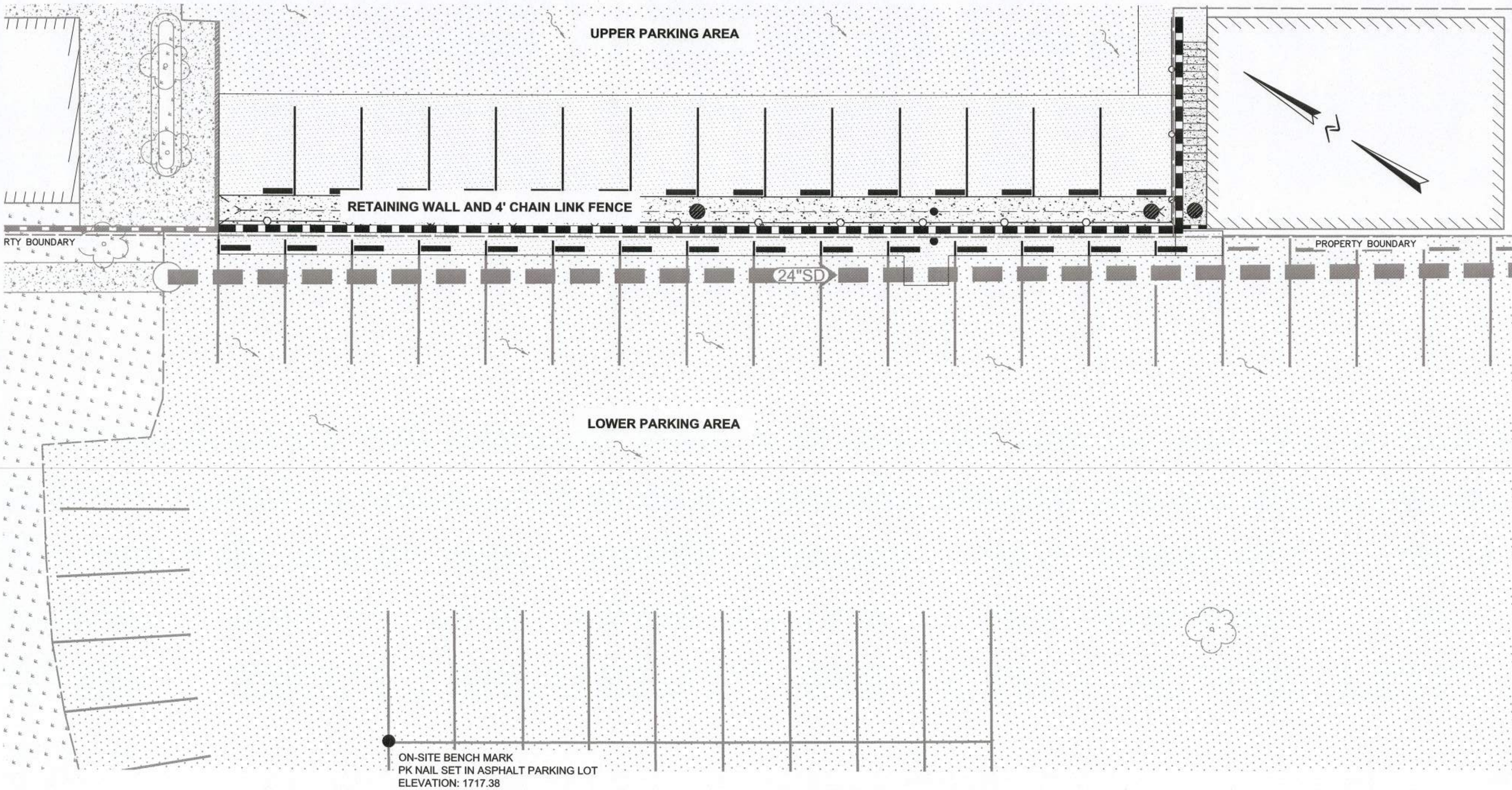


RETAINING WALL & PARKING LOT PLAN
SONORA REGIONAL MEDICAL CENTER
THE CITY OF SONORA, TUOLUMNE COUNTY



ON-SITE BENCH MARK
PK NAIL SET IN ASPHALT PARKING LOT
ELEVATION: 1717.38

CONTACTS

CIVIL ENGINEER
ARDURRA GROUP, INC.
CONTACT: NICK PRICHARD, P.E.
440 S. YOSEMITE AVENUE
OAKDALE, CA 95361
PHONE: (209) 847-8726

PROJECT MANAGER
OFFICE OF DESIGN & CONSTRUCTION ADVENTIST HEALTH
CONTACT: TYLER GILMAN, SENIOR PROJECT MANAGER
ONE ADVENTIST HEALTH WAY 3N
ROSEVILLE, CA 95661
PHONE: (559) 537-0073

ARCHITECT
PRATT ARCHITECTURE
CONTACT: PAUL PRATT
1207 13TH STREET, SUITE 6
MODESTO, CA 95354
PHONE: (209) 248-7028

SURVEYOR'S STATEMENT:

SURVEY DATA CONTAINED WITHIN THIS PLAN INCLUDING
PROPERTY LINES, RIGHT-OF-WAY LINES, FOUND SURVEY
MONUMENTS, DEDICATIONS, EASEMENTS, BEARINGS AND
DISTANCES, EXISTING ELEVATIONS, LOCATIONS OF EXISTING
IMPROVEMENTS AND ALL OTHER SURVEY RELATED ITEMS
WERE PREPARED BY ME, OR UNDER MY DIRECTION.

KEVIN S. COLE, LS 8853
PROFESSIONAL LAND SURVEYOR



LEGEND

- EXISTING**
- EX PROPERTY LINE
 - EX RIGHT-OF-WAY (R.O.W.)
 - EX CURB & GUTTER
 - EX PAVEMENT (EP)
 - EX STORM LINE
 - EX SPOT ELEVATION
 - EX JOINT POLE
 - EX FENCE
 - EX CONCRETE
 - EX ASPHALT CONCRETE
 - EX GROUND

- PROPOSED**
- PROPOSED FINISH GRADES
 - PROPOSED 8" RETAINING WALL
 - PROPOSED 4' CHAIN LINK FENCE
 - STORM DRAIN PIPELINE
 - PROPOSED AREA DRAIN
 - PROPOSED DEMOLITION
 - PROPOSED ASPHALT CONCRETE

ABBREVIATIONS

@	AT	L.F.	LINEAR FEET
AD	AREA DRAIN	MAX	MAXIMUM
BC	BEGINNING OF CURVE	MH	MAINTENANCE HOLE/MAN HOLE
BDRY	BOUNDARY	N	NORTH
BOF	BOTTOM OF FOOTING	NTS	NOT TO SCALE
BW	GROUND AT BACK OF WALL	OG	ORIGINAL GROUND/GRADE
BVC	BEGINNING OF VERTICAL CURVE	O.C.	ON CENTER
C	CONCRETE	P	PAVEMENT
CIP	CAST IRON PIPE	POC	POINT OF CURVE
CL or CL	CENTERLINE	PP	POWER POLE
CLSD	CLOSED	PL	PROPERTY LINE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVE
CTB	CONTROL BOX	PT	POINT
CY	CUBIC YARD	PUE	PUBLIC UTILITY EASEMENT
DET	DETAIL	PVC	POLYVINYL CHLORIDE PIPE
DIA	DIAMETER	PVI	POINT OF VERTICAL INTERSECTION
DW	DRIVEWAY	R	RADIUS
D OR SD	STORM DRAIN	RET	RETURN
D/S	DOWNSTREAM	R.O.W.	RIGHT OF WAY
ELEV	ELEVATION	SCH	SCHEDULE
EP	EDGE OF PAVEMENT	SHT	SHEET
ESMT	EASEMENT	S.F.	SQUARE FEET
EVC	END VERTICAL CURVE	STA	STATION
EX OR EXIST	EXISTING	STD	STANDARD
FD	FLOOR DRAIN	SW	SIDEWALK
FG	FINISH GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	TBC	TOP BACK OF CURB
FL	FLOW LINE	TEMP	TEMPORARY
GB	GRADE BREAK	THRU	THROUGH
GND	GROUND / GROUND AT FACE OF WALL	TOF	TOP OF FOOTING
GR	GRATE	TOW	TOP OF WALL
HGL	HYDRAULIC GRADE LINE	US	UPSTREAM
HORIZ	HORIZONTAL	WS	WATER SURFACE
INV	INVERT		

SHEET INDEX

SHT #	SHEET DESCRIPTION
C-01	COVER SHEET
C-02	GENERAL NOTES
C-03	DEMOLITION & SITE PLAN
C-04	GRADING & DRAINAGE PLAN
S-01	STRUCTURAL - RETAINING WALL PROFILE
S-02	STRUCTURAL - RETAINING WALL TYPICAL SECTION AND DETAILS

JOB COPY

APPROVED
Approval of these plans does not authorize
or approve any omission or deviation from
requirements of State laws or local ordinances.
One set of approved plans shall be
available on the project site at all times.
CITY OF SONORA BUILDING DEPARTMENT
NO. 1221-0025
DATE 4/22/25 BY [Signature]

WDID No. EXEMPT



VICINITY MAP
NOT TO SCALE

DIGALERT
1-800-227-2600
CALL 2 FULL WORKING DAYS IN ADVANCE

REVISIONS	DESCRIPTION	DATE	APPROVED
REV #	DEMO/CONSTRUCTION OF SHALL WALL	1/24/2025	

440 S. Yosemite Avenue, Suite A
Oakdale, CA 95361
Phone: (209) 847-8726
www.Ardurra.com

ARDURRA
COLLABORATE. INNOVATE. CREATE.

COVER SHEET
RETAINING WALL & PARKING LOT PLAN
SONORA REGIONAL MEDICAL CENTER
179 FAIRVIEW LANE, SONORA, CALIFORNIA

SCALE	NONE
DRAWN BY	KC
DESIGNED BY	NWP
CHECKED BY	KH
DATE	1/31/2025

SHEET
C-01
OF 6
JOB NO.
23174

S:\PROJECTS\2023\23174\Drawings\PlanSheets\C-01 COVER SHEET.dwg 1/31/2025 9:08am

- THE ENGINEER ASSUMES NO RESPONSIBILITY BEYOND THE ADEQUACY OF HIS DESIGN CONTAINED HEREIN.
2. THESE IMPROVEMENT PLANS HAVE BEEN PREPARED WITH THE INTENT THAT THE FIRM OF ARDURRA GROUP, INC., WILL BE PERFORMING THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. IF, HOWEVER, ANOTHER ENGINEERING AND/OR SURVEYING FIRM SHOULD BE EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT THE FIRM OF ARDURRA GROUP, INC., WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF ARDURRA GROUP, INC. HAD PERFORMED THE STAKING WORK.
3. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
4. CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS.
5. ALL CONSTRUCTION MATERIALS AND METHODS SHALL COMPLY WITH THE ORDINANCES, SPECIFICATIONS AND STANDARDS OF THE CITY OF SONORA AND/OR TUOLUMNE COUNTY.
6. UTILITIES AND UNDERGROUND FACILITIES INDICATED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND DEPTH WITH THE APPROPRIATE AGENCIES. NEITHER THE OWNER NOR THE ENGINEER ASSUMES RESPONSIBILITY THAT THE UTILITIES AND UNDERGROUND FACILITIES INDICATED WILL BE THE UTILITIES AND UNDERGROUND FACILITIES ENCOUNTERED. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (U.S.A.) TO LOCATE ALL UTILITIES (800) 227-2600.
7. THE CONTRACTOR IS RESPONSIBLE FOR MATCHING EXISTING STREETS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC., AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
8. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR FINAL GRADE OF CONCRETE UNLESS FORMS ARE CHECKED PRIOR TO POURING.
9. CONTRACTOR SHALL POST ON THE SITE, EMERGENCY TELEPHONE NUMBERS FOR PUBLIC WORKS, AMBULANCE, POLICE AND FIRE DEPARTMENTS.
10. BENCHMARK: NGS BENCHMARK HS0906, BRASS DISK SET IN THE TOP OF THE SOUTH END OF THE WEST RETAINING WALL OVER WOODS CREEK AT THE INTERSECTION OF HIGHWAY 49 AND FOREST STREET IN SONORA, CA. ELEVATION = 1707.98, NAVD 88

ON-SITE BENCH MARK: PK NAIL SET IN LOWER PARKING LOT ASPHALT AT CENTER STRIPED PARKING AREA. ELEVATION = 1717.38
11. ALL WORK FOR STORM DRAIN AND SANITARY SEWER INSTALLATIONS SHALL BEGIN AT THE DOWNSTREAM CONNECTION POINT, THIS WILL ALLOW FOR ANY NECESSARY ADJUSTMENTS TO BE MADE PRIOR TO THE INSTALLATION OF THE ENTIRE LINE. IF THE CONTRACTOR FAILS TO BEGIN AT THE DOWNSTREAM CONNECTION POINT AND WORK UP STREAM, HE SHALL PROCEED AT HIS OWN RISK AND BE RESPONSIBLE FOR ANY NECESSARY ADJUSTMENTS.
12. CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
13. THE CONTRACTOR SHALL BE HELD SOLELY RESPONSIBLE FOR ANY CHANGES MADE WITHOUT THE WRITTEN AUTHORIZATION FROM ARDURRA GROUP, INC.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY AND CONSTRUCTION STAKES. SURVEY AND CONSTRUCTION STAKES THAT ARE LOST OR DESTROYED DUE TO THE CONTRACTOR'S NEGLIGENCE WILL BE RESET AT THE EXPENSE OF THE CONTRACTOR.

NOTE: THESE PLANS ARE APPROVED SUBJECT TO:

1. ALL GRADING IS SUBJECT TO OBSERVATION BY THE CITY, THE CONTRACTOR SHALL NOTIFY THE CITY OF SONORA AND/OR TUOLUMNE COUNTY DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS BEFORE THE START OF ANY GRADING.
2. THE GEOTECHNICAL ENGINEER FOR THIS PROJECT IS:
KRAZAN & ASSOCIATES, INC.
CONTACT: GEORGE P. HATTRUP, SENIOR GEOTECHNICAL ENGINEER, RGE No. 2353 / RCE No. 43979
OFFICE: 448 MITCHELL ROAD, SUITE C, MODESTO, CA 95354
PHONE: (559) 348-2200
3. THE GEOTECHNICAL REPORT FOR THIS PROJECT IS:
LIMITED GEOTECHNICAL ENGINEERING STUDY, KA PROJECT No. 072-23089
RETAINING WALL REPLACEMENT PROJECT
SONORA COMMUNITY HOSPITAL, 179 FAIRVIEW LANE, SONORA, CA
4. THE GEOTECHNICAL REPORT FOR THIS PROJECT IS A CONTRACT DOCUMENT AND THE CONTRACTOR SHALL PERFORM ALL EARTHWORK ACCORDING TO THE REQUIREMENTS OF THE GEOTECHNICAL REPORT LISTED ABOVE.
5. APPROVAL OF THIS PLAN APPLIES ONLY TO THE EXCAVATION, PLACEMENT, AND COMPACTION OF NATURAL EARTH MATERIALS. THIS APPROVAL DOES NOT CONFER ANY RIGHTS OF ENTRY TO EITHER PUBLIC PROPERTY OR THE PRIVATE PROPERTY OF OTHERS. APPROVAL OF THIS PLAN ALSO DOES NOT CONSTITUTE APPROVAL OF ANY IMPROVEMENTS. PROPOSED IMPROVEMENTS ARE SUBJECT TO REVIEW AND APPROVAL BY THE RESPONSIBLE AUTHORITIES AND ALL OTHER REQUIRED PERMITS SHALL BE OBTAINED.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES.
7. THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.
8. ALL KNOWN WELL LOCATIONS ON THE SITE HAVE BEEN INCLUDED AND SUCH WELLS SHALL BE MAINTAINED OR ABANDONED ACCORDING TO CURRENT REGULATIONS ADMINISTERED BY THE CITY OF SONORA AND/OR TUOLUMNE COUNTY DEPARTMENT OF PUBLIC WORKS AND THE SAN JOAQUIN COUNTY ENVIRONMENTAL RESOURCES.
9. IF ANY ARCHEOLOGICAL, CULTURAL OR HISTORICAL RESOURCES, OR ARTIFACTS OR OTHER FEATURES ARE DISCOVERED DURING THE COURSE OF CONSTRUCTION ANYWHERE ON THE PROJECT SITE, WORK SHALL BE SUSPENDED IN THAT LOCATION UNTIL A QUALIFIED PROFESSIONAL ARCHEOLOGIST ASSESSES THE SIGNIFICANCE OF THE DISCOVERY. THE PLANNING DEPARTMENT SHALL BE NOTIFIED OF ANY FINDS AND APPROPRIATE MEASURES AGREED UPON PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. (MITIGATION MEASURE)
10. ALL SITE GRADING AND CONSTRUCTION SHALL COMPLY WITH SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT'S REGULATION 8 FOR FUGITIVE DUST CONTROL AND PROJECT ISR. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL AT THE CONTRACTOR'S EXPENSE AT ALL TIMES, INCLUDING WEEKENDS, DURING THE COURSE OF THE PROJECT.
11. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREIN OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REPLACED UNDER OBSERVATION AT THE CONTRACTOR'S EXPENSE.

1. WATER POLLUTION PREVENTION SHALL COMPLY WITH THE GENERAL PERMIT FOR DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES - ORDER 2022-0057-DWQ AS ISSUED BY THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD (EFFECTIVE SEPTEMBER 1, 2023). THE CONTRACTOR SHALL EXERCISE EVERY REASONABLE PRECAUTION TO PROTECT STREAMS, LAKES, RESERVOIRS, BAYS, AND COASTAL WATERS FROM POLLUTION WITH FUELS, OILS, CHEMICALS, CALCIUM CHLORIDE AND OTHER HARMFUL MATERIALS AND SHALL CONDUCT AND SCHEDULE OPERATIONS SO AS TO AVOID OR MINIMIZE MUDDYING AND SILTING OF STREAMS, LAKES, RESERVOIRS, BAYS AND COASTAL WATERS. CARE SHALL BE EXERCISED TO PRESERVE ROADSIDE VEGETATION BEYOND THE LIMITS OF CONSTRUCTION.
2. WATER POLLUTION CONTROL WORK IS INTENDED TO PROVIDE PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION TO STREAMS, WATERWAYS AND OTHER BODIES OF WATER, AND SHALL CONSIST OF CONSTRUCTING THOSE FACILITIES WHICH MAY BE SHOWN ON THE PLANS, SPECIFIED HEREIN OR IN THE SPECIAL PROVISIONS, OR DIRECTED BY THE ENGINEER.
3. EROSION CONTROL FACILITIES AND MEASURES ARE TO BE INSTALLED AND OPERABLE PRIOR TO BEGINNING CONSTRUCTION, AND SHALL CONTINUE IN EFFECT UNTIL INSTALLATION OF THE PERMANENT PROJECT LANDSCAPING/EROSION CONTROL BEST MANAGEMENT PRACTICES (BMP'S), AS REQUIRED. ALL WORK SHALL COMPLY WITH THE ATTACHED EROSION CONTROL PLAN AND SWPPP (IF APPLICABLE).
4. ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE STORM DRAINAGE SYSTEM, BODIES OF WATER OR ADJACENT PROPERTIES.
5. ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED BY THE CONTRACTOR AND REPAIRED, AS REQUIRED, AT THE CONCLUSION OF EACH WORKING DAY DURING THE RAINY SEASON. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL FACILITIES AND MAKE NECESSARY REPAIRS THEREOF PRIOR TO ANTICIPATED STORMS, AND SHALL PERIODICALLY INSPECT THE SITE AT REASONABLE INTERVALS DURING THE STORMS OF EXTENDED DURATION. REPAIRS TO DAMAGED FACILITIES SHALL BE REPAIRED IMMEDIATELY.
6. THE WQID NO. FOR THIS PROJECT IS: EXEMPT

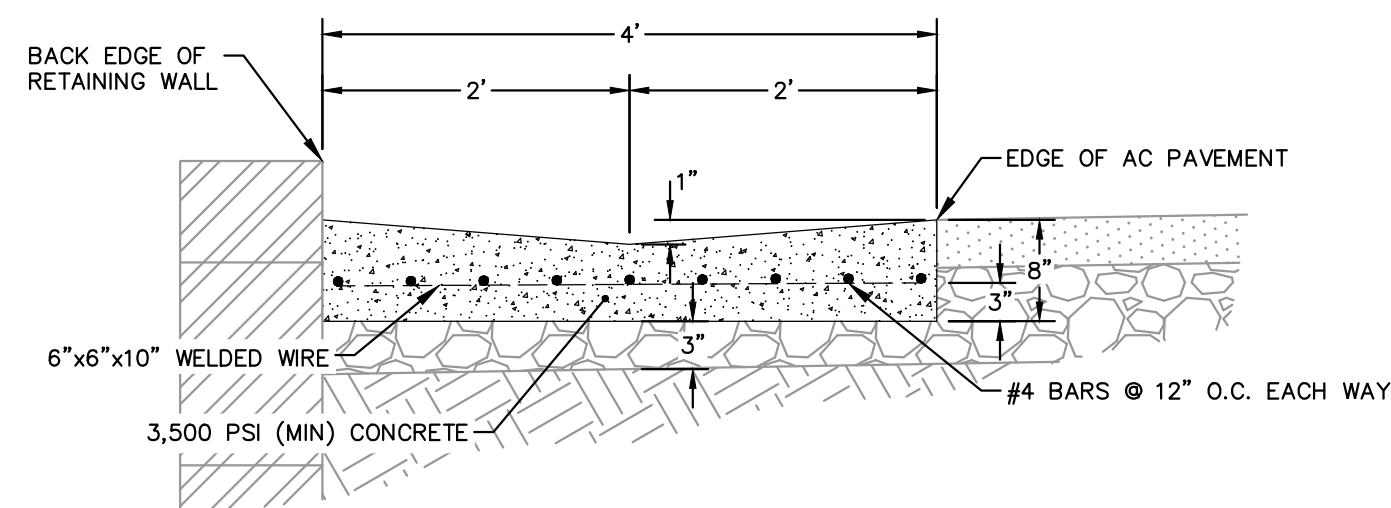
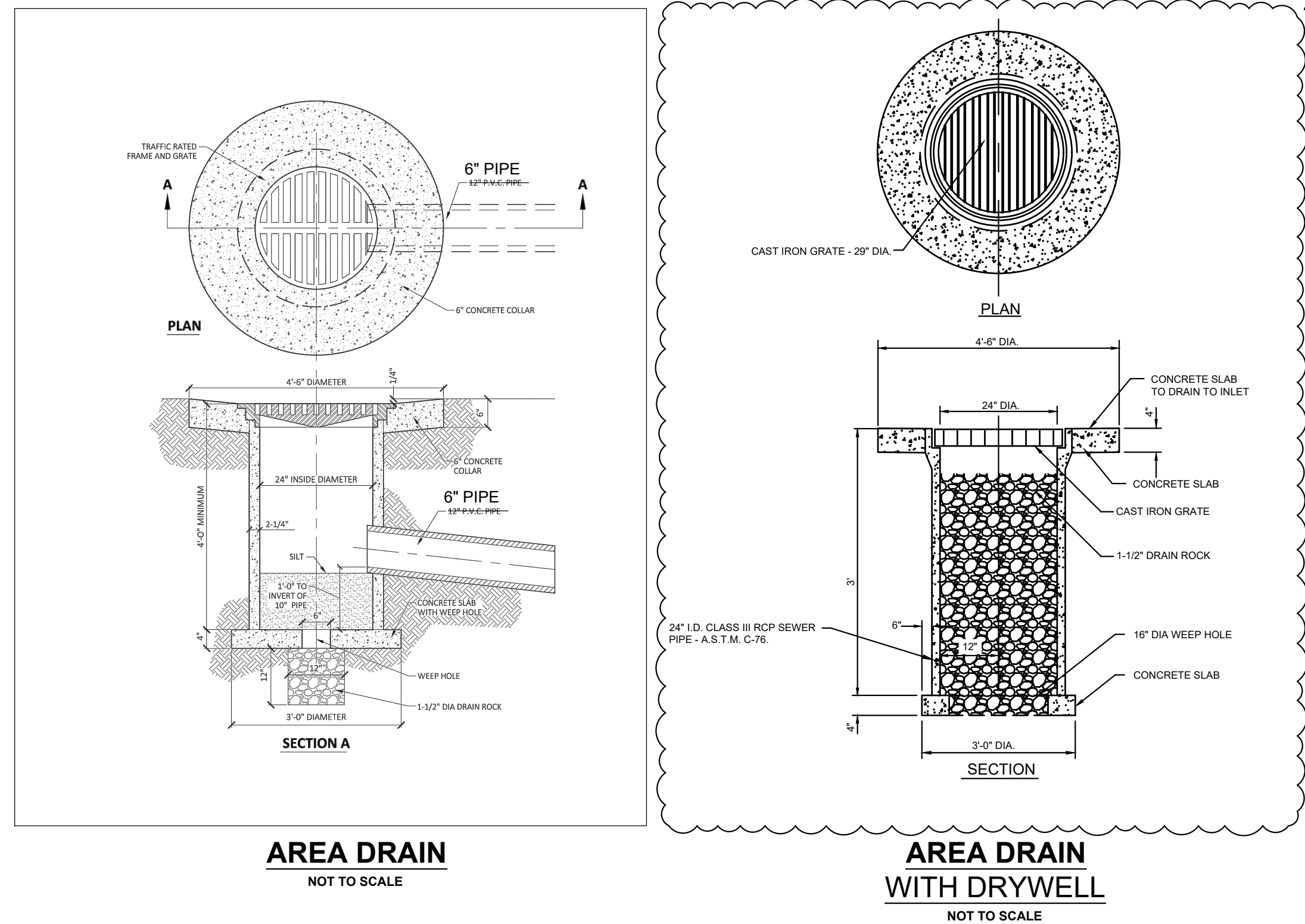
CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING MONUMENTS WHICH CONTROL SUBDIVISIONS, TRACTS, BOUNDARIES, STREETS, HIGHWAYS, EASEMENTS, OR OTHER RIGHT-OF-WAY. EASEMENTS OR PROVIDE SURVEY CONTROL WHICH WILL BE DISTURBED OR REMOVED DUE TO CONTRACTOR'S WORK. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 WORKING DAYS NOTICE TO PROJECT ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. PROJECT ENGINEER/SURVEYOR SHALL COORDINATE WITH CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE CITY, COUNTY, AND/OR STATE.

1. ON-SITE PIPING SHALL BE AS PER THE TABLE BELOW (UNLESS SPECIFIED OTHERWISE):

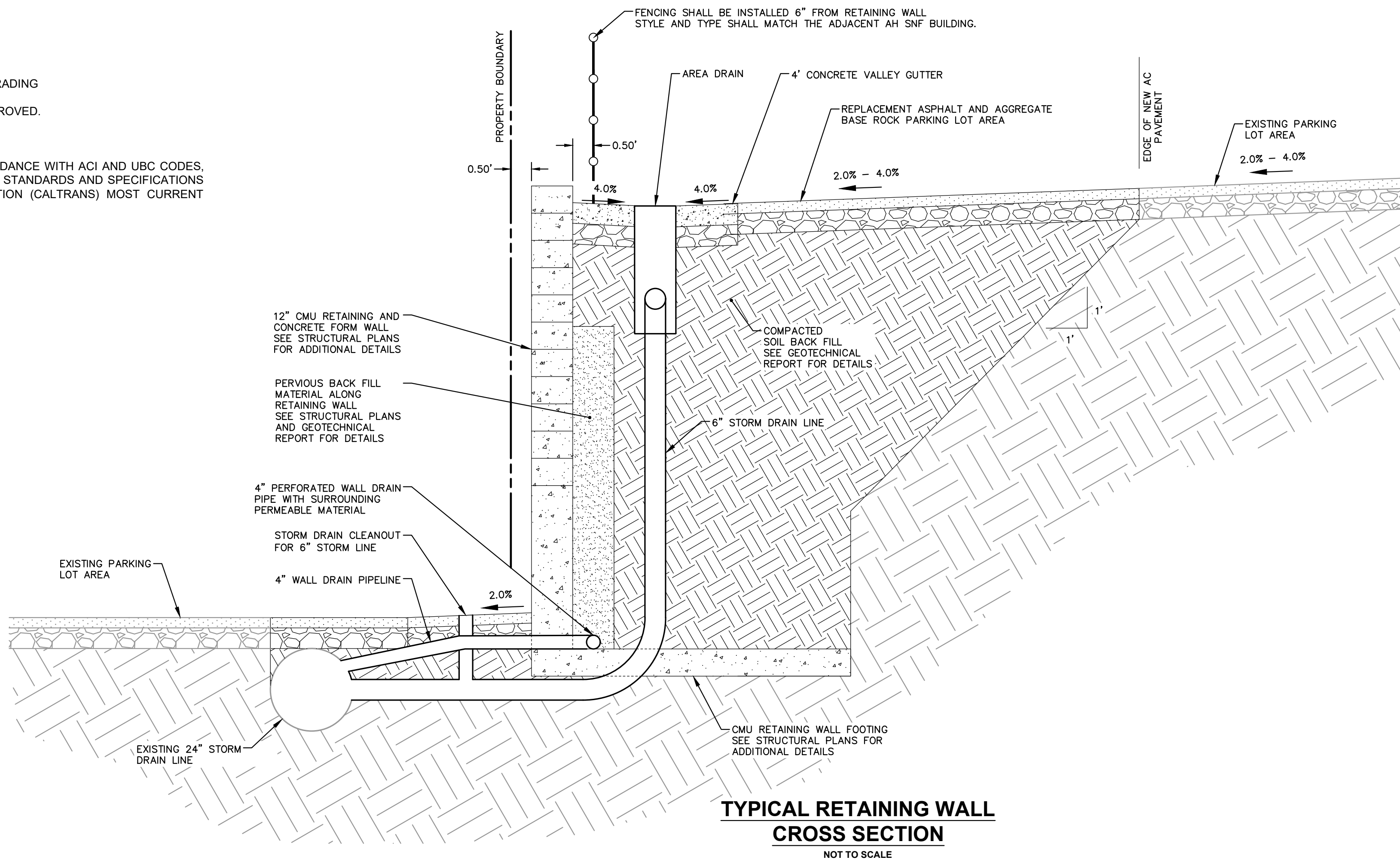
- STORM:
24" AND SMALLER - P.V.C. TYPE SDR 26

1. ALL MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE MOST CURRENT CITY OF SONORA AND/OR TUOLUMNE COUNTY STANDARDS AND SPECIFICATIONS AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MOST CURRENT STANDARD SPECIFICATIONS.
2. TYPE A ASPHALT SHALL CONFORM TO THE CITY OF SONORA AND/OR TUOLUMNE COUNTY AND CURRENT CALTRANS STATE SPECIFICATIONS.

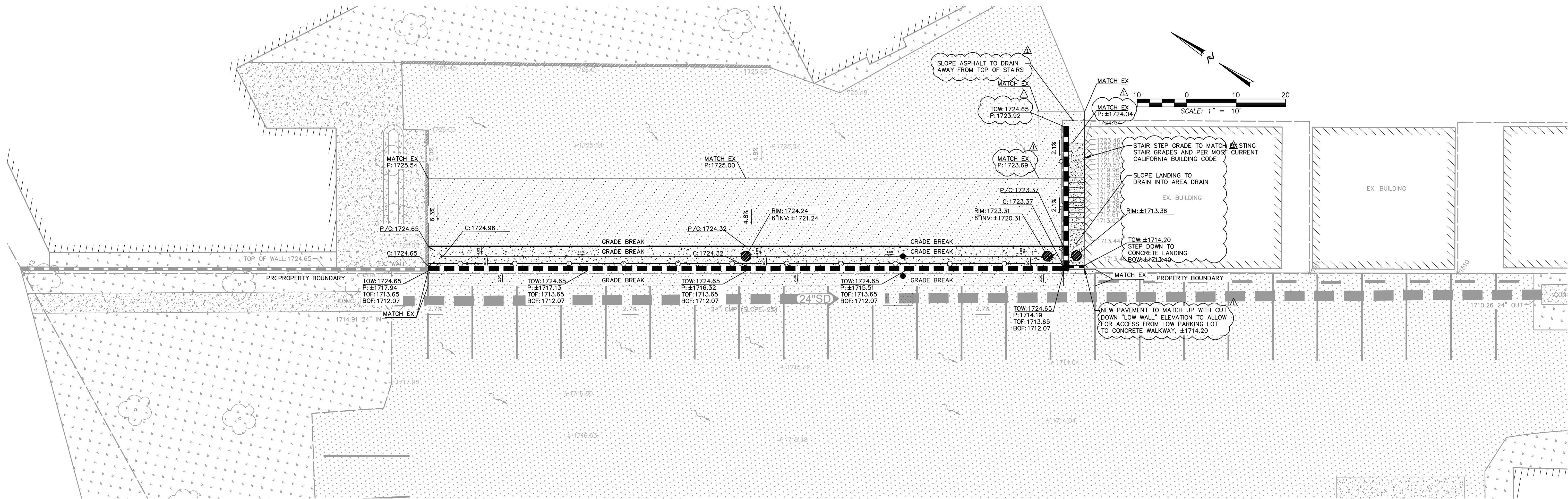
MINIMUM AND MAXIMUM ASPHALT LIFTS SHALL BE:
 - 0.15' TO LESS THAN 0.20' FOR $\frac{1}{2}$ " GRADATION
 - 0.20' TO LESS THAN 0.25' FOR $\frac{3}{4}$ " GRADATION
IF MULTIPLE ASPHALT LIFTS ARE TO BE USED IN THE PROJECT:
 - BASE COURSE SHALL BE TYPE A WITH $\frac{1}{2}$ " MEDIUM GRADING.
 - FINAL COURSE SHALL BE TYPE A WITH $\frac{3}{4}$ " MAXIMUM MEDIUM GRADING
TACK COAT SHALL BE SS-1H ASPHALT EMULSION UNLESS OTHERWISE APPROVED.
3. CONCRETE
 - A. GENERAL - ALL CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ACI AND UBC CODES, THE MOST CURRENT CITY OF SONORA AND/OR TUOLUMNE COUNTY STANDARDS AND SPECIFICATIONS AND THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) MOST CURRENT STANDARD SPECIFICATIONS.



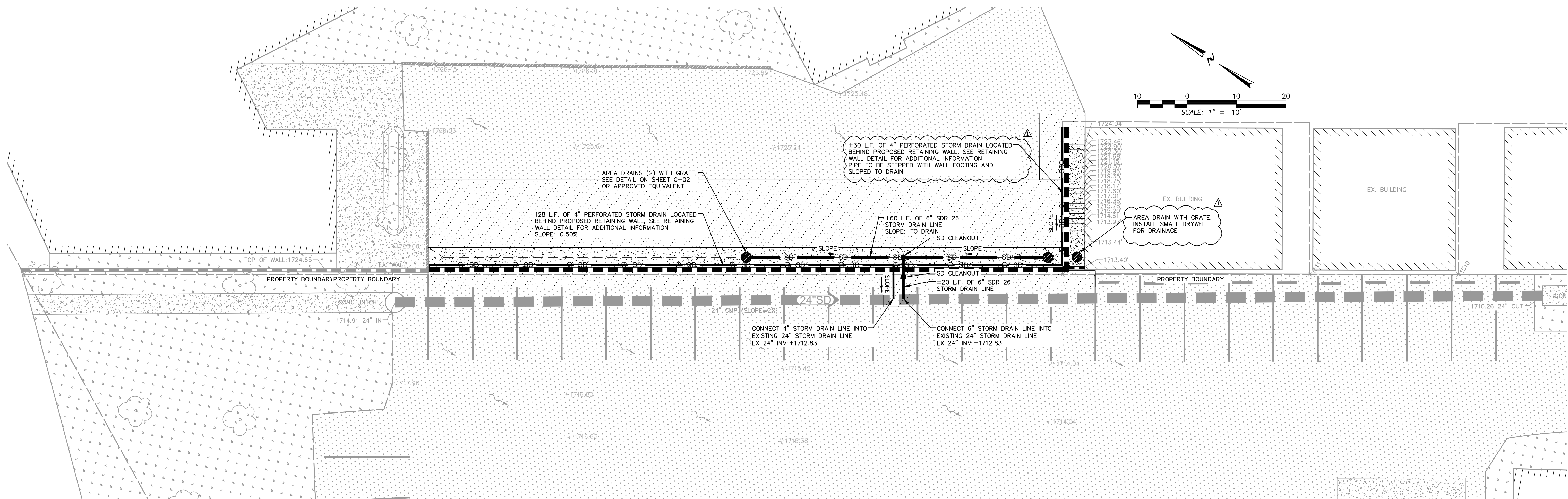
NOT TO SCALE







GRADING PLAN



DRAINAGE PLAN

DIGALERT
1-800-227-2600
CALL 2 FULL WORKING DAYS IN ADVANCE

REV #	DATE	DESCRIPTION
1	1/24/2025	DEMO/CONSTRUCTION OF SMALL WALL

440 S. Yosemite Avenue, Suite A
Oakdale, CA 95361
Phone: (209) 847-8726
www.Ardurra.com

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GRADING & DRAINAGE PLAN

RETAINING WALL & PARKING LOT PLAN
SONORA REGIONAL MEDICAL CENTER
179 FAIRVIEW LANE, SONORA, CALIFORNIA

SCALE: 1"=10'
DRAWN BY: KC
DESIGNED BY: NWP
CHECKED BY: KH
DATE: 1/31/2025

C-04
OF 6
JOB NO. 23174

S:\PROJECTS\2023\23174\Drawings\Plan\SHS-C-04 GRADING & DRAINAGE PLAN.dwg 1/31/2025 9:07am

DESIGN CRITERIA: CALIFORNIA BUILDING CODE 2022
DEAD LOAD: STRUCTURAL SELF-WEIGHT AND TRIBUTARY SOIL WEIGHT
LIVE LOAD: 240 PSF SURCHARGE
SEISMIC LOAD:
SITE CLASS: C
SEISMIC DESIGN CATEGORY: D
Ss: 0.360 SDS: 0.312
S1: 0.183 SD1: 0.183
IMPORTANCE FACTOR: 1.0
SEISMIC COEFFICIENT FOR WALL: 0.125

SOIL: THE FOLLOWING SOIL INFORMATION IS FROM THE GEOTECHNICAL REPORT
PREPARED BY KRAZAN & ASSOCIATES, INC. DATED JANUARY 11,2024:
LATERAL SOIL PRESSURE: 40 PCF DRAINED ACTIVE
60 PCF DRAINED AT-REST
ADDITIONAL SEISMIC ACTIVE LATERAL SOIL PRESSURE: 16PCF (INVERTED
TRIANGULAR DISTRIBUTION)
ALLOWABLE BEARING PRESSURE D+L: 2,000 PSF (AVERAGE)
3,000 PSF (MAXIMUM)
ALLOWABLE BEARING PRESSURE TOTAL: 2,667 PSF (AVERAGE)
4,000 PSF (MAXIMUM)

RETAINING WALL FOOTING SHALL HAVE A MINIMUM OF 24" EMBEDMENT
BELOW ADJACENT GRADE AND SHALL BEAR ON ENGINEERED FILL THAT IS
COMPACTED TO AT LEAST 90% MAXIMUM DENSITY BASED ON ASTM D1557
TO ACHIEVE THE ABOVE ALLOWABLE BEARING PRESSURES.

REINFORCED CONCRETE:
 $f_c = 2,500$ PSI
 $f_y = 60,000$ PSI
 REINFORCED MASONRY:
 $f_m = 1,500$ PSI
 $f_y = 60,000$ PSI



SCALE: NTS



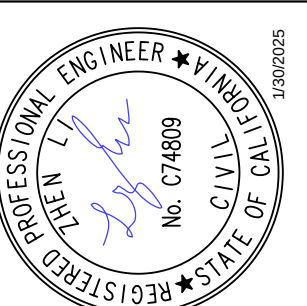
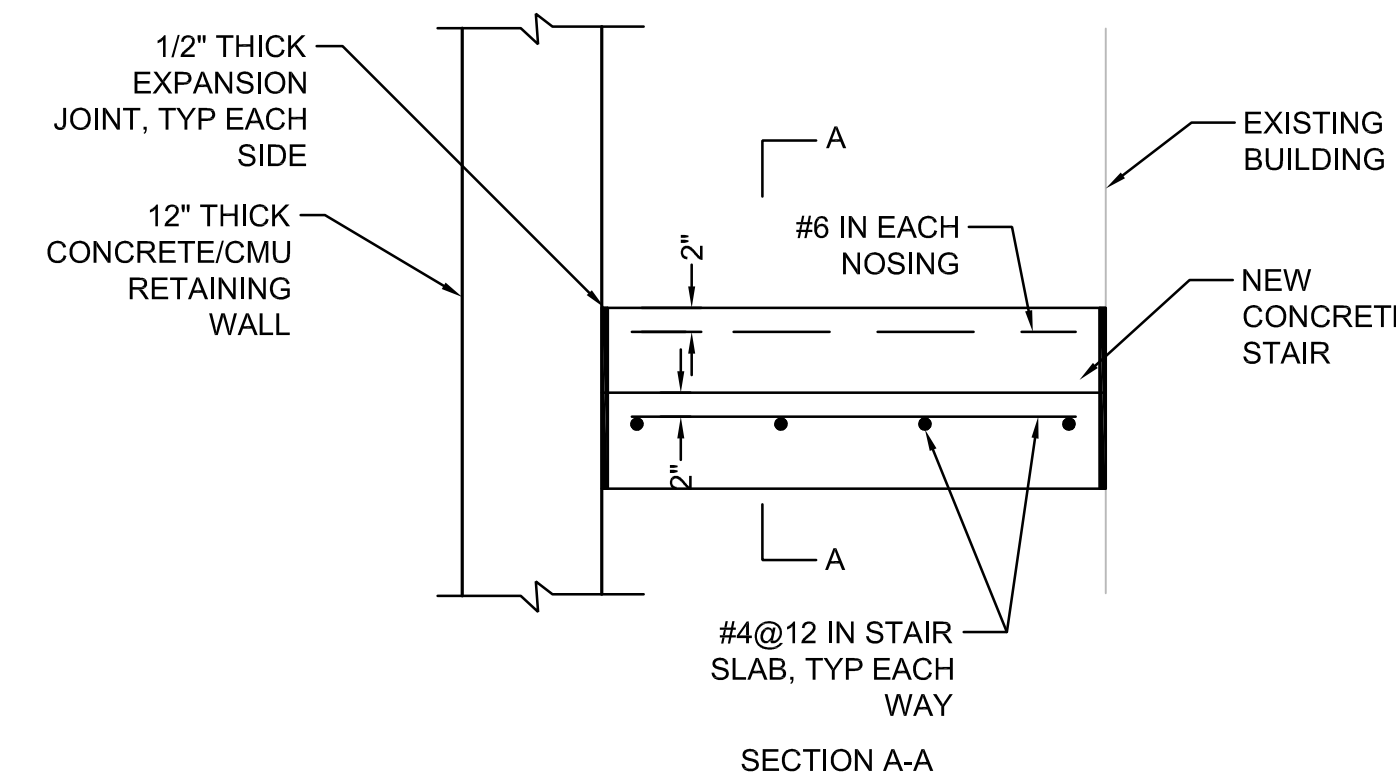
SCALE: NTS



SCALE: 1" = 10'



SCALE: NTS



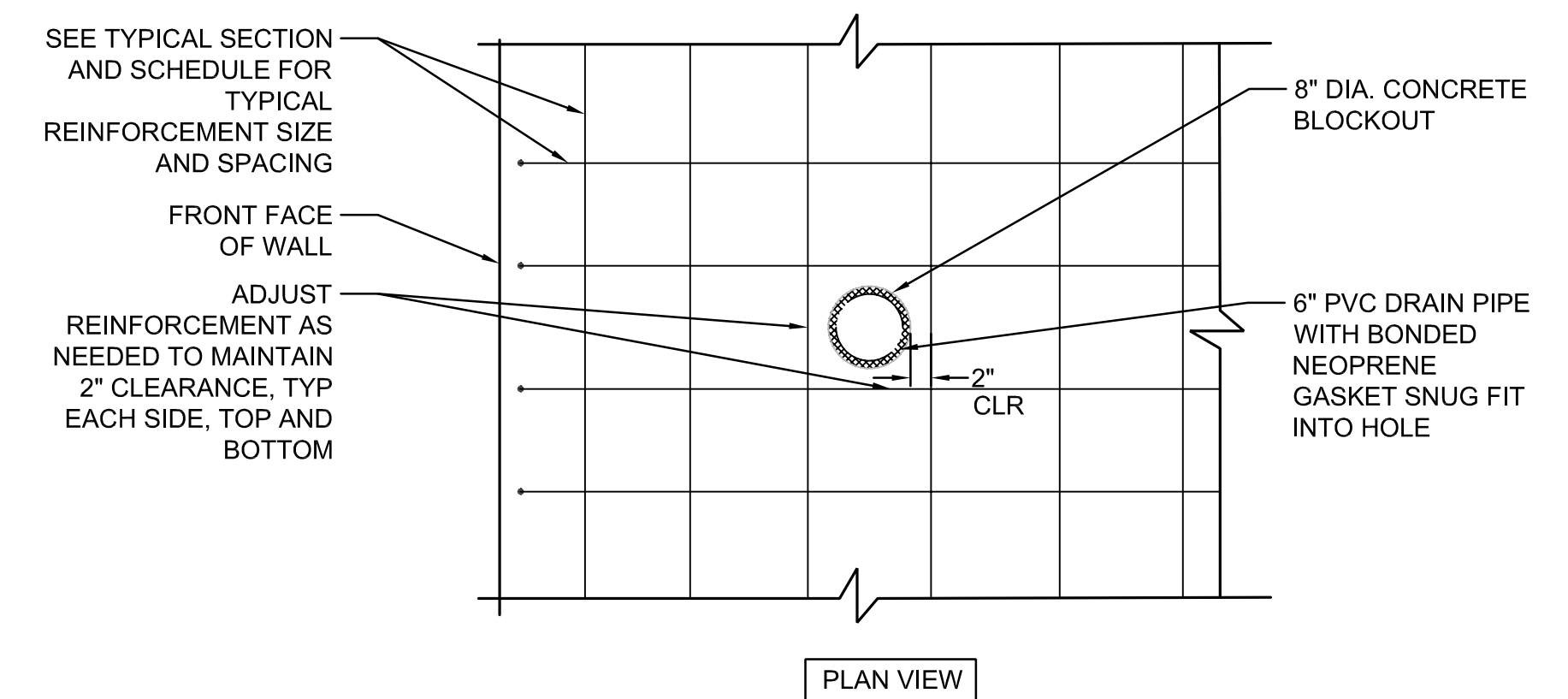
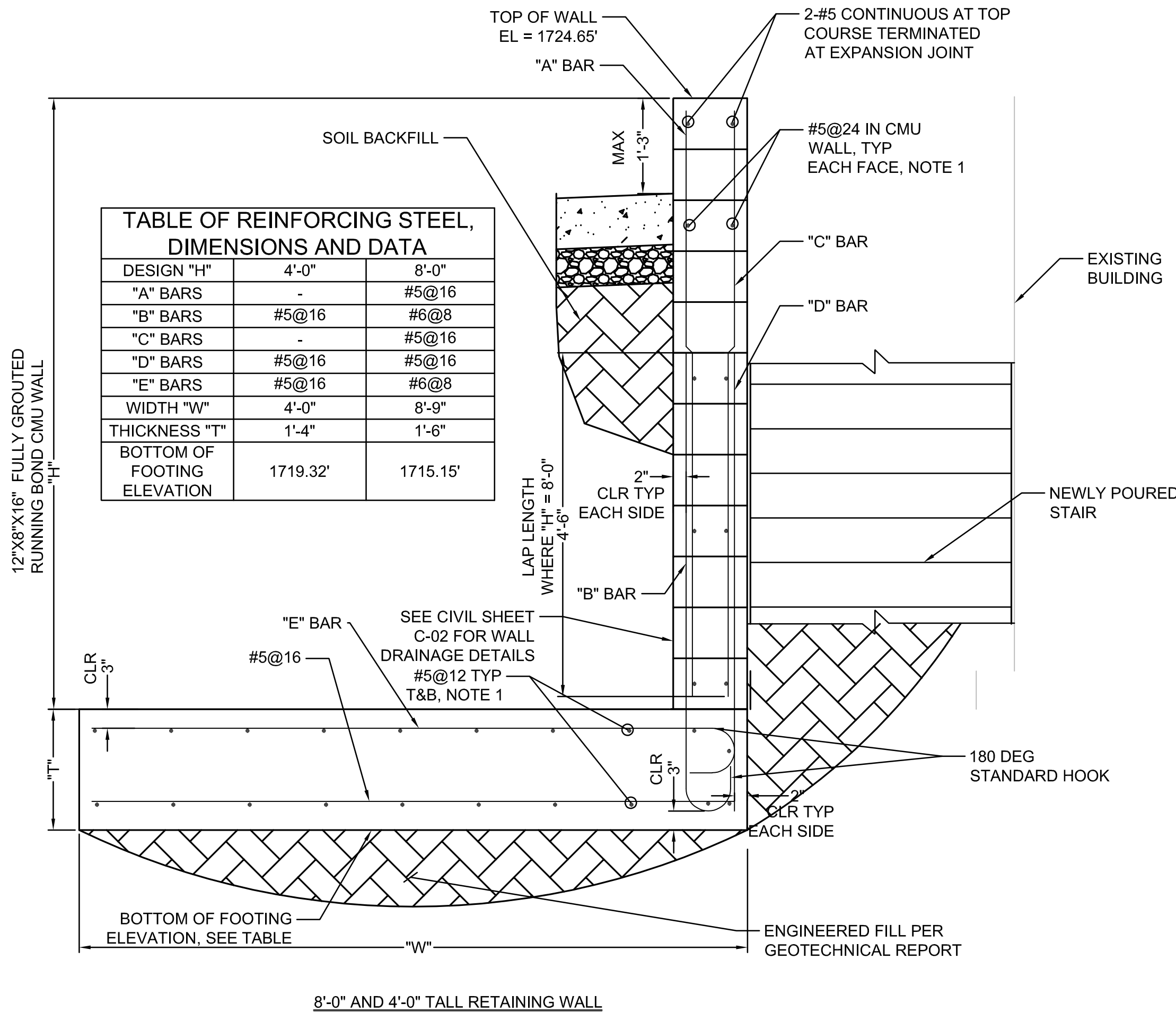
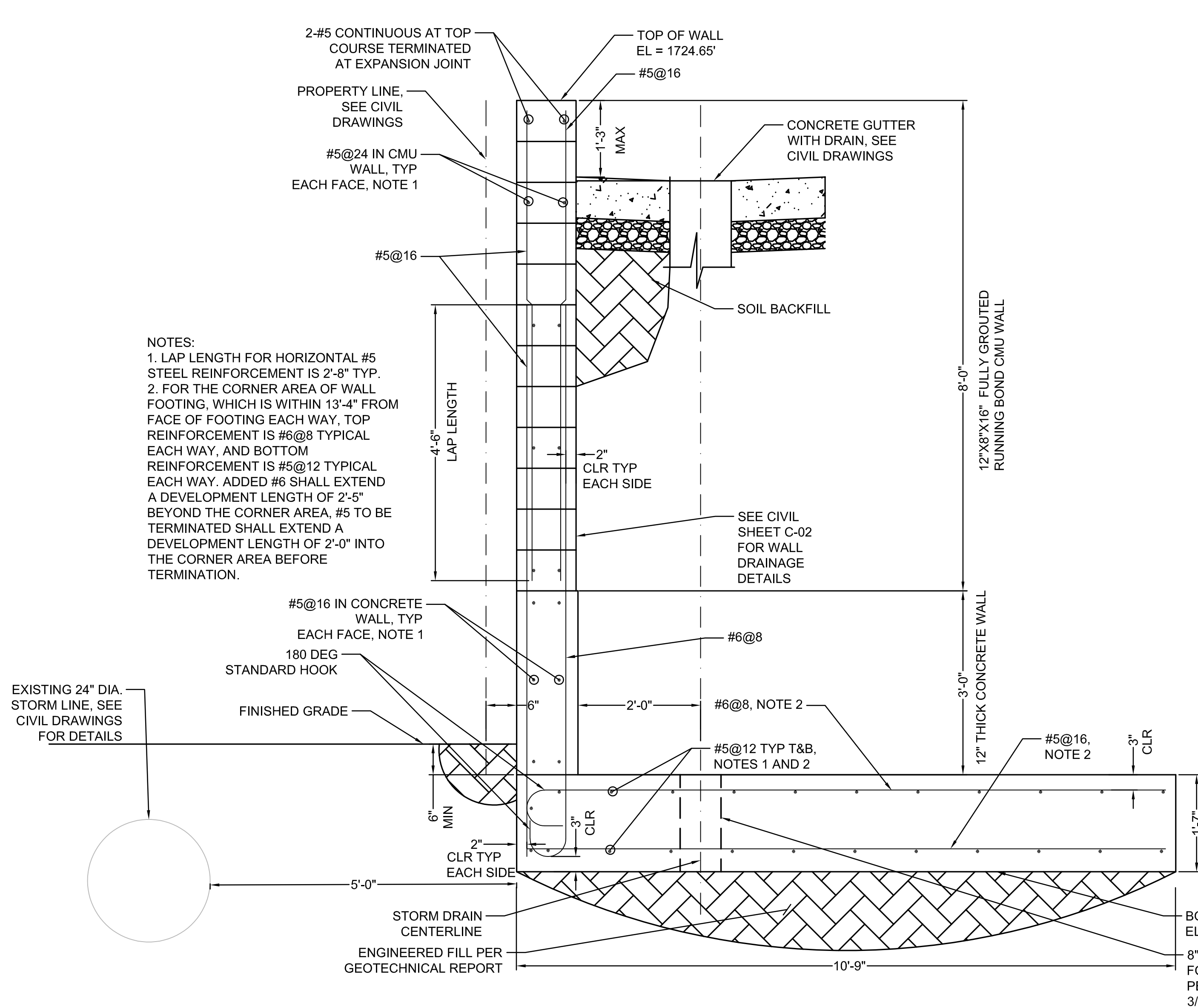
SCALE	1" = 10'
DRAWN BY	PB
DESIGNED BY	ZL
CHECKED BY	BW
DATE	2/8/2024

SHEET

S-01

6

JOB NO.
23174

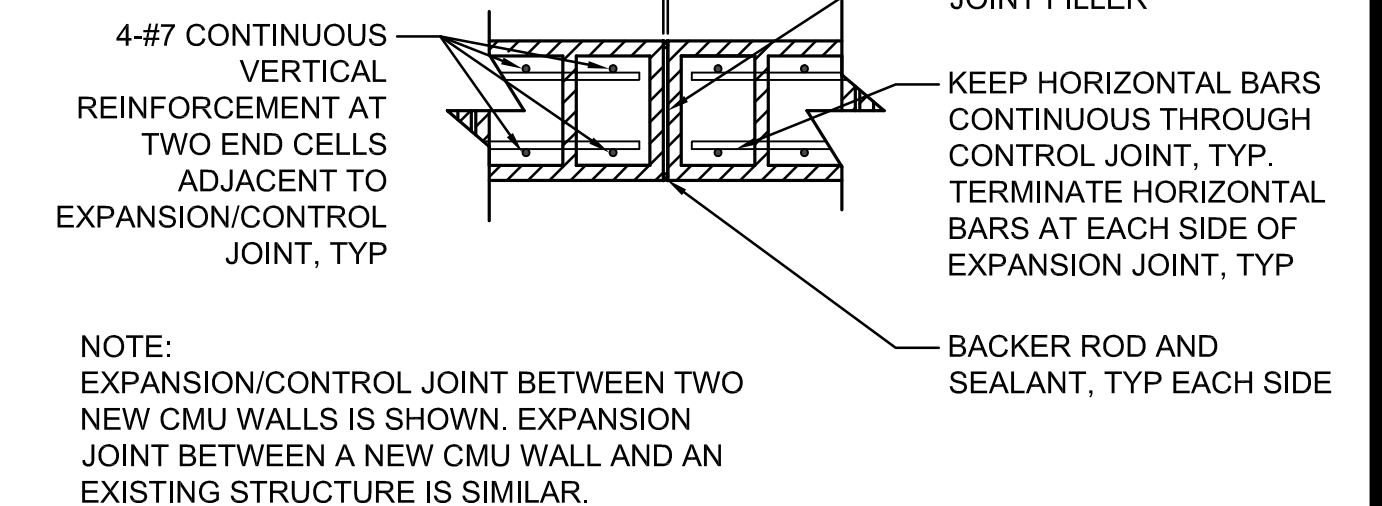
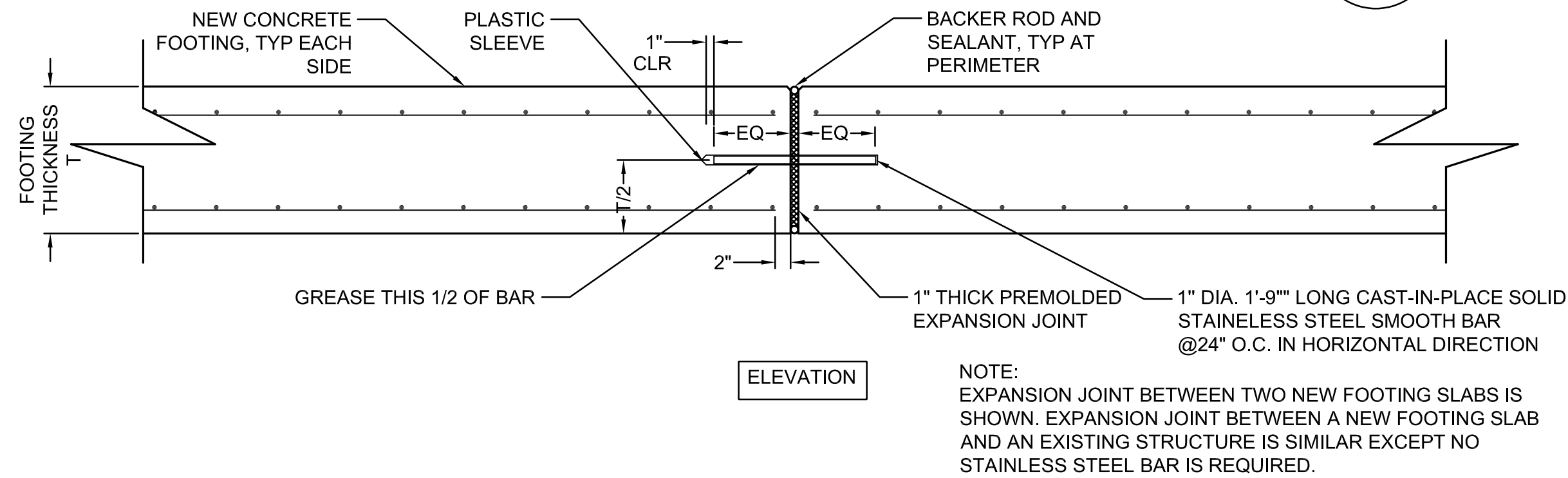
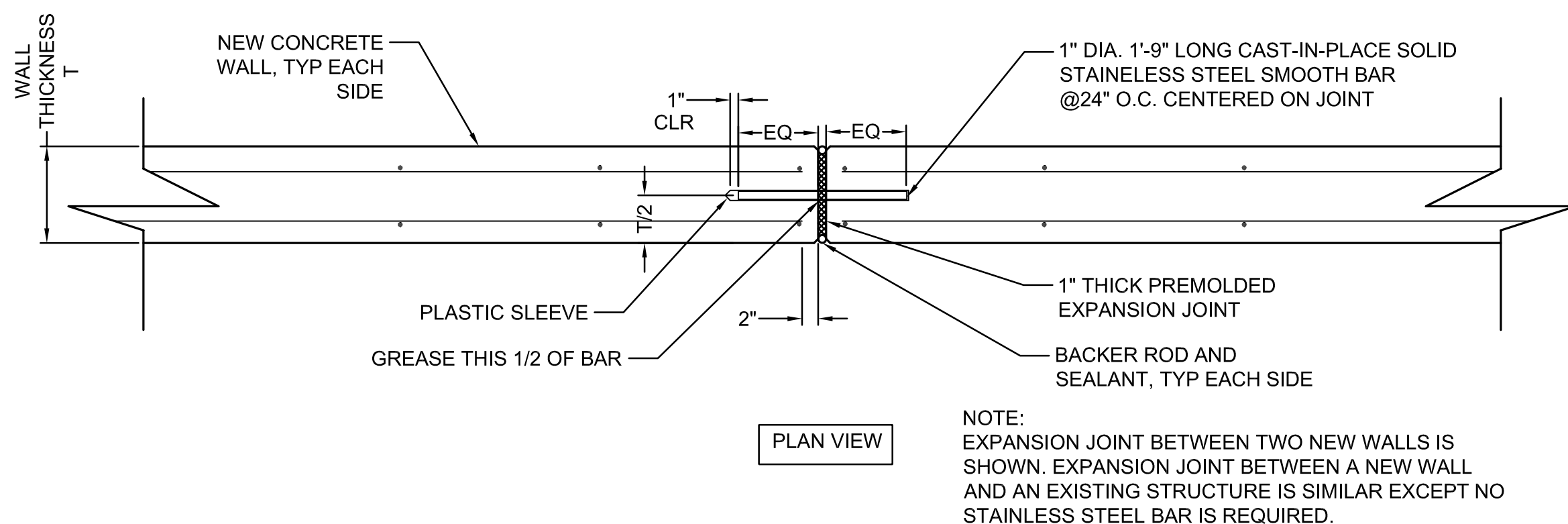


TYPICAL SECTIONS

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

3 DRAIN PENETRATION IN FOOTING DETAIL

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



DIGALERT
1-800-227-2600
CALL 2 FULL WORKING DAYS IN ADVANCE

REVISED: 2/8/2024
DATE: 2/8/2024
DESCRIPTION: RETAINING WALL TYPICAL SECTION AND DETAILS

440 S. Yosemite Avenue, Suite A
Oakdale, CA 95361
Phone: (209) 847-8726
www.Ardurra.com

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RETAINING WALL TYPICAL SECTION AND DETAILS

RETAINING WALL & PARKING LOT PLAN
SONORA REGIONAL MEDICAL CENTER
179 FAIRVIEW LANE, SONORA, CALIFORNIA

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

DRAWN BY: PB
DESIGNED BY: ZL
CHECKED BY: BW
DATE: 2/8/2024

SHEET
S-02
OF 6

JOB NO.
23174