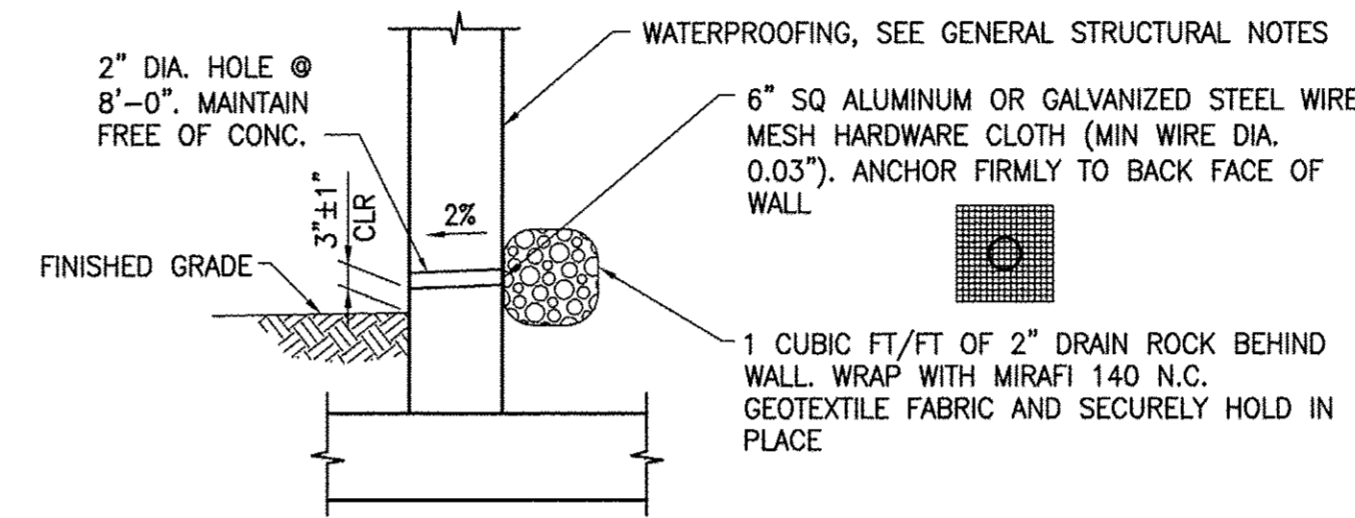


PROJECT No: 451.002.001 DRAWN BY: JMH  
DESIGNED BY: FEV CHECKED BY: FEV  
APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
ENGINEERS | PLANNERS | SURVEYORS  
1535 S. RAINBOW BOULEVARD - LAS VEGAS, NV 89146  
T: 702.804.2000 F: 702.804.2299 GCWALLACE.COM

SCALE		DRAWING NO.
HORIZ:	NONE	
VERT:	NONE	
FIELD BOOK		SHT. 599 OF 600
CCPW PROJECT #		
W.O. #:	2008-62	

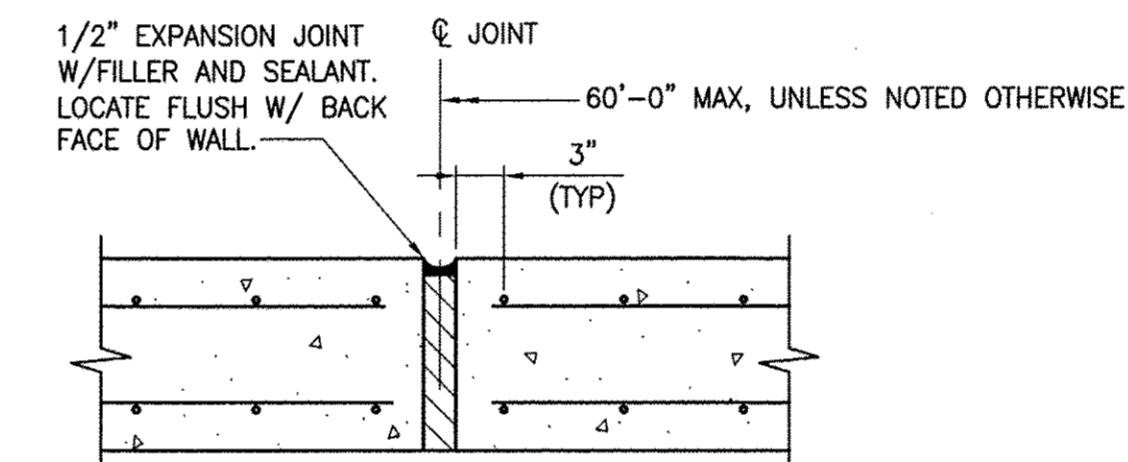
**CONCRETE RETAINING WALL NOTES:**

1. REFER TO GENERAL STRUCTURAL NOTES ON DRAWING NO. RS1 FOR ADDITIONAL INFORMATION.
2. PROVIDE EXPANSION JOINTS AND WEEPHOLES PER TYPICAL DETAILS ON THIS DRAWING.



**3 WEEPHOLE DETAIL**

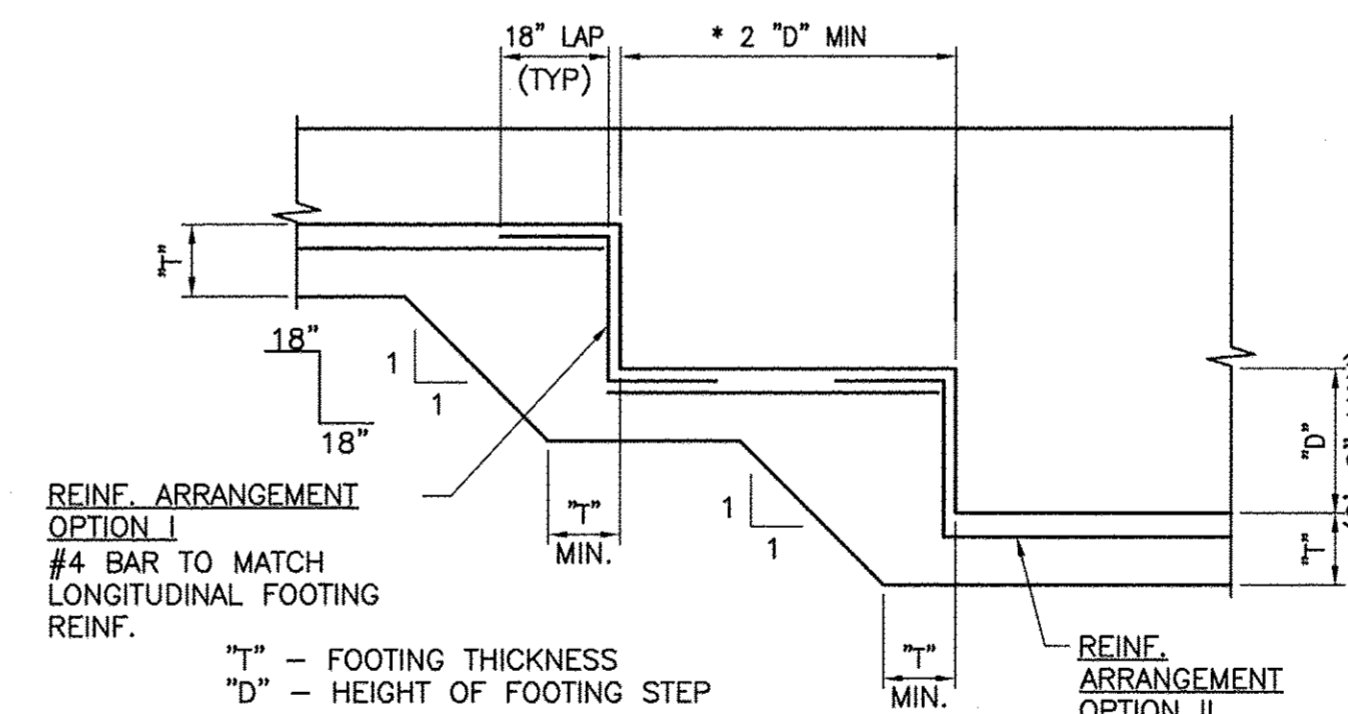
SCALE: NTS



NOTE: DO NOT CONTINUE HORIZONTAL REINFORCING THROUGH JOINT

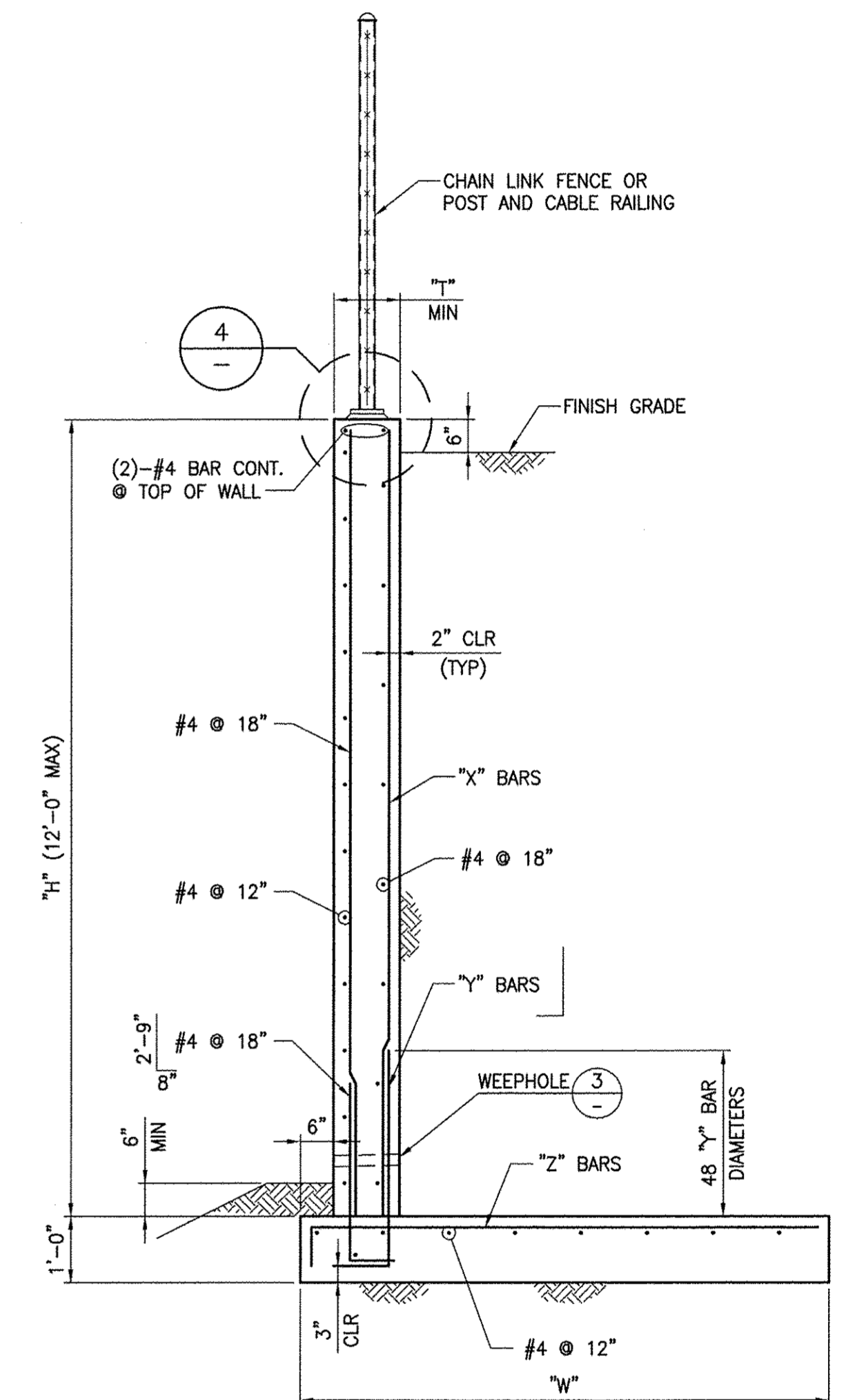
**2 WALL EXPANSION JOINT DETAIL**

SCALE: NTS



**1 STEPPED FOOTING DETAIL**

SCALE: NTS

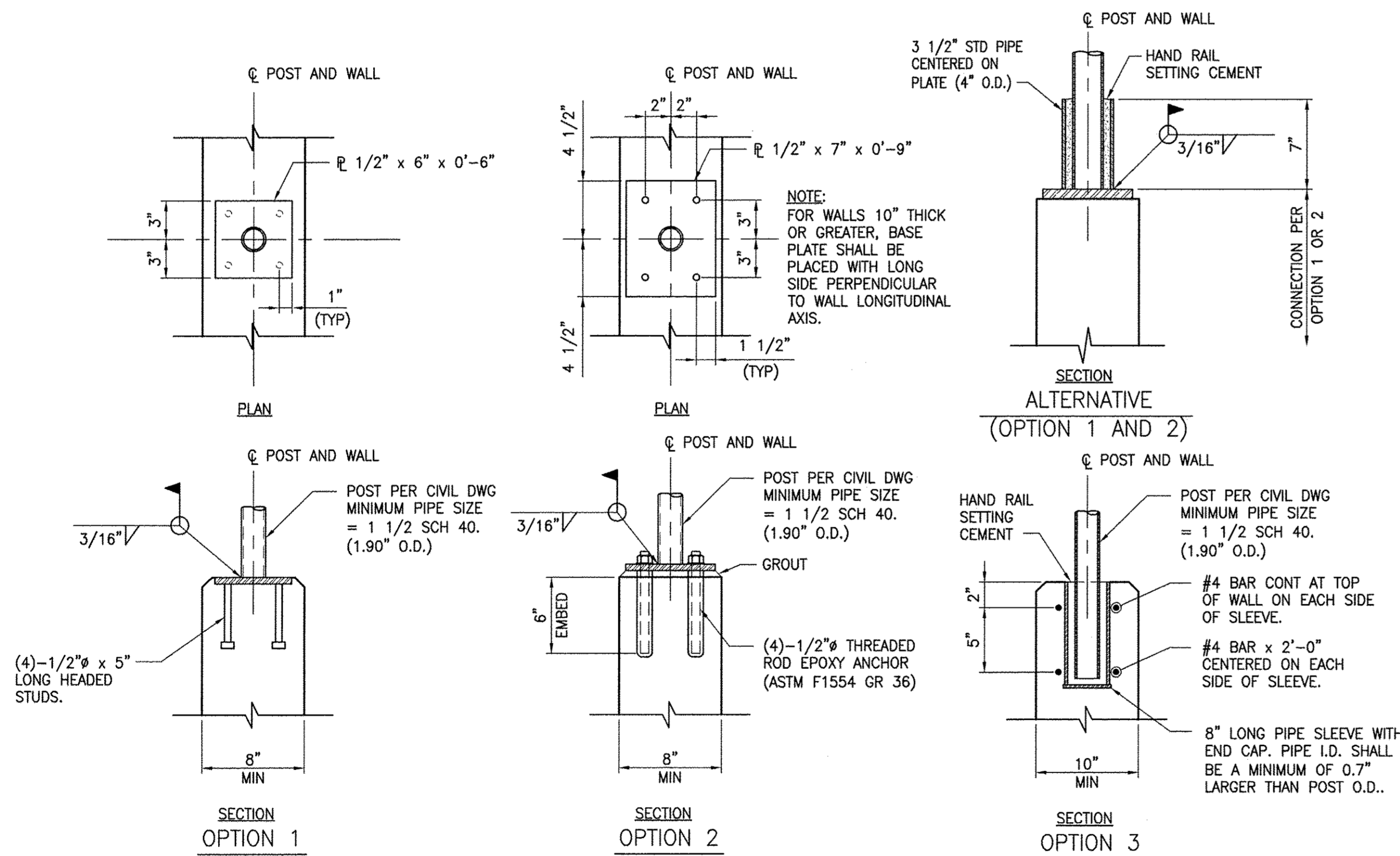


DIMENSIONS			"X"*	"Y"	"Z"
H	W	T	BARS	BARS	BARS
2'-0"	2'-0"	10"	#4 @ 12"	#4 @ 12"	#4 @ 12"
4'-0"	3'-0"	10"	#4 @ 12"	#4 @ 12"	#4 @ 12"
6'-0"	4'-3"	10"	#5 @ 12"	#5 @ 12"	#5 @ 12"
8'-0"	5'-6"	10"	#5 @ 8"	#5 @ 8"	#5 @ 8"
10'-0"	7'-0"	1'-0"	#5 @ 8"	#5 @ 8"	#5 @ 8"
12'-0"	8'-0"	1'-0"	#5 @ 6"	#5 @ 6"	#5 @ 6"

\*"X" BARS MAY BE ELIMINATED BY EXTENDING THE "Y" BARS TO THE TOP OF THE RETAINING WALL.

**A SECTION**

SCALE: 1/2" = 1'-0"



**4 POST CONNECTION DETAIL**

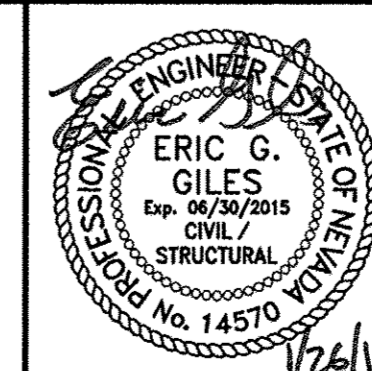
SCALE: NTS

REV. NO.	DATE	DESCRIPTION	APPROVED



**WESTERN CLARK COUNTY 215 BRUCE WOODBURY BELTWAY - CRAIG ROAD TO HUALAPAI WAY  
CONCRETE RETAINING WALL DETAILS**

CLARK COUNTY, NEVADA, DEPARTMENT OF PUBLIC WORKS



PROJECT No: 451.002.001 DRAWN BY: JMH  
 DESIGNED BY: FEV CHECKED BY: FEV  
 APPROVED BY: FEV  
**G. C. WALLACE COMPANIES**  
 ENGINEERS | PLANNERS | SURVEYORS  
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SCALE  
 HORIZ: NONE  
 VERT: NONE  
 FIELD BOOK  
 CCPW PROJECT #  
 W.O. #: 2008-62

DRAWING NO.  
**RS32**  
 SHT. 600 OF 600