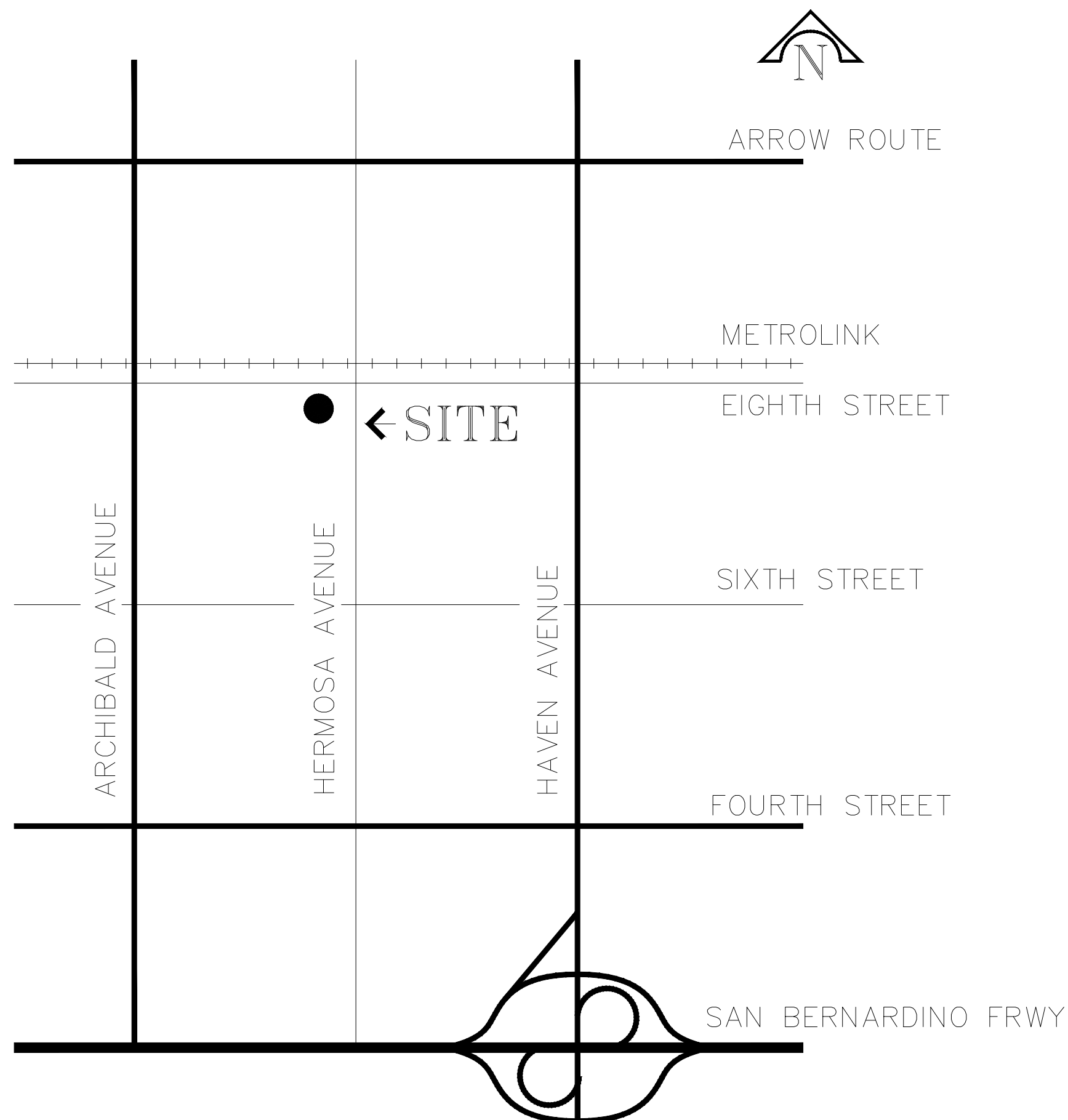


**MIZKAN AMERICAS, INC.**  
10037 8TH ST.  
RANCHO CUCAMONGA, CA  
**PROPOSED NEW ACETATOR SYSTEM**

ASSESSOR'S PARCEL NUMBER

A.P.N. 209-201-18

## VICINITY MAP



## SCOPE OF WORK

THIS PROJECT INVOLVES THE INSTALLATION OF AN ACETATOR SYSTEM IN AN EXISTING BUILDING. THIS INVOLVES THE REMOVAL AND REWORK OF EXISTING CONCRETE TANKS, MODIFICATION TO THE EXISTING ROOF FOR ACCESS FOR NEW STEEL TANKS, CONSTRUCTION OF A NEW COOLING TOWER SUPPORT STRUCTURE AND COOLING TOWER. ALL OF THE WORK IS LOCATED WITHIN THE EXISTING BUILDING WITH THE EXCEPTION OF THE COOLING TOWER AND SUPPORT STRUCTURE.

CODE: 2013 CBC  
LOADS: DEAD LOADS  
CBC LIVE LOADS  
CBC WIND LOADS (110 MPH)  
CBC SEISMIC LOADS

SOIL PRESSURE: 1,000 PSF.

THIS PROJECT SHALL COMPLY WITH THE  
2013 EDITION OF THE CALIFORNIA BUILDING  
CODE (TITLE 24), WHICH ADOPTS THE 2012 IBC,  
2012 UMC, 2012 UPC, AND THE 2012 NEC  
ALL ELECTRICAL SHALL COMPLY WITH CEC 2012.  
W/ 2014 LA COUNTY AMENDMENTS

## SHEET INDEX

- CS - COVER SHEET
- SP - SITE PLAN
- GA - GENERAL ARRANGEMENT ACETATOR SYSTEM STL STL TANKS
- S1 - EXISTING CONCRETE TANK PLANS
- S2 - EXISTING CONCRETE TANK DEMOLITION PLANS
- S2.1- NEW TANK ROOF ACCESS OPENING DEMOLITION PLAN
- S3 - TANK BUILDING SECTIONS
- S4 - NEW SS TANK LOCATION PLANS
- S4.1- NEW STL STL TANK CATWALK SERVICE PLATFORM
- S4.2- CATWALK SERVICE PLATFORM SECTIONS & DETAILS
- S4.3- MAINTENANCE SERVICE PLATFORM
- S4.4- PIPE RUN SUPPORT PLAN
- S5 - NEW SS ROOF FRAMING SECTION & DETAILS
- S6 - NEW STL STL TANK SECTIONS & BASE DETAILS
- S7 - PROPOSED COOLING TOWER PLATFORM LOCATION
- S8 - COOLING TOWER PLANS & ELEVATIONS
- S9 - COOLING TOWER CONN DETAILS
- S10 - SCRUBBER SYSTEM

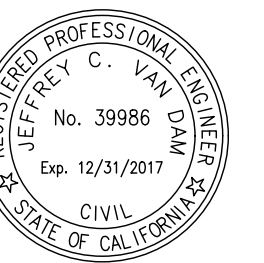
OWNER/APPLICANT

MIZKAN AMERICAS, INC.  
10037 EIGHTH STREET  
RANCHO CUCAMONGA, CALIFORNIA 91370

**VAN DAM ENGINEERING**  
CONSULTING CIVIL ENGINEERS  
1844 W. 11TH STREET, SUITE D  
UPLAND, CA 91786-3586  

---

(909) 931-5070  
FAX (909) 931-5072



AL

[illegible]

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RANCHO CUCAMONGA, CA

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RAWN BY: CJH

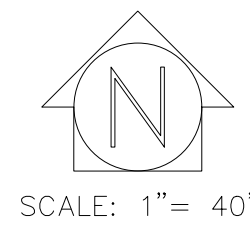
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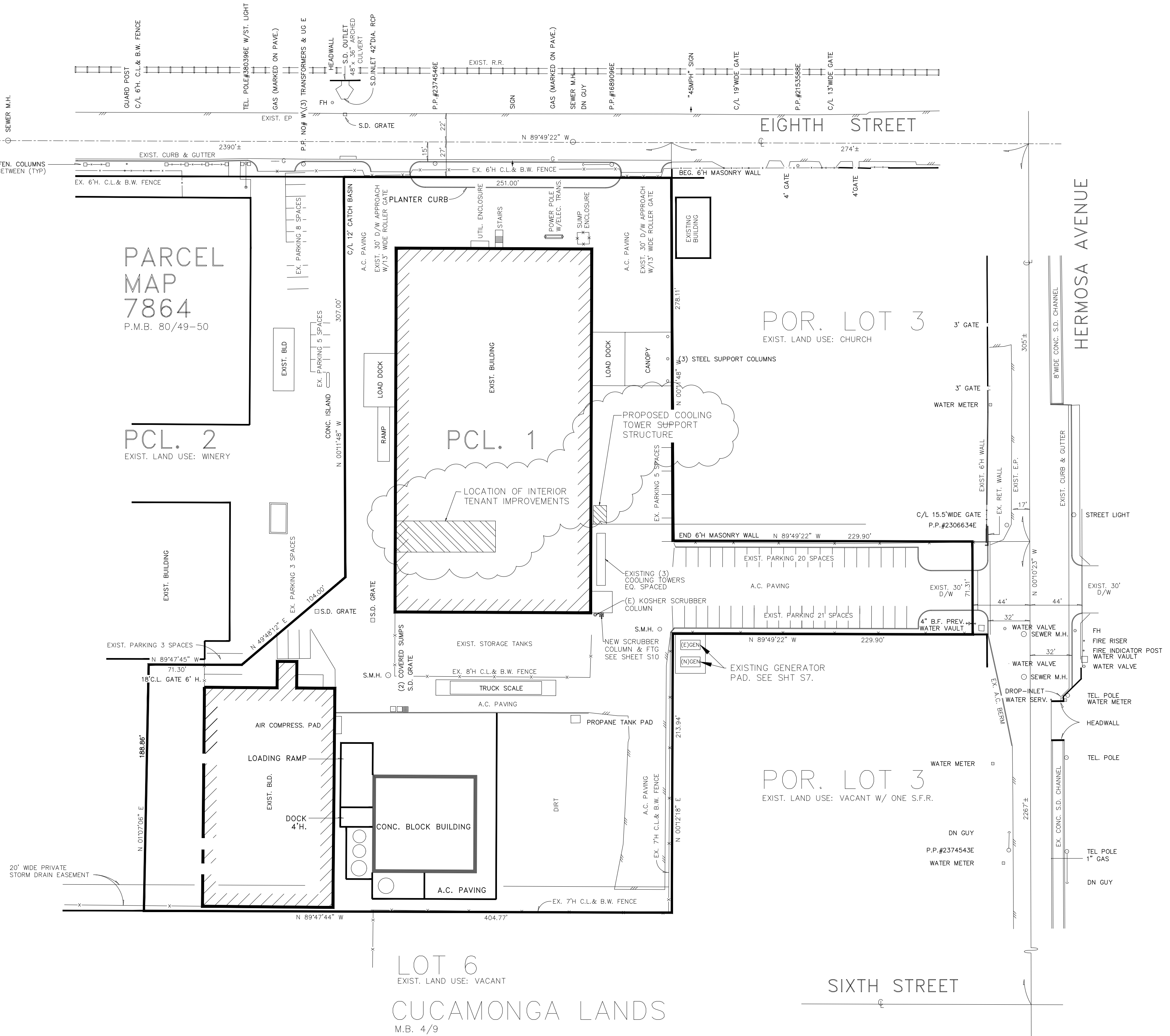
COVER SHEET

CS

SHEET 1 OF 18



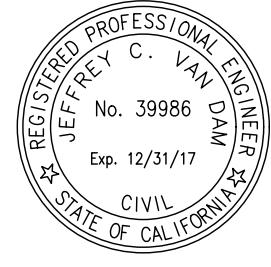
ARCHIBALD AVENUE



SITE PLAN  
SCALE: N.T.S.



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REVISIONS	
NO.	DESCRIPTION

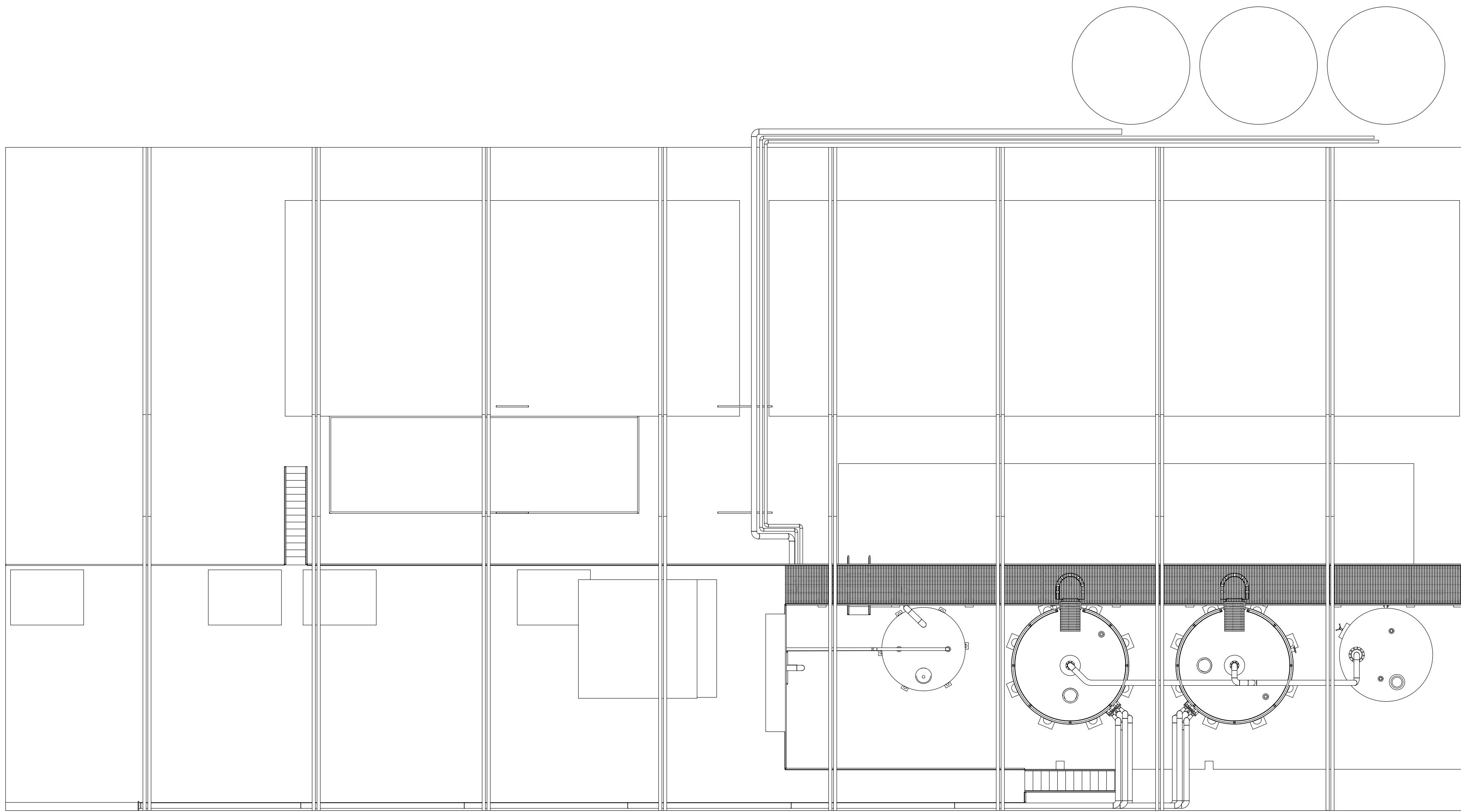
REWORK OF (E) CONCRETE TANKS  
MIZKAN AMERICAS, INC.  
10037 8TH ST.  
RANCHO CUCAMONGA, CA

ATTENTION: VAN DAM ENGINEERING, INC. ENGINEERS  
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ENGINEERING, INC. ANY REPRODUCTION OR  
UNAUTHORIZED USE OF THESE PLANS BY A THIRD  
PARTY IS THE THIRD PARTY'S SOLE RESPONSIBILITY.  
JEFFREY C. VAN DAM ENGINEERS

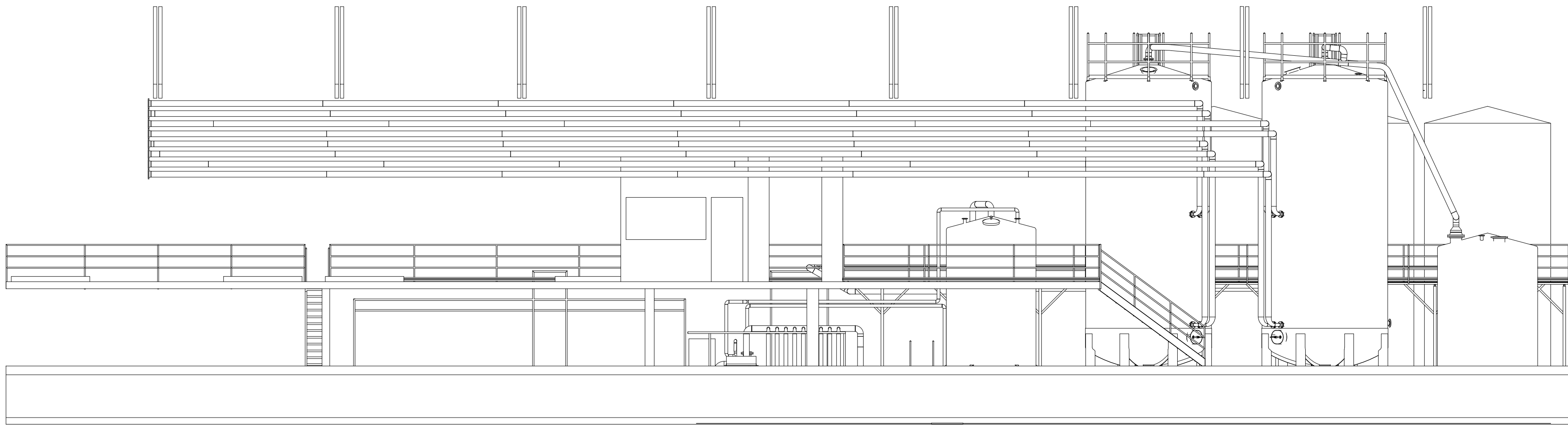
DRAWN BY: C.H.  
DATE: 04-19-16  
SCALE: NONE

SITE PLAN

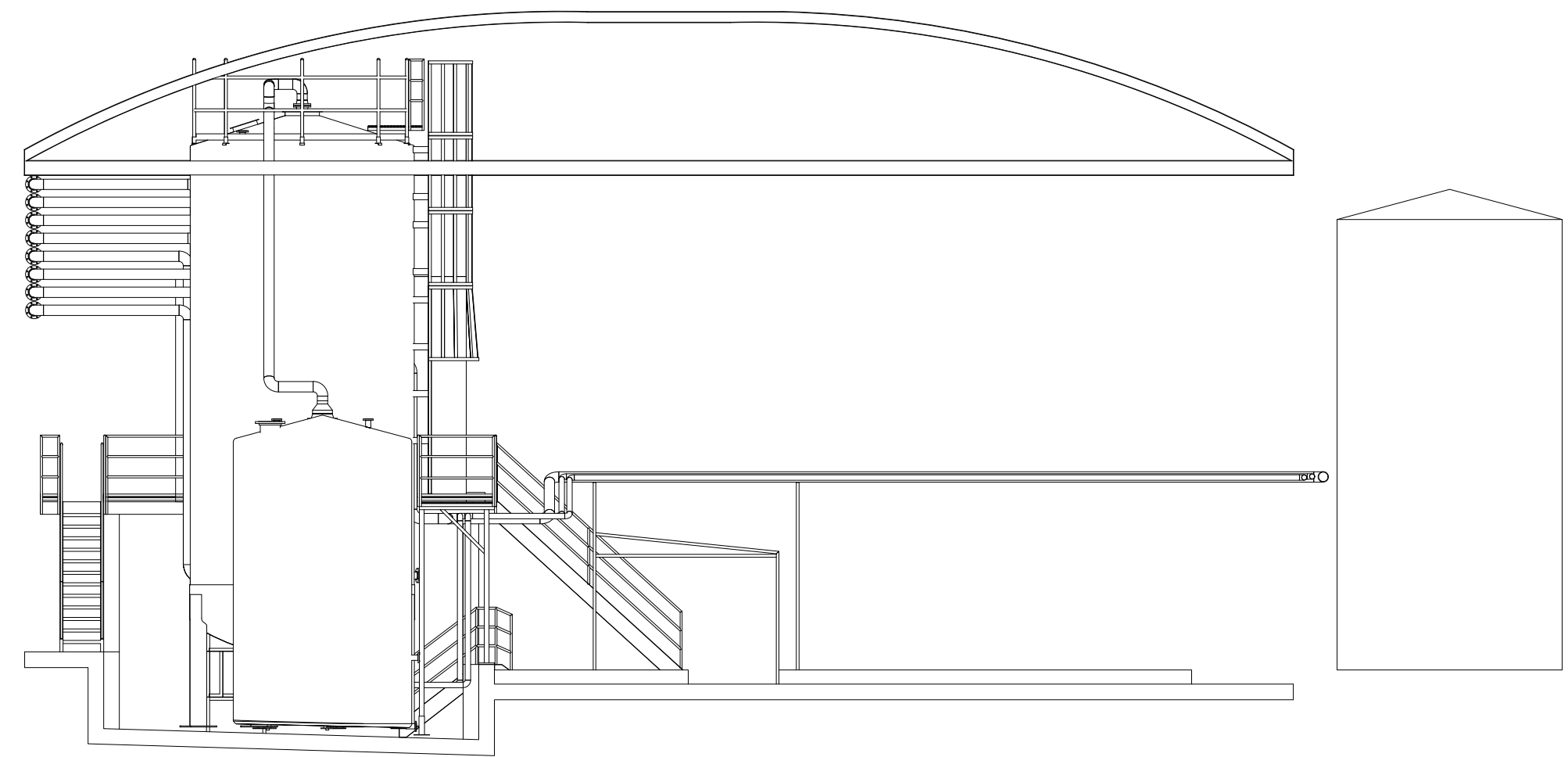
SP



FLOOR PLAN OF ACETATOR SYSTEM  
SCALE: 1/8" = 1'-0"



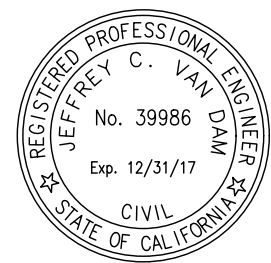
OVERALL ELEVATION OF ACETATOR SYSTEM  
SCALE: 1/8" = 1'-0"



SIDE ELEVATION OF ACETATOR SYSTEM  
SCALE: 1/8" = 1'-0"

NOTE:  
THIS DRAWING IS TO SHOW GENERAL  
ARRANGEMENT OF TANKS. DO NOT  
USE THIS DRAWING FOR CONSTRUCTION

VAN DAM ENGINEERING  
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NO.	DATE		

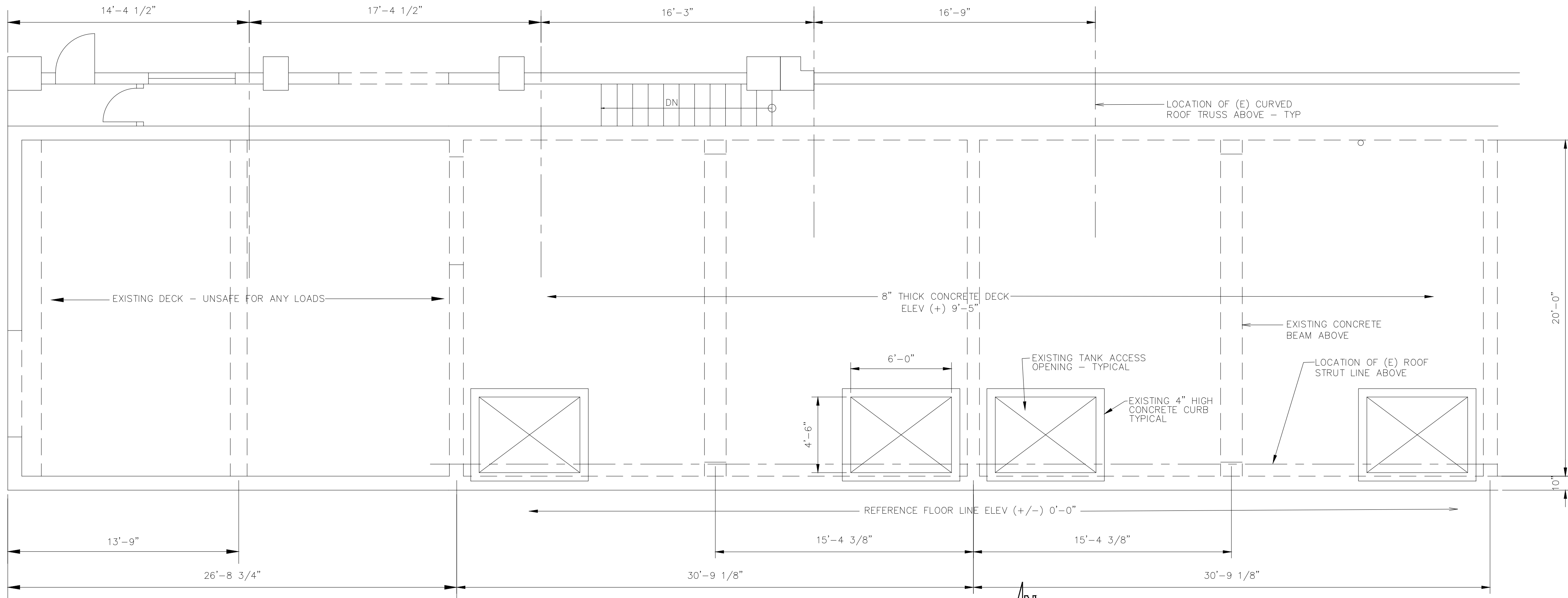
PROP. COOLING TOWER LOCATION  
MIZKAN AMERICAS, INC.  
10037 8TH ST.  
RANCHO CUCAMONGA, CA

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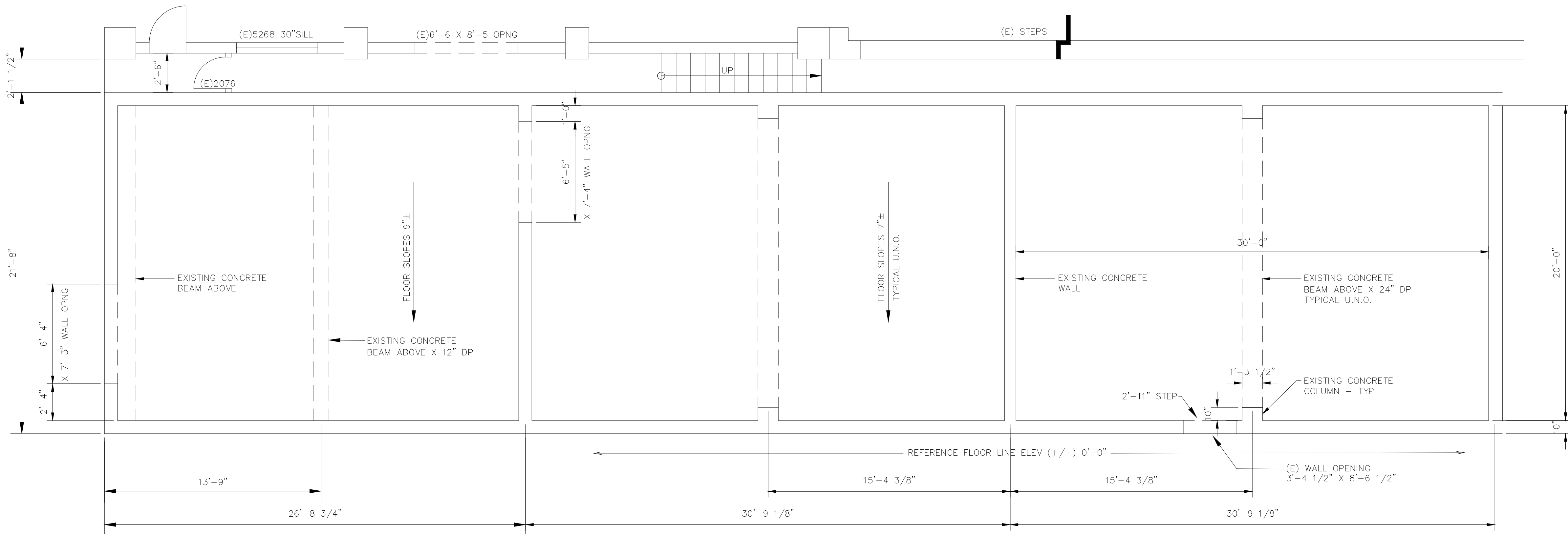
DRAWN BY: JCVD  
DATE: 04-06-16  
SCALE: 1/4" = 1'-0"

PROPOSED  
COOLING TOWER  
LOCATION

GA

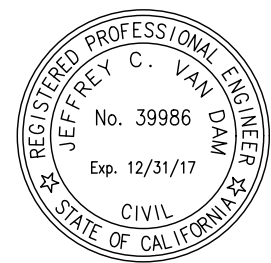


EXISTING CONCRETE TANK FLOOR PLAN (+) 9'-5" (REF)  
SCALE: 1/4" = 1'-0"



EXISTING CONCRETE TANK FLOOR PLAN (-) 2'-8" (REF)  
SCALE: 1/4" = 1'-0"

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SEAL

NO.	DATE	DESCRIPTION			

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RANCHO CUCAMONGA, CA

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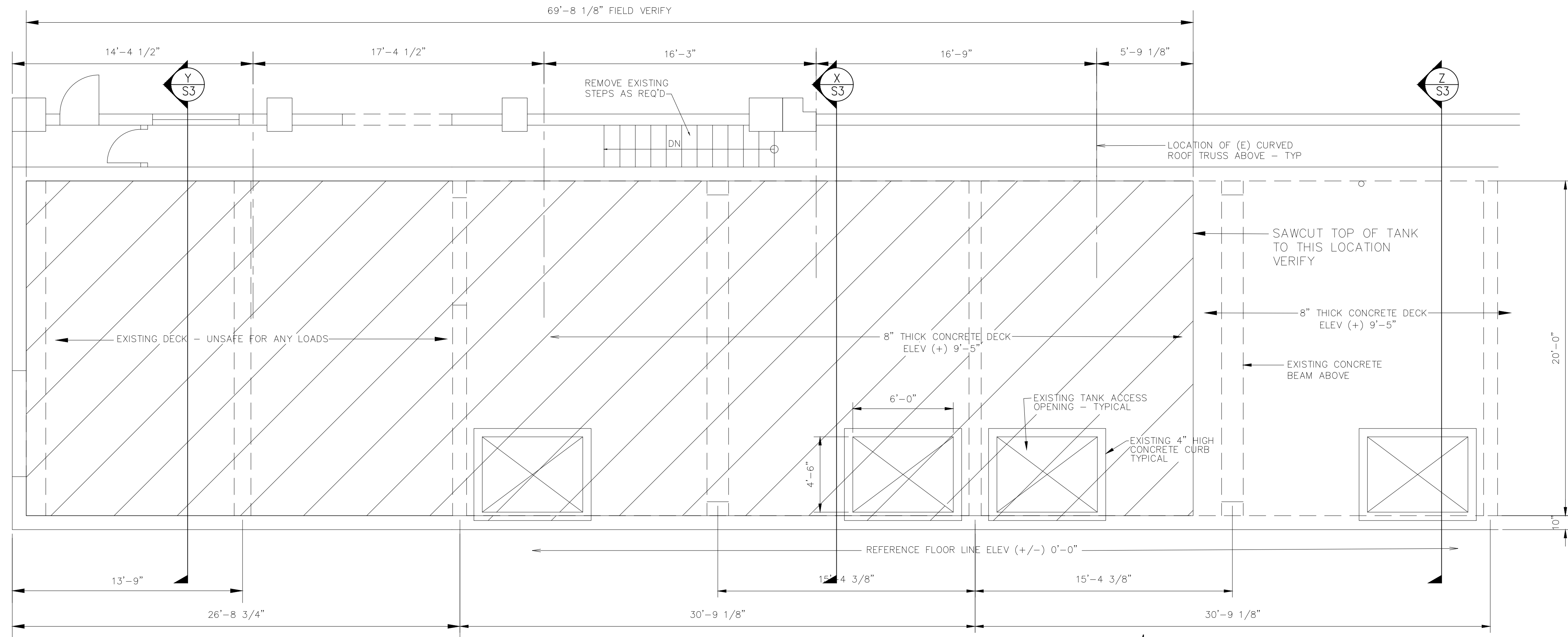
DRAWN BY: C.H.

DATE: 01-28-16

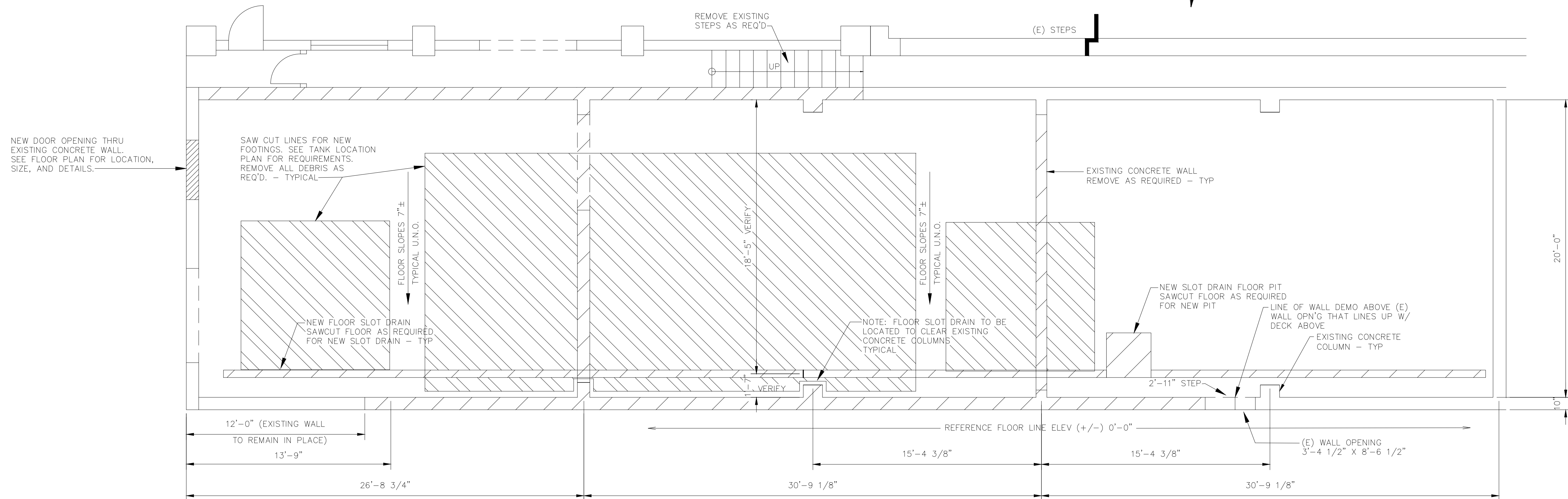
SCALE: 1/4" = 1'-0"

EXISTING  
CONCRETE TANK  
DECK & FLOOR  
PLANS

S1



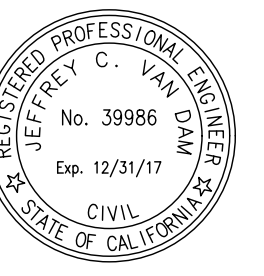
**EXISTING CONCRETE TANK FLOOR PLAN DEMOLITION (+) 9'-5" (REF)**  
SCALE: 1/4" = 1'-0"



**EXISTING CONCRETE TANK FLOOR PLAN DEMOLITION (-) 2'-8" (REF)**  
SCALE: 1/4" = 1'-0"



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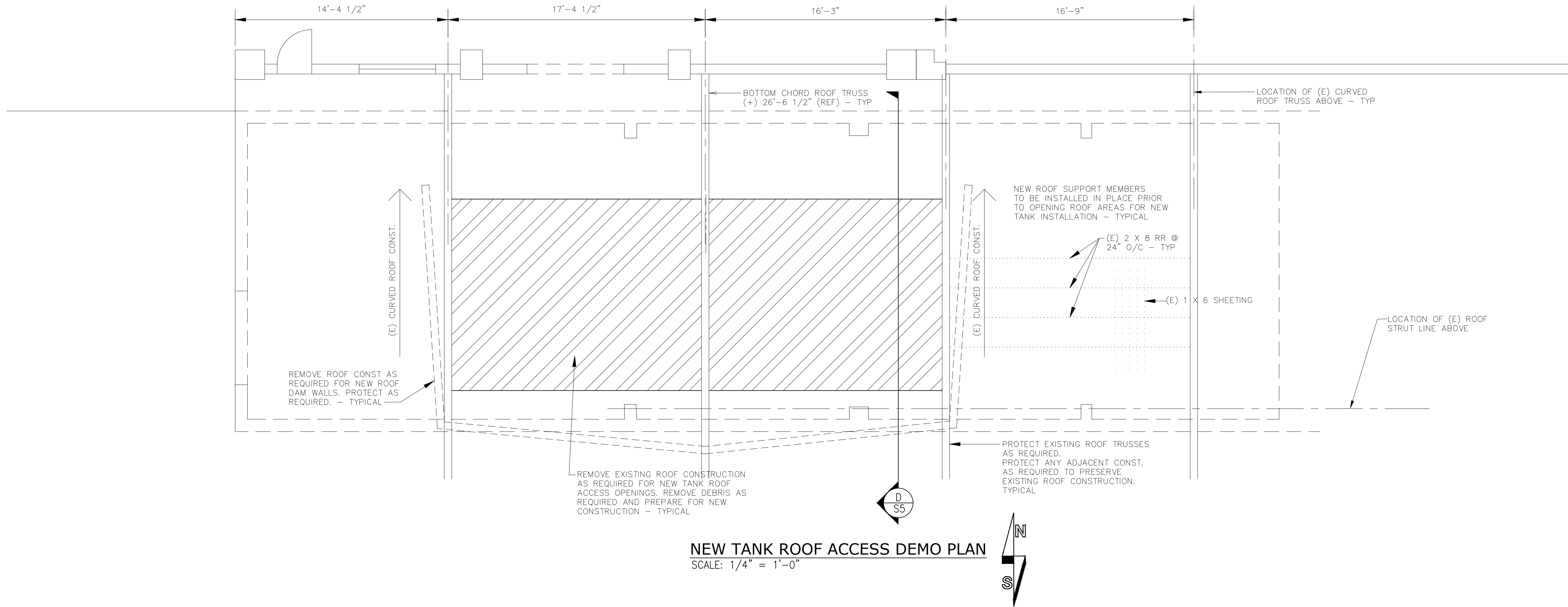
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DRAWN BY: C.H.  
DATE: 01-28-16  
SCALE: 1/4" = 1'-0"

**EXISTING CONCRETE TANK DECK & FLOOR PLAN DEMOLITION**

**S2**



NEW TANK ROOF ACCESS DEMO PLAN  
SCALE: 1/4" = 1'-0"

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UPLAND, CA 91786-3586  
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FAX (909) 931-5072

REGISTERED PROFESSIONAL ENGINEER  
JEFFREY C. VAN DAM  
No. 39986  
Exp. 12/31/17  
CIVIL  
STATE OF CALIFORNIA

SEAL

REVISIONS	
NO.	DATE

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DRAWN BY: C.H

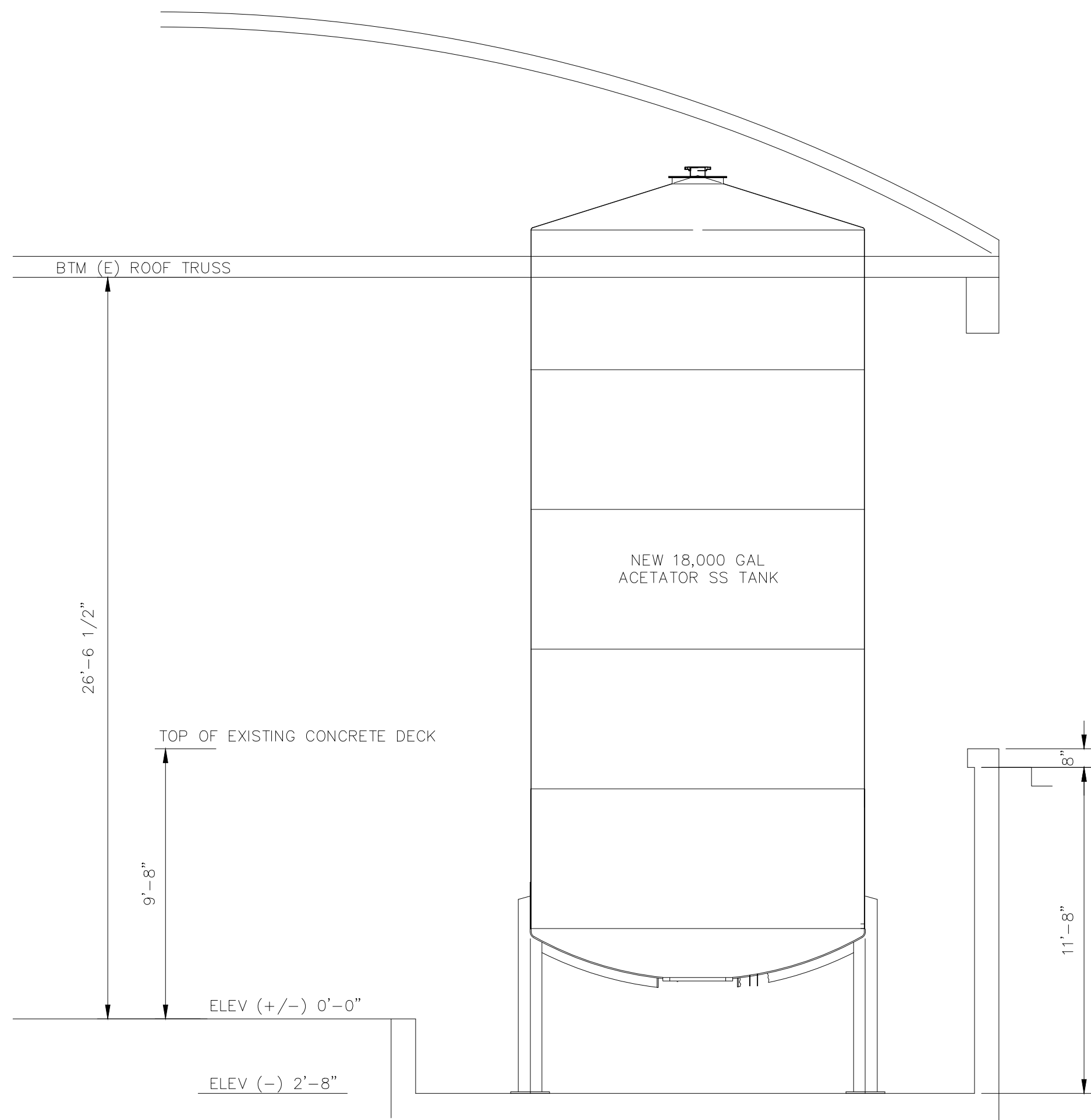
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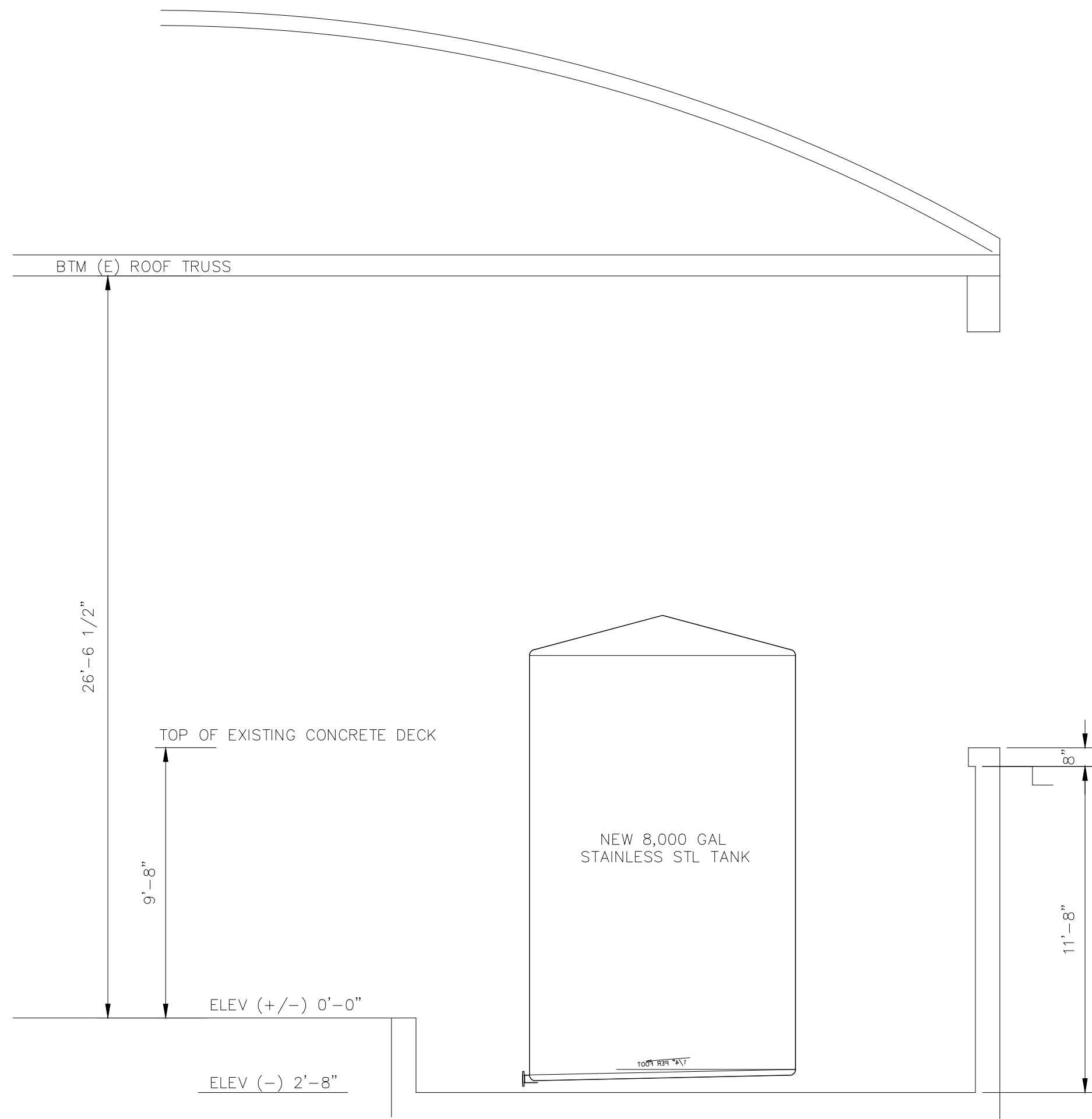
NEW STN STL  
TANK ROOF  
OPENING  
PLAN DEMOLITION

S2.1

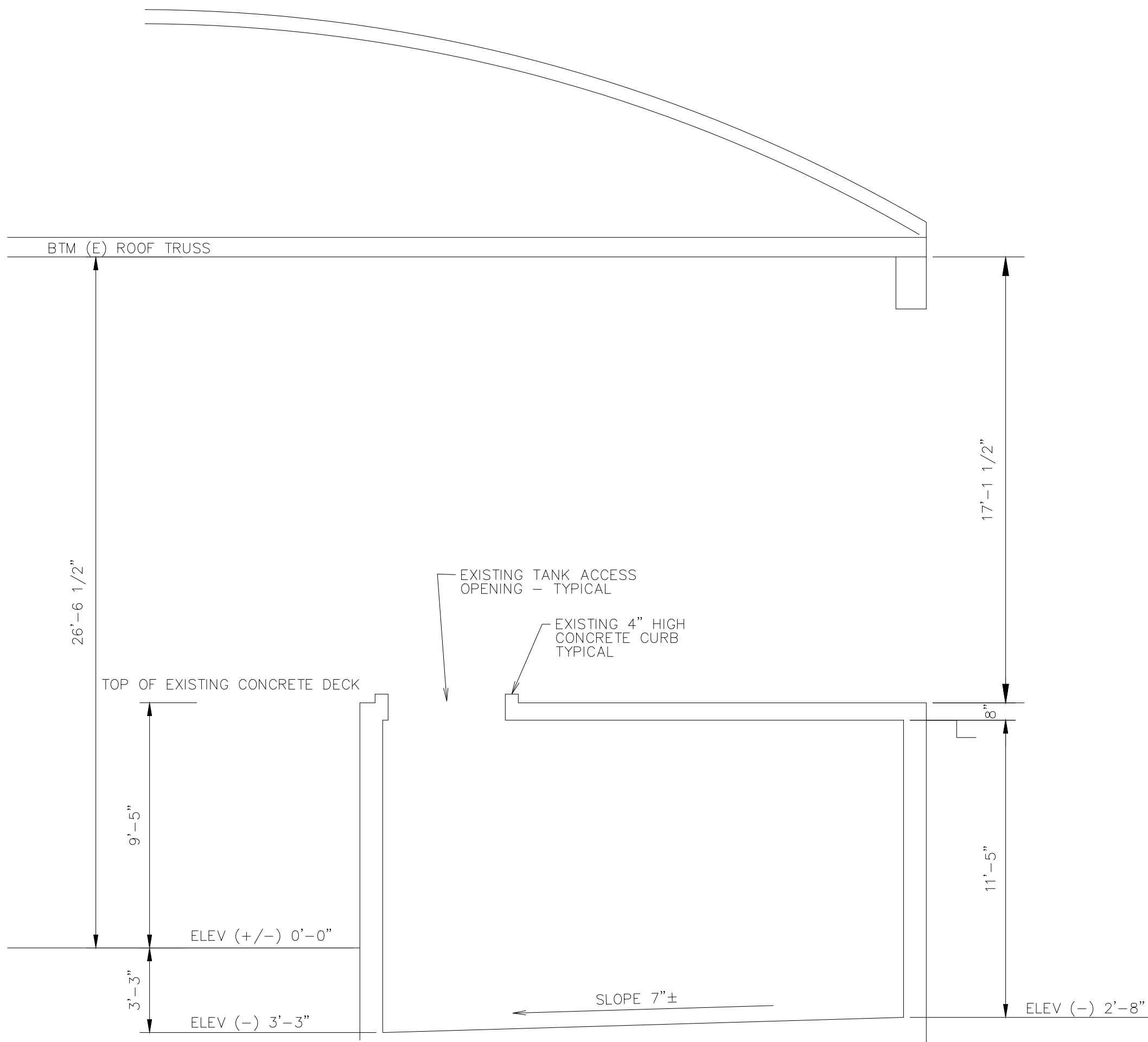
SHEET 6 OF 18



X  
S3



Y  
S3



Z  
S3

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REVISIONS		DESCRIPTION
NO.	DATE	

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10037 8TH ST.  
RANCHO CUCAMONGA, CA

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DRAWN BY: C/H

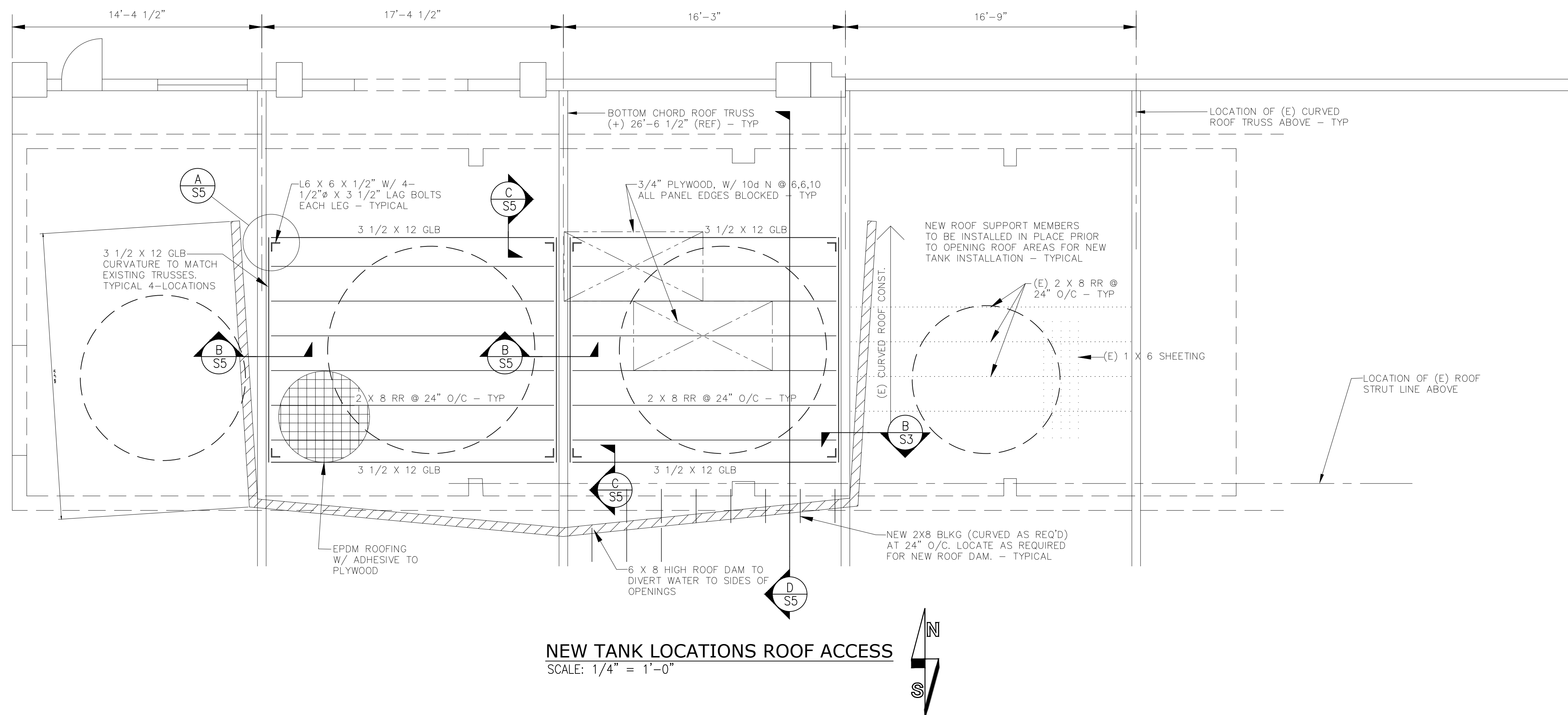
DATE: 01-28-16

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

NEW STN STL  
TANK SECTIONS  
& SECTIONS

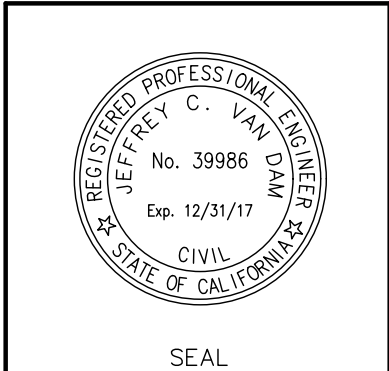
S3

SHEET 7 OF 18



SHEET 8 OF 18





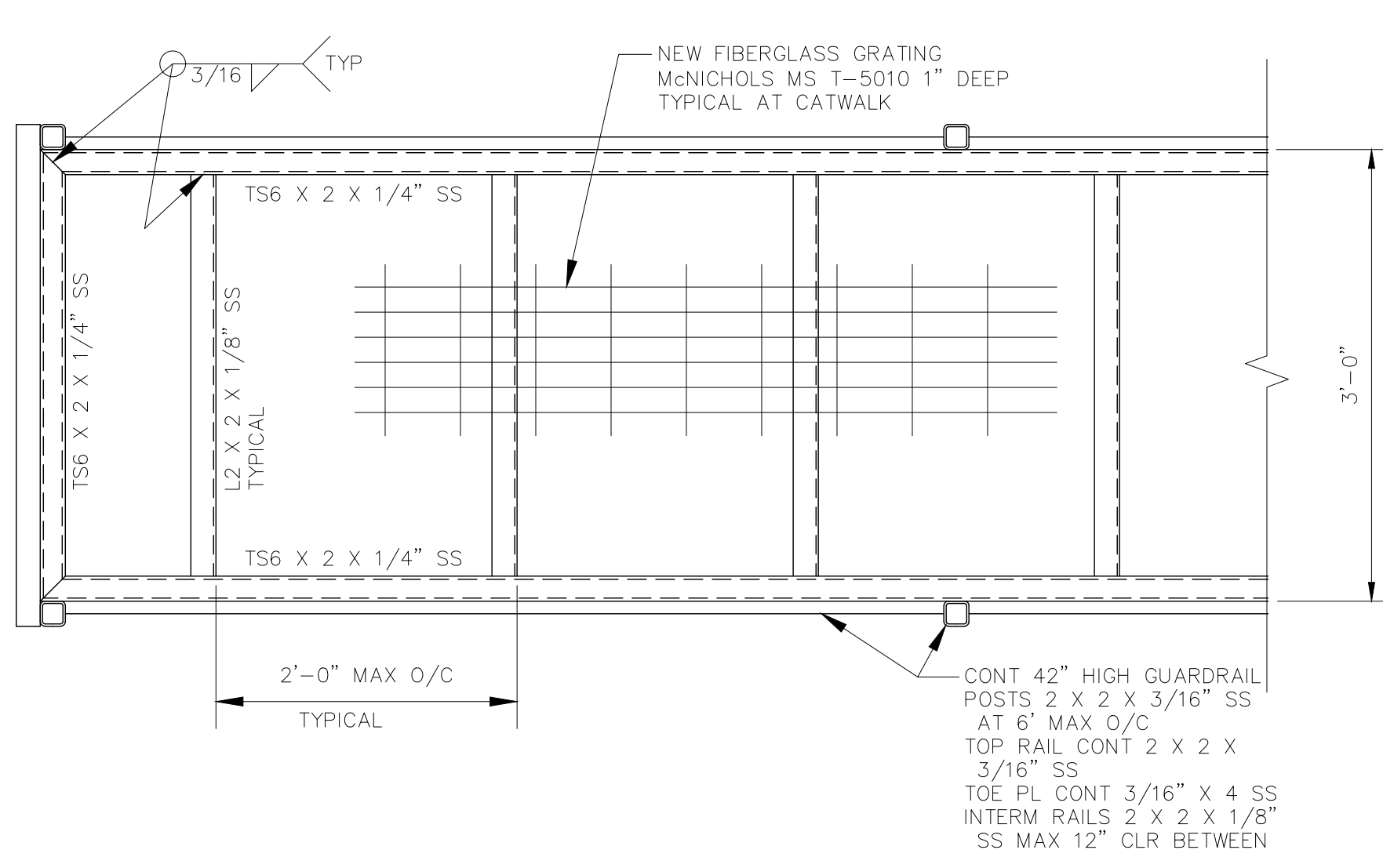
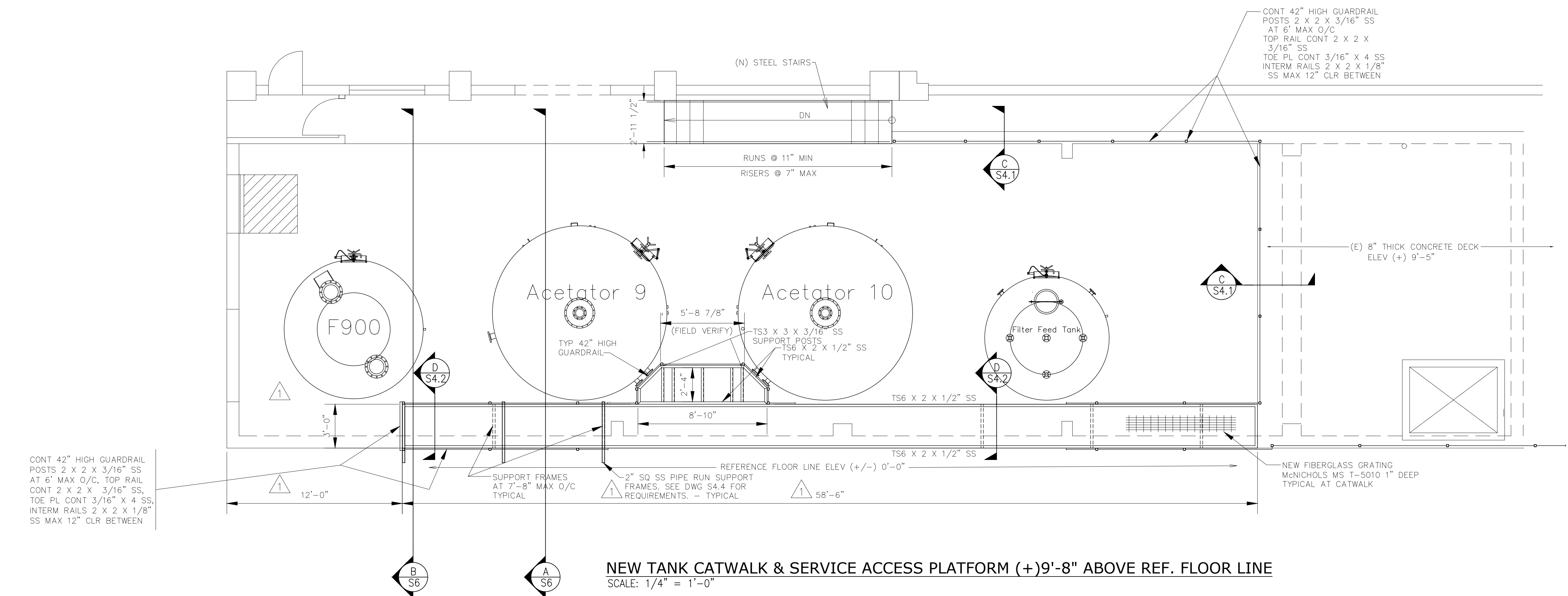
REVISIONS		DESCRIPTION
NO.	DATE	
1	08-04-16	MEZZ LGTH, WSC

REWORK OF (E) CONCRETE TANKS  
MIZKAN AMERICAS, INC.  
10037 8TH ST.  
RANCHO CUCAMONGA, CA

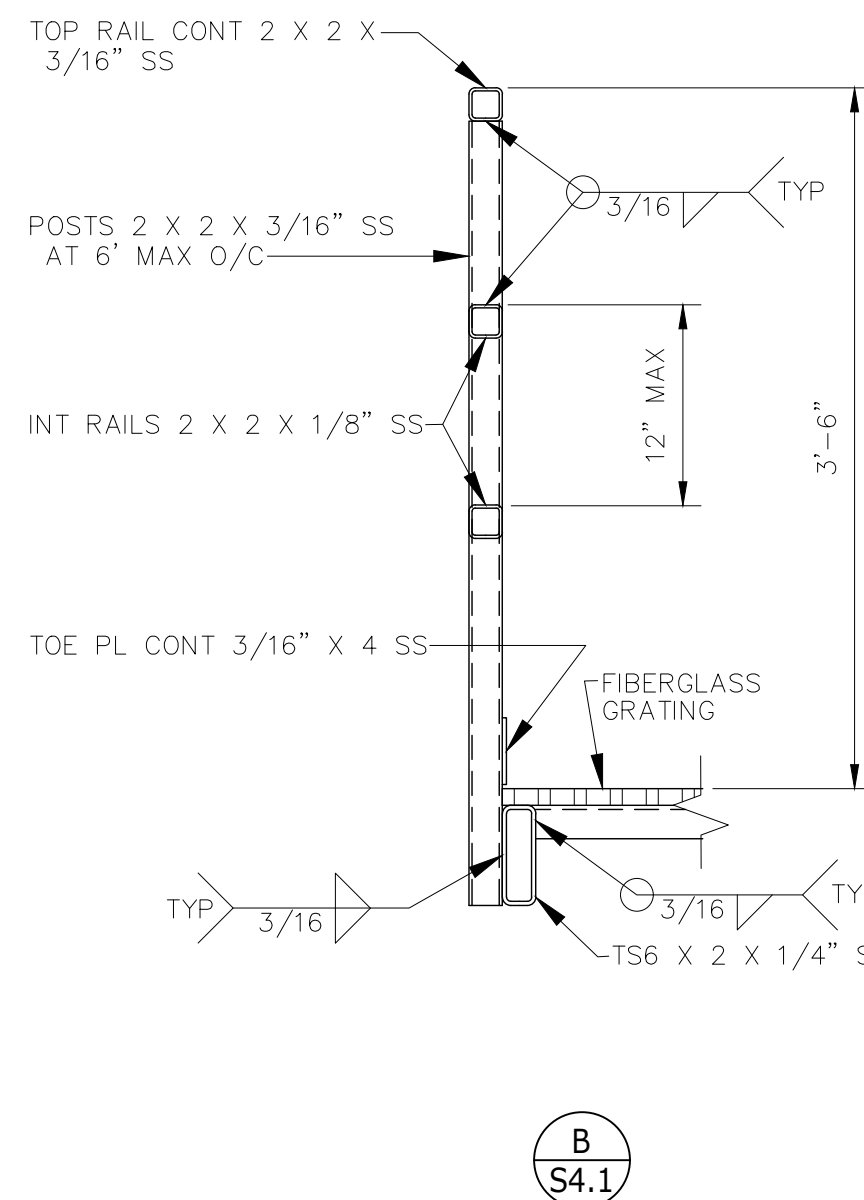
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CONSULTING CIVIL ENGINEERS, IS IN VIOLATION  
UNAUTHORIZED REPROD OF THESE PLANS BY A THIRD  
PARTY. THE THIRD PARTY SHALL HOLD  
JEFFREY C. VAN DAM HARMLESS.

DRAWN BY: C.H  
DATE: 05-27-16  
SCALE: 1/4" = 1'-0"

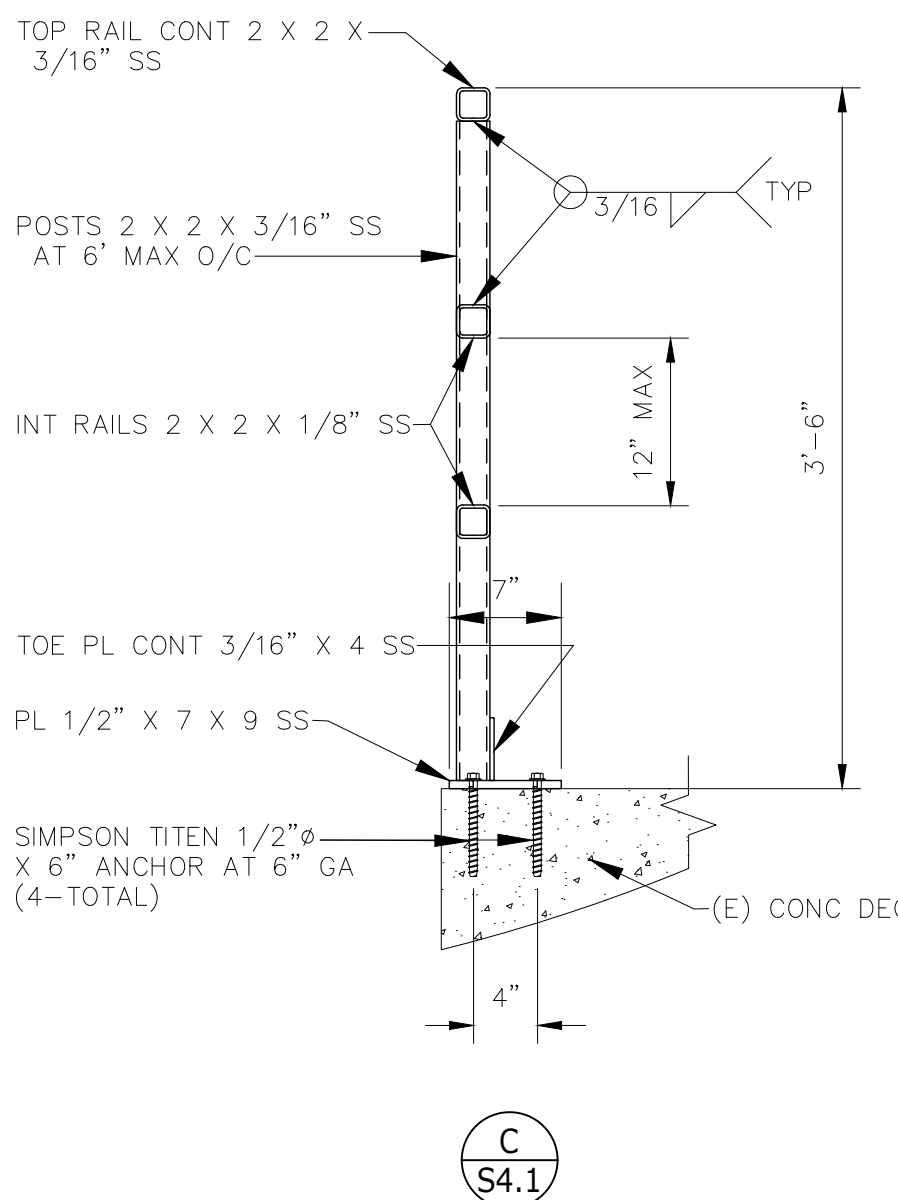
NEW STN STL  
TANK CATWALK  
& SERVICE ACCESS  
FRAMING PLAN



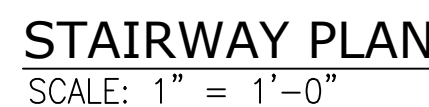
A ENLARGED PARTIAL CATWALK FRAMING PLAN  
S4.1 SCALE: 1" = 1'-0"



B S4.1



C S4.1



**VAN DAM ENGINEERING**  
CONSULTING CIVIL ENGINEERS  
1844 W. 11TH STREET, SUITE D  
UPLAND, CA 91786-3586  
\_\_\_\_\_  
(909) 931-5070  
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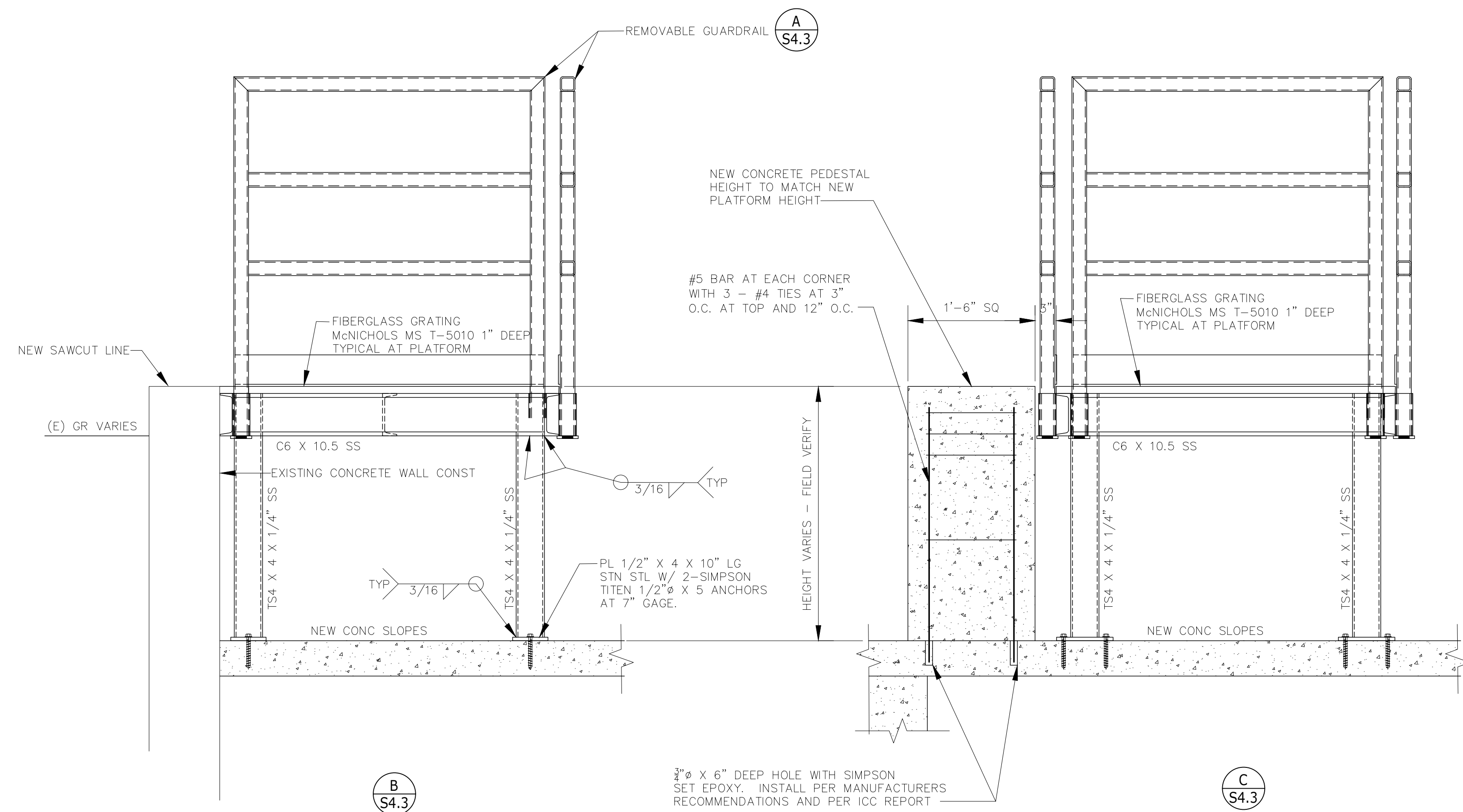
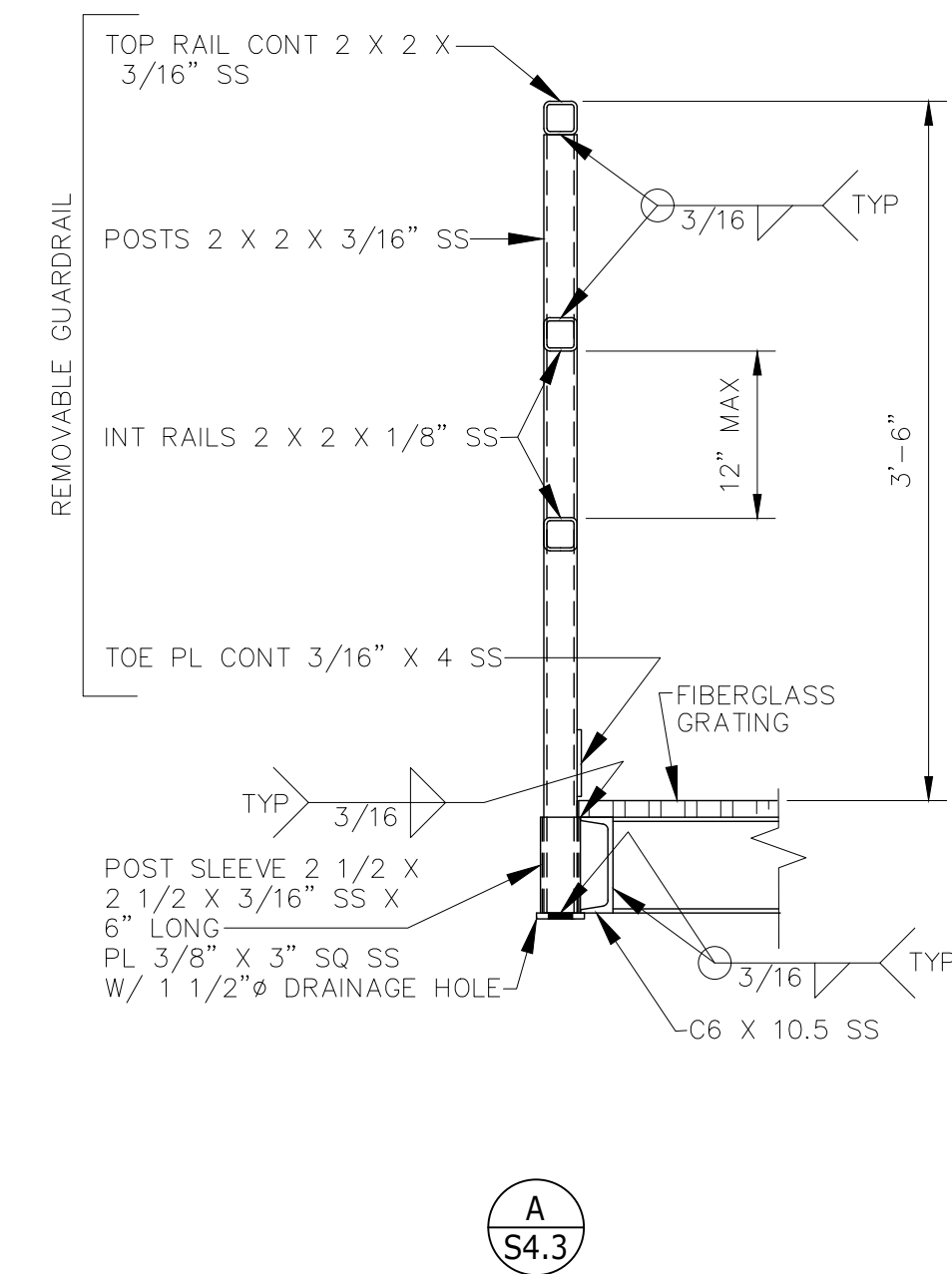
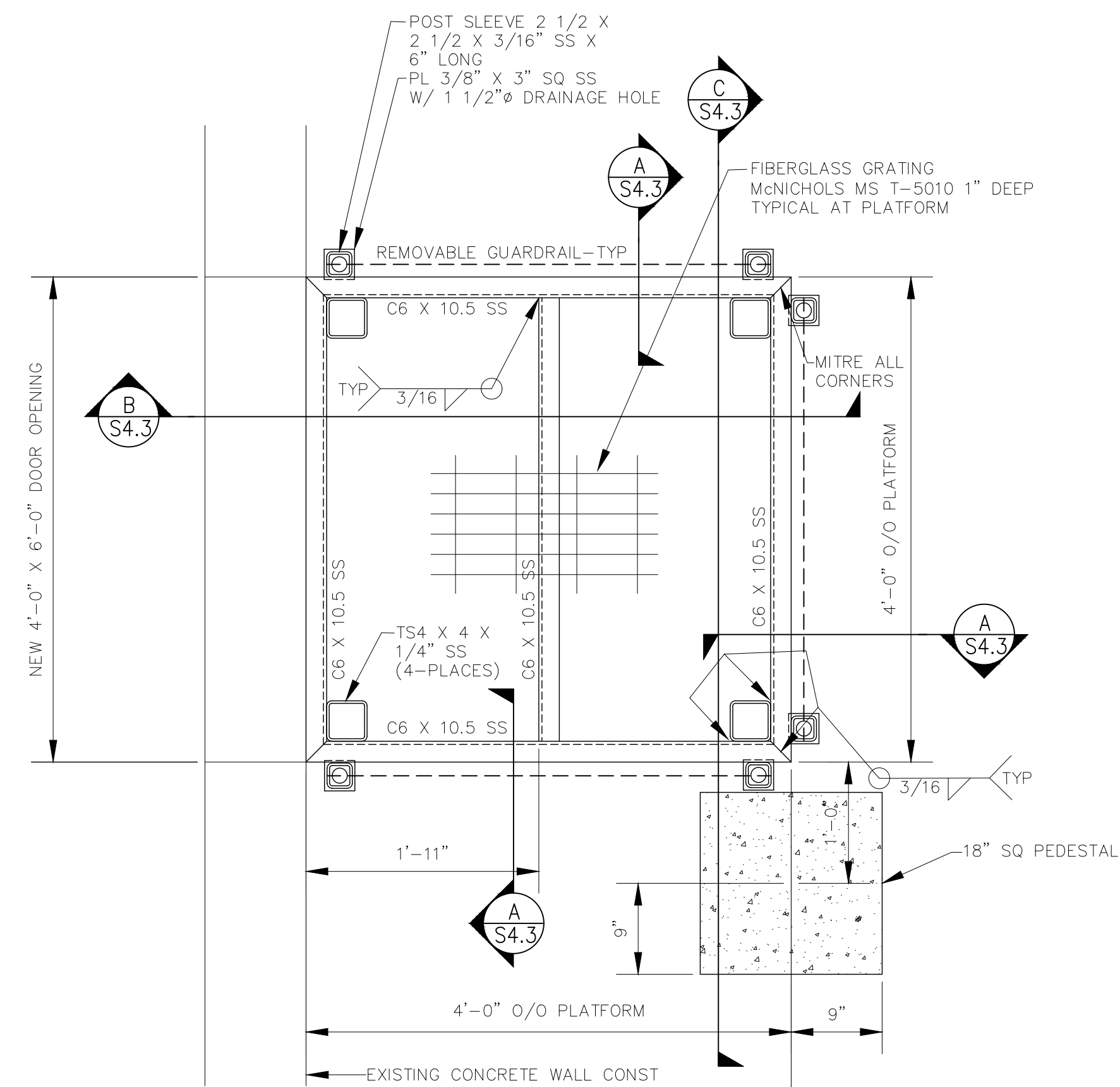
DRAWN BY: CJH

DATE: 05-27-16

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

NEW STN STL  
TANK CATWALK  
& SERVICE ACCESS  
SECT/DETAILS

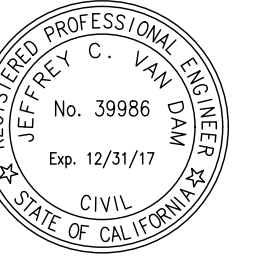
## S4.2



**VAN DAM ENGINEERING**  
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UPLAND, CA 91786-3586  

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(909) 931-5070  
FAX (909) 931-5072

[illegible]

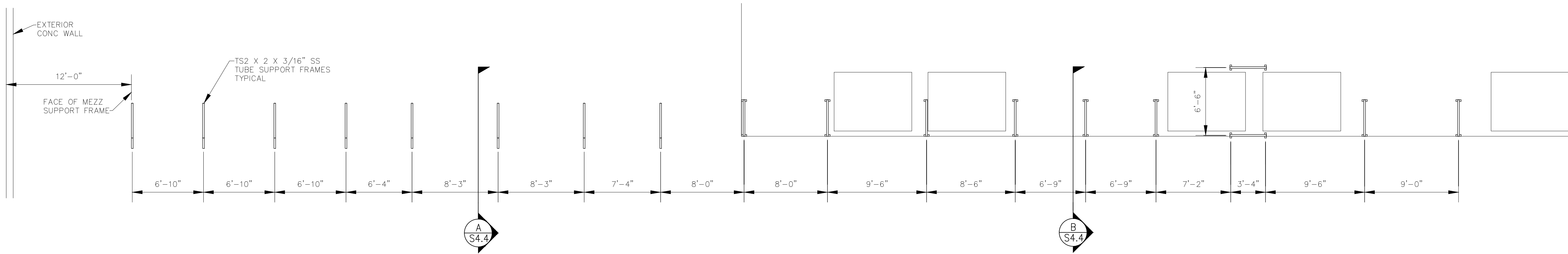
REWORK OF (E) CONCRETE PANELS  
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RANCHO CUCAMONGA, CA

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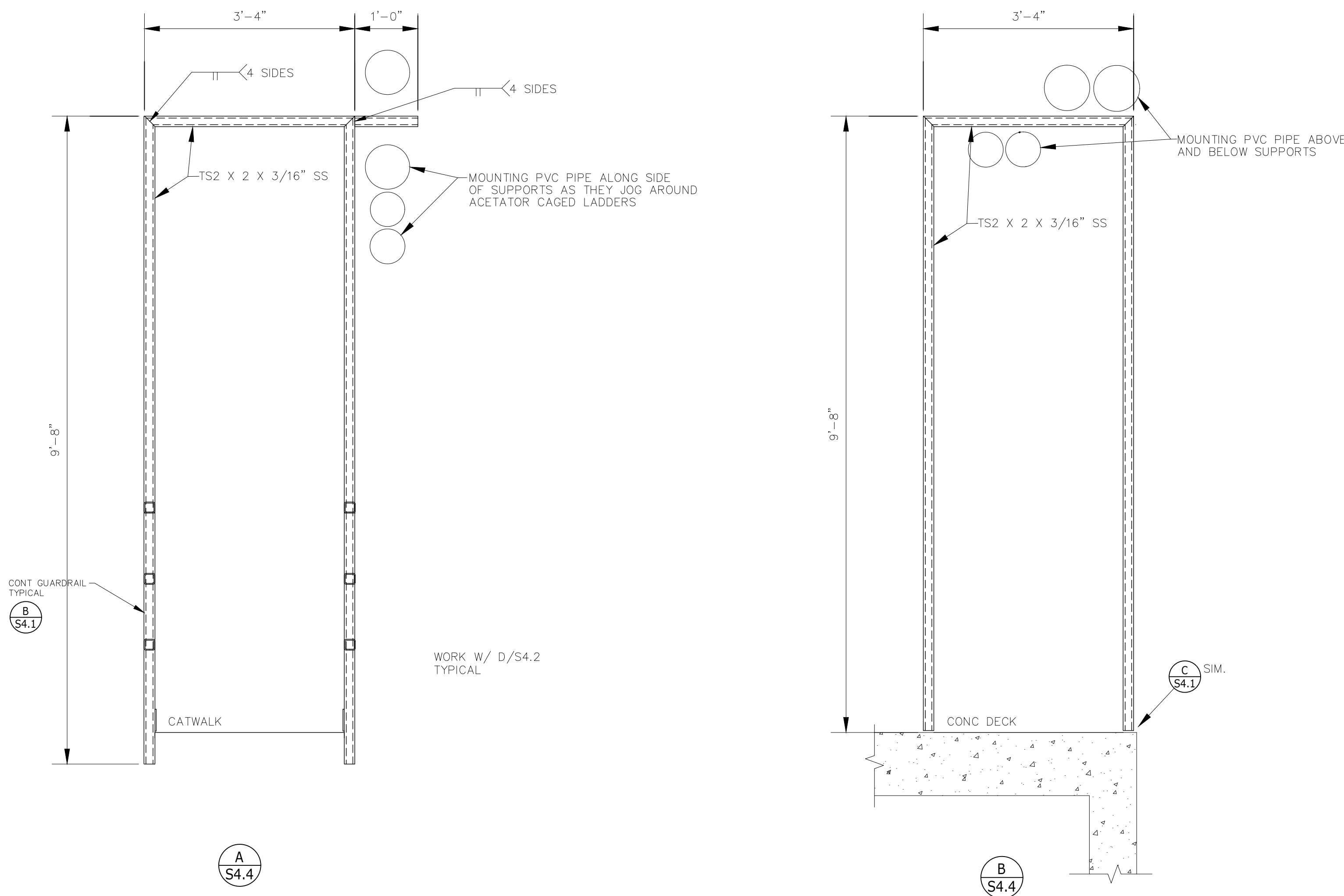
RAWN BY: CJH  
DATE: 05-27-16  
SCALE: 1/4" = 1'-0"

## NEW STN STL SERVICE MAINTENANCE PLATFORM

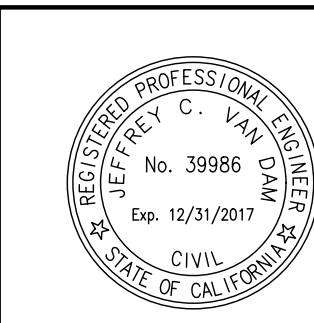
# S4.3



PIPE RACK PLAN  
SCALE: 3/16" = 1'-0"



VAN DAM ENGINEERING  
CONSULTING CIVIL ENGINEERS  
1844 W. 11TH STREET, SUITE D  
OAKLAND, CA 94612-3586  
(909) 931-5070  
E-MAIL: jef@vandamengineering.com



REVISIONS		DESCRIPTION
NO.	DATE	NEW SHEET
1	08-04-16	

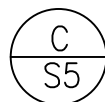
REWORK OF (E) CONCRETE TANKS  
MIZKAN AMERICAS, INC.  
10037 8TH ST.  
RANCHO CUCAMONGA, CA

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DRAWN BY: C.H.  
DATE: 08-04-16  
SCALE: 3/16" = 1'-0"

PIPE RUN  
SUPPORT PLAN  
SECTIONS/DETAILS

S4.4



- NEW ROOF OPENING COVER IS DESIGNED TO BE REMOVABLE.
- CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND WHAT IS SHOWN ON THE DRAWINGS.
- 2 X LUMBER SHALL BE DOUGLAS FIR NO. 1.
- GLU LAM BEAMS SHALL BE DOUGLAS FIR 24V-V8. GLU LAM BEAMS TO HAVE CURVATURE TO MATCH EXISTING ROOF. CONTRACTOR SHALL FIELD MEASURE CURVATURE TO PROVIDE TO GLU LAM MANUFACTURER.
- BOLTS SHALL BE GALVANIZED BOLTS CONFORMING TO ASTM A307.
- PRIOR TO INSTALLING NEW OPENING COVER INSTALL REMOVABLE SEALANT AT NEW PLYWOOD TO EXISTING ROOF.
- NEW ROOFING SHALL BE APPLIED TO NEW OPENING COVER SUCH THAT ALL WOOD IS COVERED AND PROTECTED FROM WEATHER.



SEAL

[illegible]

REWORK OF (E) CONCRETE TANKS  
MIZKAN AMERICAS, INC.  
10037 8TH ST.  
RANCHO CUCAMONGA, CA

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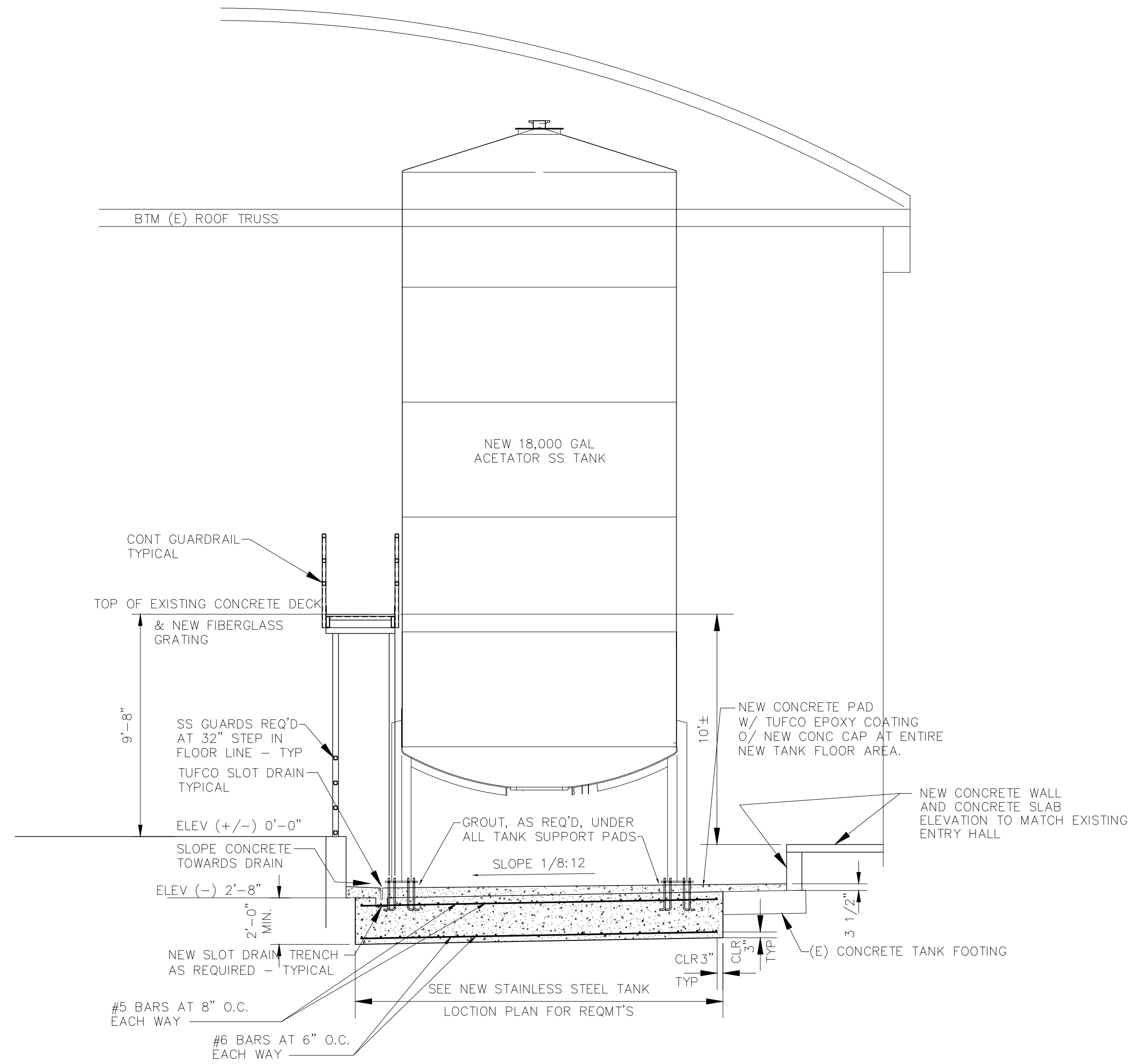
DRAWN BY: G.H

DATE: 01-28-16

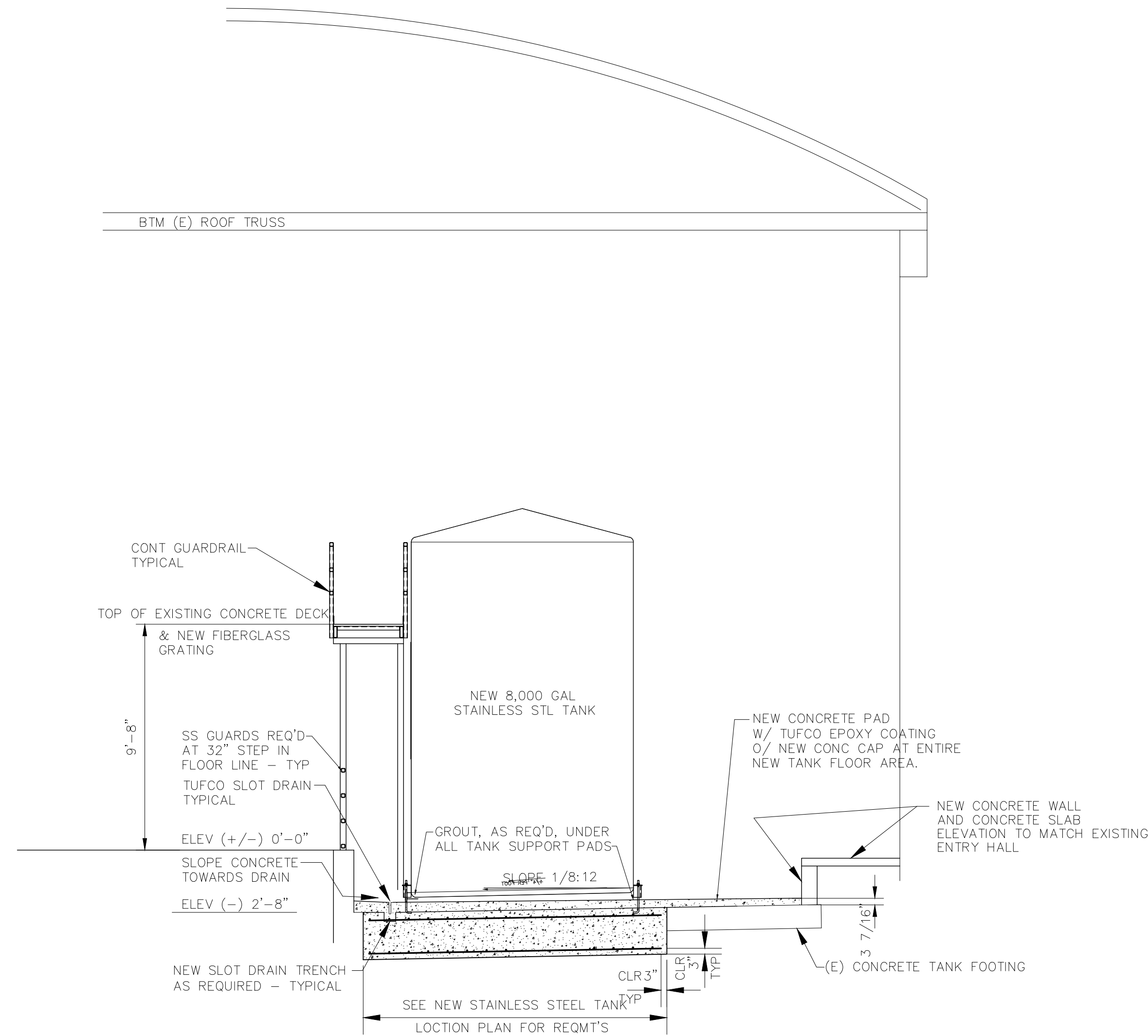
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NEW STN STL  
TANK PLAN &  
ROOF FRAMING  
PLAN

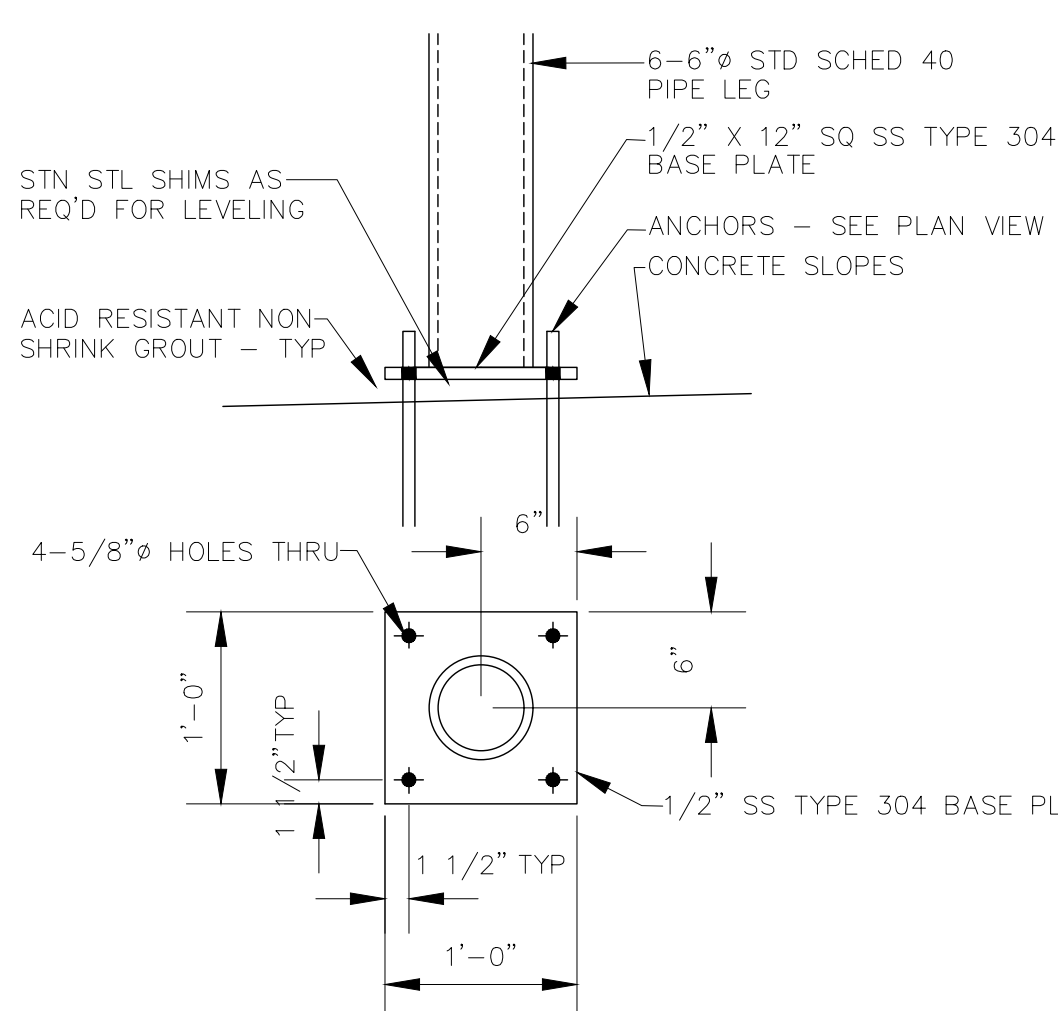
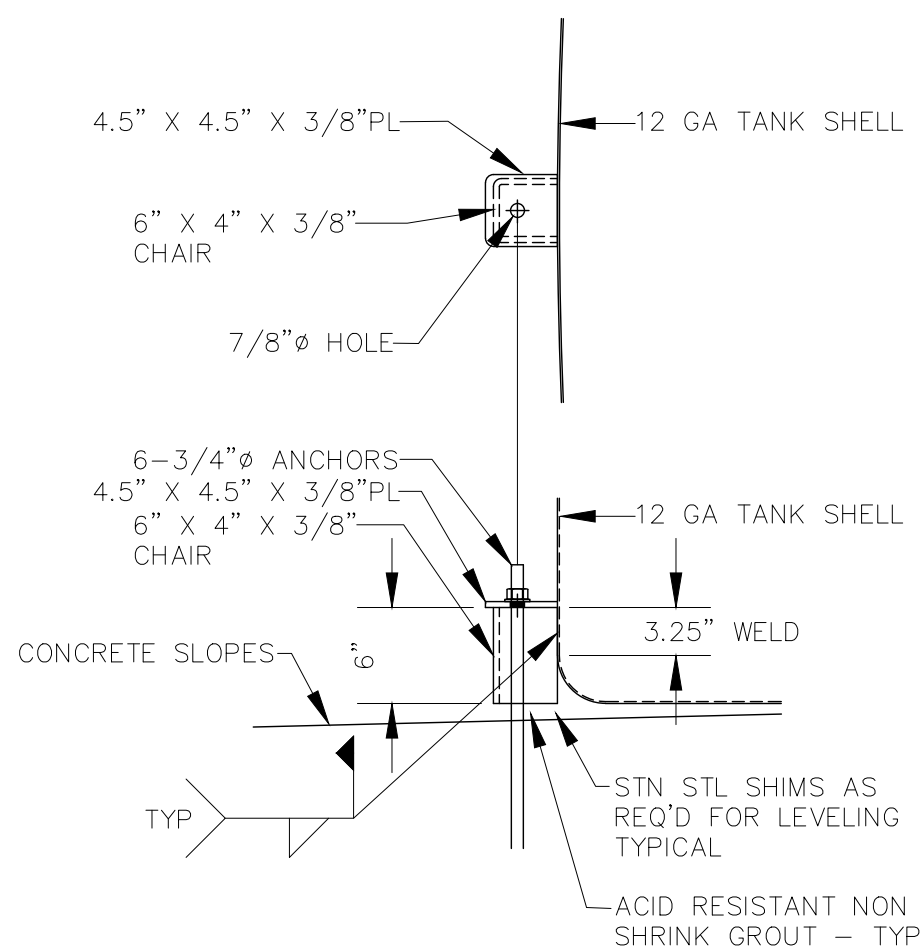
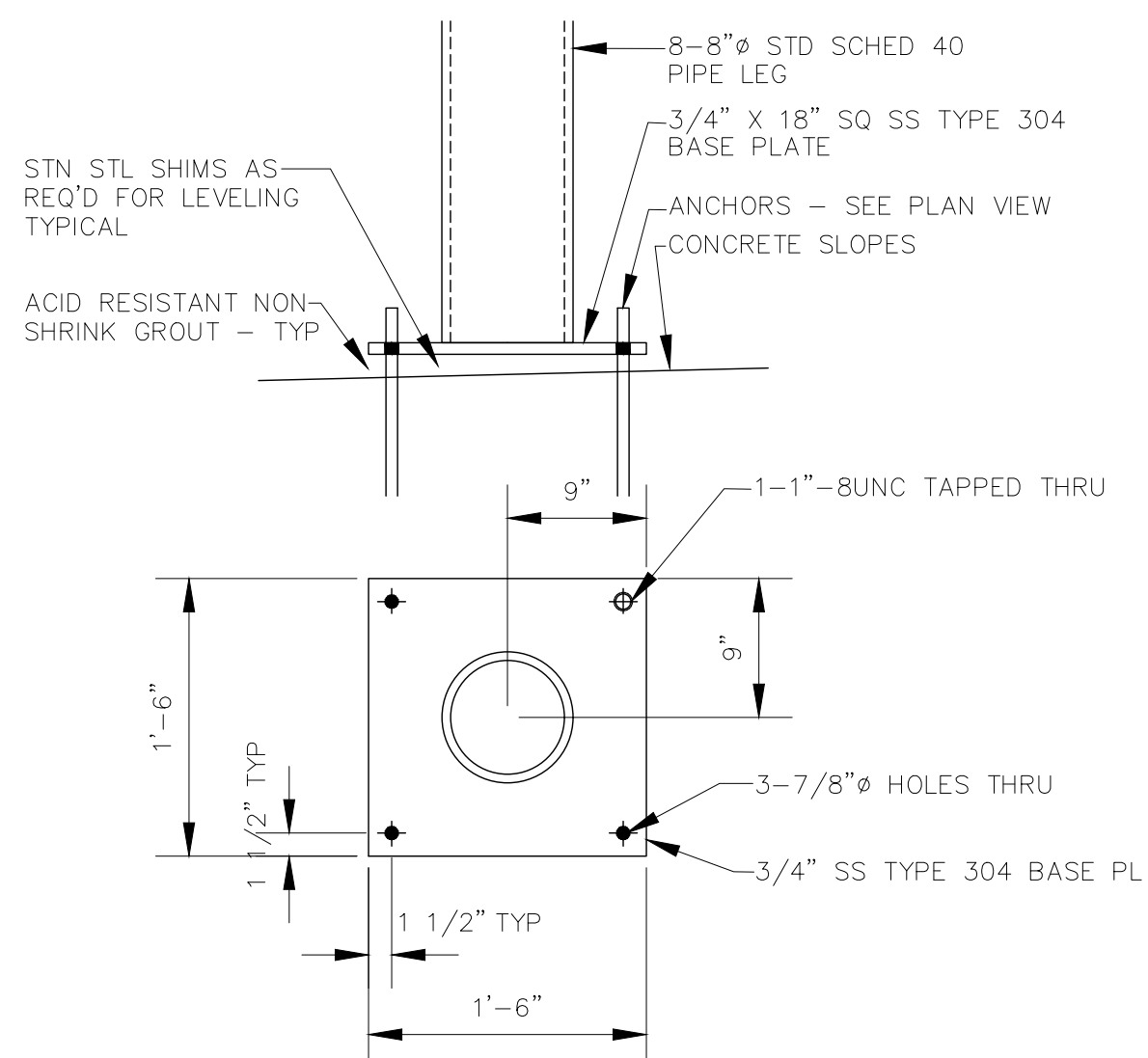
# S5



A  
S6



B  
S6



**VAN DAM ENGINEERING**  
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1844 W. 11TH STREET, SUITE D  
UPLAND, CA 91786-3586  
(909) 931-5070  
FAX (909) 931-5072



REVISIONS		DESCRIPTION	
NO.	DATE	DESCRIPTION	

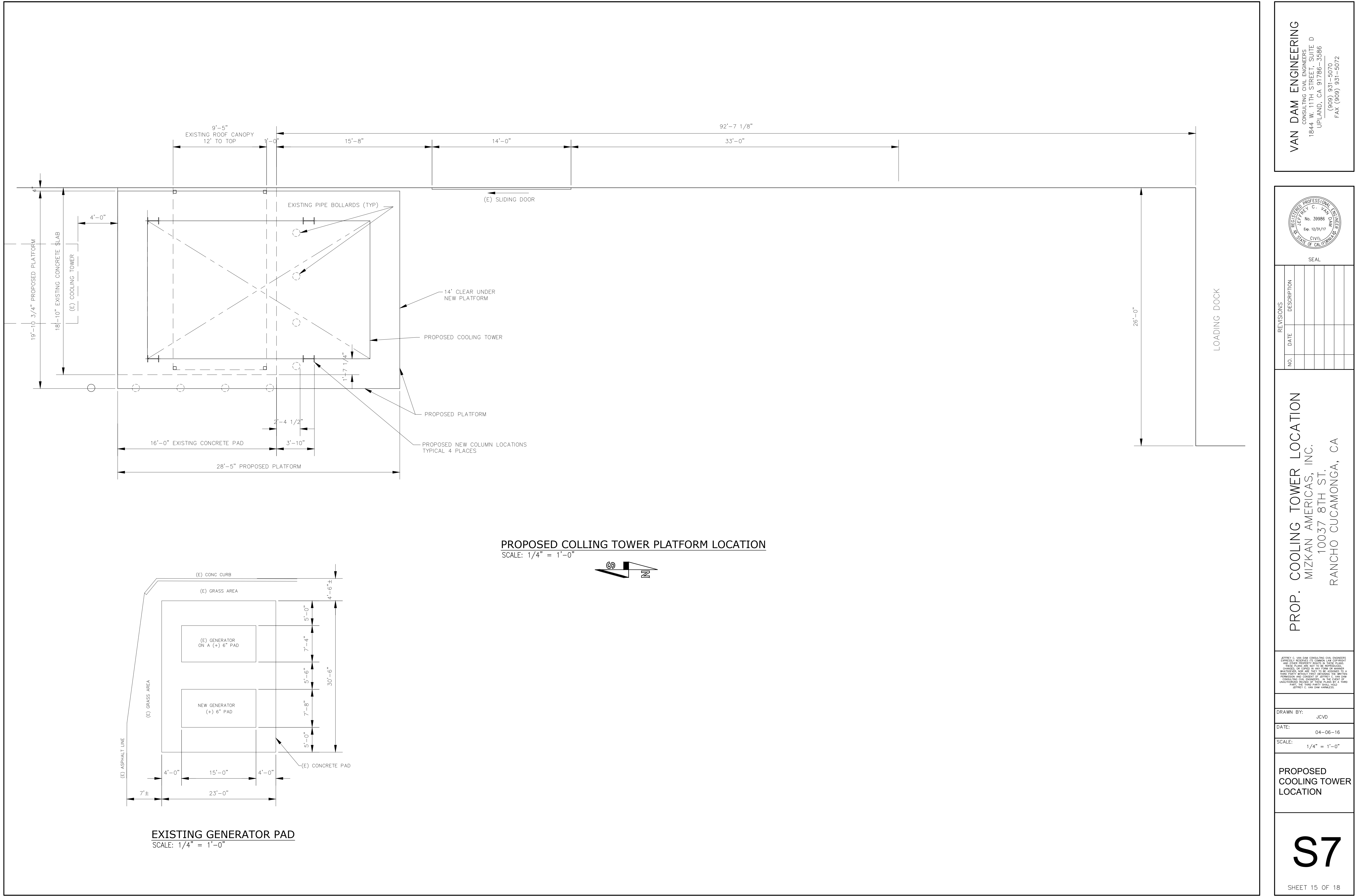
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DATE: 01-28-16  
SCALE: 1/4" = 1'-0"

**NEW STN STL TANK PLAN**

**S6**  
SHEET 14 OF 18



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REVISIONS	
NO.	DESCRIPTION

**PROP. COOLING TOWER LOCATION**  
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RANCHO CUCAMONGA, CA

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PARTY IS THE THIRD PARTY'S SOLE RESPONSIBILITY.  
JEFFREY C. VAN DAM ENGINEERING, INC.

DRAWN BY: JCVD

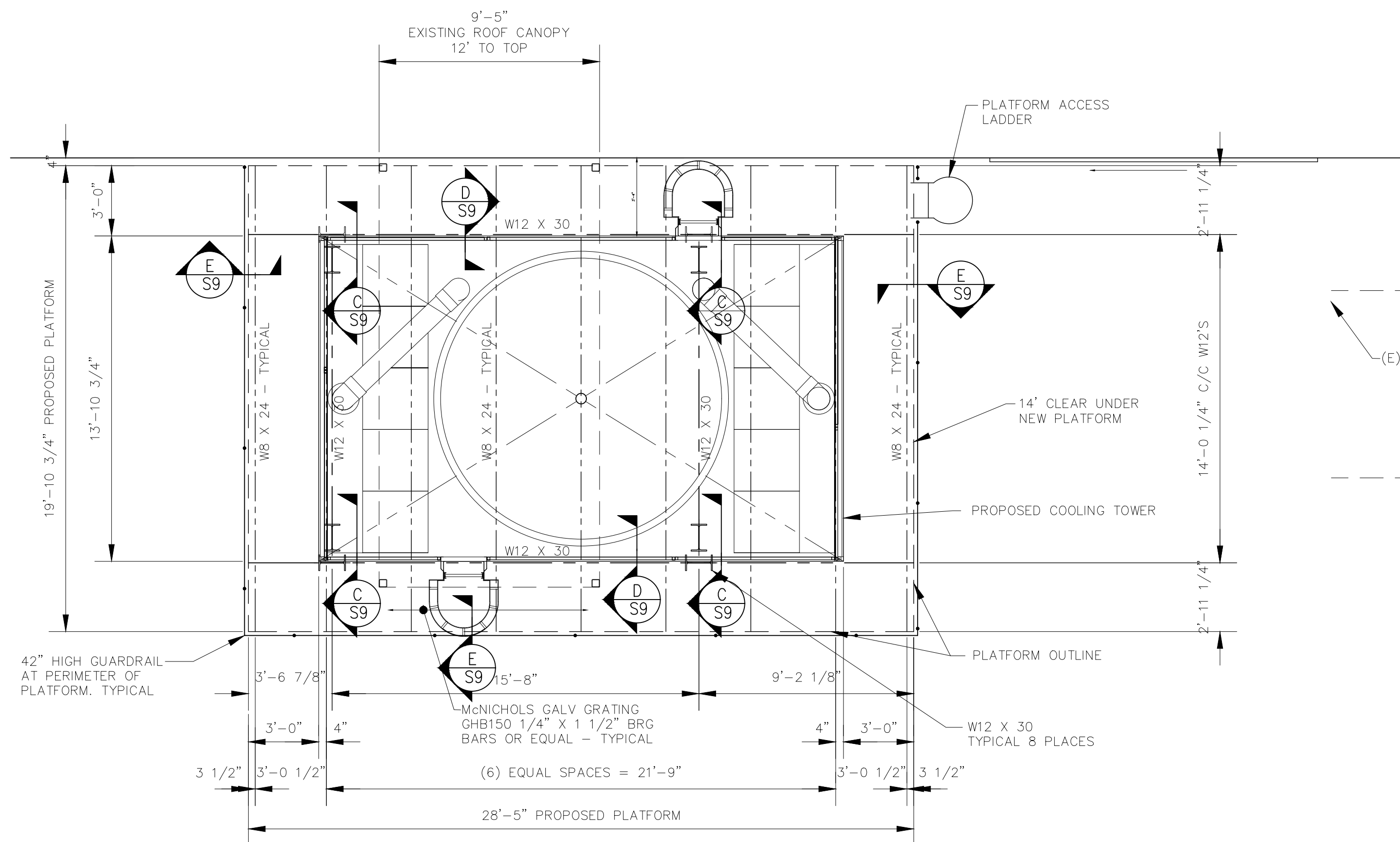
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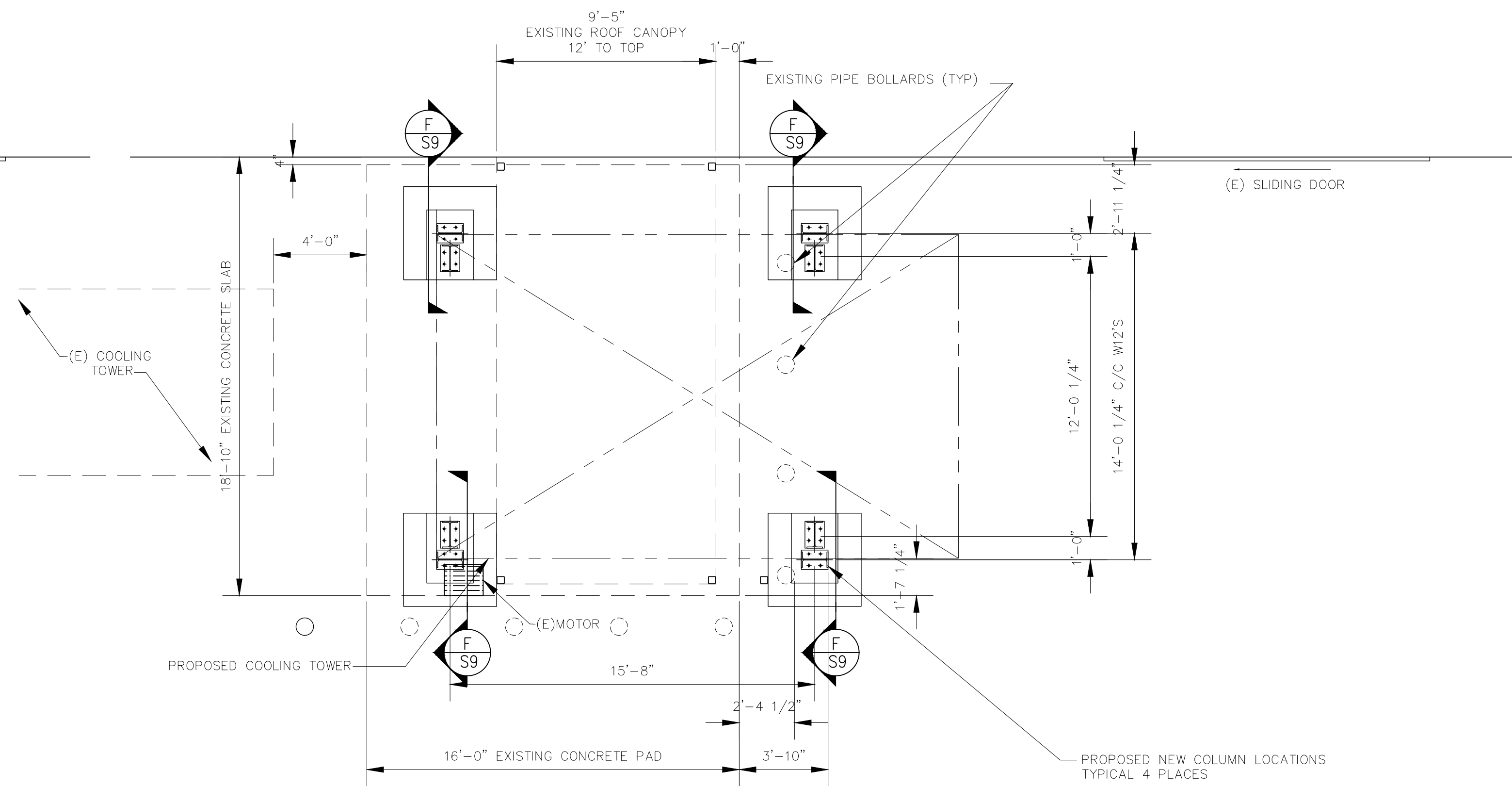
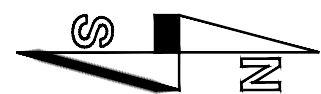
**PROPOSED  
COOLING TOWER  
LOCATION**

**S7**

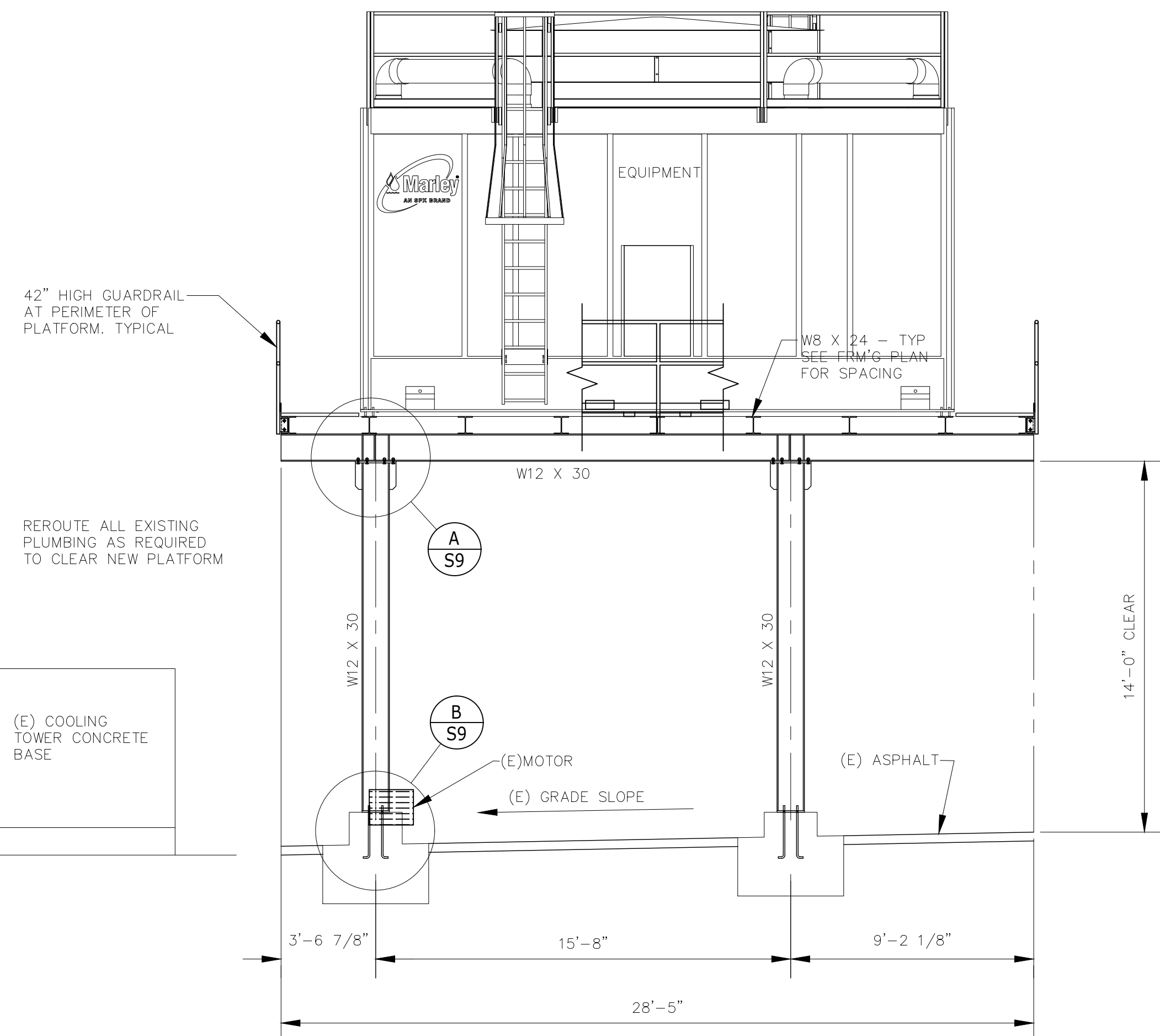
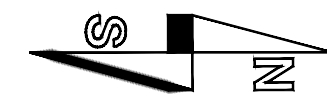
SHEET 15 OF 18



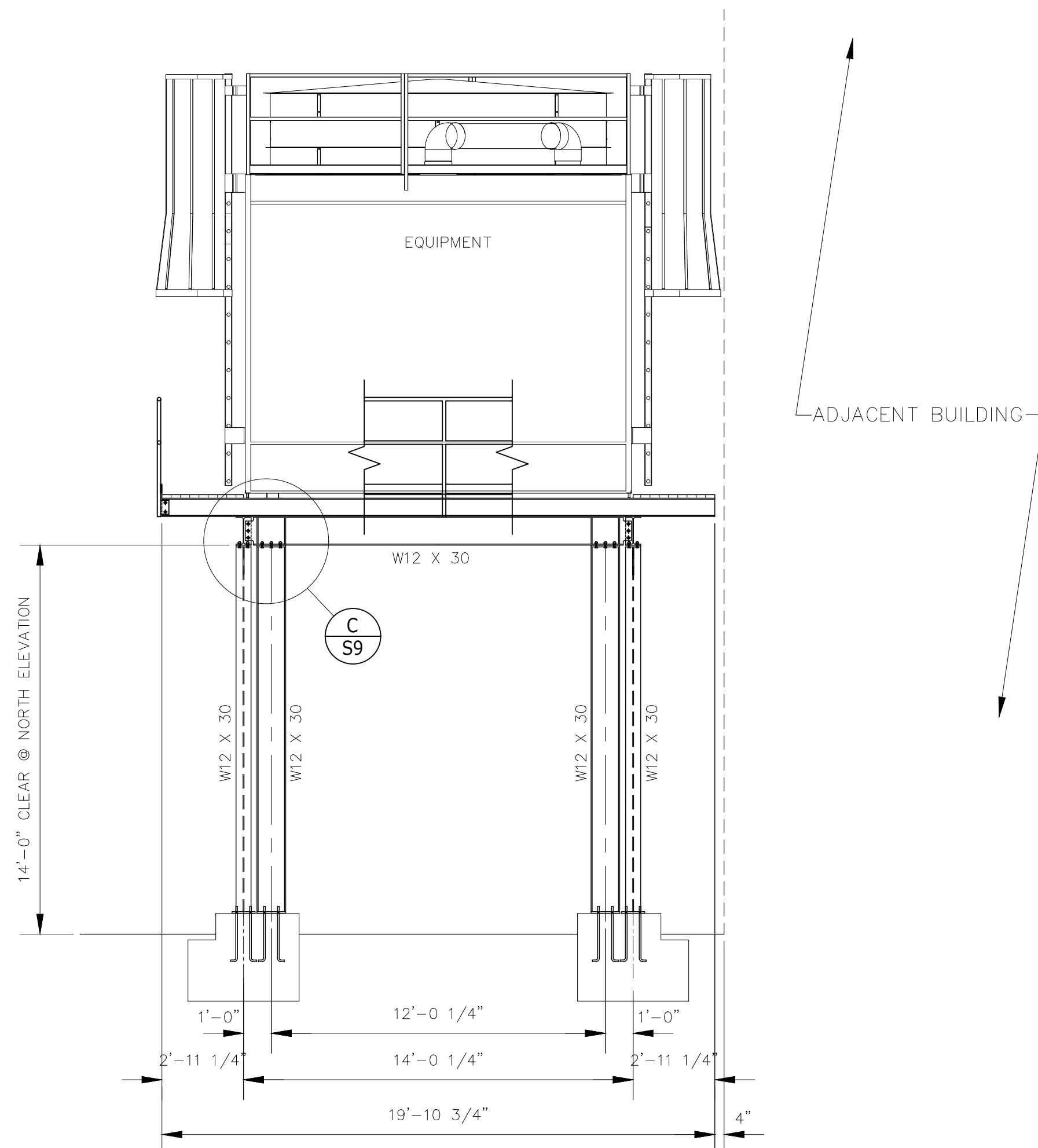
**COOLING TOWER PLATFORM FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**COOLING TOWER PLATFORM FLOOR/FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

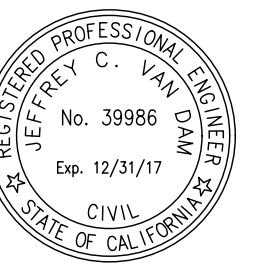


**COOLING TOWER PLATFORM EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**COOLING TOWER PLATFORM NORTHTH ELEVATION (AS SHOWN)**  
**COOLING TOWER PLATFORM SOUTH ELEVATION (OPPOSITE HAND)**  
SCALE: 1/4" = 1'-0"

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FAX (909) 931-5072



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NO.	REVISIONS		DATE	DESCRIPTION

**PROP. COOLING TOWER LOCATION**  
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DATE: 04-06-16

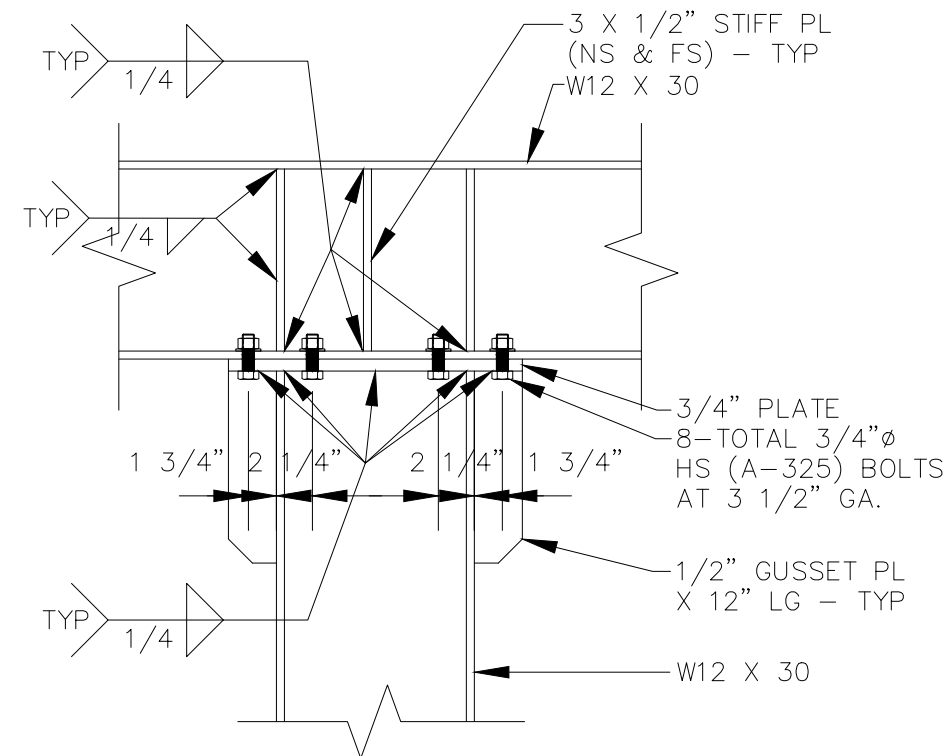
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**PROPOSED COOLING TOWER LOCATION**

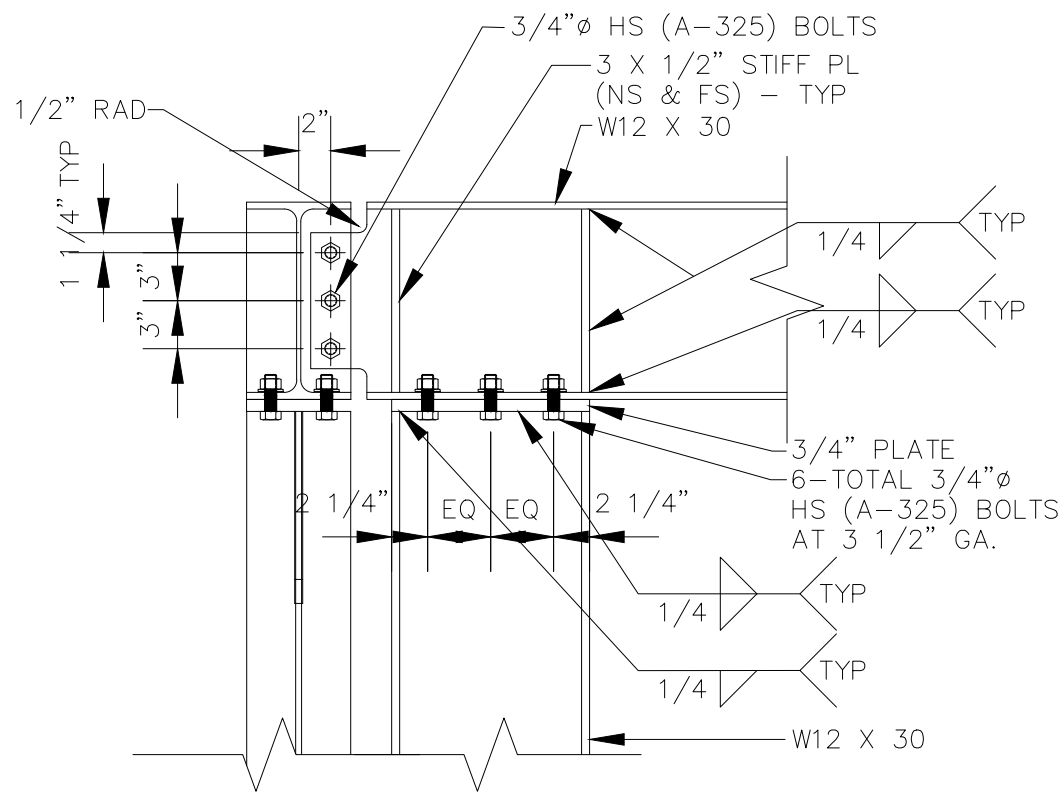
**S8**

SHEET 16 OF 18

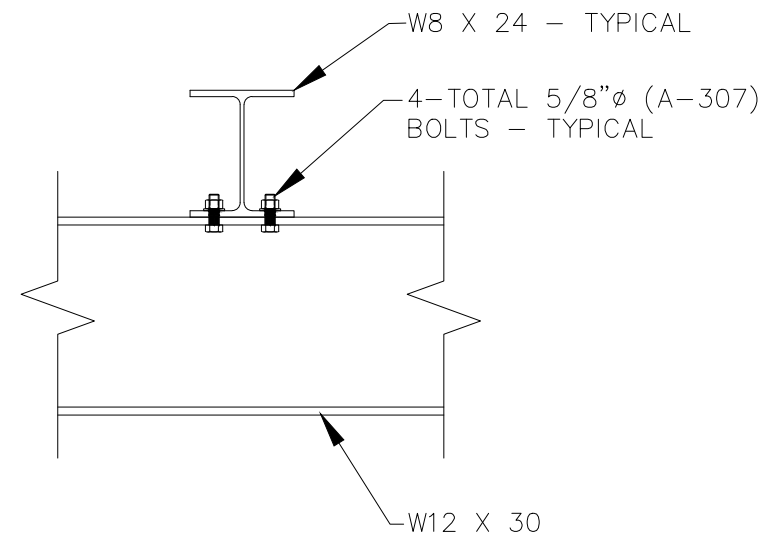




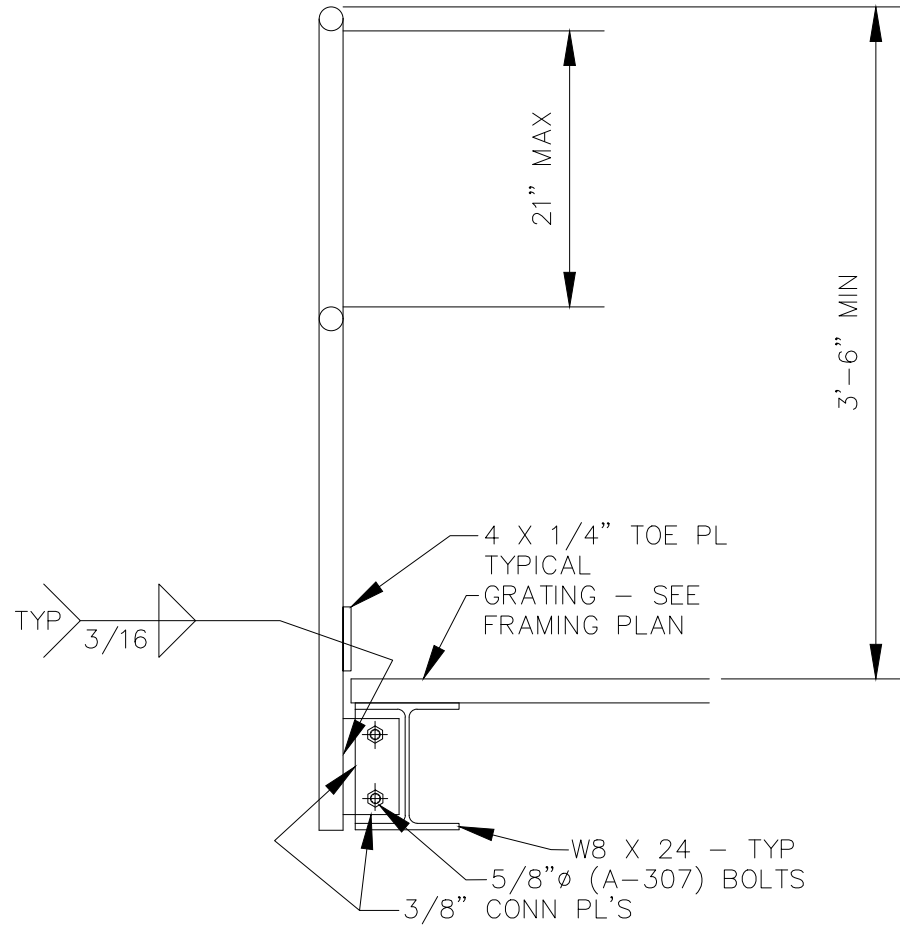
A  
S9



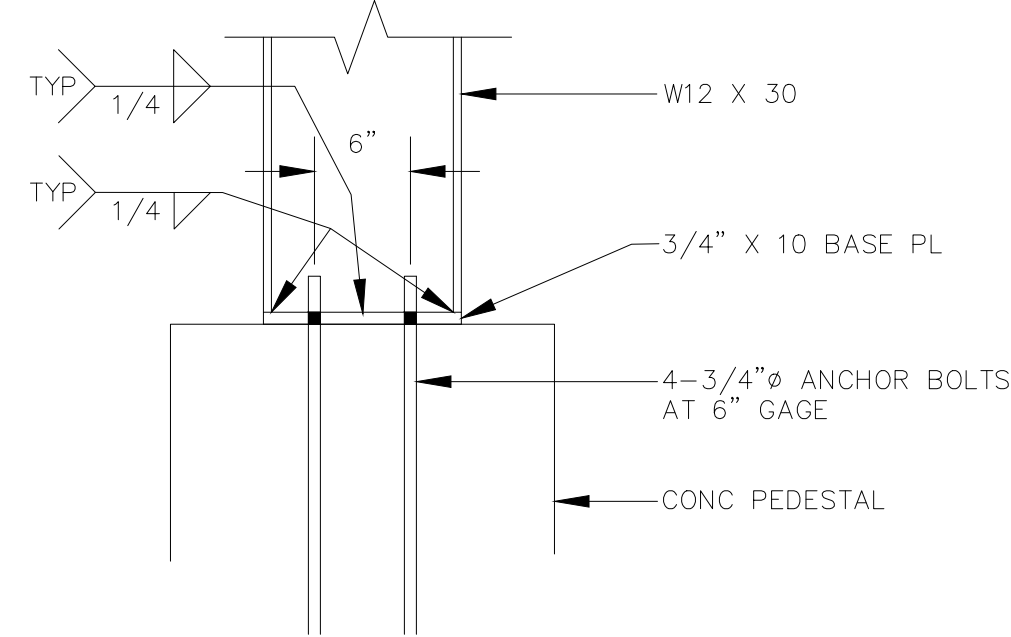
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S9



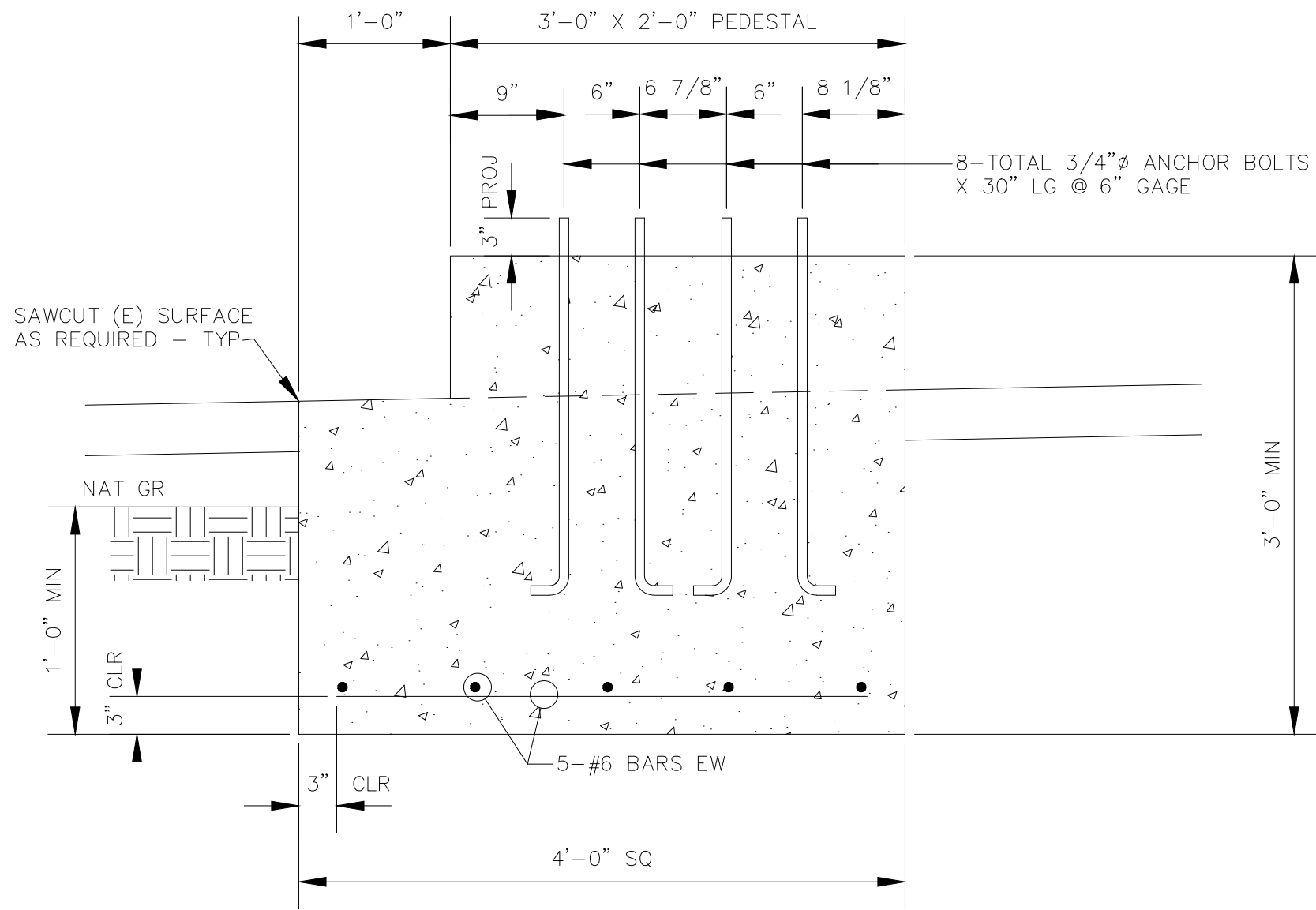
D  
S9



E  
S9



B  
S9



F  
S9

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CONSULTING CIVIL ENGINEERS  
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UPLAND, CA 91786-3586  
(909) 931-5070  
E-MAIL: jef@vandamengineering.com



SEAL

NO.	DATE	DESCRIPTION							

PROP. COOLING TOWER LOCATION  
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RANCHO CUCAMONGA, CA

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DRAWN BY: C.H.  
DATE: 04-06-16  
SCALE: 1" = 1'-0"

CONNECTION  
DETAILS &  
SECTIONS

S9

SHEET 17 OF 18

