



**555 MLK JR. BLVD. SUITE 602  
PORTLAND, OR 97214**



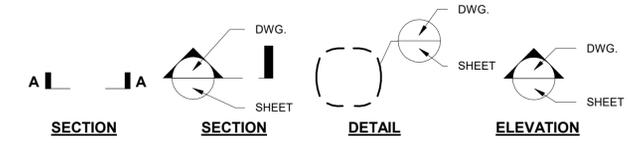
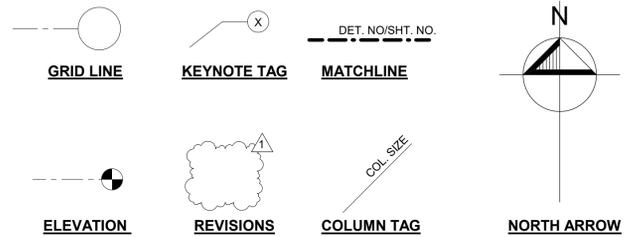
**BEAVERTON SCHOOL DISTRICT - BEAVERTON HIGH SCHOOL -  
BASEBALL/SOFTBALL STADIUM REPAIRS  
13000 SW 2ND STREET, BEAVERTON, OR 97005**

Sheet List	
Sheet Number	Sheet Name
S-000	COVER SHEET
S-001	GENERAL NOTES
S-002	GENERAL NOTES AND SPECIAL INSPECTIONS
S-201	STADIUM FRAMING PLAN
S-501	DETAILS

**CONTACT INFORMATION**

**OWNER**  
Beaverton School District  
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**STRUCTURAL ENGINEER-OF-RECORD**  
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**2 GENERAL SYMBOLS** 1/4" = 1'-0"

(A)	ABOVE	OPNG.	OPENING
A.B.	ANCHOR BOLT	OPP.	OPPOSITE
ADJ.	ADJACENT	PAR.	PARALLEL
(B)	BELOW	PERP.	PERPENDICULAR
BM.	BEAM	PSL	PARALLEL STRAND LUMBER
B.N.	BOUNDARY NAILING	PLYWD.	PLYWOOD
CLR.	CLEAR	REINF.	REINFORCING
COL.	COLUMN	REQ'D	REQUIRED
COLL	COLLECTOR	REV.	REVISION
CONC.	CONCRETE	S.A.D.	SEE ARCHITECTURAL DRAWINGS
CONN.	CONNECTION	SCH.	SCHEDULE
CONT.	CONTINUOUS	SIMP.	SIMPSON
DBL	DOUBLE	SIM.	SIMILAR
DET.	DETAIL	S.O.G.	SLAB ON GRADE
(E)	EXISTING	SPEC.	SPECIFICATIONS
E/E	EACH END	SQ.	SQUARE
E/F	EACH FACE	STAG.	STAGGERED
E/S	EACH SIDE	STIFF.	STIFFENER
E/W	EACH WAY	STL.	STEEL
E.N.	EDGE NAILING	S.W.	SHEAR WALL
FDN.	FOUNDATION	T&B	TOP AND BOTTOM
FLR.	FLOOR	T&G	TONGUE AND GROOVE
F.N.	FIELD NAILING	THK.	THICK
FTG.	FOOTING	THRD.	THREADED
H.D.G.	HOT DIPPED GALVANIZED	THRU	THROUGH
HDR.	HEADER	T.O.	TOP OF
HORIZ.	HORIZONTAL	T.O.C	TOP OF CONCRETE
L.S.	LAG SCREW	T.O.S.	TOP OF SLAB/STEEL
LVL	LAMINATED VENEER LUMBER	TYP.	TYPICAL
MAX.	MAXIMUM	U.O.N	UNLESS OTHERWISE NOTED
MIN.	MINIMUM	VERT.	VERTICAL
MTL.	METAL	V.I.F.	VERIFY IN FIELD
(N)	NEW	W/	WITH
N.I.C.	NOT IN CONTRACT	WD.	WOOD
N.T.S	NOT TO SCALE	W.P.	WORKING POINT
N.W.	NORMAL WEIGHT		
O.C.	ON CENTER		

**1 ABBREVIATIONS** N.T.S.

STRUCTURAL ENGINEER



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PROJECT NAME / LOCATION

**BEAVERTON HIGH  
SCHOOL -  
BASEBALL/SOFTBALL  
STADIUM REPAIRS**

ISSUE / REVISION

No.	DESCRIPTION	DATE
100%	CD	04/19/2021

SCALE AS NOTED  
IF PRINT SIZE IS  
24"x36"

DESIGN CH

DRAWN CC

DATE 04.19.2021

PROJECT No. 20436.10

DRAWING TITLE

**COVER SHEET**

**S-000**

100% CONSTRUCTION DOCUMENTS



**10. MECHANICAL ANCHORS**

- A. EXPANSION ANCHORS INTO CONCRETE SHALL BE
  - 1) HILTI KB-TZ (ICC ESR-1917)
- B. SCREW ANCHORS INTO CONCRETE/MASONRY SHALL BE:
  - 1) HILTI KWIK HUS-EZ (ICC ESR-3056)
- C. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. DO NOT CUT EXISTING REINFORCEMENT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- D. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS.

**11. EPOXY GROUTING OF DOWELS, REBAR AND ANCHOR BOLTS**

- A. INSTALLATION OF POST-INSTALLED DOWELS, REBAR AND ANCHOR BOLTS (EPOXY ANCHORS) SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), WHERE THERE IS A CONFLICT BETWEEN THESE NOTES AND THE MPII, SEE MPII FOR CLARIFICATION.
- B. EPOXY ANCHORS SHALL MEET THE REQUIREMENTS OF ACI 355.4 AND THE FOLLOWING INSTALLATION REQUIREMENTS, UNLESS OTHERWISE NOTED.
  - 1) MINIMUM AGE OF CONCRETE: 21 DAYS
  - 2) CONCRETE TEMPERATURE RANGE: 50-80 DEGREES FAHRENHEIT
  - 3) MOISTURE CONDITION OF CONCRETE: DRY
- C. EPOXY GROUTING WILL BE USED IN ALL LOCATIONS WHERE EITHER ALL-THREAD ROD OR REBAR ARE BEING EMBEDDED INTO EXISTING CONCRETE, CMU, OR BRICK.
- D. IN CONCRETE, HOLES SHALL BE DRILLED WITH ROTARY HAMMER UNLESS NOTED OTHERWISE.
- E. IN BRICK, HOLES SHALL BE DRILLED WITH NON-IMPACT TOOLS, NO ROTARY HAMMERS.
- F. EPOXY GROUT FOR DOWNWARD HOLES SHALL BE EITHER NON-SAG OR LIQUID TYPE, NORMAL SET. HORIZONTAL OR OVERHEAD HOLES SHALL BE NON-SAG TYPE. FOR OVERHEAD APPLICATIONS A PISTON PLUG SHALL BE USED.
- G. UNLESS OTHERWISE NOTED, EPOXY TYPES SHALL BE AS FOLLOWS:
  - FOR ANCHOR BOLTS IN CONCRETE, EPOXY SHALL BE
    - HILTI HIT-HY 200 (ICC-ES ESR-3574)
  - FOR CONCRETE MASONRY UNITS (CMU), EPOXY SHALL BE:
    - HILTI HIT-HY 270 (ICC-ES ESR-4143)

ALTERNATES WILL BE CONSIDERED UPON REQUEST AND SUBMISSION OF PRODUCT EVALUATION REPORT IN ACCORDANCE WITH ACI 355.4.

- 1) WHEN INSTALLING ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS OR POST TENSIONING TENDONS. IN POST TENSION ELEMENTS THE CONTRACTOR SHALL SCAN PRIOR TO LOCATE THE EXISTING TENDONS PRIOR TO INSTALLING THE ANCHOR.
- 2) IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF 2 ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE DOWEL AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED, THE ENGINEER WILL DETERMINE A NEW LOCATION.
- 3) LOCATE EXISTING REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ANCHORS.

**12. METAL FLASHING**

- A. FABRICATE FLASHING TO COMPLY WITH RECOMMENDATIONS IN SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO DESIGN, DIMENSIONS, METAL, AND OTHER CHARACTERISTICS. SHOP FABRICATE ITEMS WHERE PRACTICAL. OBTAIN FIELD MEASUREMENTS FOR ACCURATE FIT BEFORE SHOP FABRICATION. FABRICATE FLASHINGS TO PROVIDE POSITIVE DRAINAGE. PROVIDE SHEET METAL FLASHING THAT DO NOT ALLOW WATER INFILTRATION TO MASONRY MATERIAL PENETRATIONS. LAP ALL FLASHINGS A MINIMUM OF 6". SET IN A MINIMUM TWO BEADS OF SEALANT. SHEET METAL FINISHES TO COMPLY WITH NAAMMS "METAL FINISHES MANUAL FOR ARCHITECTURAL AND METAL PRODUCTS".

**SPECIAL INSPECTIONS**

MASONRY AND CONCRETE:

- 1) VERIFICATION OF SLUMP FLOW (CONTINUOUS)
- 2) VERIFICATION OF f'm AND f\_c (CONTINUOUS)
- 3) PROPORTIONS OF SITE PREPARED MORTAR/GROUT (PERIODIC)
- 4) CONSTRUCTION OF MORTAR JOINTS AND PATCHES (PERIODIC)
- 5) LOCATION, SIZE, LENGTH AND TYPE OF POST-INSTALLED ANCHORS (PERIODIC)

STEEL:

- 1) FABRICATOR AND ERECTOR DOCUMENTS PER AISC 360 N3 (OBSERVE)
- 2) MATERIAL VERIFICATION (OBSERVE)
- 3) MEMBER LOCATIONS AND DETAILS COMPLY WITH CONSTRUCTION DOCUMENTS (OBSERVE)
- 4) PERFORM WELD INSPECTION PER AISC TABLES N5.4-1 THROUGH N5.4-3.

**CLOSEOUT**

**SUBMITTALS**

- A. PROJECT RECORD DOCUMENTS: SUBMIT ELECTRONIC DOCUMENTS TO ARCHITECT VIA eBuilder WITH CLAIM FOR FINAL APPLICATION OF PAYMENT.
- B. CLOSE OUT SUBMITTAL LOG:
  - a. MANUAL TO INCLUDE A LOG LISTING THE CLOSEOUT DELIVERABLES IN ORDER OF SPECIFICATION NUMBER. LOG TO INCLUDE A COLUMN FOR EACH OF THE FOLLOWING: SPECIFICATION NUMBER, SPEC TITLE, CONTRACTOR RESPONSIBLE, PRODUCT DATA, OPERATION & MAINTENANCE DATA, SHOP DRAWINGS, WARRANTY, AND RECORD DOCUMENTS.
- C. OPERATION AND MAINTENANCE DATA:
  - a. FOR EQUIPMENT, OR COMPONENT PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION AND OPERATED BY OWNER, SUBMIT COMPLETED DOCUMENTS WITHIN TEN DAYS AFTER ACCEPTANCE.
  - b. SUBMIT ONE COPY OF COMPLETED DOCUMENTS 15 DAYS PRIOR TO FINAL INSPECTION. THIS COPY WILL BE REVIEWED AND RETURNED AFTER FINAL INSPECTION, WITH STRUCTURAL ENGINEER-OF-RECORD COMMENTS. REVISED CONTENT OF ALL DOCUMENT SETS AS REQUIRED PRIOR TO FINAL SUBMISSION.
  - c. SUBMIT ONE ELECTRONIC SET VIA eBuilder OF REVISED FINAL DOCUMENTS IN FINAL FORM WITHIN 10 DAYS OF FINAL INSPECTION.
- D. WARRANTIES AND BONDS:
  - a. FOR EQUIPMENT OR COMPONENT PARTS OF EQUIPMENT PUT INTO SERVICE DURING CONSTRUCTION WITH OWNER'S PERMISSION, SUBMIT DOCUMENTS WITHIN 10 DAYS AFTER ACCEPTANCE.
  - b. MAKE OTHER SUBMITTALS WITHIN 10 DAYS AFTER DATE OF SUBSTANTIAL COMPLETION, PRIOR TO FINAL APPLICATION FOR PAYMENT.
  - c. FOR ITEMS OF WORK FOR WHICH ACCEPTANCE IS DELAYED BEYOND DATE OF SUBSTANTIAL COMPLETION, SUBMIT WITHIN 10 DAYS AFTER ACCEPTANCE, LISTING THE DATE OF ACCEPTANCE AS THE BEGINNING OF THE WARRANTY PERIOD.
- E. STAMPED AUTHORITY HAVING JURISDICTION (AHJ) PERMIT DRAWINGS: SUBMIT ELECTRONIC DOCUMENTS TO ARCHITECT AND OWNER VIA eBuilder.

**PROJECT RECORD DOCUMENTS**

- A. MAINTAIN THE FOLLOWING RECORD DOCUMENTS ON e-Builder; RECORD ACTUAL REVISIONS TO THE WORK:
  - a. DRAWINGS.
  - b. SPECIFICATIONS.
  - c. ADDENDA.
  - d. CHANGE ORDERS AND OTHER MODIFICATIONS TO THE CONTRACT.
  - e. REVIEWED SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
  - f. MANUFACTURER'S INSTRUCTION FOR ASSEMBLY, INSTALLATION, AND ADJUSTING.
- B. ENSURE ENTRIES ARE COMPLETE AND ACCURATE, ENABLING FUTURE REFERENCE BY OWNER.
- C. STORE RECORD DOCUMENTS SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION.
- D. RECORD INFORMATION CONCURRENT WITH CONSTRUCTION PROGRESS.
- E. SPECIFICATIONS: LEGIBLY MARK AND RECORD AT EACH PRODUCT SECTION DESCRIPTION OF ACTUAL PRODUCTS INSTALLED, INCLUDING THE FOLLOWING:
  - a. CHANGES MADE BY ADDENDA AND MODIFICATIONS.
- F. RECORD DRAWINGS AND SHOP DRAWINGS: LEGIBLY MARK EACH ITEM TO RECORD ACTUAL CONSTRUCTION INCLUDING:
  - a. FIELD CHANGES OF DIMENSION AND DETAIL
  - b. DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS.
- G. SUBMITTAL OF RECORD DOCUMENTS AND REVIEW PROCESS WILL BE THROUGH e-Builder.
- H. PROVIDE:
  - a. AS-BUILTS IN PDF AND HARD COPY.
  - b. ORIGINAL AHJ STAMPED PERMIT DRAWINGS IN BOTH PDF AND HARD COPY.
  - c. WARRANTIES IN PDF.
  - d. O&M'S IN PDF.
  - e. SHOP DRAWINGS IN PDF.
  - f. CONTACT LIST IN PDF.

**BSD SECURITY REQUIREMENTS**

**BACKGROUND CHECK:** ALL CONTRACTORS AND SUBCONTRACTORS SHALL ADHERE TO ALL BACKGROUND CHECK AND SECURITY REQUIREMENTS OF THE BEAVERTON SCHOOL DISTRICT.

■ STRUCTURAL ENGINEER



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■ DESIGN CH

■ DRAWN CC

■ DATE 04.19.2021

■ PROJECT No. 20436.10

■ DRAWING TITLE

GENERAL NOTES  
AND SPECIAL  
INSPECTIONS

S-002

100% CONSTRUCTION DOCUMENTS



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DESIGN Designer

DRAWN Author

DATE 04.19.2021

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STADIUM FRAMING  
PLAN

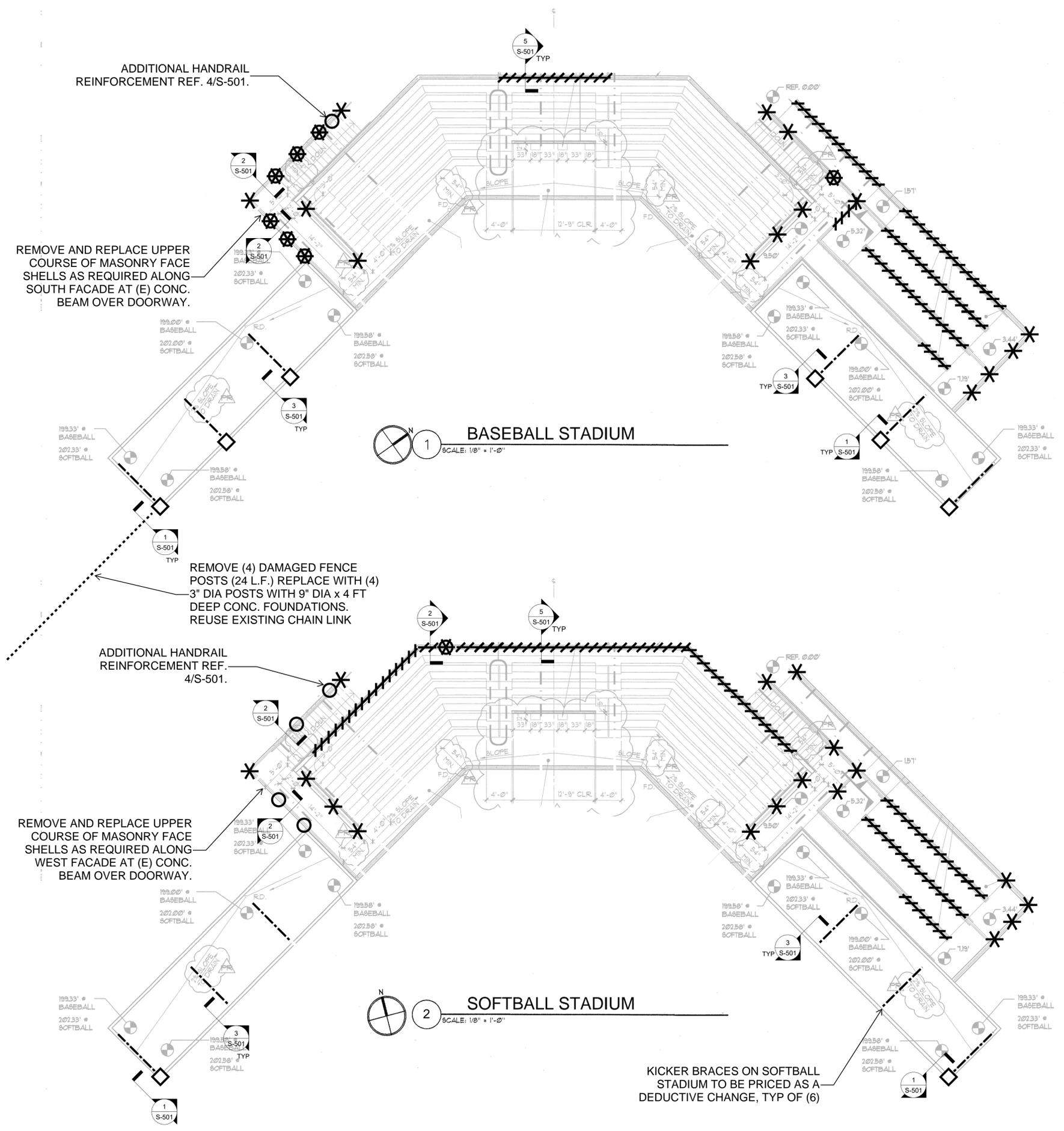
S-201

LEGEND:

- \* INDICATES LOCAL MASONRY REPAIR AT EXISTING HANDRAIL STANCHION. REMOVE AND REPLACE DAMAGED FACE SHELLS. REMOVE UNSOUND GROUT AND MORTAR AND REPLACE WITH HIGH-STRENGTH NON-SHRINK GROUT. REPLACE SHEET METAL FLASHING AS OCCURS - SEE NOTE 4 AND 5/S-501.
- ////// INDICATES REPAIR OF EXISTING MASONRY CAPSTONE AND MORTAR JOINT BETWEEN CAPSTONE AND WALL BELOW. REPLACE SHEET METAL FLASHING AS OCCURS - SEE NOTE 4 AND 5/S-501.
- INDICATES STRUCTURAL REINFORCEMENT OF EXISTING HANDRAIL STANCHION. REFERENCE DETAIL 2/S-501. REPLACE SHEET METAL FLASHING AS OCCURS - SEE NOTE 4 AND 5/S-501.
- ⊗ INDICATES BOTH LOCAL MASONRY REPAIR AND STRUCTURAL REINFORCEMENT OF EXISTING STANCHION. REPLACE SHEET METAL FLASHING AS OCCURS - SEE NOTE 4 AND 5/S-501.
- ◇ INDICATES LOCAL REPAIR AND REINFORCEMENT OF EXISTING REINFORCED CONCRETE BEAM AROUND EXISTING BACKSTOP POST. REF. DETAIL 1/S-501.
- INDICATES NEW KICKER BRACE AT EXISTING BACKSTOP POST. REF. DETAIL 3/S-501.

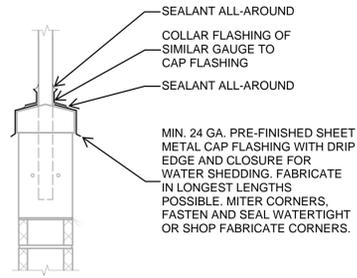
NOTES:

- 1) CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO FABRICATION AND ERECTION. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE DRAWINGS.
- 2) CONTRACTOR TO SHORE ALL EXISTING FRAMING AS REQUIRED FOR DEMOLITION AND REPAIR WORK.
- 3) ALL EXPOSED MASONRY AND CONCRETE SHALL BE INSPECTED FOR CRACKS AND DAMAGE BY THE CONTRACTOR AND FINDINGS REPORTED TO THE ENGINEER OF RECORD.
- 4) EXISTING COMPOSITE AND METAL FLASHING CAPS TO BE REMOVED AND EXISTING MASONRY CAPSTONES TO BE INSPECTED FOR DAMAGE AT ALL TOP OF WALL SURFACES. REPLACE FLASHING CAPS WITH NEW SHEET METAL FLASHING CAPS WITH DRIP EDGE. PROVIDE SHEET METAL COLLAR FLASHING AT EACH VERT. HANDRAIL STANCHION USING METAL FLASHING AND COMPATIBLE HIGH-QUALITY SILICONE SEALANT RATED FOR OUTDOOR USE. SEE DETAIL 5/S-501 FOR FLASHING DETAIL AT ALL VERTICAL PENETRATIONS. FLASHING REPAIR IS IN ADDITION TO CAPSTONE MASONRY REPAIR NOTED ON PLAN AT SPECIFIC LOCATIONS.
- 5) ALL STEEL AND FASTENERS TO BE HOT-DIP GALVANIZED OR PAINTED WITH ZINC-RICH PAINT.

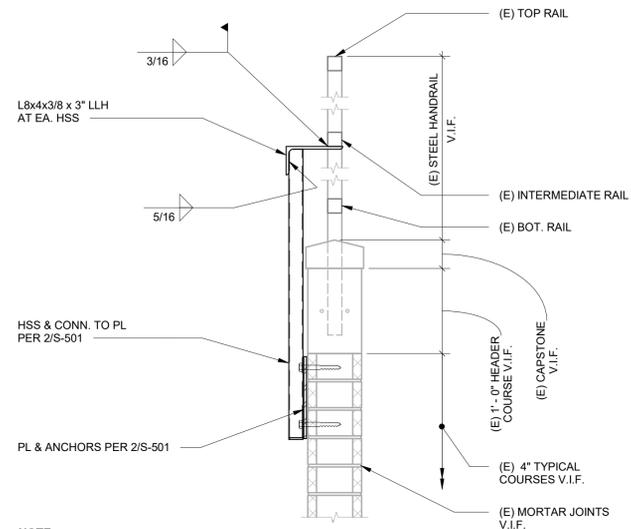


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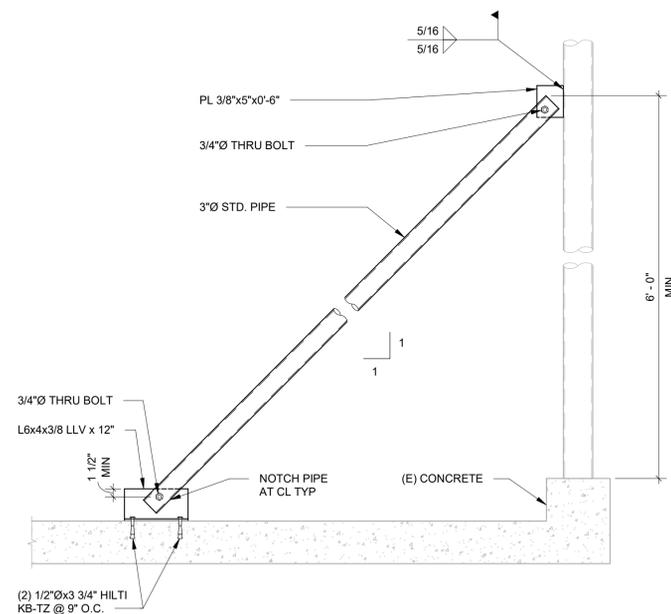


**5 METAL FLASHING CAP DETAIL**  
 S-501 1" = 1'-0"



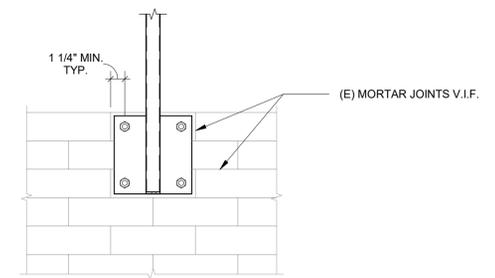
**NOTE:**  
 1. VERIFY ALL CELLS RECEIVING ANCHORS ARE FULLY GROUTED. REPAIR AND REPLACE DAMAGED OR MISSING GROUT.  
 2. ALL STEEL AND FASTENERS TO BE HOT-DIP GALVANIZED OR PAINTED WITH ZINC RICH PAINT.  
 3. PROVIDE 1/2" DIA WEEP HOLES AT THE BOTTOM OF ALL CLOSED SECTIONS.  
 4. SEE 2/S-501 FOR INFORMATION NOT NOTED.

**4 HANDRAIL STANCHION REINFORCEMENT**  
 S-501 1" = 1'-0"

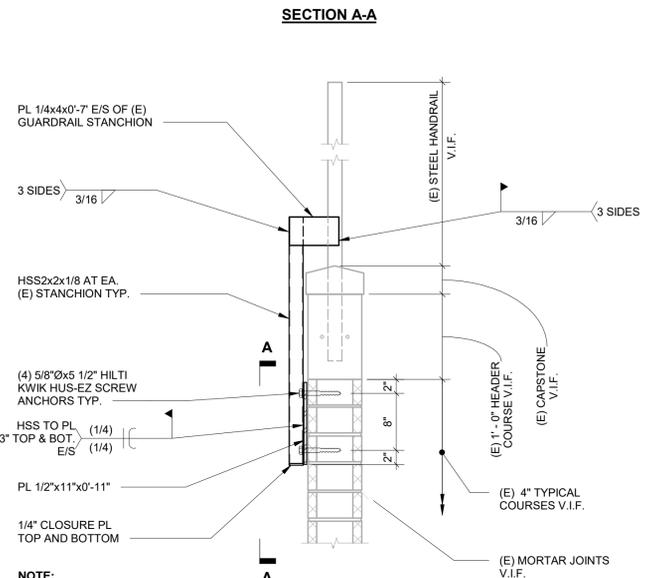


**NOTE:**  
 ALL STEEL AND FASTENERS TO BE HOT-DIP GALVANIZED OR PAINTED WITH ZINC RICH PAINT.

**3 BACKSTOP KICKER BRACE**  
 S-501 3/4" = 1'-0"

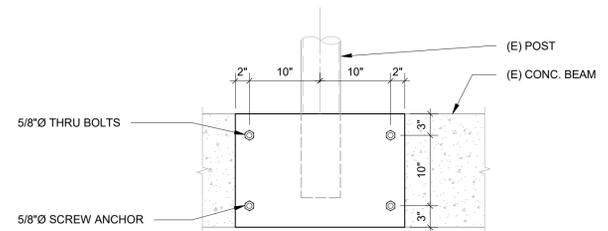


**NOTE:**  
 HSS STANCHION MAY BE SHIFTED OFF PLATE CENTERLINE TO ACHIEVE REQUIRED ANCHOR EDGE DISTANCE TO (E) MORTAR JOINTS.

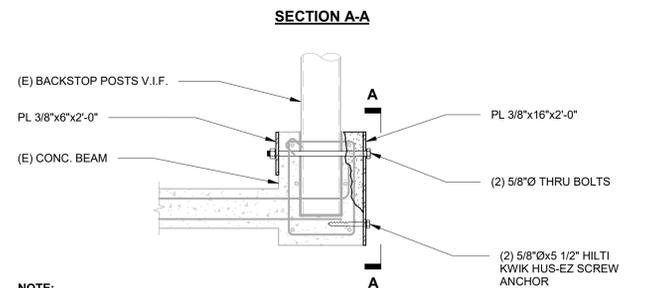


**NOTE:**  
 1. VERIFY ALL CELLS RECEIVING ANCHORS ARE FULLY GROUTED. REPAIR AND REPLACE DAMAGED OR MISSING GROUT.  
 2. ALL STEEL AND FASTENERS TO BE HOT-DIP GALVANIZED OR PAINTED WITH ZINC RICH PAINT.  
 3. PROVIDE 1/2" DIA WEEP HOLES AT THE BOTTOM OF ALL CLOSED SECTIONS.

**2 HANDRAIL STANCHION REINFORCEMENT**  
 S-501 1" = 1'-0"



**NOTES:**  
 1. SCAN (E) CONCRETE FOR REINF. (E) REINF. MAY NOT BE CUT OR DRILLED



**NOTE:**  
 1. REMOVE DAMAGED/UNBOUND CONCRETE USING A LIGHT CHIPPING HAMMER. PATCH OR FORM AND RE-POUR USING HIGH-STRENGTH NON-SHRINK GROUT.  
 2. ALL STEEL AND FASTENERS TO BE HOT-DIP GALVANIZED OR PAINTED WITH ZINC RICH PAINT.

**1 BACKSTOP REINFORCEMENT**  
 S-501 1" = 1'-0"

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