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CLEAN WATER SERVICES - ROCK CREEK ROCK CREEK CLARIFIERS NO. 1-3 CONCRETE LAUNDRER REPAIRS

CWS PROJECT #: 7297

JUNE 2026

STRUCTURAL SHEETS:

- S1 COVER SHEET
- S2 GENERAL STRUCTURAL NOTES
- S3 QA/QC PLAN & SPECIAL INSPECTIONS
- S4 SPECIAL INSPECTIONS & CLARIFIER LAUNDRER AND ROOF PLANS
- S5 SHORING ELEVATION, WALL ELEVATION, ROOF HUB SECTION & STRUCTURAL DETAIL
- S6 TRUSS AND ROOF WALL SUPPORT DETAILS & CONCRETE REPAIR NOTES

ABBREVIATIONS

AB	- ANCHOR BOLT	GR	- GRADE
ALT	- ALTERNATE	GRTG	- GRATING
APPROX	- APPROXIMATE	HDR	- HEADER
ASTM	- AMERICAN SOCIETY FOR TESTING MATERIALS	HORIZ	- HORIZONTAL
ATR	- ALL THREAD ROD	ID	- INSIDE DIAMETER
BLDG	- BUILDING	IE	- INVERT ELEVATION
BST	- BOTTOM OF STEEL	IF	- INSIDE FACE
BTF	- BOTTOM FACE	INTR	- INTERIOR
BOC	- BOTTOM OF CONCRETE	JT	- JOINT
BOF	- BOTTOM OF FOOTING/FOUNDATION	LONG	- LONGITUDINAL
CTC (C-C)	- CENTER TO CENTER	MECH	- MECHANICAL
CL	- CENTER LINE	MG	- MILLION GALLON(S)
CJ	- CONSTRUCTION JOINT	MISC	- MISCELLANEOUS
CIP	- CAST IN PLACE	(N)	- NEW
CLJ	- CONTROL JOINT	NA	- NOT APPLICABLE
CLR	- CLEAR	NTS	- NOT TO SCALE
CTR	- CENTER	OC	- ON CENTER
CONC	- CONCRETE	OD	- OUTSIDE DIAMETER
CONN	- CONNECTION	OPP	- OPPOSITE
CONT	- CONTINUOUS	PERF	- PERFORATED
DEMO	- DEMOLISH	PERP	- PERPENDICULAR
DET	- DETAIL	PL	- PLATE
DIA	- DIAMETER	RAD	- RADIUS
DIM	- DIMENSION	RC	- REINFORCED CONCRETE
DIST	- DISTANCE	REF	- REFERENCE
EA	- EACH	REINF	- REINFORCE(D)(ING)(MENT)
EE	- EACH END	REQ'D	- REQUIRED
EF	- EACH FACE	RES	- RESERVOIR
EL	- ELEVATION	SIM	- SIMILAR
ELEC	- ELECTRICAL	SOG	- SLAB ON GRADE
ENCL	- ENCLOSURE	SPEC(S)	- SPECIFICATION(S)
S/EOR	- STRUCTURAL/ENGINEER OF RECORD	SQ	- SQUARE
EQ	- EQUAL	SS	- STAINLESS STEEL
EQL SP	- EQUALLY SPACED	STD	- STANDARD
EQUIP	- EQUIPMENT	SYMM	- SYMMETRICAL
(E)	- EXISTING	T&B	- TOP & BOTTOM
EXT	- EXTERIOR	THK	- THICK
EF	- EACH FACE	THRU	- THROUGH
EW	- EACH WAY	TOC	- TOP OF CONCRETE
FAB	- FABRICATE	TOF	- TOP OF FOOTING/FOUNDATION
FG	- FINISH GRADE	TOS	- TOP OF SLAB
FTG	- FOOTING	TOW	- TOP OF WALL
FDN	- FOUNDATION	TST	- TOP OF STEEL
FIN	- FINISH(ED)	TYP	- TYPICAL
FLR	- FLOOR	UNO	- UNLESS NOTED OTHERWISE
FTG	- FOOTING	VERT	- VERTICAL
GA	- GAUGE	VIF	- VERIFY IN FIELD
GALV	- GALVANIZED	W/	- WITH
		W/C	- WATER CONTENT
		W/O	- WITHOUT

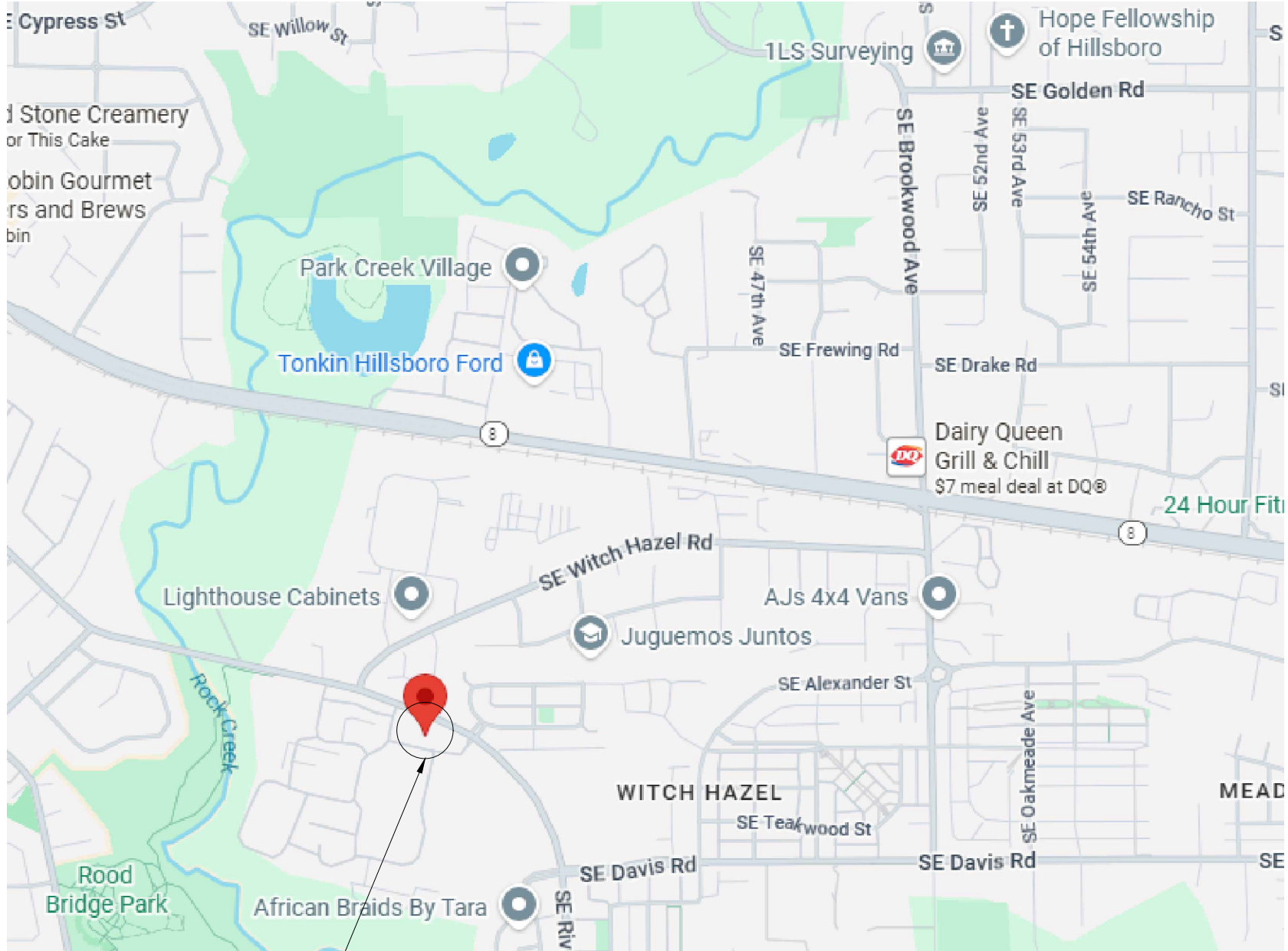
DEFERRED SUBMITTALS:

PREFABRICATED COMPONENTS, SPECIALTY ITEMS, OR BIDDER-DESIGNED ELEMENTS NOTED ON THE CONSTRUCTION DOCUMENTS, BUT WHICH REQUIRE THE MANUFACTURER OR SUPPLIER TO PROVIDE THE DESIGN, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL EOR FOR REVIEW AS A DEFERRED SUBMITTAL. IT SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING ITEMS:

- TRUSS SHORING PLAN AND CALCULATIONS, STAMPED BY AN OREGON LICENSED PROFESSIONAL ENGINEER

NOTE:

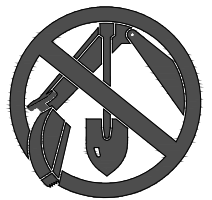
- DEFERRED SUBMITTAL SHALL INCLUDE CALCULATIONS AND DRAWINGS STAMPED BY AN APPROPRIATELY LICENSED ENGINEER (SPECIALTY ENGINEER) SHOWING LOCATION AND MAGNITUDE OF LOADS, CONFIGURATION AND SIZE OF MEMBERS, AND COMPATIBILITY OF SUBMITTAL ITEM WITH THE PRIMARY STRUCTURAL SYSTEM.
- THE PURPOSE OF THE STRUCTURAL EOR'S REVIEW OF DEFERRED SUBMITTALS SHALL BE LIMITED TO GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS AND WITH THE REFERENCED BUILDING CODE, COMPATIBILITY OF CONNECTIONS TO THE PRIMARY STRUCTURE WITH THE PRIMARY DESIGN AND STRUCTURAL CAPACITY OF THE PRIMARY STRUCTURE TO SUPPORT THE IMPOSED LOADS.



CLEAN WATER SERVICES - ROCK CREEK
3235 SE RIVER ROAD
HILLSBORO, OR 97123

VICINITY MAP

NTS



UTILITY LOCATES (503) 232-1987
48 BUSINESS HOURS NOTICE PRIOR TO EVACUATION

OREGON LAW REQUIRES CONTRACTOR TO COMPLY WITH RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. COPIES OF RULES MAY BE OBTAINED BY CONTACTING THE UTILITY LOCATE CENTER AT (503)-232-1937.

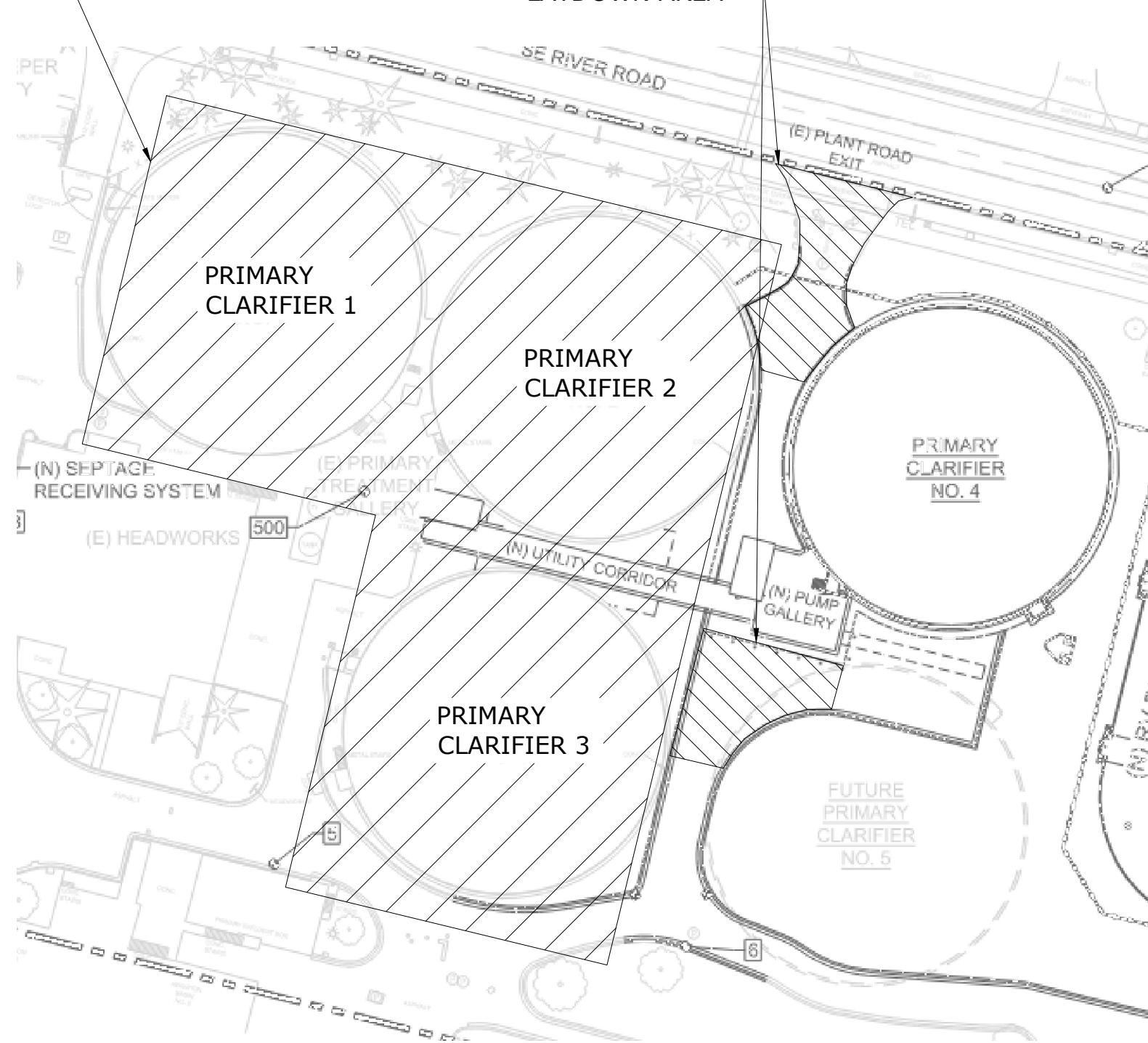
OWNER:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123
(503)-681-3600

ENGINEER:
PETERSON STRUCTURAL ENGINEERS
9400 SW BARNES ROAD SUITE 100
PORTLAND, OR 97225
(503)-292-1635

SITE ADDRESS:
3235 SE RIVER ROAD
HILLSBORO, OR 97123

APPROXIMATE
AREA OF WORK

PRELIMINARY STAGING &
LAYDOWN AREA



SITE PLAN

NTS

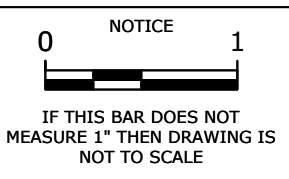


GENERAL:

- EXISTING UTILITY LOCATIONS ARE APPROXIMATE ONLY. IN ORDER TO PROTECT EXISTING UNDERGROUND UTILITIES, CONTRACTORS PERFORMING WORK SHOWN ON THESE PLANS MUST NOTIFY UTILITIES AND PUBLIC AGENCIES AT LEAST 48 BUSINESS HOURS IN ADVANCE OF, AND NO MORE THAN 10 BUSINESS DAYS BEFORE, BEGINNING EXCAVATION, IN ACCORDANCE WITH THE PROVISIONS OF OAR 952-001-0090. LIMITS OF WORK SHALL BE PRE-MARKED FOR THE UTILITY LOCATORS. POTHOLE ALL CROSSINGS AS NECESSARY TO PREVENT GRADE AND ALIGNMENT CONFLICTS. REPORT ALL CONFLICTS TO THE ENGINEER IMMEDIATELY. PROTECT EXISTING UTILITIES AT ALL TIMES DURING CONSTRUCTION. CALL THE ONE CALL UTILITY NOTIFICATION CENTER AT 503-246-6699 FOR UTILITY LOCATES. ANY DAMAGE TO EXISTING UTILITIES, WHETHER THEY'RE SHOWN ON THESE DRAWINGS OR NOT, WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL EXERCISE ALL DUE CARE IN PROTECTING PROPERTY ALONG THE ROUTE OF THE IMPROVEMENTS. THIS PROTECTION SHALL INCLUDE, BUT NOT BE LIMITED TO, TREES, YARDS, FENCES, DRAINAGE LINES, MAIL BOXES, DRIVEWAYS, SHRUBS, LAWNS, IRRIGATION SYSTEMS, WITHIN ANY RIGHT-OF-WAYS AND EASEMENTS. IF ANY OF THE ABOVE HAVE BEEN DISTURBED, THEY SHALL BE RESTORED AS NECESSARY TO AS NEAR THEIR ORIGINAL CONDITION AS POSSIBLE OR REPLACED IN KIND.
- THE CONTRACTOR SHALL PERFORM ALL THE WORK SHOWN ON THE DRAWINGS AND ALL INCIDENTAL WORK CONSIDERED NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER.
- THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR AT LEAST 48 HOURS (TWO FULL WORKING DAYS) PRIOR TO BEGINNING THE PROJECT. CONNECTIONS BETWEEN EXISTING INFRASTRUCTURE AND NEW WORK SHALL NOT BE MADE UNTIL NECESSARY INSPECTIONS AND TEST HAVE BEEN COMPLETED ON THE NEW WORK AND IT IS FOUND TO CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

EXISTING CONDITIONS NOTE

THIS PLAN IS INTENDED FOR USE AS A STORMWATER MODIFICATION PLAN. INFORMATION SHOWN ON THIS PLAN WAS DEVELOPED FROM AERIAL PHOTOS, SURVEY AND PUBLIC AS-BUILT DATA. NOT ALL SURFACES FEATURES OR UTILITIES MAY BE SHOWN. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION TO DETERMINE WORK SPECIFIC DETAILS.



STRUCTURAL
REGISTERED PROFESSIONAL ENGINEER
ENG/10000
82232PE
OREGON
SEP. 12, 2017
EDWARD FONG-HON LIN

EXPIRES 12/31/26

PSE
PETERSON STRUCTURAL ENGINEERS

9400 SW BARNES RD., SUITE 100
PORTLAND, OR 97225
(503) 292-1635

ROCK CREEK CLARIFIERS NO. 1-3 CONCRETE

LAUNDRER REPAIRS

CLIENT INFO:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

PROJECT SITE:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

SHEET CONTENT
COVER SHEET

JOB No.
2501-0078

DRAWN
TJC

CHECKED
EFL

DATE
06/18/26

REVISIONS

SHEET

S1 OF 6

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GENERAL STRUCTURAL NOTES

1. THESE NOTES ARE GENERAL IN NATURE AND ARE INTENDED TO SET MINIMUM STANDARDS FOR CONSTRUCTION. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH THE FINAL CONTRACT DOCUMENTS AND HAVE A COPY OF THEM ON SITE AT ALL TIMES. ELECTRONIC EQUIVALENTS ARE ACCEPTABLE WHERE PERMITTED BY THE GOVERNING JURISDICTION.
2. THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE CONSTRUCTION OF THE CWS CLARIFIER REPAIR PROJECT LOCATED IN HILLSBORO, OR. POSSESSION OF THESE DRAWINGS DOES NOT CONSTITUTE A LICENSE TO CONSTRUCT OR FABRICATE THE WHOLE, OR PARTS OF THIS PROJECT IN OTHER LOCATIONS.
3. SCALES NOTED ON DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT SCALE DRAWINGS.
4. ALL WORK SHALL BE IN STRICT CONFORMANCE WITH THE 2024 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE 2025 OREGON STRUCTURAL SPECIALTY CODE (OSSC).
5. ALL STANDARDS AND SPECIFICATIONS REFERENCED WITHIN THESE DRAWINGS REFER TO THE MOST CURRENT VERSION REFERENCED IN THE SPECIFIED BUILDING CODE OR THE MOST CURRENT VERSION AVAILABLE AT THE PUBLISH DATE OF THESE DRAWINGS.
6. FOR ANY PORTION OF THE CONSTRUCTION WHICH THE CONTRACTOR IS UNABLE TO ASCERTAIN THE REQUIRED CONSTRUCTION OR WHERE CONFLICTS EXIST, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST ADDITIONAL INFORMATION (RFIs) AND/OR CLARIFICATIONS BEFORE FABRICATION OR CONSTRUCTION.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS BEFORE CONSTRUCTION. THE STRUCTURAL EOR SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
8. IT IS THE RESPONSIBILITY OF THE OWNER OR THE OWNER'S AGENT TO OBTAIN APPROPRIATE APPROVALS AND NECESSARY PERMITS FROM CITY, COUNTY, STATE, OR FEDERAL AGENCIES, AS REQUIRED. POSSESSION OF THESE DRAWINGS DOES NOT CONSTITUTE PERMIT APPROVAL.
9. THE GENERAL CONTRACTOR, SUBCONTRACTORS, AND SUPPLIERS SHALL ENSURE COORDINATION OF CONTRACTOR-SUPPLIED/DESIGNED ELEMENTS AND DEFERRED SUBMITTALS WITH ALL DESIGN DISCIPLINES WITHIN THE CONSTRUCTION SET. COORDINATION SHALL IDENTIFY AND RECONCILE CONFLICTS BETWEEN THE CONTRACTOR-SUPPLIED/DESIGNED ELEMENTS AND THE CONSTRUCTION DRAWINGS PRIOR TO FABRICATION AND DELIVERY TO THE PROJECT SITE. THE STRUCTURAL EOR SHALL BE NOTIFIED IF CONFLICTS EXIST.
10. WHERE CONFLICTS EXIST BETWEEN STRUCTURAL DOCUMENTS AND OTHER DISCIPLINES, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE STRUCTURAL EOR, SHALL GOVERN.
11. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY AND STABILITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION, INCLUDING SHORING AND TEMPORARY SHORING AND BRACING.
12. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD FOR THE STRUCTURE. PROVIDE SHORING AND/OR BRACING WHERE LOADS EXCEED DESIGN CAPACITY OR WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.
13. CLADDING, WATERPROOFING, AND ARCHITECTURAL FEATURES ARE OUTSIDE THE STRUCTURAL DESIGN. ANY DEPICTION OF SUCH FEATURES ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE USED FOR CONSTRUCTION. REPRESENTATION OF SUCH FEATURES ON THESE DRAWINGS MAY OR MAY NOT BE ACCURATE. REFER TO ARCHITECTURAL DRAWINGS AND/OR PROJECT SPECIFICATIONS.

DESIGN LOADS

DESIGN LOADS: PER 2024 IBC AS AMENDED BY THE 2025 OSSC

1603.1.2 - ROOF LOADS:	
DEAD LOAD	4.2 PSF
LIVE LOAD	SEE SNOW LOADS
1603.1.3 - SNOW LOADS:	
GROUND SNOW LOAD, P_G	68 PSF
FLAT-ROOF SNOW LOAD, P_F	57.12 PSF
SNOW EXPOSURE FACTOR, C_E	1.0
RISK CATEGORY	IV
THERMAL FACTOR, C_T	1.2
1603.1.4 - WIND DESIGN CRITERIA:	
ULTIMATE/BASIC DESIGN WIND SPEED, V	107 MPH
RISK CATEGORY	IV
WIND EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT	0.55 (ASCE 7 SECT. 29.4.2.4)

1603.1.9 - RAIN LOADS:	
RAIN INTENSITY, i	3 IN/HR

JOB SITE CONDITIONS AND SAFETY

1. CONTRACTOR ASSUMES SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE CONTRACT STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, LAGGING, SHORING, BRACING, FORMWORK ETC. AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY DURING ALL STAGES OF CONSTRUCTION.
3. CONTRACTOR TO PERFORM GPR (OR SIMILAR INVESTIGATIVE PROCEDURE) PRIOR TO DEMO OR DRILLING TO LOCATE AND AVOID CUTTING OR DAMAGING EXISTING REINFORCING.

STAINLESS STEEL

1. STAINLESS-STEEL DESIGN, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR STRUCTURAL STAINLESS-STEEL BUILDINGS" WITH AMENDMENTS AND THE AISC "CODE OF STANDARD PRACTICE FOR STRUCTURAL STAINLESS-STEEL BUILDINGS," WITH AMENDMENTS.
2. STAINLESS-STEEL SHALL BE TYPE 316 AND CONFORM TO THE FOLLOWING MINIMUM STANDARDS:
- | SECTION | ASTM STANDARD | MINIMUM YIELD STRENGTH, F_y |
|---------|---------------|-------------------------------|
| PLATES | A240 | 30 KSI |
3. WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) STANDARD D1.6 FOR STAINLESS STEEL. ALL WELD OPERATORS SHALL BE CURRENTLY AWS CERTIFIED.
4. WELD SIZES/LENGTHS SHOWN ON THE DESIGN DRAWINGS ARE CONSIDERED EFFECTIVE WELD SIZES/LENGTH AND SHALL BE INCREASED IN ACCORDANCE WITH AWS AS REQUIRED BY GAPS OR SKEWS BETWEEN COMPONENTS. WELD LENGTHS AND WELD SIZES SHALL BE AISC MINIMUM, UNO.
5. ALL STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM F593 TYPE 316, UNO. BOLTED CONNECTIONS SHALL BE BEARING TYPE AND THREADS PERMITTED IN SHEAR PLANES EXCEPT AS NOTED OTHERWISE.
6. ALL CONNECTION HOLES SHALL BE STANDARD SIZED HOLES FOR BEARING CONNECTIONS UNO
7. WELDING BETWEEN DISSIMILAR METALS IS NOT PERMITTED. CONTACT BETWEEN DISSIMILAR METALS SHALL BE ISOLATED USING PHENOLIC OR OTHERWISE APPROVED ISOLATION HARDWARE.
8. SPlicing OF STRUCTURAL STAINLESS-STEEL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT THE APPROVAL OF THE STRUCTURAL EOR.
9. STRUCTURAL EOR SHALL BE CONTACTED FOR APPROVAL OF ANY FIELD MODIFICATIONS OF COLUMN BASE PLATES.
10. CUTS, HOLES (OPENINGS), NOTCHES, ETC. AS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SUBMITTED SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN STRUCTURAL STAINLESS STEEL MEMBERS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN PERMISSION FROM THE STRUCTURAL EOR.

REPAIR MORTAR

1. ALL REPAIR MORTAR SHALL BE SIKa MONOTOP-4500 OR APPROVED EQUAL. MORTAR PREPARATION AND PLACEMENT SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL SURFACES SHALL BE ROUGHENED TO ICRI CSP NO. 5-7, CLEANED, AND TREATED WITH SIKa ARMATEC-110 EPOCEM OR APPROVED EQUAL PRIOR TO PLACEMENT OF REPAIR MORTAR.
3. FORMWORK SHALL BE IN ACCORDANCE WITH ACI-347 "GUIDE TO FORMWORK FOR CONCRETE". FORMS SHALL BE DESIGNED BY THE CONTRACTOR. SHORING AND TEMPORARY SUPPORTS SHALL BE PROVIDED AS REQUIRED OR UNTIL THE CONCRETE HAS REACHED ITS SPECIFIED 28-DAY STRENGTH. FORMWORK, SHORING, AND TEMPORARY SUPPORTS SHALL PROVIDE FINISHED CONCRETE SURFACES AT ALL FACES: LEVEL, PLUMB, AND TRUE TO DIMENSIONS AND ELEVATIONS SHOWN IN THE DRAWINGS.
4. CHAMFER ALL EXTERIOR CORNERS TO MATCH EXISTING CONCRETE.
5. TOLERANCES FOR CONCRETE FORMWORK SHALL CONFORM TO AMERICAN CONCRETE INSTITUTE (ACI) 117, STANDARD TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS, UNLESS OTHERWISE SPECIFIED.
6. MORTAR CURING PROCEDURES SHALL BE STRICTLY ADHERED TO AS SPECIFIED IN THE MANUFACTURER'S INSTRUCTIONS.
7. PROTECTIVE COATING OF SIKAGARD-170 CR OR APPROVED EQUAL SHALL BE APPLIED TO FINISHED SURFACES OF REPAIR MORTAR.

POST-INSTALLED ANCHORS - CONCRETE

1. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
2. POST INSTALLED ANCHORS SHALL BE OF THE TYPE AND MANUFACTURER SPECIFIED ON THE DRAWINGS. REQUESTS FOR ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE STRUCTURAL EOR IN WRITING ALONG WITH EVIDENCE OF EQUAL OR GREATER CAPACITY FOR THE SPECIFIED CONNECTION.
3. CARE SHALL BE GIVEN TO AVOID CONFLICT WITH EXISTING REINFORCING AND ANCHORS WHEN DRILLING HOLES. IF INSTALLATION OF ANCHORS IS IN CONFLICT WITH EXISTING REINFORCING CONTACT THE STRUCTURAL EOR. THE REMOVAL AND RESETTING OF POST-INSTALLED ANCHORS IS PROHIBITED.
4. ALL ASPECTS OF ANCHOR INSTALLATION, SUCH AS HOLE DIAMETER, HOLE DEPTH, DRILLING AND CLEANING PROCEDURES, SPACING AND EDGE DISTANCES, INSTALLATION TORQUE, TEMPERATURE AND STORAGE REQUIREMENTS, ETC., SHALL BE PER MANUFACTURER REQUIREMENTS AS SET FORTH IN THE ICC ESR REPORT AND ANCHOR PACKAGING UNO. IF CONFLICTS EXIST BETWEEN MANUFACTURER REQUIREMENTS AND THOSE LISTED ON THESE DRAWINGS, CONTACT THE STRUCTURAL EOR.

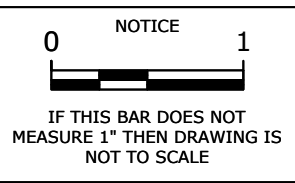
5. ANCHOR EMBEDMENT SPECIFIED ON DRAWINGS IS THE "EFFECTIVE" ANCHOR EMBEDMENT. REFERENCE THE MANUFACTURER RECOMMENDATIONS AS SET FORTH IN THE ICC ESR REPORT FOR THE "NOMINAL" EMBEDMENT.
6. CONTACT BETWEEN DISSIMILAR METALS SHALL BE ISOLATED USING PHENOLIC OR OTHERWISE APPROVED ISOLATION HARDWARE ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION PER THE FOLLOWING REQUIREMENTS, UNO.
- 6.1. ALL ANCHORS SHALL BE STAINLESS STEEL.
7. POST-INSTALLED ANCHORS SHALL NOT BE BENT AFTER BEING INSTALLED.

8. ADHESIVE ANCHORS:
- 8.1. ADHESIVE ANCHORS SHALL BE INSTALLED BY QUALIFIED PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND WITH STRICT ADHERENCE TO THE PROVISIONS WITHIN THE MANUFACTURER PRINTED INSTALLATION INSTRUCTIONS AND ICC ESR REPORT.
- 8.2. AT THE TIME OF ANCHOR INSTALLATION, IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 318 SECTION 17.2.2, ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS.
- 8.3. INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL ORIENTATION SHALL BE COMPLETED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318 SECTION 17.2.3. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE STRUCTURAL EOR FOR APPROVAL PRIOR TO COMMENCEMENT OF INSTALLATION.

SPECIAL INSPECTIONS:

1. AN INDEPENDENT TESTING LABORATORY, SELECTED AND ENGAGED BY THE OWNER, SHALL PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH CHAPTER 17 OF THE OSSC FOR THE STRUCTURAL SYSTEMS OUTLINED AND FOR THE TYPE AND FREQUENCY OUTLINED IN THE QUALITY CONTROL SECTION OF THESE GENERAL NOTES. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO SPECIAL INSPECTION AND TESTING TABLES FOR PROJECT REQUIREMENTS.
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE STRUCTURAL ENGINEER A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1(1) OF AWS D1.1.
3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION AND MATERIAL TESTING REPORTS FOR EACH INSPECTION AND/OR MATERIAL TEST TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
5. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE SPECIAL INSPECTOR TO PERFORM THE REQUIRED INSPECTIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND SPECIAL INSPECTOR A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED SPECIAL INSPECTIONS MAY BE PERFORMED.
6. INSPECTION TYPES:
- 6.1. CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.
- 6.2. PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.
- 6.3. OBSERVE: OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS.
- 6.4. PERFORM: INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.
7. SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURER'S INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.
- 7.1. INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
- 7.2. SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVALUATION REPORT.

8. SPECIAL INSPECTION REQUIREMENTS OF STRUCTURAL WELDING DO NOT APPLY TO QUALIFIED SHOP WELDS. NOTE: TO BE CONSIDERED QUALIFIED SHOP WELDS THEY MUST BE PERFORMED IN A PRE-QUALIFIED SHOP AS RECORDED BY THE JURISDICTION OF RECORD, A WRITTEN VERIFICATION OF PRE-QUALIFICATION WITH THE JURISDICTION OF RECORD IS REQUIRED PRIOR TO PERFORMING ANY STRUCTURAL WELDING IN A SHOP WITHOUT SPECIAL INSPECTION.
9. QUALITY ASSURANCE (QA) IS REQUIRED FOR STRUCTURAL STEEL ITEMS PER AISC 360 AND 341 UNLESS SPECIFICALLY NOTED OTHERWISE. QUALITY CONTROL (QC) TO BE PROVIDED BY THE FABRICATOR, ERECTOR OR OTHER RESPONSIBLE CONTRACTOR AS APPLICABLE. CONTRACTOR AND SPECIAL INSPECTOR TO DOCUMENT QC AS REQUIRED IN AISC 360 SECTION N3 AND AISC 341 SECTION J2.



STRUCTURAL
REGISTERED PROFESSIONAL
ENGINEER
82232PE
OREGON
SEP. 12, 2017
EDWARD FONG-HON LIN

EXPIRES 12/31/26

PSE

PETERSON STRUCTURAL ENGINEERS

9400 SW Barnes Rd., Suite 100
Portland, OR 97225
(503)292 - 1635

ROCK CREEK CLARIFIERS NO. 1-3 CONCRETE
LAUNDER REPAIRS

CLIENT INFO:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

PROJECT SITE:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

SHEET CONTENT
GENERAL STRUCTURAL
NOTES

JOB No. 2501-0078	
DRAWN TJC	CHECKED EFL
DATE 06/18/26	
REVISIONS	
SHEET	
S2 OF 6	

QUALITY ASSURANCE PLAN
QUALITY ASSURANCE FOR THE STRUCTURE'S SEISMIC RESISTANCE SHALL BE ENSURED BY THE REVIEW OF THE FOLLOWING SUBMITTALS, PERFORMING THE LISTED STRUCTURAL OBSERVATIONS AND IMPLEMENTATION OF THE LISTED SPECIAL INSPECTION AND MATERIAL TESTING OF THE FOLLOWING:

STRUCTURAL OBSERVATION AND SPECIAL INSPECTION REQUIREMENTS DO NOT WAIVE THE REQUIREMENTS FOR BUILDING PERMIT INSPECTIONS OR ANY OTHER INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COORDINATION OF ALL STRUCTURAL OBSERVATIONS, SPECIAL INSPECTIONS, PERMITTING INSPECTIONS, AND OTHER INSPECTIONS, AS APPLICABLE.

STRUCTURAL OBSERVATION REQUIREMENTS:

1. THE OWNER SHALL EMPLOY THE STRUCTURAL EOR OR AN ALTERNATE OREGON LICENSED PROFESSIONAL ENGINEER, APPROVED BY THE STRUCTURAL EOR, TO PERFORM STRUCTURAL OBSERVATIONS IN ACCORDANCE WITH SECTION 1704.6 OF THE INTERNATIONAL BUILDING CODE.
2. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY A REGISTERED DESIGN PROFESSIONAL FOR GENERAL CONFORMANCE TO THE APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR ANY OTHER INSPECTION CRITERIA, INCLUDING SPECIAL INSPECTION, AS REQUIRED BY THE BUILDING OFFICIAL OR AS INDICATED WITHIN THE INTERNATIONAL BUILDING CODE.
3. DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER AND THE BUILDING OFFICIAL (AND THE STRUCTURAL EOR IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION). AT THE CONCLUSION OF THE STRUCTURAL WORK INCLUDED WITHIN THE PERMIT, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL AND THE OWNER (AND THE STRUCTURAL EOR IF AN ALTERNATE ENGINEER IS USED FOR STRUCTURAL OBSERVATION) A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.
4. THE CONTRACTOR SHALL MAKE AVAILABLE ALL MEANS AND METHODS NECESSARY FOR THE STRUCTURAL OBSERVER TO PERFORM THE REQUIRED STRUCTURAL OBSERVATIONS. IN ADDITION, THE CONTRACTOR SHALL NOTIFY THE OWNER AND STRUCTURAL OBSERVER A MINIMUM OF 48 HOURS BEFORE THE TIME AT WHICH THE SPECIFIED STRUCTURAL OBSERVATIONS MAY BE PERFORMED. IN ADDITION, THE CONTRACTOR SHALL UPDATE THE STRUCTURAL OBSERVER OF THE CONSTRUCTION PROGRESS.
5. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED FOR THE FOLLOWING AREAS OF WORK:

5.1. UPON COMPLETION OF SHORING INSTALLATION

5.2. AFTER COMPROMISED CONCRETE HAS BEEN REMOVED AND pH TESTING HAS BEEN PERFORMED.

5.3. AFTER PLACEMENT OF WALL REINFORCING (IF REQUIRED).

5.4. AFTER APPLICATION OF APPROXIMATELY 50% OF THE REPAIR MORTAR HAS BEEN APPLIED

5.5. AFTER APPLICATION OF APPROXIMATELY 50% OF THE EPOXY COATING HAS BEEN APPLIED

5.6. FOLLOWING THE COMPLETION OF ALL STRUCTURAL ELEMENTS CONTAINED HEREIN.

GENERAL - SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
			CONTINUOUS	PERIODIC	
FABRICATORS	1705.11 1704.2.5				SPECIAL INSPECTION IS REQUIRED FOR STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP. SPECIAL INSPECTIONS SHALL BE PERFORMED DURING FABRICATION. PERFORMING SPECIAL INSPECTIONS IS NOT REQUIRED, WHERE FABRICATOR HAS BEEN APPROVED AS AN APPROVED FABRICATOR, PER SECTION 1704.2.5.1.
DEFERRED SUBMITTALS				X	SPECIAL INSPECTION REQUIREMENTS FOR DEFERRED SUBMITTAL ITEMS, INCLUDING REQUIREMENTS FOR DESIGNATED SEISMIC SYSTEMS IN ACCORDANCE WITH OSSC SECTION 1705.13.4 IF APPLICABLE. TO BE SPECIFIED BY THE SYSTEM ENGINEER AND INCLUDED WITH DEFERRED SUBMITAL DOCUMENTS.
SUBMITTALS TO THE BUILDING OFFICIAL	1704.5			X	CERTIFICATES OF COMPLIANCE, REPORTS OF PRE-CONSTRUCTION TESTS, OR REPORTS OF MATERIAL PROPERTIES SHALL BE SUBMITTED TO THE BUILDING OFFICIAL.
POST INSTALLED ADHESIVE ANCHORS WITH SUSTAINED TENSION LOADS INSTALLED HORIZONTALLY OR AT AN UPWARD INCLINE IN HARDENED CONCRETE		ACI 318: 17.2.5	X		

SUBMITTALS:

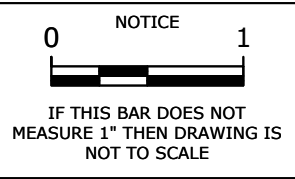
THE CONTRACTOR SHALL PROVIDE THE STRUCTURAL EOR AND THE BUILDING OFFICIAL SUBMITTALS FOR APPROVAL, PRIOR TO FABRICATION OR CONSTRUCTION, FOR THE FOLLOWING ITEMS:

1. STEEL FABRICATION SHOP DRAWINGS, MATERIAL CERTIFICATIONS & WELDING PROCEDURES
2. REPAIR MORTAR, BONDING AGENT, EPOXY COATING, CRACK REPAIR, AND REINFORCING DATA SHEETS

NOTES:

1. THE CONTRACTOR SHALL REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMITTAL. CONTRACTOR'S REVIEW SHALL CHECK FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.
2. SHOP DRAWINGS ARE REVIEWED FOR GENERAL COMPLIANCE WITH THE STRUCTURAL DRAWINGS, RESPONSIBILITY FOR CORRECTNESS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. SHOP DRAWINGS DO NOT SUPERSEDE OR REPLACE CONTRACT DRAWINGS OR PROJECT SPECIFICATIONS. CHANGES OR SUBSTITUTIONS, OR DEVIATIONS FROM CONTRACT DRAWINGS AND/OR PROJECT SPECIFICATIONS WILL NOT BE ACCEPTED VIA SHOP DRAWINGS REVIEW. ALL SUCH MODIFICATIONS SHALL BE SUBMITTED SEPARATELY FOR THE STRUCTURAL EOR'S REVIEW.

STEEL - SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 6 AND 9)		REMARKS
			CONTINUOUS / PERFORM	PERIODIC/ OBSERVE	
CONTRACTOR QUALITY CONTROL REQUIREMENTS		AISC 360 CHAPTER N	X	X	CONTRACTOR TO PROVIDE QUALITY CONTROL FOR ALL ITEMS INDICATED TO BE OBSERVED AND/OR PERFORMED IN TABLE BELOW
FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1705.2.1 2201.1 TABLE 1705.2-3	ASTMA6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N2.1		X	CERTIFIED MILL TEST REPORTS
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS		X	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD CONSUMABLES	1705.2.1.1 TABLE 1705.2-5	AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS		X	MANUFACTURER'S CERTIFIED TEST REPORTS
STRUCTURAL STEEL WELDING					
VERIFYING USE OF PROPER WPS'S	1705.2.1 AWS D1.1	AISC 360 N3.2			RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS	1705.2	AWS D1.1		X	RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2-6a	AWS D1.1 CLAUSE 6	X		
MULTIPASS FILLET WELDS			X		
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X		ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9
PLUG AND SLOT WELDS			X		
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X	
VERIFICATION OF JOINT & CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS AT EACH CONNECTION	TABLE 1705.2-7	AWS D1.1		X	
HIGH-STRENGTH BOLTING					
INSPECTION TASKS PRIOR TO BOLTING					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-1 AISC 360 M2.5	X		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS				X	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)				X	
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL				X	
CONNECTING ELEMENTS< INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS				X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				X	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				X	
INSPECTION TASKS DURING BOLTING					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2.1.2 TABLE 1705.2-2	AISC 360 TABLE N5.6-2 AISC M2.5		X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION		RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9		X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING				X	



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SHEET CONTENT
QAQC PLAN & SPECIAL
INSPECTIONS

JOB No.
2501-0078

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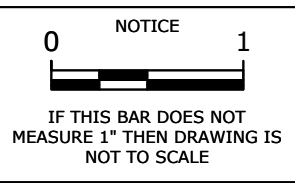
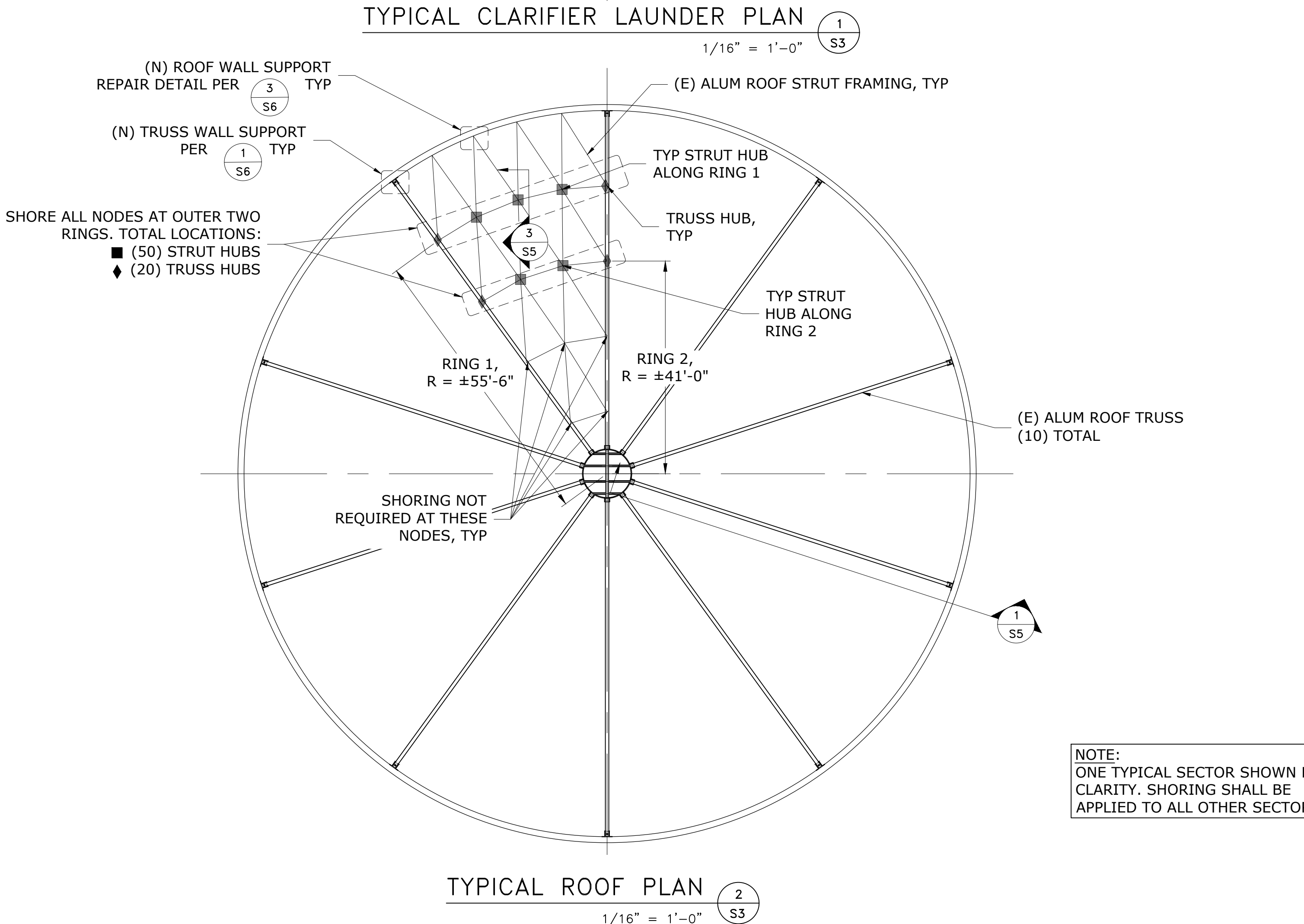
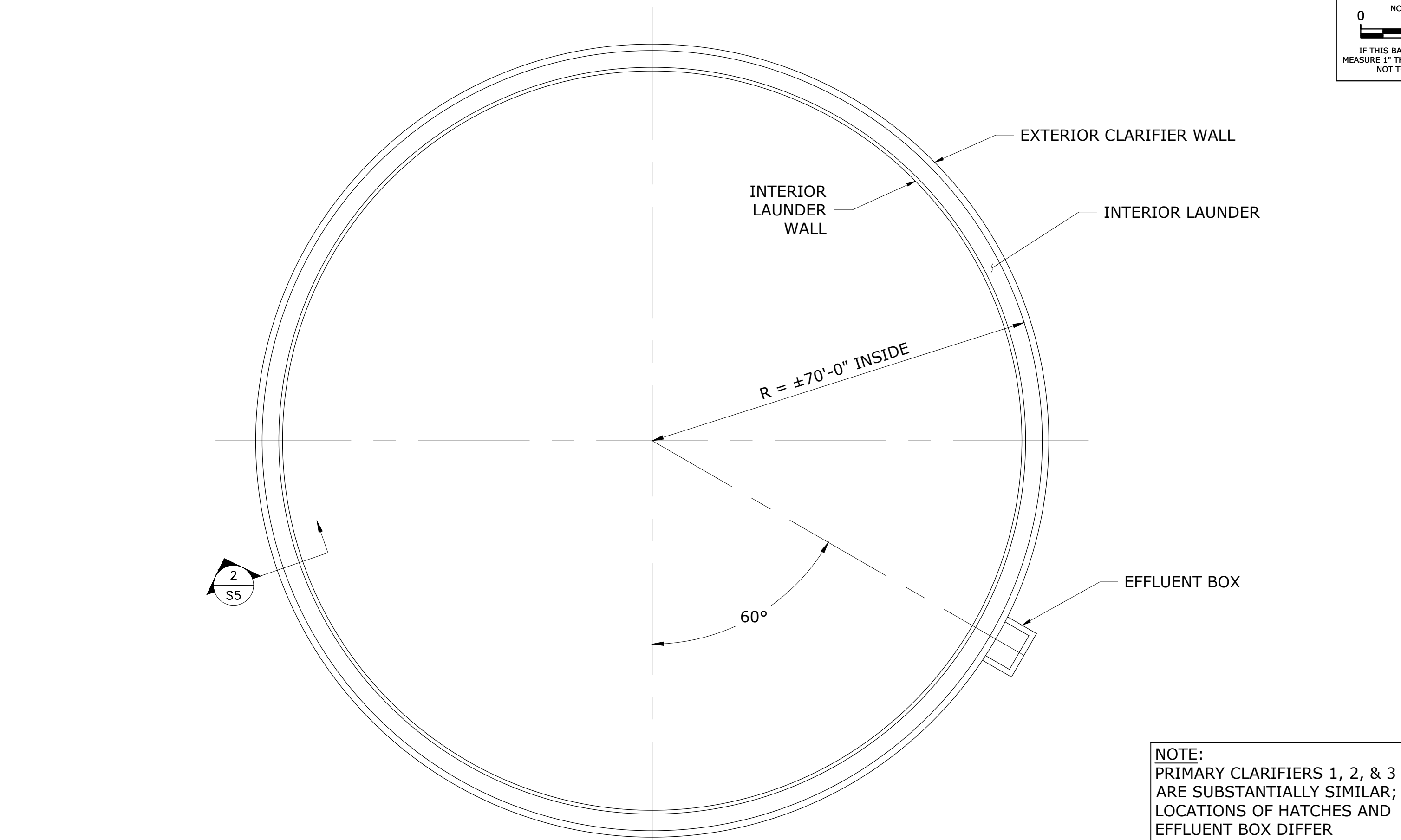
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STEEL - SPECIAL INSPECTIONS					
SYSTEM OR MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARD REFERENCE	INSPECTION (NOTES 5 AND 6)		REMARKS
			"CONTINUOUS/ PERFORM"	"PERIODIC/ OBSERVE"	
CONTRACTOR QUALITY CONTROL REQUIREMENTS		AISC 360 CHAPTER N	X	X	CONTRACTOR TO PROVIDE QUALITY CONTROL FOR ALL ITEMS INDICATED TO BE OBSERVED AND/OR PERFORMED IN TABLE BELOW
STEEL FABRICATION FABRICATION OF STRUCTURAL ELEMENTS	1704.2.5.1	AISC 360		X	REFER TO INSPECTION OF FABRICATOR REQUIREMENTS
MATERIAL VERIFICATION OF STRUCTURAL STEEL COMPONENTS	1705.2.1 2203.1 TABLE 1705.2	*ASTM A6 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS AISC 360 A3.1 AISC 360 N3.2"		X	CERTIFIED MILL TEST REPORTS
MATERIAL VERIFICATION OF ANCHOR BOLTS AND THREADED RODS		*AISC 360 A3.4 AISC 360 N3.2 ASTM STANDARDS SPECIFIED IN CONSTRUCTION DOCUMENTS *"		X	MANUFACTURER'S CERTIFIED TEST REPORTS
MATERIAL VERIFICATION OF WELD FILLER METALS	1705.2.1.1 TABLE 1705.2-5	*AISC 360 A3.5 AISC 360 N3.2 APPLICABLE AWS A5 DOCUMENTS"		X	MANUFACTURER'S CERTIFIED TEST REPORTS
STRUCTURAL STEEL WELDING					
VERIFYING USE OF PROPER WPS'S	1705.2.1 AWS D1.1	AISC 360 N3.2			RETAIN A RECORD OF WELDING PROCEDURE SPECIFICATIONS
VERIFYING WELDER QUALIFICATIONS		AWS D1.1		X	RETAIN A RECORD OF QUALIFICATION CARDS
COMPLETE AND PARTIAL JOINT PENETRATION GROOVE WELDS	TABLE 1705.2-6	AWS D1.1 CLAUSE 6	X		
MULTIPASS FILLET WELDS			X		
SINGLE PASS FILLET WELDS GREATER THAN 5/16"			X		ALL WELDS VISUALLY INSPECTED PER AWS D1.16.9
PLUG AND SLOT WELDS			X		
SINGLE PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"				X	
VERIFICATION OF JOINT & CONNECTION DETAILS INCLUDING MEMBER AND COMPONENT LOCATIONS, BRACING, AND STIFFENERS	TABLE 1705.2-7	AWS D1.1		X	
INSPECTION TASKS PRIOR TO BOLTING					
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	1705.2.1.2 TABLE 1705.2-2	*AISC 360 TABLE N5.6-1 AISC 360 M2.5"	X		
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS				X	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH, IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)				X	
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL				X	
CONNECTING ELEMENTS- INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS				X	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				X	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS				X	
INSPECTION TASKS DURING BOLTING					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED	1705.2.1.2 TABLE 1705.2-2	*AISC 360 TABLE N5.6-2 AISC M2.5 RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS SECTION 9"		X	
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION				X	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING				X	
INSPECTION TASKS AFTER BOLTING					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2.1.2 TABLE 1705.2-2	*AISC 360 TABLE N5.6-3"	X		



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SHEET CONTENT
SPECIAL INSPECTIONS
& CLARIFIER LAUNDER
AND ROOF PLANS

JOB No.
2501-0078

DRAWN
TJC

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EFL

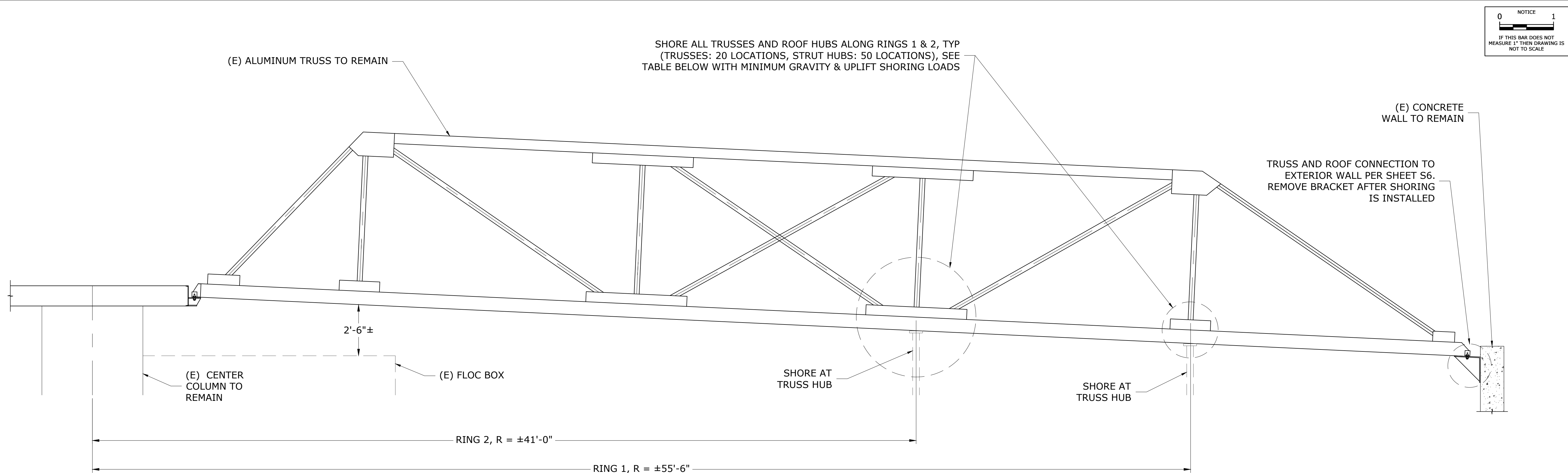
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SHEET
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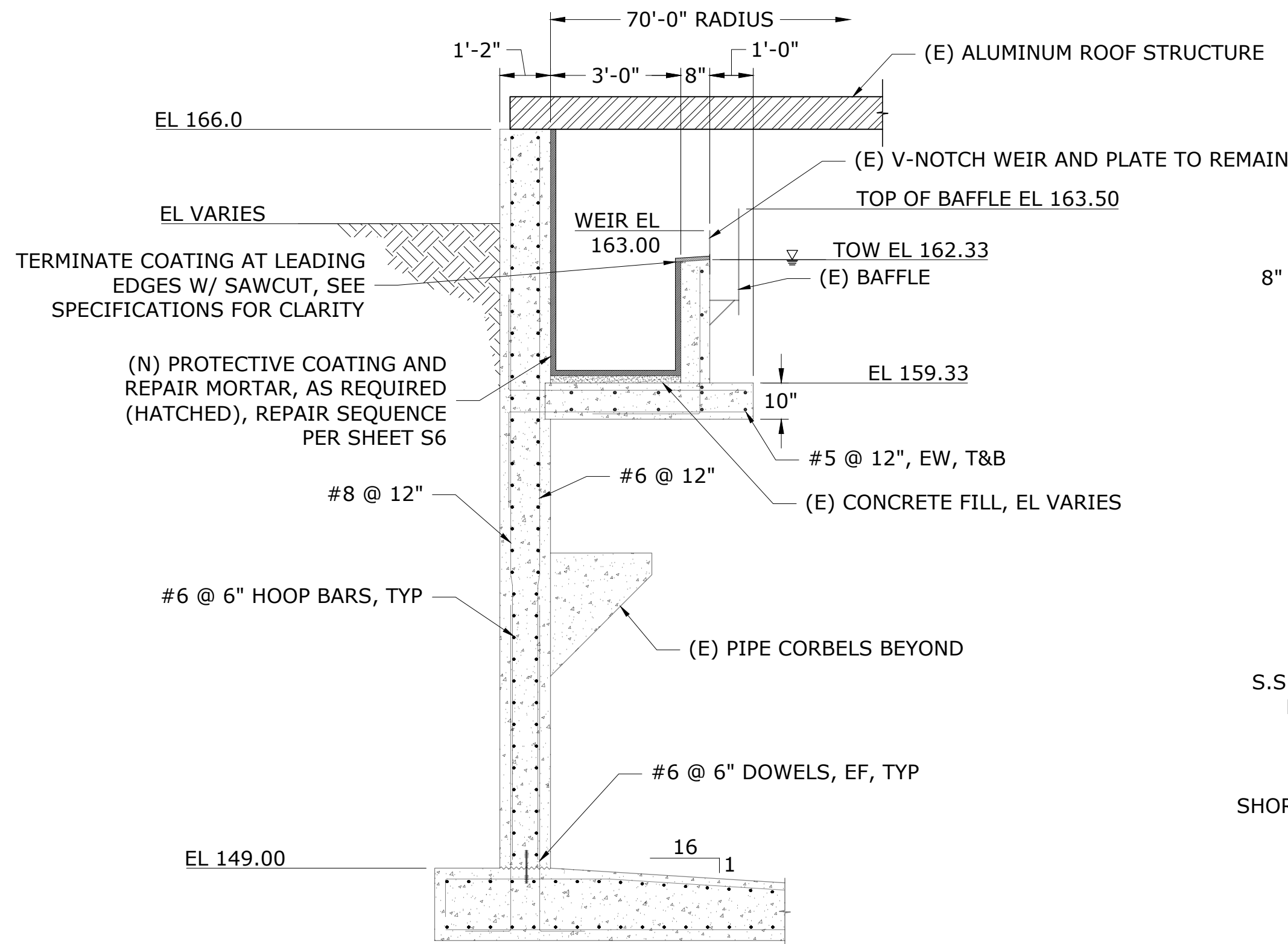
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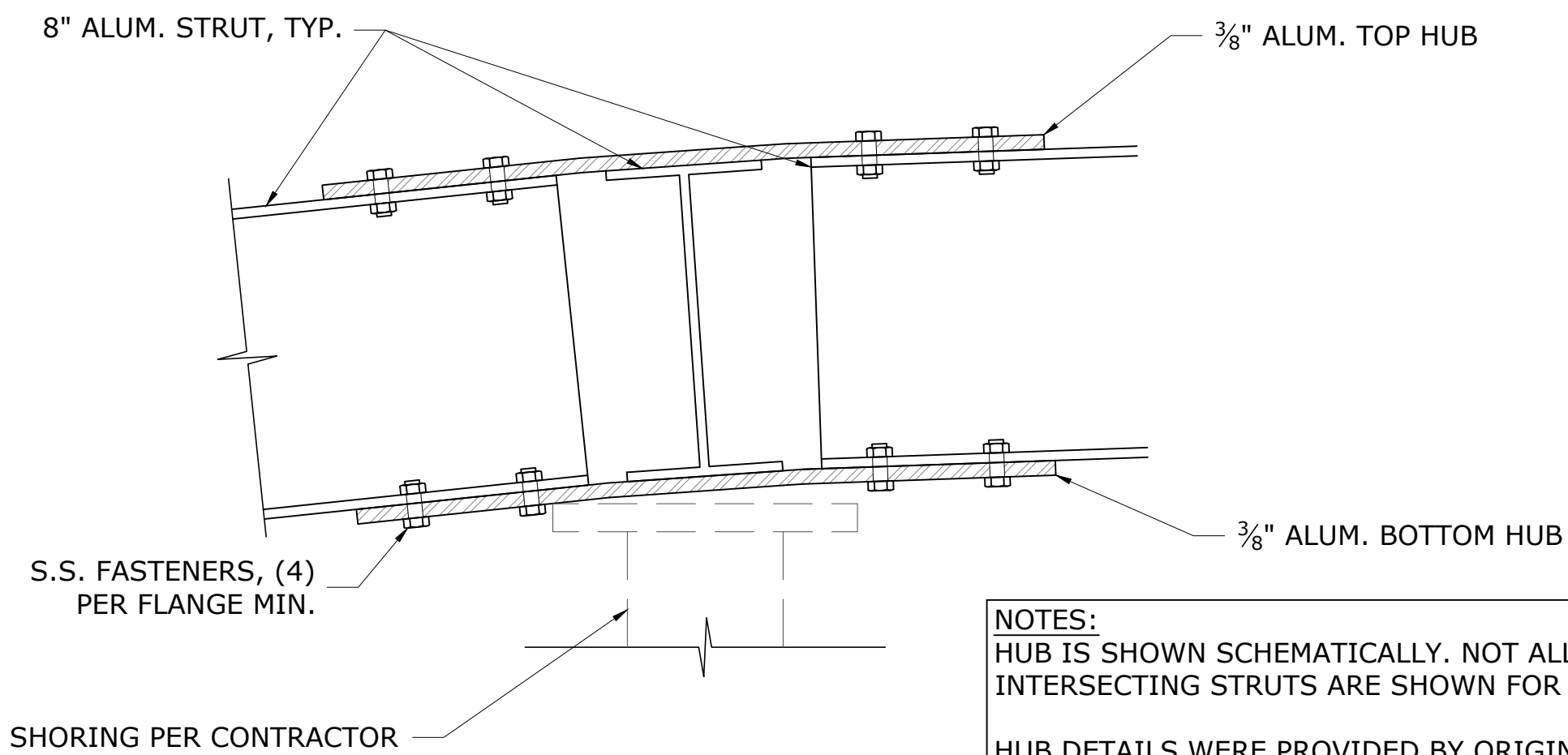
NOTE: STRUT SUPPORTS NOT SHOWN FOR CLARITY. SEE DETAIL 3 THIS SHEET.

TRUSS ELEVATION SHORING 1 S5
3/8" = 1'-0"

SHORING LOADS			
LOAD CASE	TRUSS SUPPORT, MINIMUM SHORING CAPACITY - SERVICE LEVEL (LBS)	STRUT SUPPORT RING 1, MINIMUM SHORING CAPACITY - SERVICE LEVEL (LBS)	STRUT SUPPORT RING 2, MINIMUM SHORING CAPACITY - SERVICE LEVEL (LBS)
GRAVITY	1500	1200	600
UPLIFT	6300	2500	5200

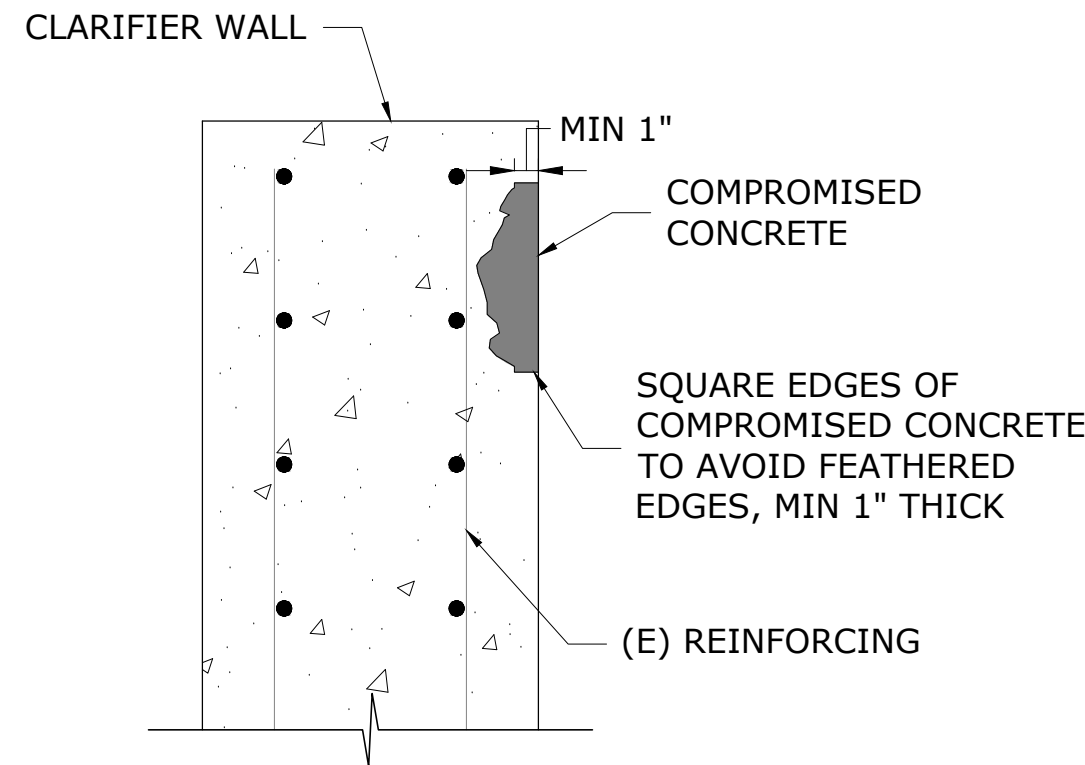


WALL AND LAUNDER ELEVATION 2 S5
3/8" = 1'-0"

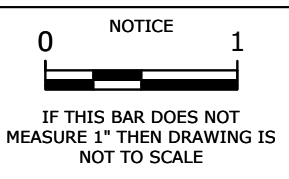


NOTES:
HUB IS SHOWN SCHEMATICALLY. NOT ALL INTERSECTING STRUTS ARE SHOWN FOR CLARITY.
HUB DETAILS WERE PROVIDED BY ORIGINAL ROOF MANUFACTURER (CONSERVATEK).

(E) ROOF STRUT HUB SECTION 3 S5
N.T.S.



REPAIR MORTAR DETAIL 4 S5
1-1/2" = 1'-0"



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SHEET CONTENT
SHORING ELEVATION, ROOF WALL ELEVATION, ROOF HUB SECTION & STRUCTURAL DETAILS

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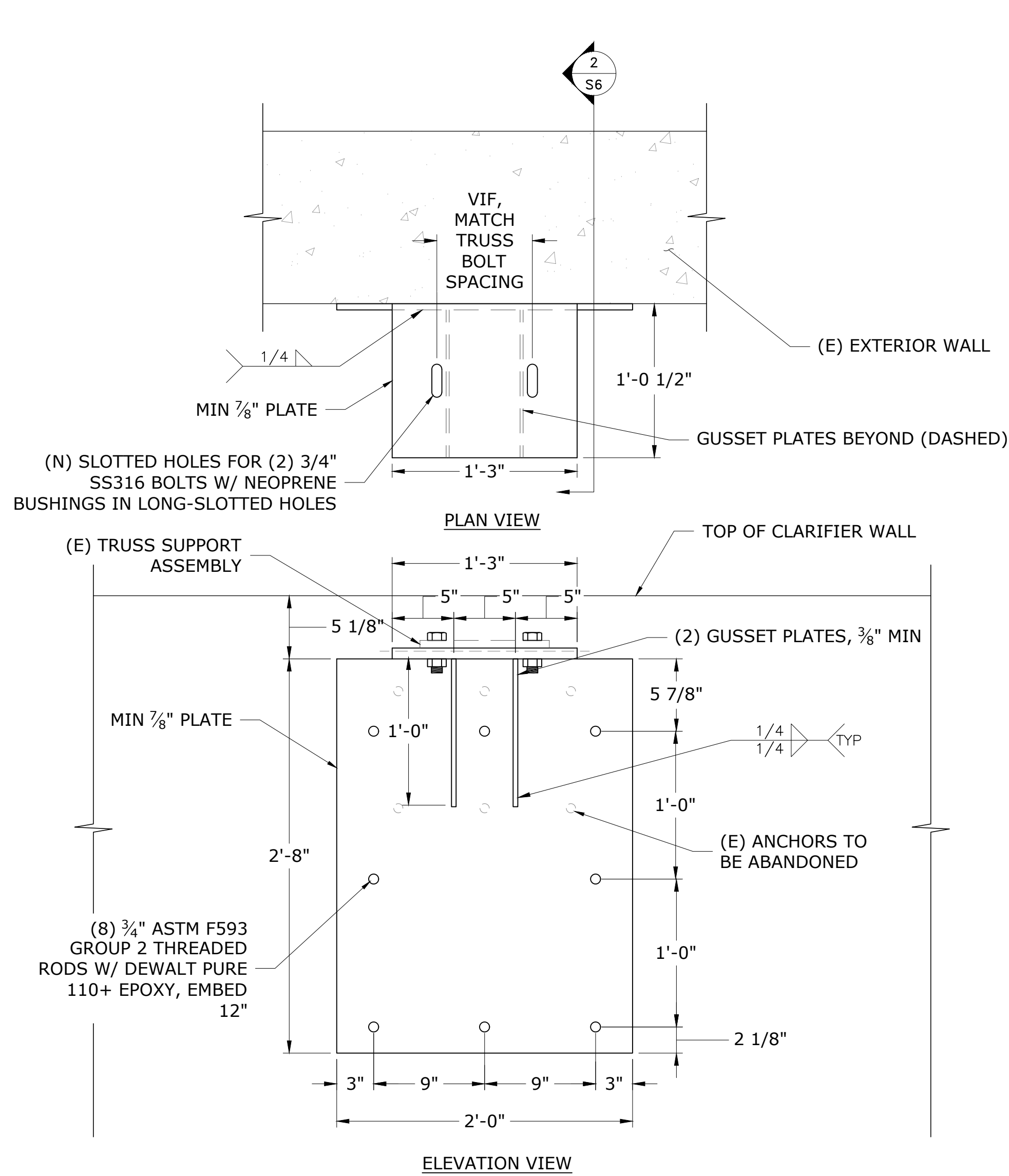
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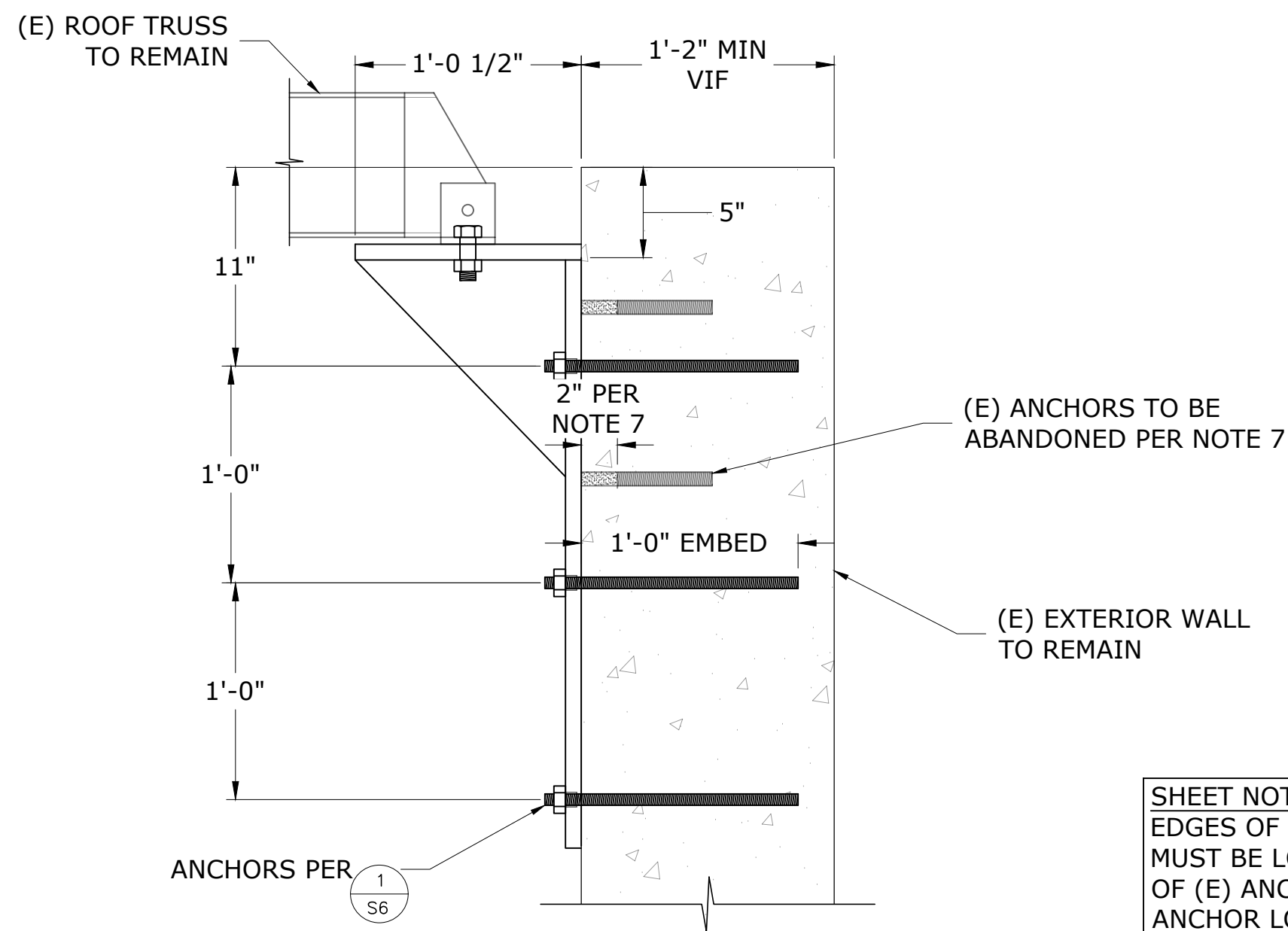
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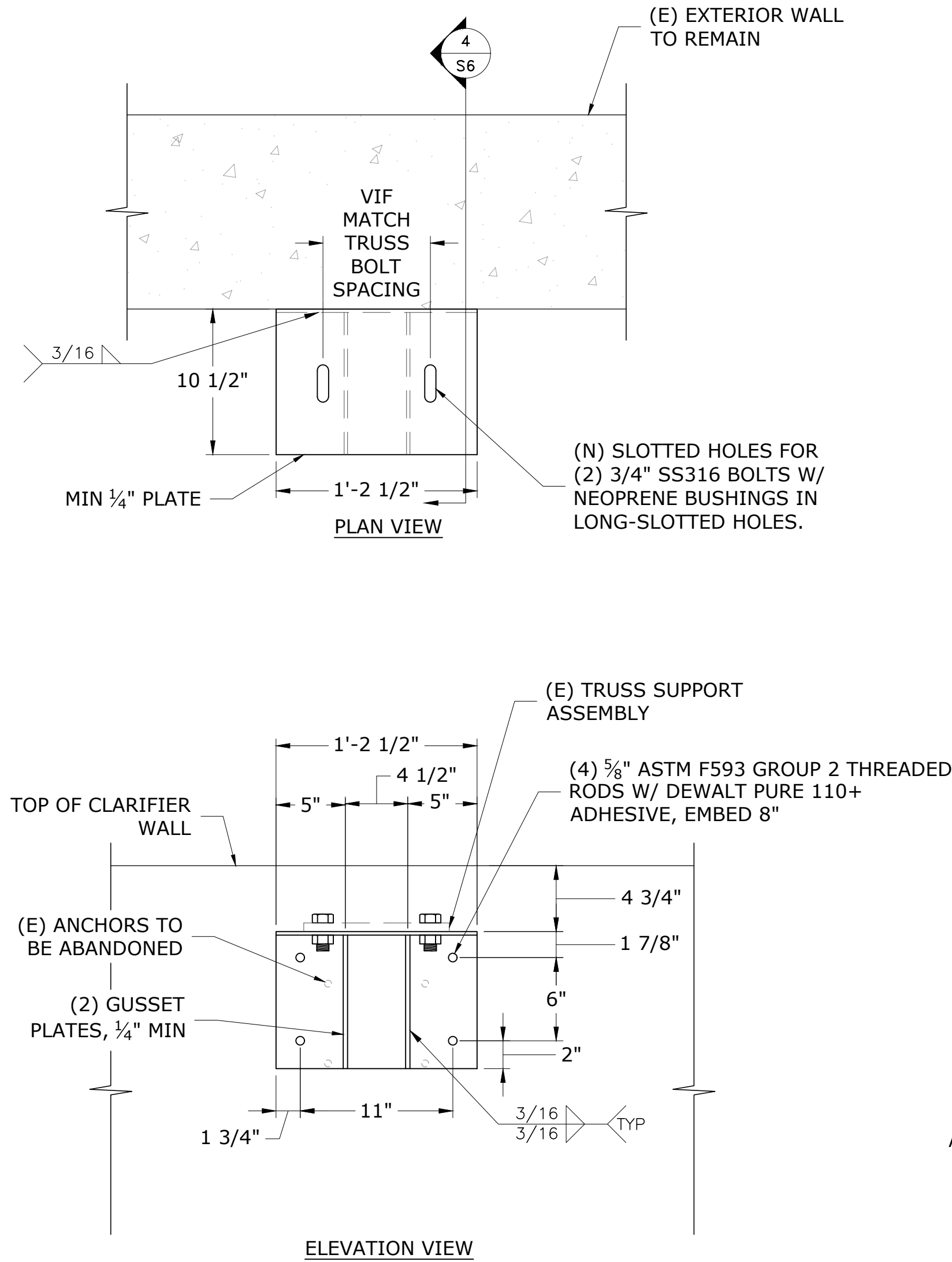


TRUSS WALL SUPPORT DETAIL 1 S6
1 1/2" = 1'-0"

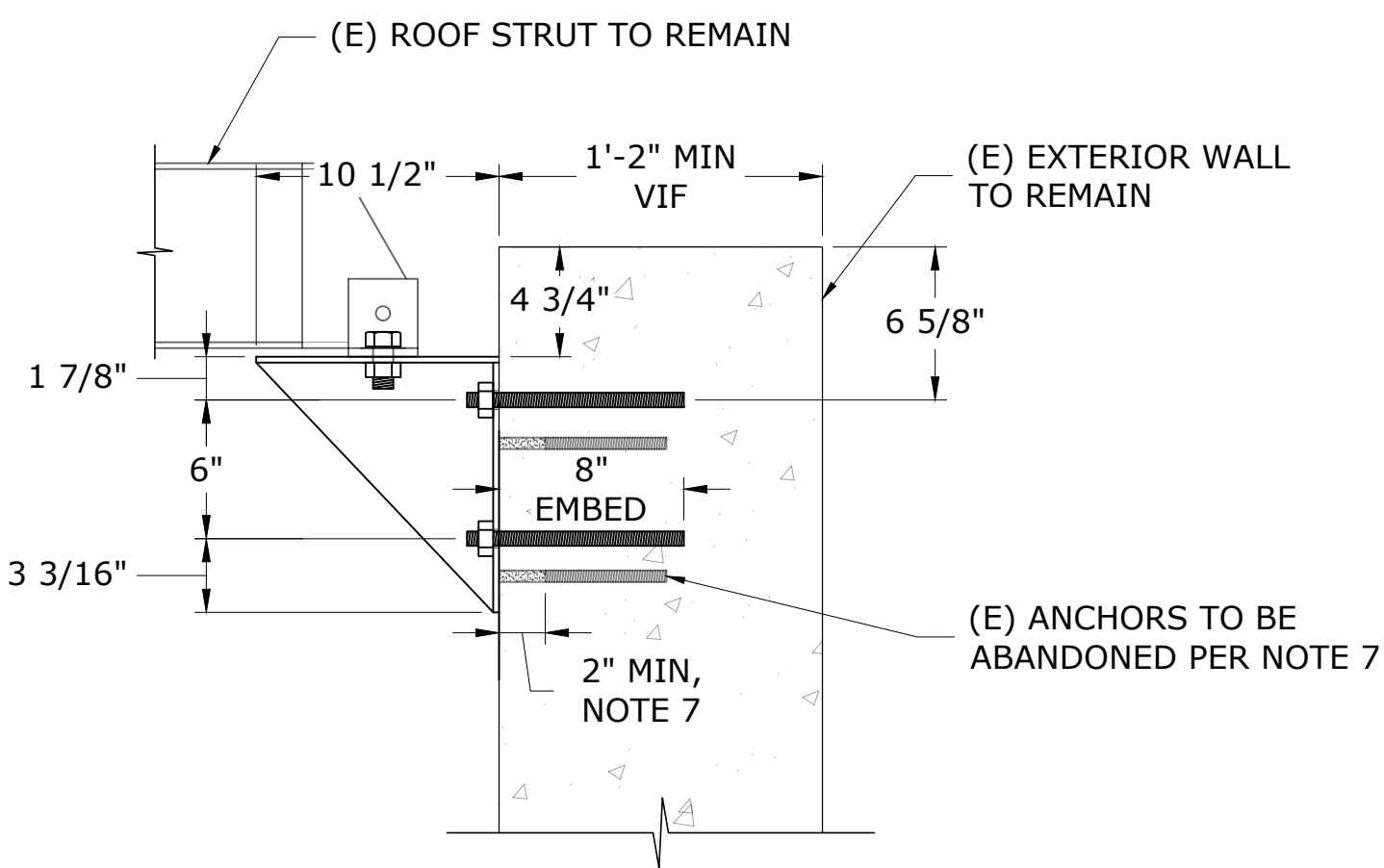


TRUSS WALL SUPPORT SECTION 2 S6
1 1/2" = 1'-0"

SHEET NOTE:
EDGES OF (N) ANCHOR BOLT HOLES MUST BE LOCATED 2" MIN FROM EDGES OF (E) ANCHOR BOLTS. VIF THAT (N) ANCHOR LOCATIONS HAVE ADEQUATE CLEARANCE FROM (E) BOLTS. NOTIFY EOR IF CONFLICTS EXIST.



ROOF WALL SUPPORT DETAIL 3 S6
1 1/2" = 1'-0"



ROOF WALL SUPPORT SECTION 4 S6
1 1/2" = 1'-0"

CORRODED AND EXPOSED REBAR AND COMPROMISED CONCRETE, NOTES #4, 6-16

CONCRETE REPAIR NOTES:
ALL CONCRETE AT THE INTERIOR LAUNDER LEVEL SHALL BE REPAIRED PER THE SEQUENCE BELOW. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REPAIR GUIDANCE.

REPAIR SEQUENCE

1. INSTALL SHORING TO SUPPORT ROOF SYSTEM PER SHEETS S4 & S5.
2. REMOVE EXISTING SUPPORT BRACKETS AND ANCHORAGE.
3. REMOVE LOOSE, COMPROMISED CONCRETE DOWN TO COMPETENT, WELL-ADHERED CONCRETE.
4. PERFORM pH TESTING OF (E) CLARIFIER WALL. PERFORM TESTING AT EACH SUPPORT LOCATION (APPROXIMATELY (50) TESTS), AROUND PERIMETER OF WALL. SEE BELOW FOR REPAIR CRITERIA
 - 4.1. pH ≥ 10: CONCRETE IS COMPETENT AND FURTHER REMOVAL IS NOT REQUIRED. PROCEED TO STEP 6.
 - 4.2. pH < 10: CONCRETE IS COMPROMISED AND REPAIR OF CONCRETE IS REQUIRED. REMOVE UP TO 3/4" OF ADDITIONAL CONCRETE MATERIAL AND RE-TEST CONCRETE FOR pH LEVEL. REPEAT PROCEDURE UNTIL pH ≥ 10. NOTIFY EOR IF REMOVAL DEPTH EXCEEDS 4".
5. PERFORM GPR TESTING AT TRUSS & ROOF SUPPORT LOCATIONS OF CLARIFIER WALL AT LAUNDER LEVEL TO IDENTIFY APPROXIMATE (E) REINFORCING LOCATIONS AND ENSURE (N) ANCHORAGE DOES NOT CONFLICT WITH (E) REINFORCING.
6. MECHANICALLY REMOVE CORROSION FROM EXPOSED METAL SURFACES DOWN TO COMPETENT MATERIAL.
7. WHERE CONCRETE SURROUNDING SUPPORT BRACKET ANCHORS IS COMPROMISED, REMOVE OR CUT (E) ANCHORS MIN 2" BEHIND NEW WALL SURFACE. PROVIDE NEW SUPPORT BRACKETS PER DETAILS ON THIS SHEET.
8. WHERE REINFORCEMENT SHOWS MORE THAN 20% SECTION LOSS (BY AREA), REMOVE CONCRETE AT ENDS OF EXPOSED BARS MIN 6" BEYOND COMPROMISED LENGTH. NOTIFY STRUCTURAL EOR IF SECTION LOSS IS GREATER THAN 20%.
9. PLACE NEW #4 BARS NEXT TO COMPROMISED BARS FOR FULL EXPOSED LENGTH. ENSURE DEPTH OF PLACEMENT ALLOWS FOR MIN 2" COVER.
10. ROUGHEN EXPOSED CONCRETE PER MANUFACTURER'S INSTRUCTIONS.
11. CLEAN AND PREPARE THE AREA PER SIKa GUIDELINES.
12. APPLY SIKa ARMATEC-110 EPOCEM TO EXPOSED CONCRETE AND STEEL REBAR. REFER TO MANUFACTURER GUIDELINES FOR TIMING TO APPLY FRESH CONCRETE OR MORTAR AFTER APPLICATION OF BONDING AGENT TO ENSURE PROPER BONDING.
13. FORM REPAIR AREA AND FILL WITH SIKa MONOTOP-4500 GEOHYBRID REPAIR MORTAR PER MANUFACTURER GUIDELINES. SQUARE EDGES TO PREVENT FEATHEREDGES, SEE DETAIL 4/S5 FOR CLARITY.
14. CURE PER MANUFACTURER GUIDELINES.
15. AFTER CURING, PREPARE WALL SURFACE PER MANUFACTURER GUIDELINES AND ROUGHEN TO ICRI CSP 4.
16. APPLY SIKAGARD-170 CR PROTECTIVE COATING TO GEOHYBRID REPAIR MORTAR PER MFR GUIDELINES.
17. INSTALL NEW ROOF SUPPORT BRACKETS PER DETAILS ON THIS SHEET OR REINSTALL EXISTING SUPPORTS WITH NEW NUTS.

(E) SUPPORT BRACKETS AND ANCHORAGE, NOTE #3

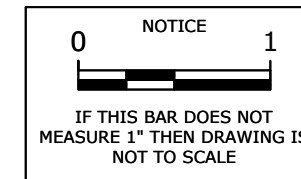
COMPROMISED CONCRETE, NOTES #4, 6-7, 10-17



COMPROMISED CONCRETE BEHIND (E) SUPPORT BRACKET



EXPOSED AND CORRODED REBAR & COMPROMISED CONCRETE



NOTICE
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

STRUCTURAL ENGINEER
REGISTERED PROFESSIONAL
ENGINEER
82232PE
OREGON
SEP. 12, 2017
EDWARD FONG-HON LIN

EXPIRES 12/31/26

PSE
PETERSON STRUCTURAL ENGINEERS

9400 SW Barnes Rd., Suite 100
Portland, OR 97225
(503)292-1635

ROCK CREEK CLARIFIERS NO. 1-3 CONCRETE LAUNDER REPAIRS

CLIENT INFO:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

PROJECT SITE:
CLEAN WATER SERVICES
3235 SE RIVER ROAD
HILLSBORO, OR 97123

SHEET CONTENT
TRUSS AND ROOF WALL SUPPORT DETAILS & CONCRETE REPAIR NOTES

JOB No.
2501-0078

DRAWN TJC **CHECKED** EFL

DATE 06/18/26

REVISIONS

SHEET

S6 OF 6