

**AMENDMENT NUMBER ONE TO
PUBLIC WORKS AGREEMENT FOR
CITY PROJECT NO. 23-04
FIRE STATION NO. 4 – TRAINING FACILITY (SITE IMPROVEMENTS)**

This Amendment Number One (“Amendment”) is dated May 22, 2024, (“Effective Date”), by and between the CITY OF COSTA MESA, a municipal corporation (“City”) and Caliba, Inc., a California Corporation (“Contractor”).

WHEREAS, City and Contractor entered into an agreement on May 22, 2024 for to construct public improvements (the “Agreement”); and

WHEREAS, City and Contractor originally established an annual not-to-exceed amount of \$3,486,000; and

WHEREAS, City and Contractor agreed to reduce the scope of the work.

NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. The parties agree to the terms stated in Contract Changer Order No. 0001 attached hereto as Exhibit A, including the reduction of the contract amount to \$2,230,688.
2. All terms not defined herein shall have the same meaning and use as set forth in the Agreement, as amended.
3. All other terms, conditions, and provisions of the Agreement, as amended, shall remain in full force and effect.
4. This Amendment may be executed in one or more counterparts, each of which shall be deemed an original. All counterparts shall be construed together and shall constitute one agreement.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by and through their respective authorized officers, as of the date first above written.

CONTRACTOR



Signature

Date: _____

7-2-24

Adam Othman, President

Name and Title

CITY OF COSTA MESA

Lori Ann Farrell Harrison
Lori Ann Farrell Harrison
City Manager

Date: 7/18/2024

ATTEST:

Brenda Green
Brenda Green
City Clerk



Date: 7/22/2024

APPROVED AS TO FORM:

Kimberly Hall Barlow
Kimberly Hall Barlow
City Attorney

Date: 7/16/24

APPROVED AS TO INSURANCE:

Ruth Wang
Ruth Wang
Risk Management

Date: 7/8/24

APPROVED AS TO CONTENT:

S. Yang
Seung Yang
City Engineer

Date: 7/3/24

DEPARTMENTAL APPROVAL:

Raja Sethuraman
Raja Sethuraman
Public Works Director

Date: 7-3-24

PURCHASING APPROVAL:

Carol Molina
Carol Molina
Finance Director

Date: July 11, 2024

EXHIBIT A

CONTRACT CHANGE ORDER #1



CITY OF COSTA MESA

PUBLIC WORKS DEPARTMENT

CONTRACT CHANGE ORDER NO. 001 SUPPL NO. REV.

PROJECT FIRE STATION NO. 4 – TRAINING FACILITY (SITE IMPROVEMENTS) SHEET 1 OF 1

FEDERAL NO.(S) N/A CITY SPECIFICATION NO. 23-04

To Caliba Inc. Contractor

You are hereby directed to make the herein described changes from the plans and specifications or do the following described work not included in the plans and specifications of this contract.

NOTE: This change order is not effective until approved in accordance with Council Policy No. 700-1

Description of work to be done, estimate of quantities, and prices to be paid. Segregate between additional work at contract price, agreed price and force account. Unless otherwise stated, rates for rental of equipment cover only such time as equipment is actually used and no allowance will be made for idle time.

Change Requested by: CITY

This change order is to get credit from the Contractor for a reduction of the original scope of work consisting of eliminating the Restroom Remodel items, the Carports and Solar Panel Systems, and a 5% reduction of the structural concrete scope from the project scope as described in the Change Order No. 1 shown on the project plans addendum 1.

The agreed lump sum price for the scope of work including all labor, equipment, materials, coordination, temporary facilities, access measures, overhead and profit, and any other ancillary costs related to the exclusion of the scope of work per Change Order No. 1 shown on the plans in the amount of \$1,155,312.00, as well as a voluntary reduction of \$100,000 on the allowance for unforeseen conditions or any additional work directed in writing by the City, the total credited amount shall be \$1,255,000.00.

Upon execution of this change order, no further claims for disputed or undisputed work shall be made and the payment authorized in this change order shall constitute full and final compensation for all additional work associated with completion of the Fire Station No. 4 – Training Facility (Site Improvements), City Project No. 23-04.

Table with 3 columns: Description, Amount, %

TOTAL COST: INCREASE DECREASE :-\$1,255,312.00

By reason of this contract change order, time of completion will be adjusted as follows: 0 working days.

Prepared by: Hector Soriano H.S. 7/3/24
Submitted by: Seung Yang S.Y. 7/3/24
Approval Recommended: Raja Sethuraman Raja Sethuraman
Approved: Lori Ann Farrell Harrison Lori Ann Farrell Harrison

We, the undersigned contractor, have given careful consideration to the change proposed and hereby agree, if this proposal is approved, that we will provide all equipment, furnish all materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment there for the prices shown above.

Contractor Signature Adam Othman Date 7-2-24 Title President

PROPOSAL REQUEST

OWNER	<u>X</u>
ARCHITECT	<u>X</u>
CONTRACTOR	<u>X</u>
FIELD	<u> </u>
OTHER	<u>X</u>
OTHER	<u> </u>

PROJECT: Costa Mesa Training
Facility (Scope of Work Review)
Project 230075.01

PROPOSAL
REQUEST NO.:1
DATE: 06/17/2024

(name/address)

OWNER: City of Costa Mesa
2300 Placentia Avenue,
Costa Mesa , CA 92627

ARCHITECT'S
PROJECT NO.:
230075.53
CONTRACT FOR:
CONTRACT DATE:

TO: Caliba Inc. 8031 Main Street,
Stanton, CA 90680 (Adam
Othman) President CEO

Please submit an itemized quotation for changes in the Contract sum and/or Time incidental to proposed modifications to the Contract Documents described herein.

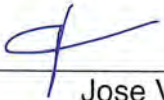
THIS IS NOT A CHANGE ORDER NOR A DIRECTION TO PROCEED WITH THE WORK DESCRIBED HEREIN.

Description: (Written Description of the Work)

1. The scope of work noted as Revision 3 Change Order 1 is noted with a delta 3 clouded in red and identified per sheet and as noted below. This work will be built at later time. All prior addenda information applies to the project and is noted as Delta 1 and 2 unless denoted as Delta 3. Sheet numbers: Refer to sheet index on T1 for sheets that were removed from scope of work.
2. The concrete scope of work is being removed for the perimeter around the existing classroom building and where the new restrooms are designed. This work will be built at another time.
3. Concrete to support the booster pumps is required. The concrete scope of work is being revised for the area under the pump house design that will be built at another time to AC paving. Asphalt sections for the proposed application are recommended to be 3.5 inches of Asphalt over 9.5 inches of class II base. Subgrade and aggregate base should be compacted to 95% relative compaction, determined in accordance with ASTM D1557 modified proctor laboratory maximum density.
4. The concrete scope for the solar project area, including footings and solar project is being revised from the scope of work that will be built at another time. The revised concrete scope of work under the carport for parking passenger vehicles only, would be revised from 6" reinforced concrete /8A.B. /95% compacted subgrade paving to 5 inches over prepared subgrade soils (other areas should remain the same). Concrete should have a compressive strength of 3,500 psi and subgrade soils should be compacted to 95% relative compaction, determined in accordance with ASTM D1557 modified proctor laboratory maximum density. Construction joints should be spaced no greater than 12.5 feet with proper dowel per detail 17/A14. At the canopy (solar project) parking location only, curbs, and V-gutters will remain as part of the original design of the project.
5. The scope of work for the restrooms and ancillary spaces to the existing classroom building is being removed with associated utilities (mechanical, plumbing & electrical) that will be built at later time.
6. Removal of 112 LF of 2" water line, removal of water shut-off valve, removal of 55 LF of 4" sewer line, removal of 2 sewer cleanouts, removal of 140 LF of 4" storm drain line, removal of 2 storm drain cleanouts, removal of 32 LF of v-gutter, removal of 120 LF of deeplift AC, removal of 2,965 sf of 8" PCC/8"AB, removal of demolition costs.

Attachments:
Full set of drawings with Delta 3, & hi-lited red.

Architect: **PBK ARCHITECTS, INC.**

By:  _____ 6/13/2024 _____, Jose Vallarta
/ File Name (pbk239) Jose Vallarta
 Associate Principal



RANCHO CUCAMONGA
 6165 ROCKEFELLER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91750
 909-987-0909 P

COSTA MESA FIRE TRAINING CENTER
 CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627

1. THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

2. LOCATION OF ALL UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID INTERCEPTING EXISTING PIPING OR CONDUITS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE ARCHITECT ACCEPTS RESPONSIBILITY FOR THE LOCATION OF EXISTING UTILITIES OR STRUCTURES UNLESS THEY ARE SHOWN OR DETAILED AND INSTALLED BY ANOTHER CONTRACTOR. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD ANY UNEXPECTED CONDITIONS BE DISCOVERED. THE CONTRACTOR SHALL BEAR ALL EXPENSE OR REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.

3. THESE DOCUMENTS AND THE IDEAS AND DETAILS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF H.C. ARCHITECTS, INC. AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF H.C. ARCHITECTS, INC.

4. THE WORK SHOWN ON THESE DRAWINGS AS EXISTING CONDITIONS WAS OBTAINED FROM INFORMATION FURNISHED BY THE OWNER. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, H.C. ARCHITECTS, INC. IS NOT RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY EXISTING OR EXISTING WORK IS H.C. ARCHITECTS, INC. RESPONSIBLE FOR ANY ERROR OR OMISSION WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

5. ALL FIRE LINES TO BE UNOBTSTRUCTURED DURING ALL PHASES OF CONSTRUCTION.

6. PENETRATIONS TO FIRE RATED MATERIALS OR ASSEMBLIES SHALL BE REFERRED TO AS WALL, FLOOR, CEILING, ROOF OR CURTAIN WALL SYSTEMS AS LISTED BY DISCREETLY LARGEST SHALL BE INSTALLED IN FIRE RESISTANCE DIRECTORY. FIRE STOP SYSTEMS SHALL BE AS SPECIFIED.

7. NON-RESIDENTIAL ENERGY STANDARDS COMPLIANCE STATEMENT (TITLE 24, PART 8)

THE DESIGN INDICATED HEREIN COMPLETES WITH THE REQUIREMENTS OF THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS. THE PROPOSED BUILDINGS WILL BE IN COMPLIANCE WITH THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS AND SPECIFICATIONS AND PROVIDED ANY FUTURE AMENDMENTS ARE COMPLETED IN ACCORDANCE WITH THE STANDARDS OF TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS. THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED TO COMPLY WITH THE ENERGY CONSERVATION STANDARDS OF TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS. THE DESIGNER SHALL BE SUBJECT TO THE STANDARDS AS INDICATED ON THE PLANS.

ENVELOPE MAINTENANCE MEASURES

A. INSTALLED VIBRATION ISOLATORS SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR ISOLATORS MATERIAL.

B. ALL INSULATED MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS, SECTIONS 907 AND 909.2.

C. ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE POTENTIAL AND CRACKS SHALL BE CALLED, AND CRACKS SHALL BE CALLED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.

D. SITE CONSTRUCTED DOORS, WINDOWS, AND SILENTS SHALL BE CALLED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFINISHED CLASS DOORS AND FIRE DOORS).

E. MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AN INFLTRATION RATES CERTIFIED BY THE MANUFACTURER IN ACCORDANCE WITH TITLE 24, PART 8, CALIFORNIA CODE OF REGULATIONS, SECTION 116(B).

F. MANUFACTURED FIBERGLASS PRODUCTS IN THE ENVELOPE OF THE BUILDING, INCLUDING, BUT NOT LIMITED TO, WINDOWS, SLIDING GLASS DOORS, FINISH DOORS, SILENTS, CURTAIN WALLS, AND GARDEN WALLS, SHALL BE CALLED FOR U/LABELS IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION RATING COUNCIL'S INTERMEDIATE RATING PROCEDURE.

G. DESIGNING WALL INSULATION SHALL BE INSTALLED BY ALL OPERATIVE PORTINGS OF FRAME WALLS (EXCEPT DOORS).

8. PROOF LOAD TESTS FOR EXPANSION TYPE ANCHOR BOLTS

A. ANCHOR DIAMETER REFERS TO THE THREAD SIZE FOR THE WEDGE CATEGORY AND TO THE ANCHOR OUTSIDE DIAMETER FOR THE SLEEVE CATEGORY.

B. APPLY PROOF TEST LOADS TO WEDGE & SLEEVE ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT REMOVE NUT AND INSTALL A THREADED COVER TO THE SAME THREAD SIZE OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.

C. FOR SLEEVE INTERNALLY THREADED CATEGORIES VERIFY THAT THE ANCHOR IS NOT PREVENTED FROM WITHDRAWING BY A BASEPLATE OR OTHER FEATURES. IF FEATURES ARE FOUND, LOCKSMITH AND SHIM OR REMOVE FURTHER FROM TEST TO TESTING.

D. REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED TO THE ANCHOR BIRTH TESTS, PROVIDED THE ANCHOR IS NOT RESTORED FROM WITHDRAWING BY THE FIXTURES.

E. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

F. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

(1) HYDRAULIC RAM METHOD: THE ANCHOR SHOULD HAVE NO OBSERVABLE MOVEMENT AT THE APPLICABLE TEST LOAD FOR WEDGE AND SLEEVE TYPE ANCHORS. A PRACTICAL WAY TO DETERMINE OBSERVABLE MOVEMENT IS THAT THE WARMER UNDER THE NUT RECESSES LOOSE.

(2) TORQUE WRENCH METHOD: THE APPLICABLE TEST TORQUE MUST BE REACHED WITHIN THE FOLLOWING LIMITS:

WEDGE OR SLEEVE TYPE ONE-HALF (1/2) TURN OF THE NUT ONE-QUARTER (1/4) TURN OF THE NUT FOR THE 3/4 IN SLEEVE ANCHOR ONLY

G. TESTING SHOULD OCCUR 34 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.

H. ALL ANCHOR BOLTS OF THE EXPANSION TYPE (LOADED IN EITHER PULL-OUT OR SHEAR) SHALL HAVE 50 PERCENT OF THE BOLTS (ALTERNATE BOLTS IN ANY GROUP ARRANGEMENT ALLOWED) BY THE TYPE OF SUBSTRATE AND DIAMETER OF BOLT LISTED BELOW UNDER TEST LOADS TABLE PROOF TESTS IN ORDER TO TEST THE ALLOWABLE TENSION LOAD. IF THERE ARE ANY FAILURES, THE IMMEDIATELY ADJACENT BOLTS MUST ALSO BE TESTED. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH TITLE 24, PART 8, SECTION 105A.1.3.

I. ALL BOLTS MUST HAVE ECHES APPROVAL.

J. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN CONCRETE SHALL BE ONE OF THE FOLLOWING:

1. HSLI, INC. - RWB BOLT T2Z
 STAINLESS STEEL WEDGE ANCHOR - ICCES ESR-1861

2. SIMPSON - STRONGBOLT 2
 STAINLESS STEEL WEDGE ANCHOR - ICCES ESR-3037

1. ALL ANCHOR BOLTS OF THE EXPANSION TYPE INSTALLED IN GROUT-FILLED MASONRY SHALL BE ONE OF THE FOLLOWING:

1. HSLI, INC. - RWB BOLT T2Z
 MASONRY ANCHORS - ICCES ESR-1861

2. SIMPSON - STRONGBOLT 2
 MASONRY ANCHORS - APPROVED ESR-246

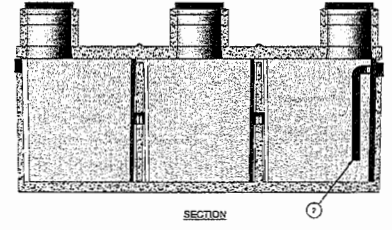
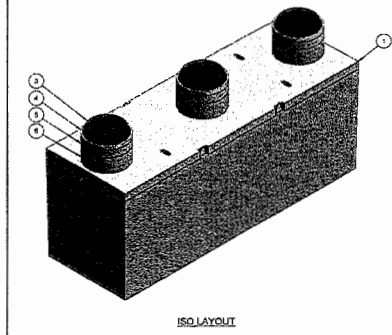
	REQUIRED INSTALLATION TORQUE NORMAL WEIGHT OR LIGHTWEIGHT CONCRETE		
	ØIA (IN)	TORQUE (FT.-LBS)	EMBEDMENT (IN)
KWKK BOLT T2Z ESR-4561	1/4"	6	1 1/2"
	3/8"	15	1 1/2", 2 1/2"
	1/2"	25	2", 3 1/2"
	5/8"	35	2 3/4", 4"
STRONG BOLT 2 ESR-240	3/8"	50	3 1/4", 4 3/4"
	1/2"	4	1 3/4"
	3/8"	20	2 5/8"
	1/2"	35	3 1/2"
	3/4"	100	5 1/4"

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AC	As Constructed	DMT	Demolition
AD	As Shown	DR	Drain
AE	As Proposed	DS	Drainage Sump
AF	As Found	DT	Demolition
AG	As Proposed	DU	Demolition
AH	As Proposed	EV	Elevation
AI	As Proposed	EX	Exterior
AJ	As Proposed	FL	Floor
AK	As Proposed	FR	Finish
AL	As Proposed	GT	Grout
AM	As Proposed	HT	Height
AN	As Proposed	IC	Interior
AO	As Proposed	IS	Interior
AP	As Proposed	IS	Interior
AQ	As Proposed	IS	Interior
AR	As Proposed	IS	Interior
AS	As Proposed	IS	Interior
AT	As Proposed	IS	Interior
AU	As Proposed	IS	Interior
AV	As Proposed	IS	Interior
AW	As Proposed	IS	Interior
AX	As Proposed	IS	Interior
AY	As Proposed	IS	Interior
AZ	As Proposed	IS	Interior
BA	As Proposed	IS	Interior
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BC	As Proposed	IS	Interior
BD	As Proposed	IS	Interior
BE	As Proposed	IS	Interior
BF	As Proposed	IS	Interior
BG	As Proposed	IS	Interior
BH	As Proposed	IS	Interior
BI	As Proposed	IS	Interior
BJ	As Proposed	IS	Interior
BK	As Proposed	IS	Interior
BL	As Proposed	IS	Interior
BM	As Proposed	IS	Interior
BN	As Proposed	IS	Interior
BO	As Proposed	IS	Interior
BP	As Proposed	IS	Interior
BQ	As Proposed	IS	Interior
BR	As Proposed	IS	Interior
BS	As Proposed	IS	Interior
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BU	As Proposed	IS	Interior
BV	As Proposed	IS	Interior
BW	As Proposed	IS	Interior
BX	As Proposed	IS	Interior
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BZ	As Proposed	IS	Interior
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CB	As Proposed	IS	Interior
CC	As Proposed	IS	Interior
CD	As Proposed	IS	Interior
CE	As Proposed	IS	Interior
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FU	As Proposed	IS	Interior
FV	As Proposed	IS	Interior
FW	As Proposed	IS	Interior
FX	As Proposed	IS	Interior
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GA	As Proposed	IS	Interior
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HY	As Proposed	IS	Interior
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IA	As Proposed	IS	Interior
IB	As Proposed	IS	Interior
IC	As Proposed	IS	Interior
ID	As Proposed	IS	Interior
IE	As Proposed	IS	Interior
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JL	As Proposed	IS	Interior
JM	As Proposed	IS	Interior
JN	As Proposed	IS	Interior
JO	As Proposed	IS	Interior
JP	As Proposed	IS	Interior
JQ	As Proposed	IS	Interior
JR	As Proposed	IS	Interior
JS	As Proposed	IS	Interior
JT	As Proposed	IS	Interior
JU	As Proposed	IS	Interior
JV	As Proposed	IS	Interior
JW	As Proposed	IS	Interior
JX	As Proposed	IS	Interior
JY	As Proposed	IS	Interior
JZ	As Proposed	IS	Interior
KA	As Proposed	IS	Interior
KB	As Proposed	IS	Interior
KC	As Proposed	IS	Interior
KD	As Proposed		

NOTES

- IN COMPLIANCE WITH UNIFORM PLUMBING CODE (UPC), INTERNATIONAL PLUMBING CODE (IPC) AND STRUCTURAL LOADING REQUIREMENTS OF ASTM INTERNATIONAL.
- MINIMUM OF 11 ACCESS OPENINGS PER COMPARTMENT REQUIRED (AS SHOWN).
- FINISH TO BE REVEALED PER LOCAL FREIGHT INSPECTION REQUIREMENTS FOR PRECAST CONCRETE TANK INSTALLATION PROCEDURES WHICH CAN BE FOUND AT: http://www.concrete.org/tech/InstallationProcedure_CPMI.pdf. THESE PROCEDURES ADDRESS REQUIRED EXCAVATION, SITE PREPARATION, INSTALLATION, VENTILATION, AND WATER/VAPOUR TESTING.

ITEM	QTY	PART NUMBER	DESCRIPTION	WEIGHT (LBS)
1	1	200070314	Tank, 22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
2	1	200070315	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
3	1	200070316	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
4	1	200070317	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
5	1	200070318	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
6	1	200070319	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
7	1	200070320	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000
8	1	200070321	22 3000 Gallon 8 Inch Assembly, 24" C, 24" C Double Butte	2000

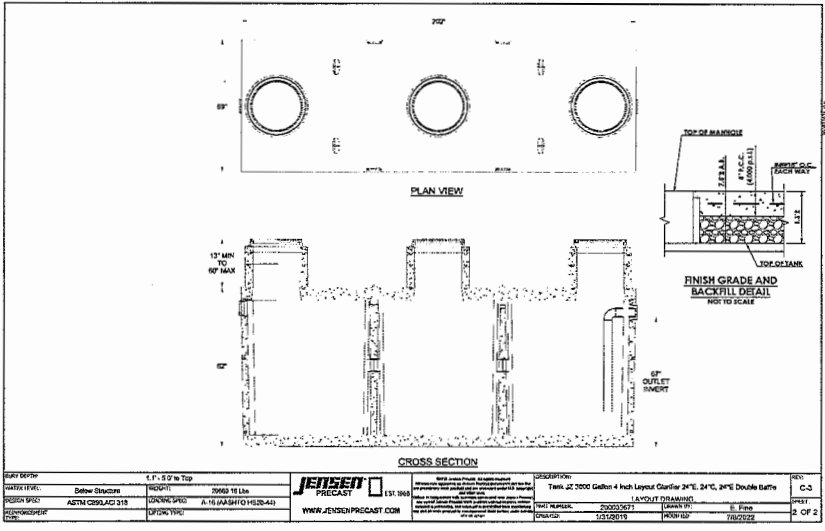


REV	DESCRIPTION	DATE	BY
A	ISSUED FOR CONSTRUCTION	10/20/2024	JHE/MLM
B	TOP SURFACE FINISH REVEALED	10/20/2024	JHE/MLM
C	ADDITIONS TO PART 11	10/20/2024	JHE/MLM

DATE PLOT:	11/11/2024	SCALE:	AS SHOWN
DATE PLOT:	11/11/2024	SCALE:	AS SHOWN

DATE PLOT:	11/11/2024	SCALE:	AS SHOWN
DATE PLOT:	11/11/2024	SCALE:	AS SHOWN

SPECIFY HEAVY-DUTY TRAFFIC-RATED COVERS

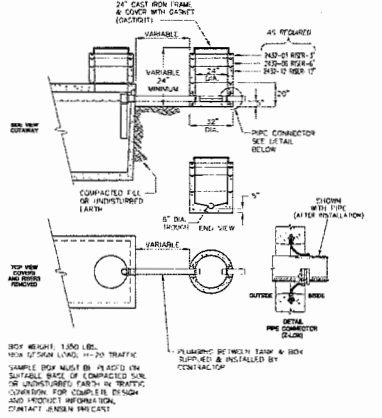


DATE PLOT:	11/11/2024	SCALE:	AS SHOWN
DATE PLOT:	11/11/2024	SCALE:	AS SHOWN

DATE PLOT:	11/11/2024	SCALE:	AS SHOWN
DATE PLOT:	11/11/2024	SCALE:	AS SHOWN

3 3,000 GALLON CLARIFIER

SAMPLE BOX WITH PIPE CONNECTORS
MODEL EV004-H

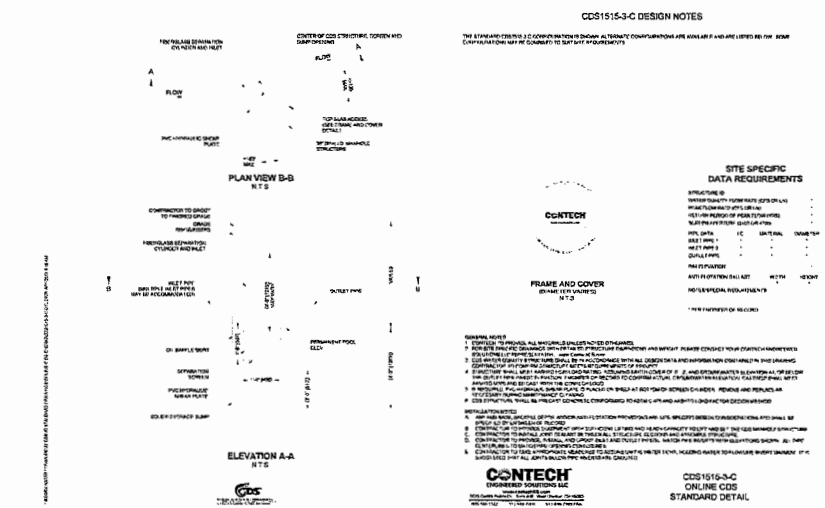


NOTE TO CONTRACTOR: SEE DETAIL TOP RIGHT FOR FINISH GRADE AND BACKFILL DETAIL.

JENSEN PRECAST

2 SAMPLE BOX

SCALE: N.E.C.



1 HYDRODYNAMIC SEPARATOR (CDS UNIT)

SCALE: N.E.C.

1/24/24

CONSULTANT
CONTECH CIVIL ENGINEERING CONSULTING
399 CORPORATE DR. STE 100
SAN DIEGO, CA 92108
www.contechinc.com

DATE:	1/24/2024	CHECKED:	TTC
DATE:	1/24/2024	SCALE:	PER PLAN
PROJECT NUMBER:	075.14		

REVISIONS

NO	DATE	BY	DESCRIPTION
1	1/24/24	TTC	ADDENDUM #1

DETAIL SHEET
DRAWING NUMBER: C-0.03



RANCHO CUCAMONGA
810 HOOVER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91750
951-887-0999 P

COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2000 PLACENTIA AVENUE
COSTA MESA, CA 92627



CONSULTANT
CMTEC CIVIL ENGINEERING CONSULTING
179 CORPORATE BL. SUITE 150
LAUREL MEADOW, CA 92643
P: 949.433.8222
E: info@cmtec.com

NO.	DATE	BY	DESCRIPTION
5/23/24	Revision 1, Change One		
1	1/29/24	TEC	40000M #1

DETAIL SHEET

DRAWING NUMBER: **C-0-04**

PROJECT SUMMARY
COSTA MESA
FIRE TRAINING CENTER
FIRE TRAINING CENTER

STATION NUMBER
CONSTRUCTION STATION - 1000
CONSTRUCTION STATION - 1000
CONSTRUCTION STATION - 1000
CONSTRUCTION STATION - 1000

PROFILES
- 1000
- 1000
- 1000
- 1000

SCALE: N.T.S.

NOTES

1. ALL PERFORATED DETENTION SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA FIRE TRAINING CENTER SPECIFICATIONS AND THE CITY OF COSTA MESA SPECIFICATIONS.

2. THE DETENTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA FIRE TRAINING CENTER SPECIFICATIONS AND THE CITY OF COSTA MESA SPECIFICATIONS.

3. THE DETENTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA FIRE TRAINING CENTER SPECIFICATIONS AND THE CITY OF COSTA MESA SPECIFICATIONS.

CONTECH
ENGINEERING CONSULTING LLC
CIVIL ENGINEERING CONSULTING

CONTECH
CIVIL ENGINEERING CONSULTING
CIVIL ENGINEERING CONSULTING

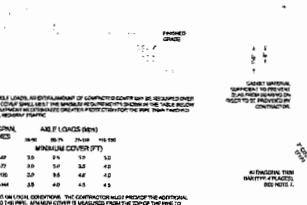
ASSSEMBLY
SCALE: 1" = 1'-0"

DY038274 Costa Mesa
Tower
Costa Mesa, CA
DETENTION SYSTEM

CONSTRUCTION LOADING DIAGRAM
SCALE: N.T.S.

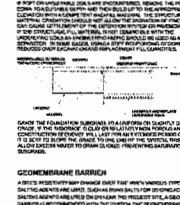
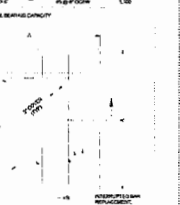
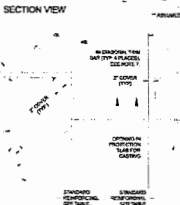
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REINFORCING TABLE

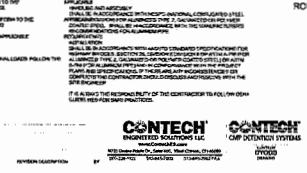
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1	1	#4	12"	10'-0"	TOP BARS
1	2	#4	12"	10'-0"	TOP BARS
1	3	#4	12"	10'-0"	TOP BARS
1	4	#4	12"	10'-0"	TOP BARS
1	5	#4	12"	10'-0"	TOP BARS
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1	100	#4	12"	10'-0"	TOP BARS



CONSTRUCTION LOADING

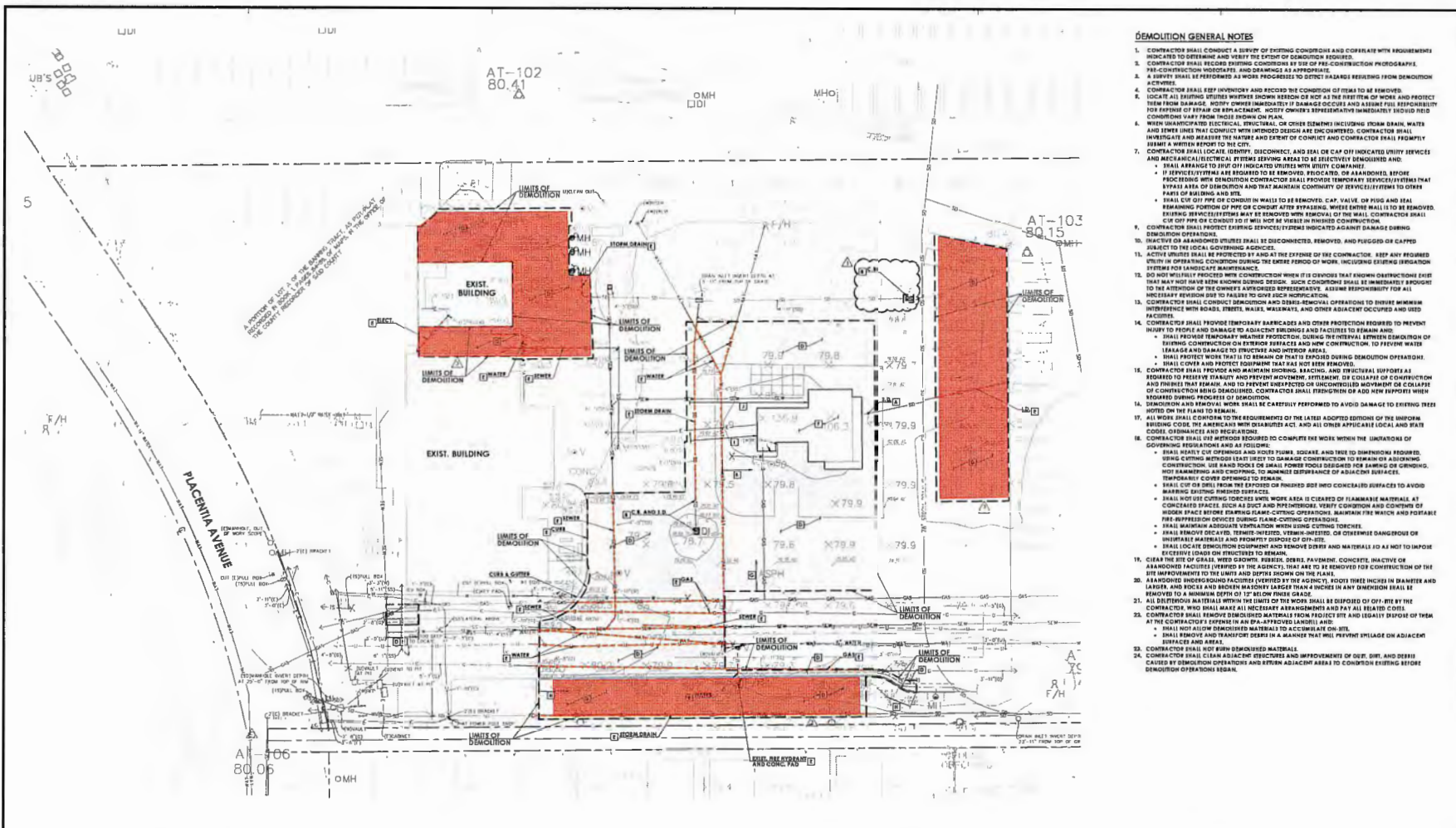
1. THE DETENTION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CALIFORNIA FIRE TRAINING CENTER SPECIFICATIONS AND THE CITY OF COSTA MESA SPECIFICATIONS.

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REINFORCING TABLE

SECTION	NO.	SIZE	SPACING	LENGTH	REMARKS
1	1	#4	12"	10'-0"	TOP BARS
1	2	#4	12"	10'-0"	TOP BARS
1	3	#4	12"	10'-0"	TOP BARS
1	4	#4	12"	10'-0"	TOP BARS
1	5	#4	12"	10'-0"	TOP BARS
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1	87	#4	12"	10'-0"	



DEMOLITION GENERAL NOTES

- CONTRACTOR SHALL CONDUCT A SURVEY OF EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE AND VERIFY THE EXTENT OF DEMOLITION REQUIRED.
- CONTRACTOR SHALL RECORD EXISTING CONDITIONS BY SIZE OF PRE-CONSTRUCTION PHOTOGRAPHS. PRE-CONSTRUCTION VIDEOGRAPHS AND DEMOS ARE APPROPRIATE.
- A SURVEY SHALL BE PERFORMED AS WORK PROGRESSES TO DETECT UNLAWFUL RESULTING FROM DEMOLITION ACTIVITIES.
- CONTRACTOR SHALL REFER INVENTORY AND RECORDS TO THE CONDITION OF ITEMS TO BE REMOVED. LOCATE ALL EXISTING UTILITIES WHETHER KNOWN RECORD OR NOT AS THE RESULT OF WORK AND PROTECT THEM FROM DAMAGE. NOTIFY OWNER IMMEDIATELY IF DAMAGE OCCURS AND ASSURE FULL RESPONSIBILITY FOR EXPENSE OF REPAIR OR RE-ACCOMMODATION. STRUCTURAL OR OTHER EXISTING UNLAWFUL FIELD CONDITIONS VARY FROM THOSE SHOWN ON PLANS.
- KNOWN UNANNOUNCED ELECTRICAL, STRUCTURAL, OR OTHER EXISTING INCLUDING FROM DRAIN, WATER AND SEWER LINES THAT CONFLICT WITH INTENDED DESIGN ARE ENCOUNTERED, CONTRACTOR SHALL INVESTIGATE AND REPORT THE NATURE AND EXTENT OF CONTACT AND CONTRACTOR SHALL PROMPTLY ISSUE A WRITTEN REPORT TO THE CITY.
- CONTRACTOR SHALL LOCATE, IDENTIFY, DISCONNECT, AND SEAL OR CAP OFF HORIZONTAL UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEM SERVING AREAS TO BE SELECTIVELY DEMOLISHED AND SHALL ARRANGE TO HIRE OFFICIAL INSPECTOR TO VERIFY.
- IF SERVICES/UTILITIES ARE REQUIRED TO BE REMOVED, PRECAPPED, OR ABANDONED, BEFORE PROCEEDING WITH DEMOLITION CONTRACTOR SHALL PROTECT TEMPORARILY EXPOSED UTILITIES THAT STAY IN AREA OF DEMOLITION AND THAT MAINTAIN CONTINUITY OF SERVICE/UTILITY TO OTHER PARTS OF BUILDING AND SITE.
- TRAIL CUT OFF PIPE OR CONDUIT IN WALLS TO BE REMOVED, CAP, VALVE, OR FUGG AND SEAL REMAINING PORTION OF PIPE OR CONDUIT AFTER BYPASSING, WHERE ENTIRE WALL IS TO BE REMOVED. EXISTING SERVICES/UTILITIES SHALL BE REMOVED WITH REMOVAL OF THE WALL. CONTRACTOR SHALL CUT OFF PIPE OR CONDUIT IT WILL NOT BE VISIBLE IN FINISHED CONSTRUCTION.
- CONTRACTOR SHALL PROTECT EXISTING SERVICES/UTILITIES INDICATED AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
- INACTIVE OR ABANDONED UTILITIES SHALL BE DISCONNECTED, REMOVED, AND FUGGINGS OF CAPPED SUBJECT TO THE LOCAL GOVERNING AGENCY.
- ACTIVE UTILITIES SHALL BE PROTECTED BY AND AT THE EXPENSE OF THE CONTRACTOR. KEEP ANY REQUIRED UTILITY IN OPERATING CONDITION DURING THE ENTIRE PERIOD OF WORK, INCLUDING EXISTING IRRIGATION SYSTEMS FOR LANDSCAPE MAINTENANCE.
- DO NOT WILLFULLY PROCEED WITH CONSTRUCTION WHEN IT IS KNOWN THAT KNOWN CONDITIONS EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ATTENTION OF THE OWNER'S APPROVED REPRESENTATIVE, ASSUME RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO DO SUCH NOTIFICATION.
- CONTRACTOR SHALL CONDUCT DEMOLITION AND DEMOLITION OPERATIONS TO MINIMIZE MINIMUM INTERFERENCE WITH ROADS, TRAILS, WALLS, MAINTENANCE, AND OTHER ADJACENT OCCUPANCY AND USE FACILITIES.
- CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION KNOWN TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN AND:
 - SHALL PROVIDE TEMPORARY WEATHER PROTECTION DURING THE INTERVAL BETWEEN DEMOLITION OF EXISTING CONSTRUCTION OR EXISTING STRUCTURES AND NEW CONSTRUCTION, TO PREVENT WATER LEAKAGE AND DAMAGE TO EXISTING AND INTERIOR AREAS.
 - SHALL PROTECT WORK THAT IS TO REMAIN ON THAT IS EXPOSED DURING DEMOLITION OPERATIONS. SHALL COVER AND PROTECT EQUIPMENT THAT HAS BEEN REMOVED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN HOarding, BRACING, AND TEMPORARY SUPPORTS AS REQUIRED TO PREVENT INSTABILITY AND PREVENT COLLAPSE. SETTLEMENT OF COLLAPSE OF CONSTRUCTION SHALL BE MONITORED. CONTRACTOR SHALL PROVIDE OR ADD NEW SUPPORTS WITH REGARD TO EXISTING PROGRESS OF DEMOLITION.
- DEMOLITION AND REMOVAL WORK SHALL BE CAREFULLY PERFORMED TO AVOID DAMAGE TO EXISTING TREES NOTED ON THE PLANS TO REMAIN.
- ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE UNIFORM BUILDING CODE, THE AMERICAN WITH DISABILITIES ACT, AND ALL OTHER APPLICABLE LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
- CONTRACTOR SHALL USE METHODS REQUIRED TO COMPLETE THE WORK WITHIN THE JURISDICTION OF GOVERNING REGULATIONS AND:
 - SHALL SHALL CUT OFF BRANCHES AND HOLES THRU WALL, SQUARE AND TRIM TO DIMENSIONS REQUIRED. BRING CUTTING METHOD USED TO BRANCH CONNECTION TO REMAIN ON ADJACENT CONSTRUCTION. USE HAND TOOLS OF SMALL POWER TOOLS DESIGNATED FOR SAME OR OTHERWISE NOT ALLOWING IMPACT TO ADJACENT SURFACE.
 - TEMPORARILY COVER OPENINGS TO REMAIN.
 - SHALL CUT OFF BRANCHES FROM THE EXPOSURE OF FINISHES AND UNFINISHED SURFACES TO AVOID DAMAGING EXISTING SURFACE.
 - SHALL NOT USE CUTTING TOOLS WITH WORK AREA IS COVERED OF FLAMMABLE MATERIALS AT CONCEALED SPACES, SUCH AS DUCT AND PIPE INTERIORS. VERIFY CONDITION AND CONTENTS OF HIDDEN SPACE BEFORE STARTING FLAME-CUTTING OPERATIONS. MAINTAIN FIRE WATCH AND PORTABLE FIRE EXTINGUISHING DEVICES DURING FLAME-CUTTING OPERATIONS.
 - SHALL MAINTAIN ADEQUATE VENTILATION WITH SMOKE CUTTING TOOLS.
 - SHALL NOTIFY OCCUPANTS, TENANTS, VISITORS, NEIGHBORS, OR OTHERS OF DANGEROUS OR UNUSABLE MATERIALS AND PROMPTLY DISPOSE OF ON-SITE.
 - SHALL LOCATE DEMOLITION EQUIPMENT AND REMOVE DEBRIS AND MATERIALS TO A NOT TO IMPOSE EXCESSIVE LOADS ON STRUCTURES TO REMAIN.
- CLEAN THE SITES OF WALLS, WOOD GROUND, REBAR, DEBRIS, PAYMENT, CONCRETE, INACTIVE OR ABANDONED FACILITIES (REMOVED BY THE AGENCY), THAT ARE TO BE REMOVED FOR CONSTRUCTION OF THE SITE IMPROVEMENTS TO THE LIMITS AND OFFICE SHOWS ON THE PLANS.
- ABANDONED WINDING FACILITIES (REMOVED BY THE AGENCY), NOTIFY THREE INCHES IN DIAMETER AND LARGER, AND HOLES AND BROWER MATERIALS 4 INCHES THICK 4 INCHES IN ANY DIMENSION SHALL BE REMOVED TO A MINIMUM DEPTH OF 12" BELOW FINISH GRADE.
- ALL SUBSTRUCTURE MATERIALS WITHIN THE LIMITS OF THE WORK SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR, WHO SHALL MAKE ALL NECESSARY ARRANGEMENTS AND PAY ALL RELATED COSTS. CONTRACTOR SHALL REMOVE DEMOLISHED MATERIALS FROM PROJECT SITE AND USUALLY DISPOSE OF THEM AT THE CONTRACTOR'S EXPENSE IN AN EPA-APPROVED LANDFILL AND:
 - SHALL NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 - SHALL REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT IMPLANT ON ADJACENT STRUCTURE AND AREAS.
- CONTRACTOR SHALL NOT BURN DEMOLISHED MATERIALS.
- CONTRACTOR SHALL CLEAN ADJACENT STRUCTURES AND IMPROVEMENTS OF DIRT, DEBRIS CAUSED BY DEMOLITION OPERATIONS AND EXPOSE ADJACENT AREAS TO CONTROL EXISTING BEFORE DEMOLITION OPERATIONS BEGIN.

DEMOLITION NOTES

- (A) FUGG AND ABANDON EXISTING STORM DRAIN LINE IN PLACE
 - (B) REMOVE EXIST. CATV/SAWY AND FUGG DRAIN FOR UTILITY CONNECTION - SEE SHEET C-101
 - (C) CONCRETE REMOVAL OF EXIST. MISCELLANEOUS ITEM (COMPLETE) AND DISPOSE ACCORDINGLY
 - (D) LAUNCH AND REMOVE EXISTING CONCRETE A.C./A.L. STAIRS OR PAD (COMPLETE) AND DISPOSE
 - (E) REMOVE IN PLACE - PORTALS AND LOCATE EXISTING UNDERGROUND UTILITY LINES TO PROTECT AS REQUIRED
 - (F) DEMOLISH/REMOVE EXISTING BUILDING/STRUCTURE/FUNCTION/UTILITY/MECHANICAL AND DISPOSE
 - (G) EXISTING GAS LINE AND/OR APPEARANCE - COORD. REMOVAL WITH THE GAS COMPANY
 - (H) LAUNCH AND REMOVE EXISTING CURB OR CURB & GUTTER AND DISPOSE
 - (I) EXIST. ELECTRICAL/CATV/TELECOM. LINES - SEE ELECTRICAL PLANS FOR CONDUIT CAPPING/REPAIRING - FUGG AND REMOVE EXISTING UTILITY
 - (J) FUGG AND REMOVE EXISTING WATER LINE
- * CONDUIT RE-CAPPING AS REQUIRED
- ALL UTILITIES SHOWN BY SIZE OFF AND CAPPED PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK.
- SEE SOILS REPORT FOR ADDITIONAL DEMOLITION REQUIREMENTS



NOTE TO CONTRACTOR:
 CONTRACTOR TO SCHEDULE A SITE WALK WITH THE CITY AND/OR THE DIST. PRIOR TO START OF DEMOLITION TO VERIFY ALL ITEMS TO BE DEMOLISHED.

NOTE TO CONTRACTOR:
 ALL UTILITIES SHOULD BE TURNED OFF AND CAPPED PER UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK.

NOTE TO CONTRACTOR:
 INSTALL A-ROOF CHAIN LINK FENCE WITH WOODSCREEN AND GATE, WHERE NECESSARY, AROUND THE PERIMETER OF THE SITE AS REQUIRED. CONTRACTOR SHALL PROTECT THESE FENCES AND KEEP AREA FULLY SECURED DURING DEMOLITION. PROJECT FENCES, GATE, PRIVATE SECTORS, FIREWATER WATER POLLUTION CONTROL, SHALL REMOVED THE PROPERTY OF THE CITY AND SHALL REMAIN IN PLACE AT THE COMPLETION OF DEMOLITION.

NOTE TO CONTRACTOR:

- LOCATION OF EXISTING FACILITIES SHOWN HEREON ARE BASED ON THE EXISTING TOPOGRAPHIC SURVEY PERFORMED BY GVMTEC, INC. DATED APRIL 2023. FIELD OBSERVATION AND A SEARCH OF AVAILABLE RECORDS AND MAY NOT REPRESENT ACTUAL CONDITIONS.
- CONTRACTOR MUST FIELD LOCATE ALL UTILITIES (LOCATION AND DEPTH) WITHIN WORK AREA AS A FIRST STEP OF WORK AND VERIFY PROPOSED DESIGN IS VALID.
- CONTRACTOR SHALL PROTECT IN PLACE THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING UTILITY LINES.
- CONTRACTOR TO VERIFY AND INFORM THE CITY OF ANY FACILITIES DISCOVERED IN THE FIELD WHICH IS NOT SHOWN ON THE PLAN, OR DIFFERS IN LOCATION OR SIZE, PRIOR TO REMOVAL.

NOTE TO CONTRACTOR:

EXACT LOCATION OF EXISTING UNDERGROUND UTILITY LINES ON-SITE ARE UNKNOWN. CONTRACTOR SHALL:

- VERIFY LOCATION, SIZE, BEHAVIOR OF EXISTING UTILITIES AND VERIFY DESIGN AS A FIRST STEP OF WORK. NOTIFY ENGINEER IMMEDIATELY OF ANY REQUIRED CHANGE IN DESIGN.
- CAP EXISTING UTILITIES AT DEMOLITION LIMITS - NOTIFY CITY OF ALL LOCATION, SIZE AND INVERT ELEVATIONS AT COMPLETION OF DEMOLITION.
- IF UNDER PIPES ARE FOUND CONNECTING TO EXISTING GRASSES THAT ARE REMOVED DURING THE CONSTRUCTION OF THIS PROJECT OR PIPES ARE DAMAGED OR REMOVED DURING CONSTRUCTION THAT RUN OUTSIDE OF DEMOLITION LIMIT, NOTIFY ENGINEER IMMEDIATELY OF THE LOCATION AND SET TO INVERT CONTINUITY OF DRAINAGE UPSTREAM.



RANCHO CUCAMONGA
 8165 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-967-0909 P

COSTA MESA FIRE TRAINING CENTER
 CITY OF COSTA MESA
 2300 PLACENCIA AVENUE
 COSTA MESA, CA 92627

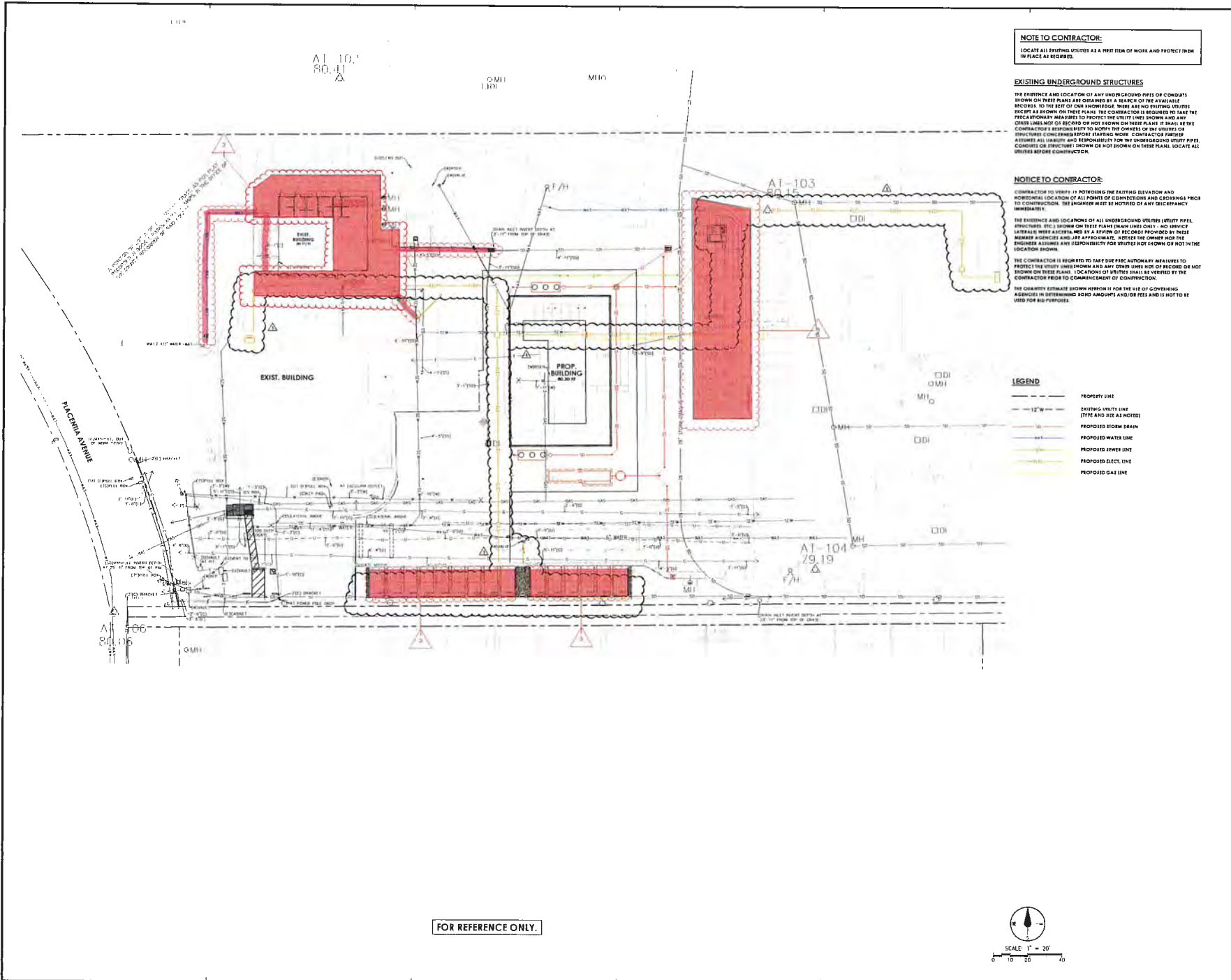


GVMTEC
 GROUND VERIFICATION METHODS
 11500 COLUMBIAN DR, SUITE 100
 COSTA MESA, CA 92626
 714-443-8822
 gvm@gvmtec.com

5/23/24	Revision 3 Change Other 1		
1/24/24	TEC ADDENDUM #1		
NO	DATE	BY	DESCRIPTION
REVISIONS			
DRAWN:	RAY	CHECKED:	TRC
DATE:	1/24/2024	SCALE:	PER PLAN
PROJECT NUMBER:	17014		

DEMOLITION PLAN

DRAWING NUMBER: **D-1.01**



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COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



2/5/24

CONSULTANT
CIVTEC
 1755 FISHBURN WAY, SUITE 100
 VESPERA PARK, CA 92684
 P: 714 442-8822
 F: 714 442-8844

5/23/24	Revision 3 Change Order 1		
2/05/24	SEC - ADDITION #2		
NO.	DATE	BY	DESCRIPTION
REVISIONS			

DATE:	03/25/2024	SCALE:	PER PLAN
PROJECT NUMBER:	1725.14		

COMPOSITE UTILITY PLAN

DRAWING NUMBER: **CU-1**

ADDENDUM 2

1/24

AT 102
80.41

OMH
CDD

MHO

NOTE TO CONTRACTOR:

LOCATE ALL EXISTING UTILITIES AS A PRELIMINARY MEASURE TO VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THESE PLANS. LOCATE ALL UTILITIES AS SHOWN IN THESE PLANS.

EXISTING UNDERGROUND STRUCTURES

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND PIPES OR CONDUITS SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITIES NOT SHOWN ON THESE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR SHALL ASSUME ALL LIABILITY AND RESPONSIBILITY FOR THE UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE PLANS. LOCATE ALL UTILITIES BEFORE CONSTRUCTION.

NOTICE TO CONTRACTOR:

CONTRACTOR TO VERIFY BY PONDING THE EXISTING ELEVATION AND HORIZONTAL LOCATION OF ALL POINTS OF CONNECTIONS AND CROSSINGS PRIOR TO CONSTRUCTION. THE ENGINEER SHALL BE HORROR OF ANY DISCREPANCY UNLESS STATED OTHERWISE.

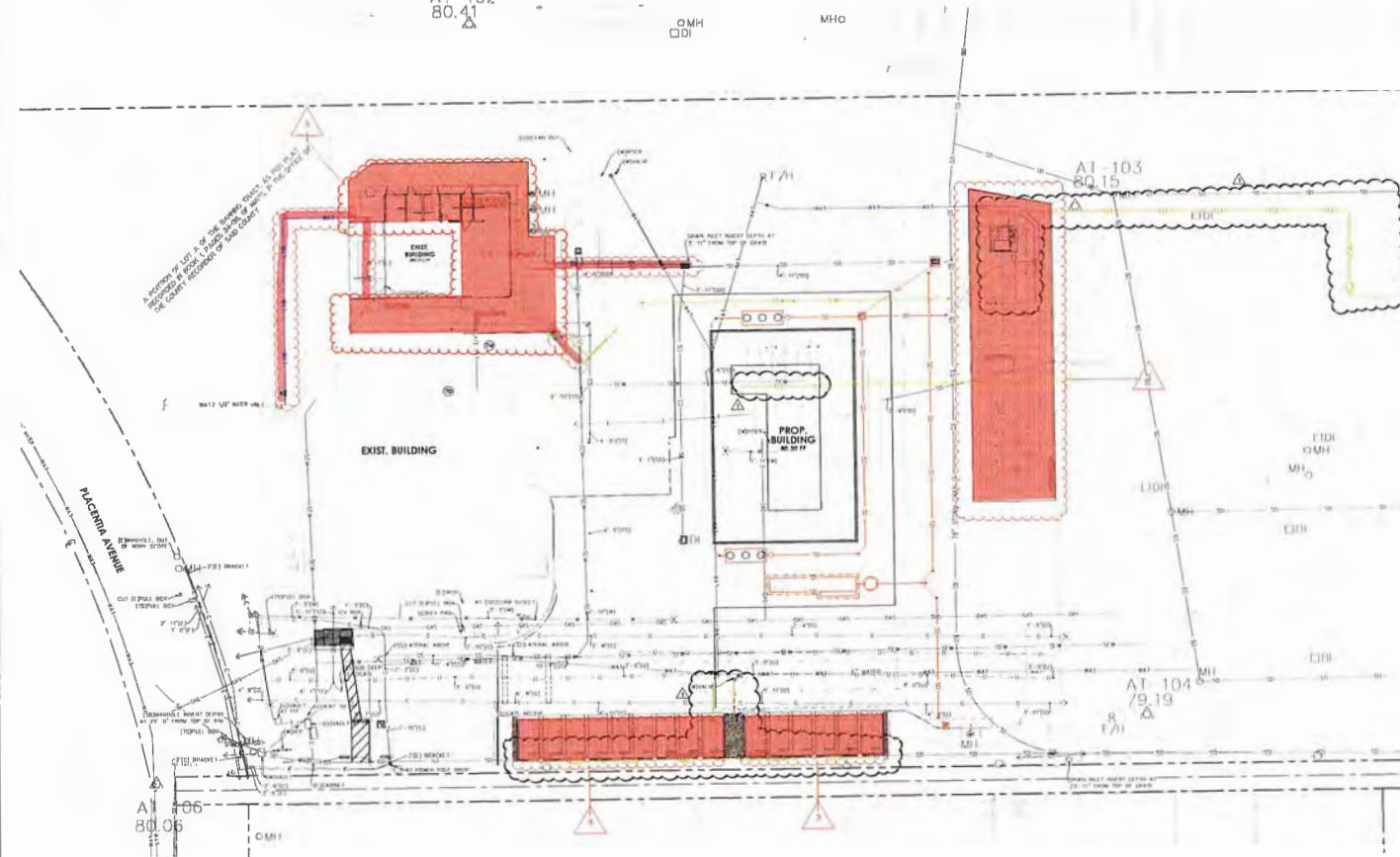
THE EXISTENCE AND LOCATIONS OF ALL UNDERGROUND UTILITIES (UTILITY PIPES, STRUCTURES, ETC.) SHOWN ON THESE PLANS (MAIN LINES ONLY) - NO SERVICE LATERALS ARE ACCEPTED BY A REVIEW OF RECORDS PROVIDED BY THESE PUBLIC AGENCIES AND ARE APPROXIMATE. NOTIFY THE OWNER FOR THE ENGINEER'S ASSUMED ANY RESPONSIBILITY FOR UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN.

THE CONTRACTOR IS REQUIRED TO TAKE THE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN AND ANY OTHER UTILITIES NOT SHOWN ON THESE PLANS. LOCATIONS OF UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.

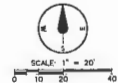
THE QUANTITY ESTIMATE SHOWN HEREON IS FOR THE USE OF GOVERNING AGENCIES IN DETERMINING BOND AMOUNTS AND/OR FEES AND IS NOT TO BE USED FOR ANY OTHER PURPOSES.

LEGEND

- PROPERTY LINE
- - - 12" W. EXISTING UTILITY LINE (TYPE AND SIZE AS NOTED)
- PROPOSED WATER MAIN
- PROPOSED WATER LINE
- PROPOSED SEWER LINE
- PROPOSED ELECT. LINE
- PROPOSED GAS LINE



FOR REFERENCE ONLY.



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8183 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91750
REG-987-0008 P

COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



POWER RATED CONSULTANT

CVTEC CONSULTING ENGINEERS

1100 COLLEGE BLVD., SUITE 200
COSTA MESA, CA 92626
TEL: 714.441.8882
WWW.CVTEC.COM

5/23/24	Revision 3: Change Order 1
1	1/26/24 TEC ADDENDUM #1
NO DATE BY DESCRIPTION	REVISIONS

DRAWN:	STAFF	CHECKED:	TEC
DATE:	1/24/2024	SCALE:	PER PLAN
PROJECT NUMBER:	170 14		

COMPOSITE UTILITY PLAN

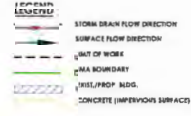
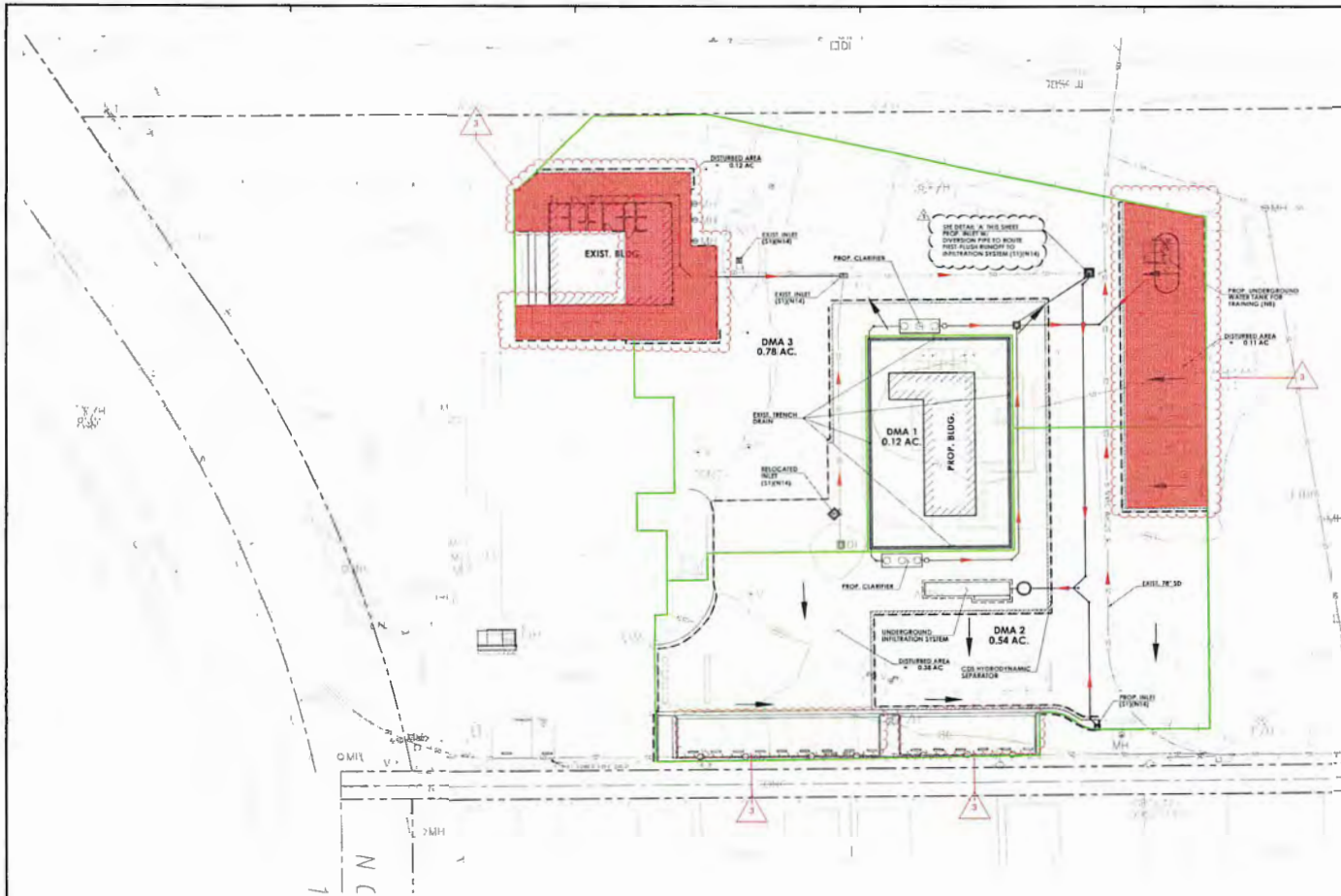
DRAWING NUMBER: **CU-1**



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 8153 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-987-2000 F

COSTA MESA FIRE TRAINING CENTER

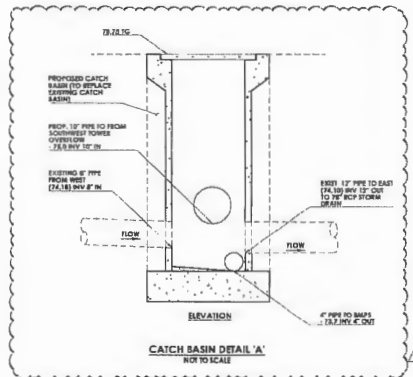
CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



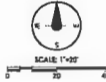
- SOURCE CONTROL BMP LEGEND**
- Structural BMPs
- (S1) Storm Drain Banning and Signage
- Non-Structural BMPs
- (N1) Stipulation for Property Owners and Occupants
 - (N2) Activity Restrictions
 - (N3) Soil Stabilization
 - (N4) Underground Storage Tank Compliance
 - (N10) Uniform Fire Code Implementation
 - (N11) Common Area Litter Control
 - (N12) Employee Training
 - (N14) Common Area Catch Basin Inspection
 - (N15) Street Sweeping Private Streets and Parking Lots

BMPs FOR DRIVE BAYS:
 (N11)(N12)(N15)

TOTAL DISTURBED AREA = (0.11 + 0.58 + 0.12)
 = 0.81 ACRES



FOR REFERENCE ONLY



REGISTERED PROFESSIONAL ENGINEER
CMTEC
 CIVIL ENGINEERING
 10150 CANTON AVENUE, SUITE 100
 COSTA MESA, CA 92626
 949-442-2222
 www.cmtecinc.com

DATE	BY	DESCRIPTION
5/23/24	Revision 3	Change Drive 1
NO REVISIONS		
DRAWN:	STAFF:	CHECKED:
DATE:	1/28/2024	SCALE:
PROJECT NUMBER:	190 14	

WQMP SITE MAP

DRAWING NUMBER: **WQ-1**

1/28/24



RANCHO CUCAMONGA
8165 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
951-847-6081 F

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



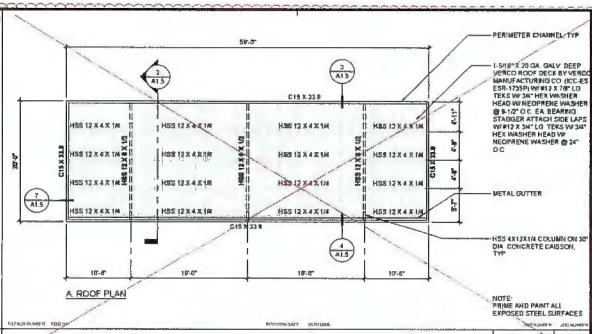
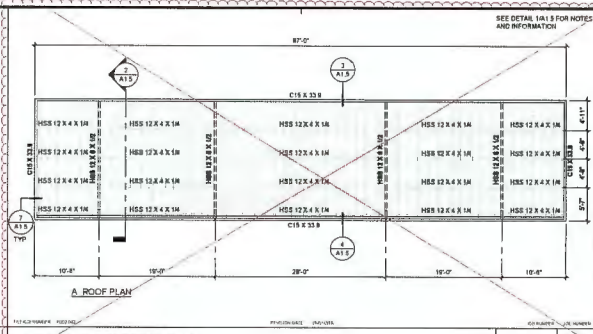
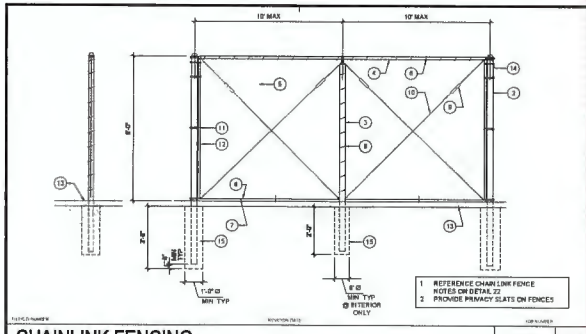
CONSULTANT

NO	DATE	BY	DESCRIPTION
1			
2			
3			
4			
5	5/23/24		Revision 3, Change Order 1
REVISIONS			
DRAWN:	SY	CHECKED:	KN
DATE:	12/22/2023	SCALE:	AS NOTED
PROJECT NUMBER:	230075		

SITE DETAILS

DRAWING NUMBER: **A1.5**

THIRD SUBMITTAL

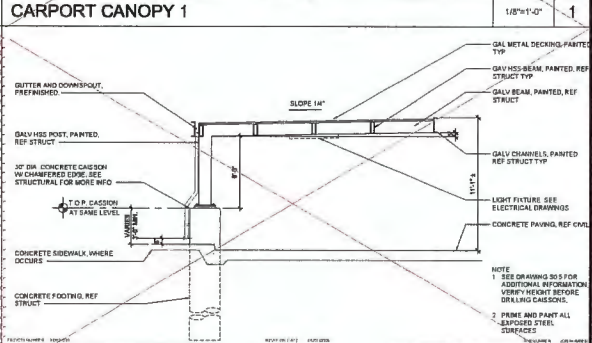


CHAINLINK FENCING 1/2"=1'-0" 17

REMARKS FOR CHAIN LINK FENCE DETAILS

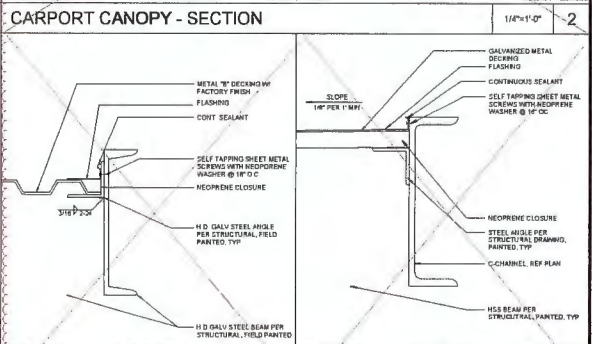
- 3" x 3" GALVANIZED STEEL ANCHOR BOLT EMBEDDED INTO CONCRETE MIDWAY BETWEEN POSTS, TYP.
- 2 1/2" O D GALV. FENCE POST (5.75 LBMT.) END, ANGLE & CORNER POST, TYP.
- 7/8" O D GALVANIZED STEEL LINE POST AND HORIZONTAL (5.89 LBMT.) TYP.
- 1 1/4" O D GALVANIZED STEEL HORIZONTAL RAIL (3.7 LBMT.) TYP.
- 2 1/2" MESH X 36 GA. GALVANIZED FENCE FABRIC WITH ANKLED TOP AND BOTTOM BELLAIR FABRIC FABRIC TO BE GALVANIZED BEFORE WEAVING (8 MI.) TYP.
- 3 GA. (1/8" DIA.) GALVANIZED STEEL WIRMS OR HOOD RINGS AT 15" O.C. MAX SPACING MINIMUM OF 9 WIRMS PER EA. 10' HORIZONTAL RAIL, TYP.
- 7 GA. (0.177 DIA.) GALVANIZED STEEL TENSION WIRE, TYP.
- 3/8" DIA. (0.8125 DIA.) GALVANIZED STEEL POST CLIPS AT 4' MAX SPACING, MIN. OF 5 POST CLIPS FOR 4' POSTS, MIN. OF 10 POST CLIPS FOR 10' POSTS, TYP.
- GALVANIZED ADJUSTABLE TURNBUCKLE FOR 3/8" DIA. TRUSS ROD, TYP.
- 3/8" DIA. GALV. STEEL ADJUSTABLE TRUSS ROD. TRUSS RODS ARE REQUIRED FOR ALL GATE POST PANELS AND END OF CORNER POST PANELS, TYP.
- GALVANIZED STRETCHER BAR TENSION BAND AT 12" MAX. SPACING, MIN. OF 4 TENSION BANDS FOR 4' POSTS AND 30 TENSION BANDS FOR 30' POSTS, TYP.
- 1/4" x 8" GALVANIZED STEEL STRETCHER BAR, TYP.
- EXISTING PANELS PATCH AND REPAIR AS REQUIRED TO MATCH ADJACENT CONCRETE.
- GALV. RAMP/ROOF CAP, TYP.
- CONCRETE FOOTING, TYP.

CARPORT CANOPY 2 1/8"=1'-0" 9



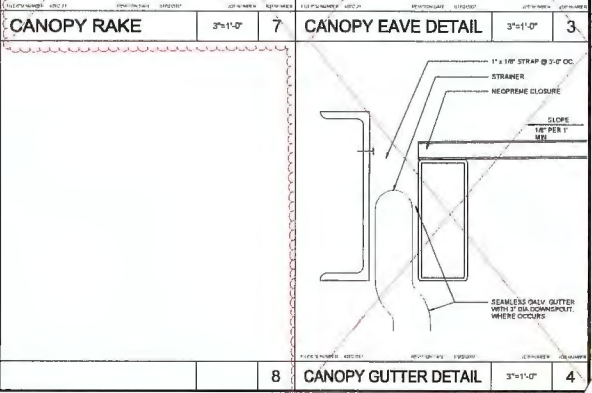
CHAINLINK FENCING KEYNOTES NTS 22

14



15

11



16

12

8



RANCHO CUCAMONGA
8163 ROCKESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-897-9999 P

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



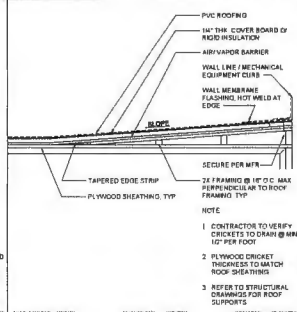
CONSULTANT

NO	DATE	BY	DESCRIPTION

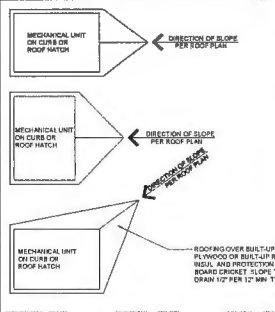
DRAWN: SY CHECKED: KJ
DATE: 1/22/2023 SCALE: AS NOTED
PROJECT NUMBER: 230075

DETAILS

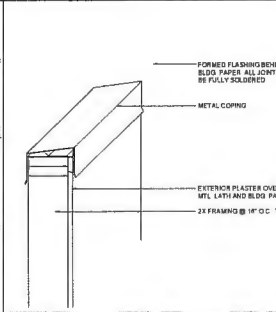
ISSUING REVISION: **A8.2**



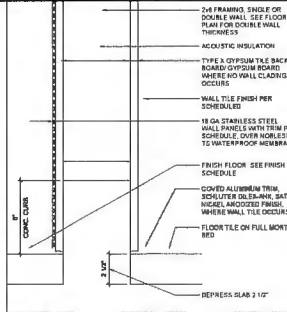
CRICKET 1"x1'-0" 1



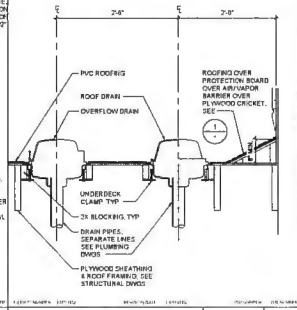
TYP. ROOF EQUIPMENT CRICKET 1/4"x1'-0" 5



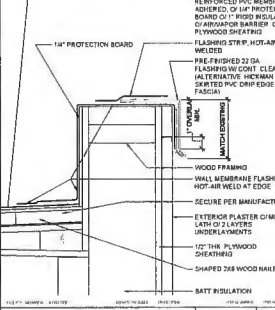
FLASHING AT INTERSECTING WALLS 1 1/2"x1'-0" 9



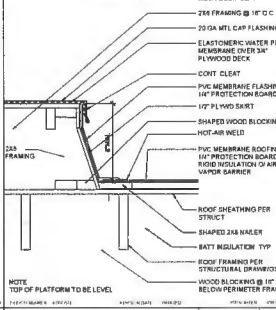
BASE @ INTERIOR WALL 3"x1'-0" 13



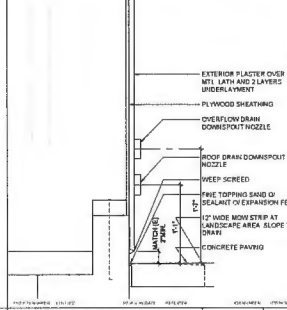
ROOF / OVERFLOW DRAIN 1"x1'-0" 2



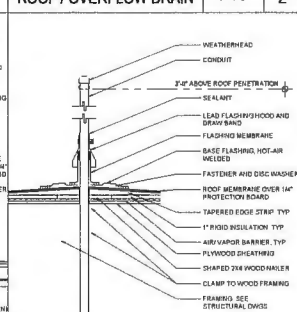
PARAPET WALL 3"x1'-0" 6



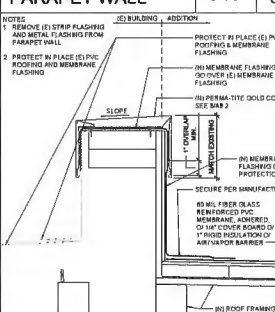
ROOF MECH LEVEL PLATFORM 1 1/2"x1'-0" 10



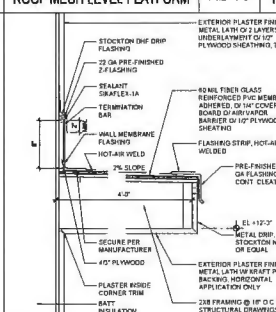
ROOF DRAIN / OVERFLOW DRAIN 1 1/2"x1'-0" 14



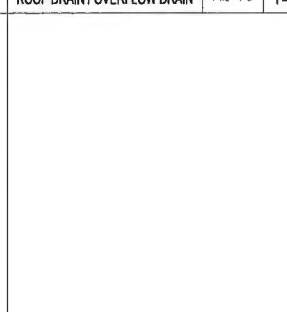
CONDUIT AT ROOF 1"x1'-0" 3



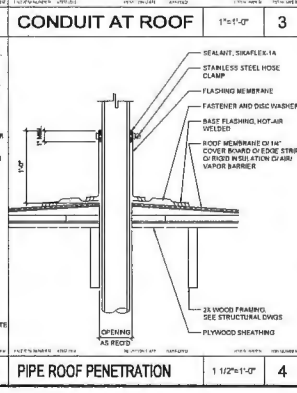
PARAPET WALL 3"x1'-0" 7



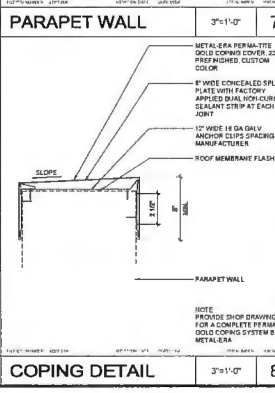
OVERHANG DETAIL 1 1/2"x1'-0" 11



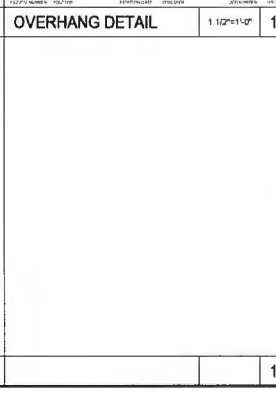
ROOF MECH LEVEL PLATFORM 1 1/2"x1'-0" 15



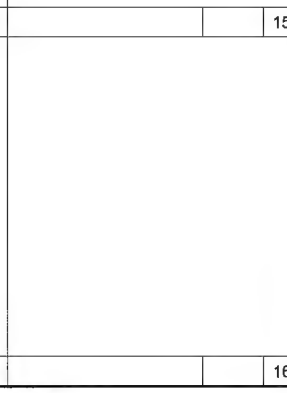
PIPE ROOF PENETRATION 1 1/2"x1'-0" 4



COPING DETAIL 3"x1'-0" 8



ROOF MECH LEVEL PLATFORM 1 1/2"x1'-0" 12



ROOF DRAIN / OVERFLOW DRAIN 1 1/2"x1'-0" 16

21

22

23

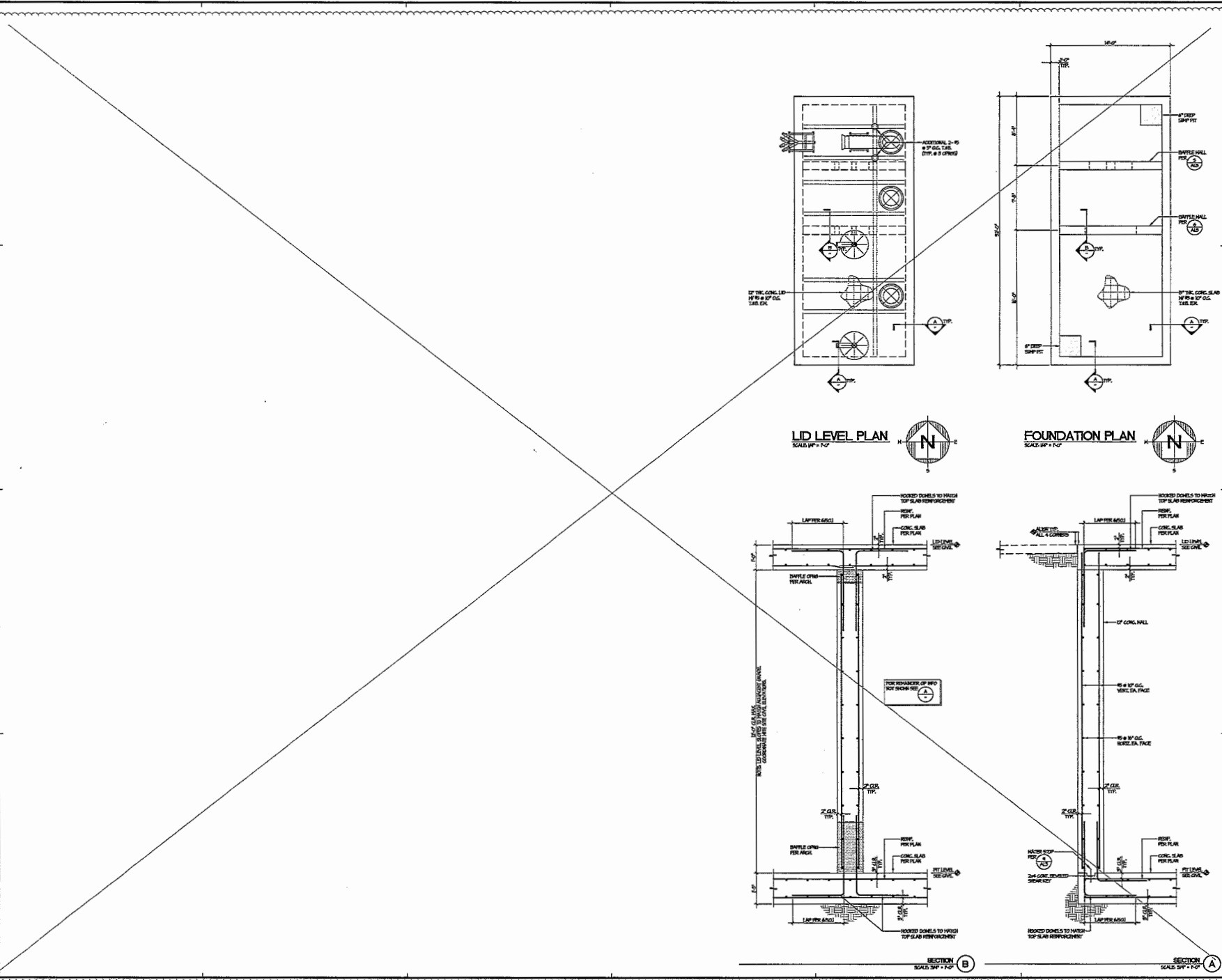
24



RANCHO CUCAMONGA
 8153 ROCKETER AVENUE, SUITE 108
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 909-867-0007 P

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



CONSULTANT
miyamoto.

NO	DATE	BY	DESCRIPTION
1	11/23/24	Revision 3, Change Order 1	

DRAWN: EE CHECKED: RBL/TB
 DATE: 12/05/2023 SCALE: AS NOTED
 PROJECT NUMBER: 220075

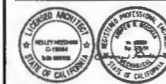
PUMP TEST PIT
 PLANS & DETAILS
 DRAWING NUMBER: S0.6



RANCHO CUCAMONGA
8188 ROCKWATER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-887-0929 F

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



CONSULTANT
PDS
Punch Design & Construction Inc.

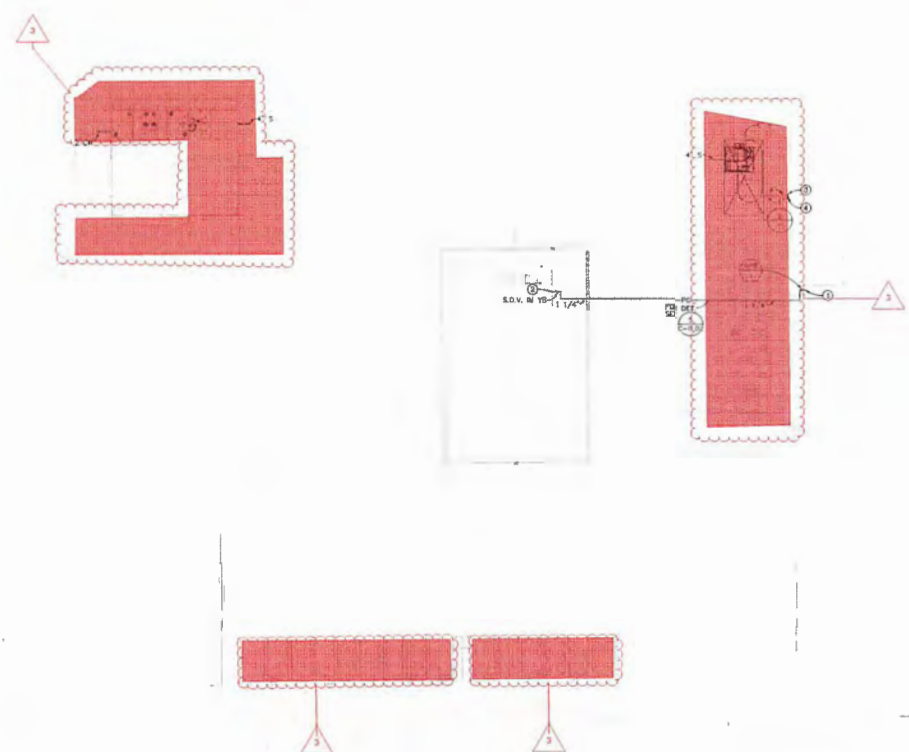
NO	DATE	BY	DESCRIPTION
1	5/23/24		Revision 3 Change Close 1
REVISIONS			

DATE: 12/22/2023 SCALE:
PROJECT NUMBER: 230075

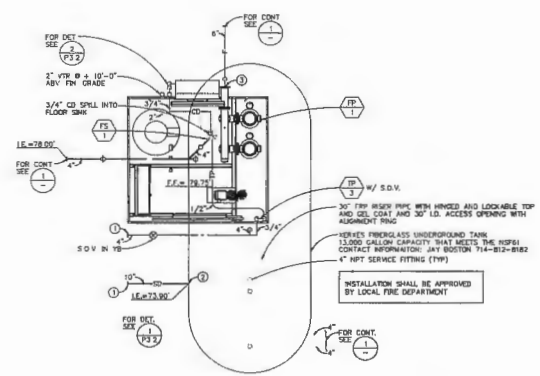
PLUMBING
SITE PLAN

DRAWING NUMBER: P1.1

THIRD SUBMITTAL



PLACENTIA AVENUE



- CONSTRUCTION KEY NOTES:**
- FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS
 - P.C.C. NEW 10" STORM DRAIN LINE TO UNDERGROUND TANK LINE BELOW GRADE. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
 - P.C.C. NEW 4" FIRE LINE TO ABOVE GRADE FIRE PUMP CONNECTION. FIELD VERIFY EXACT LOCATION PRIOR TO INSTALLATION OF ANY PIPING.
- CONSTRUCTION NOTES:**
- TANK INSTALLATION SHALL COMPLY WITH NFPA 30, TO A 300 AND ALL APPLICABLE CODES, STANDARD PRACTICES OF THE TRADE AND AUTHORITIES HAVING JURISDICTION AND TANK MFG INSTRUCTIONS.
 - CONTRACTOR SHALL OBTAIN ENVIRONMENTAL HEALTH SERVICES APPROVAL OF UNDERGROUND FUEL TANKS BEFORE INSTALLATION.
 - ANCHORING TANK AND DEADMAN SHALL BE INSTALLED PER TANK MANUFACTURER RECOMMENDATIONS.

- CONSTRUCTION NOTES:**
- FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS
 - BEFORE COMMENCEMENT OF WORK, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATIONS AND CHARACTERISTICS OF ALL UTILITIES AND PIPING BY PHYSICAL EXCAVATION AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
 - THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND POINTS OF CONNECTION PRIOR TO BIDDING PROJECT.
 - WHERE PLANS INDICATE NEW FITTINGS OR EQUIPMENT CONNECTING TO EXISTING SERVICES, PLUMBING CONTRACTOR SHALL VERIFY AND/OR EXTEND EXISTING PIPING OR ROUGH-IN AS REQUIRED TO SUIT THE NEW FITTING.
- CONSTRUCTION KEY NOTES:**
- P.C.C. 1 1/4" PG TO VAPOR OUTLET WITH FISHER S.O.V. FISHER HYDROSTATIC WALK-ON AND FANFOLD FLEX CONNECTOR TO EXISTING PROPANE TANK.
 - CONTRACTOR SHALL FIELD VERIFY AND CAP FOR 1 1/4" PG LINE TO TONER EQUIPMENT.
 - 4" TANK VENT & ROOFCHECK DOWN @ + 18" ABOVE FINISH GRADE WITH INSECT SCREEN.
 - 4" OVERFLOW DRAIN FOR TANK & ROOFCHECK @ + 18" ABOVE FINISH GRADE WITH INSECT SCREEN.

PARTIAL PLUMBING SITE PLAN

SCALE: 1/4"=1'-0" 2

PLUMBING SITE PLAN

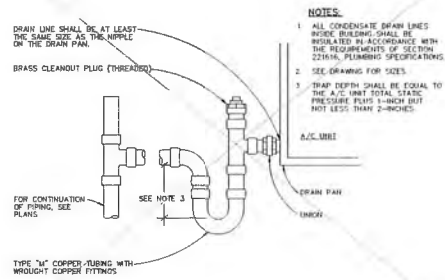
NORTH
SCALE: 1"=20'-0" 1



RANCHO CUCAMONGA
 #183 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 908-987-0909 P

COSTA MESA FIRE TRAINING CENTER

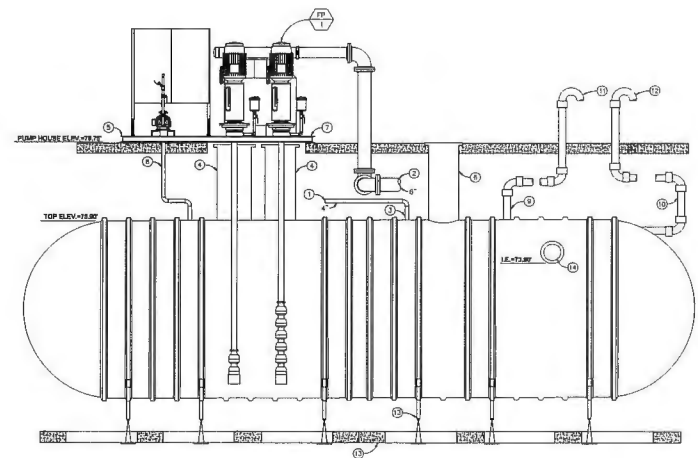
CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



- NOTES:**
1. ALL CONDENSATE DRAIN LINES INSIDE BUILDING SHALL BE INSULATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 221616, PLUMBING SPECIFICATIONS.
 2. SEE DRAWING FOR SIZES.
 3. TRAP DEPTH SHALL BE EQUAL TO THE A/C UNIT TOTAL STATIC PRESSURE PLUS 3-INCH BUT NOT LESS THAN 2-INCHES.

CONDENSATE TRAP DETAIL

SCALE: NONE 2



- CONSTRUCTION KEY NOTES:**
1. FOR CONTINUATION OF ALL UTILITIES SEE CIVIL ENGINEERING DRAWINGS.
 2. FOR CONTINUATION OF ALL UTILITIES SEE SHEET P1-1.
 3. 4" MAKE-UP WATER WITH SELF-CONTAINED SOLENOID CONTROL VALVE.
 4. VERTEX CORPORATION MODEL ACSR, 24" X 48" FIBERGLASS MAINWAY RISER WITH 32" DIA. ACCESS OPENING WITH LID AND NSF-APPROVED FFP LACQUER FIRE WATER BOOSTER PUMP SKID.
 5. 30" FFP RISER PIPE WITH HINGED AND LOCKABLE TOP ACCESS FLAT AND 30" DIA. ACCESS OPENING WITH ALUMINUM FPPIC.
 6. ANCHOR POINTS, PROMADE 1/2" DIA. HLTU, KB-TZ, 4" EMBED, ICC ESR-1817 (TYP).
 7. 2" RE-CIRCULATING WATER, TYPE 'M' COPPER TUBING WITH WROUGHT COPPER SWEAT FITTINGS, WITH RECRIC INJECTION MANIFOLD SPECIFIC TO RISER TANK.
 8. 4" TANK VENT, PVC DWV SCHEDULE 40 PIP, ASTM D 1784 WITH SOLVENT CEMENT FITTINGS. SEE SHEET P1-1 & DETAIL NO. 3.
 9. 4" OVERFLOW DRAIN FOR TANK, PVC DWV SCHEDULE 40 PIP, ASTM D 1784 WITH SOLVENT CEMENT FITTINGS. SEE SHEET P1-1 & DETAIL NO. 3.
 10. 4" TANK VENT & COOSNECKED DOWN @ + 18" ABOVE FINISH GRADE WITH INSECT SCREEN.
 11. 4" OVERFLOW DRAIN FOR TANK & COOSNECKED DOWN @ + 18" ABOVE FINISH GRADE WITH INSECT SCREEN.
 12. VERTEX PRECAST FLOWMETER SYSTEM WITH HOLD DOWN STRAP AND TURNBUCKLE ASSEMBLY (TYP).
 13. 10" PVC SDR 35 DRAINAGE PIPE AND SHEET C-101 FOR CIVIL DRAWINGS FOR CONTINUATION.

FIRE WATER BOOSTER PUMP AND STORAGE TANK DETAIL

SCALE: NONE 1



NO.	DATE	BY	DESCRIPTION

DRAWN: _____ CHECKED: _____
 DATE: 12/22/2023 SCALE: _____
 PROJECT NUMBER: 230075

PLUMBING DETAILS

DRAWING NUMBER: **P3.2**

THIRD SUBMITTAL



RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-507-0057

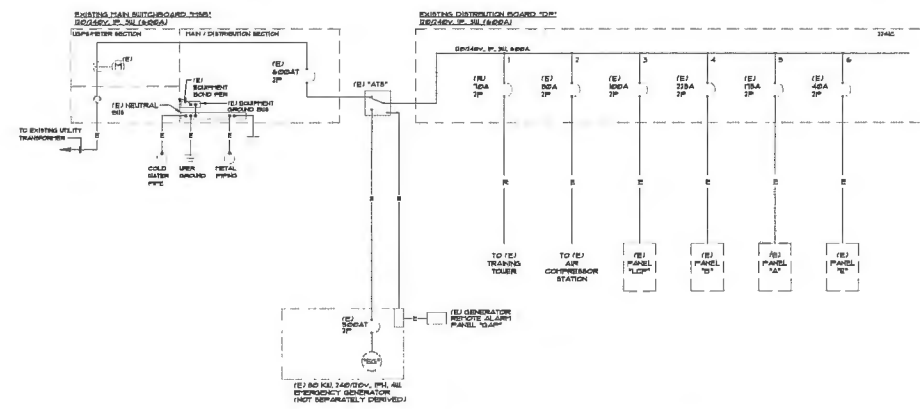
COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627

SINGLE LINE DIAGRAM NOTES

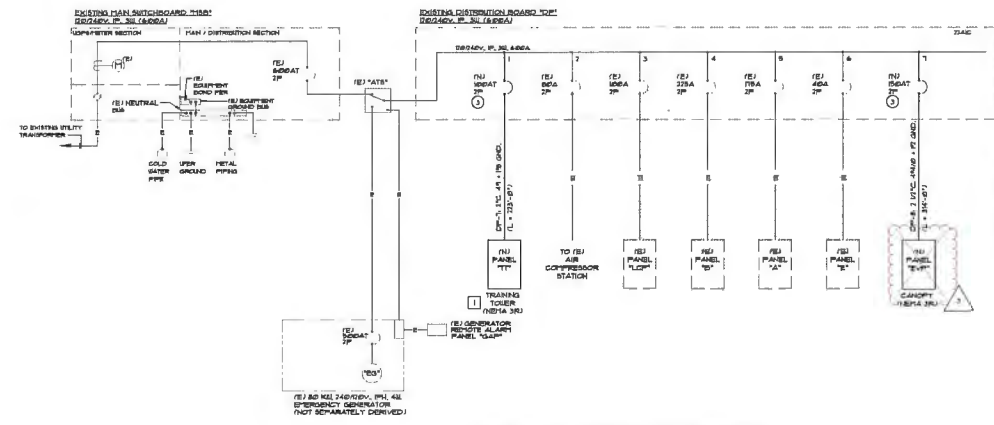
- 1 REFER TO GENERAL NOTES DRAWING SET FOR ADDITIONAL REQUIREMENTS
- 2 CONTRACTOR TO PROVIDE UPDATED NAME PLATES TO IDENTIFY THE NEW CIRCUIT BREAKERS WITHIN THE MAIN SWITCH BOARD UPON COMPLETION OF NEW WORK.
- 3 NEW CIRCUIT BREAKER TO MATCH EXISTING IN MANUFACTURE AND SHORT CIRCUIT DUTY

GENERAL NOTES

- 1 TRAINING TOWER TO BE UNDER A SEPARATE PERMIT



DEMOLITION SINGLE LINE DIAGRAM



REMODEL SINGLE LINE DIAGRAM

"DP" LOAD SUMMARY

EXISTING LOAD	3040 A
0.5% PER NEC 220-91	510 A
NEW PANEL "TT" (HIGH PHASE)	860 A
NEW PANEL "EVP" (HIGH PHASE)	1060 A
TOTAL LOAD	4860 A

1 EXISTING LOAD PER AS-BUILT DRAWINGS

EXISTING PANEL "LCP"

LINE NUMBER	WIRE SIZE	WIRE TYPE	CONDUCTORS	NEUTRAL	GROUND	NEAR SURFACE	NEAR SURFACE	NEAR SURFACE
1	1/2"	THHN	3	1	1	1	1	1
2	1/2"	THHN	3	1	1	1	1	1
3	1/2"	THHN	3	1	1	1	1	1
4	1/2"	THHN	3	1	1	1	1	1
5	1/2"	THHN	3	1	1	1	1	1
6	1/2"	THHN	3	1	1	1	1	1

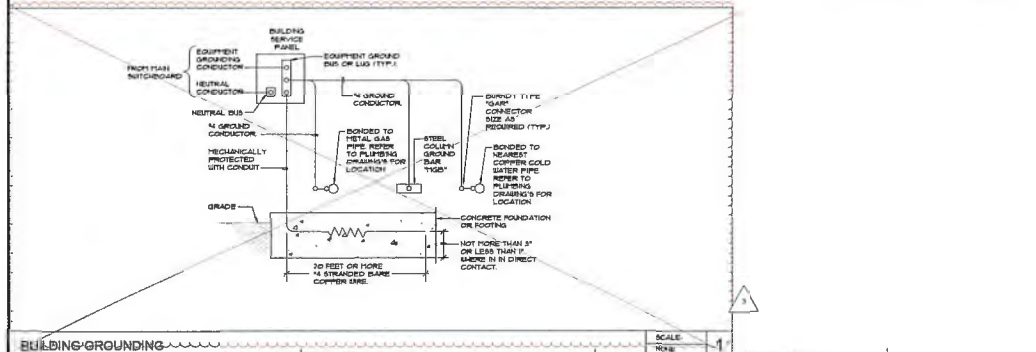
1 EXISTING LOAD TO REMAIN
2 NEW LOAD AND NEW CIRCUIT BREAKER AT EXISTING SPACE NEW CIRCUIT BREAKER TO MATCH EXISTING IN MANUFACTURE AND DUTY

NEW PANEL "TT"

LINE NUMBER	WIRE SIZE	WIRE TYPE	CONDUCTORS	NEUTRAL	GROUND	NEAR SURFACE	NEAR SURFACE	NEAR SURFACE
1	1/2"	THHN	3	1	1	1	1	1
2	1/2"	THHN	3	1	1	1	1	1
3	1/2"	THHN	3	1	1	1	1	1
4	1/2"	THHN	3	1	1	1	1	1
5	1/2"	THHN	3	1	1	1	1	1
6	1/2"	THHN	3	1	1	1	1	1

NEW PANEL "EVP"

LINE NUMBER	WIRE SIZE	WIRE TYPE	CONDUCTORS	NEUTRAL	GROUND	NEAR SURFACE	NEAR SURFACE	NEAR SURFACE
1	1/2"	THHN	3	1	1	1	1	1
2	1/2"	THHN	3	1	1	1	1	1
3	1/2"	THHN	3	1	1	1	1	1
4	1/2"	THHN	3	1	1	1	1	1
5	1/2"	THHN	3	1	1	1	1	1
6	1/2"	THHN	3	1	1	1	1	1



CONSULTANT
A&P ENGINEERING GROUP, INC.
400 S. GARDEN ST., SUITE 200, COSTA MESA, CA 92626
TEL: 949-261-8888 FAX: 949-261-8889

NO.	DATE	BY	DESCRIPTION
1	5/3/2024	Revision 3	Change Other 1

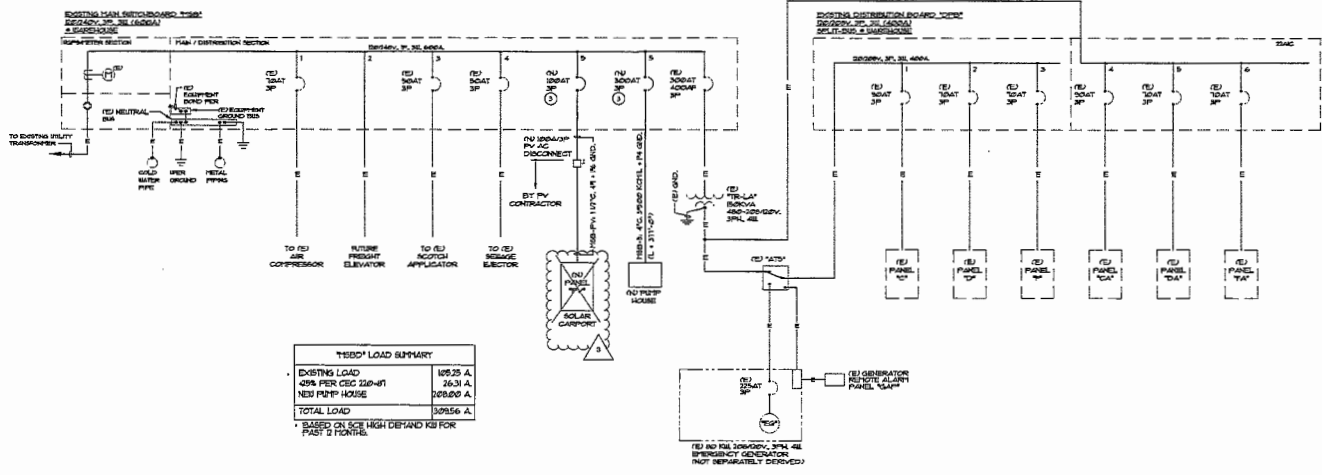
DRAWN: CBF CHECKED: RES
DATE: 12/05/2023 SCALE: AS NOTED
PROJECT NUMBER: 230075

SINGLE LINE DIAGRAM AND LOAD SCHEDULES
DRAWING NUMBER: E0.2



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3185 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-476-0131

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CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



"MSB" LOAD SUMMARY

EXISTING LOAD	158.25 A.
12% PER NEC 220-41	26.3 A.
NEW PUMP HOUSE	208.00 A.
TOTAL LOAD	392.55 A.

* BASED ON ONE HIGH DEFEND KSI FOR PUMP HOUSE

PV - "MSB" BUS SIZING *

"MSB" MAIN CIRCUIT BREAKER	600 A.
PV SYSTEM CIRCUIT BREAKER	100 A.
SUM OF CIRCUIT BREAKERS	700 A.

* PER 2022 NEC ARTICLE 705.12(2)(3)(5)
120% OF 600A BUS = 720A.
720A - 500A = 220A
120A > 100A

PV POWER SUMMARY

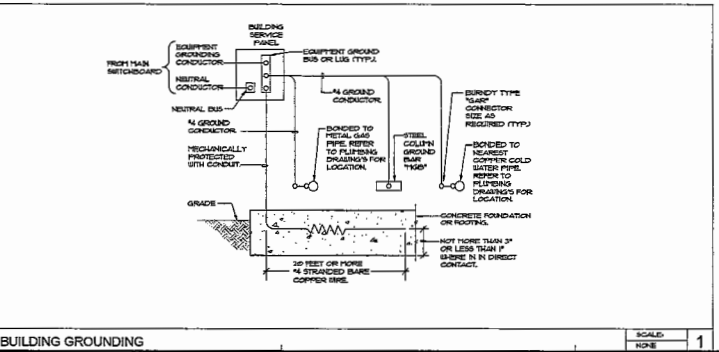
ARRAY	BILLING	NUMBER OF	WIRE	PTC KW	AC KW
CONDUIT	CONDUIT	MODULES	SIZE	TOTAL	TOTAL
SE	20"	21,676	2	21.98	21.98
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL

VOLTAGE DROP

FEEDER/CIRCUIT IDENTIFICATION	LOAD	WIRE SIZE	WIRE PER PHASE	CONDUCTOR TYPE	OHMS PER 100 FT.	RESISTANCE PER 100 FT.	FEEDER LENGTH	CONNECTED AMP'S	AMPS PER CONDUCTOR	LINE TO NEUTRAL VOLTAGE DROP	LINE TO LINE VOLTAGE DROP	% VOLTAGE DROP
MESSS	PUMP HOUSE	500	1	F	0.340	0.37	200	200.6	200.6	3.37	6.04	2.43%

SINGLE LINE DIAGRAM NOTES

- REFER TO GENERAL NOTES DRAWING 848 FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO PROVIDE UPDATED NAME PLATES TO IDENTIFY THE NEW CIRCUIT BREAKERS UPON THE MAIN SWITCH BOARD UPON COMPLETION OF NEW WORK.
- NEW CIRCUIT BREAKER TO MATCH EXISTING IN MANUFACTURE AND SHORT CIRCUIT CAP.



SCALE: 1/8" = 1'-0"



CONSULTANT
AEP ENGINEERING GROUP, INC.
1000 WEST 10TH STREET, SUITE 200, COSTA MESA, CA 92627
TEL: 949-440-1111 FAX: 949-440-1112

DATE	BY	DESCRIPTION
6/23/24		Revision 3, Change Order 1
REVISIONS		
DRAWN:	CHKD:	CHECKED:
DATE: 12/25/2023	SCALE: AS NOTED	
PROJECT NUMBER: 230075		

SINGLE LINE DIAGRAM AND LOAD SCHEDULES

DRAWING NUMBER: **E0.3**



RANCHO CUCAMONGA
 8183 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-887-0267

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



CONSULTANT

A&P ENGINEERING GROUP, INC.
 2000 SERRA LOMA BLVD., SUITE 100, COSTA MESA, CA 92626
 (714) 440-1100

NO	DATE	BY	DESCRIPTION
Δ	02/05/24		Revision 1 Change Order 1
Δ	02/05/24		Addendum 2
REVISIONS			

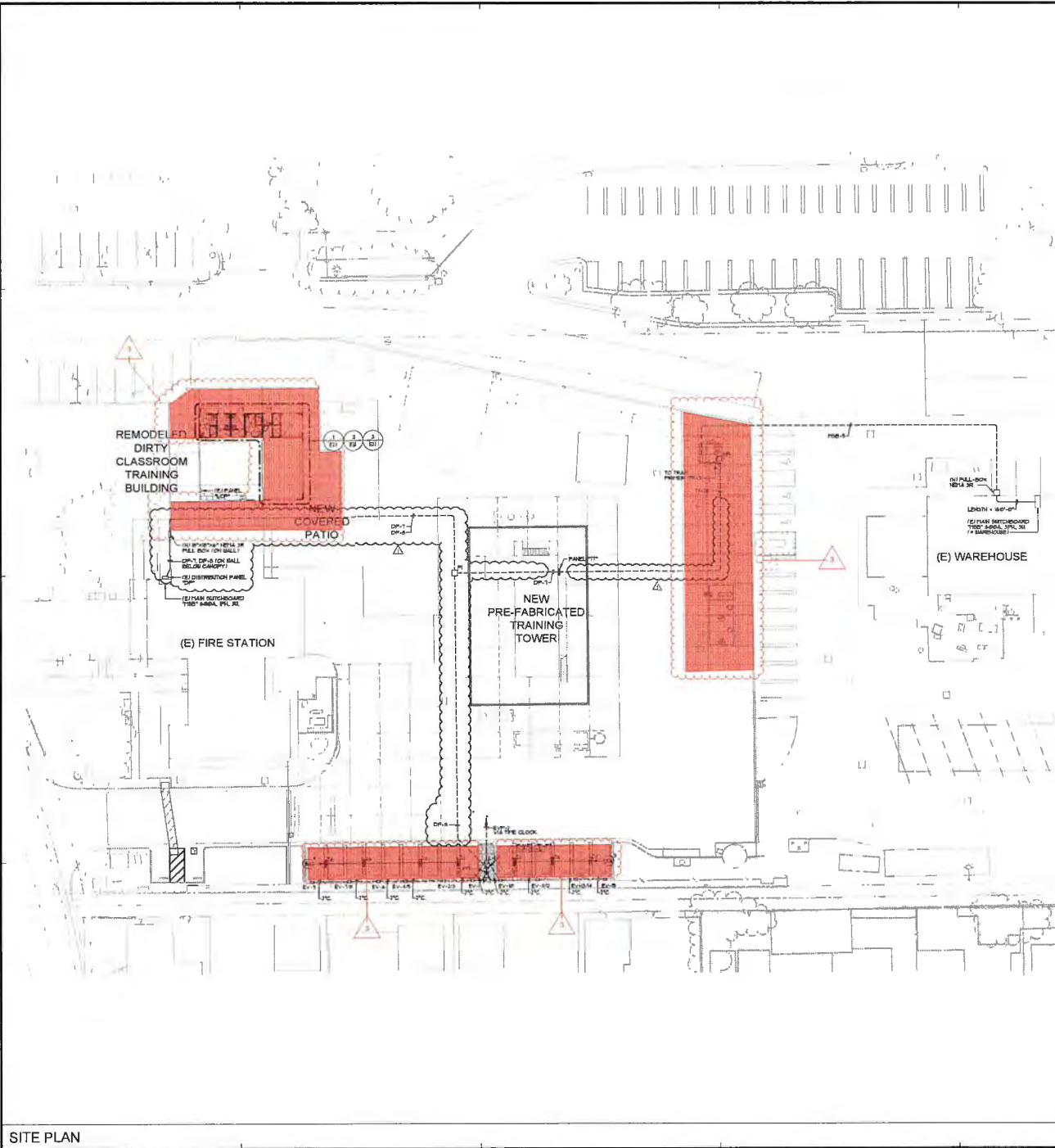
DRAWN: CBF CHECKED: RES
 DATE: 02/05/2024 SCALE: AS NOTED
 PROJECT NUMBER: 230075

SITE PLAN

DRAWING NUMBER: **E1.1**

PLAN NOTES:

- ① REFER TO GENERAL NOTES DRAWING E01 FOR ADDITIONAL REQUIREMENTS
- ② EXTERIOR MOUNTED DEVICES / RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS AND BE UL LISTED FOR USE. LOCATIONS MARK'D IN UDC COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL. PLASTIC COVERS NOT ALLOWED.



UNDERGROUND PULLBOX SCHEDULE

ID	SIZE	TYPE	COVER	COVER I.D.
EV-1	8" x 11"	CONCRETE	STEEL TRAFFIC COVER	POWER
LI	8" x 11"	CONCRETE	STEEL TRAFFIC COVER	LIGHTING
EV-X	8" x 11"	CONCRETE	STEEL TRAFFIC COVER	VEHICLE CHARGER

SCHEDULE NOTES:
 1. 8" x 11" UNDERGROUND PULLBOXES SHALL BE RACOQS 344FD SERIES OR APPROVED EQUAL. PROVIDE WITH BOLT-ON TRAFFIC COVERS.



SITE PLAN

1" = 20'-0" 1



RANCHO CUCAMONGA
8183 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-857-0287

COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



CONSULTANT
A&P ENGINEERING GROUP, INC.
FOR DESIGN AND ENGINEERING SERVICES
11000 SHELTON AVENUE, SUITE 200, COSTA MESA, CA 92626
TEL: 949-261-1100 FAX: 949-261-1101

NO	DATE	BY	DESCRIPTION
REVISIONS			
Δ	5/23/24		Revision 3, Change Order 1

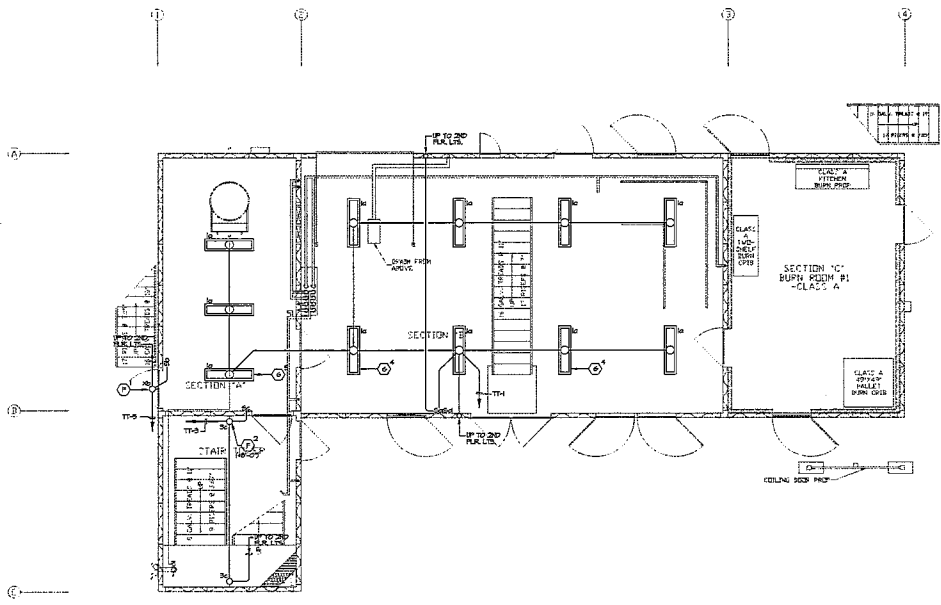
DRAWN: CBF CHECKED: RES
DATE: 12/05/2023 SCALE: AS NOTED
PROJECT NUMBER: 230075

TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: **E3.1**

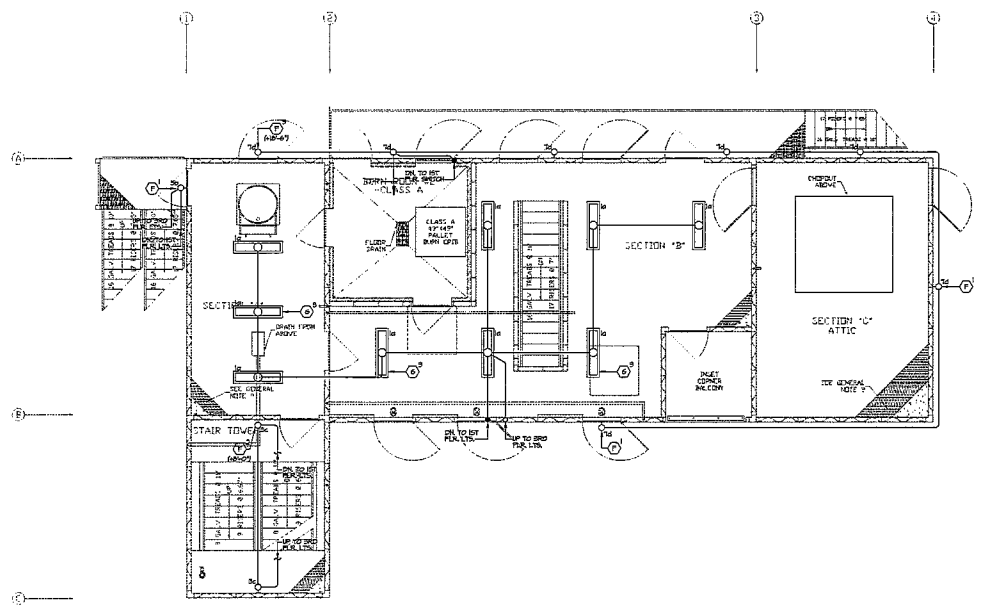
- PLAN NOTES:**
- REFER TO GENERAL NOTES, DRAWING E01, FOR ADDITIONAL REQUIREMENTS.
 - USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS AND BOXES FOR ALL RACIBANDS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FIXTURES.
 - REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING E01, FOR TYPE OF FIXTURES TO BE PROVIDED AND INSTALLED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.



FIRST FLOOR TRAINING TOWER LIGHTING PLAN

1/4" = 1'-0" 1



SECOND FLOOR TRAINING TOWER LIGHTING PLAN

1/4" = 1'-0" 2

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RANCHO CUCAMONGA
8163 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
924-987-4923

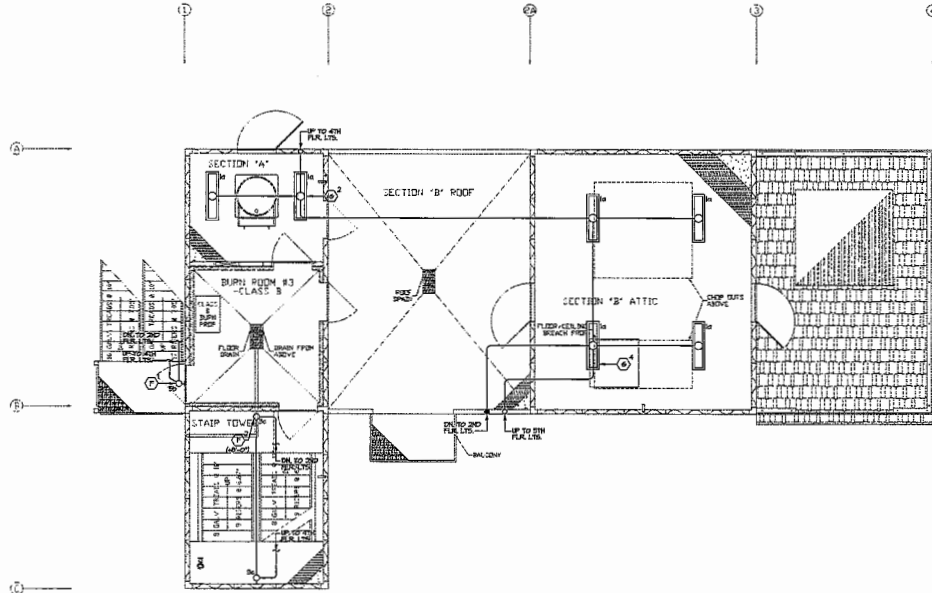
COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627

PLAN NOTES:

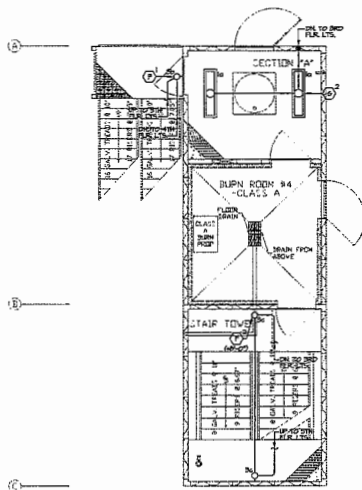
- ① REFER TO GENERAL NOTES DRAWING 801 FOR ADDITIONAL REQUIREMENTS.
- ② USE PVC SCHEDULE 40 DR 20 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL RACINGS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FITTINGS.
- ③ REFER TO LIGHTING FIXTURE SCHEDULE DRAWING 801, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
- ④ THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND PROVIDING WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.



THIRD FLOOR TRAINING TOWER LIGHTING PLAN

1/4" = 1'-0" 1



LOWER 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"



FOURTH FLOOR TRAINING TOWER LIGHTING PLAN

1/4" = 1'-0" 2 NOT USED

3



CONSULTANT	
A&P ENGINEERING GROUP, INC. 1000 AVENUE 42, SUITE 6, COSTA MESA, CA 92626 (714) 440-0000 FAX (714) 440-0001	
NO	DATE BY DESCRIPTION
Δ	5/23/24 Revision 3, Change Order 1
REVISIONS	
DRAWN:	CBF
CHECKED:	RES
DATE:	12/05/2023
SCALE:	AS NOTED
PROJECT NUMBER:	230075

TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: E3.2

2023.08.09.14.1

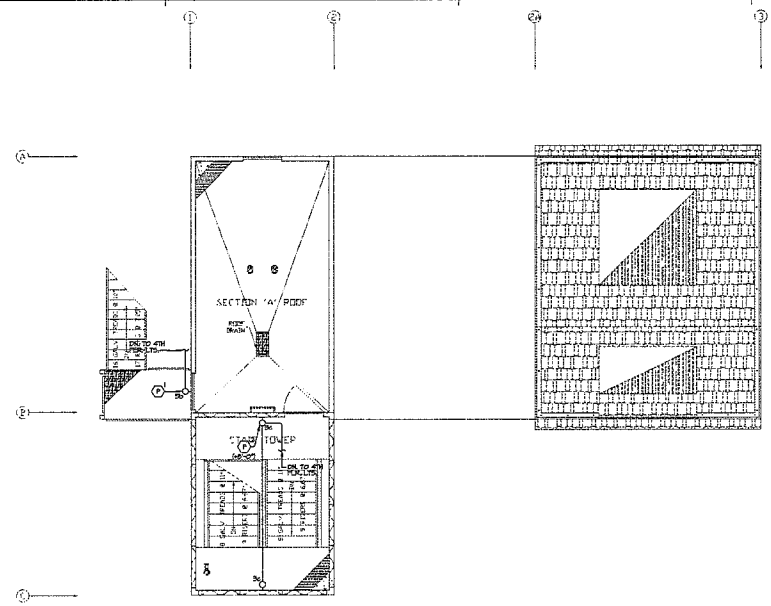


RANCHO CUCAMONGA
8165 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-385-0265 F

COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627

- PLAN NOTES:**
- ① REFER TO GENERAL NOTES, DRAWING 801, FOR ADDITIONAL REQUIREMENTS.
 - ② USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS AND BOXES FOR ALL RACQUAIS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/FITTINGS.
 - ③ REFER TO LIGHTING FIXTURE SCHEDULE, DRAWING 801, FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
 - ④ THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL CEILING MOUNTED FIXTURES AND DEVICES WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

NO EXPOSED CONDUIT WILL BE ALLOWED.

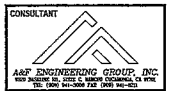


FIFTH FLOOR TRAINING TOWER LIGHTING PLAN

1/4" = 1'-0" 1

NOT USED

2



NO	DATE	BY	DESCRIPTION
△	5/23/24		Revision 3, Change Order 1
REVISIONS			
DRAWN:	CSF	CHECKED:	RES
DATE:	12/05/2023	SCALE:	AS NOTED
PROJECT NUMBER: 230075			

TRAINING TOWER LIGHTING PLANS

DRAWING NUMBER: **E3.3**

3RD SUBMITTAL



RANCHO CUCAMONGA
 6162 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-957-0000

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



CONSULTANT

A&P ENGINEERING GROUP, INC.
 2022 REDWOOD BLVD., SUITE 200, COSTA MESA, CA 92626
 TEL: 714-440-8888 FAX: 714-440-8889

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1	12/05/2023	CRF	Revision 3, Change Order 1

DRAWN: CRF CHECKED: RES
 DATE: 12/05/2023 SCALE: AS NOTED
 PROJECT NUMBER: 230075

**TRAINING TOWER
 POWER PLANS**

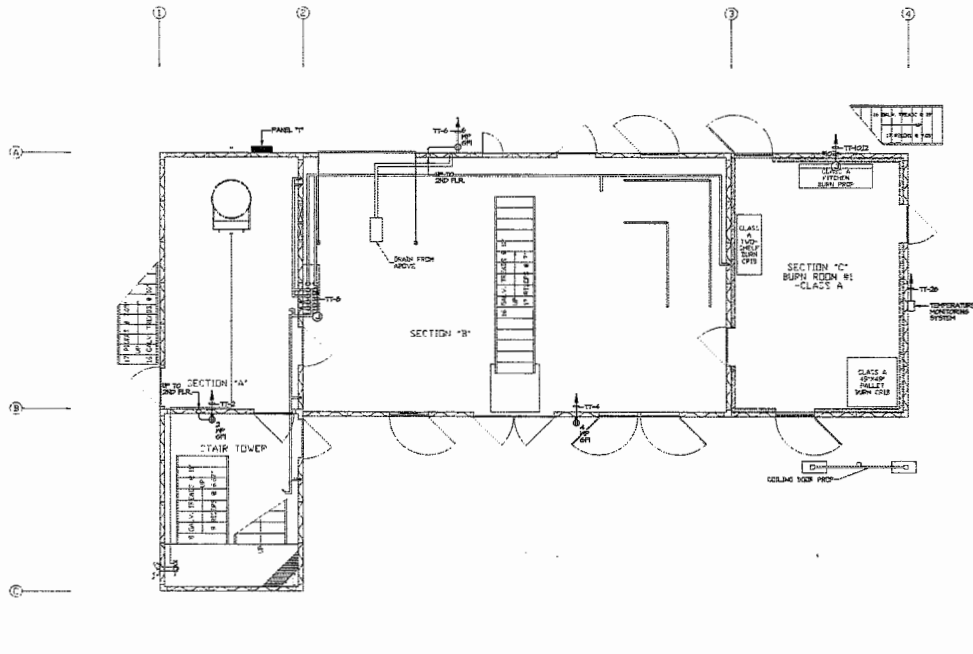
DRAWING NUMBER: **E3.4**

3/03 QUANTITATIVE

PLAN NOTES:

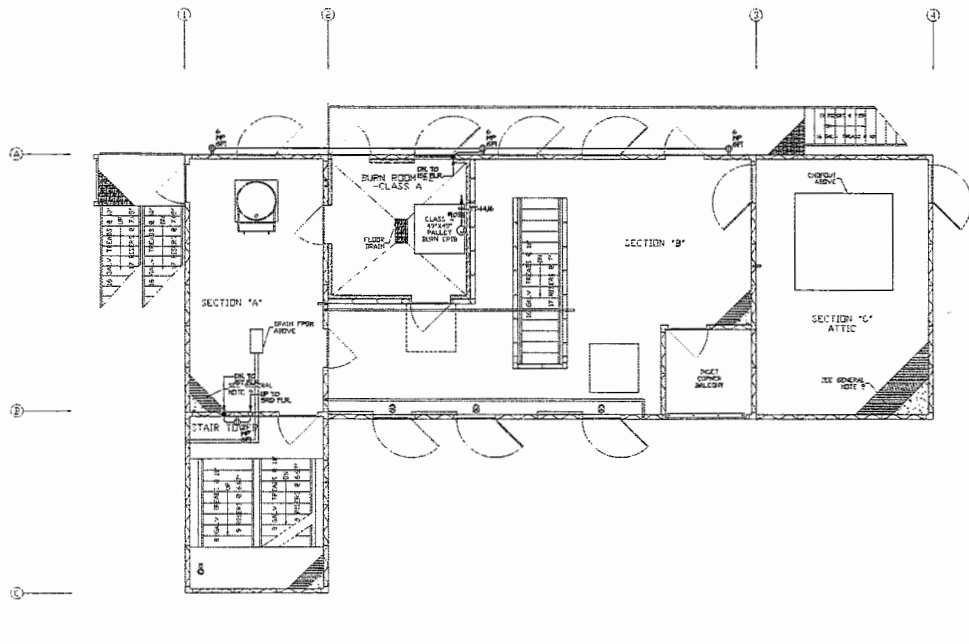
- REFER TO GENERAL NOTES, DRAWING E01, FOR ADDITIONAL REQUIREMENTS.
- USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BUNDLES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAIRWELL SIZES, HARDWARE (SCREWS, BRACKETS, ETC) FOR MOUNTING OF EQUIPMENT/ENCLOSURES.
- EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROOM-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCE WITH OTHER OUTLETS AND GASWORK.
- SEE SINGLE LINE DIAGRAM DRAWING E03 FOR CONDUIT SIZE AND RING SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
- CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- EXTERIOR MOUNTED RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS. COVERS SHALL BE AS MANUFACTURED BY RAGO OR APPROVED EQUAL.

NO EXPOSED CONDUIT WILL BE ALLOWED.



FIRST FLOOR TRAINING TOWER POWER PLAN

1/4" = 1'-0" 1



SECOND FLOOR TRAINING TOWER POWER PLAN

1/4" = 1'-0" 2

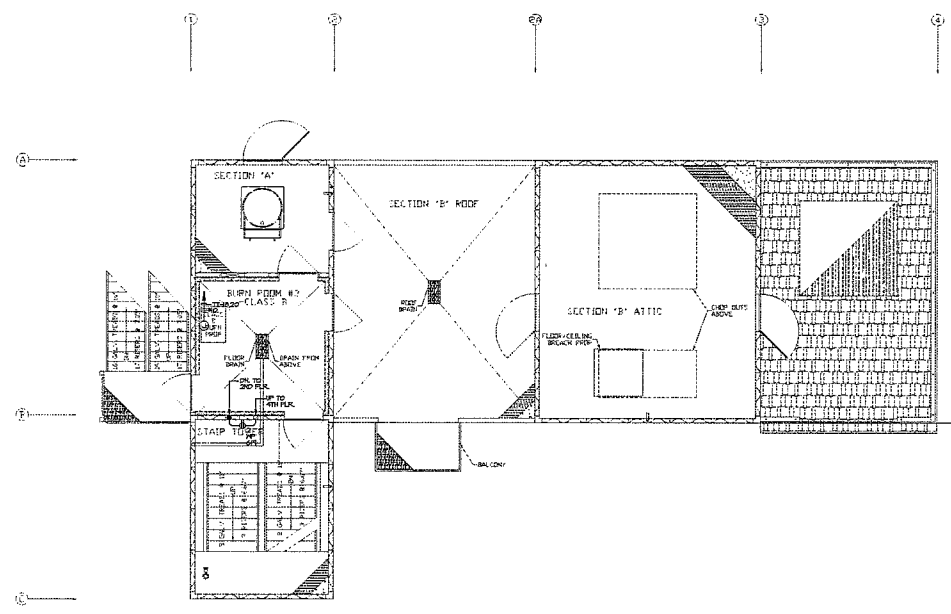


RANCHO CUCAMONGA
8165 ROCHESTER AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91730
909-987-0267 F

COSTA MESA FIRE TRAINING CENTER
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627

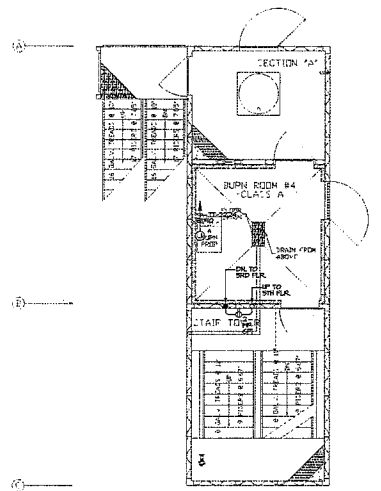
- PLAN NOTES:**
- REFER TO GENERAL NOTES, DRAWING 801, FOR ADDITIONAL REQUIREMENTS.
 - USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS, AND BOXES FOR ALL CONDUITS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/DEVICES.
 - EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO BEGINNING AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCE WITH OTHER OUTLETS AND GROUNDING.
 - SEE SINGLE LINE DIAGRAM DRAWING 802 FOR CONDUIT SIZE AND HERE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
 - CONDUIT AND WIRE INDICATED ON THE SINGLE LINE DIAGRAM (WHETHER SHOWN ON THIS DRAWING OR NOT), SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUTING TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
 - EXTERIOR MOUNTED RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOGGING TYPE WEATHERPROOF COVER. COVERS SHALL BE AS MANUFACTURED BY RAGO OR APPROVED EQUAL.

NO EXPOSED CONDUIT WILL BE ALLOWED.



THIRD FLOOR TRAINING TOWER POWER PLAN

1/4" = 1'-0" 1



FOURTH FLOOR TRAINING TOWER POWER PLAN

1/4" = 1'-0" 2 NOT USED

3



CONSULTANT
A&P ENGINEERING GROUP, INC.
1000 S. RIVER ST., SUITE 200, COSTA MESA, CA 92626
TEL: 949-266-0000 FAX: 949-266-0001

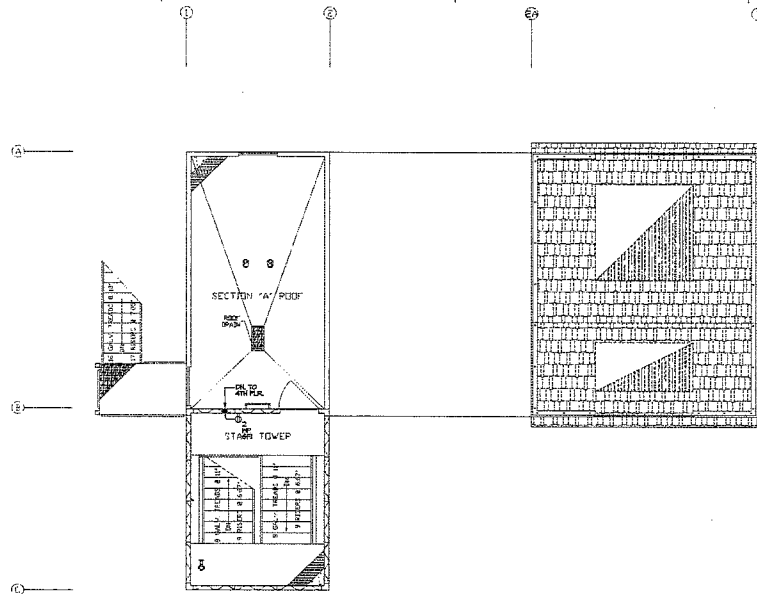
NO.	DATE	BY	DESCRIPTION
REVISIONS			
Δ	5/23/24		Revision 1, Change Order 1

DRAWN: CBF CHECKED: RES
DATE: 12/05/2023 SCALE: AS NOTED
PROJECT NUMBER: 230073

TRAINING TOWER POWER PLANS

DRAWING NUMBER: **E3.5**

303 SUBSTITUTAL



PLAN NOTES:

- ① REFER TO GENERAL NOTES, DRAWING E01, FOR ADDITIONAL REQUIREMENTS.
- ② USE PVC SCHEDULE 40 OR 80 CONDUIT AND NON-METALLIC FITTINGS. AND BOXES FOR ALL RACEWAYS INSTALLED IN THIS BUILDING. USE STAINLESS STEEL HARDWARE (SCREWS, BRACKETS, ETC.) FOR MOUNTING OF EQUIPMENT/DEVICES.
- ③ EXACT LOCATION OF OUTLETS SHOWN ON THESE DRAWINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROOM-IN AND SHALL BE LOCATED IN SUCH A MANNER TO AVOID INTERFERENCES WITH OTHER OUTLETS AND CASINGWORK.
- ④ SEE SINGLE LINE DIAGRAM DRAWING E02 FOR CONDUIT SIZE AND WIRE SIZE AND QUANTITIES REQUIRED FOR ALL ELECTRICAL EQUIPMENT.
- ⑤ LENGTH AND WIRE DESIGNATED ON THE SINGLE LINE DIAGRAM, WHETHER SHOWN ON THIS DRAWING OR NOT, SHALL BE A PART OF THIS CONTRACT AND THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE REQUIRED ROUNDS TO MEET THE INTENT OF THESE PLANS AND SPECIFICATIONS.
- ⑥ EXTERIOR MOUNTED RECEPTACLES SHALL BE PROVIDED COMPLETE WITH LOCKING TYPE WEATHERPROOF COVERS. COVERS SHALL BE AS MANUFACTURED BY RACO OR APPROVED EQUAL.

NO EXPOSED CONDUIT WILL BE ALLOWED.



FIFTH FLOOR TRAINING TOWER POWER PLAN

1/2" = 1'-0" 1

NOT USED

2



RANCHO CUCAMONGA
 8153 ROCHESTER AVENUE, SUITE 100
 RANCHO CUCAMONGA, CA 91730
 909-987-2020 F

COSTA MESA FIRE TRAINING CENTER

CITY OF COSTA MESA
 2300 PLACENTIA AVENUE
 COSTA MESA, CA 92627



CONSULTANT

A&P ENGINEERING GROUP, INC.
 400 NORTH 5TH STREET, SUITE 200, COSTA MESA, CA 92627
 TEL: 949-266-8888 FAX: 949-266-8889

NO.	DATE	BY	DESCRIPTION

DRAWN: CSF CHECKED: RES
 DATE: 12/05/2023 SCALE: AS NOTED
 PROJECT NUMBER: 230075

**TRAINING TOWER
 POWER PLANS**

DRAWING NUMBER: **E3.6**

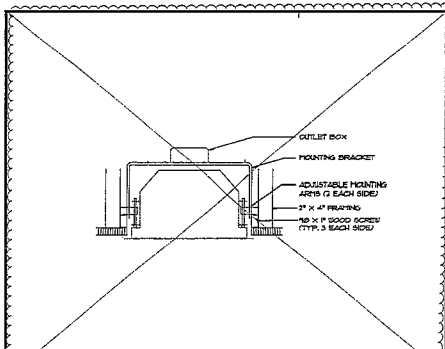
3/0 SUBMITTAL



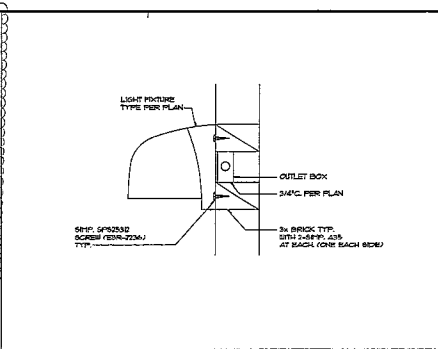
RANCHO CUCAMONGA
8165 ROOSEVELT AVENUE, SUITE 100
RANCHO CUCAMONGA, CA 91750
924-85-2628 F

COSTA MESA FIRE TRAINING CENTER

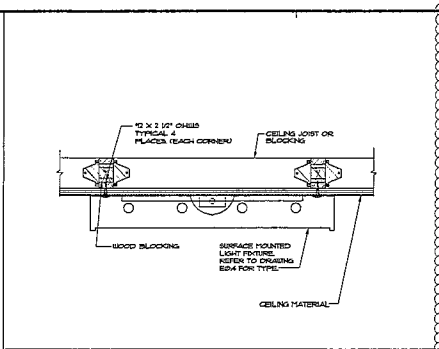
CITY OF COSTA MESA
2300 PLACENTIA AVENUE
COSTA MESA, CA 92627



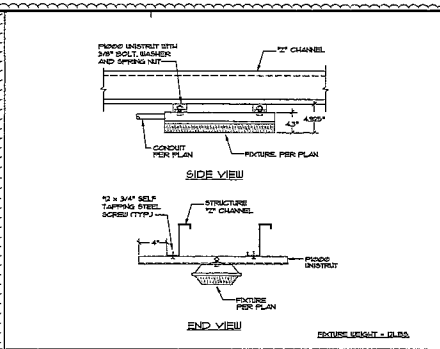
1. DM. LIGHT FIXTURE - GYP BOARD CLNG. SCALE: NONE



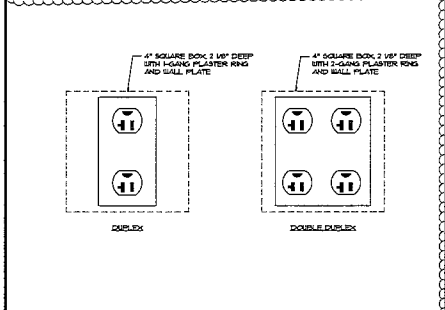
2. EXTERIOR LT. FIXTURE - WALL MTD. SCALE: NONE



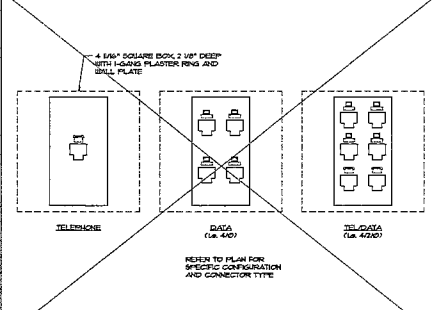
3. SURFACE MOUNTED LT. FIXTURE SCALE: NONE



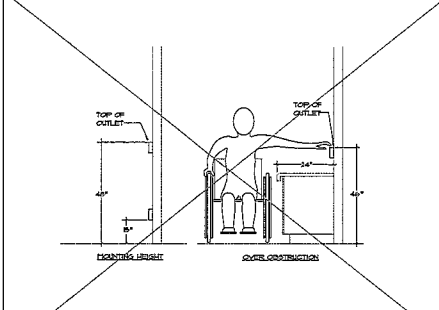
4. CANOPY LIGHT FIXTURE SCALE: NONE



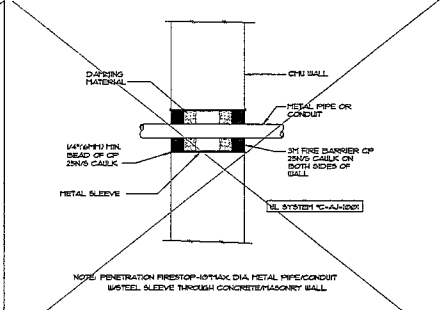
5. RECPTACLE - FLUSH MOUNTED SCALE: NONE



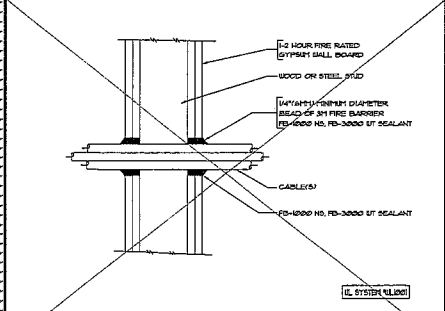
6. TEL/DATA OUTLET - FLUSH MOUNTED SCALE: NONE



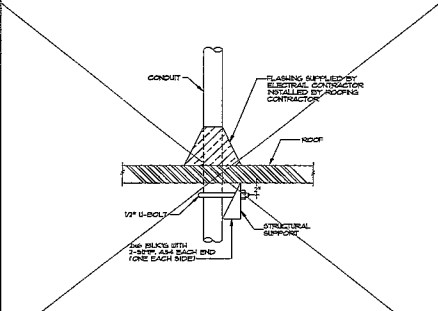
7. DEVICE MOUNTING HEIGHTS SCALE: NONE



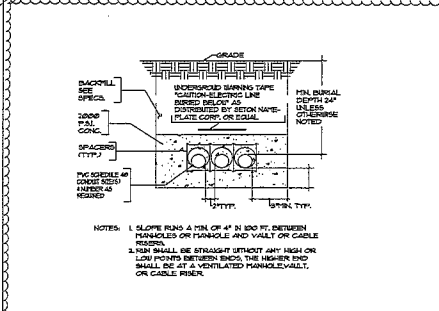
8. WALL PENETRATION DETAIL SCALE: NONE



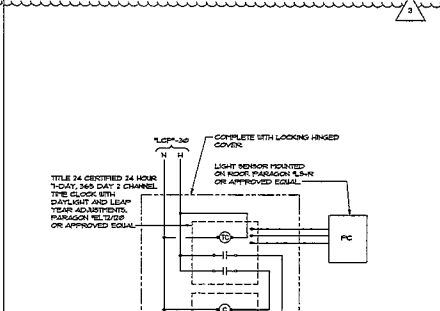
9. CABLE WALL PENETRATION DETAIL SCALE: NONE



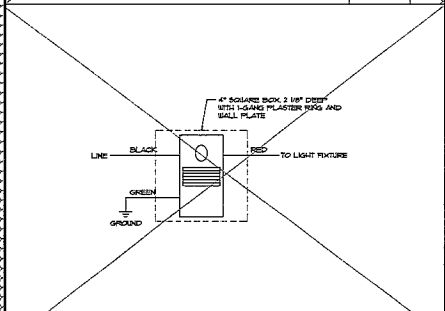
10. ROOF CONDUIT PENETRATION DETAIL SCALE: NONE



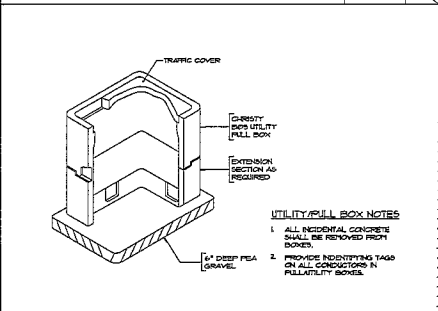
11. UNDERGROUND DUCT-BANK SCALE: NONE



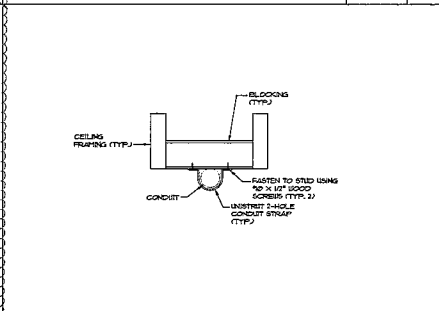
12. LIGHT FIXTURE MOUNTING DETAIL SCALE: NONE



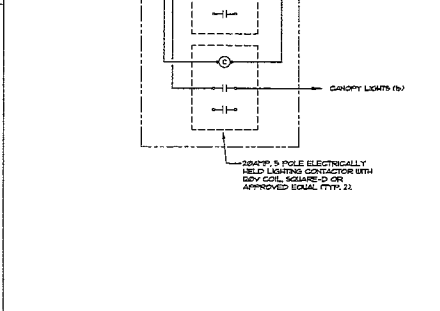
13. WALL MOUNTED - OCCUPANT SENSOR SCALE: NONE



14. UNDERGROUND PULL BOX SCALE: NONE



15. CONDUIT SUPPORT DETAIL SCALE: NONE



16. NOT USED SCALE: NONE



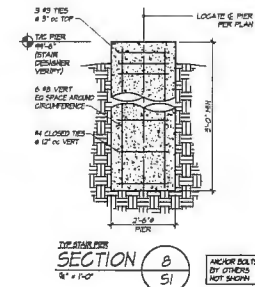
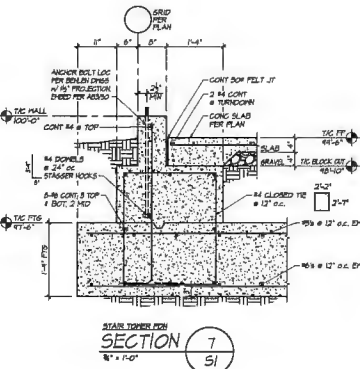
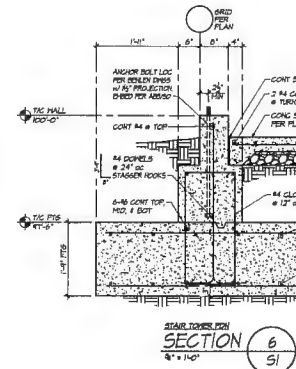
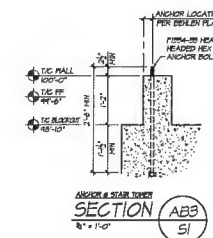
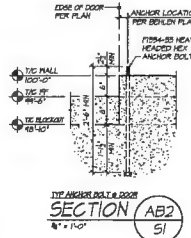
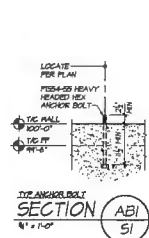
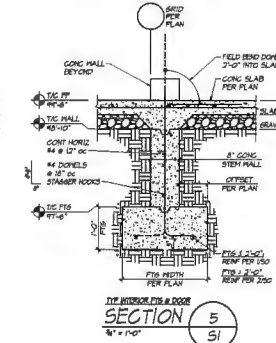
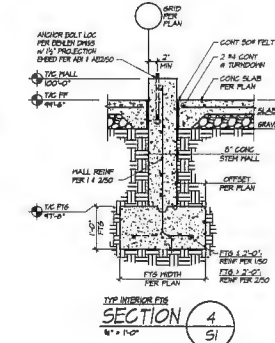
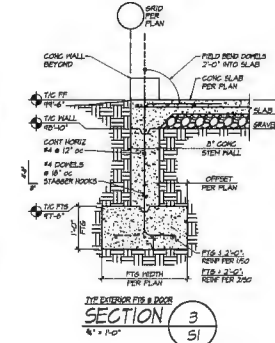
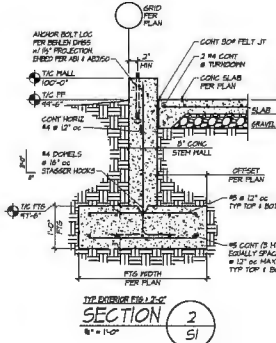
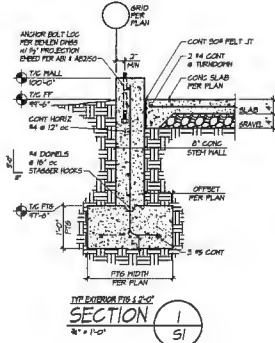
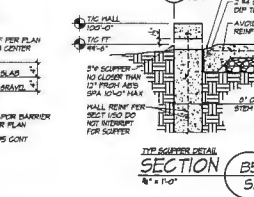
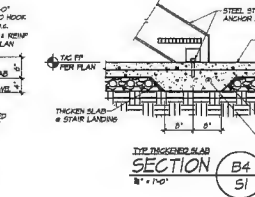
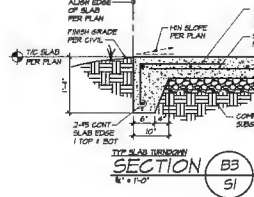
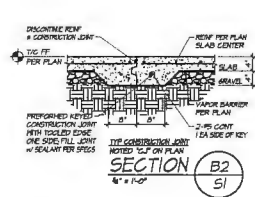
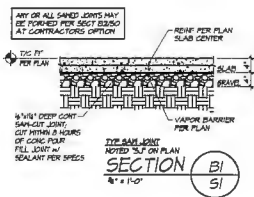
CONSULTANT
A&P ENGINEERING GROUP, INC.
800 PULVER BLVD. SUITE 200 COSTA MESA, CA 92626
TEL: 949-261-8888 FAX: 949-261-8889

NO.	DATE	BY	DESCRIPTION
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DRAWN: [] CHECKED: []
DATE: 12/05/2023 SCALE: []
PROJECT NUMBER: 230075

ELECTRICAL DETAILS
DRAWING NUMBER: E4.1

NO SUBMITTAL



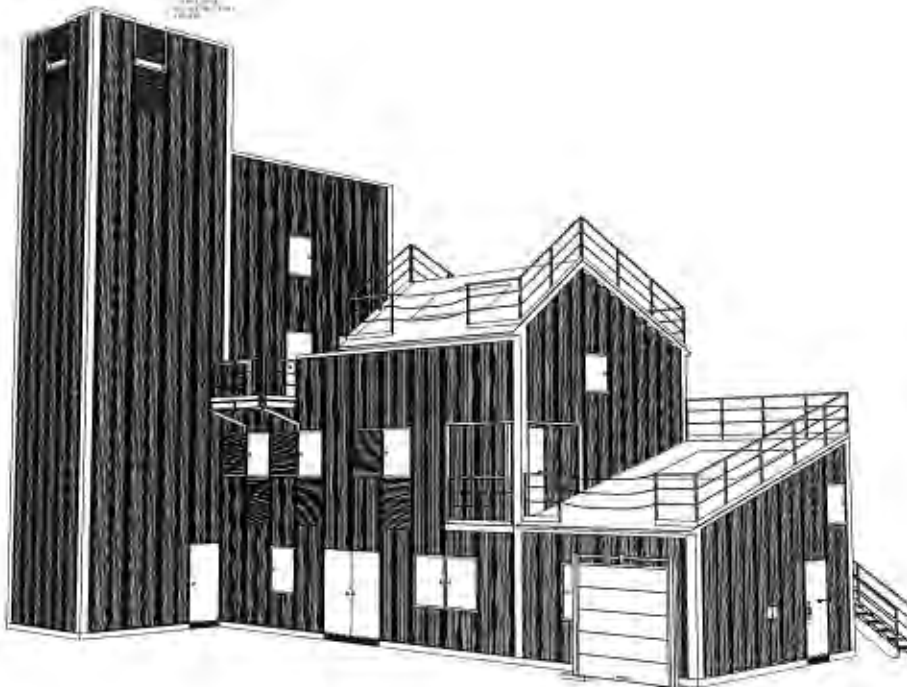
trainingtowers.com
w h p
ALUMY, D.T. & S.C., INC.
310 DUCKWOOD GRANDVIEW RD. ADDD
TEL. 913.833.9883 FAX. 913.833.7594
TOLL FREE 1.800.371.2525 www.trainingtowers.com

SAMPLE
FOUNDATION DETAILS

DRAWN BY: MJR
DESIGNED BY: MJR
CHECKED BY: AMP
DATE: 7/25/02.3
PROJECT #: WFP09.23

S1

NIC REFERENCE ONLY



**CUSTOM HIGH RISE - FIVE STORY
CITY OF COSTA MESA FIRE DEPARTMENT**

NIC REFERENCE ONLY

GENERAL NOTES

- 1) THIS INFORMATION CONFORMS TO ALL APPLICABLE STANDARDS FOR FIRE TRAINING SIMULATORS AT THE TIME OF PREPARATION.
- 2) THE ERECTION CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL MATERIALS, AT THE TIME OF DELIVERY. THIS CONTRACTOR IS ALSO RESPONSIBLE TO ACCOUNT FOR ALL MATERIALS, AT THE TIME OF DELIVERY. IF THERE IS A DISCREPANCY IN THE MATERIAL DELIVERED, CONTACT WHP TRAININGTOVERS IMMEDIATELY IN ORDER TO MAKE PROPER ARRANGEMENTS TO PROVIDE THE NECESSARY MATERIAL.
- 3) THIS SET OF DRAWINGS IS INTENDED AS A CONCEPTUAL SET, PROVIDED FOR SECONDARY REFERENCE ONLY. REFER TO BETHLON INDUSTRIES CONSTRUCTION DRAWINGS AND THE MISCELLANEOUS METALS DRAWINGS AS PRIMARY REFERENCE FOR EXACT MATERIAL, DIMENSIONS, ERECTION, AND PROCEDURES.
- 4) THESE DRAWINGS, SPECIFICATIONS, IDEAS, DESIGNS, AND ARRANGEMENTS ARE AND SHALL REMAIN THE PROPERTY OF WHP TRAININGTOVERS AND NO PART THERE OF SHALL BE COPIED, REPRODUCED, OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED WITHOUT WRITTEN CONSENT FROM WHP TRAININGTOVERS.
- 5) WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS. INSTALLING CONTRACTORS OR OWNERS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND WHP TRAININGTOVERS SHALL BE NOTIFIED IMMEDIATELY OF ANY VARIATIONS OR DISCREPANCIES FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. ANY FIELD CHANGES OR MODIFICATIONS TO EITHER THE STRUCTURE OR ADDITIVE COMPONENTS MUST BE REPORTED AND APPROVED BY WHP TRAININGTOVERS PRIOR TO PERFORMING ANY WORK.
- 6) MISCELLANEOUS FIELD CUTTING AND FITTING OF BOTH STRUCTURAL, AS WELL AS LIGHT GAUGE FRAMING COMPONENTS WILL BE NECESSARY TO BE ABLE TO PERFORM THE INSTALLATION PROCEDURES REQUIRED AND WILL BE CONSIDERED AS A STANDARD CONDITION AND REQUIREMENT FOR ERECTION OF THIS LIVE FIRE TRAINING SIMULATOR AND ITS COMPONENTS.
- 7) DOORS SHALL BE PAINTED 11 GA STEEL REINFORCED WITH STEEL CHANNEL. EACH EXTERIOR NON-BURN ROOF DOOR SHALL BE PROVIDED WITH (1) HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE AND (1) COMMERCIAL GRADE KEYS LOCKSET. EACH INTERIOR NON-BURN ROOF DOOR SHALL BE PROVIDED WITH (1) HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE AND (1) COMMERCIAL GRADE PASSAGE SET. EACH BURN ROOF DOOR SHALL BE PROVIDED WITH (1) HEAVY-DUTY STAINLESS STEEL CONTINUOUS HINGE, (1) SPRING-TYPE CLOSING DEVICE, (1) DOOR PULL, (1) ROLLER CATCH, AND (1) HOOK FOR USE IN SECURING THE BUILDING WHEN NOT IN USE. ANY DOUBLE DOORS SHALL BE PROVIDED WITH (1) METAL ASTRIAGAL, (1) INACTIVE LEAF, AND (1) CANE BOLT. ROOF HINGES SHALL BE MOUNTED TO STUDS A MINIMUM OF 4" X 12 GA. ALL FRAMED ROOF OPENINGS THAT DO NOT SIT ON THE CONCRETE STEM WALL SHALL EXTEND 6" FROM THE BOTTOM OF ROOF SLAB TO PROVIDE A 6" OPENING UNDER THE DOOR. ALL DOORS SHALL HAVE (1) HIGH-TEMP DOOR SWEEP INSTALLED ON THE OUTSIDE SIDE OF THE DOOR TO COVER THE 6" OPENING. THE DOOR SWEEP SHALL DRAG AGAINST THE FINISHED FLOOR LEVEL.
- 8) WINDOW CLOSURES SHALL BE PAINTED 12 GA HOT-DIPPED GALVANIZED SINGLE LEAVES WITH A 1" DEEP PAN FRAME DESIGN. EACH NON-BURN ROOF CLOSURE ACCESSIBLE FROM THE GROUND SHALL BE PROVIDED WITH (1) STAINLESS STEEL CONTINUOUS HINGE, (1) SLAM LATCH, (1) KEYS LEVER ON THE EXTERIOR SIDE OF THE CLOSURE, (1) PASSAGE LEVER ON THE INTERIOR SIDE OF THE CLOSURE, AND (1) HOLD-OPEN DEVICE. EACH NON-BURN ROOF CLOSURE NOT ACCESSIBLE FROM THE GROUND SHALL BE PROVIDED WITH (1) STAINLESS STEEL CONTINUOUS HINGE, (1) SLAM LATCH, (1) PASSAGE LEVER ON THE EXTERIOR SIDE OF THE CLOSURE, (1) PASSAGE LEVER ON THE INTERIOR SIDE OF THE CLOSURE, AND (1) HOLD-OPEN DEVICE. EACH BURN ROOF CLOSURE SHALL BE PROVIDED WITH ONE OF THE ABOVE HARDWARE SETS AND SHALL INCLUDE (3) "PADOENITE" MOUNTING CHANNELS WELDED ON THE INTERIOR SIDE OF THE CLOSURE. ALL CLOSURES SHALL BE INSTALLED WITH EQUAL SPACING BETWEEN THE FRAMED OPENING AND THE CLOSURE PAN. ALL SILL ELEVATIONS SHALL BE 42" ABOVE FINISHED FLOOR ELEVATION.
- 9) FLOOR DECKS ABOVE GRADE SHALL BE CONCRETE OVER GALVANIZED 1.5" "C" DECK FASTENED DIRECTLY TO LEVEL FLOOR JOISTS PER THE BETHLON INDUSTRIES CONSTRUCTION DRAWINGS. ALL FLOOR DECKS SHALL REQUIRE FIELD CUTTING AND FITTING AS REQUIRED TO ACCOMMODATE THE BUILDING CONFIGURATION. CONCRETE FILL SHALL BE PROVIDED OVER THE "C" DECK WITH MINIMUM 4" DEPTH AT THE EXTERIOR WALLS. CONCRETE SHALL BE A SMALL AGGREGATE CONCRETE WITH FIBER MESH REINFORCING. CONCRETE SHALL BE FITCHED TO EXTERIOR WALLS AND/OR DRAINS. FINISH SHALL BE A SLIP RESISTANT FINISH (CONCRETE FILL BY OTHERS).
- 10) ALL CORRUGATED WALL PANELS ARE TO BE PREFINISHED IN ONE OF 9 STANDARD COLORS. COMPOUND CORRUGATED WALL PANELS ARE 3'-5" WIDE AND 41" DEEP. COMPOUND CORRUGATED ROOF PANELS ARE TO BE GALVANIZED 3'-5" WIDE AND 74" DEEP. ALL WALL AND ROOF PANELS ARE TO BE BELTED AT 6" O.C. INCREMENTS UTILIZING 3/8" DIAMETER BOLT FASTENERS PROVIDED IN A COLOR TO MATCH THE WALL OR ROOF PANEL COLOR.
- 11) ALL INTERIOR WALL PARTITIONS SHALL BE CONSTRUCTED OF 4" X 1/8 GA GALVANIZED METAL STUDS AT 24" O.C. AND 4-1/8" X 1/8 GA GALVANIZED METAL TRACK. STUDS AT DOOR JAMB HINGES SHALL BE 4" X 1/2 GA. ALL SIDES OF INTERIOR PARTITIONS NOT RECEIVING BURN ROOF PANELS SHALL RECEIVE 1/8 GA GALVANIZED SHEETING FASTENED WITH #8 X 5/8" L/DW PROFILE TEK SCREWS AT 18" O.C.

DESIGN LOADS

- ROOF LOAD --- 100 PSF
- FLOOR LOAD --- 100 PSF
- ATTIC LOAD --- 100 PSF
- WIND LOAD --- --- MPH
- WIND EXPOSURE --- ---

WINDOW SHUTTER HARDWARE PACKAGES							
MARK	DESCRIPTION	ROUGH OPENING	SHUTTER LEAF	LOCKING HANDLE KIT	NON-LOCKING HANDLE KIT	HELD OPEN	THERMAL INSULATING CHANNELS
W1	LOCKING WINDOW SHUTTER	38"x49"	1	1	1	1	1
W2	LOCKING BURN ROOF SHUTTER	38"x49"	1	1	1	1	1
W3	LOCKING ATTIC SHUTTER	38"x37"	1	1	1	1	1
W4	NON-LOCKING WINDOW SHUTTER	38"x49"	1	1	1	1	1
W5	NON-LOCKING BURN ROOF SHUTTER	38"x49"	1	1	1	1	1
W6	NON-LOCKING ATTIC SHUTTER	38"x37"	1	1	1	1	1

DOOR HARDWARE PACKAGES												
MARK	DESCRIPTION	ROUGH OPENING	DOOR INACTIVE LEAF	DOOR ACTIVE LEAF	DOOR SWEEP	DOOR PLATE	LOCKING KNOB SET	PASSING KNOB SET	BURN ROOF KIT	SLIDE LATCH	BARREL BOLT	CANE BOLT
D1	EXTERIOR SINGLE PLATE DOOR	38"x91"	1	1	1	1	1	1	1	1	1	1
D2	EXTERIOR SINGLE BURN ROOF DOOR	38"x91"	1	1	1	1	1	1	1	1	1	1
D3	EXTERIOR DOUBLE PLATE DOOR	79"x91"	1	1	1	1	1	1	1	1	1	1
D4	EXTERIOR DOUBLE BURN ROOF DOOR	79"x91"	1	1	1	1	1	1	1	1	1	1
D5	INTERIOR SINGLE PLATE DOOR	38"x91"	1	1	1	1	1	1	1	1	1	1
D6	INTERIOR SINGLE BURN ROOF DOOR	38"x91"	1	1	1	1	1	1	1	1	1	1
D7	INTERIOR DOUBLE PLATE DOOR	79"x91"	1	1	1	1	1	1	1	1	1	1
D8	INTERIOR DOUBLE BURN ROOF DOOR	79"x91"	1	1	1	1	1	1	1	1	1	1

WHP
A DIV. OF JAHNE AND SONS CONSTRUCTION, INC.
518 DICK RD. GRANDEUR, MO 64130
TEL: 913-381-3663 info@wphgates.com
TOLL FREE 1-800-391-2525 www.wphgates.com

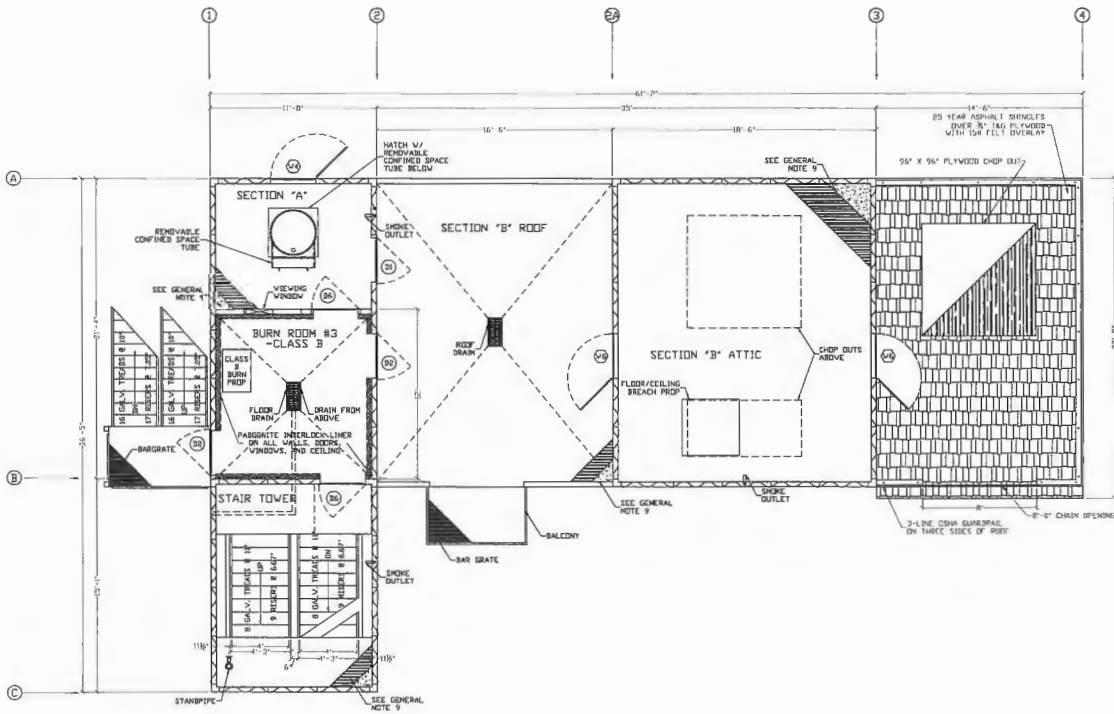
**CUSTOM HIGH RISE - FIVE STORY
FIRE TRAINING SIMULATOR**
CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR

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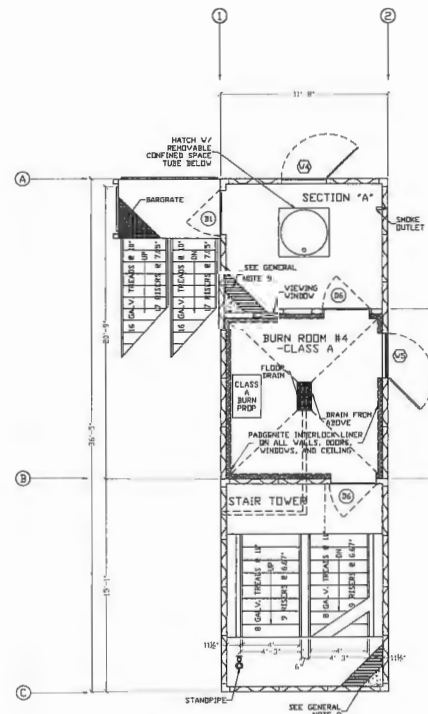
PROJECT NUMBER: 02-24-001	REVISED DATES:
DATE: 02/21/14	
SCALE: AS SHOWN	
DATE: 02/21/14	
DATE: 02/21/14	
DATE: 02/21/14	

COVER PAGE

0



TOWER 3RD FLOOR PLAN AND RESIDENTIAL ATTIC PLAN
SCALE: 1/4" = 1'-0"



TOWER 4TH FLOOR PLAN
SCALE: 1/4" = 1'-0"

WHP
A DIV. OF JAHNKE AND SONS CONSTRUCTION, INC.
519 DICK RD GRANOVEN, MD 64030
TEL: 410-335-3863 jah@wphconstruction.com
WWW.WPHCONSTRUCTION.COM
TOLL FREE: 1-800-331-5255

**CUSTOM HIGH RISE - FIVE STORY
FIRE TRAINING SIMULATOR**
CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR

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PROJECT NUMBER	DATE	BY	REVISION
00-2000	08/10/00	JAH	1
		JAH	2
		JAH	3
		JAH	4

THIRD FLOOR AND
FOURTH FLOOR PLANS

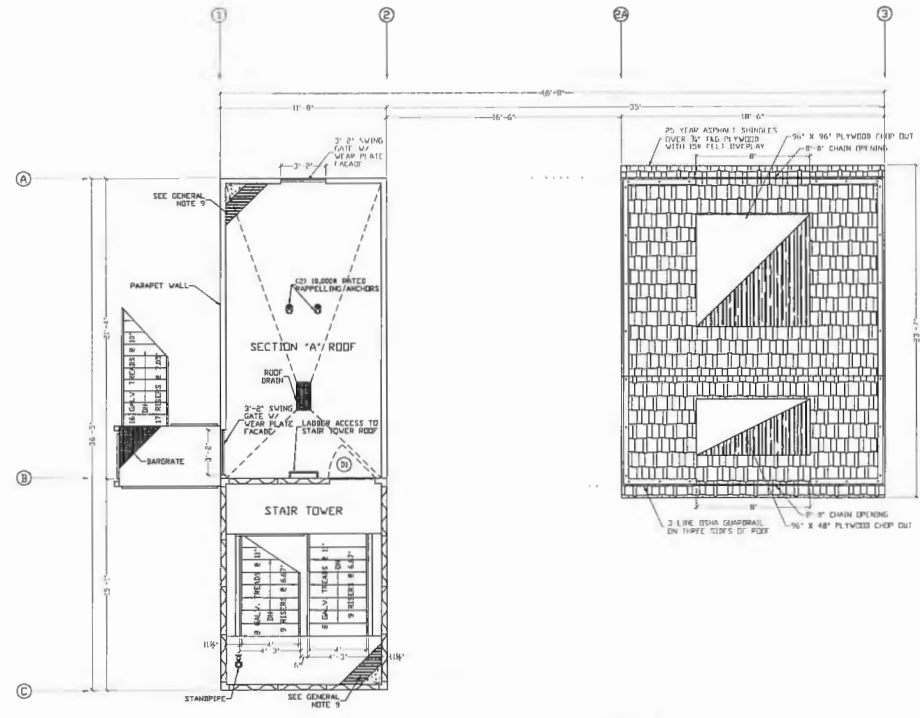
NIC REFERENCE ONLY



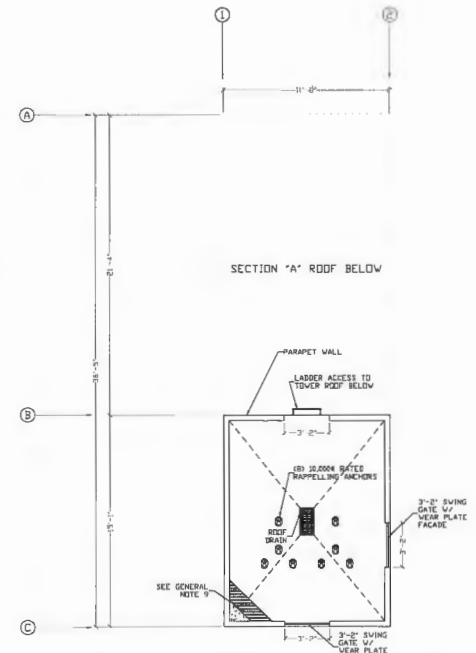
WHP
 A DIV. OF JAMNIC AND SONS CONSTRUCTION, INC.
 319 DICK RD GRANBY, MD 21630
 TEL. 913-385-3643 info@whpinc.com
 TEL. FEE: 1-800-331-1325 www.whpinc.com

CUSTOM HIGH RISE - FIVE STORY
 FIRE TRAINING SIMULATOR

CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR



TOWER AND RESIDENTIAL ROOF PLAN
 SCALE: 1/4" = 1'-0"



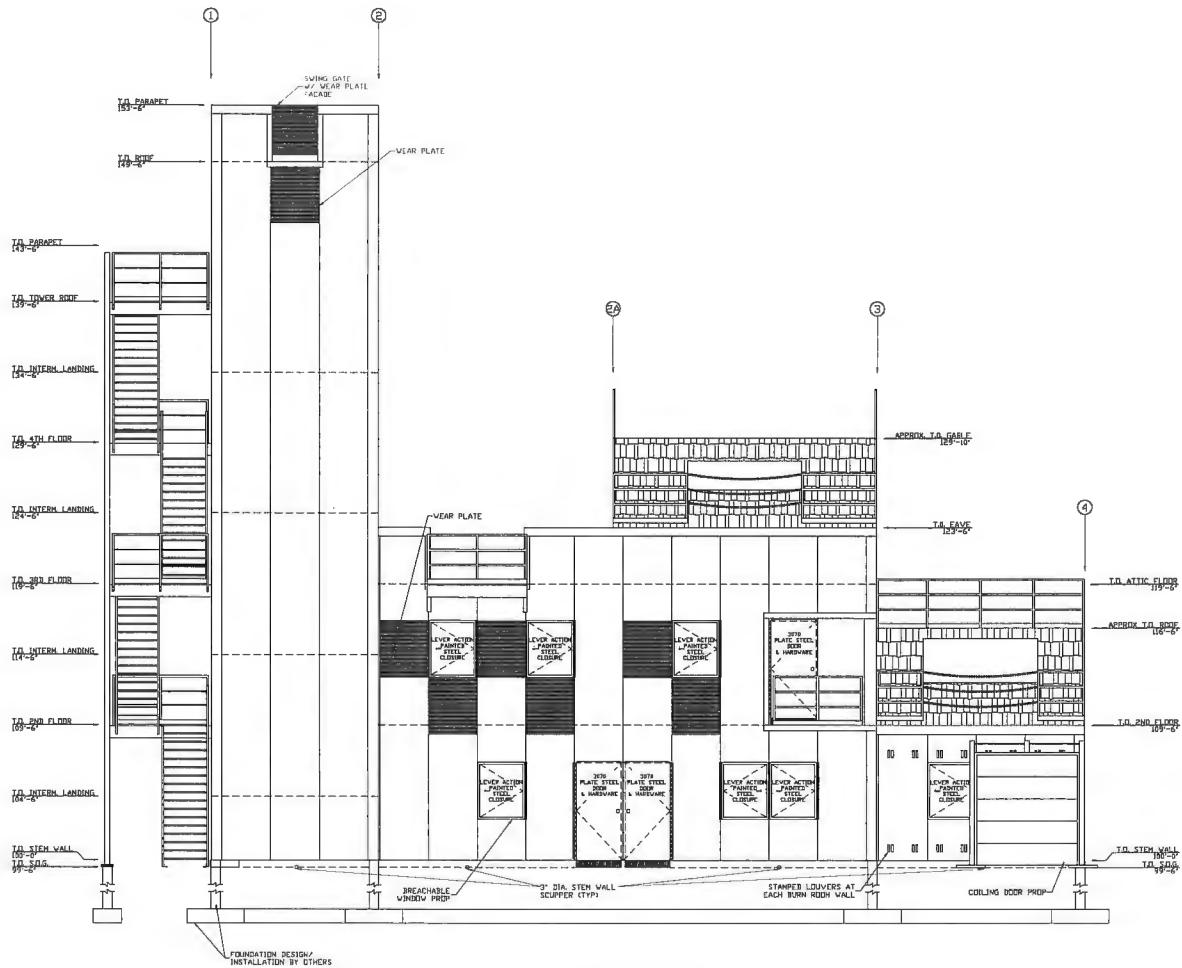
STAIR TOWER AND ELEVATOR SHAFT PLAN
 SCALE: 1/4" = 1'-0"

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PROJECT NUMBER	00-1-001	PERSONAL FILE
DATE	01/21/11	
DESIGNED BY	AM	
CHECKED BY	AM	
DATE	01/21/11	

ROOF PLANS

NIC REFERENCE ONLY



FRONT SIDE ELEVATION
SCALED 1/4" = 1'-0"

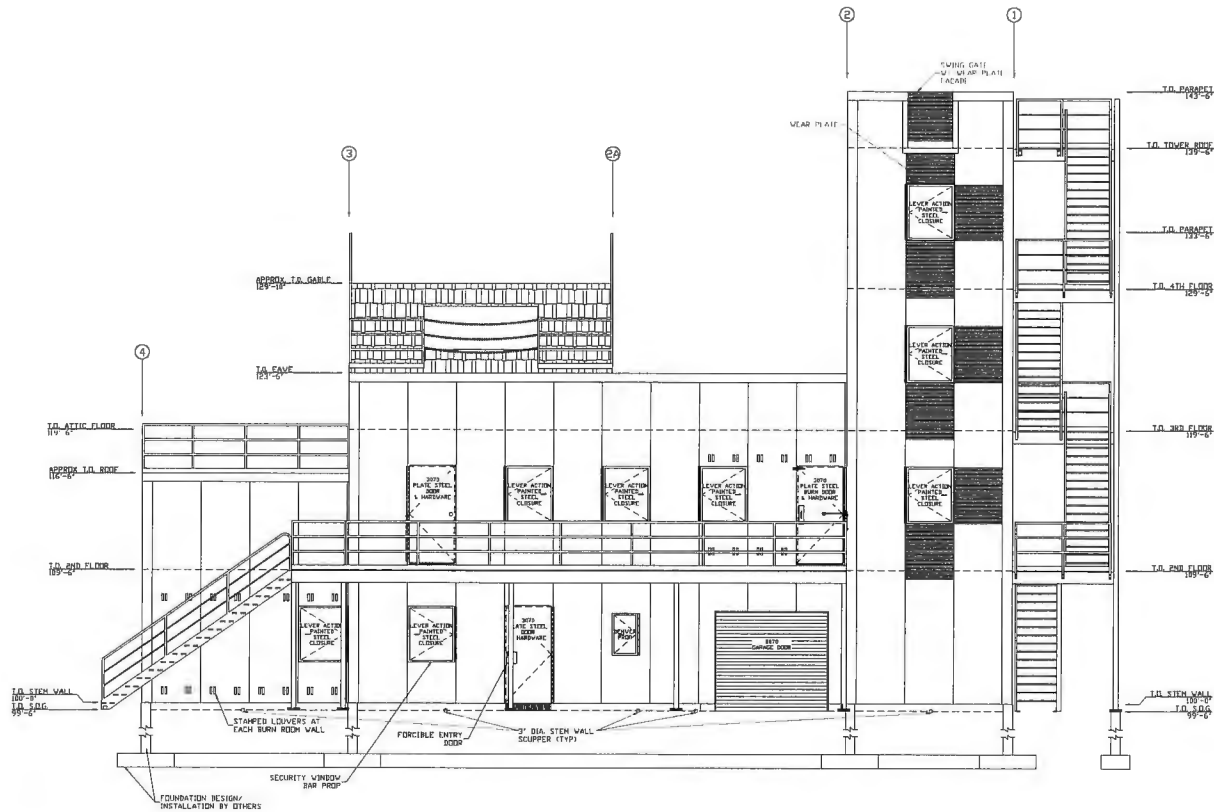
NIC REFERENCE ONLY

**CUSTOM HIGH RISE - FIVE STORY
FIRE TRAINING SIMULATOR**

CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR

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PROJECT NUMBER:	00-C-100	REVISION NUMBER:	
PROJECT LOCATION:	CM	DATE:	11-22-14
DESIGNED BY:	SK	SCALE:	AS SHOWN
DRAWN BY:	SK		



REAR SIDE ELEVATION
 SCALED 1/4" = 1'-0"

NIC REFERENCE ONLY



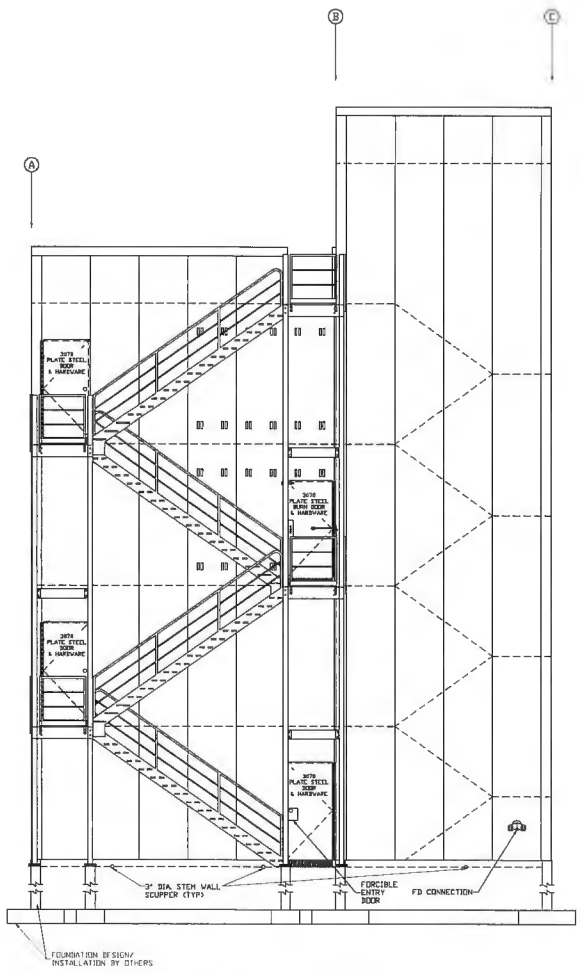
A DIV. OF JAMIE AND SONS CONSTRUCTION, INC.
 519 DUCK RD BRANDEWEN, MD 21030
 TEL: 913-853-3663 fax: 913-853-3663
 TOLL FREE: 1-800-351-3235 www.wishjstowers.com

CUSTOM HIGH RISE - FIVE STORY
 FIRE TRAINING SIMULATOR

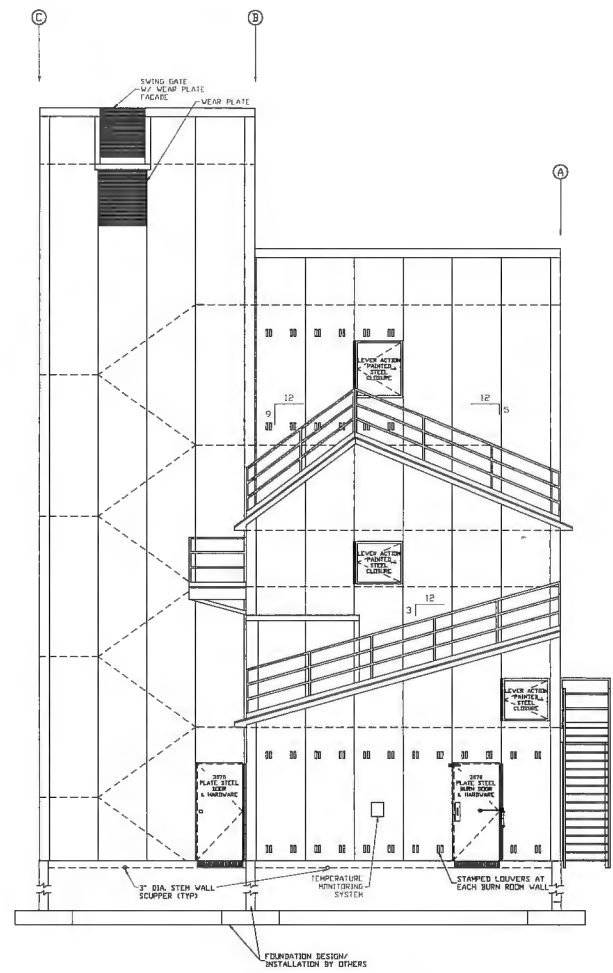
CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR

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PROJECT NUMBER	DATE	DESCRIPTION
08-000001 <td>08-0000 <td>PERMIT SETS</td> </td>	08-0000 <td>PERMIT SETS</td>	PERMIT SETS
08-000002 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000003 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000004 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000005 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000006 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000007 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000008 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000009 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000010 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000011 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000012 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000013 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000014 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000015 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000016 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000017 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000018 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000019 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS
08-000020 <td>08-0000 <td>CONTRACT SETS</td> </td>	08-0000 <td>CONTRACT SETS</td>	CONTRACT SETS



LEFT SIDE ELEVATION
SCALE: 1/4" = 1'-0"



RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0"

NIC REFERENCE ONLY

**CUSTOM HIGH RISE - FIVE STORY
 FIRE TRAINING SIMULATOR**
 CITY OF COSTA MESA FIRE DEPARTMENT TRAINING SIMULATOR

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PROJECT NUMBER	DATE	DESCRIPTION
2014-001	02-11-14	CONCEPT DESIGN
2014-001	03-11-14	SCHEMATIC DESIGN
2014-001	04-11-14	PERMIT DESIGN
2014-001	05-11-14	CONSTRUCTION DOCUMENTS

LEFT SIDE AND RIGHT SIDE ELEVATIONS

FINAL CONTRACT AMOUNTS THAT EXCEED THE ORIGINAL CONTRACT AMOUNT WILL BE CHARGED ADDITIONAL PREMIUM AND FEE INCLUDE THESE CHARGES IN YOUR CHANGE ORDERS.

Executed in Two Original Counterparts

Bond Number 1001203159

FAITHFUL PERFORMANCE BOND
PUBLIC WORK

(The premium charge on this bond is \$ 41,860.80 , being at the rate of \$ 18.00 per thousand of the contract price)

KNOW ALL MEN BY THESE PRESENTS:

THAT, WHEREAS the CITY OF COSTA MESA, 77 Fair Drive, Costa Mesa, California 92626, has entered into a contract dated August 25th , 20 23 , which is hereby incorporated by reference herein, with Jahnke & Sons Construction, Inc. dba WHP Training Towers hereinafter designated as the "Principal," for the work described as follows:

Pre-Fabricated Training Towers & Installation at FS#4

_____ ; and

WHEREAS, said Principal is required by the terms of said contract to furnish a bond for the faithful performance of said contract.

NOW, THEREFORE, We the Principal, and American Contractors Indemnity Company a corporation organized and existing under the laws of the State of California and duly authorized to transact business under the laws of the State of California, as Surety, are held and firmly bound unto the CITY OF COSTA MESA in the penal sum of Two Million, Three Hundred Twenty Five Thousand, Six Hundred and 13/100 Dollars (\$ 2,325,600.13), lawful money of the United States, for the payment of

which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

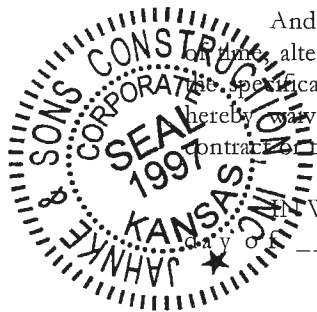
The Condition Of This Obligation Is Such, That, if the above bounden Principal, his or its heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, condition and agreements in the said contract and any alteration thereof made as therein provided, or his or their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the CITY OF COSTA MESA, its officers and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

And the said Surety, for value received, hereby stipulates and agrees that no change, extension or alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any wise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or the work or to the specifications.

_____ 6th
IN WITNESS WHEREOF. We have hereunto set our hands and seals this
Jahnke & Sons Construction, Inc. dba WHP Training Towers
_____ September _____, 2023

By: [Signature]
William M. Jahnke, President
American Contractors Indemnity Company

By: [Signature]
Jeremy Crawford, Attorney-In-Fact



FINAL CONTRACT AMOUNTS THAT EXCEED THE ORIGINAL CONTRACT AMOUNT WILL BE CHARGED ADDITIONAL PREMIUM AND FEE. INCLUDE THESE CHARGES IN YOUR CHANGE ORDERS.

Executed in Two Original Counterparts
Bond No. 1001203159

**LABOR AND MATERIALS PAYMENT BOND
TO ACCOMPANY CONTRACT PUBLIC WORK**

WHEREAS, the City of Costa Mesa, State of California, has awarded to Jahnke & Sons Construction, Inc. dba WHP Training Towers, hereinafter designated as the "Principal", a contract for the project known as: Pre-Fabricated Training Towers & Installation at FS#4 in the City of Costa Mesa, in strict conformity with the contract on file with the Costa Mesa City Clerk, which is incorporated herein by this reference.

WHEREAS, Principal has executed or is about to execute the contract and the terms thereof and California Civil Code section 9554 require the furnishing of a bond, providing that if Principal or any of Principal's subcontractors fails to pay for any materials, provisions, or other supplies used in, upon, for, or about the performance of the work agreed to be done, or for any work or labor done thereon of any kind, the Surety on this bond will pay the same to the extent hereinafter set forth.

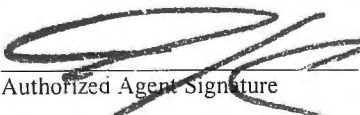
NOW, THEREFORE, We, the undersigned Principal, and American Contractors Indemnity Company, duly authorized to transact business under the laws of the State of California, as Surety (referred to herein as "Surety"), are held and firmly bound unto the City of Costa Mesa, in the sum of Two Million, Three Hundred Twenty Five Thousand, Six Hundred and 13/100 Dollars (\$2,325,600.13) lawful money of the United States of America, said sum being equal to 100% of the estimated amount payable to the City of Costa Mesa under the terms of the contract, for which payment well and truly to be made, we bind ourselves, our heirs, executors, executors, and administrators, successors and assigns, jointly and severally, firmly by these present.


THE CONDITION OF THIS OBLIGATION IS SUCH, that, if the Principal or the Principal's subcontractors fail to pay for any materials, provisions, or other supplies, implements or machinery used in, upon, for, or about the performance of the work contracted to be done, or for any other work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to such work or labor, or for any amounts required to be deducted, withheld and paid over to the Employment Development Department from the wages of employees of the Principal and subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to such work and labor, then the Surety will pay for the same, in an amount not exceeding the sum specified in this Bond, and also, in case suit is brought to enforce the obligations of this Bond, a reasonable attorneys' fees, to be fixed by the Court as required by the provisions of Section 9554 of the California Civil Code.

This bond shall inure to the benefit of any and all persons, companies and corporations entitled to file claims under Section 9100 of the California Civil Code, so as to give a right of action to them or their assigns in any suit brought upon this bond. And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall in any way affect its obligations on this Bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the work or to the specifications.

IN WITNESS WHEREOF, this instrument has been duly executed by the above-named Principal and Surety, on the 6th day of September, 2023.

American Contractors Indemnity Company
Name of Surety
801 S. Figueroa St, Suite 700
Los Angeles, CA 90017
Address of Surety

By: 
Authorized Agent Signature
Jeremy Crawford, Attorney-In-Fact
Print Name and Title

Jahnke & Sons Construction, Inc. dba WHP Training Towers
Name of Contractor (Principal)
By: 
William M. Jahnke, President



TOKIO MARINE
HCC

POWER OF ATTORNEY
AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

KNOW ALL MEN BY THESE PRESENTS: That American Contractors Indemnity Company, a California corporation, Texas Bonding Company, an assumed name of American Contractors Indemnity Company, United States Surety Company, a Maryland corporation and U.S. Specialty Insurance Company, a Texas corporation (collectively, the "Companies"), do by these presents make, constitute and appoint:

Jeremy Crawford, Michael D. Williams, William J. Nemece, Tanya Fukushima, William Gerber, Bradford J. Quiri, Amanda M. Quigley, or Andrea Haight of Golden Valley, Minnesota

its true and lawful Attorney(s)-in-fact, each in their separate capacity if more than one is named above, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver **any and all bonds, recognizances, undertakings or other instruments or contracts of suretyship to include riders, amendments, and consents of surety, providing the bond penalty does not exceed** ***** Five Million and 00/100 ***** Dollars (**\$5,000,000.00**). This Power of Attorney shall expire without further action on January 31st, 2024. This Power of Attorney is granted under and by authority of the following resolutions adopted by the Boards of Directors of the Companies:

Be it Resolved, that the President, any Vice-President, any Assistant Vice-President, any Secretary or any Assistant Secretary shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

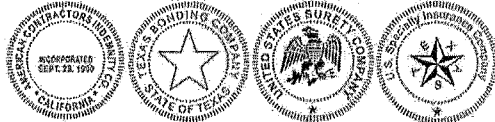
Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, including any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts, and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Corporate Secretary.

Be it Resolved, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

IN WITNESS WHEREOF, The Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 23rd day of September, 2021.

AMERICAN CONTRACTORS INDEMNITY COMPANY TEXAS BONDING COMPANY
UNITED STATES SURETY COMPANY U.S. SPECIALTY INSURANCE COMPANY

State of California
County of Los Angeles



By: [Signature]
Daniel P. Aguilar, Vice President

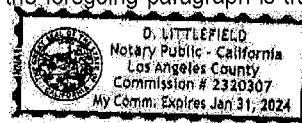
A Notary Public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

On this 23rd day of September, 2021, before me, D. Littlefield, a notary public, personally appeared Daniel P. Aguilar, Vice President of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature] (seal)



I, Kio Lo, Assistant Secretary of American Contractors Indemnity Company, Texas Bonding Company, United States Surety Company and U.S. Specialty Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Los Angeles, California this _____ day of September, 2023

Corporate Seals
Bond No. 1001203169
Agency No. 19903 - PDF POA



[Signature]
Kio Lo, Assistant Secretary