

00STRUCTURAL NOTES

- ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF MUENGINEERS, INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF MUENGINEERS, INC.
- 010000-GENERAL:**
- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH CIVIL, ELECTRICAL, LANDSCAPE, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
- DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.
- DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION.
- NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS OTHERWISE NOTED. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY BY SUBMITTING SHOP DRAWINGS FOR REVIEW.
- AT ALL TIMES THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONDITIONS OF THE JOBSITE INCLUDING SAFETY OF PERSONS AND PROPERTY. MUENGINEERS' PRESENCE OR REVIEW OF WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTORS' MEANS OR METHODS OF CONSTRUCTION.
- SHORING, BRACING AND PROTECTION OF EXISTING AND ADJACENT STRUCTURES DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. PROTECT AND MAINTAIN THE INTEGRITY OF ADJACENT STREETS, BUILDINGS AND ALL OTHER STRUCTURES.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE STRUCTURE IS COMPLETE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE ENGINEER OF RECORD IS NOT RESPONSIBLE FOR ANY MEANS AND METHODS OF CONSTRUCTION OR FOR ANY RELATED SAFETY PRECAUTIONS OR PROGRAMS.
- 010001-DESIGN LOADS:**
- THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE AND APPLICABLE REFERENCE STANDARDS.
- THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:
- DOCK:**
- LIVE LOAD 100 psf
- DEAD LOAD 25 psf
- WIND:**
- ASCE 7-10
- PALM BEACH COUNTY: RISK CATEGORY II
- ULTIMATE DESIGN WIND SPEED $V_{ult}=170$ MPH (3-SECOND GUST)
- NOMINAL DESIGN WIND SPEED $V_{as}=132$ MPH (3-SECOND GUST)
- EXPOSURE D
- 010002-SPECIAL INSPECTIONS:**
- SPECIAL INSPECTION OF THE CONSTRUCTION IS REQUIRED BY THE STATE OF FLORIDA IN ACCORDANCE WITH CHAPTER 553 OF THE FLORIDA STATUTES.
- CONSTRUCTION SHALL BE INSPECTED IN ACCORDANCE WITH THE SPECIAL INSPECTION PLAN.
- 010003-REPORTS OF TESTING AND INSPECTION:**
- TESTING REPORTS FOR STRUCTURAL ITEMS AS REQUIRED WITHIN THESE DOCUMENTS AND/OR WITHIN THE SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD IN A TIMELY MANNER IN ELECTRONIC FORMAT.
- REPORTS OF INSPECTION SHALL BE SUBMITTED TO ENGINEER OF RECORD ON A WEEKLY BASIS AND REPORTS CONTAINING INFORMATION ON NONCONFORMING INSTALLATIONS SHALL BE COPIED TO THE ENGINEER OF RECORD IMMEDIATELY.
- 010004-SHOP DRAWING REVIEW:**
- SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC PDF FORMAT ONLY.
- SHOP DRAWINGS SHALL BE SUBMITTED VIA E-MAIL TO ADMIN@MUENGINEERS.COM
- PRINTED PAPER COPIES WILL NOT BE REVIEWED AND RETURNED WITHOUT MUENGINEERS' REVIEW.
- SHOP DRAWING SUBMITTALS ARE REQUIRED FOR ALL FRAMING SHOWN ON THESE DRAWINGS INCLUDING, BUT NOT LIMITED TO: CONCRETE MIXES, CONCRETE AND MASONRY REINFORCING, STRUCTURAL STEEL AND CONNECTIONS, STEEL DECK, LIGHT GAUGE FRAMING, STRUCTURAL ALUMINUM AND FABRICATED METAL RAILINGS.
- ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE, COPYRIGHTED PROPERTY OF MUENGINEERS, INC. ELECTRONIC VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT THE EXPRESS, WRITTEN PERMISSION OF MUENGINEERS, INC. USERS WILL SIGN A RELEASE.
- SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, CONSTRUCTION METHODS, DIMENSIONING, OTHER TRADE REQUIREMENTS ETC. PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER.
- DRAWINGS WITHOUT CONTRACTOR'S APPROVAL STAMP AND WHICH HAVE NOT BEEN REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT MUENGINEERS' REVIEW.
- MUENGINEERS RESERVES A TWO-WEEK SHOP DRAWING REVIEW TIME (FROM THE DATE OF RECEIPT).
- IN CASES OF A CONFLICT, INFORMATION PRESENTED ON STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THAT WITHIN SHOP DRAWINGS, UNLESS SPECIFICALLY NOTED BY MUENGINEERS IN WRITING.
- THROUGH THE PROCESS OF A CURSORY REVIEW, MUENGINEERS ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ERRORS OR OMISSIONS, ANY ERRORS OR OMISSIONS IRRESPECTIVE OF MUENGINEERS' COMMENTS OR DURATION OF THE REVIEW SHALL BE THE RESPONSIBILITY OF AND MUST BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE EVEN IF SUCH WORK WAS DONE IN ACCORDANCE WITH THE SHOP DRAWINGS
- CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED. THE PURPOSE OF THE RE-SUBMITTALS SHALL BE CLEARLY NOTED ON THE LETTER OF TRANSMITTAL. REVIEW WILL BE LIMITED TO THE FLAGGED AND NOTED ITEMS CAUSING THE RE-SUBMITTAL.
- 012300-CONTRACTOR PROPOSED CHANGES AND SUBSTITUTIONS:**
- PROPOSED CHANGES OR SUBSTITUTIONS TO STRUCTURAL DETAILS OR PLANS SHALL BE SUBMITTED TO MUENGINEERS FOR REVIEW AND APPROVAL.
- SUBMITTALS SHALL CONTAIN FULL DOCUMENTATION OF CHANGES OR SUBSTITUTIONS WITH SUPPORTING, SEALED CALCULATIONS (WHERE APPLICABLE).
- THE REVIEW OF CHANGES AND SUBSTITUTIONS, RE-ANALYSIS AND/OR RE-DRAFTING TO INCORPORATE CHANGES OR SUBSTITUTIONS INTO CONTRACT DOCUMENTS ARE ADDITIONAL SERVICES FOR THE EOR.
- CONSTRUCTION COST REVISIONS ARE BETWEEN THE CONTRACTOR AND OWNER AND ARE NOT REVIEWED BY MUENGINEERS.
- 310000-FOUNDATIONS:**
- PROVIDE DOWELS IN FOUNDATIONS FOR ALL WALLS, COLUMNS, AND SHEAR WALLS OF SAME NUMBER, SIZE AND LAYOUT AS THE VERTICAL REINFORCEMENT ABOVE, U.N.O.
- ALL SITE PREPARATION, EXCAVATION WORK AND BACK FILL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND THE SUBSURFACE INVESTIGATION.
- ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.
- SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES.
- REPORT NO.: 14436.44
- PREPARED BY: NUTTING ENGINEERS
- TITLED: REPORT OF GEOTECHNICAL EXPLORATION
- DATED: AUGUST 14, 2018
- THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS
- SOILS SUPPORTING FOUNDATIONS SHALL BE INSPECTED AND APPROVED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO FOUNDATION REBAR INSTALLATION AND PLACING OF CONCRETE.
- THE GEOTECHNICAL ENGINEER SHALL ISSUE AN APPROVAL IN WRITING INDICATING THAT THE SOIL HAS BEEN PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND IS ADEQUATE TO SAFELY SUSTAIN 2000 PSF AND HAS A MINIMUM SUBGRADE MODULUS OF 150 POUNDS PER CUBIC INCH.

316214-PCAST CONCRETE PILES:

- TO BE REINFORCED CONCRETE POURED UNDER THE CONTROL OF AN APPROVED TESTING LABORATORY ACHIEVING A STRENGTH OF 3,000 psi AT DRIVING.
- PCAST PILE DESIGN BY SPECIALTY ENGINEER. PLEASE REFER TO SPECIALTY ENGINEER DRAWINGS AND CALCULATIONS AND REFER TO DETAIL ON SHEET S-3 FOR MINIMUM DIMENSIONS AND REINFORCING.
- 12"x12" RC PRECAST PILES TO BE DRIVEN OR JETTED AND DRIVEN TO A CARRYING CAPACITY OF 10 TONS.
- PILE INSTALLATION FOR ALL PILES SHOULD BE UNDER THE FULL TIME OBSERVATION OF A REPRESENTATIVE OF NUTTING ENGINEERS, AS STATED IN THE GEOTECHNICAL REPORT.

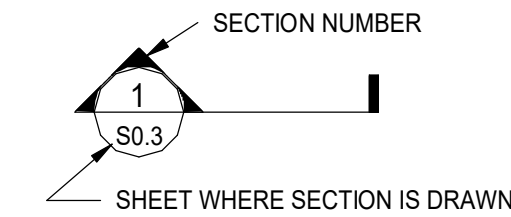
030001-CONCRETE

- CONCRETE FORMWORK AND SHORING INCLUDING BUT NOT LIMITED TO CONCRETE SLABS AND BEAMS:
- DESIGN, ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND 301.
- UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, FORMS SHALL NOT BE REMOVED PRIOR TO STRUCTURAL CONCRETE REACHING A MINIMUM OF TWO THIRDS (COLUMNS) OR THREE-QUARTERS (BEAMS AND SLABS) OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
- DELEGATED ENGINEER SHALL BE REQUIRED TO PROVIDE SIGNED AND SEALED WRITTEN REPORTS PRIOR TO ALL CONCRETE POURS VERIFYING THAT THE WORK WAS OBSERVED TO BE IN COMPLIANCE WITH THE DRAWINGS.
- REINFORCING STEEL:
- SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS.
- SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.
- WELDED WIRE FABRIC:
- TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP JOINTS SHALL BE PLUS TWO INCHES. USE OF FLAT MANUFACTURED SHEETS IS RECOMMENDED.
- CONCRETE
- SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE MIX:
- 6000 psi FOR OTHER STRUCTURAL CONCRETES
- WATER/CEMENT RATIO FOR CONCRETE OF EXTERIOR COLUMNS, BEAMS AND SLABS SHALL NOT EXCEED 0.40 BY WEIGHT.
- CONCRETE MIXES FOR ALL EXPOSED CONCRETE COMPONENTS SHALL HAVE BARRIER ONE POROSITY INHIBITING ADMIXTURE OR A BY THE ENGINEER OF RECORD APPROVED ALTERNATE ADMIXTURE INCLUDED IN THE MIX DESIGN.
- CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.
- SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE.
- MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION.
- MIX SHALL MEET THE REQUIREMENTS OF ASTM C23 FOR COARSE AGGREGATE.
- CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC.
- CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED.
- THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2) HOURS.
- IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED.
- IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE.
- CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE.
- CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.
- CORROSION RESISTANT REINFORCING STEEL
- REINFORCING BARS AT ALL AREAS SHALL BE MPMX ACCORDING TO ASTM A1035.
- CONCRETE TESTING:
- AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:
- ASTM C143: "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE 5 INCHES.
- ASTM C39: "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:
- 1 AT 3 DAYS
- 1 AT 7 DAYS
- 2 AT 28 DAYS
- ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(S) MAY BE DISCARDED.
- POST-INSTALLED ANCHORS:
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS.
- CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR AND POST TENSIONING STRANDS WHEN DRILLING HOLES. HOLES SHALL BE DRILLED AND CLEANED PER THE MANUFACTURER'S INSTRUCTIONS.
- UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
- ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAN MINIMUM EDGE DISTANCE AND/OR SPACINGS INDICATED IN THE MANUFACTURER'S LITERATURE.
- SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.
- ACCEPTABLE PRODUCTS ARE:
- EXPANSION ANCHORS FOR NON-CRACKED CONCRETE ONLY:
- WEDGE-ALL (WA), BY SIMPSON STRONG-TIE
- KWIK BOLT 3, BY HILTI
- CRACKED CONCRETE MECHANICAL ANCHORS:
- STRONG-BOLT (STB), BY SIMPSON STRONG-TIE
- KWIK BOLT (TZ), BY HILTI
- SCREW ANCHORS:
- TITEN HD (THD), BY SIMPSON STRONG-TIE
- HUS-H, BY HILTI
- ADHESIVE ANCHORS FOR ANCHORING INTO SOLID BASE MATERIAL
- ACRYLIC-TIE (AT)
- SET EPOXY-TIE (SET) WITH RETROFIT BOLTS (RFB),
- BY SIMPSON STRONG-TIE
- HIT RE 500, BY HILTI
- ADHESIVE ANCHORS FOR ANCHORING INTO HOLLOW BASE MATERIAL
- CONTACT ENGINEER OF RECORD
- 051202-STRUCTURAL ALUMINUM:**
- THE ALUMINUM STRUCTURES SHOWN ON THE DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH SPECIFICATIONS FOR ALUMINUM STRUCTURES PUBLISHED BY THE ALUMINUM ASSOCIATION.
- ALL ALUMINUM EXTRUSIONS SHALL BE OF 6061-T6 OR 6066-T6 U.N.O. IN DRAWINGS.
- ALL ALUMINUM PLATES SHALL BE 5056-H116 U.N.O. IN DRAWINGS
- THERE SHALL BE NO WELDED CONNECTIONS UNLESS ALLOWED AND SHOWN ON THE DRAWINGS.
- ALUMINUM IN CONTACT WITH CEMENT GROUT, CONCRETE OR DISSIMILAR MATERIALS SHALL HAVE A PROTECTIVE COATING.

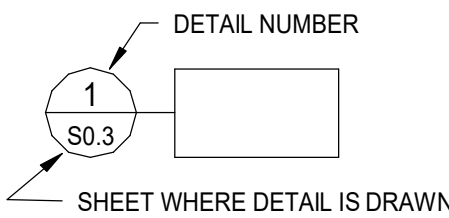
ABBREVIATIONS:
THE FOLLOWING ABBREVIATIONS MAY BE USED IN THE DRAWINGS.

#	NUMBER
@	AND
AT	AT
ABV	ABOVE
ADDL	ADDITIONAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
BLDG	BUILDING
BRDG	BRIDGING
C/C	CENTER TO CENTER SPACING
CMU	CONCRETE MASONRY UNIT
COORD	COORDINATE
D&E	DRILL AND EPOXY
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EF	EACH FACE
EMBED	EMBEDMENT, EMBEDDED
EQ	EQUAL
EXP	EXPANSION
FBC	FLORIDA BUILDING CODE
fc	28 DAY CONCRETE STRENGTH+
FLOOR	FLOOR
Fy=	YIELD STRENGTH+
GA	GAGE
GALV	GALVANIZE(D)
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
IN	INCH
INFO	INFORMATION
K	KIPS (1000 LBS)
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
NWC	NORMALWEIGHT CONCRETE
Ø	ROUND, DIAMETER
OC	ON CENTER
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
REF	REINFORCED CONCRETE
REF	REFERENCE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPEC	SPECIFICATION
STD	STANDARD
SYMM	SYMMETRIC, SYMMETRICAL
SVS	SYSTEM
TEMP	TEMPORARY
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIES
VERT	VERTICAL
W/	WITH
W/O	WITH OUT

LEGENDS



SECTION MARK

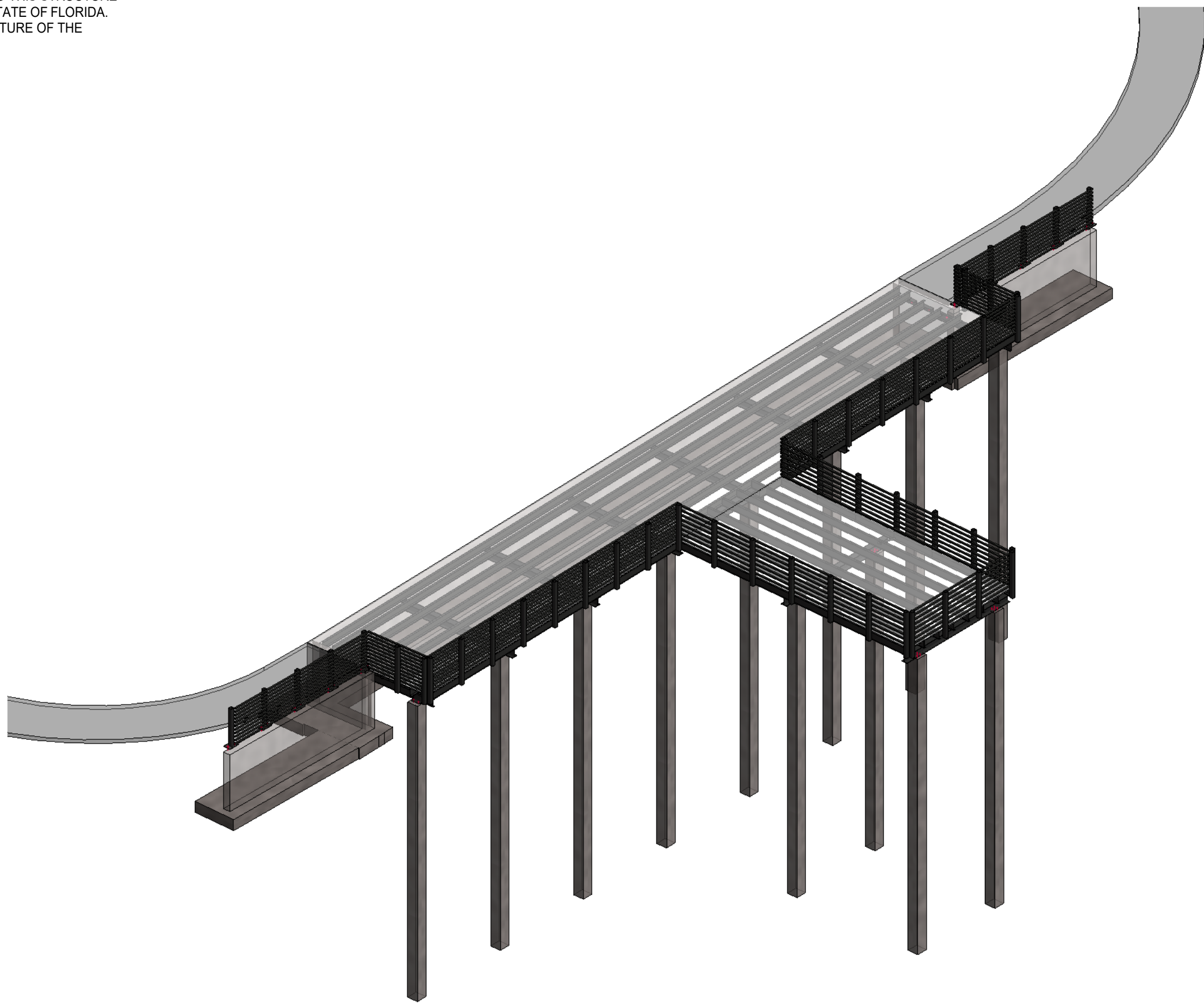


DETAIL MARK

BEAM SCHEDULE		
MARK	Description	COMMENTS
C8x13.7	STEEL CHANNEL	
CSCS8x7.86 ALUMINUM 6061-T6	ALUMINUM JOIST	
L6x4x3/4	STEEL ANGLE	
WF8x8.32 ALUMINUM 6061-T6	ALUMINUM GIRDER	

WALL SCHEDULE		
TYPE MARK	Description	COMMENTS
RCW-1	8" LOAD BEARING RC WALL REINFORCED WITH #5@8" C/C EACH WAY AT CENTER	

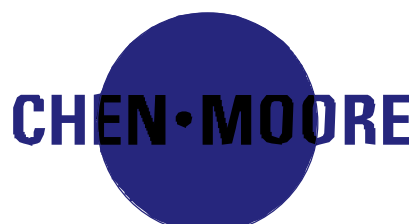
FOUNDATION SCHEDULE							
Type	WIDTH	LENGTH	FOUNDATION THICKNESS	BOTTOM REINFORCING LW	BOTTOM REINFORCING SW	TOP REINFORCING LW	TOP REINFORCING SW
CF48	4'-0"	CONT	12"	#6@12" C/C	#3@16" C/C	#6@12" C/C	#3@16" C/C



SHEET INDEX

SHT NO.	DESCRIPTION	CURRENT REVISION	CURRENT REVISION DATE
S-1	STRUCTURAL NOTES	1	03/20/2019
S-2	PLANS		
S-3	PARTIAL PLAN DETAILS	1	03/20/2019
S-4	SECTIONS & SCHEDULES		

NOTE: MUE18051602
THESE DRAWINGS, ALONG WITH THE CIVIL DRAWINGS, LANDSCAPE DRAWINGS AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.
DETAILS AND VIEWS ON THIS SHEET ARE TO SCALE INDICATED WHEN PRINTED ON A 22x34 SIZE SHEET.



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EB4593 LC26000425

REGISTRATION

MARCUS O. UNTERWEGER
FL P.E. # 63860
DECEMBER 17, 2018

SUB-CONSULTANT

MUEngineers, Inc.
Certificate of Authorization No.29348

CONSULTING STRUCTURAL
ENGINEERS

3440 N.E. 12TH AVENUE
OAKLAND PARK, FL 33334
PH: 954-324-4730

CLIENT



PROJECT INFORMATION

ESSEX PARK OBSERVATION PLATFORM

PROJECT NUMBER

MUE18051602

CLIENT PROJECT NUMBER

VERIFY SCALES

0" = 1"

IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

No.	Description	Date
1	BID SET REVISION	03/20/2019

DATE OF ISSUE

10/31/18

DESIGNED BY

GS

DRAWN BY

CF

CHECKED BY

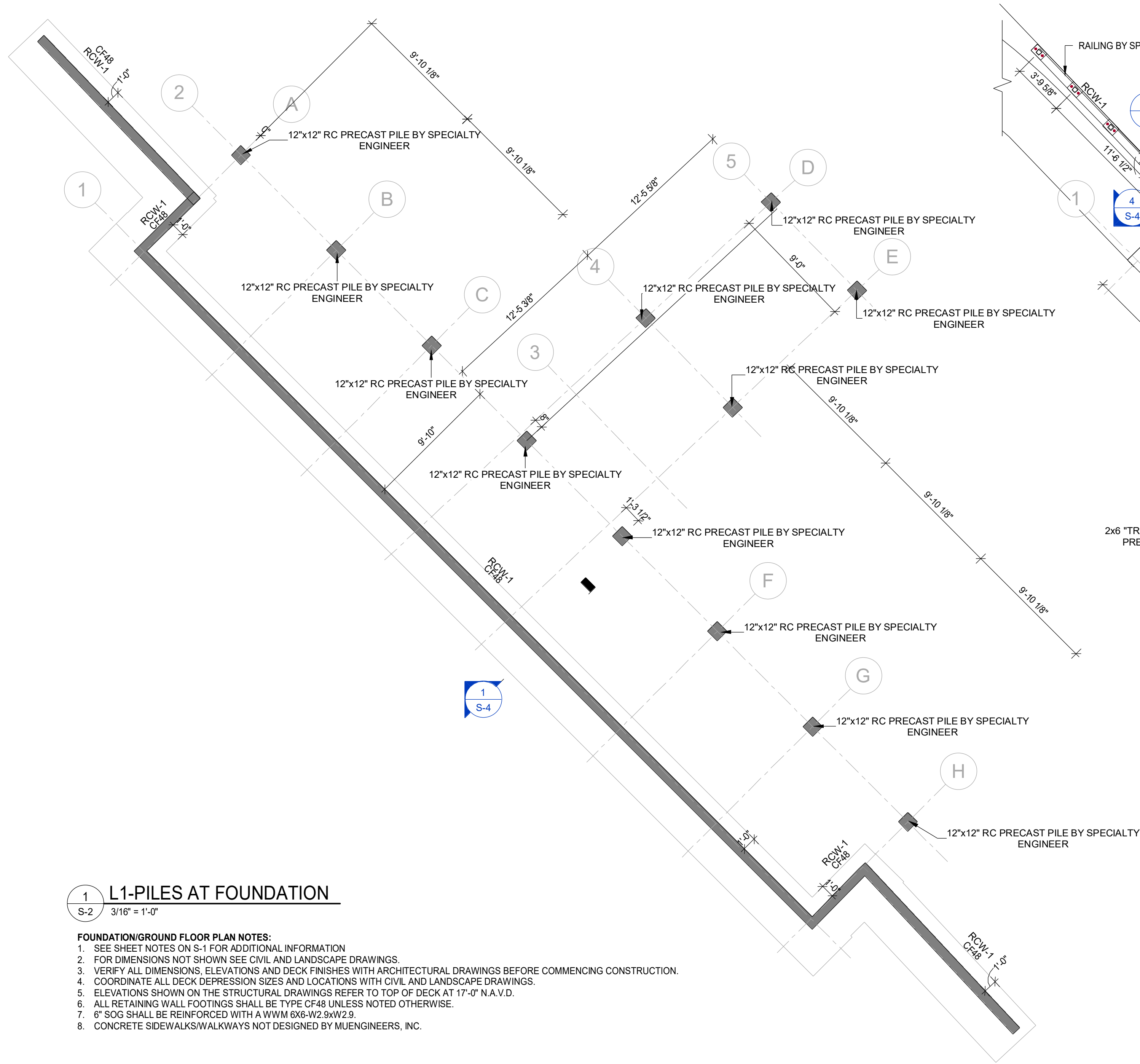
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DRAWING TITLE STRUCTURAL NOTES

SHEET NUMBER

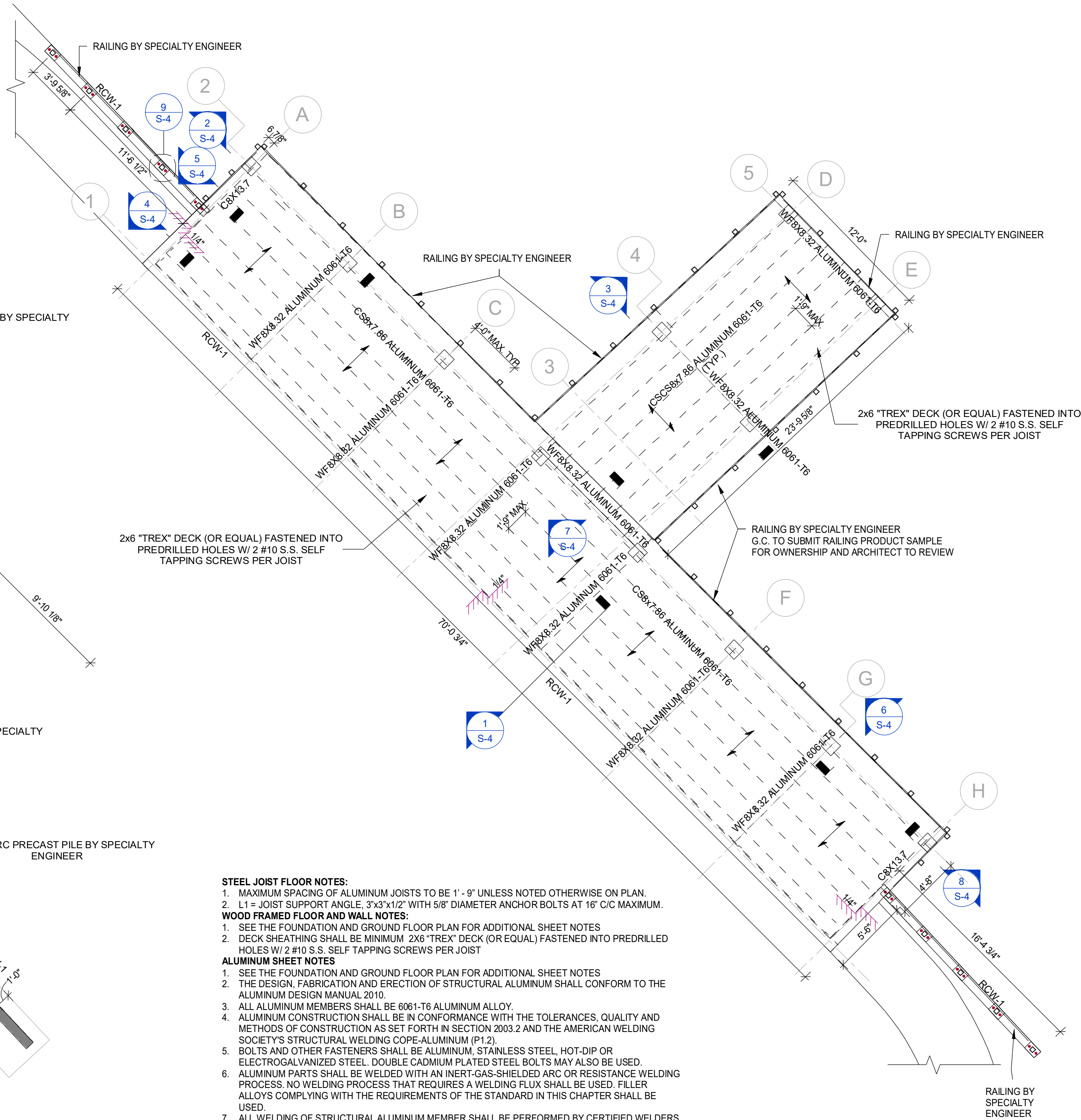
S-1
09 OF 15

Plot Date: --- Username: radams Layout Name: PRO-1
Folder Path: V:\Projects\2018\18-350.001 - Essex Park Observation Platform-1250 Essex Dr\Design\CAD\Plans
Filename: 18-350.001 Proposed
Plan.dwg



1 L1-PILES AT FOUNDATION

- FOUNDATION/GROUND FLOOR PLAN NOTES:**
- SEE SHEET NOTES ON S-1 FOR ADDITIONAL INFORMATION.
 - FOR DIMENSIONS NOT SHOWN SEE CIVIL AND LANDSCAPE DRAWINGS.
 - VERIFY ALL DIMENSIONS, ELEVATIONS AND DECK FINISHES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
 - COORDINATE ALL DECK DEPRESSION SIZES AND LOCATIONS WITH CIVIL AND LANDSCAPE DRAWINGS.
 - ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS REFER TO TOP OF DECK AT 17'-0" N.A.V.D.
 - ALL RETAINING WALL FOOTINGS SHALL BE TYPE CF48 UNLESS NOTED OTHERWISE.
 - 6" SOG SHALL BE REINFORCED WITH A WWM 6X6-W2.9XW2.9.
 - CONCRETE SIDEWALKS/WALKWAYS NOT DESIGNED BY MUENGINEERS, INC.



- STEEL JOIST FLOOR NOTES:**
- MAXIMUM SPACING OF ALUMINUM JOISTS TO BE 1' - 9" UNLESS NOTED OTHERWISE ON PLAN.
 - L1 = JOIST SUPPORT ANGLE, 3"x3"x1/2" WITH 5/8" DIAMETER ANCHOR BOLTS AT 16" C/C MAXIMUM.
- WOOD FRAMED FLOOR AND WALL NOTES:**
- SEE THE FOUNDATION AND GROUND FLOOR PLAN FOR ADDITIONAL SHEET NOTES
 - DECK SHEATHING SHALL BE MINIMUM 2X6 "TREX" DECK (OR EQUAL) FASTENED INTO PREDRILLED HOLES W/ 2 #10 S.S. SELF TAPPING SCREWS PER JOIST
- ALUMINUM SHEET NOTES**
- SEE THE FOUNDATION AND GROUND FLOOR PLAN FOR ADDITIONAL SHEET NOTES
 - THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL ALUMINUM SHALL CONFORM TO THE ALUMINUM DESIGN MANUAL 2010.
 - ALL ALUMINUM MEMBERS SHALL BE 6061-T6 ALUMINUM ALLOY.
 - ALUMINUM CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE TOLERANCES, QUALITY AND METHODS OF CONSTRUCTION AS SET FORTH IN SECTION 2003.2 AND THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING COPE-ALUMINUM (P1.2).
 - BOLTS AND OTHER FASTENERS SHALL BE ALUMINUM, STAINLESS STEEL, HOT-DIP OR ELECTROGALVANIZED STEEL. DOUBLE CADMIUM PLATED STEEL BOLTS MAY ALSO BE USED.
 - ALUMINUM PARTS SHALL BE WELDED WITH AN INERT GAS-SHIELDED ARC OR RESISTANCE WELDING PROCESS. NO WELDING PROCESS THAT REQUIRES A WELDING FLUX SHALL BE USED. FILLER ALLOYS COMPLYING WITH THE REQUIREMENTS OF THE STANDARD IN THIS CHAPTER SHALL BE USED.
 - ALL WELDING OF STRUCTURAL ALUMINUM MEMBER SHALL BE PERFORMED BY CERTIFIED WELDERS.
 - ALUMINUM SURFACES IN CONTACT WITH LINE-MORTAR, CONCRETE, OR OTHER MASONRY MATERIALS, SHALL BE PROTECTED WITH ALKALI-RESISTANT COATINGS, SUCH AS HEAVY-BODIED BITUMINOUS PAINT OR WATER-WHITE METHACRYLATE LACQUER.
 - ALL CONNECTION TO BE WELDED USE 1/8" MIN. WELD SIZE, TYPICAL, U.N.O.
 - WHERE INDICATED MEMBER TO MEMBER CONNECTION USE ALUMINUM FILLER ALLOY 5356. ALL AROUND ALLOWABLE STRESS FOR WELDING F1/7.0 KS
 - ALL EXTERIOR AND EXPOSED NAILS AND SCREWS SHALL BE STAINLESS STEEL
 - ALL FIELD WELDS SHALL BE COATED WITH TWO COATS OF CORROSION INHIBITING SINK RICH MARINE GRADE PAINT

2 L2-DECK LEVEL

NOTE: MUE18051602
THESE DRAWINGS, ALONG WITH THE CIVIL DRAWINGS, LANDSCAPE DRAWINGS AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.
DETAILS AND VIEWS ON THIS SHEET ARE TO SCALE INDICATED WHEN PRINTED ON A 22x34 SIZE SHEET.

CHEN•MOORE

& ASSOCIATES
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West Palm Beach, FL 33401
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www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION

MARCUS O. INTERWEGER
FL P.E. # 63860
DECEMBER 17, 2018

SUB-CONSULTANT

MUEngineers, Inc.
Certificate of Authorization No.29348
CONSULTING STRUCTURAL
ENGINEERS

3440 N.E. 12TH AVENUE
OAKLAND PARK, FL 33334
PH: 954-324-4730

CLIENT

**THE VILLAGE OF
WELLINGTON**
Engineering Department
12300 Forest Hill Boulevard, Wellington, Florida 33414

PROJECT INFORMATION

**ESSEX PARK
OBSERVATION
PLATFORM**

PROJECT NUMBER

MUE18051602

CLIENT PROJECT NUMBER

VERIFY SCALES

0" = 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

REVISIONS

No.	Description	Date

DATE OF ISSUE

10/31/18

DESIGNED BY

Designer

DRAWN BY

Author

CHECKED BY

Checker

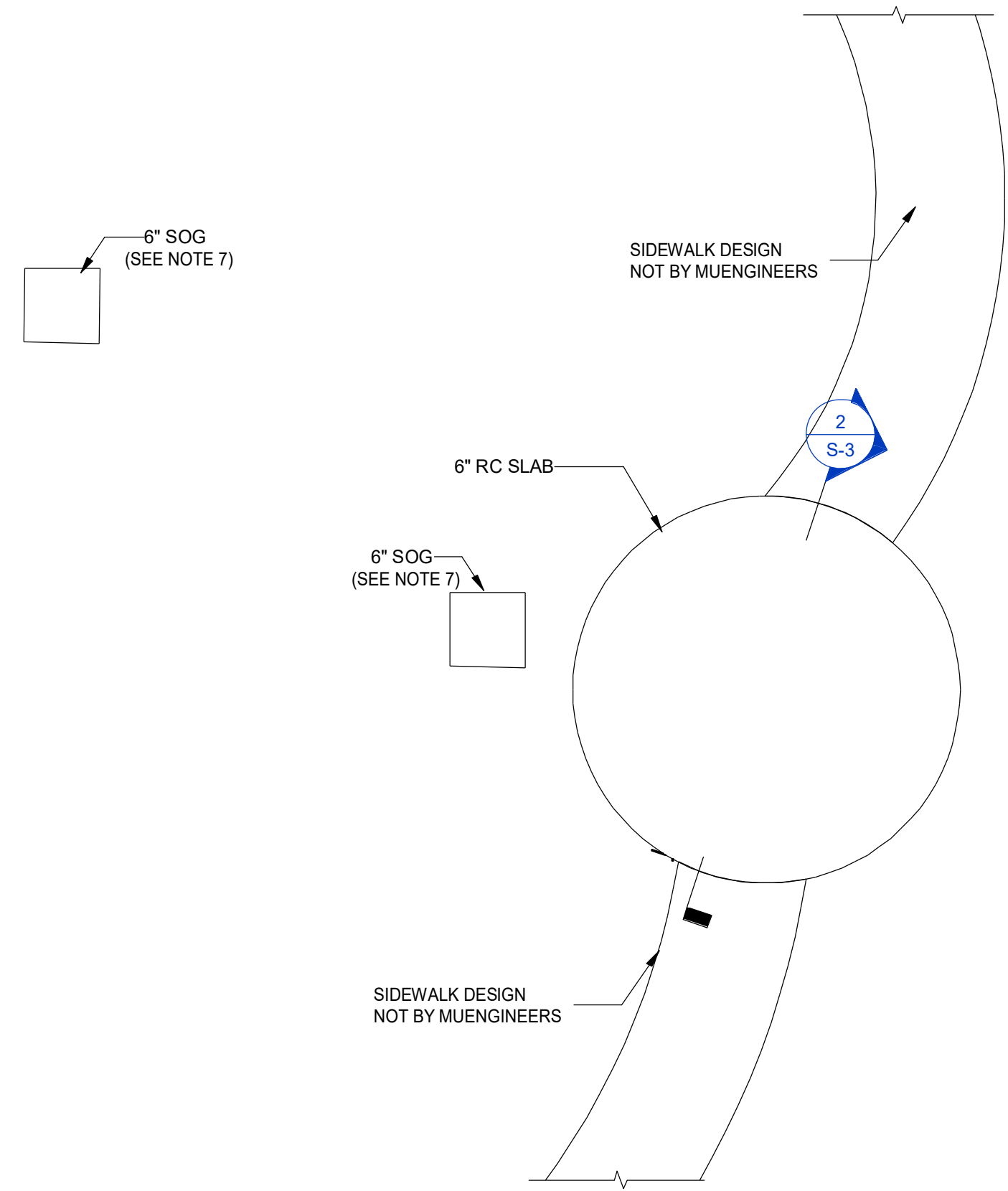
DRAWING TITLE
PLANS

SHEET NUMBER

S-2

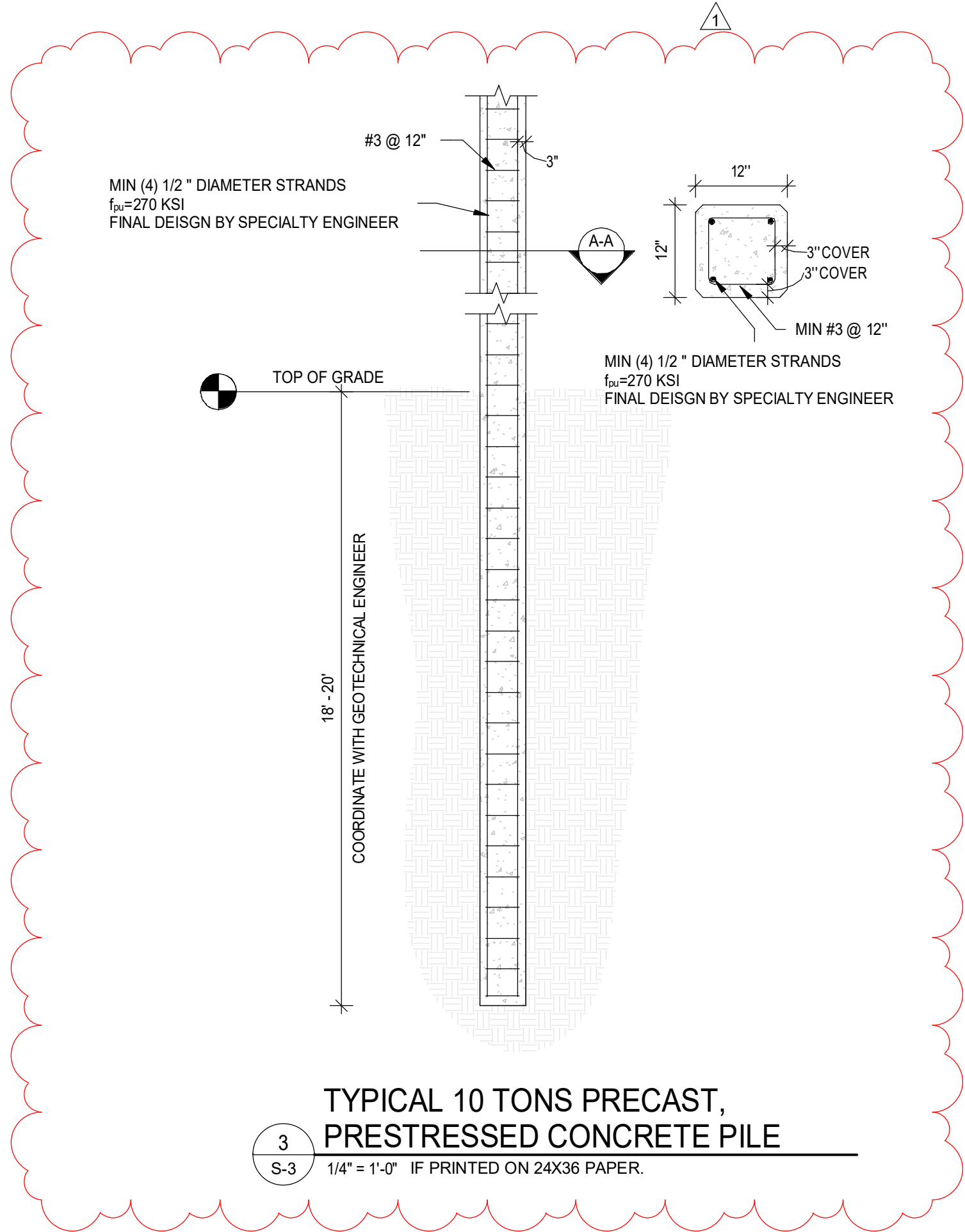
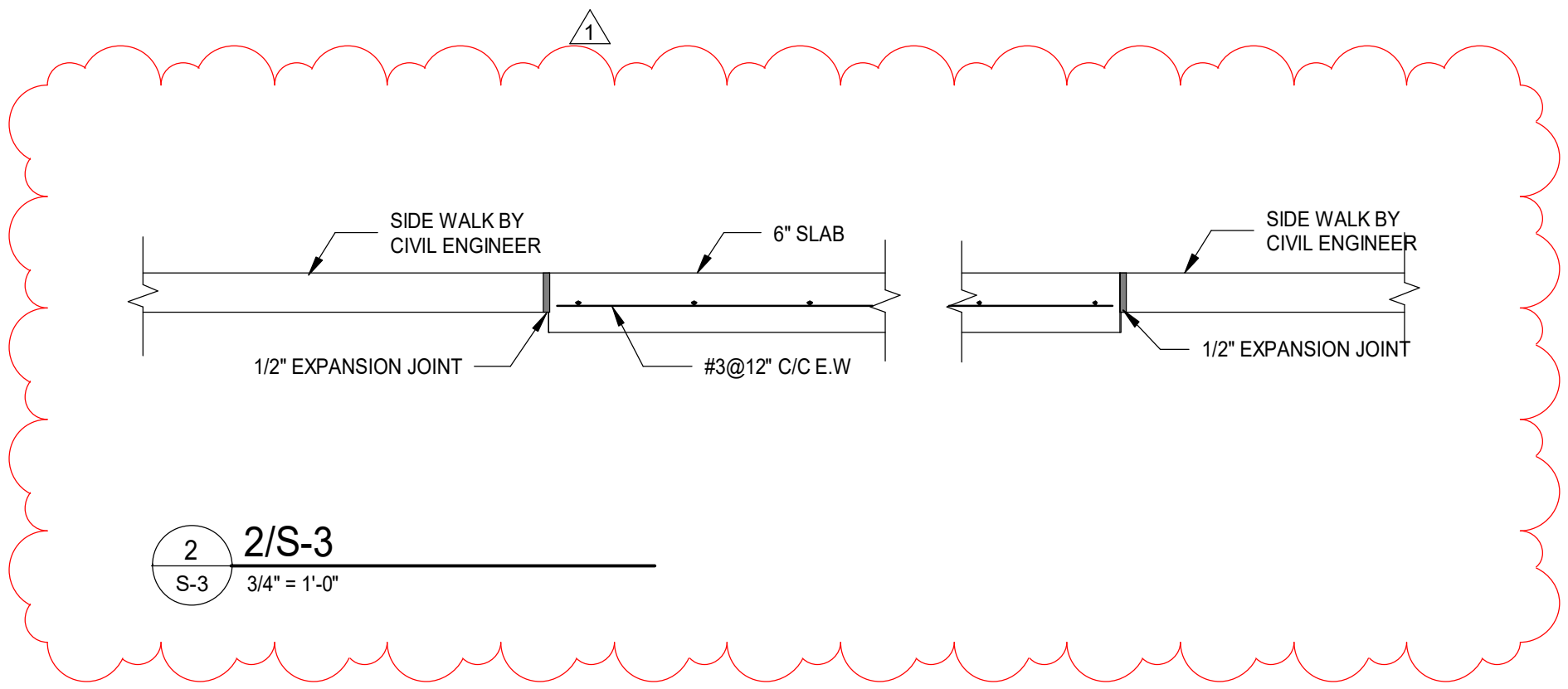
10 OF 15

Plot Date: --- Username: radams Layout Name: PRO-1
Folder Path: V:\Projects\2018\18-350.001 - Essex Park Observation Platform-1250 Essex Dr\Design\CAD\Plans
Filename: 18-350.001 Proposed
Plan.dwg



1 L2-DECK LEVEL
S-3 3/16" = 1'-0"

- FOUNDATION/GROUND FLOOR PLAN NOTES:**
1. SEE SHEET NOTES ON S-1 FOR ADDITIONAL INFORMATION
 2. FOR DIMENSIONS NOT SHOWN SEE CIVIL AND LANDSCAPE DRAWINGS.
 3. VERIFY ALL DIMENSIONS, ELEVATIONS AND DECK FINISHES WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION.
 4. COORDINATE ALL DECK DEPRESSION SIZES AND LOCATIONS WITH CIVIL AND LANDSCAPE DRAWINGS.
 5. ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS REFER TO TOP OF DECK AT 17'-0" N.A.V.D.
 6. ALL RETAINING WALL FOOTINGS SHALL BE TYPE OF-48 UNLESS NOTED OTHERWISE.
 7. 6" SOG SHALL BE REINFORCED AS INDICATED ON DETAIL 2/S3
 8. CONCRETE SIDEWALKS/WALKWAYS NOT DESIGNED BY MUENGINEERS, INC.



NOTE: MUE18051602
THESE DRAWINGS, ALONG WITH THE CIVIL DRAWINGS, LANDSCAPE DRAWINGS AND PROJECT MANUAL CONSTITUTE A SINGULAR CONTRACT DOCUMENT AND MUST BE USED TOGETHER IN THEIR ENTIRETY IN THE CONSTRUCTION OF THIS PROJECT.
DETAILS AND VIEWS ON THIS SHEET ARE TO SCALE INDICATED WHEN PRINTED ON A 22x34 SIZE SHEET.

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REVISIONS

No.	Description	Date
1	BID SET REVISION	03/20/2019

DATE OF ISSUE

10/31/18

DESIGNED BY

Designer

DRAWN BY

Author

CHECKED BY

Checker

DRAWING TITLE

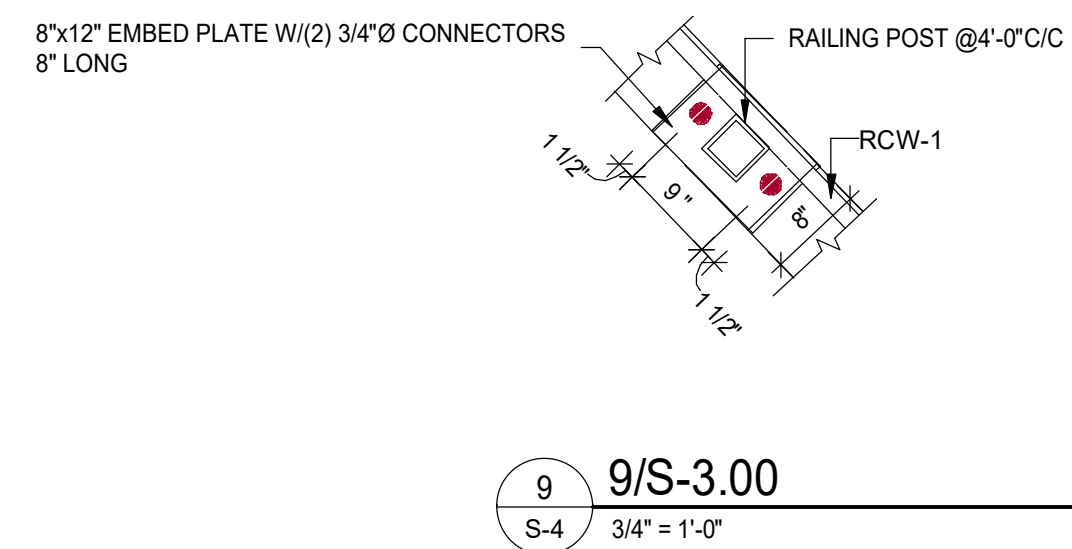
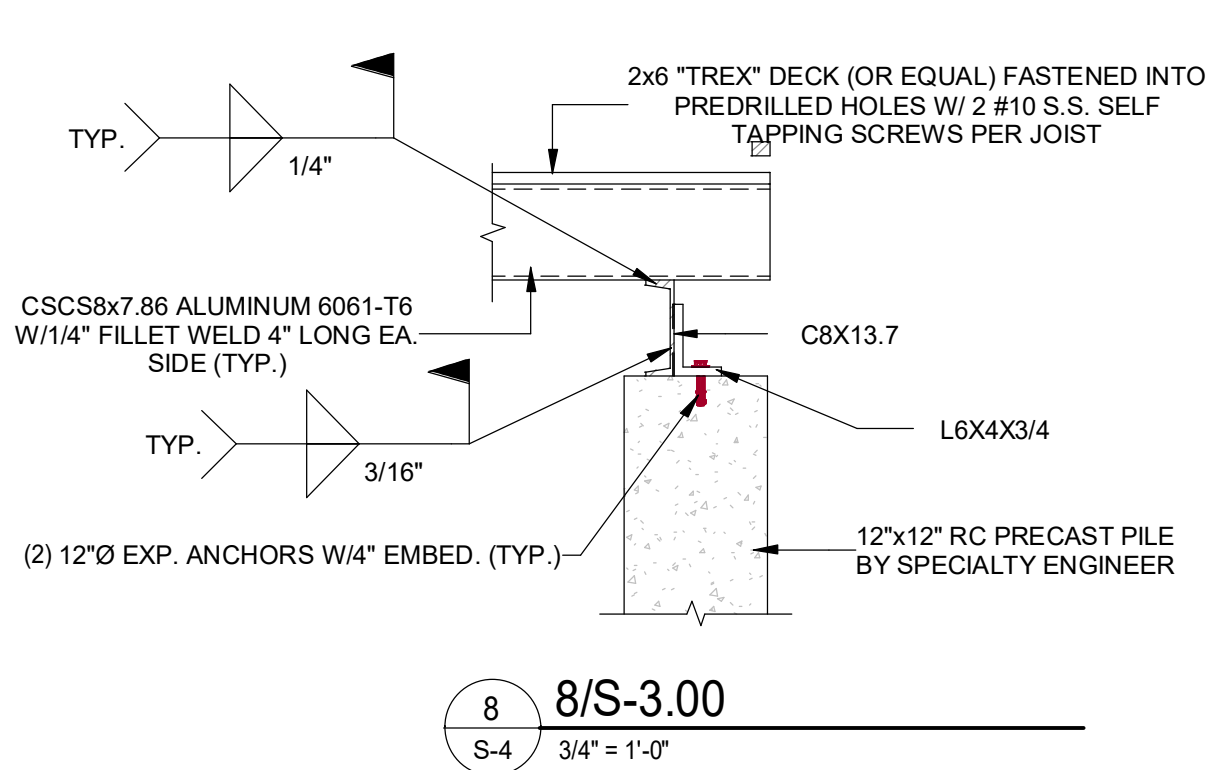
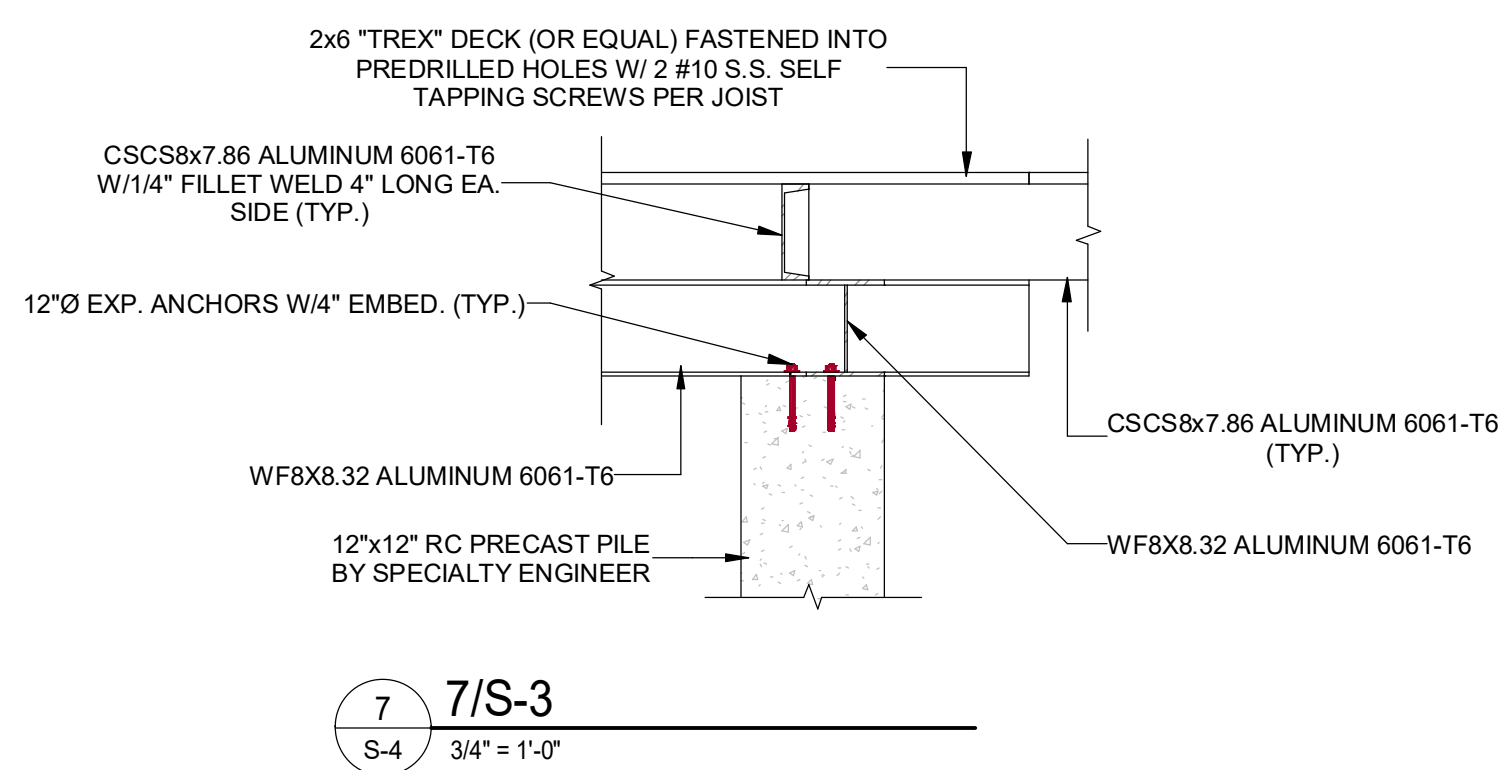
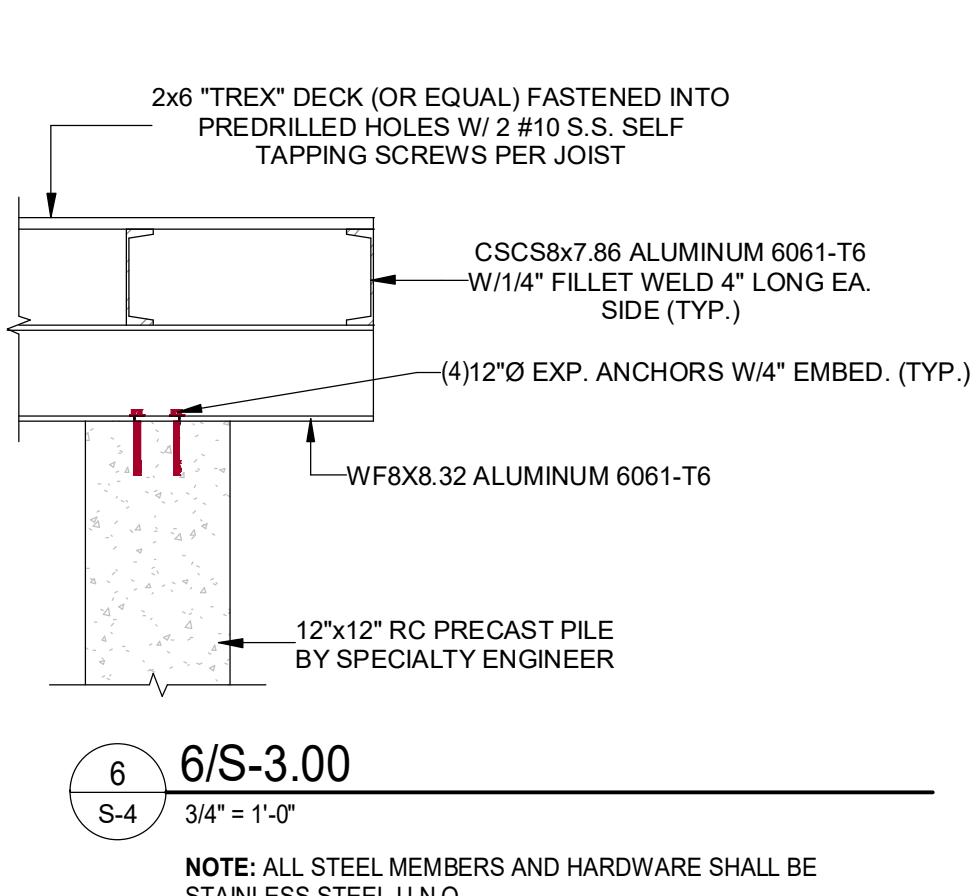
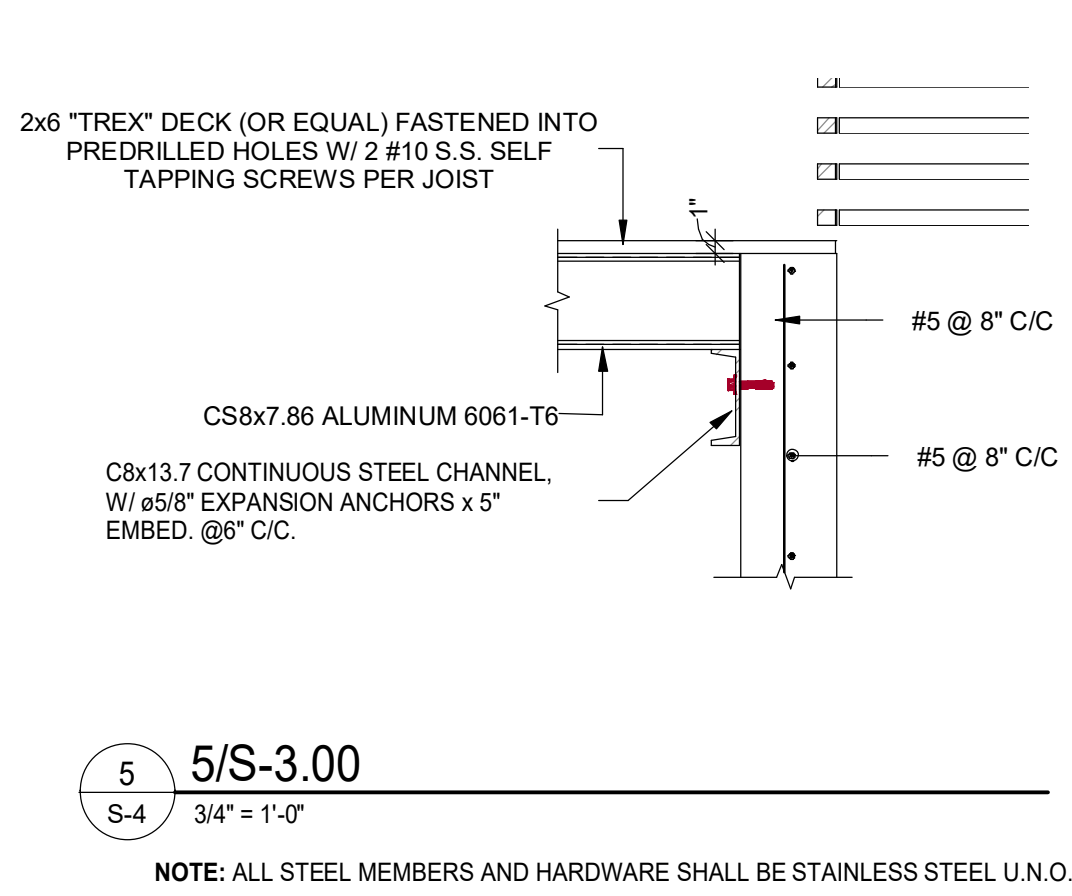
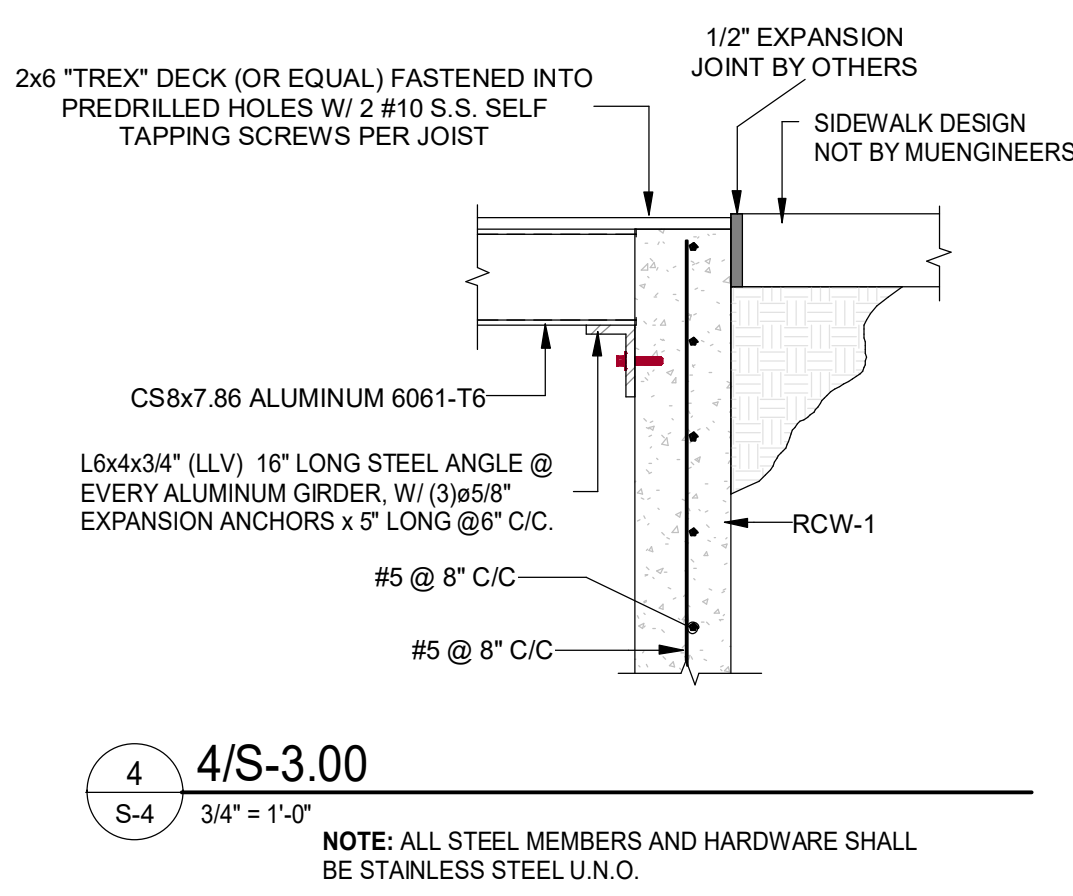
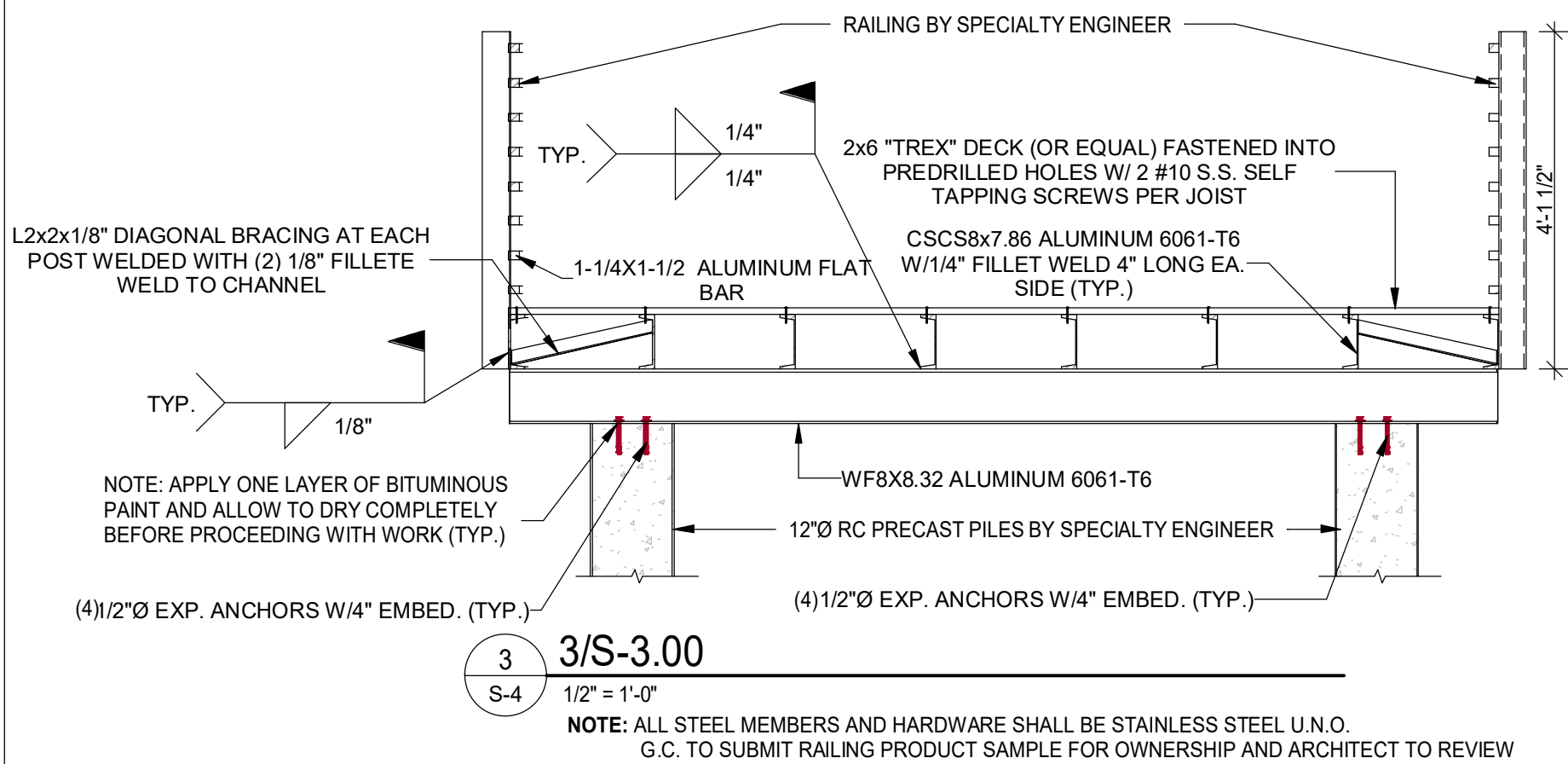
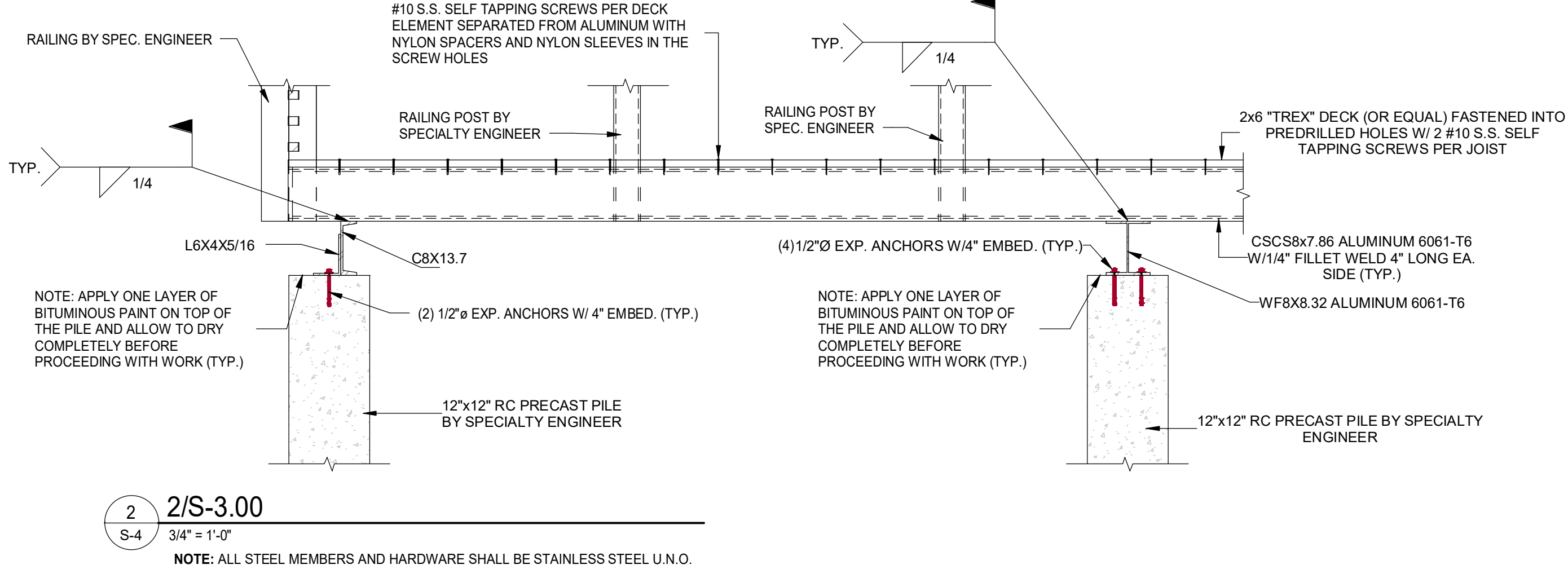
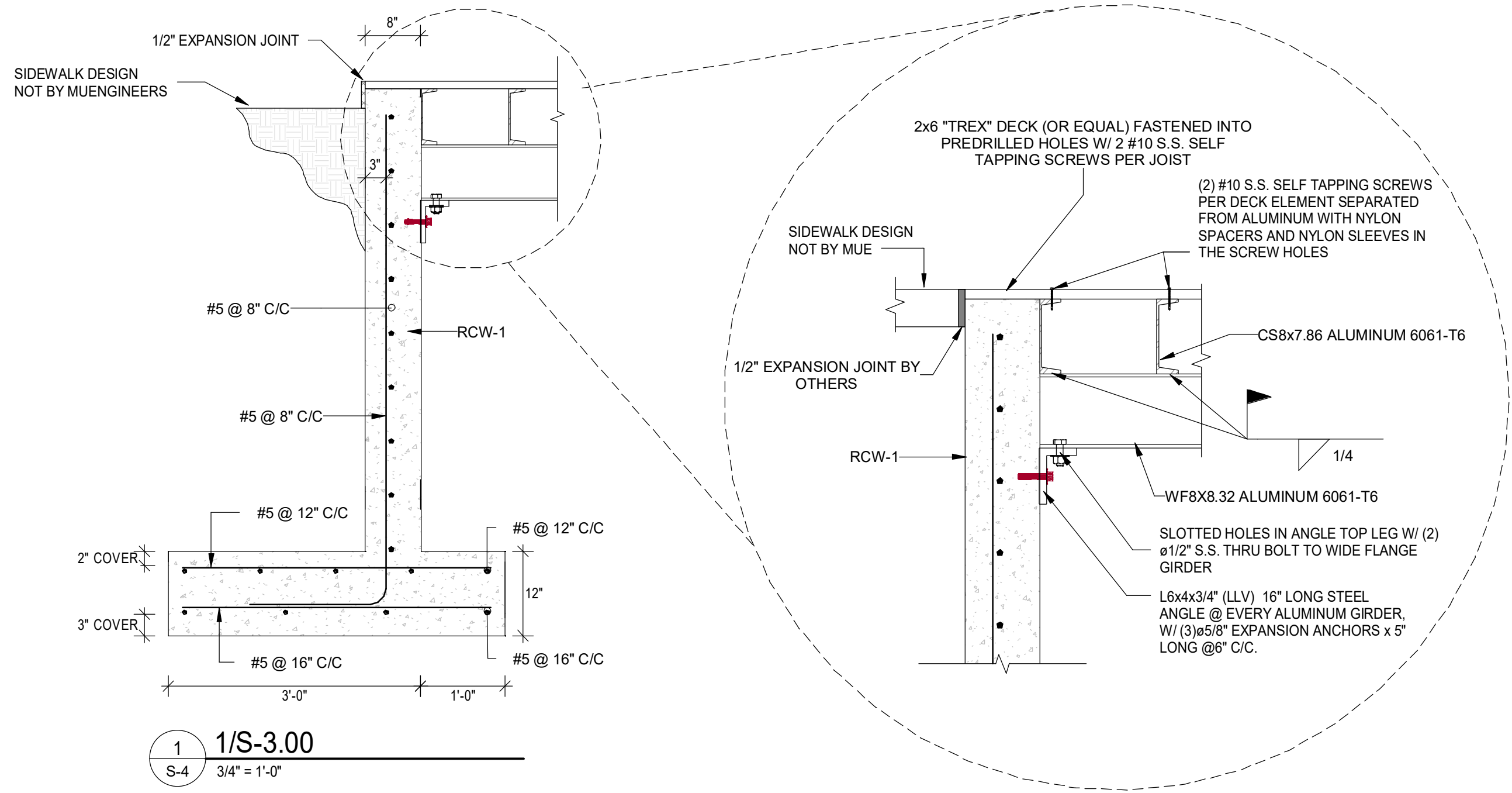
PARTIAL PLAN
DETAILS

SHEET NUMBER

S-3

11 OF 15

Plot Date: --- Username: radams Layout Name: PRO-1
Folder Path: V:\Projects\2018\18-350.001 - Essex Park Obsvtn Plattrm-1250 Essex Dr\Design\CAD\Plans
Filename: 18-350.001 Proposed Plan.dwg



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Designer

DRAWN BY

Author

CHECKED BY

Checker

DRAWING TITLE
SECTIONS &
SCHEDULES

SHEET NUMBER

S-4

12 OF 15