

**GENERAL**

- NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER THESE STANDARD STRUCTURAL NOTES. SEE SHEET S-002 FOR ADDITIONAL NOTES AND DESIGN LOAD DATA.
- ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING CODES, SPECIFICATIONS, AND DESIGN MANUAL (LATEST EDITION UNLESS NOTED) AND REFERENCED STANDARDS:
  - INTERNATIONAL CODE COUNCIL INTERNATIONAL BUILDING CODE (IBC-2015)
  - AMERICAN SOCIETY OF CIVIL ENGINEERS MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE 7-10)
  - AMERICAN CONCRETE INSTITUTE (ACI) BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE STANDARD (ACI 318-14)
  - AMERICAN CONCRETE INSTITUTE CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES (ACI 308)
  - CONCRETE REINFORCING STEEL INSTITUTE (CRSI) MANUAL OF STANDARD PRACTICE
  - STATE AND FEDERAL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS
- REFER TO SPECIFICATIONS FOR INFORMATION NOT COVERED BY THESE NOTES OR DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK; AND THE ENGINEER/ARCHITECT SHALL BE IMMEDIATELY NOTIFIED, IN WRITING, OF ANY DISCREPANCIES.
- IN NO CASE SHALL DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE STRUCTURAL DRAWINGS.
- TYPICAL DETAILS SHALL BE USED WHENEVER APPLICABLE.
- ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF, AND RESOLVED WITH THE ENGINEER/ARCHITECT BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
- THE CONTRACTOR SHALL DETERMINE THE LOCATION OF UTILITY SERVICES IN THE AREA TO BE EXCAVATED BEFORE BEGINNING EXCAVATION.
- NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS OR WALLS, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC.
- RECESSES, DEPRESSIONS, DIMENSIONS, ELEVATIONS, OPENINGS, EQUIPMENT SUPPORTS, AND DETAILS SHALL BE VERIFIED BY REFERENCE TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. OPENINGS, REQUIRED BUT NOT SHOWN, MUST BE PLACED BETWEEN STRUCTURAL MEMBERS.
- TEMPORARY BRACING:
  - PROVIDE TEMPORARY LATERAL SUPPORT FOR ALL WALLS WHERE GRADE VARIES ON THE TWO SIDES UNTIL PERMANENT STRUCTURAL SUPPORT SYSTEM IS IN PLACE.
  - PROVIDE TEMPORARY BRACING FOR ALL BUILDING ELEMENTS AND COMPONENTS UNTIL THE STRUCTURE IS SUFFICIENTLY COMPLETE TO PROVIDE PERMANENT BRACING.

**FOOTINGS AND FOUNDATIONS**

- THE NET ALLOWABLE SOIL BEARING PRESSURE SHALL BE FIELD VERIFIED BY SOILS ENGINEER PRIOR TO PLACING FOOTINGS.
- ALL SITE SOIL WORK SHALL BE DONE UNDER THE DIRECT OBSERVATION OF A SOILS ENGINEER.
- WATER LEVELS INDICATED ON BORING LOGS ARE SUBJECT TO SEASONAL AND/OR ANNUAL VARIATIONS. IF NECESSARY A DEWATERING SYSTEM OF SUFFICIENT CAPACITY SHALL BE INSTALLED AND OPERATED TO MAINTAIN THE CONSTRUCTION AREA FREE OF WATER AT ALL TIMES.
- MINIMUM DEPTH FROM EXTERIOR GRADE TO BOTTOM OF FOOTING NOT ADJACENT TO HEATED SPACE SHALL BE 60 INCHES.
- PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.
- FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE SOILS ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
- WALL FOOTINGS ARE CONTINUOUS POURED CONCRETE WITH CONTINUOUS REINFORCING PLACED 3" CLEAR OF BOTTOM AND SIDES.
- PROVIDE 24 DIA. LAP AT SPLICES AND FULL CROSSING LAP AT CORNERS AND INTERSECTIONS.
- UNLESS OTHERWISE NOTED, WALL FOOTINGS ARE CENTERED UNDER WALLS AND COLUMN FOOTINGS UNDER COLUMNS.
- FOOTINGS FOR WALLS NOT NOTED SHALL BE 12" THICK WITH A MINIMUM PROJECTION OF 4" EACH SIDE WITH 2-#5 CONTINUOUS.
- BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.

**REINFORCING STEEL**

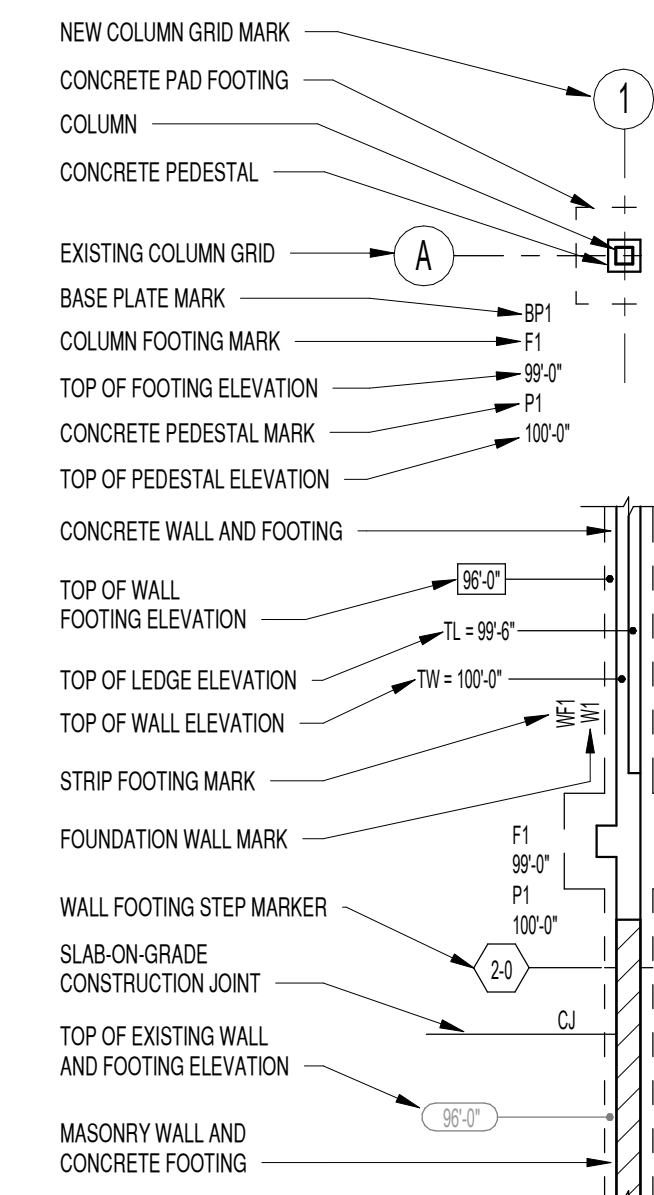
- BAR REINFORCEMENT SHALL BE: ASTM A615, GRADE 60
- WELDED WIRE FABRIC SHALL MEET ASTM A185.
- CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION AND INSTALLATION.
- ALL REINFORCING STEEL ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE SECURED IN POSITION WITH WIRE POSITIONERS BEFORE PLACING CONCRETE OR GROUT.
- DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING.
- MINIMUM LAP SPLICES OF REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
  - CONCRETE: CLASS B AS DEFINED IN ACI 318-14 OR CHART BELOW.

CONCRETE REINFORCING LAP SPLICE LENGTHS		
BAR SIZE	LAP LENGTH (3/4" CLR.) (INCHES)	LAP LENGTH (2" CLR.) (INCHES)
#3	17	17
#4	28	23
#5	41	28
#6	56	34

- REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE:
  - CONCRETE PLACED AGAINST EARTH ..... 3"
  - ALL OTHER CONCRETE SURFACES ..... 2"

**REINFORCED CONCRETE**

- CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
- CONCRETE SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH( $f_c$ ), MAXIMUM WATER-CEMENT (W/C) RATIO AND MAXIMUM SLUMP AS GIVEN IN THE CONCRETE MIX DESIGN REQUIREMENTS SCHEDULE ON THIS PAGE. \*WHERE COMPRESSIVE STRENGTH, SLUMP, OR W/C ARE NOT GIVEN, PROVIDE A MIX DESIGN COMPLYING WITH ACI REQUIREMENTS FOR THE EXPOSURE CLASS GIVEN.\*
- ADD AIR ENTRAINMENT PER ACI DURABILITY REQUIREMENTS FOR EXPOSURE CLASS.
- CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR APPROVAL, 14 DAYS PRIOR TO FABRICATION AND INSTALLATION. ALL CONCRETE MIXES SHALL BE DESIGNED AND CERTIFIED BY A MATERIALS TESTING LABORATORY.
- ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER (CALCIUM CHLORIDE SHALL NOT BE USED).
- ADMIXTURES SHALL COMPLY WITH ASTM C494 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT
- CEMENT SHALL CONFORM TO ASTM C150, TYPE I.
- READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- REFER TO DRAWINGS OF OTHER DISCIPLINES FOR MOLDS, GROOVES, CLIPS, ORNAMENTS, GROUNDS, ETC. REQUIRED TO BE CAST INTO CONCRETE.
- PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER.
- NO CONDUIT PLACED IN A CONCRETE SLAB SHALL HAVE AN OUTSIDE DIAMETER GREATER THAN 1/3 THE THICKNESS OF THE SLAB. NO CONDUIT SHALL BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK. EXCEPT FOR LOCAL OFFSETS, MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE 6".

**FOUNDATION LEGEND**

**CONCRETE MIX DESIGN REQUIREMENTS**

MARK	EXPOSURE CLASS					ADDITIONAL MIX REQUIREMENTS			Comments
	F	S	C	W		$f_c$	SLUMP	MAX WC	
FS1A	2	0	0	0	0	4500	4"	0.42	WATER-PROOFING ADMIXTURE REQ'D. A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED
S1	2	0	0	0	0	4500	4"	0.45	A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED
S2	2	0	0	0	0	4500	4"	0.45	A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED
W1	2	0	0	0	0	4500	4"	0.45	A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED
W2A	2	0	0	0	0	4500	4"	0.42	WATER-PROOFING ADMIXTURE REQ'D. A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED

NOTE: PROVIDE CONCRETE GROUT MEETING EQUIVALENT MIX DESIGN REQUIREMENTS AS REQUIRED FOR THE SLABS AND WALLS UNDERLYING OR ADJACENT TO THE GROUT AREA

Issue:	Date	Issue for
	12-21-22	BID

Revisions:		
Mark	Date	Issued as
△	1-06-2023	ADD 02
△		
△		
△		
△		
△		
△		

Designed by:  
 Designer  
 Drawn by:  
 NJA  
 Project Number:  
 CHETW19001

Sheet Number:  
**SD001**



ENGINEERS - SURVEYORS - ARCHITECTS

770 Technology Way  
Chippewa Falls, WI 54729  
Phone: 715.861.5226  
www.cbssquaredinc.com

**WASTEWATER TREATMENT FACILITY**  
**STRUCTURE D: SEQUENCING BATCH REACTORS (SBR)**  
 CITY OF CHETEK  
 BARRON COUNTY, WISCONSIN  
 GENERAL STRUCTURAL DESIGN DATA

**DESIGN DATA**

CLASSIFICATION	
STRUCTURE RISK CATEGORY	CATEGORY III
SNOW LOADS:	
GROUND SNOW LOAD (Pg)	50 PSF
DRIFT SURCHARGE LOAD ON LOWER ROOFS (Pd)	PSF
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.2
IMPORTANCE FACTOR (Is)	1.1
TYPICAL DESIGN LOAD (P)	46.2 PSF
LIVE LOADS:	
WALKWAY	100 PSF
SEISMIC LOADS:	
IMPORTANCE FACTOR (Ie)	1.25
SEISMIC DESIGN CATEGORY	A
	S <sub>s</sub> =0.044, S <sub>i</sub> =0.027, S <sub>ds</sub> =0.047, S <sub>ri</sub> =0.043
SITE CLASS	D
GEOTECHNICAL CRITERIA:	
NET ALLOWABLE SOIL DESIGN BEARING PRESSURE	1,500 PSF
AT REST EARTH PRESSURE (EQUIVALENT FLUID)	95 PSF/FT

CONCRETE SLAB SCHEDULE			
Mark	Reinforcement	Thickness	Comments
S1	#5 @ 7" O.C. E.W. TOP	8"	
S2	#4 @ 9" O.C. E.W. TOP & BOTTOM	1'-0"	#5 DOWEL W/ 90° STD HOOK @ 10" O.C. E.F. WALL LAP HOOK-TO-TOP MAT
S3Δ	#4 @ 9" O.C. E.W. TOP & BOTTOM	1'-0"	

FOUNDATION SLAB SCHEDULE			
MARK	THICKNESS	REINFORCEMENT	COMMENTS
FS1Δ	2'-6"	<varies>	

STRUCTURAL CAST-IN-PLACE CONCRETE WALL SCHEDULE				
MARK	WALL THICKNESS	HORIZONTAL REINFORCEMENT	VERTICAL REINFORCEMENT	Comments
W1	12"	#4 @ 12" O.C.	#4 @ 12" O.C.	A.E. OF 5.5% ASSUMES 1-1/2" AGGRAGATE USED
W2Δ	24"	#6 @ 10" O.C. E.F.	#6 @ 10" O.C. E.F., SUPPLEMENT DOWELS SHOWN IN 7/SD801 W/ ADDITIONAL #8 DOWELS @ 10" W/ STD HOOK. LAP HOOK TO BOTTOM MAT AND PROVIDE 7'-6" MIN. EMBEDMENT IN WALL	WATER-PROOFING ADMIXTURE REQ'D. A.E. OF 5.5% ASSUMES 1-1/2" AGGREGATE USED

CONCRETE EQUIPMENT PADS1									
Mark	DESCRIPTION	CONCRETE BASE, L	CONCRETE BASE, W	CONCRETE BASE, D	CONCRETE BASE, H	CONCRETE BASE, A BARS	CONCRETE BASE, B BARS	CONCRETE BASE, C BARS	SPACING
EP1		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.
EP2		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.
EP3		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.
EP4		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.
EP5		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.
EP6		2'-0"	2'-0"	4"	1'-0"	#5	#5	#4	12" E.W.

NOTE:  
1. VERIFY CONCRETE BASE DIMENSIONS, ELEVATIONS, AND LOCATION(S) BASED ON APPROVED EQUIPMENT SHOP DRAWINGS AND REQUIRED PIPE ELEVATIONS (IF NECESSARY) PRIOR TO BASE CONSTRUCTION. ANCHOR BOLTS SHALL BE CAST-IN-PLACE "J" TYPE AS RECOMMENDED BY EQUIPMENT SUPPLIER, OR EPOXY CAPSULE ANCHORS AS APPROVED BY THE ENGINEER.

Issue:  
Date 12-21-22 Issue for BID

Revisions:  
 Mark Date Issued as  
 Δ 1/6/2023 ADD2  
 Δ 1/12/2023 ADD3  
 Δ  
 Δ  
 Δ  
 Δ

Designed by:  
Designer  
 Drawn by:  
NJA  
 Project Number:  
CHETW19001

Sheet Number:  
**SD002**

**FOUNDATION NOTES:**

1. B = BOTTOM, T = TOP, LW = LONG WAY, SW = SHORT WAY, EW = EACH WAY, EF = EACH FACE.
2. ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED OTHERWISE.
3. A - DENOTES LIQUID RETAINING STRUCTURES ARE TO BE CONSIDERED ENVIRONMENTAL CONCRETE ELEMENTS REQUIRING COMPLIANCE WITH ACI 350. USE WATERSTOP AT ALL CONSTRUCTION JOINTS BETWEEN SUCH ELEMENTS.
4. PIPE PENETRATIONS ARE APPROXIMATE. FINAL LOCATION TO BE COORDINATED WITH MECHANICAL.



ENGINEERS - SURVEYORS - ARCHITECTS  
 770 Technology Way  
 Chippewa Falls, WI 54729  
 Phone: 715.861.5226  
 www.cbssquaredinc.com

**WASTEWATER TREATMENT FACILITY**  
**STRUCTURE D: SEQUENCING BATCH REACTORS (SBR)**  
 CITY OF CHETEK  
 BARRON COUNTY, WISCONSIN  
 FOUNDATION PLAN

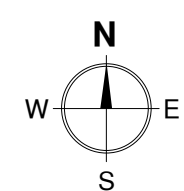
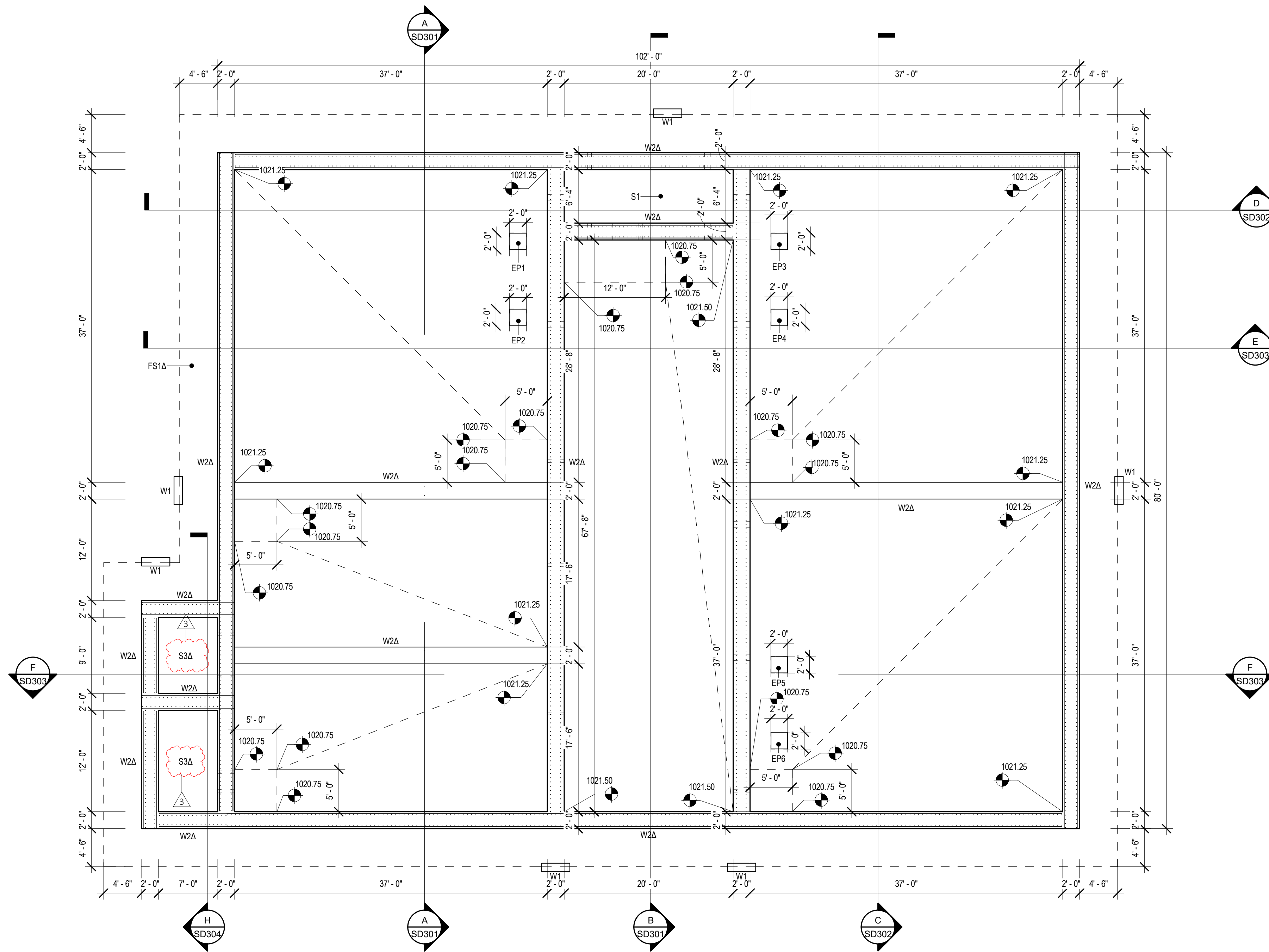
**Issue:**  
 Date: 12-21-22  
 Issue for: BID

**Revisions:**

Mark	Date	Issued as
△		
△		
△		
△		
△		
△		

**Designed by:**  
 JBR  
**Drawn by:**  
 NJA  
**Project Number:**  
 CHETW19001

**Sheet Number:**  
**SD101**



**FOUNDATION PLAN**

SCALE: 1/8" = 1'-0" (22' x 34')



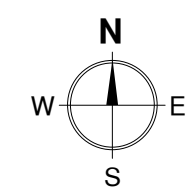
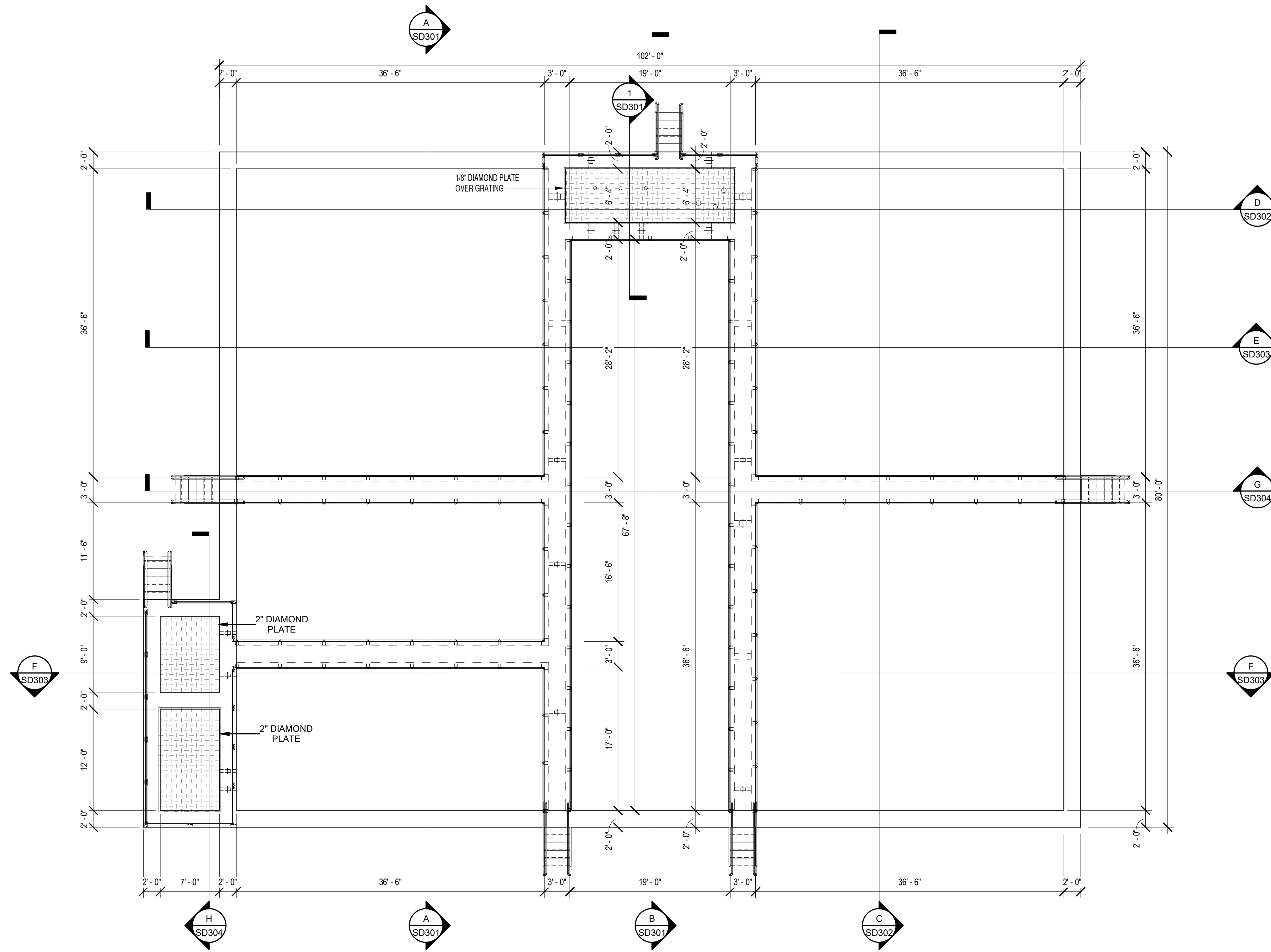


**FRAMING NOTES:**

1. A - DENOTES LIQUID RETAINING STRUCTURES ARE TO BE CONSIDERED ENVIRONMENTAL CONCRETE ELEMENTS REQUIRING COMPLIANCE WITH ACI 308. USE WATERSTOP AT ALL CONSTRUCTION JOINTS BETWEEN SUCH ELEMENTS. REFERENCE SHEET S002 FOR SCHEDULE DATA. CONTRACTOR MAY OMIT WATER-PROOF ADDITIVE TO WALKWAY ABOVE WATERLINE IF POURED SEPARATE FROM UNDERLYING WALL.

**WASTEWATER TREATMENT FACILITY**  
**STRUCTURE D: SEQUENCING BATCH REACTORS (SBR)**

CITY OF CHETEK  
BARRON COUNTY, WISCONSIN  
Addendum No. 3  
FLOOR PLAN



**FLOOR PLAN**  
SCALE: 1/8" = 1'-0" (22" x 34")

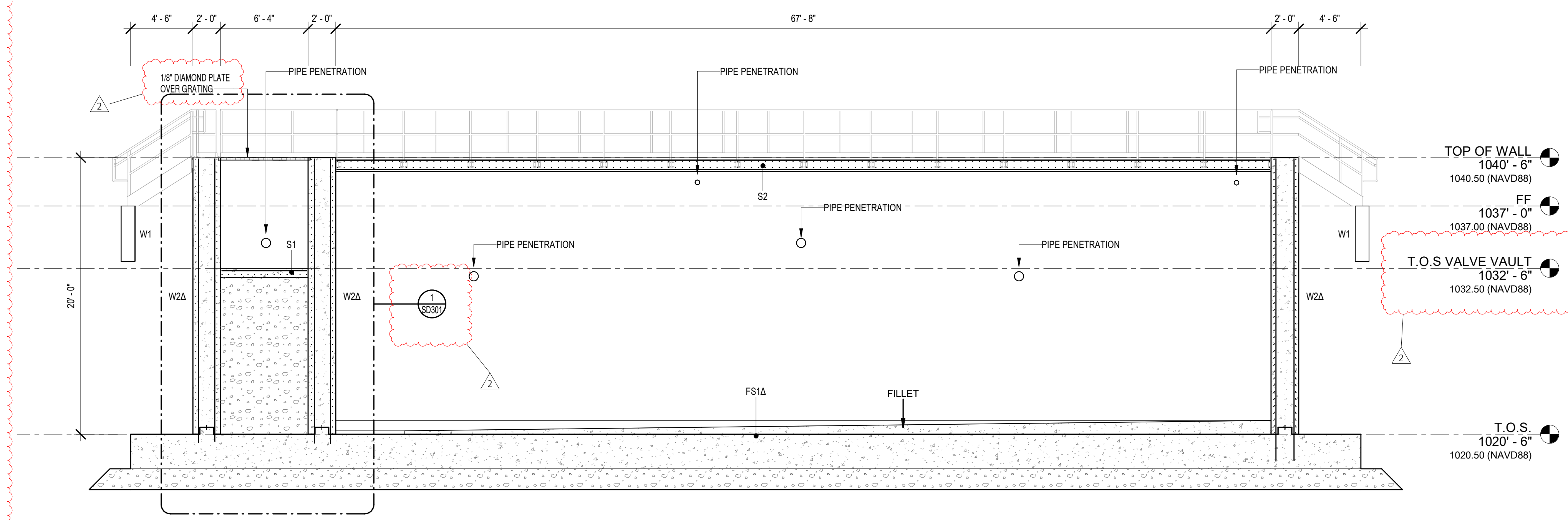
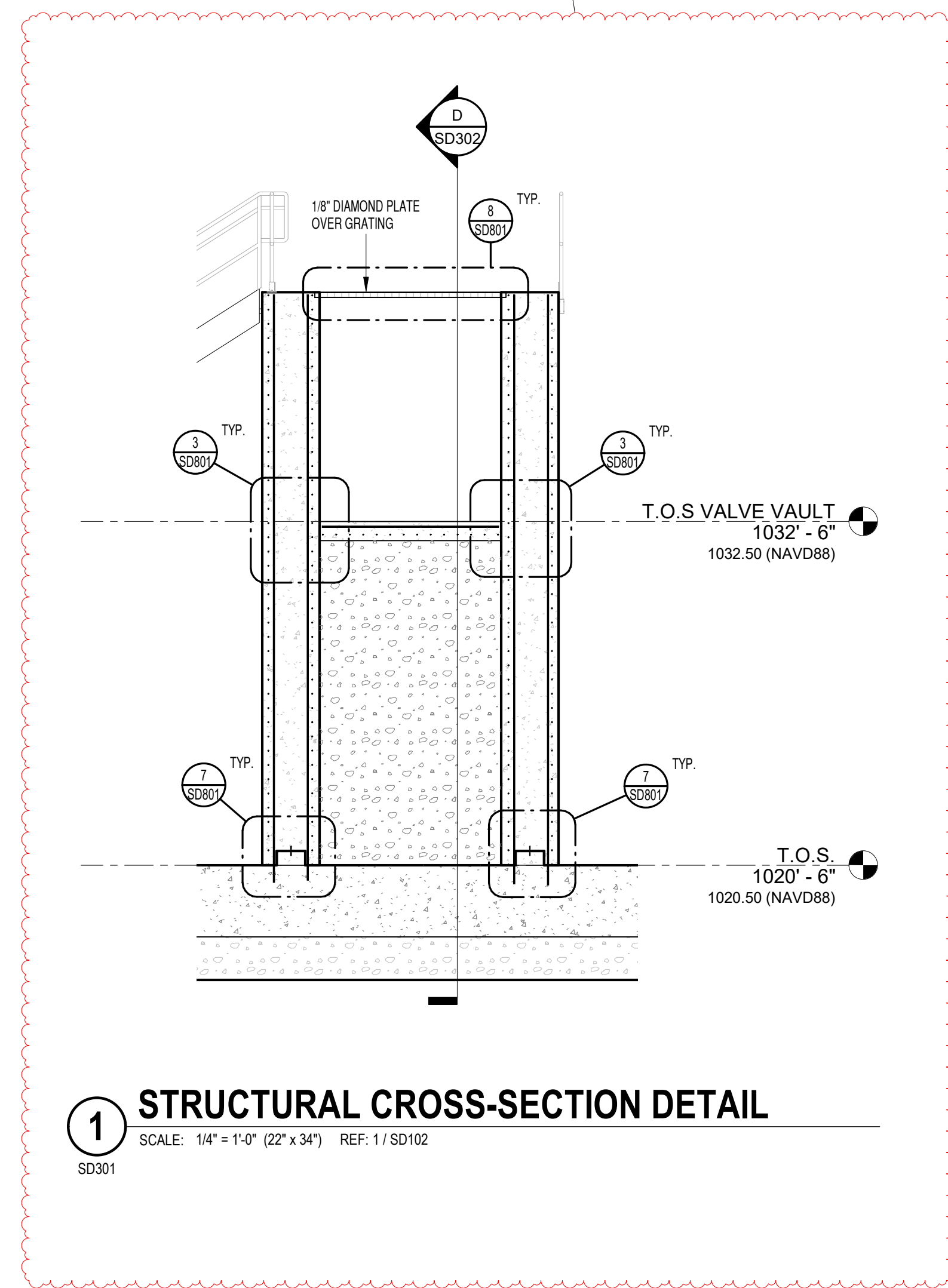
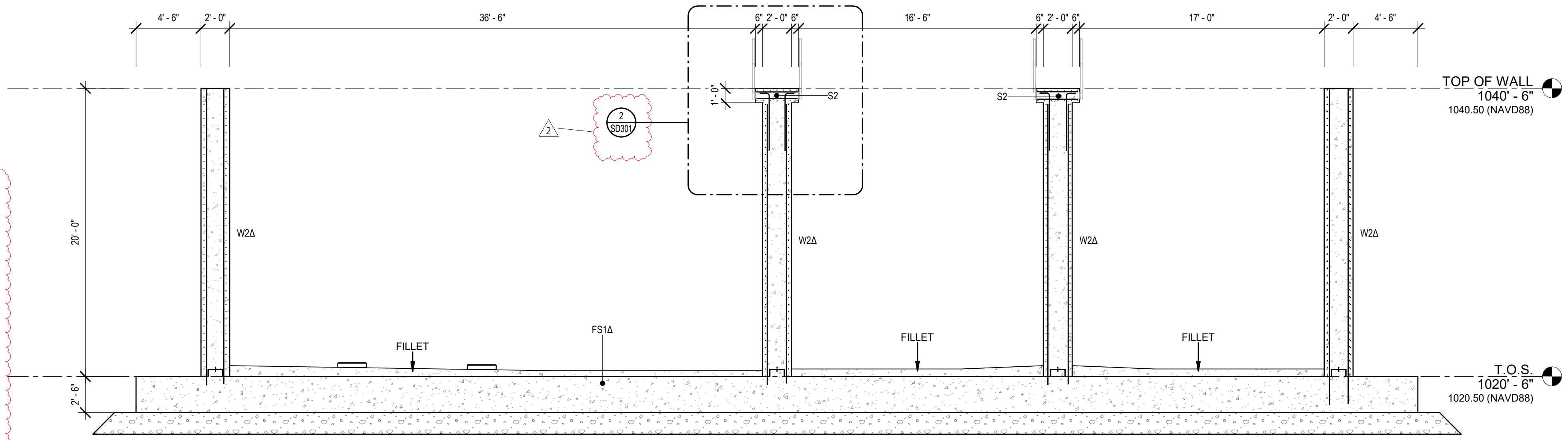
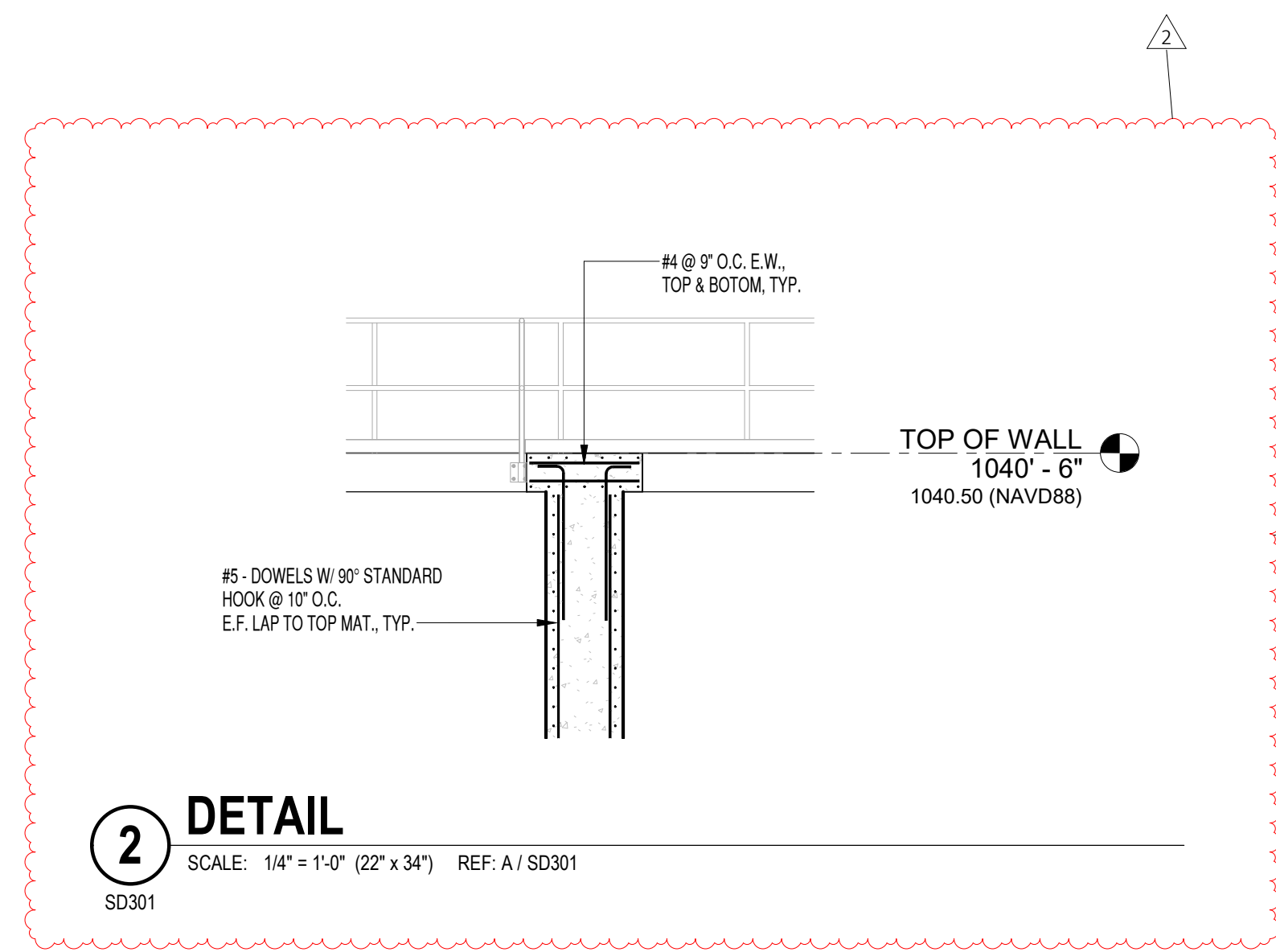


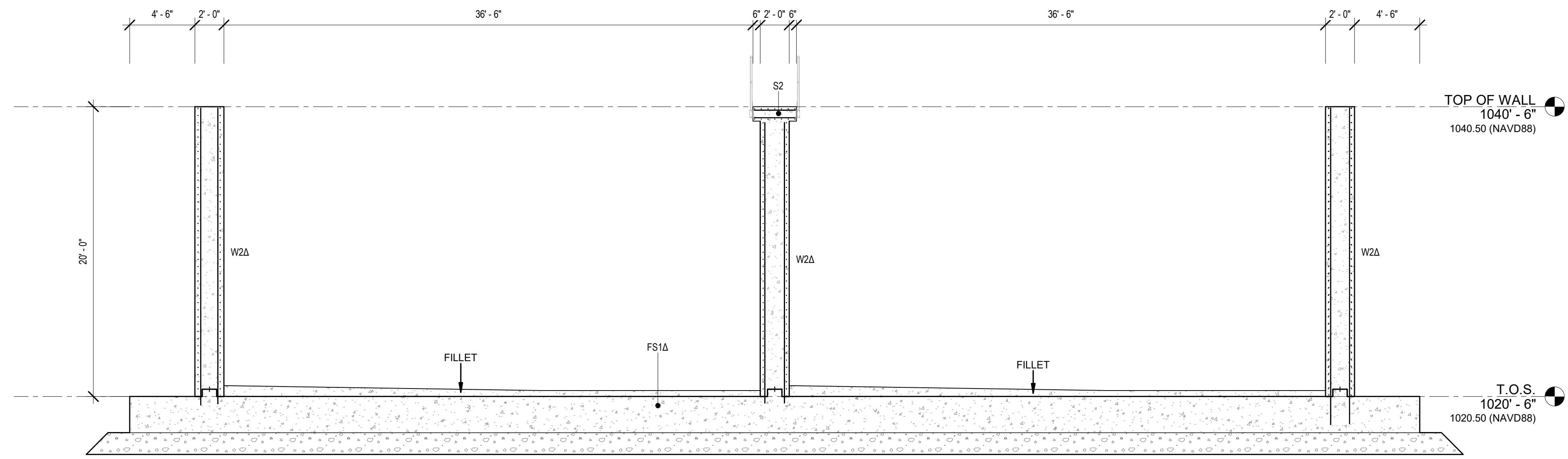
Issue:		
Date	Issue for	
12-21-22	BID	

Revisions:		
Mark	Date	Issued as
△	1/12/2023	ADD 03
△		
△		
△		
△		
△		

Designed by:  
JBR  
Drawn by:  
NJA  
Project Number:  
CHETW19001

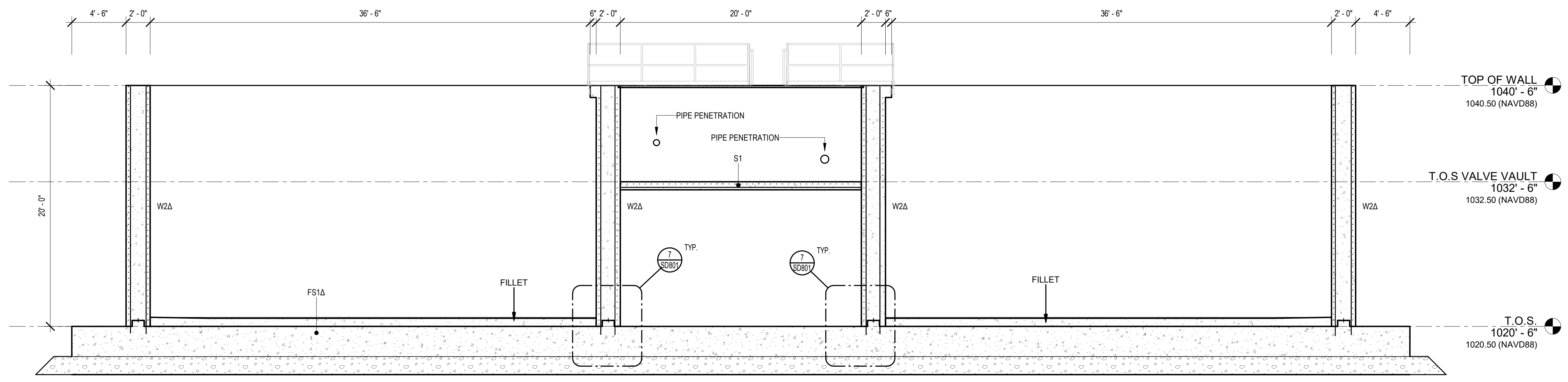
Sheet Number:  
**SD102**





**C STRUCTURAL CROSS-SECTION**

SCALE: 3/16" = 1'-0" (22" x 34")  
SD302



**D STRUCTURAL CROSS-SECTION**

SCALE: 3/16" = 1'-0" (22" x 34") REF: 1 / SD101  
SD302



**Issue:**

Date	Issue for
12-21-22	BID

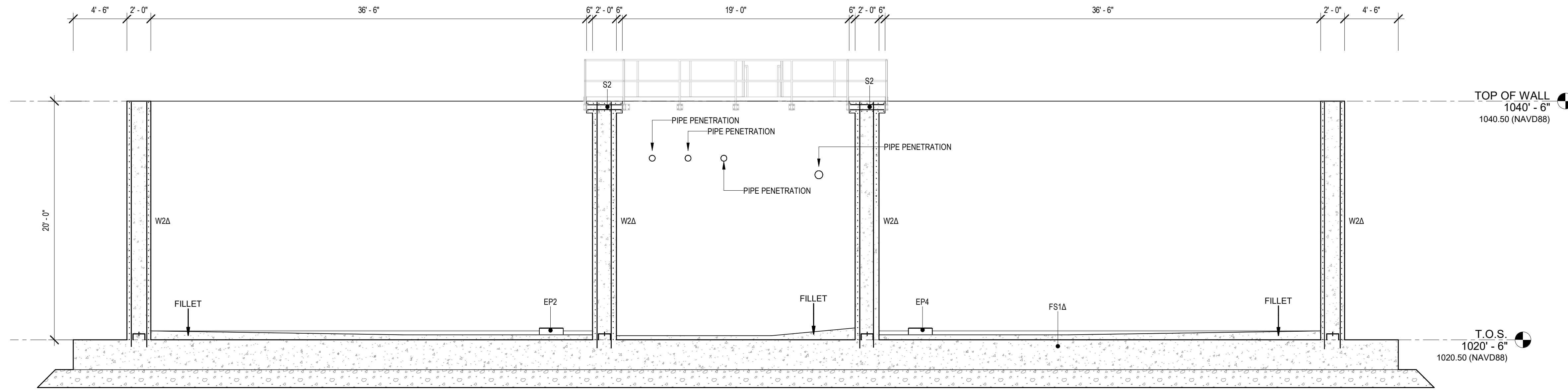
**Revisions:**

Mark	Date	Issued as
△	1/6/2023	ADD2
△	1/12/2023	ADD3
△		
△		
△		
△		

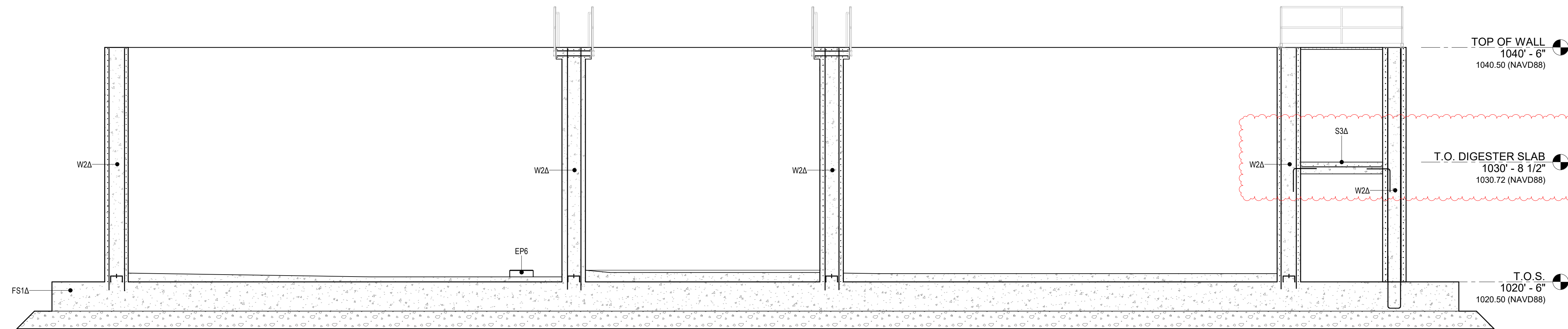
Designed by:  
MJG  
Drawn by:  
NJA  
Project Number:  
CHETW19001

Sheet Number:  
**SD302**





**E** STRUCTURAL CROSS-SECTION  
SCALE: 3/16" = 1'-0" (22" x 34")  
SD303



**F** STRUCTURAL CROSS-SECTION  
SCALE: 3/16" = 1'-0" (22" x 34") REF: 1/SD101  
SD303



**WASTEWATER TREATMENT FACILITY**  
**STRUCTURE D: SEQUENCING BATCH REACTORS (SBR)**  
 CITY OF CHETEK  
 BARRON COUNTY, WISCONSIN  
 STRUCTURAL SECTIONS

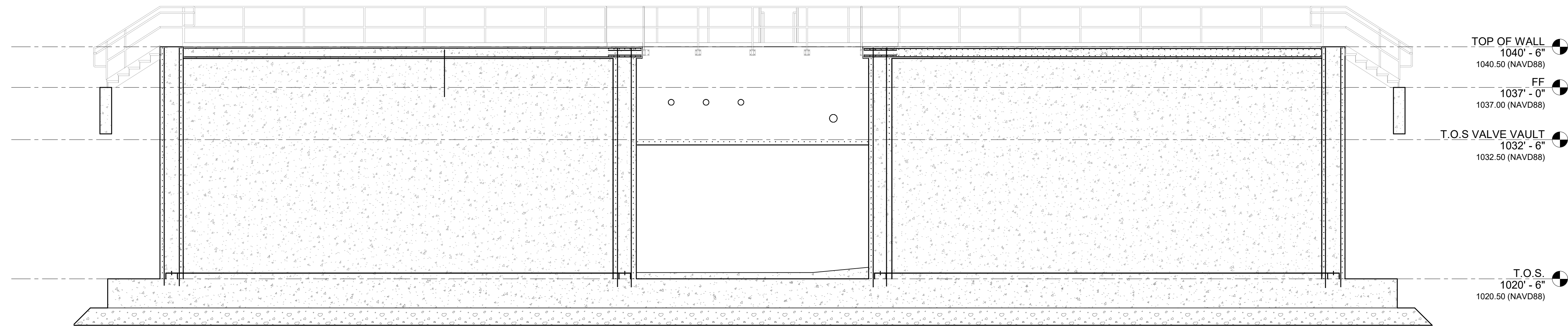
**Issue:**  
Date: 12-21-22 Issue for: BID

**Revisions:**

Mark	Date	Issued as
△	1/12/2023	ADD3
△		
△		
△		
△		

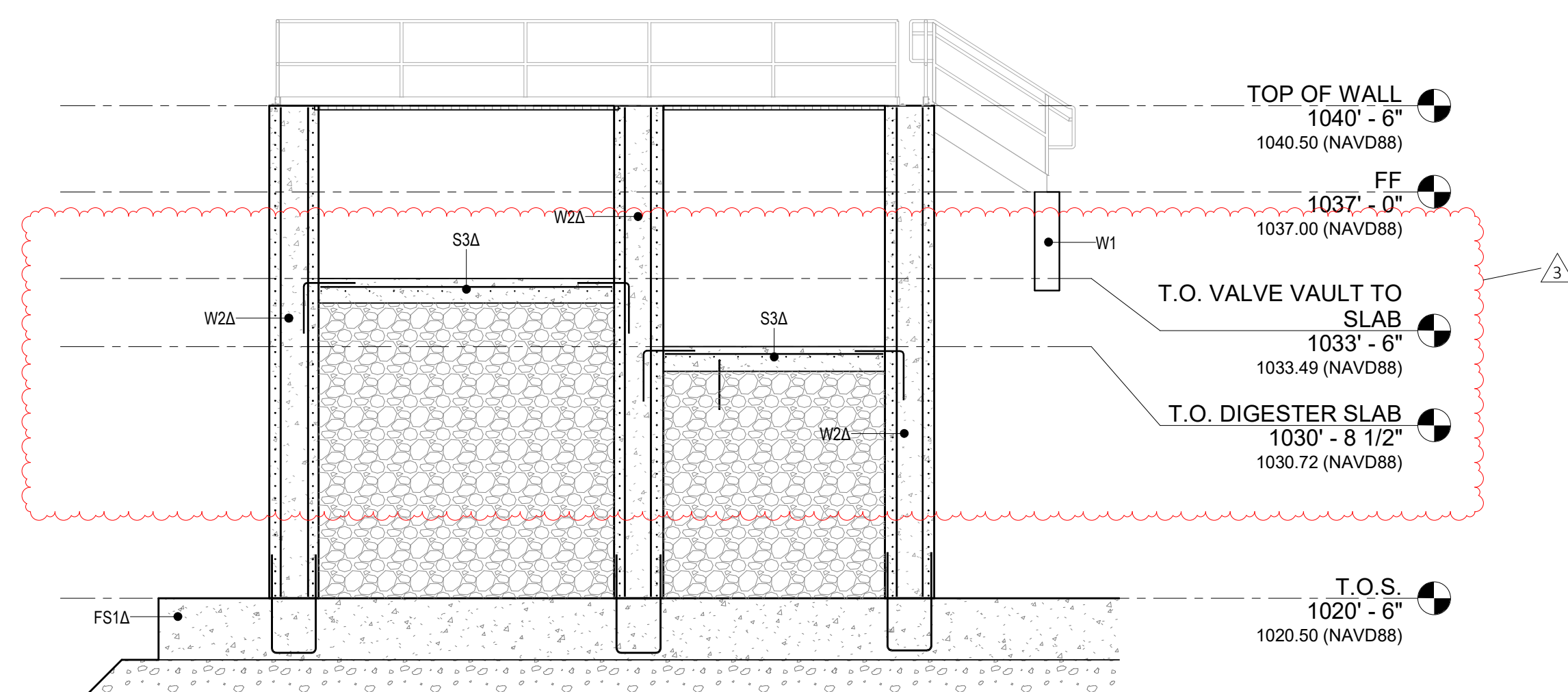
**Designed by:** MJG  
**Drawn by:** NJA  
**Project Number:** CHETW19001

**Sheet Number:**  
**SD303**



**G** STRUCTURAL CROSS-SECTION

SCALE: REF: 1 / SD102  
SD304



**H** STRUCTURAL CROSS-SECTION

SCALE: 3/16" = 1'-0" (22' x 34")  
SD304



**WASTEWATER TREATMENT FACILITY**  
**STRUCTURE D: SEQUENCING BATCH REACTORS (SBR)**  
 CITY OF CHETEK  
 BARRON COUNTY, WISCONSIN  
 STRUCTURAL SECTIONS

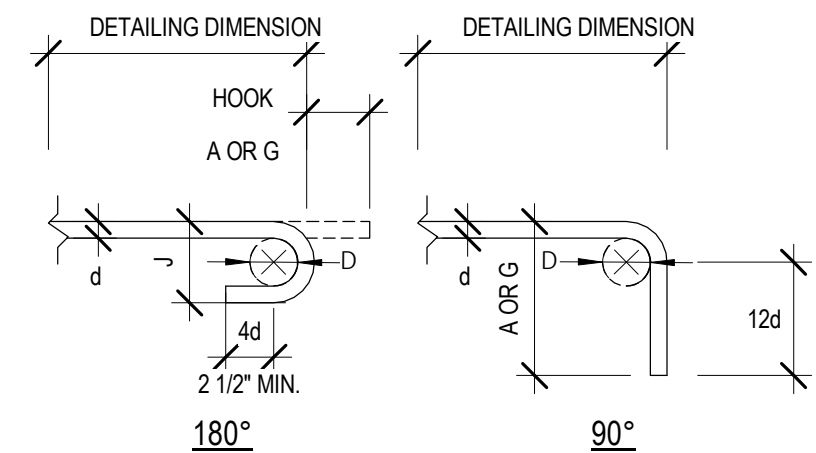
**Issue:**  
Date: 12-21-22 Issue for: BID

Revisions:		
Mark	Date	Issued as
△	1/6/2023	ADD2
△	1/12/2023	ADD3
△		
△		
△		
△		

Designed by: MJG  
 Drawn by: NJA  
 Project Number: CHETW19001

Sheet Number:  
**SD304**





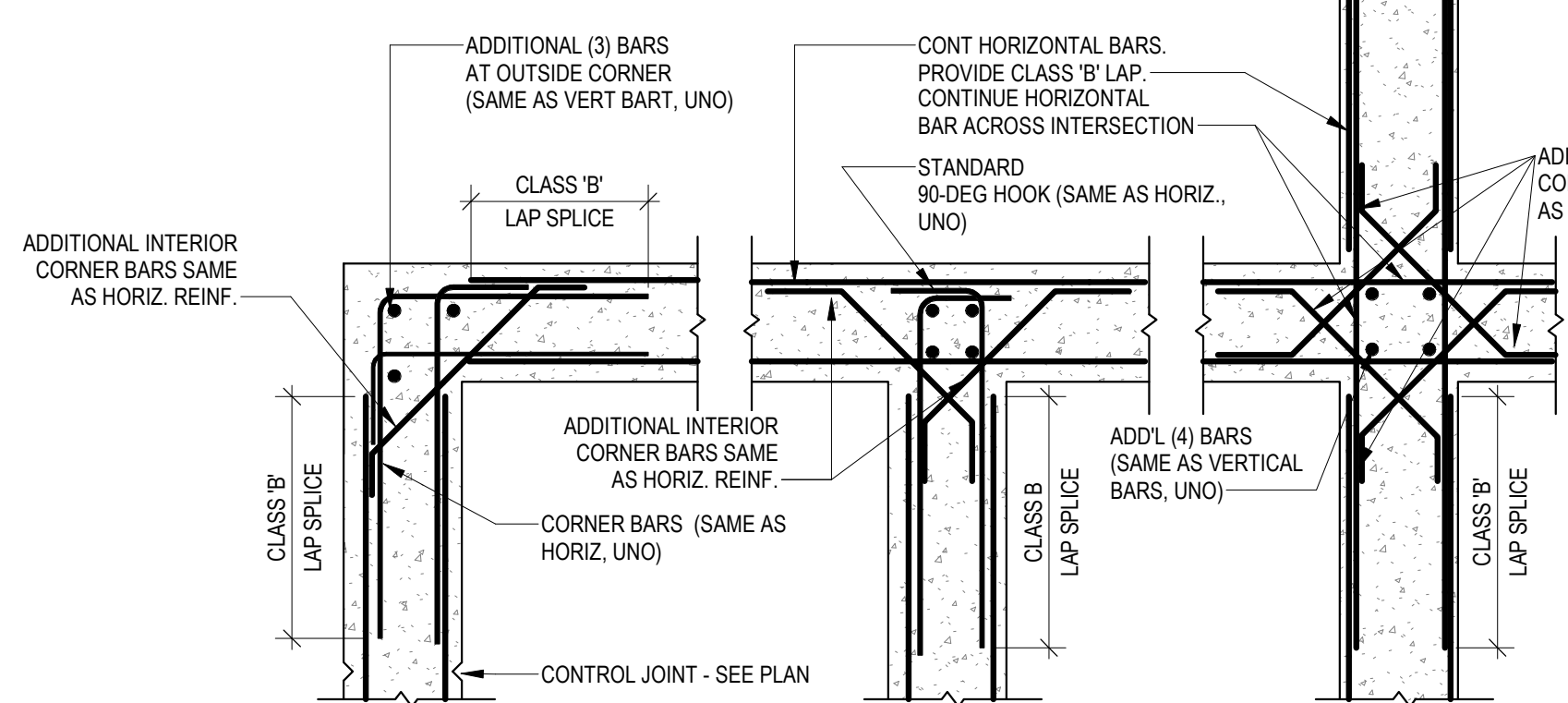
END HOOK DIMENSIONS				
BAR SIZE	D	180° HOOKS		90° HOOKS
		A or G	J	A or G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	12"
#7	5 1/4"	10"	7"	14"
#8	6"	11"	8"	16"
#9	9 1/2"	15"	11 1/4"	19"
#10	10 1/4"	17"	13 1/4"	22"
#11	12"	19"	14 1/2"	24"
#14	18 1/4"	27"	21 1/4"	31"
#18	24"	36"	28 1/2"	41"

STANDARD HOOK DETAILS SHALL FOLLOW CURRENT EDITION OF ACI 318

### 1 STANDARD REINFORCING HOOK SCHEDULE

SCALE: NOT TO SCALE  
SD801

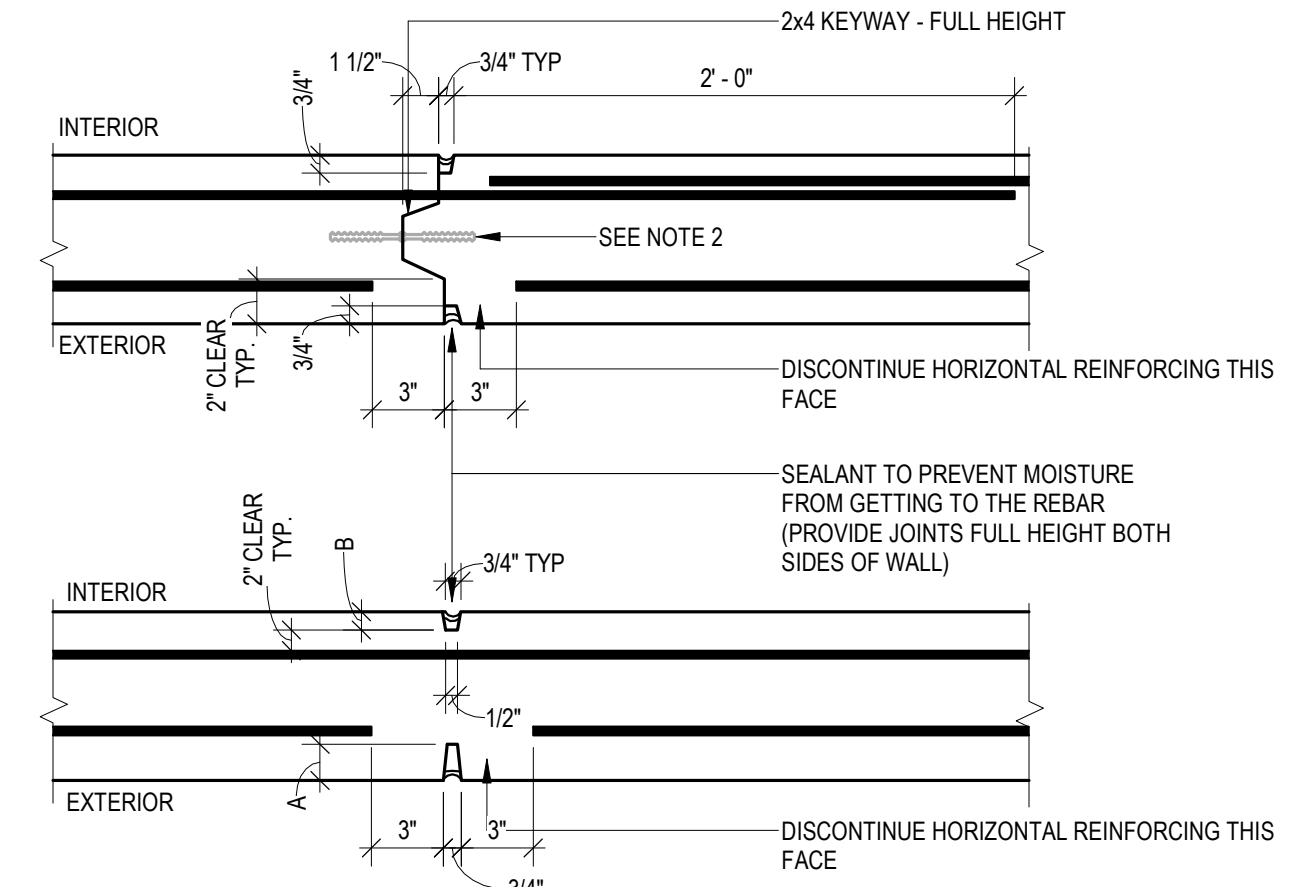
NOTE: VERTICAL REINFORCING BARS NOT DEPICTED FOR CLARITY.



### 4 TYPICAL CORNER/INTERSECTION REINFORCING - LIQUID RETAINING DETAIL

SCALE: NOT TO SCALE  
SD801

CONTROL JOINT DIMENSIONS				
FOUNDATION WALL THICKNESS				
	8"	10"	12"	16"
A	1 1/4"	1 3/4"	2 1/4"	3 1/2"
B	3/4"	3/4"	3/4"	3/4"

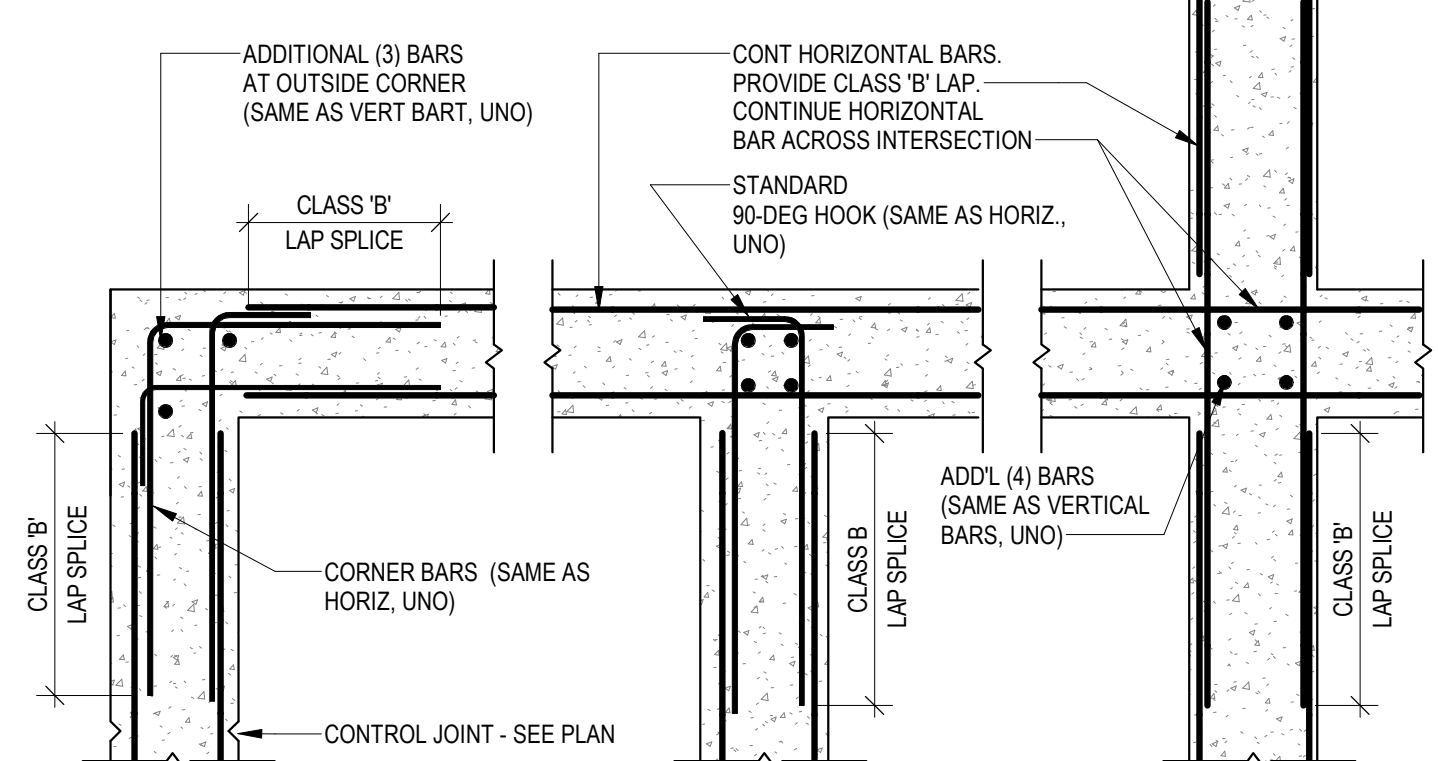


NOTE:  
1. VERTICAL REINFORCING NOT SHOWN FOR CLARITY. SEE PLAN AND SECTIONS FOR REINFORCING REQUIREMENTS  
2. PROVIDE CONTINUOUS PVC WATERSTOP CENTERED IN CJ OF WALLS IN LIQUID RETAINING STRUCTURES.  
3. FOUNDATION WALL JOINTS SHALL BE SPACED AT 30' MAX INTERVALS, U.N.O. SUBMIT PROPOSED JOINT LOCATIONS FOR REVIEW.

### 2 TYPICAL FOUNDATION WALL JOINT (CJ) DETAIL

SCALE: NOT TO SCALE  
SD801

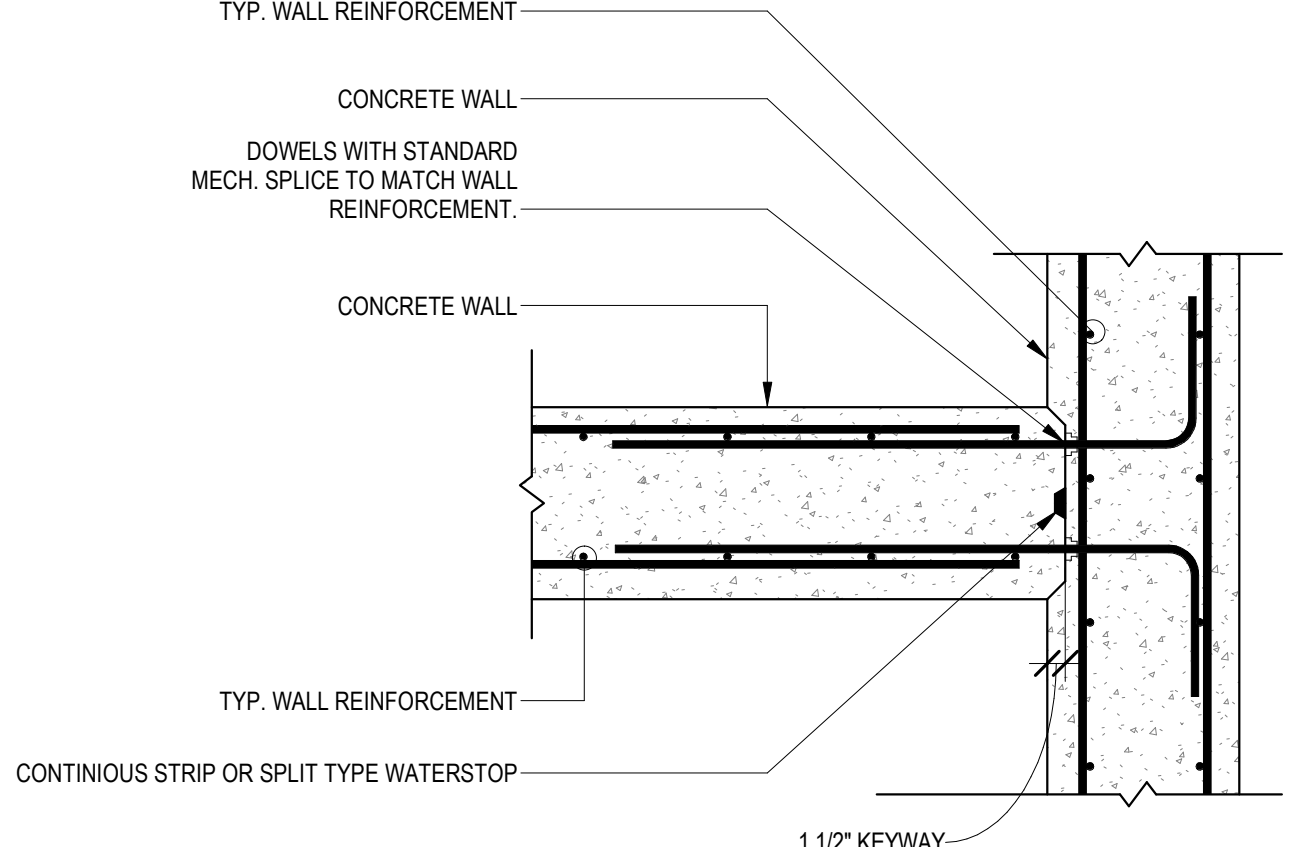
NOTE: VERTICAL REINFORCING BARS NOT DEPICTED FOR CLARITY.



### 5 TYPICAL CORNER/INTERSECTION REINFORCING DETAIL

SCALE: NOT TO SCALE  
SD801

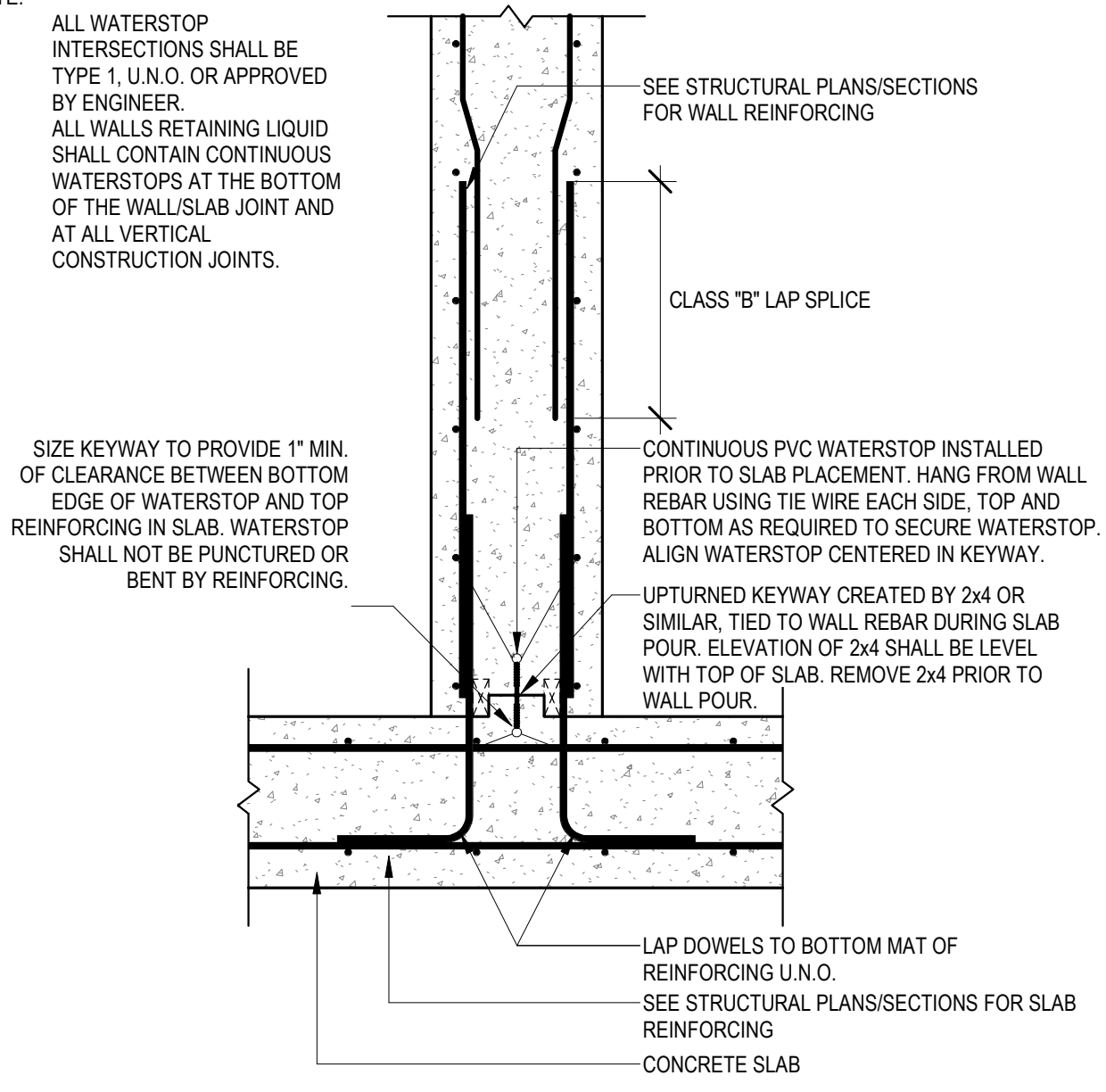
NOTE: VERTICAL REINFORCING BARS NOT DEPICTED FOR CLARITY.



### 6 TYPICAL KEYED WALL DETAIL

SCALE: NOT TO SCALE  
SD801

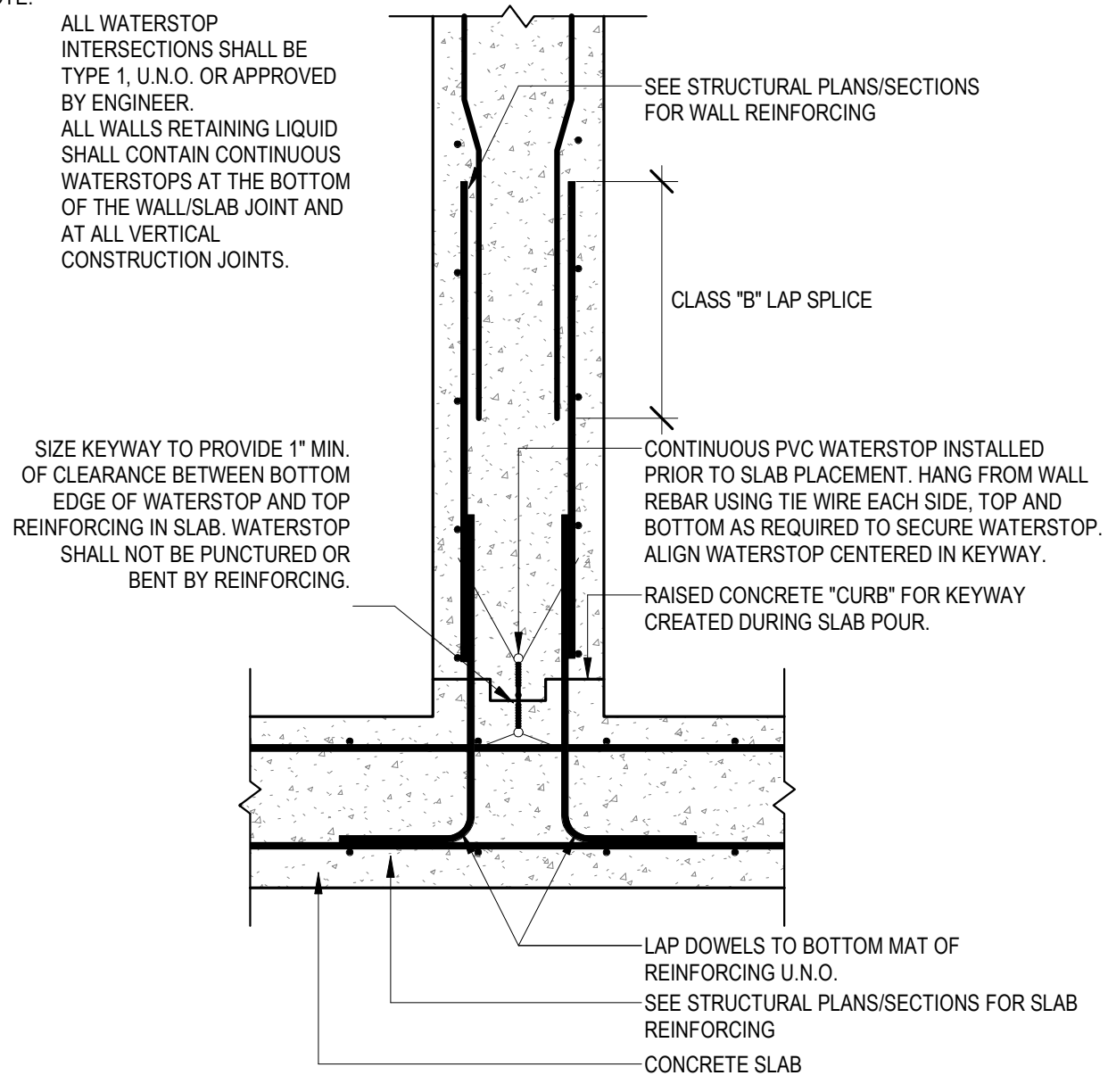
NOTE:  
1. ALL WATERSTOP INTERSECTIONS SHALL BE TYPE 1, U.N.O. OR APPROVED BY ENGINEER.  
2. ALL WALLS RETAINING LIQUID SHALL CONTAIN CONTINUOUS WATERSTOPS AT THE BOTTOM OF THE WALL/SLAB JOINT AND AT ALL VERTICAL CONSTRUCTION JOINTS.



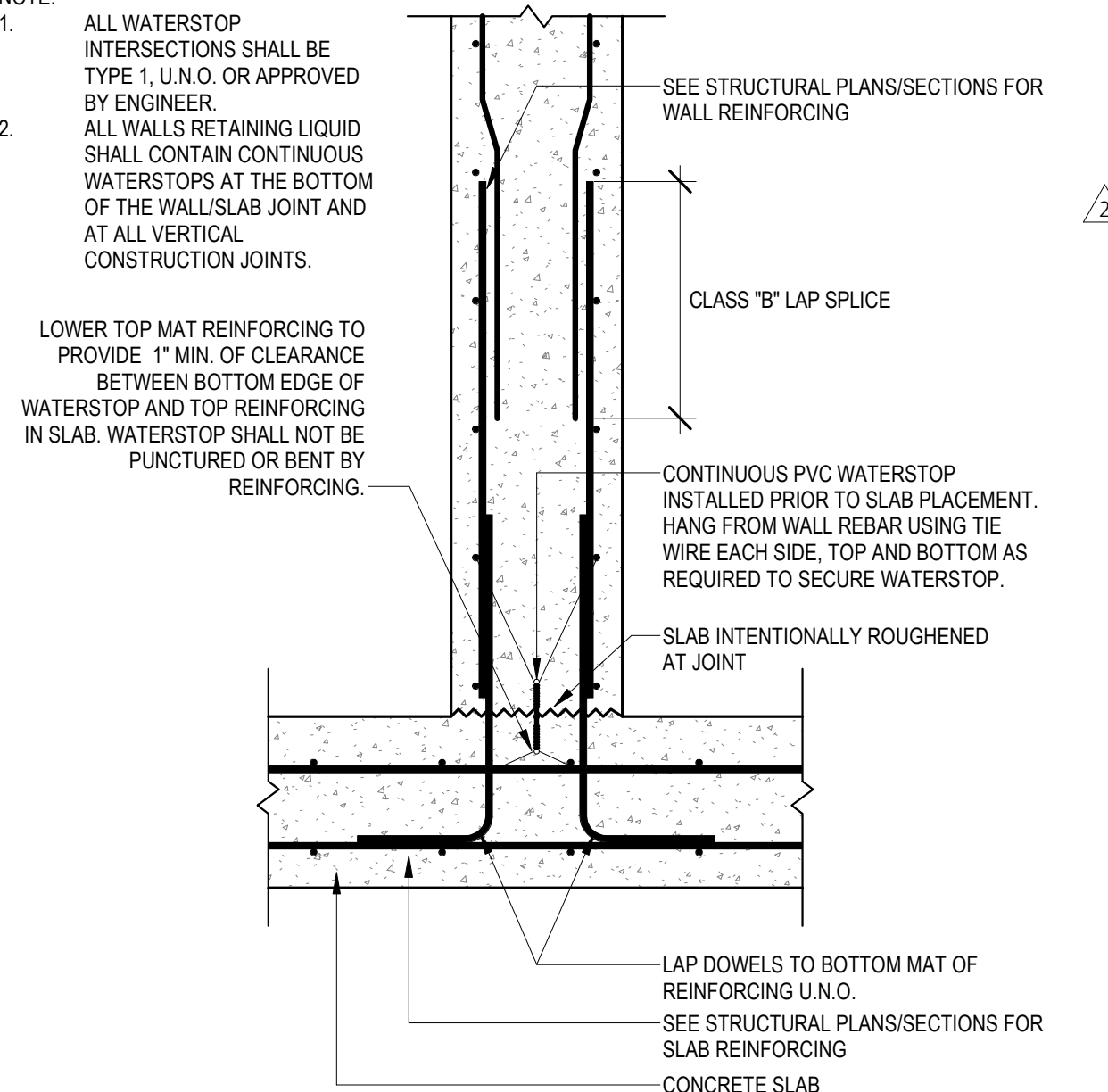
### 7 TYPICAL WATER RETAINING STRUCTURE WALL INTERSECTION CONSTRUCTION JOINT DETAIL

SCALE: NOT TO SCALE  
SD801

NOTE:  
1. ALL WATERSTOP INTERSECTIONS SHALL BE TYPE 1, U.N.O. OR APPROVED BY ENGINEER.  
2. ALL WALLS RETAINING LIQUID SHALL CONTAIN CONTINUOUS WATERSTOPS AT THE BOTTOM OF THE WALL/SLAB JOINT AND AT ALL VERTICAL CONSTRUCTION JOINTS.

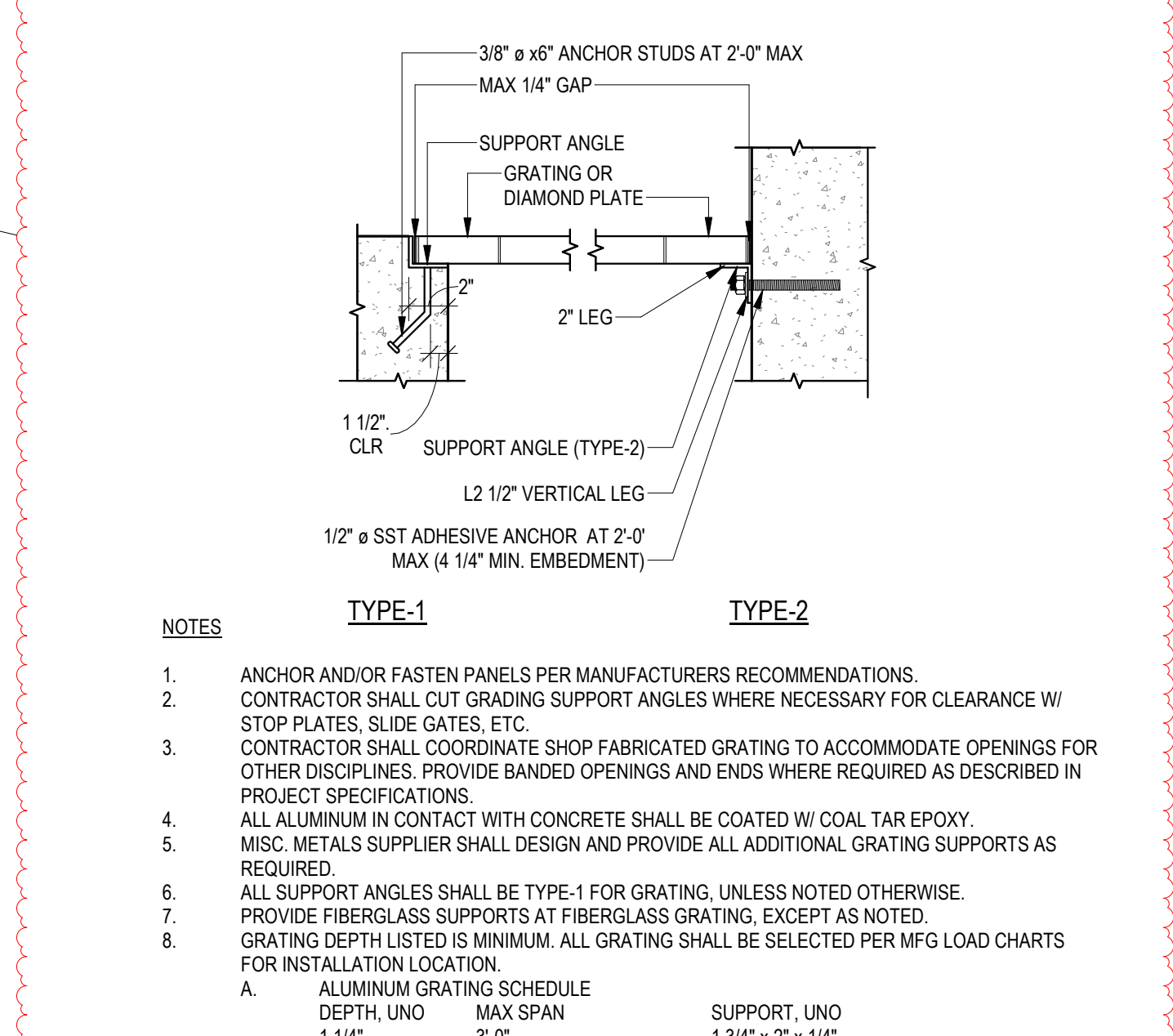


NOTE:  
1. ALL WATERSTOP INTERSECTIONS SHALL BE TYPE 1, U.N.O. OR APPROVED BY ENGINEER.  
2. ALL WALLS RETAINING LIQUID SHALL CONTAIN CONTINUOUS WATERSTOPS AT THE BOTTOM OF THE WALL/SLAB JOINT AND AT ALL VERTICAL CONSTRUCTION JOINTS.



### 8 TYPICAL GRATING SUPPORT DETAIL

SCALE: NOT TO SCALE  
SD801



NOTES

- ANCHOR AND/OR FASTEN PANELS PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR SHALL CUT GRADING SUPPORT ANGLES WHERE NECESSARY FOR CLEARANCE W/ STOP PLATES, SLIDE GATES, ETC.
- CONTRACTOR SHALL COORDINATE SHOP FABRICATED GRATING TO ACCOMMODATE OPENINGS FOR OTHER DISCIPLINES. PROVIDE BANDED OPENINGS AND ENDS WHERE REQUIRED AS DESCRIBED IN PROJECT SPECIFICATIONS.
- ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED W/ COAL TAR EPOXY. MISC. METALS SUPPLIER SHALL DESIGN AND PROVIDE ALL ADDITIONAL GRATING SUPPORTS AS REQUIRED.
- ALL SUPPORT ANGLES SHALL BE TYPE-1 FOR GRATING. UNLESS NOTED OTHERWISE.
- PROVIDE FIBERGLASS SUPPORTS AT FIBERGLASS GRATING, EXCEPT AS NOTED.
- GRATING DEPTH LISTED IS MINIMUM. ALL GRATING SHALL BE SELECTED PER MFG LOAD CHARTS FOR INSTALLATION LOCATION.

A. ALUMINUM GRATING SCHEDULE		
DEPTH, UNO	MAX SPAN	SUPPORT, UNO
1 1/4"	3'-0"	1 3/4" x 2" x 1/4"
1 1/2"	4'-0"	1 3/4" x 2" x 1/4"
2"	5'-0"	2 1/2" x 2" x 3/8"

Autodesk Docs://CHETW19001 - Wastewater Treatment Facility/CHETW19001-AQUA-SBR-PRELIM.rvt 1/12/2023 11:29:47 AM



ENGINEERS - SURVEYORS - ARCHITECTS  
770 Technology Way  
Chippewa Falls, WI 54729  
Phone: 715.861.5226  
www.cbssquaredinc.com

WASTEWATER TREATMENT FACILITY

CITY OF CHETEK  
BARRON COUNTY, WISCONSIN  
STRUCTURAL TYPICAL DETAILS  
Addendum No. 3

Issue:  
Date 12-21-22 Issue for BID

Revisions:

Mark	Date	Issued as
△	1/12/2023	ADD3
△		
△		
△		
△		

Designed by: MJG  
Drawn by: NJA  
Project Number: CHETW19001

Sheet Number: **SD801**