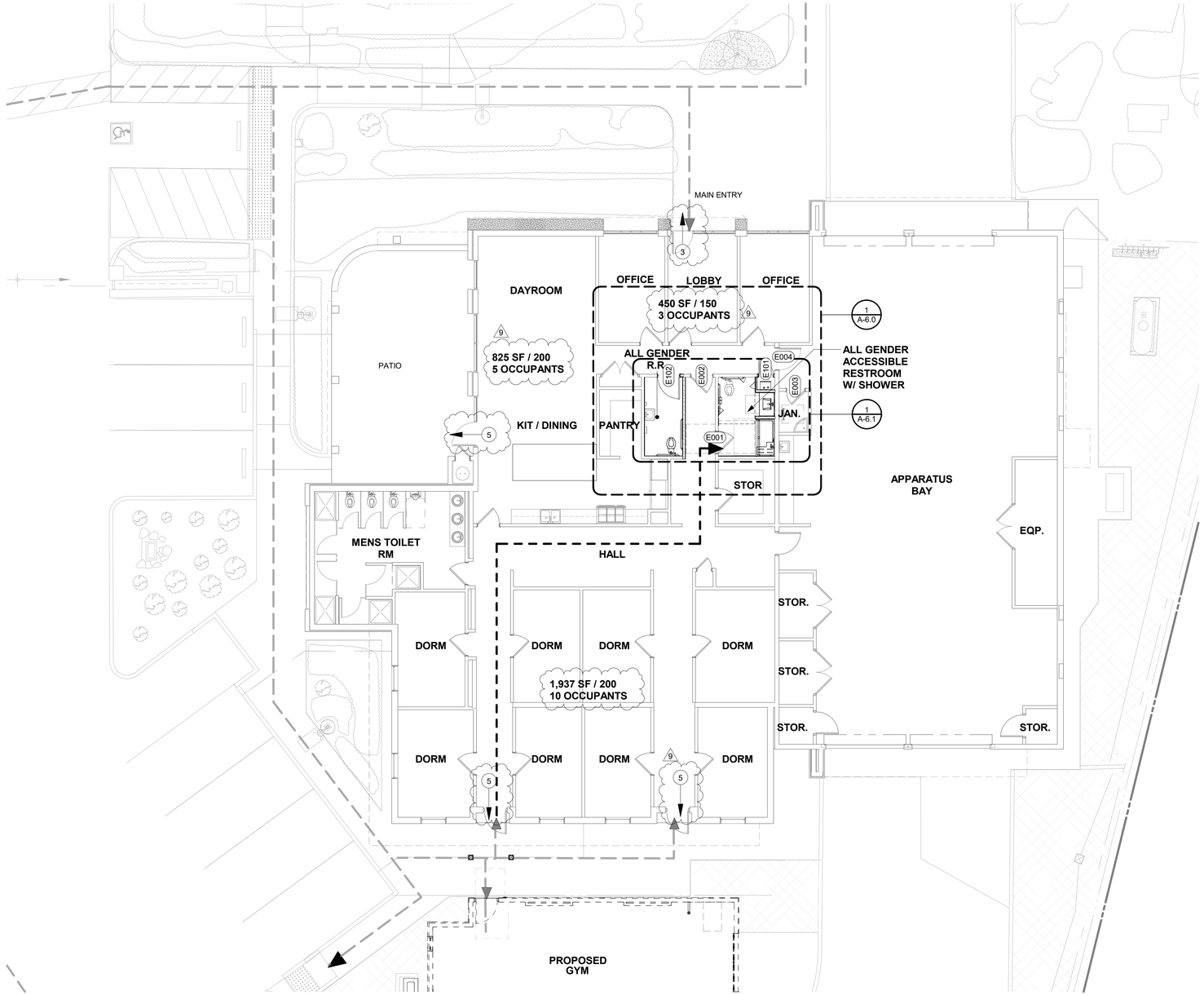


6/18/2026

LEGEND

EXTERIOR ACCESSIBLE ROUTE

INTERIOR ACCESSIBLE ROUTE

TM-B24-5413|B25-0079

EXISTING FIRE HOUSE FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT — THOMAS WILLIAM RIGLE — C-24877 REN. 8/31/27 — STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ANSARI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

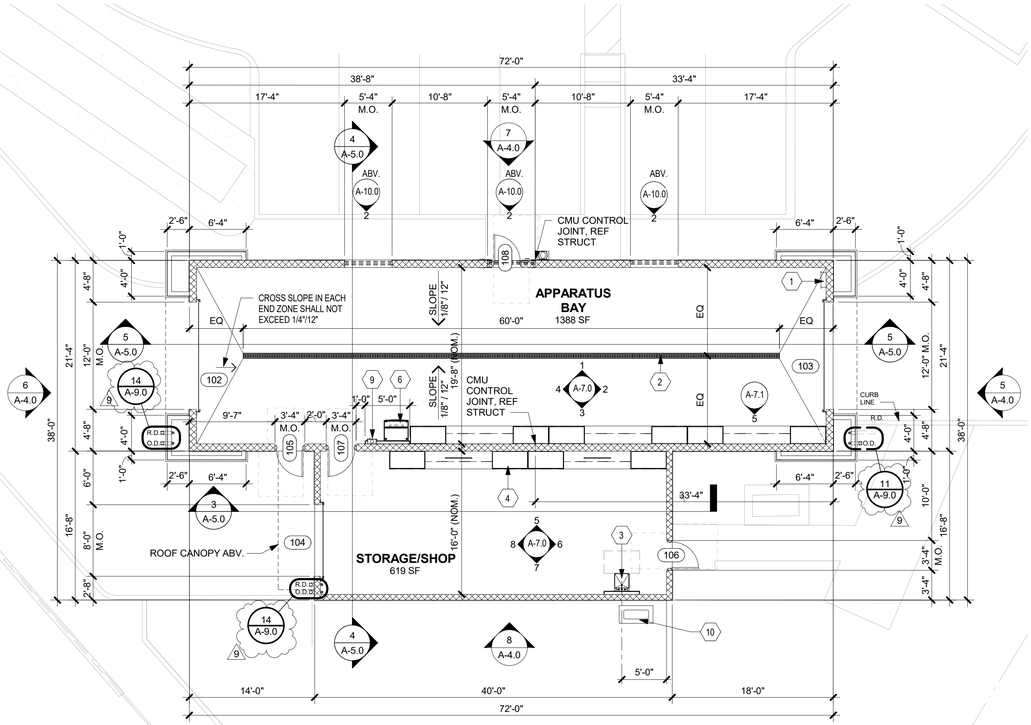
FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
EXISTING BUILDING FLOOR PLAN

Drawing No. **A-0.1**

Sheet ____ of ____

PRINTED: 6/3/2026

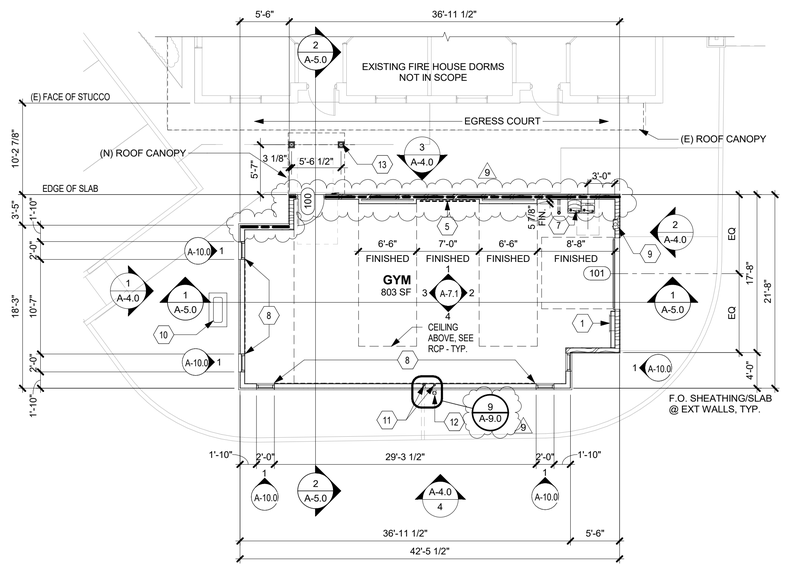
6/18/2026



2 APPARATUS BUILDING FLOOR PLAN

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

NORTH



1 GYM BUILDING FLOOR PLAN

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

NORTH

KEYNOTES

1. POWER SUB-PANEL, REF ELECTRICAL DWGS
2. TRENCH DRAIN, REF PLUMBING DWGS
3. HAND SINK, REF PLUMBING DWGS
4. PRE-FABRICATED CABINET SET BY "SABER CABINETS" OR EQUAL
5. WALL MOUNTED MONITOR, PROVIDE 6" W. X 18GA. SHEET METAL BACKING. REF ELECTRICAL DWGS FOR POWER AND DATA REQUIREMENTS.
6. RELOCATED ICE MACHINE. REF PLUMBING AND ELECTRICAL DWGS. COORDINATE RELOCATION W/ OWNER.
7. HI-LOW DRINKING FOUNTAIN WITH BOTTLE FILLER; REF1/T-1.2 AND PLUMBING DWGS
8. MIRROR ADHERED TO WALL; REF. INTERIOR ELEVATIONS
9. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
10. CONDENSER ON PAD, REF MECHANICAL DWGS
11. ROOF DRAIN LEADER; REF PLUMBING DWGS
12. ROOF DRAIN LEADER OVERFLOW OUTLET
13. 6X6 WOOD POST WRAPPED WITH STUCCO SYSTEM O/ 1/2" PLYWOOD

GENERAL NOTES

1. ALL EXTERIOR WALLS SHALL BE CMU OR 2x6 WOOD STUDS; REF STRUCTURAL PLANS.
2. EXTERIOR FINISH SHALL BE 7/8" CEMENT PLASTER SYSTEM OR HORIZONTAL CORRUGATED METAL SIDING; REF EXTERIOR ELEVATIONS.
3. ALL EXTERIOR WALL INSULATION SHALL BE R-21.
4. ALL ROOF INSULATION SHALL BE R-38.
5. PROVIDE 5/8" TYPE "X" GYP. BD. THROUGHOUT.
6. ALL GYP. BD. WALL CORNERS SHALL BE SQUARE.
7. ALL EXTERIOR DIMENSIONS ARE TO FACE SHEATHING/SLAB AND ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD OR CENTER OF OPENING U.N.O.
8. PROVIDE FLASHING AT ALL EXTERIOR DOOR, WINDOWS AND OTHER EXTERIOR OPENINGS.
9. CBC 11B-404.2.8.1. DOOR CLOSERS AND GATE CLOSERS. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.
10. ALL EXTERIOR DOORS MUST HAVE NO MORE THAN 5 LBS OPENING FORCE. ALL INTERIOR DOORS MUST HAVE NO MORE THAN 5 LBS OPENING FORCE.
11. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
12. ALL EXTERIOR CONCRETE SHALL BE EXPOSED WEATHER SEALED.
13. SPRINKLER SYSTEM IS A DESIGN/BUILD SYSTEM BY SPRINKLER CONT. SUBMIT PLANS AND SHOP DRAWINGS TO THE FIRE DEPT. FOR APPROVAL. HEADS SHALL BE CONCEALED FULLY RECESSED.

BUILDING AREA

AREA OF NEW CONSTRUCTION

NAME	AREA
APPARATUS BAY / SHOP	2217 SF
GYM ADDITION	897 SF
TOTAL	3114 SF

9

WALL LEGEND

- FULLY GROUTED REINFORCED CMU WALLS; REF STRUCTURAL DWGS.
- WOOD STUD WALLS; REF WALL TYPES AND STRUCTURAL DWGS.
- 1-HOUR RATED WALL 9

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

TRD DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____	5/16/25	RJ	2 IN HOUSE REVISIONS			
Date Completed_____	04/09/26	RJ	9 IN HOUSE REVISIONS			

SCALE: Horizontal: As indicated; Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date_____

R.C.E. No._____

RECOMMENDED BY: HOSSEIN AJDEH, PE, PRINCIPAL CIVIL ENGINEER DATE: 6/18/2026

ACCEPTED BY: RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE: 6/18/2026

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GYM & APPARATUS BAY FLOOR PLANS

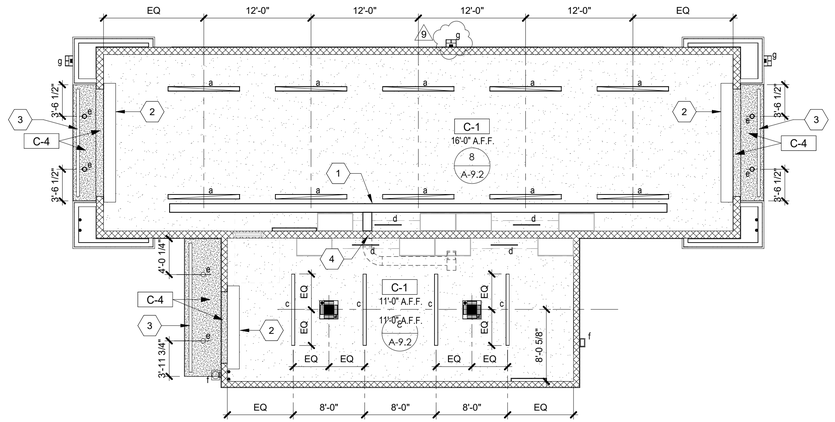
Drawing No. **A-1.0**

Sheet ____ of ____

PRINTED: 6/3/2026

REFL CEILING PLAN KEYNOTES

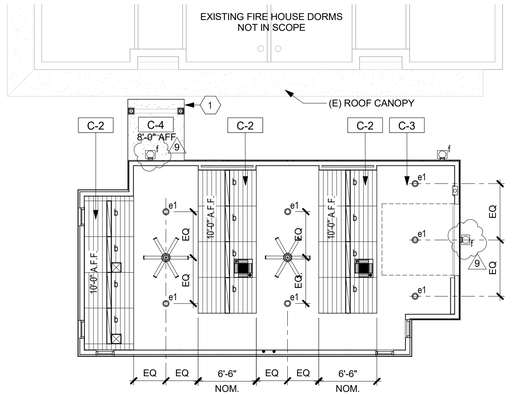
1. SUSPENDED PLYMOVENT PNEUMATIC VSRX-65 CRAB VEHICLE EXHAUST RETURN SYSTEM. GC TO PROVIDE RAIL AND CROSS MEMBERS TO SUPPORT EXHAUST SYSTEM. REF MECHANICAL DWGS FOR DUCT SIZES AND MECHANICAL EQUIPMENT.
2. ROLL UP DOOR HOUSING
3. CONTINUOUS SOFFIT VENT
4. FUME DUCT PENETRATION, REF MECHANICAL DWGS



2 APPARATUS BUILDING REFLECTED CEILING PLAN

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

NORTH



1 GYM BUILDING REFLECTED CEILING PLAN

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

NORTH

CEILING LEGEND

- C-1 — 5/8" TYPE "X" GYP. CEILING ON 2X WOOD FRAMING, REF STRUCTURAL.
- C-2 — 2'-0" x 4'-0" x 3/4" , ACOUSTICAL TILE CEILING ON SUPRAFINE HEAVY DUTY 9/16" BEVELED TEGULAR GRID SUSPENDED SYSTEM. MFG: ARMSTRONG, CIRRUS® SECOND LOOK® III, PRE-FINISHED WITH 6" SCORING
- C-3 — OPEN TO FRAMING ABOVE BATT INSULATION WITH BLACK SCRIM (8 / A-9.2)
- C-4 — EXTERIOR CEMENT PLASTER PLASTER

LIGHTING FIXTURE LEGEND

- e — 6" LED DOWNLIGHT, REF ELECT DWGS
- e1 — 6" PENDANT LIGHT, REF ELECT DWGS
- a — 1X8FT SURFACE MOUNTED LED STRIP, REF ELECT DWGS
- b — 1X4FT SURFACE MOUNTED LED STRIP, REF ELECT DWGS
- c — 1X8FT RECESSED LIGHT STRIP, REF ELECT DWGS (9)
- d — UNDER CABINET LED TASKLITE, REF ELECT DWGS
- f — EXTERIOR WALL MOUNTED FIXTURE, REF ELECT DWGS
- g — EXTERIOR WALL MOUNTED FLOOD LIGHT, REF ELECT DWGS (9)
- S — EXTERIOR WALL MOUNTED SPEAKER@ 11'-6" AFF, FOCI
- CEILING FAN
- EXHAUST FAN, REF MECH DWGS
- MINI SPLIT HEAT PUMP, REF MECH DWGS

CEILING FIXTURE NOTES

NOTE: DUE TO SEISMIC CONDITIONS, USE ONLY HEAVY DUTY CEILING SYSTEMS.

PERIMETER MEMBERS:
MAIN RUNNERS SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8" FROM EACH WALL W/ #12 GAGE WIRE OR APPROVED WALL SUPPORT.

A. CROSS RUNNERS SHALL BE SUPPORTED INDEPENDENTLY A MAXIMUM OF 8" FROM EACH WALL W/ #12 GAGE WIRE OR APPROVED WALL SUPPORT.
B. THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL NOT BE LESS THAN 2" ONE END OF THE CEILING GRID (IN EACH ORTHOGONAL HORIZONTAL DIRECTION) SHALL BE ATTACHED TO THE CLOSURE ANGLE. THE OTHER END (IN EACH HORIZONTAL DIRECTION) SHALL HAVE A 0.75" CLEARANCE FROM THE WALL AND SHALL REST UPON, AND BE FREE TO SLIDE ON. A CLOSURE ANGLE.

LIGHT FIXTURE SUPPORTS:

A. ALL LIGHT FIXTURES SHALL BE ATTACHED (W/ APPROVED SCREWS OR CLIPS) TO CEILING SYSTEM AT TWO OPPOSING SIDES.
B. WIRE REQUIRED TO SUPPORT THE FIXTURE:
   1. FIXTURE LESS THAN 10 LBS/ - ONE #12 GAGE HANGER WIRE FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE.
   2. FIXTURE BETWEEN 11 TO 55 LBS.- TWO # 12 GAGE WIRES CONNECTED FROM THE FIXTURE MOUNTING TO THE STRUCTURE ABOVE. WIRE MAY BE SLACK.
   3. FIXTURES 56 LBS. OR MORE- SHALL BE SUPPORTED DIRECTLY SUSPENSION FOR DIRECT SUPPORT.
   4. PENDANT HUNG FIXTURE SHALL BE SUPPORTED W/#9 GAGE WIRE WITHOUT USING THE CEILING SUSPENSION SYSTEM FOR DIRECT SUPPORT.
   5. U.N.O LIGHTS SHALL BE EQUALLY SPACED FROM ADJACENT WALLS & OTHER LIGHTS
   6. G.C. TO VERIFY PLACEMENT OF ALL LIGHTING, HVAC EQUIP. FIRE SPRINKLERS & AV EQUIP., WITH OWNER & ARCHITECT ONE MONTH PRIOR TO INSTALLATION.
   7. G.C. TO VERIFY PLACEMENT & REGISTER COLOR WITH ARCHITECT PRIOR TO INSTALLATION.
   8. MOUNTING LOCATION & ELEVATION SHALL BE VERIFIED WITH OWNERS, A/V CONSULTANT & ARCHITECTS.

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	2 IN HOUSE REVISIONS			
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

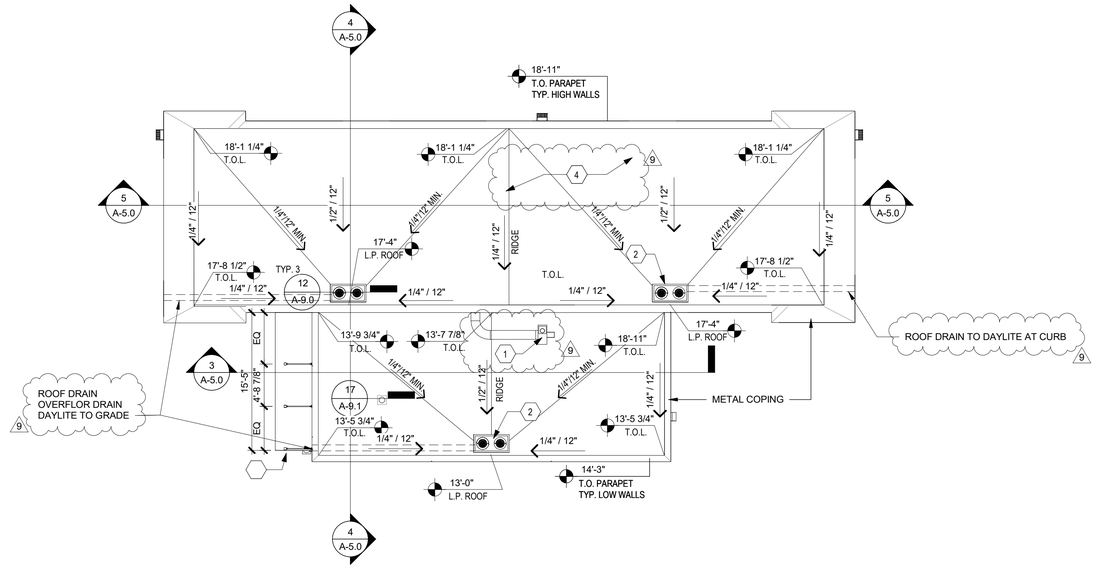
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
REFLECTED CEILING PLANS

Drawing No. **A-2.0**
Sheet _____ of _____

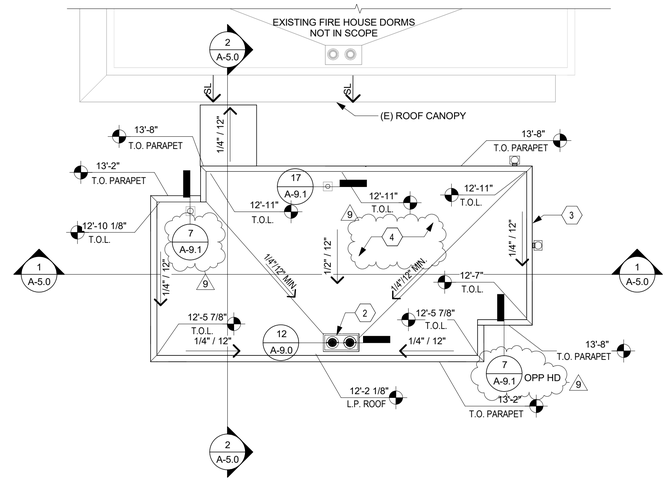
PRINTED: 6/4/2026



2 APPARATUS BUILDING ROOF PLAN

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

NORTH



1 GYM BUILDING ROOF PLAN

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

NORTH

KEYNOTES

- ROOF CANOPY BELOW WITH SINGLE PLY ROOFING
- 1 EXHAUST FAN, REF MECH. DWGS.
- 2 ROOF DRAIN AND OVERFLOW DRAIN, REF PLUMBING DWGS
- 3 PRE-FIN. METAL WALL COPING, REF EXTERIOR MATERIAL SCHEDULE
- 4 SINGLE PLY ROOFING SYSTEM, REF ROOF MATERIAL SCHEDULE

ROOF NOTES

1. TPO ROOFING SHALL BE A GAF EVERGUARD® TPO SPECIFICATION NUMBER: T-MA-N-M-60 INSTALLED OVER VERSASHIELD "SOLO" FIRE RETARDANT SLIP SHEET ON PLYWOOD SUBSTRATE PER SPECIFICATIONS.
2. THE SPECIFIED TPO ROOFING COMPLIES WITH ASTM D6878.
3. THE SPECIFIED TPO ROOFING MEETS "CLASS A" TESTING STANDARDS IN ACCORDANCE WITH ASTM E108 or UL 790.
4. ENERGY PERFORMANCE FOR GAF 60 MIL TPO ROOFING:
   SRI INITIAL: 94 / 81
   AGED: 83
5. TPO SHALL BE CERTIFIED AND LABELED ACCORDING TO THE REQUIREMENTS OF SECTION 10-113. (CEC 110.8(I)).
6. ROOF DECKS ARE SLOPED WITH WARPED FRAMING TO ACHIEVE REQURIED SLOPES, TYP.
7. COORDINATE JOINTS IN WALL COPINGS AND REVEALS WITH CMU CONTROL JOINTS, TYP.

ROOF LEGEND

- SLOPE 1/4" / 12" — ROOF SLOPE DESIGNATION
- ROOF DRAIN, REF PLUMBING DWGS
- EXHAUST FAN, REF MECHANICAL DWGS
- DUCT THRU ROOF, REF MECHANICAL DWGS
- SUPPLY AIR GOOSENECKED DUCT W/ CURB, REF MECHANICAL DWGS

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	2 IN HOUSE REVISIONS			
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Date Completed_____						

SCALE: Horizontal 1/8" = 1'-0" | Vertical 1/8" = 1'-0"

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

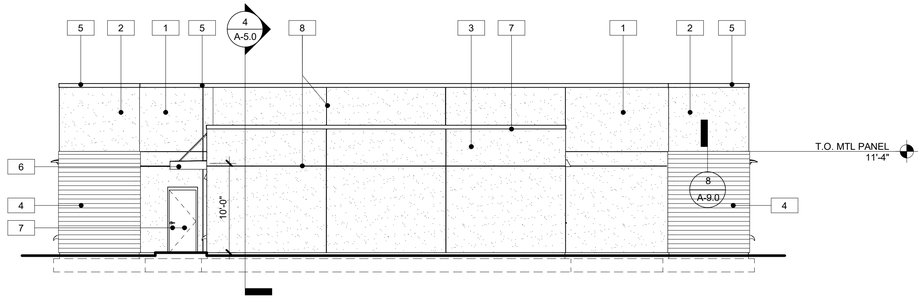
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN KHOEI, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
ROOF PLANS

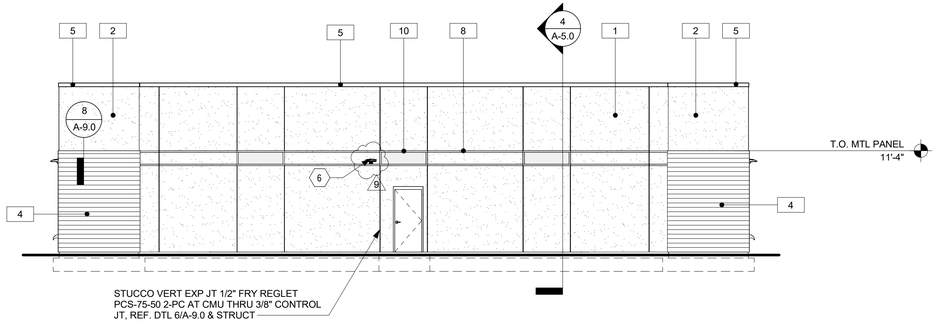
Drawing No. **A-3.0**
Sheet ____ of ____

PRINTED: 6/4/2026



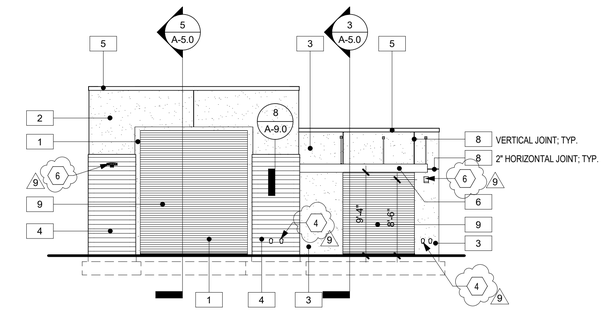
8 APPARATUS BLDG WEST ELEVATION

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



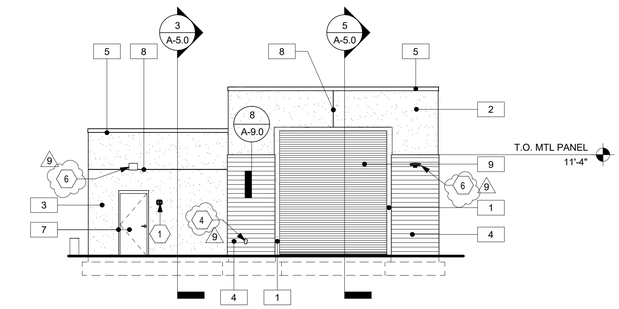
7 APPARATUS BLDG EAST ELEVATION

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



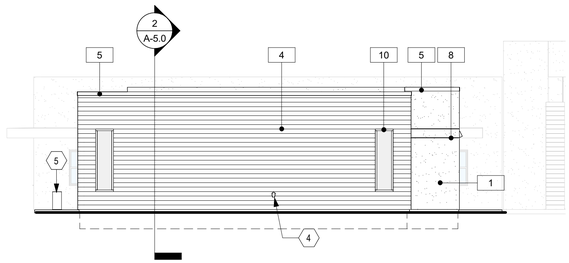
6 APPARATUS BLDG NORTH ELEVATION

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



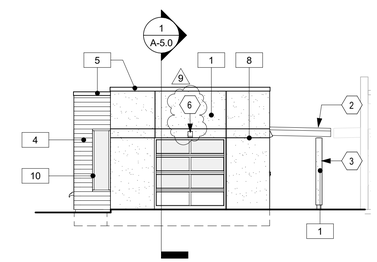
5 APPARATUS BLDG SOUTH ELEVATION

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



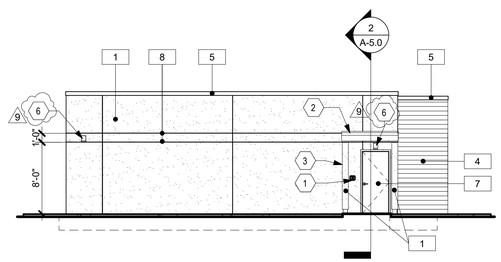
4 GYM BLDG SOUTH ELEVATION

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



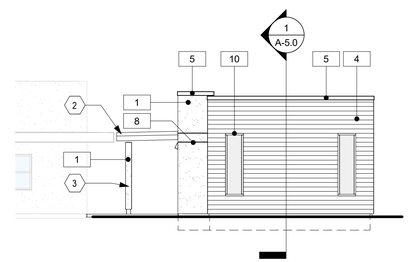
2 GYM BLDG EAST ELEVATION

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



3 GYM BLDG NORTH ELEVATION

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



1 GYM BLDG WEST ELEVATION

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

KEYNOTES

1. KNOX BOX; HEIGHT PER FIRE DEPARTMENT
2. NEW ROOF CANOPY
3. 6X6 WOOD POST WRAPPED WITH STUCCO SYSTEM O/ 1/2" PLYWOOD
4. ROOF DRAIN LEADER OVERFLOW OUTLET
5. CONDENSER ON PAD, REF MECHANICAL DWGS
6. LIGHT FIXTURE, REF ELECTRICAL DWGS

EXTERIOR FINISHES

1. EXTERIOR CEMENT PLASTER SYSTEM FIELD:
   MANUFACTURER: SHERWIN WILLIAMS
   COLOR: SW 0054 TWILIGHT GRAY
2. EXTERIOR CEMENT PLASTER SYSTEM ACCENT:
   MANUFACTURER: GLIDDEN/ICI
   COLOR: #30YR COACH LAMP COPPER
3. EXTERIOR CEMENT PLASTER SYSTEM FIELD:
   MANUFACTURER: SHERWIN WILLIAMS
   COLOR: #A2000 #30BB 31/022 GREY PENNANT
4. CORRUGATED METAL WALL PANELS:
   MANUFACTURER: ATAS INTERNATIONAL, INC
   COLOR: MORIN COLONIAL RED
   (MATCH (E) BLDG PROFILE INCLUDING EXPOSED FASTENERS
5. METAL PARAPET COPING:
   COLOR: MATCH ADJACENT WALL COLOR
6. CANOPY: CEMENT PLASTER SYSTEM
   MANUFACTURER: SHERWIN WILLIAMS
   COLOR: SW 7076 CYBERSPACE
7. HOLLOW METAL DOOR & FRAME:
   MANUFACTURER: STEELCRAFT
   COLOR: MATCH ADJACENT WALL COLOR
8. FRY PCS-75-200 ALUM CHANNEL SCREED (HORIZ. REVEALS)
   FRY PCS-75-25/25 REVEAL (VERT. JOINTS)
   MANUFACTURER: FRY REGLET ARCHITECTURAL METALS
   COLOR: VERT MATCH ADJACENT WALL COLOR
   HORIZ. PREFIN ALUM FINISH
   REFER TO DETAIL 6/A-9.0
9. GALVANIZED ROLLING STEEL SERVICE DOOR:
   MANUFACTURER: TBD
   COLOR: MATCH (E) DOORS
10. ALUMINUM STOREFRONT SYSTEM:
    MANUFACTURER: ARCADIA
    COLOR: DARK BRONZE ANODIZED

ELEVATION NOTES

1. ALL EXTERIOR WALLS SHALL BE 2X6 WOOD STUDS. REF STRUCTURAL PLANS.
2. EXTERIOR FINISH TO BE CEMENT PLASTER OR HORIZONTAL CORRUGATED METAL SIDING WHERE OCCURS. REF EXTERIOR ELEVATIONS.
3. INSULATE ALL EXTERIOR STUD WALL WITH R-21 BATTS INSULATION.
4. PROVIDE FLASHING AT ALL EXTERIOR DOOR, WINDOWS AND OTHER EXTERIOR OPENINGS.
5. PARAPET CAPS SHALL BE PAINTED TO MATCH ADJACENT FINISH.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE
Contractor_____	5/16/25	RJ	2 IN HOUSE REVISIONS		
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS		
Date Completed_____					

BENCH MARK

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGBY C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

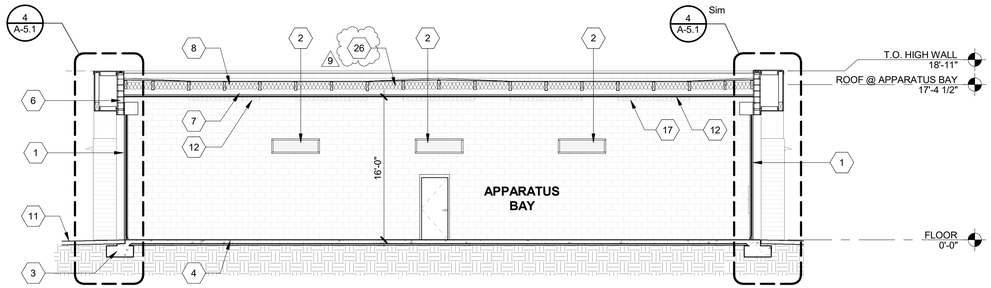
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEN, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
EXTERIOR ELEVATIONS

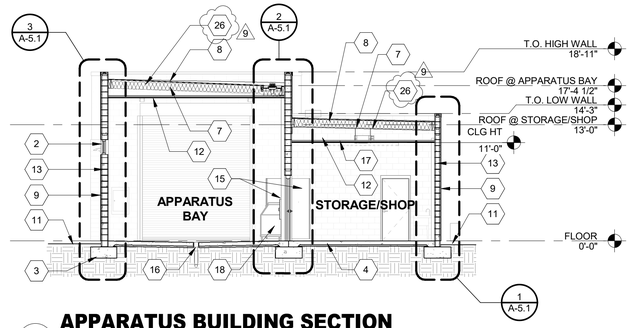
Drawing No. A-4.0
Sheet ____ of ____

PRINTED: 6/4/2026



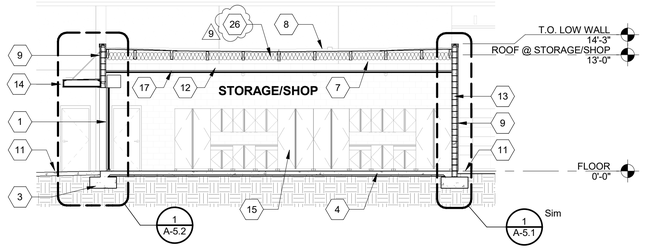
5 APPARATUS BUILDING SECTION

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



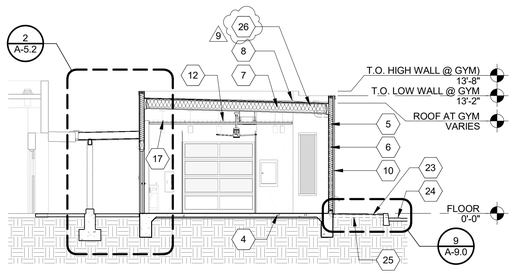
4 APPARATUS BUILDING SECTION

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



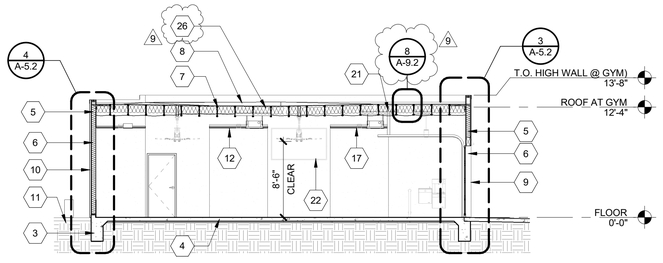
3 APPARATUS BUILDING SECTION

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



2 GYM BUILDING CROSS-SECTION

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



1 GYM BUILDING SECTION

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

BUILDING SECTION KEYNOTES

1. DOOR AS SCHEDULED
2. ALUMINUM STOREFRONT SYSTEM
3. CONCRETE FOUNDATION, REF STRUCT DWGS
4. CONCRETE SLAB, REF REF STRUCT DWGS
5. 2X WOOD STUDS, REF STRUCT DWGS
6. R-13 WALL INSULATION TIGHT TO ROOF DECK
7. ROOF FRAMING, REF STRUCT DWGS
8. ROOF SYSTEM ON PLYWOOD DECK, RUN UP AND OVER INTERIOR SIDE OF PARAPET WALLS.
9. EXTERIOR CEMENT PLASTER SYSTEM.
10. CORRUGATED GALVANIZED STEEL WALL PANEL
11. FINISH GRADE, REF CIVIL DWGS
12. SUSPENDED CEILING SYSTEM (9 / A-9.2)
13. FULLY GROUTED REINFORCED CMU WALL, REF STRUCT DWGS
14. STEEL FRAMED CANOPY, REF STRUCT DWGS
15. PRE-FABRICATED CABINET SET BEYOND BY "SABER CABINETS" OR EQUAL.
16. TRENCH DRAIN, REF PLUMBING DWGS
17. LIGHT FIXTURE, REF ELECTRICAL DWGS
18. RELOCATED ICE MACHINE, REF PLUMBING AND ELECTRICAL DWGS. COORDINATE RELOCATION W/ OWNER.
19. HVAC ROOF TOP UNIT ON EQUIPMENT CURB, REF MECHANICAL DWGS
20. EXHAUST FAN ON CURB. REF MECHANICAL DWGS
21. HORIZONTAL TRACK SUPPORT
22. WALL MOUNTED MONITOR
23. PLANTER, REF CIVIL DWGS
24. DRIVEWAY PAVEMENT, REF CIVIL DWGS
25. ROOF DRAIN & OVERFLOW DRAIN PIPING THROUGH STD CURB
26. R-19 INSULATION WITH BLACK SCRIM AT ROOF (9)

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413|B25-0079

BUILDING AND SAFETY
REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY
APPROVED BY: _____ NAME _____ DATE

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor	5/16/25	RJ	2 IN HOUSE REVISIONS				Horizontal: As indicated
Inspector	04/09/26	RJ	9 IN HOUSE REVISIONS				Vertical: As indicated
Date Completed							

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date _____
R.C.E. No. _____

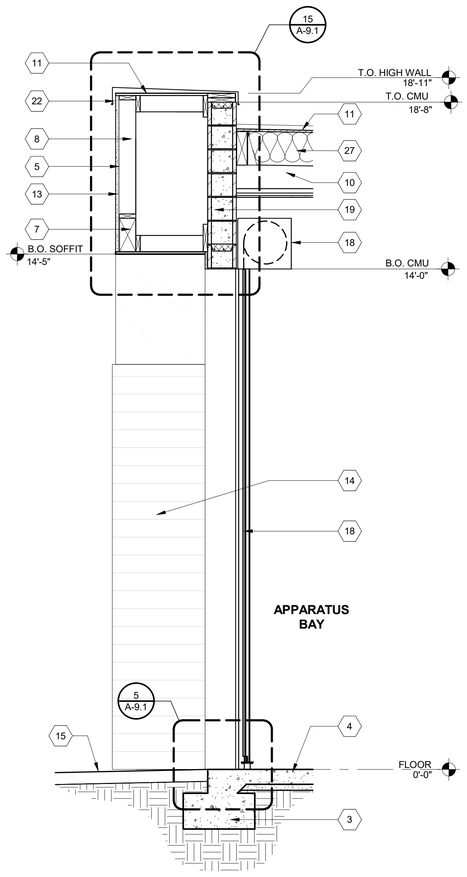
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
BUILDING SECTIONS

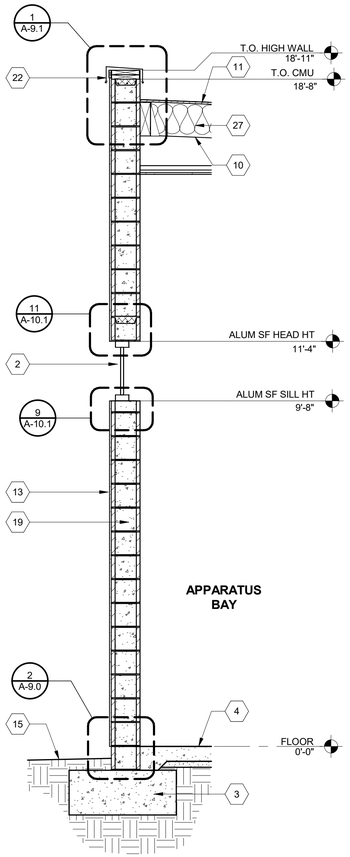
Drawing No. **A-5.0**
Sheet ____ of ____

PRINTED: 6/4/2026



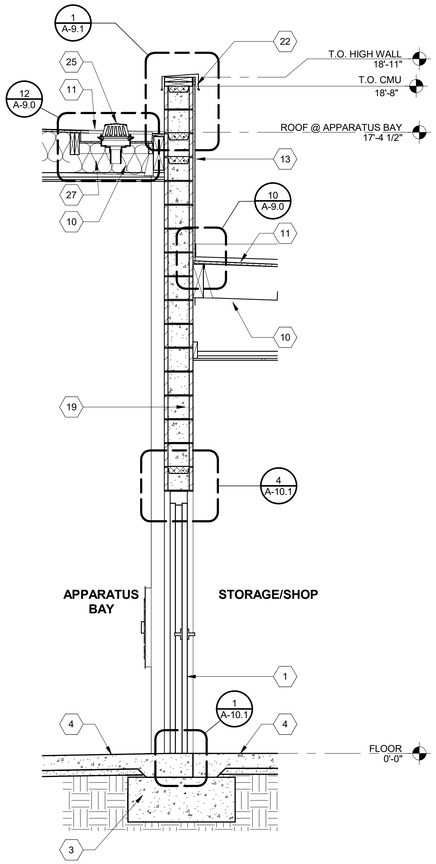
4 WALL SECTION @ APPARATUS BLDG

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



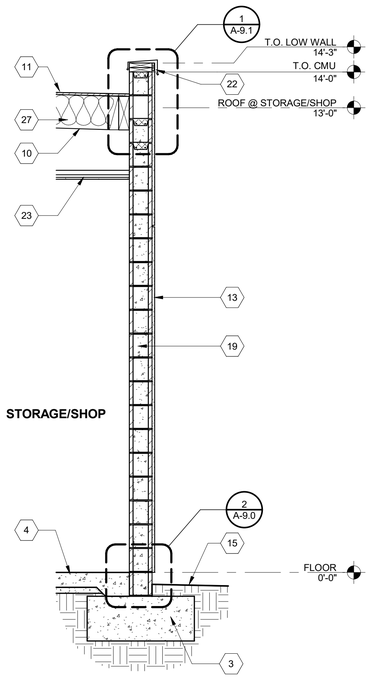
3 WALL SECTION @ APPARATUS BLDG

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



2 WALL SECTION @ APPARATUS BLDG

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



1 WALL SECTION @ APPARATUS BLDG

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

WALL SECTION KEYNOTES

1. DOOR AS SCHEDULED
2. ALUMINUM STOREFRONT SYSTEM
3. CONCRETE FOUNDATION, REF STRUCT DWGS
4. CONCRETE SLAB, REF STRUCT DWGS
5. WOOD SHEATHING, REF STRUCT DWGS
6. TPO ROOFING ON WOOD SHEATHING, SLOPED 1/4":12"
7. WOOD BEAM, REF STRUCT DWGS
8. 2X WOOD STUDS, REF STRUCT DWGS
9. WALL INSULATION TIGHT TO ROOF DECK
10. PRE- FABRICATED ROOF TRUSSES, REF STRUCT DWGS
11. ROOF SYSTEM ON PLYWOOD DECK, RUN UP AND OVER INTERIOR SIDE OF PARAPET WALLS.
12. PRE- FINISHED GALV. SHEET METAL COPING
13. EXTERIOR CEMENT PLASTER SYSTEM
14. CORRUGATED METAL WALL PANEL, SEE ELEVATIONS
15. FINISH GRADE, REF CIVIL DWGS
16. ROOF DECK, REF STRUCT DWGS
17. SUSPENDED CEILING SYSTEM
18. ROLL-UP SECTIONAL DOOR
19. FULLY GROUTED REINFORCED CMU WALL, REF STRUCT DWGS
20. ACOUSTICAL TILE CEILING ELEMENT
21. STEEL FRAMED CANOPY, REF STRUCT DWGS
22. METAL COPING PAINTED TO MATCH ADJACENT EXT'R FINISH
23. SUSPENDED GYP BD CEILING, REF REFLECTED CLG PLAN
24. LIGHT FIXTURE, REF ELECTRICAL DWGS
25. ROOF DRAIN, REF ROOF PLAN AND PLUMBING DWGS
26. CANOPY HANGER ROD, REF STRUCT DWGS
27. ROOF INSULATION & SCRIM, REF CEILING DETAILS

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	2 IN HOUSE REVISIONS			
Inspector_____						
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGLER C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

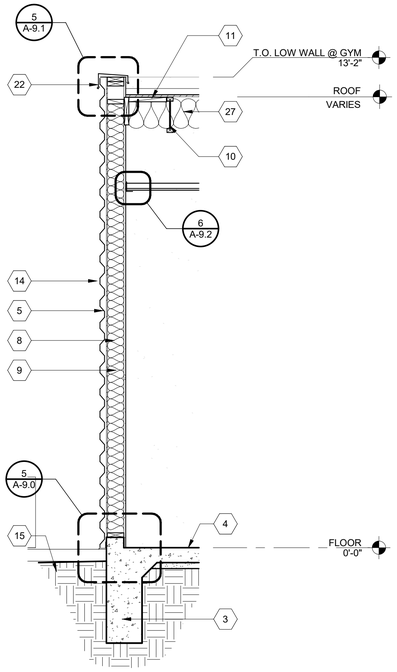
CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
WALL SECTIONS

Drawing No. A-5.1

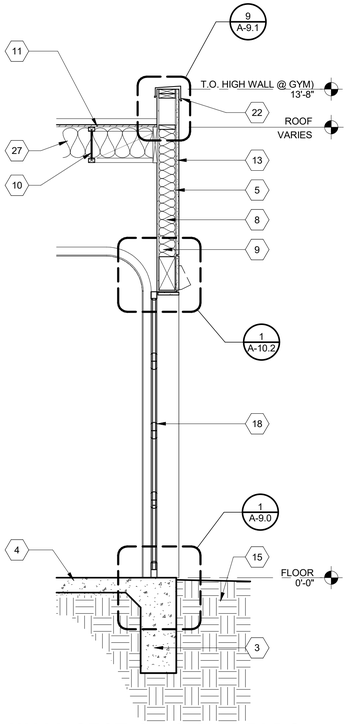
Sheet ____ of ____

PRINTED: 6/4/2026



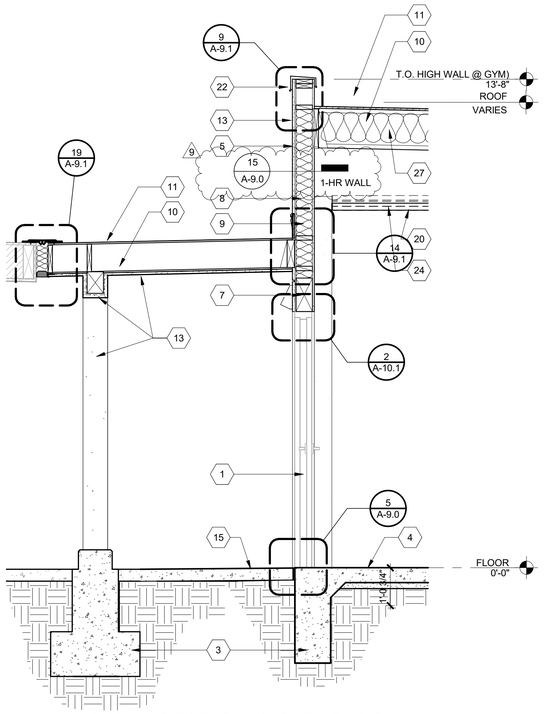
4 WALL SECTION @ GYM BLDG

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



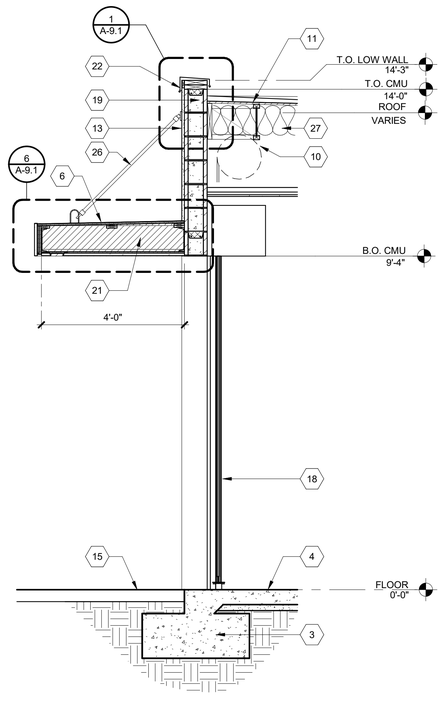
3 WALL SECTION @ GYM BLDG

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



2 WALL SECTION @ GYM BLDG

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



1 WALL SECTION @ APPARATUS BLDG

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

WALL SECTION KEYNOTES

1. DOOR AS SCHEDULED
2. ALUMINUM STOREFRONT SYSTEM
3. CONCRETE FOUNDATION, REF STRUCT DWGS
4. CONCRETE SLAB, REF STRUCT DWGS
5. WOOD SHEATHING, REF STRUCT DWGS
6. TPO ROOFING ON WOOD SHEATHING, SLOPED 1/4":12"
7. WOOD BEAM, REF STRUCT DWGS
8. 2X WOOD STUDS, REF STRUCT DWGS
9. WALL INSULATION TIGHT TO ROOF DECK
10. PRE- FABRICATED ROOF TRUSSES, REF STRUCT DWGS
11. ROOF SYSTEM ON PLYWOOD DECK, RUN UP AND OVER INTERIOR SIDE OF PARAPET WALLS.
12. PRE- FINISHED GALV. SHEET METAL COPING
13. EXTERIOR CEMENT PLASTER SYSTEM
14. CORRUGATED METAL WALL PANEL, SEE ELEVATIONS
15. FINISH GRADE, REF CIVIL DWGS
16. ROOF DECK, REF STRUCT DWGS
17. SUSPENDED CEILING SYSTEM
18. ROLL-UP SECTIONAL DOOR
19. FULLY GROUTED REINFORCED CMU WALL, REF STRUCT DWGS
20. ACOUSTICAL TILE CEILING ELEMENT
21. STEEL FRAMED CANOPY, REF STRUCT DWGS
22. METAL COPING PAINTED TO MATCH ADJACENT EXT'R FINISH
23. SUSPENDED GYP BD CEILING, REF REFLECTED CLG PLAN
24. LIGHT FIXTURE, REF ELECTRICAL DWGS
25. ROOF DRAIN, REF ROOF PLAN AND PLUMBING DWGS
26. CANOPY HANGER ROD, REF STRUCT DWGS
27. ROOF INSULATION & SCRIM, REF CEILING DETAILS

UNDERGROUND SERVICE ALERT

CALL TOLL FREE
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

T.R. DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	2 IN HOUSE REVISIONS			
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

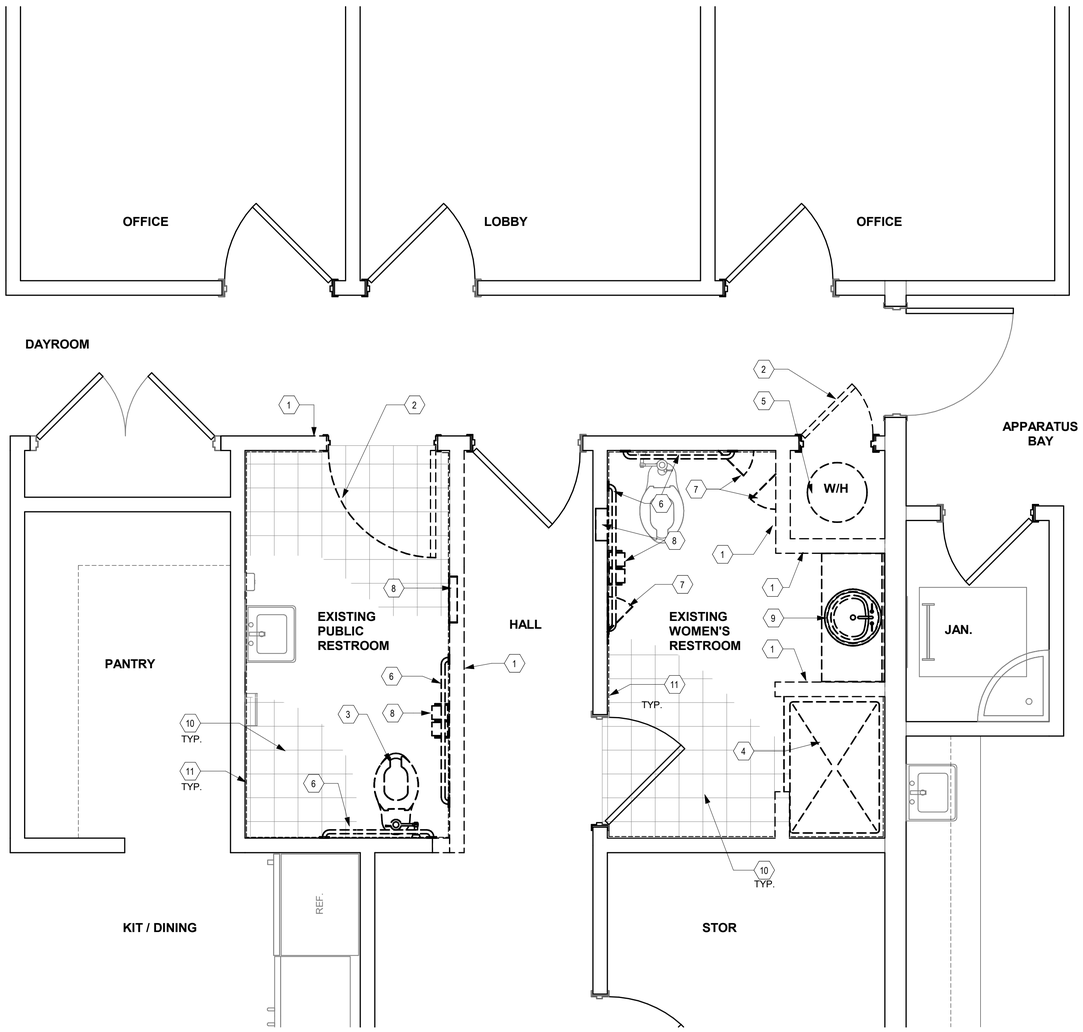
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
WALL SECTIONS

Drawing No. **A-5.2**

Sheet ____ of ____

PRINTED: 6/4/2026



1 DEMO EXIST - RESTROOM

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

DEMO NOTES

1. THE FOLLOWING NOTES DESCRIBE THE GENERAL REQUIREMENTS FOR THE DEMOLITION OF THE SELECTED PORTIONS OF THE PROJECT. THESE REQUIREMENTS ARE NOT ALL INCLUSIVE OF ALL THE WORK NECESSARY TO COMPLETE THIS PORTION AND MAY REQUIRE ADDITIONAL INCIDENTAL WORK FOR PROPER EXECUTION
2. PRIOR TO DEMOLITION WORK, THE CONTRACTOR SHALL DISCUSS SCHEDULING AND PHASING WITH THE OWNER AND PRESENT A PROGRAM AS REQUIRED WHICH OUTLINE THE ORDER OF PRECEDENCE FOR THE WORK IN ACCORDANCE WITH THE OWNER / OCCUPANTS REQUIREMENTS FOR BUILDING OCCUPANCY.
3. THROUGHOUT THE COURSE OF DEMOLITION ACTIVITIES, PROPERLY PROTECT ANY EXISTING CONSTRUCTION INDICATED TO REMAIN, EXERCISE CARE WHEN REMOVING ADJACENT CONSTRUCTION AND PROPERLY REPAIR (TO ORIGINAL CONDITION) ANY AREAS SCHEDULED TO REMAIN THAT SUSTAIN DAMAGE AS A RESULT OF DEMOLITION ACTIVITIES
4. EXISTING DRAWINGS AND DEMOLITION PLANS ARE PREPARED FROM EXISTING PLANS PROVIDED BY THE OWNER AND FROM VISUAL INSPECTIONS OF FIELD CONDITIONS. NO DETAILED SURVEY OF FIELD MEASUREMENTS WERE TAKEN TO VERIFY EACH AND EVERY EXISTING CONDITION. THE CONTRACTORS SHALL SURVEY THE EXISTING CONDITIONS AND REFER TO DRAWINGS BEFORE ANY DEMOLITION WORK CAN BEGIN. ANY CONFLICT BETWEEN EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO ARCHITECTS ATTENTION PRIOR TO PROCEEDING
5. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL DEMOLITION ACTIVITIES WITH ANY NEW CONSTRUCTION AS INDICATED WITHIN THE CONSTRUCTION DOCUMENTS
6. DO NOT SCALE DRAWINGS
7. ANY CUTTING AND REMOVAL INDICATED ON THE CONSTRUCTION DOCUMENTS ARE GENERAL INDICATIONS ONLY AND MAY NOT NECESSARILY SHOW THE FULL EXTENT OF CUTTING AND REMOVAL NECESSARY
8. EXCEPT AS NOTED OTHERWISE, REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS, DO NOT BURN, BURY, OR SELL MATERIALS ON THE PROJECT SITE. AT THE COMPLETION OF EACH WORK DAY, CLEAN THE ENTIRE WORK AREA AND LEAVE IN A NEAT CONDITION FREE OF DEBRIS AND RUBBISH
9. DEMOLITION WORK SHALL BE EXECUTED IN CONFORMANCE WITH ALL CODES AND ORDINANCES AS SET FORTH BY ALL AUTHORITIES HAVING JURISDICTION (AHJ)
10. THE CONTRACTOR SHALL NOT CUT ANY EXISTING STRUCTURAL WORK IN ANY MANNER. THE CONTRACTOR SHALL PROTECT ALL LOAD BEARING STRUCTURAL ELEMENTS AND PROVIDE ADDITIONAL TEMPORARY SUPPORT IF REQUIRED DURING DEMOLITION WORK
11. REMOVE EXISTING CONSTRUCTION AS INDICATED. TYPICAL WALL REMOVAL SHALL INCLUDE MECHANICAL, PLUMBING, ELECTRICAL, COMMUNICATIONS AND SECURITY SYSTEMS CONTAINED THEREIN. REMOVE DOORS, CABINETWORK, CASEWORK, FINISHES, FIXTURES AND THEIR ATTACHMENTS AS REQUIRED. AFTER REMOVAL, REPAIR HOLES IN EXISTING-TO- REMAIN WALLS, BARRIERS, FLOORS ABOVE AND ROOFS TO BE WATER TIGHT AND TO COMPLY WITH STRUCTURAL INTEGRITY.
12. THE CONTRACTOR SHALL BRACE ALL EXISTING STRUCTURES AND ALL STRUCTURAL ELEMENTS AS NECESSARY DURING DEMOLITION
13. WHERE EXISTING CONSTRUCTION IS FOUND TO CONTAIN ANY HAZARDOUS MATERIAL, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER AND THE ARCHITECT IN WRITING, REMOVAL, DISPOSAL AND REPLACEMENT OF THE HAZARDOUS MATERIAL IS THE SOLE RESPONSIBILITY OF THE OWNER, AND SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS
17. REMOVE DEMOLITION MATERIALS PROMPTLY AND DISPOSE OF LEGALLY OFF SITE. USE ONLY MEANS AND PATHS FOR MATERIAL REMOVAL AS APPROVED BY THE OWNER. WHERE REMOVAL IS PERMITTED THROUGH OCCUPIED AREAS OF THE BUILDING. COVER, WRAP OR OTHERWISE CONTAIN MATERIALS SO REMOVES. INSPECT AND CLEAN DAILY THE ROUTE USED FOR SUCH REMOVAL
19. IF ANY EXISTING FIREPROOFING AND / OR RATED ASSEMBLIES (WHICH ARE SUPPOSED TO REMAIN) ARE DAMAGED DURING DEMOLITION, THEY SHALL BE REPAIRED TO CONFORM TO THE ORIGINAL FIRE PROTECTION REQUIREMENTS, ALSO, THE INTEGRITY OF EXISTING RATED FLOOR, WALL, AND BARRIER ASSEMBLIES (WHICH ARE SUPPOSED TO REMAIN) SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION. (NOTE: AS APPLICABLE, CONTACT INTERIOR DESIGNER TO VERIFY TESTED ASSEMBLIES TO BE USED FOR REPAIRS.)
20. CAREFULLY REMOVE ACOUSTIC TILE CEILING & GRID AS REQUIRED TO DEMO EXISTING AND PROTECT ALL OF EXISTING CONSTRUCTION THAT IS TO REMAIN
21. PRECAUTION SHALL BE TAKEN WHEN REMOVING DRYWALL FROM BEARING WALLS TO PROPERLY PROTECT EXISTING WOOD STUD FRAMING
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE JOB SITE THROUGHOUT PROVIDING SECURITY LIGHTING, TEMPORARY FENCING, AND ANY BREACHES IN SECURITY DURING CONSTRUCTION
23. WHEN CUTTING UTILITY TRENCHES IN THE EXISTING SLAB AS REQUIRED PER THE PLANS, THE CONTRACTOR SHALL BACKFILL PER PLANS AND SPECIFICATIONS AND REPLACE CONCRETE SLAB PER DETAILS ON PLANS WITH ALL REINFORCING AND DOWELLS AS INDICATED.

KEYNOTES

1. EXISTING WOOD FRAMED PARTITION TO BE DEMO'D
2. EXISTING DOOR AND FRAME TO BE REMOVED
3. EXISTING FIXTURES TO BE DEMOLISHED
4. EXISTING SHOWER, FIXTURES AND PLUMBING TO BE DEMO'D, WATER LINES AND DRAINS SHALL BE CAPPED TO BE EXTENDED TO NEW LOCATION.
5. EXISTING EQUIPMENT TO BE DEMO'D
6. EXISTING GRAB BAR TO BE DEMO'D.
7. EXISTING ACCESS PANELS TO BE REMOVED AND REPLACED FOR WALL FINISHES UPDATE.
8. EXISTING TOILET ACCESSORIES TO BE DEMO'D
9. EXISTING LAVATORY COUNTER, SINK AND FIXTURES TO BE DEMO'D
10. EXISTING FINISH FLOOR TILE TO BE DEMO'D
11. EXISTING WALL TILE TO BE DEMO'D

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____	9/12/25	RJ	5 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGBY C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By
	RJ	

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

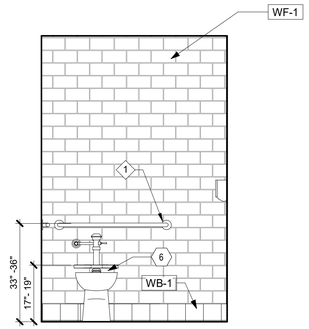
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
EXISTING TOILET ROOM DEMO PLAN

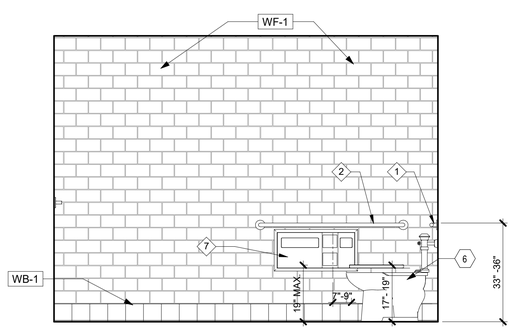
Drawing No. A-6.0
Sheet _____ of _____

PRINTED: 5/29/2026



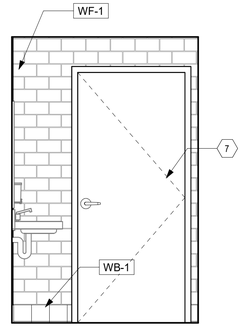
10 ALL GENDER D

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



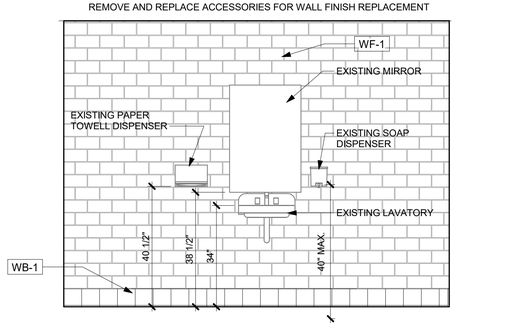
9 ALL GENDER C

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



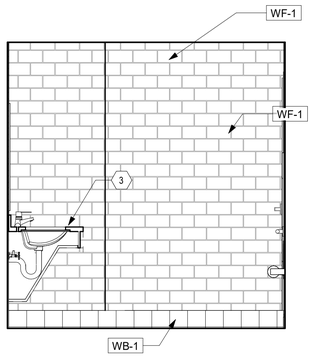
8 ALL GENDER B

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



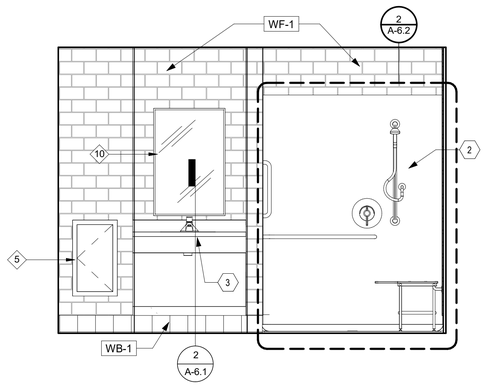
7 ALL GENDER A

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



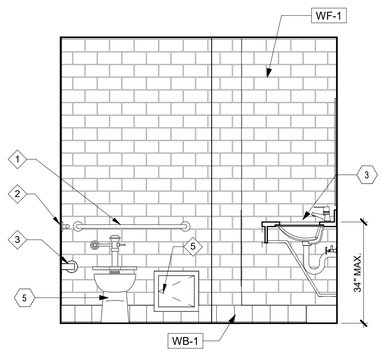
6 WOMENS D

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



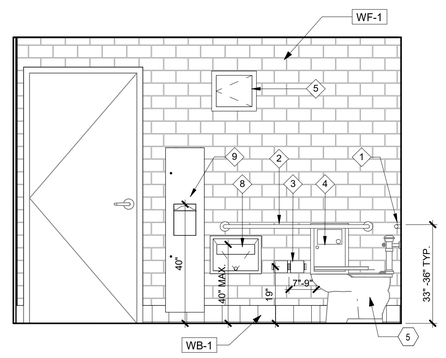
5 WOMENS C

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



4 WOMENS B

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



3 WOMENS A

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

#	DESCRIPTION	MFG.	MODEL	COMMENTS
1	36" STAINLESS STEEL GRAB BAR	BOBRICK	B-5806 x 36"	
2	48" STAINLESS STEEL GRAB BAR	BOBRICK	B-5806 x 48"	
3	TOILET PAPER HOLDER	EXISTING		REINSTALL AFTER WALL FINISHES
4	SANITARY DISPOSAL	EXISTING		REINSTALL AFTER WALL FINISHES
5	ACCESS PANEL	EXISTING		REINSTALL AFTER WALL FINISHES
6	ACCESSIBLE DOOR SIGN	-	-	SEE DETAIL 1/ T-1.3
7	COMBO TOILET PAPER / SEAT COVER / WASTE	BOBRICK	B-3091	
8	TOILET SEAT COVER DISPENSER	EXISTING		REINSTALL AFTER WALL FINISHES
9	PAPER TOWEL AND WASTE	BOBRICK	B-38034	
10	MIRROR	BOBRICK	B-165 24"X36"	

RESTROOM ACCESSORIES SCHEDULE

#	CATEGORY	MANUF.	MAKE / MODEL / COLOR
PL-1	PLASTIC LAMINATE	WILSONART	WHITE
SS-1	SOLID SURFACE	LX HAUSYS	HIMACS, ICE QUEEN W001
T-1	TILE FLOOR	DATILE	SYNCHRONIC CHARCOAL SY34 - 12"X12"
TS-1	TRANSITION STRIP	JOHNSONITE	
WB-1	COVE BASE	DATILE	SYNCHRONIC CHARCOAL Cove Base P36C9 6 x 12
WF-1	FRP WALL PANELS	MARLITE	SYMMETRIX A916-G63 WHITE W/ BLACK JOINTS

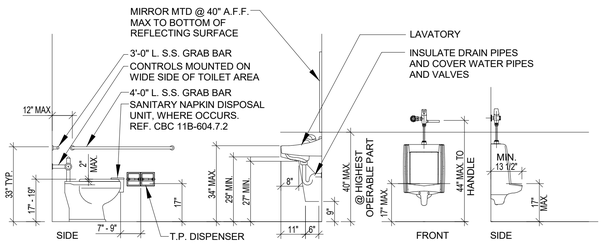
RESTROOM FINISH SCHEDULE

KEYNOTES

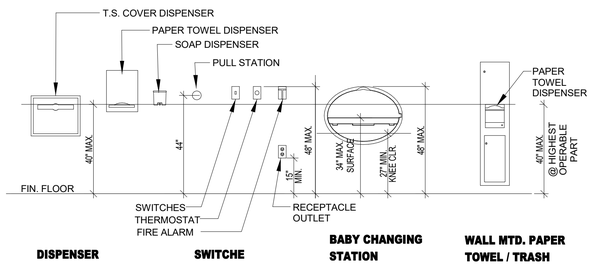
1. EXISTING LAVATORY TO REMAIN, P.I.P.
2. ACCESSIBLE SHOWER W/SEAT, SEE DETAIL 2/T-1.2 FOR SHOWER ACCESSIBILITY CODE REQTS. - REF PLUMBING PLANS
3. UNDERMOUNT SINK, KOHLER K-21058, WITH MANUAL FAUCET, CHICAGO 420-ABCP ON SOLID SURF. COUNTERTOP; REF ALSO PLUMBING DWGS.
4. NEW TANKLESS WATER HEATER, REF/ PLUMBING DWGS.
5. EXISTING WATER CLOSET TO REMAIN P.I.P.
6. EXISTING RELOCATED WATER CLOSET
7. EXISTING DOOR RELOCATED WITH EXISTING HARDWARE AND FRAME

TOILET NOTES

1. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL. A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. THE DOOR SWING CAN ENCROACH INTO THIS MANEUVERING SPACE.
2. LAVATORY CLEAR FLOOR SPACE. A 30"X48" CLEAR FLOOR SPACE, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306 SHALL BE PROVIDED AT ONE LAVATORY PER TOILET ROOM.
3. AS A MINIMUM FRP PANELS TO BE APPLIED BEHIND AND ADJACENT TO ALL WATER FIXTURES WITHIN RESTROOMS AT 4'-0" A.F.F.

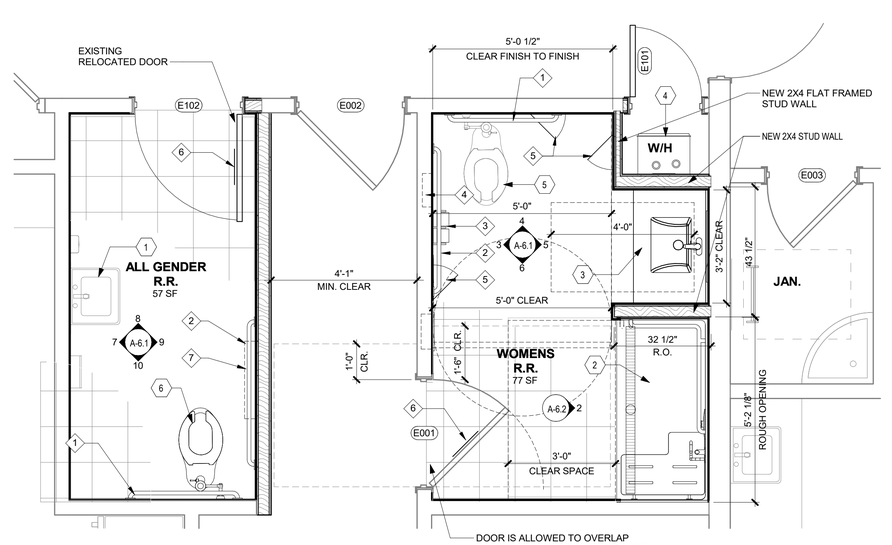


CBC 11B-604.7.2 DISPOSAL UNITS.
SANITARY NAPKIN DISPOSAL UNITS, IF PROVIDED, SHALL COMPLY WITH SECTION 11B-309.4 AND SHALL BE WALL MOUNTED AND LOCATED ON THE SIDEWALL BETWEEN THE REAR WALL OF THE TOILET AND THE TOILET PAPER DISPENSER, ADJACENT TO THE TOILET PAPER DISPENSER. THE DISPOSAL UNIT SHALL BE LOCATED BELOW THE GRAB BAR WITH THE OPENING OF THE DISPOSAL UNIT 19 INCHES MINIMUM ABOVE THE FINISH FLOOR.



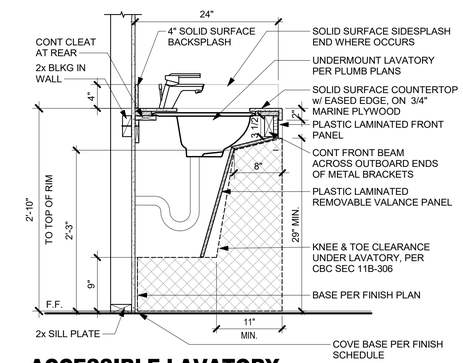
11 TOILET ACCESSORY MTG HTS

SCALE: 3/8" = 1'-0"



1 EXISTING - RESTROOM

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



2 ACCESSIBLE LAVATORY

SCALE: 1" = 1'-0"

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____	9/12/25	RJ	5 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGBY C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By
	RJ	

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
TOILET ROOM PLAN AND ELEVATIONS

Drawing No. A-6.1
Sheet _____ of _____

PRINTED: 5/29/2026

SHOWER

REF: CBC 11B-608.4:
A FOLDING SEAT SHALL BE PROVIDED IN ROLL-IN TYPE SHOWERS AND TRANSFER TYPE SHOWER COMPARTMENTS. SEATS SHALL COMPLY WITH SECTION 11B-610.

CBC 11B-610.3 SHOWER COMPARTMENT SEATS:
A SEAT IN A STANDARD ROLL-IN SHOWER COMPARTMENT SHALL BE A FOLDING TYPE, SHALL BE INSTALLED ON THE SIDE WALL ADJACENT TO THE CONTROLS, AND SHALL EXTEND FROM THE BACK WALL TO A POINT WITHIN 3" OF THE COMPARTMENT ENTRY. THE TOP OF THE SEAT SHALL BE 17" MINIMUM TO 19" MAXIMUM ABOVE TEH FINISH FLOOR. WHEN FOLDED, THE SEAT SHALL EXTEND 6" MAXIMUM FROM THE MOUNTING WALL. SEATS SHALL COMPLY WITH SECTION 610.3.1 OR 11B-610.3.2.

CBC-610.3.1 RECTANGULAR SEATS:
THE REAR EDGE OF A RECTANGULAR SEAT SHALL BE 2-1/2" MAXIMUM AND THE THE FRONT EDGE 15" MINIMUM AND 16" MAXIMUM FROM THE SEAT WALL. THE SIDE EDE OF THE SEAT SHALL BE 1-1/2" MAXIMUM FROM THE ADJACENT WALL.

11B-610.3.2 L-SHAPED SEATS:
THE REAR EDGE OF AN L-SHAPED SEAT SHALL BE 2-1/2" MAXIMUM AND THE FRONT EDGE 15" MINIMUM AND 16" MAXIMUM FROM THE SEAT WALL. THE REAR EDGE OF THE "L" PORTION OF THE SEAT SHALL BE 1-1/2" MAXIMUM FROM THE WALL AND THE FRONT EDGE SHALL BE 14" MINIMUM AND 15" MAXIMUM FROM THE WALL. THE END OF THE "L" SHALL BE 22" MINIMUM AND 23" MAXIMUM FROM THE MAIN SEAT WALL.

CBC 11B-610.4 STRUCTURAL STRENGTH:
ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHEN A VERTICAL OR HORIZONTAL LOAD IS APPLIED AT ANY POINT ON THE SEAT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE

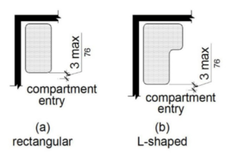


FIGURE *11B*-610.3
EXTENT OF SEAT

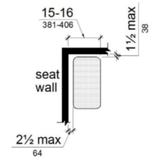


FIGURE *11B*-610.3.1
RECTANGULAR SHOWER SEAT

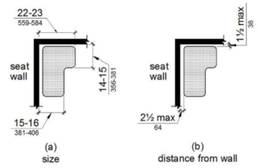


FIGURE *11B*-610.3.2
L-SHAPED SHOWER SEAT

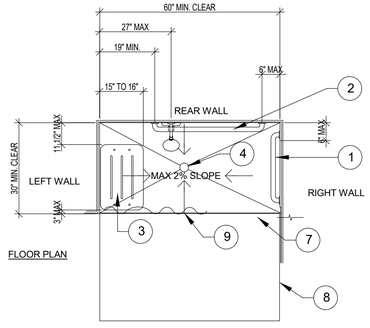
REF: CBC 11B-609.3:
THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1-1/2". THE SPACE BETWEEN THE GRAB BAR AND PROTRUDING OBJECTS BELOW AND AT THE ENDS SHALL BE 1-1/2" MINIMUM. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS SHALL BE 12" MINIMUM.
EXCEPTIONS:
1. THE SPACE BETWEEN THE GRAB BARS AND THE SHOWER CONTROLS, SHOWER FITTINGS, AND OTHER GRAB BARS SHALL BE PERMITTED TO BE 1-1/2" MINIMUM.
2. FOR L-SHAPED OR U-SHAPED GRAB BARS COMPLYING WITH SECTION 11B-609.9 THE SPACE BETWEEN THE WALLS AND THE GRAB BAR SHALL BE 1-1/2" MINIMUM FOR A DISTANCE OF 6" ON EITHER SIDE OF THE INSIDE CORNER BETWEEN TWO ADJACENT SURFACES

REF: CBC 11B-607.6: A SHOWER SPRAY UNIT WITH A HOSE 59" LONG MINIMUM THAT CAN BE USED AS A FIXED-POSITION SHOWER HEAD AND AS A HAND-HELD SHOWER SHALL BE PROVIDED. THE SHOWER SPRAY UNIT SHALL HAVE AN ON/OFF CONTROL WITH A NON-POSITIVE SHUT-OFF. IF AN ADJUSTABLE-HEIGHT SHOWER HEAD ON A VERTICAL BAR IS USED, THE BAR SHALL BE INSTALLED SO AS NOT TO OBSTRUCT THE USE OF GRAB BARS. SHOWER SPRAY UNITS SHALL DELIVER WATER THAT IS 120 DEGREES F MAXIMUM.

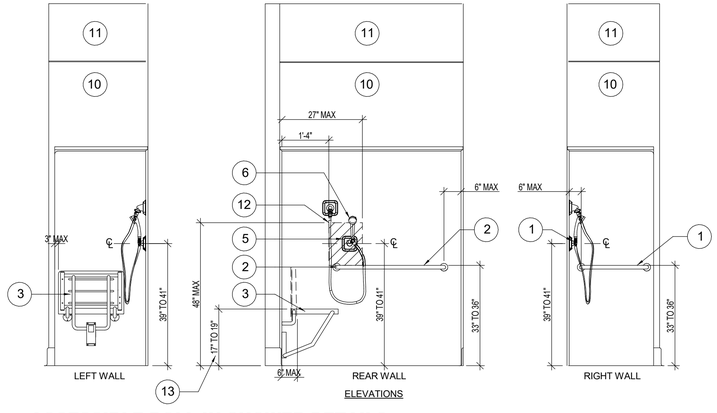
REF: CBC 11B-608.3:
GRAB BARS SHALL COMPLY WITH SECTION 11B-609 AND SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 11B-608.3. WHERE MULTIPLE GRAB BARS ARE USED, REQUIRED HORIZONTAL GRAB BARS SHALL BE INSTALLED AT THE SAME HEIGHT ABOVE FINISH FLOOR. WHERE SEPARATE GRAB BARS ARE REQUIRED ON ADJACENT WALLS AT A COMMON MOUNTING HEIGHT, AN L-SHAPED GRAB BAR MEETING THE DIMENSIONAL REQUIREMENTS OF SECTION 11B-608.3.2 OR 11B-608.3.3 SHALL BE PERMITTED.

REF: CBC 11B-608.9:
THE FLOOR SURFACE OF SHOWERS SHALL COMPLY WITH SECTION 11B-302.1 AND SHALL BE SLOPED 1:48 MAXIMUM IN ANY DIRECTION. WHERE DRAINS ARE PROVIDED, GRATE OPENINGS SHALL BE 1/4 INCH MAXIMUM AND FLUSH WITH THE FLOOR SURFACE.

REF: CBC 11B-608.10:
WHERE A SOAP DISH IS PROVIDED, IT SHALL BE LOCATED ON THE CONTROL WALL AT 40 INCHES MAXIMUM ABOVE THE SHOWER FLOOR, AND WITHIN THE REACH LIMITS FROM THE SEAT.



FLOOR PLAN



ELEVATIONS

KEY NOTES:

1. 22" x 1-1/4" DIA. GRAB BAR
2. 36" x 1-1/4" DIA. GRAB BAR
3. FOLDING SEAT, SEE SPEC
4. FLOOR DRAIN, SEE PLUMBING PLANS FOR ADDITIONAL INFORMATION
5. SINGLE LEVER CONTROL VALVE FOR HAND HELD SPRAY UNIT
6. HAND HELD SPRAY UNIT WITH 59" LONG FLEXIBLE HOSE, MOUNTED +48" ABOVE THE SHOWER FLOOR.
   REF: CBC 11B-608.5.2, 11B-608.6
7. 1/2" MAX THRESHOLD, BEVELED
8. REF: CBC 11B-608.2.2.1:
   A 36" WIDE MINIMUM BY 60" LONG MINIMUM CLEARANCE SHALL BE PROVIDED ADJACENT TO THE OPEN FACE OF THE SHOWER COMPARTMENT.
9. CBC 11B-608.9:
   SHOWER FLOORS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
10. FRP
11. PAINT
12. REF: CBC 11B-608.5.2:
    IN STANDARD ROLL-IN TYPE SHOWER COMPARTMENTS, THE CONTROLS, FAUCETS, AND THE SHOWER SPRAY UNIT SHALL BE LOCATED ON THE BACK WALL OF THE COMPARTMENT ADJACENT TO THE SEAT WALL 16 INCHES MINIMUM AND 27 INCHES MAXIMUM FROM THE SEAT WALL; AND SHALL BE LOCATED ABOVE THE GRAB BAR, BUT NO HIGHER THAN 48 INCHES ABOVE THE SHOWER FLOOR.
13. SEAT HEIGHT:
    +17" MIN TO +19" MAX ABOVE THE FINISH FLOOR OF THE RESTROOM

1 ACCESSIBLE ROLL-IN SHOWER DETAILS

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

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____						
Date Completed_____						

SCALE
Horizontal 12" = 1'-0"
Vertical 12" = 1'-0"

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By
	RJ	

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

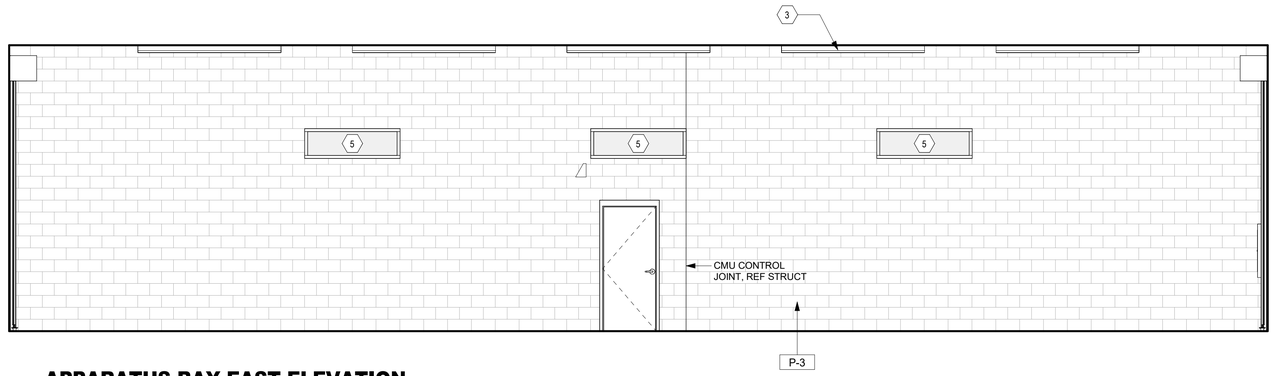
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEHPE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
ACCESSIBLE SHOWER DETAILS

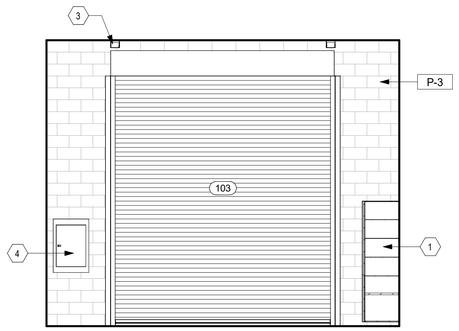
Drawing No. **A-6.2**
Sheet ____ of ____

PRINTED: 5/29/2026



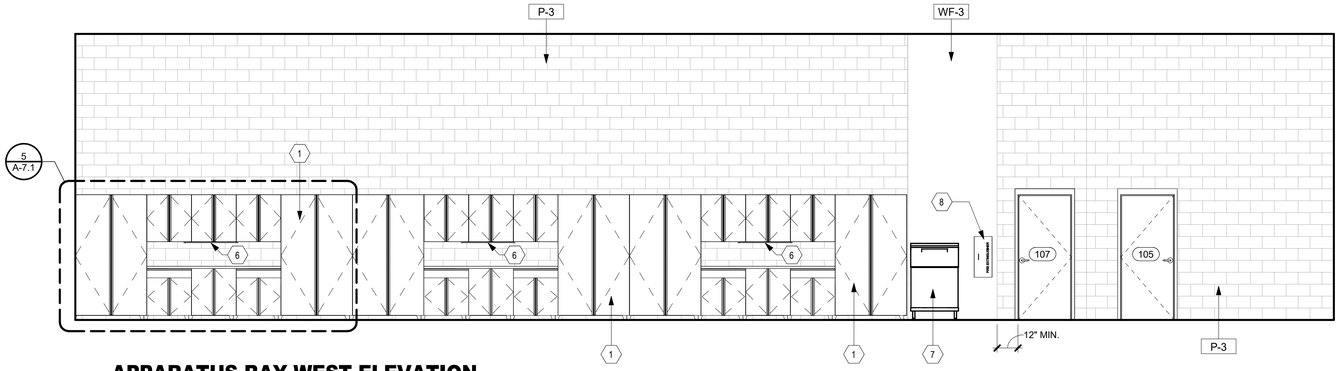
1 APPARATUS BAY EAST ELEVATION

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



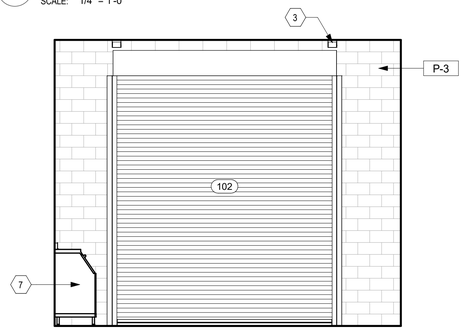
2 APPARATUS BAY SOUTH ELEVATION

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



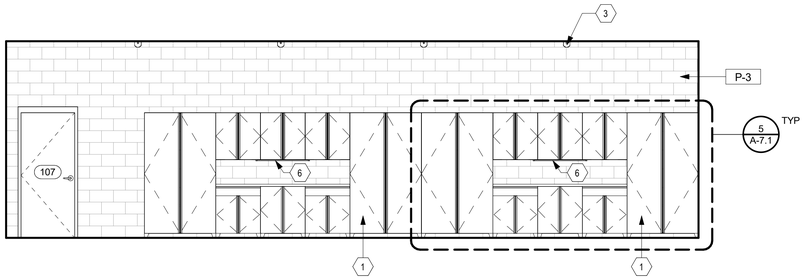
3 APPARATUS BAY WEST ELEVATION

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



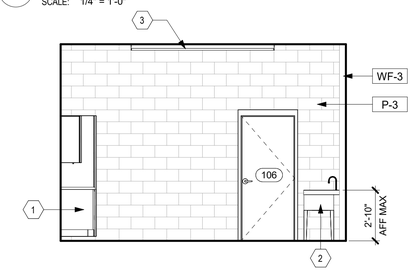
4 APPARATUS BAY NORTH ELEVATION

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



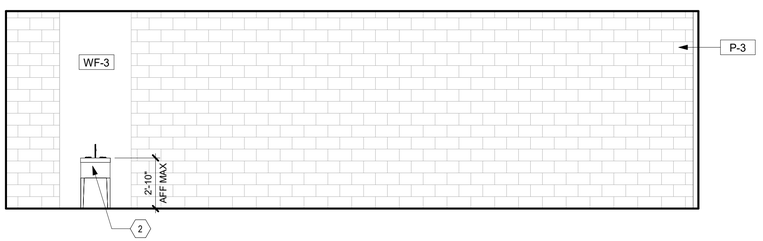
5 STORAGE/SHOP EAST ELEVATION

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



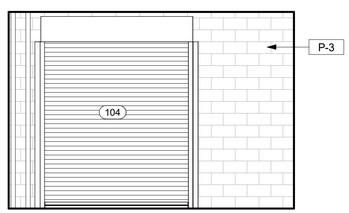
6 STORAGE/SHOP SOUTH ELEVATION

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



7 STORAGE/SHOP WEST ELEVATION

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



8 STORAGE/SHOP NORTH ELEVATION

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

KEYNOTES

1. PRE-FABRICATED CABINET SET BY "SABER CABINETS" OR EQUAL
2. HAND SINK, REF PLUMBING DWGS
3. SURFACE MOUNTED LIGHT FIXTURE; REF ELECTRICAL DWGS
4. POWER SUB-PANEL, REF ELECTRICAL DWGS
5. ALUMINUM STOREFRONT SYSTEM, REF A-10.0
6. UNDER CABINET LIGHTING, REF ELECTRICAL DWGS
7. RELOCATED ICE MACHINE. REF PLUMBING AND ELECTRICAL DWGS. COORDINATE RELOCATION W/ OWNER.
8. FIRE EXTINGUISHER IN SEMI-RECESSED CABINET

PAINT SCHEDULE

P-1	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-2	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-3	PAINTED CMU WALL COLOR: TBD

WALL FINISH SCHEDULE

WF-1	WALL MIRROR: 96" HIGH MIRROR FULLY ADHERED TO WALL WITH MIRROR MASTIC WITH CONTINUOUS S.S. J-CHANNEL, BOTTOM
WF-2	MONDO CONTRACT FLOORING STYLE: TBD COLOR: TBD
WF-3	FRP PANEL MFG: MARLITE - STANDARD PEBBLED COLOR:BRIGHT WHITE P 199

FINISH NOTES

1. WALL AND CEILING MATERIAL SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13
2. ALL EXPOSED EDGES OF MIRRORS SHALL BE FINISHED OR ALUMINUM CHANNEL PROVIDED.
3. WALL FINISH SHALL BE SMOOTH LEVEL 4 FINISH.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____							
Inspector_____							
Date Completed_____							

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

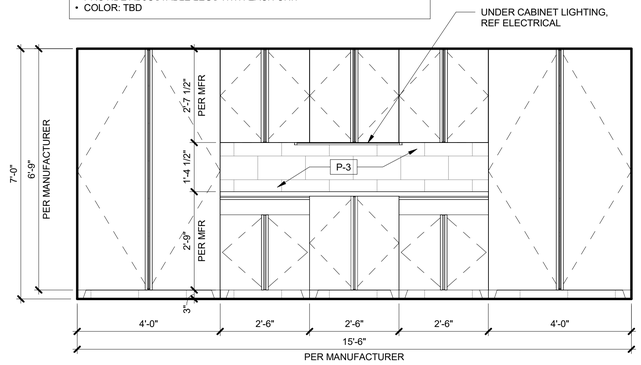
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
INTERIOR ELEVATIONS

Drawing No. **A-7.0**
Sheet ____ of ____

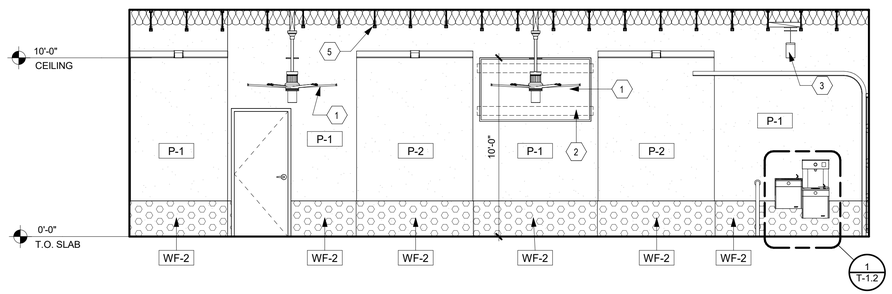
PRINTED: 5/30/2026

PRE-FABRICATED CABINET SET BY "SABER CABINETS" (901866) OR EQUAL:
- (2) 48" LOCKERS
- (3) WALL CABINETS
- (2) 1-DRAWER TOOL CABINETS
- (2) 2 DOOR BASE CABINET
- (1) 90" STAINLESS STEEL WORKTOP
- PROVIDE ADJUSTABLE LEGS WITH EACH UNIT
- COLOR: TBD



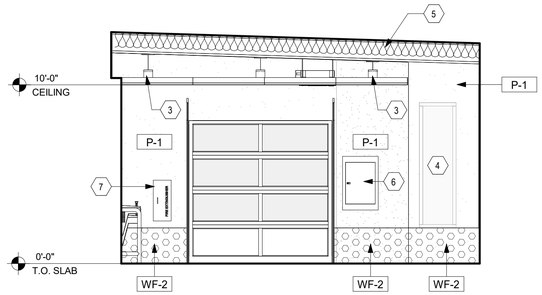
5 PRE-FABRICATED CABINET ELEVATION (TYP. @ 5)

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



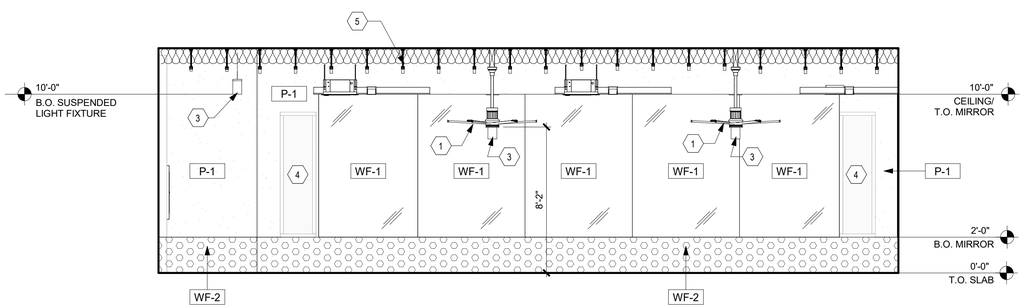
1 GYM NORTH ELEVATION

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



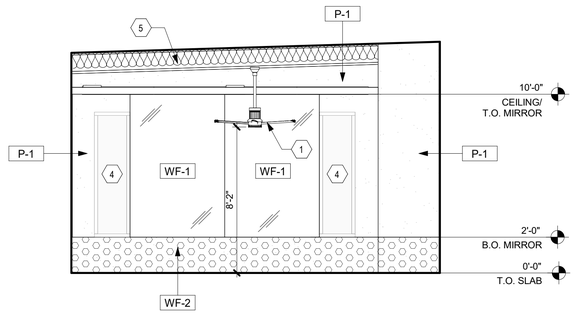
2 GYM EAST ELEVATION

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



4 GYM SOUTH ELEVATION

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



3 GYM WEST ELEVATION

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

KEYNOTES

1	CEILING FAN, REF ELECTRICAL AND REFLECTED CEILING DWGS.
2	WALL MOUNTED MONITOR, PROVIDE 6" W. X 18GA. SHEET METAL BACKING. REF ELECTRICAL DWGS FOR POWER AND DATA REQUIREMENTS.
3	SUSPENDED LIGHT FIXTURE; REF ELECTRICAL DWGS
4	ALUMINUM STOREFRONT SYSTEM, REF A-10.0
5	PRE- FABRICATED ROOF TRUSSES; REF STRUCT DWGS
6	POWER SUB-PANEL, REF ELECTRICAL DWGS
7	FIRE EXTINGUISHER IN SEMI-RECESSED CABINET

PAINT SCHEDULE

P-1	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-2	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-3	PAINTED CMU WALL COLOR: TBD

WALL FINISH SCHEDULE

WF-1	WALL MIRROR: 96" HIGH MIRROR FULLY ADHERED TO WALL WITH MIRROR MASTIC WITH CONTINUOUS S.S. J-CHANNEL, BOTTOM
WF-2	MONDO CONTRACT FLOORING STYLE: TBD COLOR: TBD
WF-3	FRP PANEL MFG: MARLITE - STANDARD PEBBLED COLOR:BRIGHT WHITE P 199

FINISH NOTES

1. WALL AND CEILING MATERIAL SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13
2. ALL EXPOSED EDGES OF MIRRORS SHALL BE FINISHED OR ALUMINUM CHANNEL PROVIDED.
3. WALL FINISH SHALL BE SMOOTH LEVEL 4 FINISH.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TRDESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____							
Inspector_____							
Date Completed_____							

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RUDOLF C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

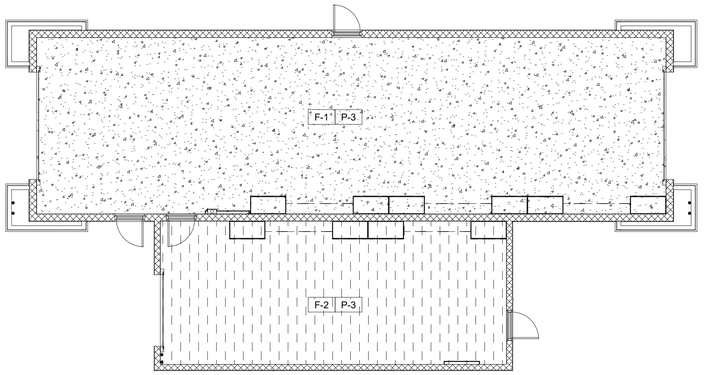
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
INTERIOR ELEVATIONS

Drawing No. A-7.1
Sheet ____ of ____

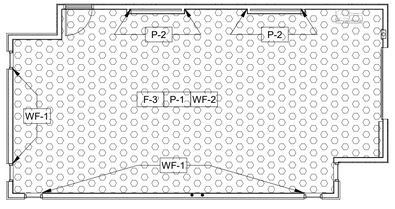
PRINTED: 5/29/2026



2 APPARATUS BUILDING FINISH PLAN

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

NORTH



1 GYM BUILDING FLOOR FINISH PLAN

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

NORTH

FLOORING SCHEDULE

F-1	SEALED CONCRETE COLOR: NATURAL
F-2	EPOXY FLOORING MFG: TBD STYLE: COLOR:
F-3	RUBBER FLOORING MFG: MONDO CONTRACT FLOORING STYLE: COLOR:

BASE SCHEDULE

B-1	JOHNSONITE TP WALL BASE STYLE: 6" TALL COIL TYPE COLOR: TBD FROM FULL RANGE

PAINT SCHEDULE

P-1	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-2	PAINTED GYPSUM WALL BOARD COLOR: TBD
P-3	PAINTED CMU WALL COLOR: TBD

WALL FINISH SCHEDULE

WF-1	WALL MIRROR: 96" HIGH MIRROR FULLY ADHERED TO WALL WITH MIRROR MASTIC WITH CONTINUOUS S.S. J-CHANNEL, BOTTOM
WF-2	MONDO CONTRACT FLOORING STYLE: TBD COLOR: TBD
WF-3	FRP PANEL MFG: MARLITE - STANDARD PEBBLED COLOR:BRIGHT WHITE P 199

FINISH NOTES

1. WALL AND CEILING MATERIAL SHALL NOT EXCEED THE FLAME SPREAD CLASSIFICATIONS IN CBC TABLE 803.13
2. ALL EXPOSED EDGES OF MIRRORS SHALL BE FINISHED OR ALUMINUM CHANNEL PROVIDED.
3. WALL FINISH SHALL BE SMOOTH LEVEL 4 FINISH.

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

TRDESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____							
Inspector_____							
Date Completed_____							

SCALE	
Horizontal	1/8" = 1'-0"
Vertical	1/8" = 1'-0"

SEAL: LICENSED ARCHITECT T. HOWARD WILLIAM RIGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No._____

RECOMMENDED BY: H. Jaiden 6/18/2026
HOSSEIN KAIDEN, PE, PRINCIPAL CIVIL ENGINEER DATE: _____

ACCEPTED BY: _____ 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE:

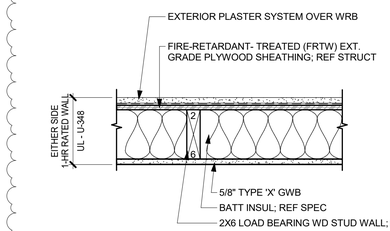
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
FLOOR FINISH PLAN

Drawing No. **A-8.0**

Sheet _____ of _____

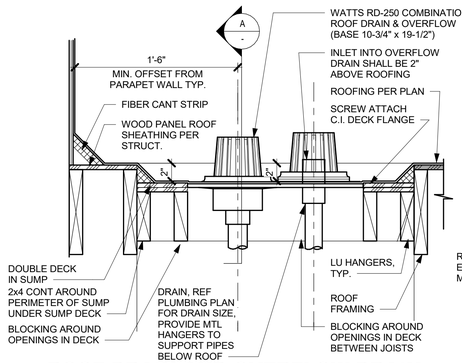
PRINTED: 5/29/2026



15 1-HOUR EXTERIOR WALL

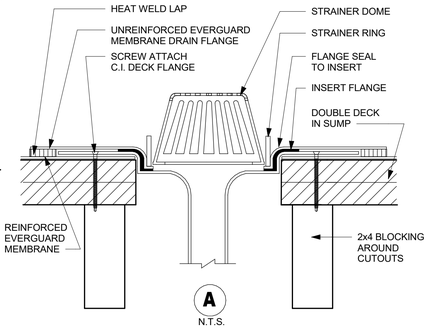
SCALE: 1 1/2" = 1'-0"

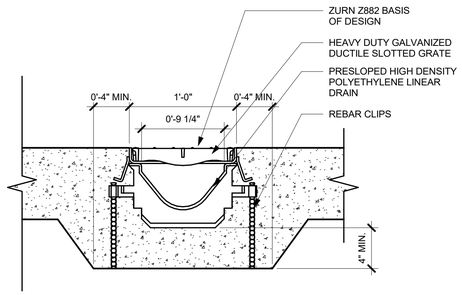
9



12 ROOF DRAIN AND OVERFLOW DRAIN

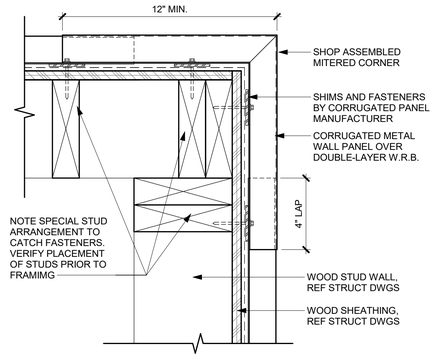
SCALE: 1 1/2" = 1'-0"





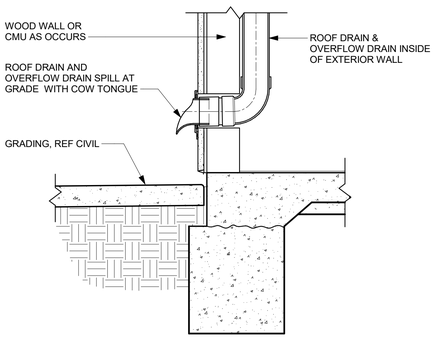
6 TRENCH DRAIN SECTION

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



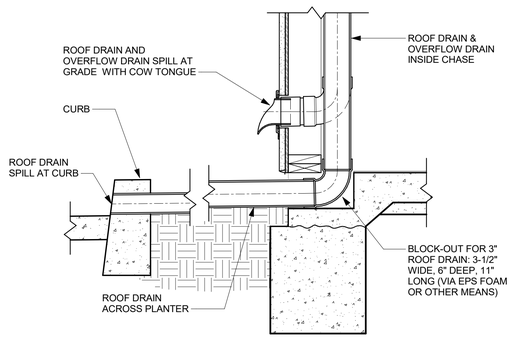
3 CORRUGATED PANEL CORNER

SCALE: 3" = 1'-0"



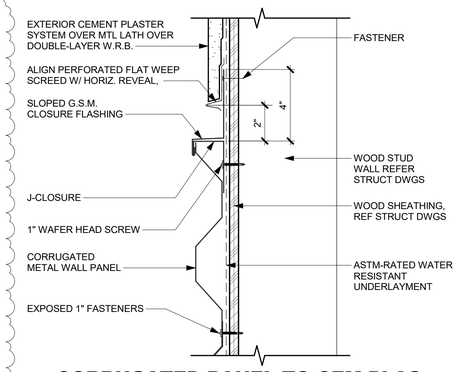
14 ROOF DRAIN AT GRADE

SCALE: 1" = 1'-0"



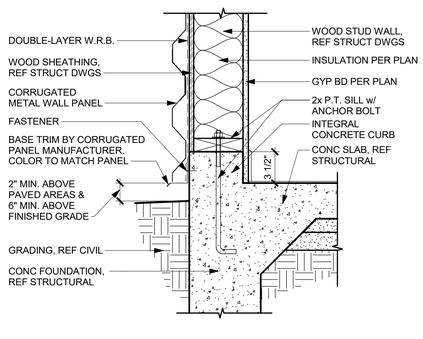
11 ROOF DRAIN AND OVERFLOW DETAIL

SCALE: 1" = 1'-0"



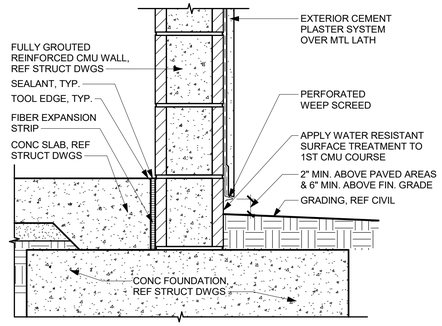
8 CORRUGATED PANEL TO CEM PLAS

SCALE: 3" = 1'-0"



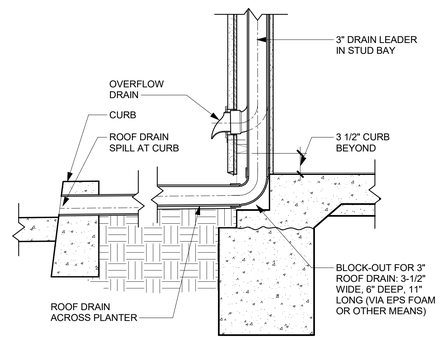
5 SILL @ CORRUGATED PANEL

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



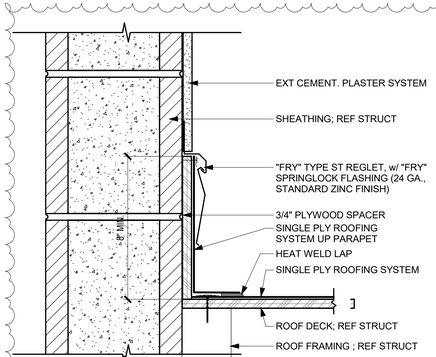
2 SILL @ CEMENT PLASTER/CMU

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



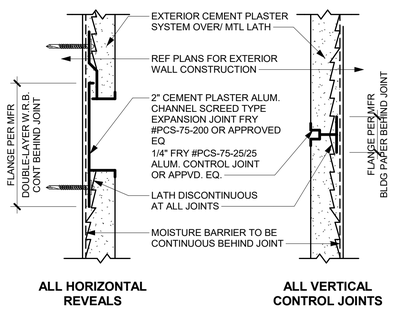
9 ROOF DRAIN AND OVERFLOW DETAIL

SCALE: 1" = 1'-0"



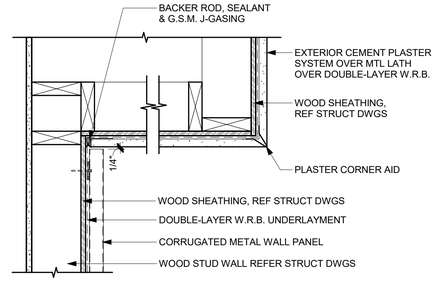
10 REGLET AT LOW ROOF

SCALE: 3" = 1'-0"



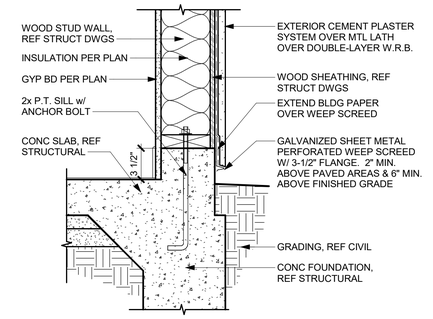
7 CEM PLASTER EXP & CONTROL JTS

SCALE: HALF SIZE



4 CORRUGATED PANEL TO CEM PLAS

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



1 SILL @ CEMENT PLASTER

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

TM-B24-5413|B25-0079

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1		
Inspector_____	5/16/25	RJ	2 IN HOUSE REVISIONS		
Date Completed_____	04/09/26	RJ	9 IN HOUSE REVISIONS		

BENCH MARK

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGBLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

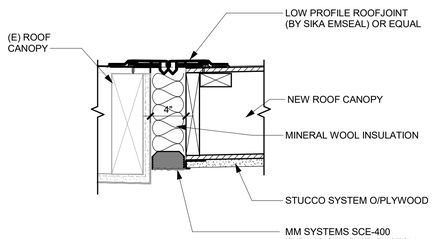
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJDARI, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
EXTERIOR DETAILS

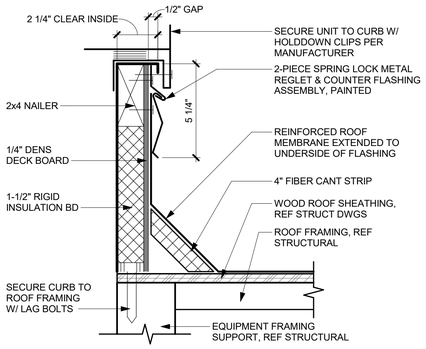
Drawing No. **A-9.0**
Sheet ____ of ____

PRINTED: 6/4/2026



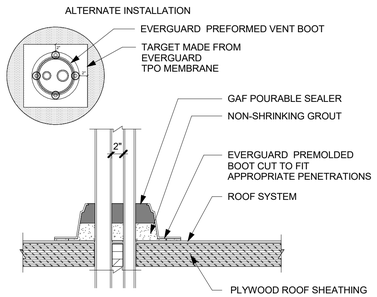
19 CANOPY EDGE

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



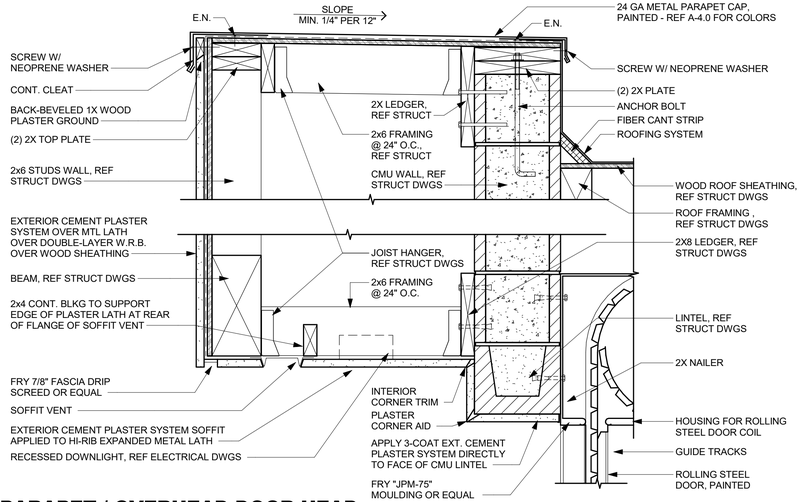
18 MECHANICAL EQUIP. CURB.

SCALE: 3" = 1'-0"



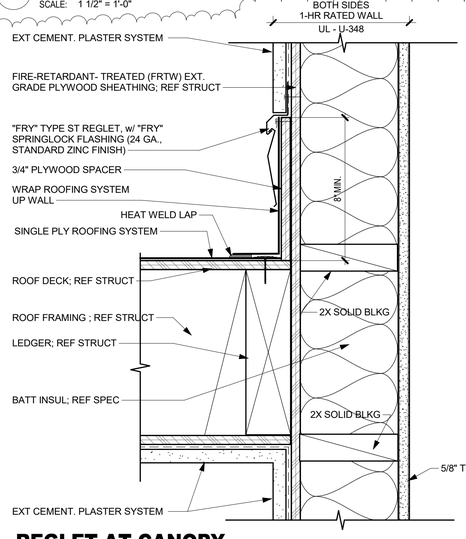
17 ROOF PENETRATION

SCALE: 1" = 1'-0"



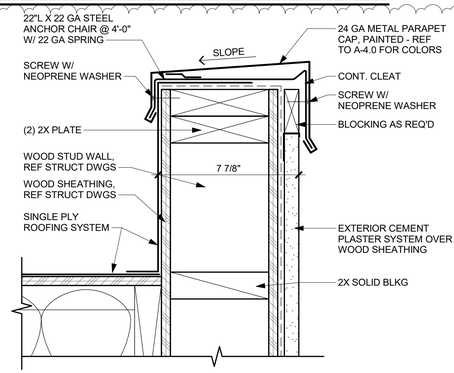
15 PARAPET / OVERHEAD DOOR HEAD

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



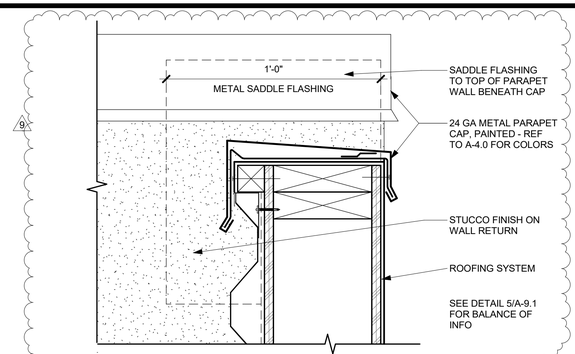
14 REGLET AT CANOPY

SCALE: 3" = 1'-0"



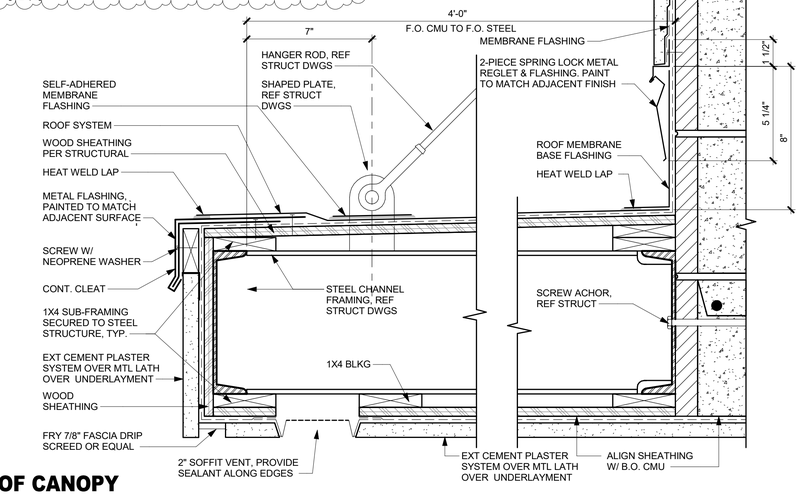
9 PARAPET @ CEMENT PLASTER

SCALE: 3" = 1'-0"



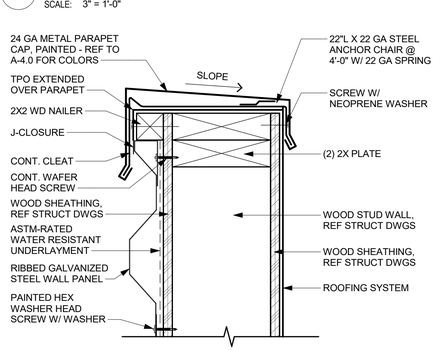
7 FLASHING AT RAISED PARAPET RETURN

SCALE: 3" = 1'-0"



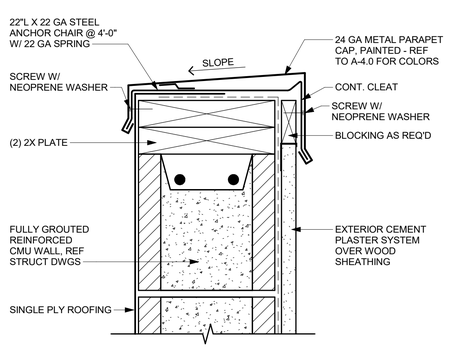
6 ROOF CANOPY

SCALE: 3" = 1'-0"



5 PARAPET @ CORR. PANEL

SCALE: 3" = 1'-0"



1 PARAPET @ CEMENT PLASTER/CMU

SCALE: 3" = 1'-0"

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE
Contractor	5/16/25	RJ	2 IN HOUSE REVISIONS		
Inspector	04/09/26	RJ	9 IN HOUSE REVISIONS		
Date Completed					

BENCH MARK

SCALE: Horizontal: As indicated; Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM ROGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By
	Author	

Plans Prepared Under Supervision Of

_____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASHOEN, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

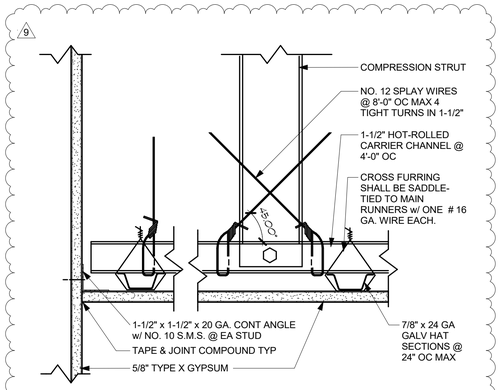
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
EXTERIOR DETAILS

Drawing No. **A-9.1**

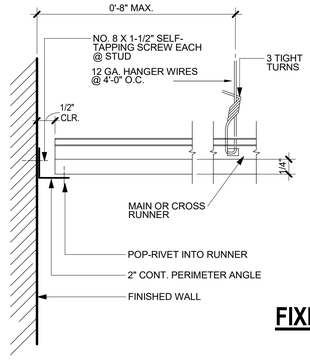
Sheet ____ of ____

PRINTED: 6/4/2026



9 CEILING SUSP GYP. BD. CLG. @ WALL

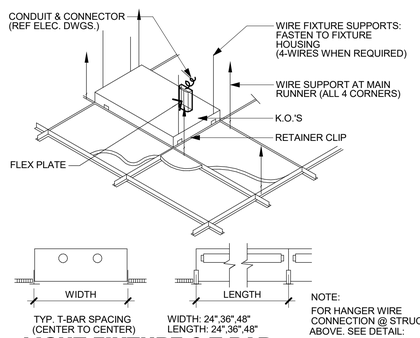
SCALE: 3" = 1'-0"



FIXED

6 CEILING GRID PERIMETER FIXED

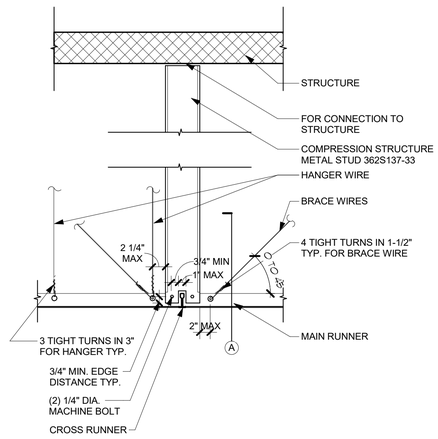
SCALE: NTS

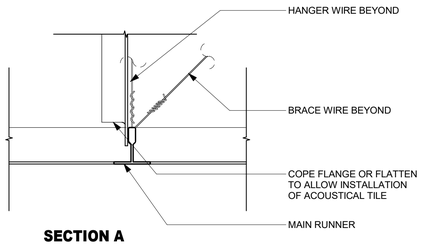


NOTE:
FOR HANGER WIRE CONNECTION @ STRUCT ABOVE. SEE DETAIL:

3 LIGHT FIXTURE @ T-BAR

SCALE: N.T.S.

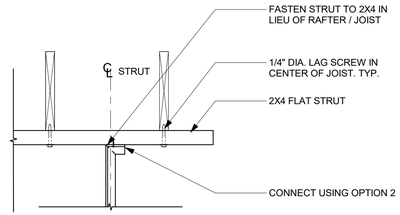




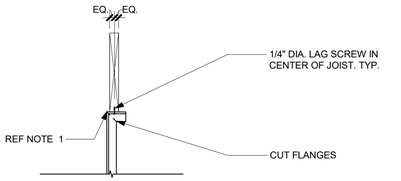
SECTION A

11 SUSPENDED CEILING STRUT DETIAL

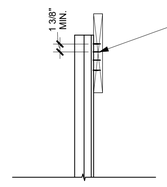
SCALE: 1" = 1'-0"



OPTION 3



OPTION 2

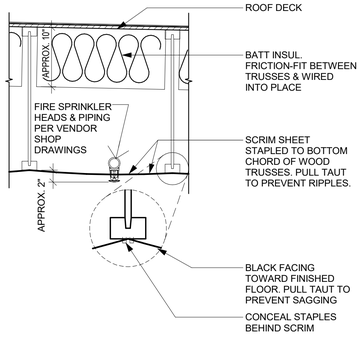


1. WEB OF CHANNEL TO BEAR WITHIN WIDTH OF WOOD.
2. VERTICAL LEG OF MEMBER TO FALL WITHIN THE WIDTH OF THE WOOD MEMBER.

OPTION 1

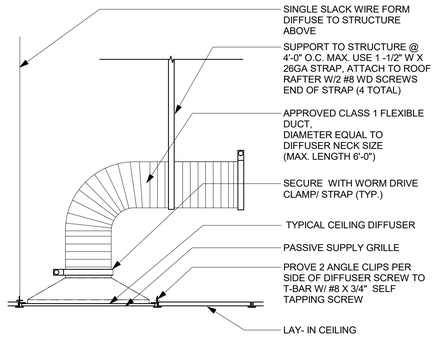
10 STRUT CONNECTION

SCALE: 1" = 1'-0"



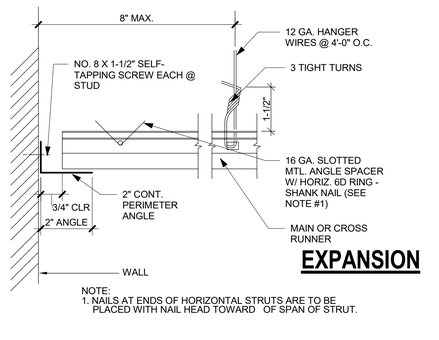
8 BATTS SCRIM COVER DETAIL

SCALE: 1" = 1'-0"



7 PASSIVE SUPPLY GRILLE MOUNTING

SCALE: 1" = 1'-0"



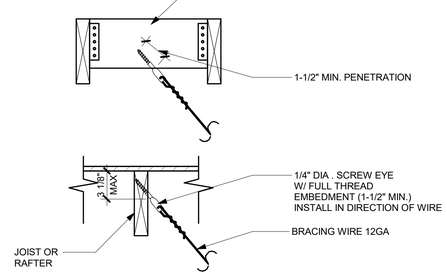
NOTE:
1. NAILS AT ENDS OF HORIZONTAL STRUTS ARE TO BE PLACED WITH NAIL HEAD TOWARD OF SPAN OF STRUT.

EXPANSION

5 CEILING GRID PERIMETER EXPANSION

SCALE: N.T.S

NOTE: HANGER WIRE 12GA FOR ACOUS. TILE CLG. WITH 3 TIGHT TURNS MIN. IN 3"



4 BRACING WIRE CONNECTION

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

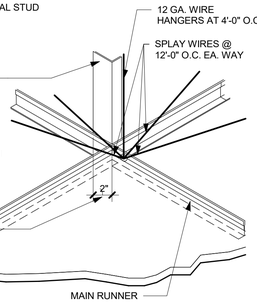
NOTES:

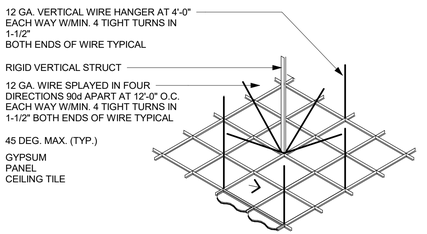
1. VERTICAL STRUT: A STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCT MEMBERS SUPPORTING THE ROOF ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY BRACING WIRES.

2. THESE HORIZONTAL RESTRAINT POINTS SHALL BE PLACED 12" O.C. IN BOTH DIRECTIONS WITH THE FIRST POINT WITHIN 6' FROM EACH WALL. U.B.C. STANDARD 25.2 , SECTION 25.213 FOR LIGHTING FIXTURES.

3. RIGID VERTICAL STRUT MAY BE METAL STUD OR EMT.

4. CEILING WEIGHT NOT TO EXCEED 4 LBS/SQUARE FOOT.





1 SUSPENDED CEILING BRACING SYS.

SCALE: N.T.S.

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-490 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Inspector_____						
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ANSARI, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
CEILING DETAILS

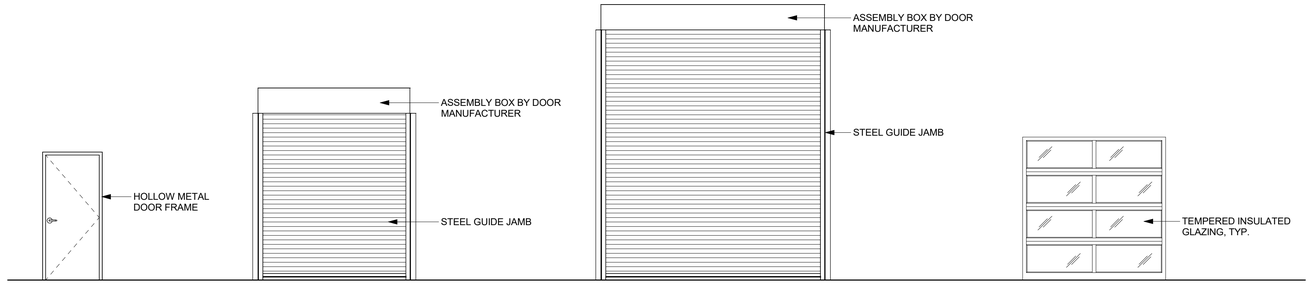
Drawing No. **A-9.2**
Sheet ____ of ____

PRINTED: 5/29/2026

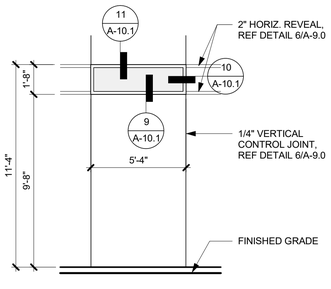
DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR SIZE			DOOR			FRAME					HRDWR. GROUP	FIRE LABEL	PANIC DEVICE	COMMENTS
		WIDTH	HEIGHT	THK	TYPE	MAT'L	FINISH	MAT'L	FINISH	HEAD	JAMB	SILL				
100	GYM	3'-0"	7'-0"	0'-1 3/4"	A	HM	PAINTED	HM	PAINTED	2/A-10.1	2/A-10.1	1/A-10.1	02	45 MIN.	YES	INSULATED CORE
101	GYM	8'-0"	8'-0"	0'-2"	D	AL	ANODIZED	STL	PREFIN	1/A-10.2	4/A-10.2	-	MFG	-	-	FULL VIEW ALUMINUM GLASS SECTIONAL DOOR, PROVIDE MANUAL CHAIN HOIST
102	APARATUS BAY	12'-0"	14'-0"		C	MTL	PAINTED	STL	PREFIN	6/A-9.1	3/A-10.2	-	MFG	-	-	PROVIDE AUTOMATIC GARAGE DOOR OPENER
103	APARATUS BAY	12'-0"	14'-0"		C	MTL	PAINTED	STL	PREFIN	6/A-9.1	3/A-10.2	-	MFG	-	-	PROVIDE AUTOMATIC GARAGE DOOR OPENER
104	STORAGE/SHOP	8'-0"	9'-4"		B	MTL	PAINTED	STL	PREFIN	5/A-10.2	3/A-10.2	-	MFG	-	-	PROVIDE MANUAL CHAIN HOIST
105	APARATUS BAY	3'-0"	7'-0"	0'-1 3/4"	A	HM	PAINTED	HM	PAINTED	4/A-10.1	8/A-10.1	1/A-10.1	02	-	YES	INSULATED CORE
106	APARATUS BAY	3'-0"	7'-0"	0'-1 3/4"	A	HM	PAINTED	HM	PAINTED	4/A-10.1	8/A-10.1	1/A-10.1	02	-	YES	INSULATED CORE
107	STORAGE/SHOP	3'-0"	7'-0"	0'-1 3/4"	A	HM	PAINTED	HM	PAINTED	3/A-10.1	7/A-10.1	-	01	-	-	INSULATED CORE
108	APARATUS BAY	3'-0"	7'-0"	0'-1 3/4"	A	HM	PAINTED	HM	PAINTED	4/A-10.1	8/A-10.1	1/A-10.1	02	-	YES	INSULATED CORE 9
E001	WOMENS RESTROOM	3'-0"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.	-	-	
E002	[E] HALLWAY	3'-0"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.	-	-	
E003	[E] JANITOR	2'-6"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.	-	-	
E004	[E] HALLWAY DOOR	3'-0"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.	-	-	
E101	[E] WATER HEATER RM.	2'-0"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.	-	-	EXISTING DOOR & FRAME RELOCATES TO NEW POSITION
E102	ALL GENDER R.R.	3'-0"	7'-0"	0'-1 3/4"	A	EXIST.	EXIST.	EXIST.	EXIST.	-	-	-	EXIST.3	-	-	EXISTING DOOR & FRAME RELOCATES TO NEW POSITION

DOOR LEGEND

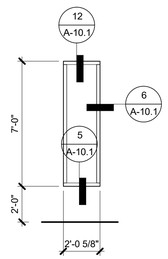


STOREFRONT ELEVATIONS



2 APARATUS BAY STOREFRONT

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



1 GYM STOREFRONT

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

DOOR HARDWARE SETS

HARDWARE GROUP NO. 01
For use on Door #(s):
107
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	L9070T 06A	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4040XP H	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS436/FS438 AS REQUIRED	626	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	THRESHOLD	THRESHOLD AS DETAILED		
1	EA	DOOR SHOE	111AA	AA	ZER

VERIFY KEYWAY REQUIRED

HARDWARE GROUP NO. 02
For use on Door #(s):
100 105 106 108
Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	AX-98-L-06	626	VON
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	FSIC CORE	23-030	626	SCH
1	EA	SURFACE CLOSER	4040XP REG OR PA AS REQ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	FLOOR STOP	FS18S	BLK	IVE
1	EA	GASKETING	429AA-S	AA	ZER
1	EA	DOOR SWEEP	8193AA	AA	ZER
1	EA	THRESHOLD	THRESHOLD AS DETAILED		

VERIFY KEYWAY REQUIRED

9

DOOR ABBREVIATIONS

A/G	ALUMINUM & GLASS
AL	ALUMINUM
ANOD	CLEAR ANODIZED
DBA	DARK BRONZE ANODIZED
GL	GLASS
HM	HOLLOW METAL
LAM	PLASTIC LAMINATE FINISH
LVR	LOUVER
PT	PAINTED FINISH
MFG	PRE-FINISHED BY MANUFACTURER
SCWD	SOLID CORE WOOD
S&V	STAIN & VARNISH
T	TEMPERED SAFETY GLASS

DOOR GENERAL NOTES

1. DOORS, DOORWAYS, AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH CBC SECTION 11B-404 INCLUDING HARDWARE PER SECTION 11B-404.2.7:
   A. LATCHING, OR LOCKING, DOORS IN A PATH OF TRAVEL ARE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, BY PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
   B. IS TO BE CENTERED ≥34" BUT ≤44" ABOVE FLOOR.
2. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2 INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH CBC SECTIONS 11B-302 AND 11B-303.
3. DOOR AND GATE CLOSING SPEED SHALL COMPLY WITH SECTION 11B-404.2.8.
4. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE SHALL BE 5 POUNDS MAXIMUM. PER CBC 11B-404.2.9.
5. SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE PER CBC 11B-404.2.10.
6. DOORS, GATES, AND SIDE LIGHTS ADJACENT TO DOORS OR GATES, CONTAINING ONE OR MORE GLAZING PANELS THAT PERMIT VIEWING THROUGH THE PANELS SHALL HAVE THE BOTTOM OF AT LEAST ONE GLAZED PANEL LOCATED 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR PER CBC 11B-404.2.11.
7. AUTOMATIC DOORS AND AUTOMATIC GATES SHALL COMPLY WITH SECTION 11B-404.3.
8. MEANS OF EGRESS DOORS SHALL MEET THE REQUIREMENTS OF THIS SECTION. DOORS SERVING A MEANS OF EGRESS SYSTEM SHALL MEET THE REQUIREMENTS OF CBC SECTION 1010 AND SECTION 1022.2.
9. LOCKS AND LATCHES SHALL BE PERMITTED TO PREVENT OPERATION OF DOORS WHERE ANY OF THE FOLLOWING EXIST:
   a. PLACES OF DETENTION OR RESTRAINT.
   b. IN BUILDINGS IN OCCUPANCY GROUP A HAVING AN OCCUPANT LOAD OF 300 OR LESS, GROUPS B, F, M AND S, AND IN PLACES OF RELIGIOUS WORSHIP, THE MAIN DOOR OR DOORS ARE PERMITTED TO BE EQUIPPED WITH KEY-OPERATED LOCKING DEVICES FROM THE EGRESS SIDE PROVIDED:
      2.1. THE LOCKING DEVICE IS READILY DISTINGUISH-ABLE AS LOCKED;
      2.2. A READILY VISIBLE DURABLE SIGN IS POSTED ON THE EGRESS SIDE ON OR ADJACENT TO THE DOOR STATING: THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED. THE SIGN SHALL BE IN LETTERS 1 INCH HIGH ON A CONTRASTING BACKGROUND.
10. MANUALLY OPERATED FLUSH BOLTS OR SURFACE BOLTS ARE NOT PERMITTED.
11. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
12. PANIC HARDWARE, WHEN INSTALLED, SHALL BE:
    1. LISTED IN ACCORDANCE WITH UL 305.
    2. FIRE EXIT HARDWARE SHALL BE LISTED IN ACCORDANCE WITH UL 10C AND UL 305.
    3. THE ACTUATING PORTION OF THE RELEASING DEVICE SHALL EXTEND NOT LESS THAN ONE-HALF OF THE DOOR LEAF WIDTH.
    4. THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 15 POUNDS (67 N).
13. EACH GRADE-LEVEL EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORD "EXIT" ON THE INTERIOR (EGRESS) SIDE OF DOOR ON THE WALL ON THE LATCH SIDE OF DOOR OR NEAREST ADJACENT WALL TO THE RIGHT AT 60 " A.F.F. REF A.D.A. SIGN DETAILS ON SHEET T-1.3.
14. EACH ENTRANCE DOOR OF THIS BUILDING SHALL BE IDENTIFIED WITH MIN. ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY ON THE EXTERIOR (ENTRY) SIDE OF DOOR ON THE WALL ON THE LATCH SIDE OF DOOR OR NEAREST ADJACENT WALL TO THE RIGHT AT 60 " A.F.F. REF A.D.A. SIGN DETAILS ON SHEET T-1.3.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1 PLAN CHECK #1			
Inspector_____	04/09/26	RJ	9 IN HOUSE REVISIONS			
Date Completed_____						

SCALE
Horizontal: As indicated
Vertical: As indicated

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGBY C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No._____

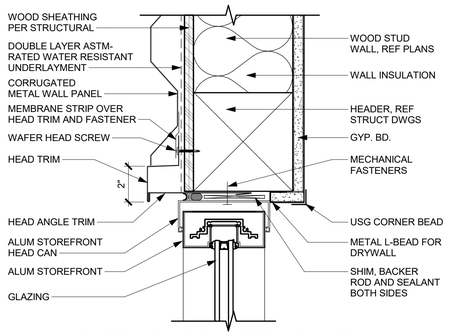
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEN, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
DOOR SCHEDULE AND WINDOWS

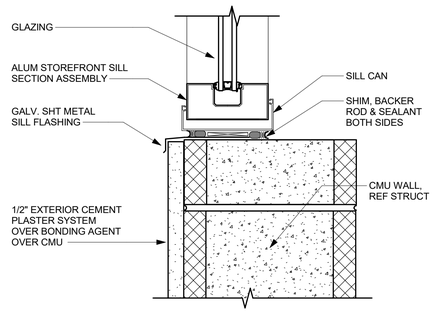
Drawing No. **A-10.0**
Sheet ____ of ____

PRINTED: 5/29/2026



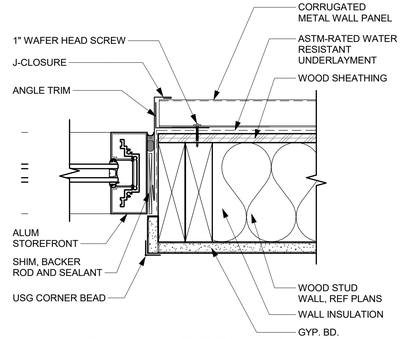
12 ALUM SF HEAD @ CORR. PANEL

SCALE: 3" = 1'-0"



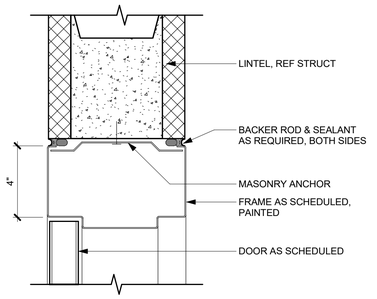
9 ALUM SF SILL @ CMU/STUCCO

SCALE: 3" = 1'-0"



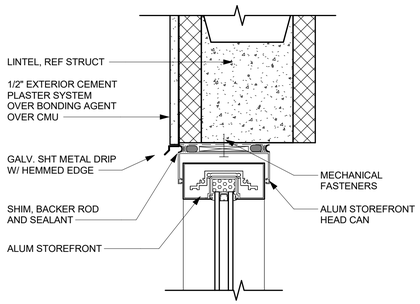
6 ALUM SF JAMB @ CORR. PANEL

SCALE: 3" = 1'-0"



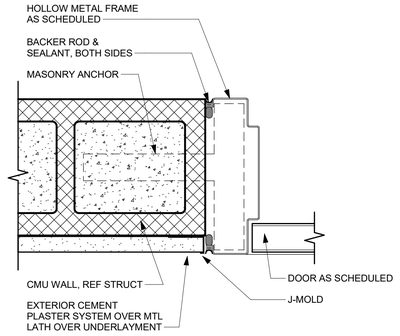
3 HM DOOR HEAD (INT'R CMU)

SCALE: 3" = 1'-0"



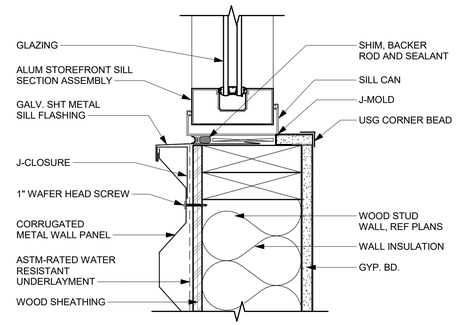
11 ALUM STOREFRONT HEAD @ CMU

SCALE: 3" = 1'-0"



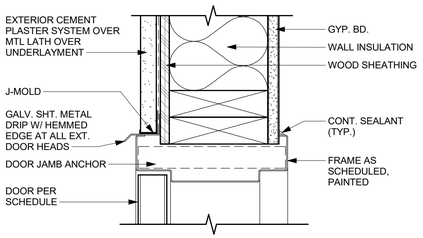
8 HM DOOR JAMB (EXT'R CMU)

SCALE: 3" = 1'-0"



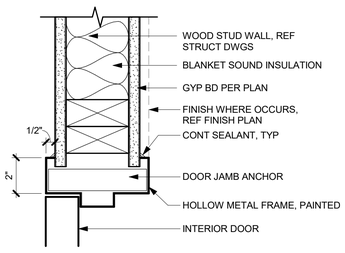
5 ALUM SF SILL @ CORR. PANEL

SCALE: 3" = 1'-0"



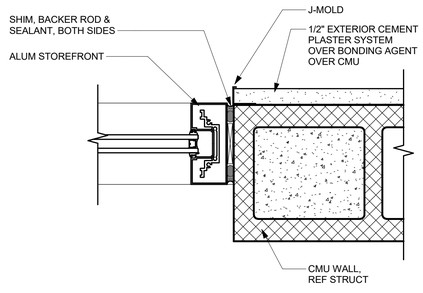
2 HM DOOR HEAD/JAMB (EXTERIOR)

SCALE: 3" = 1'-0"



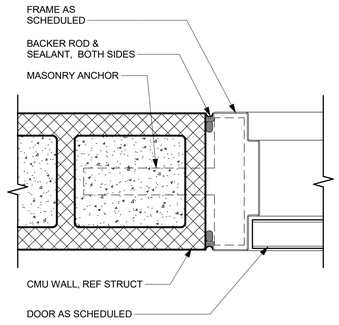
13 HEAD INT

SCALE: 3" = 1'-0"



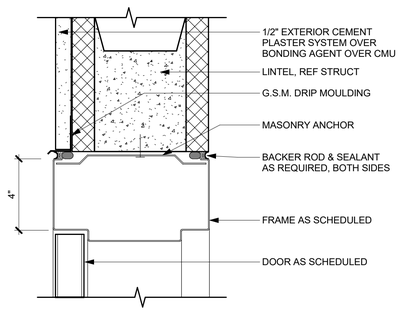
10 ALUM STOREFRONT JAMB @ CMU

SCALE: 3" = 1'-0"



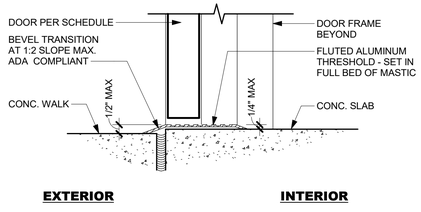
7 HM DOOR JAMB (INT'R CMU)

SCALE: 3" = 1'-0"



4 HM DOOR HEAD/ (EXT'R CMU)

SCALE: 3" = 1'-0"



1 DOOR THRESHOLD (EXTERIOR)

SCALE: 3" = 1'-0"

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	5/16/25	RJ	1	PLAN CHECK #1			
Inspector_____							
Date Completed_____							

SCALE
Horizontal: 3" = 1'-0"
Vertical: 3" = 1'-0"

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No._____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

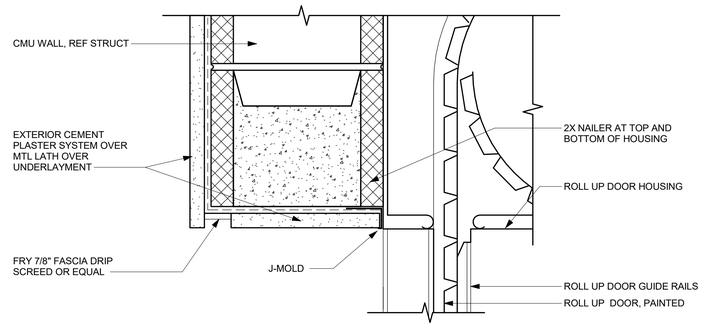
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
DOOR & WINDOW DETAILS

Drawing No. **A-10.1**

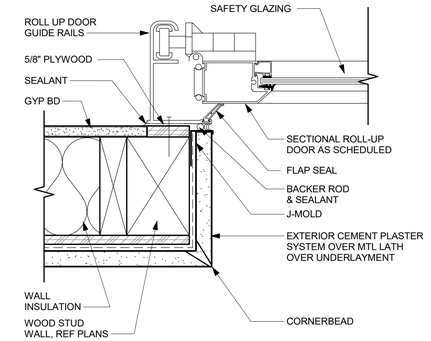
Sheet ____ of ____

PRINTED: 5/29/2026



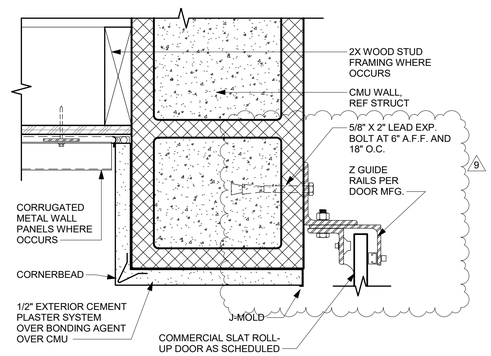
4 ROLL-UP DOOR HEAD

SCALE: 3" = 1'-0"



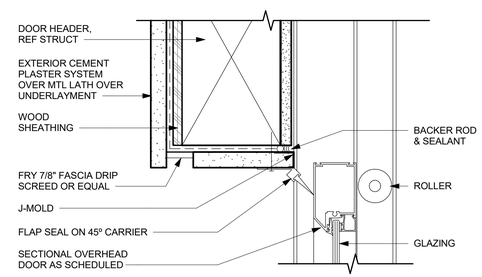
2 OVERHEAD DOOR JAMB

SCALE: 3" = 1'-0"



3 ROLL-UP DOOR JAMB

SCALE: 3" = 1'-0"



1 OVERHEAD DOOR HEAD

SCALE: 3" = 1'-0"

TM-B24-5413|B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

TR DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor	04/09/26	RJ	9 IN HOUSE REVISIONS			
Inspector						
Date Completed						

SCALE
Horizontal 3" = 1'-0"
Vertical 3" = 1'-0"

SEAL: LICENSED ARCHITECT THOMAS WILLIAM RIGGLE C-24877 REN. 8/31/27 STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ANDEJ, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
DOOR & WINDOW DETAILS

Drawing No. **A-10.2**

Sheet ____ of ____

PRINTED: 5/29/2026

DESIGN PARAMETERS

GROUND IMPROVEMENT DESIGN SPECIFICATIONS	
LICENSED DESIGN-BUILD CONTRACTOR	WESTERN GROUND IMPROVEMENT, INC. (OR APPROVED EQUAL)
RECOMMENDED GROUND IMPROVEMENT METHOD	RAMMED AGGREGATE PIERS (OR APPROVED EQUAL)
DESIGN SOIL BEARING CAPACITY*	2,000 PSF MINIMUM
MAXIMUM COMBINED (STATIC + SEISMIC) SETTLEMENT*	1 3/4"
MAXIMUM COMBINED (STATIC + SEISMIC) DIFFERENTIAL*	1" OVER 40'

* VALUES TO BE CONFIRMED BY THE GROUND IMPROVEMENT DESIGNER AFTER INSTALLATION

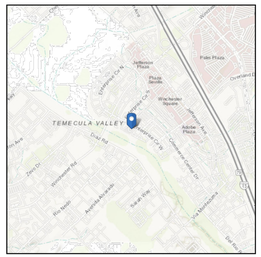
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

ASCE Hazards Report

Address:
27415 Enterprise Cir W
Temecula, California
92590

Standard: ASCE/SEI 7-16
Risk Category: IV
Soil Class: E - Soft Clay Soil

Latitude: 33.515663
Longitude: -117.167138
Elevation: 1015.2098212137473 ft (NAVD 88)



Wind

Results:

Wind Speed	107 Vmph
10-year MRI	67 Vmph
25-year MRI	72 Vmph
50-year MRI	77 Vmph
100-year MRI	82 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1D and Figs. CC.2-1–CC.2-4, and Section 26.5.2
Date Accessed: Thu Feb 13 2025

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 1.6% probability of exceedance in 50 years (annual exceedance probability = 0.00033, MRI = 3,000 years).

Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

Seismic

Site Soil Class: E - Soft Clay Soil
Results:

S_S :	1.582	S_{D1} :	N/A
S_1 :	0.59	T_L :	8
F_a :	N/A	PGA :	0.707
F_v :	N/A	PGA_M :	0.778
S_{MS} :	N/A	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1.5
S_{DS} :	N/A	C_v :	N/A

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.
Data Accessed: Thu Feb 13 2025
Date Source: USGS Seismic Design Maps

SHEET INDEX

GENERAL NOTES

SCS STRUCTURAL COVER SHEET
SN1 STRUCTURAL NOTES
SN2 STRUCTURAL NOTES
SN3 STRUCTURAL NOTES

PLANS

S1 FOUNDATION PLAN
S2 ROOF FRAMING PLAN
S3 ROOF DIAPHRAGM PLAN
S4 GYM FOUNDATION PLAN
S5 GYM ROOF FRAMING PLAN

STRUCTURAL DETAILS

SD0 GENERAL FOUNDATION DETAILS
SD1 FOUNDATION DETAILS
SD1.1 TRASH ENCLOSURE PLANS
SD1.2 TRASH ENCLOSURE DETAILS
SD2 GENERAL FRAMING DETAILS
SD2.1 GENERAL FRAMING DETAILS
SD2.2 GENERAL MASONRY DETAILS
SD4 ROOF FRAMING DETAILS
SD4.1 POLE FOOTING DETAILS

PROJECT DESIGN CRITERIA	
BUILDING CODE:	2022 CBC
LOCATION (LATITUDE / LONGITUDE):	33.515638 °N / -117.167085 °W
GEOTECHNICAL PARAMETERS:	
SOILS ENGINEER:	GEOCON WEST, INC.
REPORT NUMBER:	T2652-22-20
DATE:	FEBRUARY 20,2024
ALLOWABLE SOIL BEARING PRESSURE:	2000 PSF
ALLOWABLE PASSIVE PRESSURE:	250 PCF
EXPANSION POTENTIAL:	LOW TO VERY LOW (EI OF 50 OR LESS)
PLASTICITY INDEX:	NOT PROVIDED
LIQUEFACTION POTENTIAL:	PRESENT - SEE GEOTECH REPORT**
TOTAL SETTLEMENT:	1 3/4" (STATIC + SEISMIC)
DIFFERENTIAL SETTLEMENT POTENTIAL:	1" OVER 40'-0"
CORROSIVITY:	LOW
SULFATE CONTENT:	NEGLIGIBLE
CHLORIDE CONTENT:	50 PPM
SEISMIC DESIGN PARAMETERS:	
RISK CATEGORY:	IV
SITE CLASS:	E
SHORT PERIOD SPECTRAL ACCELERATION, S_s:	1.582
1s PERIOD SPECTRAL ACCELERATION, S_1:	.59
SPECTRAL RESPONSE COEFFICIENT, S_{D1}:	.79
SHORT PERIOD SPECTRAL RESPONSE, S_{DS}:	1.266
SITE COEFFICIENT, F_a:	1.2
SITE COEFFICIENT, F_v:	2.02
SEISMIC DESIGN CATEGORY:	D
SEISMIC IMPORTANCE FACTOR, I_e:	1.5
RESPONSE MODIFICATION, R & SEISMIC FORCE RESISTING SYSTEM:	6.5 - LIGHT FRAMED SHEAR WALLS 5.0 - SPECIAL REINFORCED CONCRETE SHEAR WALLS
DESIGN BASE SHEAR:	.379pW
SEISMIC RESPONSE COEFFICIENT, C_s:	
DESIGN PROCEDURE:	EQUIVALENT LATERAL FORCE
REDUNDANCY FACTOR, ρ:	1.3
SYSTEM OVERSTRENGTH FACTOR, Ω:	2.5
DEFLECTION AMPLIFICATION FACTOR, C_d:	4.0
HORIZONTAL STRUCTURAL IRREGULARITIES:	NONE
VERTICAL STRUCTURAL IRREGULARITIES:	NONE
WIND DESIGN PARAMETERS:	
RISK CATEGORY:	IV
WIND EXPOSURE CATEGORY:	C
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST), V_{ULT}:	95
NOMINAL DESIGN WIND SPEED (3-SECOND GUST), V_{ASD}:	74 MPH
INTERNAL PRESSURE COEFFICIENT, GC_{pi}:	±0.18

**REMEDIAL SOIL PREPARATION REQUIRED.

GRAVITY DESIGN PARAMETERS: (PSF, SERVICE LOADS)					
	DEAD	ROOF LIVE	SNOW	LIVE	TOTAL
ROOF:	16	20	-	-	36
WOOD EXTERIOR WALL:	15	-	-	-	15
CMU WALL:	96	-	-	-	96

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	BY	DATE	BENCH MARK	SCALE
Contractor _____								Horizontal
Inspector _____								Vertical
Date Completed _____								

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____
R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN LAJEVARDI, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
STRUCTURAL COVER SHEET

Drawing No. SCS
Sheet ____ of ____

PROPRIETARY ANCHORAGES AND FASTENERS

1. ANCHORAGES:
   1.A. DRILL AND EPOXY ANCHORS: SIMPSON SET-XP EPOXY ADHESIVE SYSTEM USING THREADED STEEL RODS CONFORMING TO ASTM-F1554, GRADE 36, OR REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GRADE 60. COMPLYING WITH ICC ES ESR 2508. INSTALLERS TO BE CERTIFIED BY MANUFACTURER.
   1.B. MECHANICAL ANCHORS:
   1.B.1. HILTI KWIK BOLT-III CARBON STEEL EXPANSION ANCHORS COMPLYING WITH ICC ESR-1385.
   1.B.2. SIMPSON TITEN HD ANCHORS STEEL SCREW ANCHORS COMPLYING WITH ICC ESR-2713.
   1.B.2.1. TITEN HD ANCHORS SHALL BE STAINLESS STEEL IN EXPOSED WET ENVIROMENTS.
   1.C. WELDED SHEAR STUDS: NELSON 3SL FLUX FILLED, HEADED STUD ANCHORS, 60,000 PSI MINIMUM ULTIMATE TENSILE STRENGTH, AUTOMATICALLY END WELDED IN FIELD CONFIRMING TO ASTM A108 AND COMPLYING WITH ICC ES REPORT NO. 2614.
   1.D. WELDED DEFORMED ANCHORS: NELSON D2L, COLD ROLLED, DEFORMED STEEL REINFORCING BARS CONFORMING TO ASTM A496 AND COMPLYING WITH ICC ES REPORT NO. 5217.

2. FASTENERS:
   2.A. POWDER ACTUATED FASTENERS: HILTI XCP, COMPLYING WITH CURRENT ICC ES REPORT NO. 2379. PROVIDE APPROPRIATE WASHER BETWEEN FASTENER HEAD AND LIGHT GAUGE METAL OR WOOD SURFACE.
   2.A.1. POWER-DRIVEN FASTENERS SHALL NOT BE USED TO ANCHOR SILL PLATES EXCEPT AT INTERIOR NON-BEARING WALL NOT DESIGN AS SHEAR WALLS.
   2.B. SELF-DRILLING METAL SCREWS (INDICATED "SCREWS" ON DRAWINGS): MINIMUM 0.292-INCH HEAD DIAMETER SELF-DRILLING/SELF-TAPPING STEEL SCREWS COMPLYING WITH ICC ES REPORT. MINIMUM YIELD STRESS, FY=33 KSI.
   2.A. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. STAPLES SHALL BE OF STAINLESS STEEL. FASTENERS OTHER THAN NAILS, STABLES, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM.
   2.A.1. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATED PRESERVATIVE WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.

3. INSTALLATION: SEE MANUFACTURERS WRITTEN INSTRUCTIONS AND REFERENCED ICC ES REPORT.

4. MATERIALS NOT TO BE PENETRATED BY FASTENERS OR ANCHORAGES: POST-TENSIONED CONCRETE AND PRECAST, PRESTRESSED CONCRETE UNLESS SPECIFICALLY DETAILED HEREIN OR AS ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). WHEN INSTALLATION IS PERMITTED, LOCATE PRESTRESSING AND POST-TENSIONED TENDONS ACCURATELY PRIOR TO INSTALLATION.

5. DRILLING HOLES IN EXISTING CONCRETE OR MASONRY FOR ANCHORAGES: USE NON-PNEUMATIC, ROTARY HAMMER TOOLS WITH ANSI COMPLIANT NON-RESAW CUTTING DRILL BITS TO DRILL HOLES OF PROPER TOLERANCES. LOCATE EXISTING REBAR INCLUDING PRESTRESSING AND POST-TENSIONING TENDONS USING NON-HAZARDOUS, NONDESTRUCTIVE 1 METHODS WITH ACCURATE LOCATION TOLERANCES (PLUS OR MINUS INCH PRIOR TO DRILLING 4 HOLES TO AVOID CUTTING OR DAMAGING. HOLES SHALL BE THOROUGHLY CLEANED PER MANUFACTURERS WRITTEN RECOMMENDATIONS PRIOR TO INSTALLATION OF ANCHORAGES.

6. DELETERIOUS MATERIALS: KEEP ANCHORAGES, INCLUDING HOLES FOR DRILL AND EPOXY ANCHORS AND MECHANICAL ANCHORS, FREE OF DUST, GREASE, AND OTHER MATERIALS THAT IMPAIR BOND.

7. TESTING FOR DRILL AND EPOXY ANCHORS:
   6.A. SPECIAL INSPECTION: SPECIAL INSPECTOR WILL PERFORM CONTINUOUS SPECIAL INSPECTION DURING INSTALLATION.

7. EXTERIOR PROPRIETARY ANCHORS & FASTENERS:
   7.A. FOR EXTERIOR APPLICATIONS & CORROSIVE ENVIRONMENTS, ALL ANCHORS SHOULD BE GALVANIZED OR STAINLESS STEEL. CONTRACTOR TO VERIFY AND PROVIDE GALVANIZED OR STAINLESS STEEL ANCHORAGE PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO IMMEDIATELY NOTIFY THE STRUCTURAL EOR OF ANY DISCREPANCIES, PRIOR TO THE START OF CONSTRUCTION
   7.B. EXPANSION ANCHOR BOLTS AND POST BASES SHALL BE GALVANIZED AND SHALL HAVE AT LEAST TWO GALVANIZED NUTS ABOVE THE BASE PLATE.

EARTHWORK AND FOUNDATIONS

1. GEOTECHNICAL REPORT: PERFORM SOILS WORK COMPLYING WITH FOUNDATION DESIGN BASED ON RECOMMENDATIONS IN SOILS REPORT. SEE STRUCTURAL COVER SHEET FOR SOILS REPORT NUMBER AND DATE.

2. ALLOWABLE FOUNDATION DESIGN VALUES PER GEOTECHNICAL REPORT: VALUES BELOW MAY BE INCREASED 33 PERCENT FOR TRANSIENT LOADING.
   A. BEARING CAPACITY: SEE PROJECT DESIGN CRITERIA
   B. PASSIVE LATERAL BEARING PRESSURE: SEE PROJECT DESIGN CRITERIA
   C. COEFFICIENT OF FRICTION: SEE PROJECT DESIGN CRITERIA

3. GRADING, EXCAVATIONS, BACKFILL AND COMPACTION OF BACKFILL: COMPLY WITH GEOTECHNICAL REPORT AND REQUIREMENTS OF GOVERNING CODE AUTHORITY AND PERFORMED ONLY UNDER CONTINUOUS SPECIAL INSPECTION OF GEOTECHNICAL ENGINEER.

4. PREPARATION OF SOIL UNDER BUILDING PAD: SEE GEOTECHNICAL REPORT FOR OVER-EXCAVATION OF EXISTING SOIL, GROUND IMPROVEMENT REQUIREMENTS, AND INSTALLATION OF PROPERLY COMPACTED BACKFILL.

5. FOUNDATION EXCAVATIONS: FOUNDATIONS ARE TO BEAR ON FIRM EXISTING SOIL OR APPROVED COMPACTED FILL AS INDICATED IN GEOTECHNICAL REPORT. EXCAVATIONS ARE TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL AND FORMWORK. ENSURE EXCAVATIONS ARE CLEANS, DRY AND FREE OF DEBRIS OR LOOSE SOIL. EXCAVATION BOTTOMS ARE TO BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL. SLOPE SIDES OF EXCAVATION NOT LESS THAN MINIMUM SLOPE INDICATED IN GEOTECHNICAL REPORT. CAST CONCRETE DIRECTLY AGAINST EXCAVATED SURFACES.

6. BACKFILLING OF RETAINING WALLS: PLACE AFTER COMPLETION AND INSPECTION OF WATERPROOFING. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL OPERATIONS UNLESS ADEQUATELY BRACED, DO NOT PLACE BACKFILL BEHIND BUILDING STRUCTURE RETAINING WALLS (EXCLUDING SITE RETAINING WALLS) UNTIL CONCRETE AT ELEVATED FLOOR LEVELS ADJACENT TO WALLS ARE COMPLETELY POURED (IN AREA) AND HAVE CURED FOR AT LEAST 7 DAYS.

7. WATER EXPOSURE AT BUILDING PERIMETER FOOTINGS: AT AREAS WHERE SIDEWALKS OR PAVING DO NOT IMMEDIATELY ADJOIN STRUCTURE, PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE AT BUILDING PERIMETER. LANDSCAPE IRRIGATION IS NOT PERMITTED WITHIN FIVE FEET OF BUILDING PERIMETER FOOTINGS EXCEPT WHEN ENCLOSED IN PROTECTED PLANTERS WITH DIRECT DRAINAGE AWAY FROM STRUCTURE OR WHICH COMPLIES WITH APPLICABLE CODE. DISCHARGE FROM DOWN SPOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED ONTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER. REFER TO GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENTS.

CONCRETE EXPOSURE REQUIREMENTS

ACI 318-14 TABLE 19.3.1.1 - EXPOSURE CATEGORIES AND CLASSES

CATEGORY	CLASS	CONDITION
F FREEZING AND THAWING	F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES
	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER
	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER
	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS
		WATER SOLUBLE SULFATE (SO_4^{2-}) IN SOIL, PERCENT BY WEIGHT — DISSOLVED SULFATE (SO_4^{2-}) IN WATER, PPM
S SULFATE	S0	$SO_4^{2-} < 0.10$ — $SO_4^{2-} < 150$
	S1	$0.10 \le SO_4^{2-} < 0.20$ — $150 \le SO_4^{2-} < 1500$ OR SEAWATER
	S2	$0.20 \le SO_4^{2-} \le 2.0$ — $1500 \le SO_4^{2-} \le 10,000$
	S3	$SO_4^{2-} > 2.00$ — $SO_4^{2-} > 10,000$
W IN CONTACT WITH WATER	W0	CONCRETE DRY IN SERVICE CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED
	W1	CONCRETE IN CONTACT WITH WATER AND LOW PERMEABILITY IS NOT REQUIRED
C CORROSION PROTECTION OF REINFORCEMENT	C0	CONCRETE DRY OR PROTECTED FROM MOISTURE
	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO EXTERNAL SOURCES OF CHLORIDES
	C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES

ACI 318-14 TABLE 19.3.2.1 - REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS

EXPOSURE CLASS	MAX W/CM	MIN f'c	ADDITIONAL MINIMUM REQUIREMENTS			
			AIR CONTENT			LIMITS ON CEMENTITIOUS MATERIALS
F0	N/A	2500	N/A			N/A
F1	0.55	3500	PER TABLE 19.3.3.1			N/A
F2	0.45	4500	PER TABLE 19.3.3.1			N/A
F3	0.40 [a]	5000 [a]	PER TABLE 19.3.3.1			26.4.2.2(b)
			CEMENTITIOUS MATERIALS - TYPES			CALCIUM CHLORIDE ADMIXTURE
			ASTM C150	ASTM C595	ASTM C1157	
S0	N/A	2500	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO TYPE RESTRICTION	NO RESTRICTION
S1	0.50	4000	II [a,b]	TYPES IP, IS, OR IT WITH (MS) DESIGNATION	MS	NO RESTRICTION
S2	0.45	4500	V [b]	TYPES IP, IS, OR IT WITH (HS) DESIGNATION	HS	NOT PERMITTED
S3	0.45	4500	V PLUS POZZOLAN OR SLAG CEMENT [b]	TYPES IP, IS, OR IT WITH (HS) DESIGNATION PLUS POZZOLAN OR SLAG CEMENT [b]	HS PLUS POZZOLAN OR SLAG CEMENT [b]	NOT PERMITTED
W0	N/A	2500	NONE			
W1	0.50	4000	NONE			
			MAXIMUM WATER SOLUBLE CHLORIDE ION (CL) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT [c]		ADDITIONAL PROVISIONS	
			NON-PRESTRESSED-ISSUED CONCRETE	PRESTRESSED CONCRETE		
C0	N/A	2500	1.00	0.06	NONE	
C1	N/A	2500	0.30	0.06		
C2	0.40	5000	0.15	0.06	CONCRETE COVER [d]	

1. THE MAXIMUM W/CM LIMITS IN TABLE 19.3.2.1 DO NOT APPLY TO LIGHTWEIGHT CONCRETE.
2. FOR PLAIN CONCRETE, THE MAXIMUM W/CM SHALL BE 0.45 AND THE MINIMUM fc SHALL BE 4,500 PSI.
3. ALTERNATIVE COMBINATIONS OF CEMENTITIOUS MATERIALS TO THOSE LISTED IN TABLE 19.3.2.1 ARE PERMITTED WHEN TESTED FOR SULFATE RESISTANCE AND MEETING THE CRITERIA IN 26.4.2.2(c).
4. FOR SEAWATER EXPOSURE, OTHER TYPES OF PORTLAND CEMENTS WITH TRI-CALCIUM ALUMINATE (C_3A) CONTENTS UP TO 10 PERCENT ARE PERMITTED IF THE W/CM DOES NOT EXCEED 0.40.
5. OTHER AVAILABLE TYPES OF CEMENT SUCH AS TYPE I OR TYPE III ARE PERMITTED IN EXPOSURE CLASSES S1 OR S2 IF THE C_3A CONTENTS ARE LESS THAN 8 PERCENT FOR EXPOSURE CLASS S1 OR LESS THAN 5 PERCENT FOR EXPOSURE CLASS S2.
6. THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE WHEN USED IN CONCRETE CONTAINING TYPE V CEMENT. ALTERNATIVELY, THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT TESTED IN ACCORDANCE WITH ASTM C1012 AND MEETING THE CRITERIA IN 26.4.2.2(c).
7. WATER-SOLUBLE CHLORIDE ION CONTENT THAT IS CONTRIBUTED FROM THE INGREDIENTS INCLUDING WATER, AGGREGATES, CEMENTITIOUS MATERIALS, AND ADMIXTURES SHALL BE DETERMINED ON THE CONCRETE MIXTURE BY ASTM C1218 AT AGE BETWEEN 28 AND 42 DAYS.
8. CONCRETE COVER SHALL BE IN ACCORDANCE WITH 20.6.

CONCRETE REQUIREMENTS

SULFATE EXPOSURE (EXPOSURE CLASS)	WATER SOLUBLE SULFATE (SO4) IN SOIL, PERCENTAGE BY WEIGHT	SULFATE (SO4) IN WATER, PPM	CEMENT TYPE	MAX W/C RATIO	MIN CONCRETE STRENGTH, f'c
NEGLIGIBLE (S0)	0.00-0.10	0-150	II OR V	0.65	3,000
MODERATE (S1)	0.10-0.20	150-1,500	II OR V	0.50	4,000
SEVERE (S3)	0.20-2.00	1,500-1,0000	V	0.45	4,500
VERY SEVERE (S4)	OVER 2.00	OVER 10,000	V PLUS POZZOLAN[2]	0.45	4,500

NOTES:
1. A LOWER W/C RATIO OR HIGHER STRENGTH MAY BE REQUIRED FOR LOW PERMEABILITY OR FOR PROTECTION AGAINST CORROSION OF EMBEDDED ITEMS OR FREEZING AND THAWING PER ACI 318 TABLE 19.3.2.1.
2. THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE.
3. CONCRETE EXPOSURE CLASSES FOR THE CONCRETE STRENGTHS NOTED ABOVE ARE PERMITTED TO BE F0, W0, C0, & C1. IF ANY OTHER EXPOSURE CLASSES ARE PRESENT, THE MIN CONCRETE STRENGTH SHALL BE 5,000 PSI AND THE MAX W/C RATIO SHALL BE 0.40.

CONCRETE

1. CONCRETE COMPRESSIVE STRENGTH: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS SHOWN IN THE TABLE 2 BELOW AT 28 DAYS, U.N.O. ON PLANS. SEE ALSO SULFATE CONTENT NOTES.

2. AGGREGATES IN CONCRETE: SHALL BE NATURAL SAND AND ROCK (150 LB/CU. FT) CONFORMING TO ASTM C33. AGGREGATE SHALL HAVE PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04% PER ASTM C-157. DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT WRITTEN CONSENT OF ENGINEER.

3. CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150. CEMENT SHALL BE TYPE II OR AS REQUIRED TO SATISFY SITE SOIL CONDITIONS. REFER TO TABLE 4 FOR CONCRETE CEMENT REQUIREMENTS ON SOIL CONTAINING SULFATE. REFER TO TABLE 2 FOR MAXIMUM WATER TO CEMENT RATIO.

CONCRETE STRENGTH

CONDITION	STRENGTH, f'c	WATER / CEMENT RATIO	MAX. SLUMP
SLAB ON GRADE	4,500 PSI	.45	5"
FOOTING & GRADE BM	4,500 PSI	.45	5"

4. REBAR CLEAR COVER IN CONCRETE: THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:

REBAR CLEAR COVER FOR CAST-IN-PLACE CONCRETE MEMBERS

CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER
SLAB ON GRADE	ALL	ALL	CENTER OF SLAB OR 2" MIN
CONCRETE AGAINST & PERMANENTLY IN CONTACT WITH GROUND	ALL	ALL	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	ALL	No. 6 THROUGH No. 18 BARS	2"
		No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	SLABS, JOISTS, AND WALLS	No. 14 AND No. 18 BARS	1-1/2"
		No. 11 BAR AND SMALLER	¾"
	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1-1/2"

5. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.

6. CURING: CONCRETE SHALL BE MAINTAINED AT IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GRADE, APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING. ONLY IF APPROVED BY THE ENGINEER OR ARCHITECT.

7. INSPECTIONS, TESTING & QUALITY ASSURANCE: REFER TO STRUCTURAL NOTE SHEETS FOR DEPUTY SPECIAL INSPECTION, TESTING & STRUCTURAL OBSERVATION REQUIREMENTS. A MINIMUM OF ONE COMPRESSION TEST AT 7 DAYS AND 2 TESTS AT 28 DAYS FOR ALL CONCRETE SAMPLES. TAKE TEST AT A FREQUENCY OF ONCE EVERY 150 CU. YDS OR 5,000 SQ. FT MINIMUM.

8. ANCHOR BOLTS, DOWELS, INSERTS: SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.

9. CONSTRUCTION AND POUR JOINTS: LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO POURING CONCRETE.

10. FLY ASH: SHALL NOT BE USED IN CONCRETE.

11. FORMWORK: FORMWORK TOLERANCE SHALL IN ACCORDANCE WITH THE C.B.C. AND A.C.I. STANDARDS.

12. HOT AND COLD WEATHER CONCRETING:
   A. HOT WEATHER CONCRETING: WHEN AIR TEMPERATURE RISES ABOVE 80° F AND HUMIDITY FALLS BELOW 25, THE CONTRACTOR SHALL FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305 5-77. CONTRACTOR SHALL BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR.
   B. COLD WEATHER CONCRETING: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT, FORMS FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO CONTACT SHALL BE FREE FROM FROST. FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE USED. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI 306 R-78. (LATEST EDITION)

13. PIPES IN CONCRETE: PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN THE STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.

14. EXPOSED CORNERS: PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS.

15. ARCHITECTURAL DETAILS: REFER TO ARCHITECTURAL DRAWINGS FOR REVEALS, AREAS OF TEXTURED CONCRETE OR SPECIAL FINISHES, ITEMS REQUIRED TO BE CAST INTO THE CONCRETE, CURBS AND SLAB DEPRESSIONS.

16. DRYPACK OR GROUT: SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

GENERAL NOTES

1. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IN CASE OF DISCREPANCIES.

2. DESIGN INTENT: CONTRACT DOCUMENTS INDICATE DESIGN INTENT FORE STRUCTURE IN ITS COMPLETED STATE. THEY DO NOT INDICATE METHOD OF CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF DESIGN INTENT REQUIRES FURTHER CLARIFICATION.

3. DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS TO APPROVED STRUCTURAL DRAWINGS: MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER) AND APPROVED BY GOVERNING CODE AUTHORITY. NO DEVIATION, MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.

GENERAL NOTES (CONTINUOUS)

4. **PROCEDURES OF CONSTRUCTION: CONTRACTOR IS RESPONSIBLE FOR PROCEDURES** OF CONSTRUCTION COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. SITE VISITS (INCLUDING STRUCTURAL OBSERVATION) BY ARCHITECT (STRUCTURAL ENGINEER) DO NOT CONSTITUTE SUPERVISIONS OF METHODS OF CONSTRUCTION.
   A. PROTECTION OF UTILITIES: LOCATE EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN ON CONTRACT DOCUMENTS, AND PROTECT THEM FROM DAMAGE. CONTRACTOR BEARS EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES IN CONJUNCTION WITH EXECUTION OF WORK.
   B. EXCAVATIONS: PROTECT STRUCTURE, ADJACENT STRUCTURES, ADJACENT PROPERTIES, STREETS, AND UTILITIES DURING EXCAVATION UTILIZING LAGGING, SHORING, UNDERPINNING AT SIDES AND RELATED PROCEDURES AS MAY BE REQUIRED. PROVIDE NECESSARY SUPPORTS FOR SOIL EXCAVATIONS. CONTRACTOR AND AFFECTED TRADES SHALL REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
   C. PROTECTION OF STRUCTURE: PROVIDE NECESSARY MEASURES TO PROTECT STRUCTURE DURING EXECUTION OF WORK.
   D. CONTRACTOR PROPOSED REVISIONS: WHERE A REVISION OF STRUCTURAL DESIGN OR CONNECTION IS PROPOSED BY CONTRACTOR TO ACCOMMODATE CONSTRUCTION TOLERANCES, CONSTRUCTION SEQUENCE AND/OR DIMENSION MODIFICATIONS, CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN STATE OF CALIFORNIA TO PERFORM DESIGN. SUBMIT STAMPED AND SIGNED DESIGN DRAWINGS AND CALCULATIONS TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND THE GOVERNING CODE AUTHORITY FOR APPROVAL.
   E. ERECTION PLANS: DETERMINE PHASES OF WORK REQUIRING ERECTION PLANS ACCORDING TO APPLICABLE SAFETY REGULATIONS. MAINTAIN CERTIFIED COPIES OF ERECTION PLANS AT SITE DURING CONSTRUCTION.
   F. SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS: DESIGN AND ERECT SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH AND AS REQUIRED FOR SAFE ERECTION. ENSURE FLOOR, ROOF, AND WALL MEMBERS ARE SECURELY SHORED AND BRACED DURING CONSTRUCTION. PROVIDE SHORING AT ELEVATED BEAMS AND SLABS SUPPORTING CONCRETE OR MASONRY WALLS DURING AND AFTER WALL POUR UNTIL WALL ATTAINS DESIGN STRENGTH.
   G. TEMPORARY LOADING: ENSURE CONSTRUCTION LOADS DO NOT EXCEED INDICATED DESIGN LIVE LOAD VALUES. NOTIFY AFFECTED SUB-CONTRACTOR TRADES OF THESE DESIGN LOAD LIMITS.
   H. FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL: ENSURE STRESSES OCCURRING DURING FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL ARE TEMPORARY AND ARE LESS THAN DESIGN AND ALLOWABLE STRESS CAPACITIES OF INDIVIDUAL MEMBERS. DO NOT IMPAIR FULL DESIGN AND LOAD CARRYING CAPACITY OF MEMBERS DUE TO FABRICATION, SHIPMENT, OR ERECTION. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ERECTION SEQUENCE, ERECTION PROCEDURE, TEMPERATURE DIFFERENTIALS AND WELD SHRINKAGE TO MINIMIZE RESIDUE STRESSES. PROVIDE ADDITIONAL MATERIALS FOR THE ERECTION OF STRUCTURAL STEEL, SUCH AS TEMPORARY BRACING AND GUY CABLES AS MAY BE NECESSARY AT NO ADDITIONAL COST. REMOVE THESE MATERIALS UNLESS APPROVED IN WRITING BY OWNER. DO NOT TIGHTEN BOLTS IN TYPICAL BEAM TO COLUMN CONNECTIONS FOR ERECTION PURPOSES.
   I. SECURING REINFORCING STEEL, DOWELS, ANCHOR BOLTS AND EMBEDS: FIRMLY SUPPORT AND ACCURATELY PLACE COMPLYING WITH ACI STANDARDS PRIOR TO CASTING CONCRETE OR GROUT IN MASONRY WALLS. USE TIES AND SUPPORT BARS IN ADDITION TO REINFORCING STEEL SHOWN WHERE NECESSARY. NO WELDING OR REINFORCING STEEL, INCLUDING TACK WELDING, IS PERMITTED UNLESS OTHERWISE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). PROVIDE PLASTIC OR PLASTIC COATED CHAIRS AND SPACERS WHEN RESTING ON EXPOSED SURFACES.

5. COORDINATION RESPONSIBILITY: CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK INCLUDING THAT OF SUB-CONTRACTOR TRADES.

6. SUBMITTALS: SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) AS INDICATED ON STRUCTURAL DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION.
   A. REQUEST FOR INFORMATION (RFI) SUBMITTALS: ACCOMPANY RFI'S WITH PARTIAL STRUCTURAL FOUNDATION OR FRAMING PLANS SHOWING LOCATION IN QUESTION AND DETAILS AND MEMBERS. COPY PARTIAL PLAN FROM STRUCTURAL DRAWINGS AND INDICATE GRID LINE LOCATIONS AND FLOOR LEVEL. ALSO PROVIDE PROPERLY DRAWN ENGINEERING SKETCHES ILLUSTRATING ISSUES AND CONTRACTOR'S PROPOSED SOLUTIONS. PHOTOGRAPHS ARE NOT ACCEPTABLE SUBSTITUTES TO ENGINEERING SKETCHES.

7. CONTRACT DOCUMENTS USE: REVIEW CONTRACT DOCUMENTS IN THEIR ENTIRETY BEFORE PERFORMING STRUCTURAL RELATED WORK AND BEFORE DEVELOPING SHOP DRAWINGS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF ARCHITECT (STRUCTURAL ENGINEER) BEFORE STARTING WORK.
   A. SCALING OF DRAWINGS: NOT PERMITTED.
   B. ADDITIONAL STRUCTURAL REQUIREMENTS: SEE SPECIFICATIONS.
   C. BUILDING GEOMETRY: SEE ARCHITECTURAL DRAWINGS FOR BUILDING GEOMETRY INCLUDING, BUT NOT LIMITED TO, TOP OF FLOOR AND ROOF ELEVATIONS; DEPRESSIONS; SLOPES; CURBS; DRAINS; TRENCHES; SLAB AND DECK EDGE LOCATIONS; WALL OVERALL DIMENSIONS; AND SIZE AND LOCATIONS OF OPENINGS IN FLOORS, ROOF AND WALLS.
   D. NON-STRUCTURAL ITEMS REQUIRING SPECIAL PROVISIONS: SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING SPECIAL PROVISIONS DURING CONSTRUCTION. THEY INCLUDE, BUT ARE NOT LIMITED TO, NON-STRUCTURAL WALLS; SIZE AND LOCATIONS OF OPENINGS AND SLEEVES PENETRATING STRUCTURE; SIZE AND LOCATION OF CONCRETE CURBS AND PADS; AND SIZE AND LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT ANCHORAGES MOUNTED OR SUSPENDED FROM STRUCTURE. VERIFY EXACT SIZE AND LOCATION OF EQUIPMENT WITH EQUIPMENT MANUFACTURER.

8. MATERIALS: FURNISH AND INSTALL IN COMPLIANCE WITH LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION INCLUDING COUNTY AND LOCAL ORDINANCES AND SAFETY ORDERS OF STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.

9. PENETRATIONS, EMBEDMENT, AND OPENINGS IN STRUCTURAL MEMBERS: NO PENETRATION, EMBEDMENT, OPENING, SLEEVE, PIPE, OR CONDUIT SHALL OCCUR IN STRUCTURAL MEMBERS INCLUDING FOOTINGS, SLABS, WALLS, COLUMNS, AND BEAMS UNLESS SPECIFICALLY SHOWN OR INDICATED ON STRUCTURAL DRAWINGS.

10. TYPICAL DETAILS: DETAILS ON SD SERIES SHEETS ARE APPLICABLE THROUGHOUT PROJECT WHEREVER THE DESCRIBED CONDITION OCCURS AND MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.

ABBREVIATIONS

AB	= ANCHOR BOLT	HDR	= HEADER
ABV	= ABOVE	HDWR	= HARDWARE
ADDTL	= ADDITIONAL	HGR	= HANGER
ALT	= ALTERNATE	IBC	= INTERNATIONAL BUILDING CODE
AWA	= ALIGN WITH ABOVE	I

MASONRY

1. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (fm'): 2,000 PSI TYPICAL UNLESS NOTED OTHERWISE.
2. VERIFYING SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (fm'): USE MASONRY PRISM TESTING METHODS UNLESS OTHERWISE ACCEPTABLE TO ARCHITECT (STRUCTURAL ENGINEER). FULL ALLOWABLE STRESSES ARE USED IN DESIGN. SUBMIT MASONRY PRISM DATA FOR EACH TYPE AND COMPRESSIVE STRENGTH OF MASONRY REQUIRED, WITH A PROFESSIONAL ENGINEER'S SIGNATURE AND STATE OF CALIFORNIA SEAL, TO ARCHITECT (STRUCTURAL ENGINEER). COMPLIANCE WITH MINIMUM REQUIRED COMPRESSIVE STRENGTH SHALL BE BASED ON APPLICABLE CODE SECTION 2105.3.
3. CONCRETE BLOCK: ASTM C90, MEDIUM WEIGHT, GRADE N-I AND APPLICABLE CODE STANDARD 21-4 ATTAINING A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (fm').
4. FACE BRICK: ASTM C216 AND APPLICABLE CODE STANDARD 21-1.
5. PORTLAND CEMENT FOR MORTAR AND GROUT: ASTM C150, TYPE I OR II. USE OF MASONRY CEMENT OR PLASTIC CEMENT IS NOT PERMITTED.
6. AGGREGATES FOR MORTAR AND GROUT:
   A. AGGREGATES FOR MORTAR: ASTM C144.
   B. AGGREGATES FOR GROUT: C404, COARSE TYPE.
7. MORTAR: ASTM C270, TYPE S. MIX IN PROPORTIONS ACCORDING TO APPLICABLE CODE TABLE 21-A TYPE S. (2,000 PSI MINIMUM).
8. GROUT: ASTM C476, COARSE TYPE, ATTAINING A MINIMUM COMPRESSIVE STRENGTH AS REQUIRED TO MEET SPECIFIED COMPRESSIVE STRENGTH OF MASONRY (fm'). HOWEVER, IN NO CASE SHALL GROUT COMPRESSIVE STRENGTH BE LESS THAN 2,000 PSI AT 28 DAYS.
9. REINFORCING STEEL: REINFORCING STEEL SECTION OF GENERAL NOTES UNLESS INDICATED OTHERWISE.
10. COMPOSITE MASONRY WALL PENETRATION SUBMITTAL: SUBMIT FOR EACH WALL INDICATING SIZE AND LOCATION OF EACH WALL PENETRATION AND OPENING AS NECESSARY BY AFFECTED TRADES. SUBMIT TOGETHER WITH APPROPRIATE REINFORCING STEEL SHOP DRAWINGS. SUBMIT WRITTEN STATEMENT FROM SPECIAL INSPECTOR THAT NO ADDITIONAL PENETRATIONS OR OPENINGS WERE ADDED TO THOSE SHOWN IN PENETRATION SUBMITTAL.
11. REINFORCING STEEL SPLICES: LAP REINFORCING STEEL AT SPLICES A MINIMUM OF 48 BAR DIAMETERS, EXCEPT DOWELS IN FOOTINGS AT BASE OF WALLS SHALL SPLICE A MINIMUM OF 72 BAR DIAMETERS, UNLESS NOTED OTHERWISE. WHERE MINIMUM CLEAR DISTANCE BETWEEN BARS AT ADJACENT SPLICES IS 3 INCHES OR LESS, INCREASE LAP LENGTH 30 PERCENT UNLESS SPLICES ARE STAGGERED AT LEAST 24 BAR DIAMETERS.
12. DOWELS FOR WALLS, COLUMNS, PILASTERS, AND PIERS: MATCH SIZE AND SPACING OF VERTICAL REINFORCING STEEL, UNLESS NOTED OTHERWISE. SET DOWELS TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.
13. MINIMUM REINFORCING STEEL CLEARANCES:
   A. MINIMUM CLEARANCES BETWEEN REINFORCING AND OUTSIDE FACE OF MASONRY: 2" EXCEPT IN NO CASE SHALL CLEARANCE BE LESS THAN 1 $\frac{1}{2}$ db.
   B. MINIMUM CLEARANCE BETWEEN REINFORCING AND INSIDE FACE OF GROUT CELL: $\frac{1}{2}$"
   C. MINIMUM CLEARANCE DISTANCE BETWEEN PARALLEL REINFORCING: 1" OR db, WHICHEVER IS LESS. INCREASE TO 1 $\frac{1}{2}$" OR 1 $\frac{1}{2}$ db, WHICHEVER IS LESS, AT COLUMNS, PILASTERS, AND PIERS ONLY.
14. PLACEMENT: SET COURSES IN RUNNING BOND PATTERN UNLESS INDICATE OTHERWISE. SET CELLS IN VERTICAL ALIGNMENT. PROVIDE FLUSH MORTAR JOINTS AT SURFACES TO RECEIVE WATERPROOFING OR DAMP-PROOFING.
15. GROUTING: GROUT SOLID ALL CELLS. MECHANICALLY VIBRATE GROUT IN CELLS.
   A. GROUT HEIGHT LIMITS: APPLICABLE CODE TABLE 21-C
   B. HORIZONTAL CONSTRUCTION JOINTS: HOLD GROUT 1 1/2 INCHES BELOW TOP OF MASONRY UNIT IF WORK IS STOPPED ONE HOUR OR LONGER.
   C. GROUT COVER AROUND REINFORCING STEEL, ANCHOR BOLTS AND INSERTS PENETRATING MASONRY SHELL: 1" MINIMUM.
16. HORIZONTAL BAR TERMINATING AT WALL ENDS AND OPENING JAMS: EXTEND BARS TO WITHIN 2 INCHES OF END OF WALL AND PROVIDE STANDARD AI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE.

CONVENTIONAL WOOD FRAMING REQUIREMENTS - CBC A TABLE 2304.10.1

CONNECTION	NAILING
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATES, TOENAIL	(3) 8d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT WALL TOP PLATES, TOENAIL, EACH END	(2) 8d COMMON , (2) 3" x 0.131" NAILS, (2) 3" 14 GAGE STAPLES
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT WALL TOP PLATES, END NAIL	(2) 16d COMMON , (3) 3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES
FLAT BLOCKING TO TRUSS/WEB FILLER, FACE NAIL	16d COMMON , 3" x 0.131" NAILS, 3" 14 GAGE STAPLES @ 6" O.C.
CEILING JOIST TO TOP PLATE, EACH JOIST, TOENAIL	(3) 8d COMMON , (3) 3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES, $\frac{7}{16}$" CROWN
CEILING JOIST, LAPS PARTITION, FACE NAIL - TABLE 2308.7.3.1	(3) 16d COMMON , (4) 3" x 0.131" NAILS, (4) 3" 14 GAGE STAPLES, $\frac{7}{16}$" CROWN
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL - TABLE 2308.7.3.1	PER TABLE 2308.7.3.1
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES
RAFTER OR ROOF TRUSS TO PLATE, TOENAIL - TABLE 2308.7.5	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES
ROOF RAFTER TO 2x RIDGE BEAM, END NAIL	(2) 16d COMMON, (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES
STUD TO STUD (NON-BRACED WALL PANELS), 24" O.C. FACE NAIL	16d COMMON (3 $\frac{1}{2}$"x 0.162")
STUD TO STUD (NON-BRACED WALL PANELS), 16" O.C. FACE NAIL	3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES
STUD TO STUD AT INTERSECTING CORNER (BRACED), 16" O.C. FACE NAIL	16d COMMON (3 $\frac{1}{2}$"x 0.162")
STUD TO STUD AT INTERSECTING CORNER (BRACED), 12" O.C. FACE NAIL	3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES
BUILT-UP HEADER (2" TO 2"), 16" O.C. EACH EDGE, FACE NAIL	16d COMMON (3 $\frac{1}{2}$"x 0.162")
CONTINUOUS HEADER TO STUD, TOENAIL.	(4) 8d COMMON
TOP PLATE TO TOP PLATE, 16" O.C. FACE NAIL	16d COMMON
TOP PLATE TO TOP PLATE, 12" O.C. FACE NAIL	3" x 0.131" NAILS, 3" 14 GAGE STAPLES
TOP PLATE TO TOP PLATE, AT END JOINTS, EACH SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EACH SIDE END JOINT)	(8) 16d COMMON, (12) 3" x 0.131" NAILS, (12) 3" 14 GAGE STAPLES
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT NON-BRACED PANEL, 16" O.C. FACE NAIL	16d COMMON
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT NON-BRACED PANEL, 12" O.C. FACE NAIL	3" x 0.131" NAILS, 3" 14 GAGE STAPLES
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT BRACED PANEL, 16" O.C. FACE NAIL	(2) 16d COMMON, (4) 3" x 0.131" NAILS, (4) 3" 14 GAGE STAPLES
STUD TO TOP OR BOTTOM PLATE, TOENAIL	(4) 8d COMMON, (4) 3"x 0.131" NAILS, (4) 3" 14 GAGE STAPLES
STUD TO TOP OR BOTTOM PLATE, END NAIL	(2) 16d COMMON, (3) 3"x 0.131" NAILS, (3) 3" 14 GAGE STAPLES
TOP OR BOTTOM PLATE TO STUD, END NAIL	(2) 16d COMMON, (3) 3"x 0.131" NAILS, (3) 3" 14 GAGE STAPLES
TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL.	(2) 16d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES
1" BRACE TO EACH STUD AND PLATE, FACE NAIL.	(2) 8d COMMON, (2) 3" x 0.131" NAILS, OR (2) 3" 14 GAGE STAPLES
1" x 6" SHEATHING TO EACH BEARING, FACE NAIL.	(2) 8d COMMON, (2) 3" x 0.128" NAILS
1" x 8" AND WIDER SHEATHING TO EACH BEARING, FACE NAIL.	(3) 8d COMMON, (3) 3" x 0.128" NAILS
JOIST TO SILL OR GIRDER, TOENAIL	(3) 8d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES
RIM JOIST, BLOCKING TO TOP PLATE, TOENAIL.	8d (2 1/2" x 0.131") AT 6" o/c, 3" x 0.131" NAILS AT 6" o/c, OR 3" 14 GAGE STAPLES AT 6" o/c
1" x 6" SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL	(2) 8d COMMON
2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL	(2) 16d COMMON
2" PLANKS.	(2) 16d COMMON AT EACH BEARING
BUILT-UP GIRDER AND BEAMS	20d COMMON AT 32" o/c, 3" x 0.131" NAILS AT 24" o/c, OR 3" 14 GAGE STAPLES AT 24" o/c AT, AT TOP AND BOTTOM, STAGGERED (2) 20d COMMON, (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES AT ENDS AND AT EACH SPLICE
LEDGER STRIP, EACH JOIST OR RAFTER, FACE NAIL	(3) 16d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES
JOIST TO BAND JOIST, FACE NAIL	(3) 16d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d COMMON , (2) 3" x 0.131" NAILS, OR (2) 3" 14 GAGE STAPLES
BRIDGING TO JOIST, TOENAIL EACH END	(2) 8d COMMON , (2) 3" x 0.131" NAILS, OR (2) 3" 14 GAGE STAPLES

WOOD HARDWARE NAILING SCHEDULE

HOLDOWNS				
SIMPSON				USP
MODEL NAME	CAPACITY (LBS)	FASTENER SCHEDULE	APPLICATION	MODEL NAME
STHD14	3,500	(24) 10d Nails (0.148" x 3-½")	HOLDOWN	
HTT4	4,455	(18) SD #10 1-½"	HOLDOWN	
HDU4	4,565	(10) ¼" x 2-½" SDS	HOLDOWN	
HDU5	5,645	(14) ¼" x 2-½" SDS	HOLDOWN	
HDU8	6,765	(20) ¼" x 2-½" SDS	HOLDOWN	
HDU11	9,335	(30) ¼" x 2-½" SDS	HOLDOWN	
HDU14	10,770	(36) ¼" x 2-½" SDS	HOLDOWN	
ANCHOR BOLTS				
SSTB20	4,785	⅝"	HOLDOWN ANCHOR	
SSTB24	5,790	⅝"	HOLDOWN ANCHOR	
SSTB28	11,645	⅞"	HOLDOWN ANCHOR	
SB1x30	13,090	1"	HOLDOWN ANCHOR	
HARDWARE				
A34	465	(8) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MPA1
A35	650	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MPA1
LTP4	625	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP4F
LTP5	565	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP4F
LS50	560	(8) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP5
STRAPS				
MODEL NAME	CAPACITY (LBS)	FASTENER SCHEDULE	APPLICATION	MODEL NAME
CS16	1,705	(22) 8d Nails (0.131" x 2-½")	DIRECTLY TO TIMBER	RS150
CS16	1,705	(22) 8d Nails (0.131" x 2-½")	THRU PLYWOOD	RS150
CS14	2,490	(30) 8d Nails (0.131" x 2-½")	DIRECTLY TO TIMBER	
CMSTC16	4,690	(50) 10d Nails (0.148" x 3-½")	DIRECTLY TO TIMBER	
CMST14	6,475	(66) 10d Nails (0.148" x 2-½")	DIRECTLY TO TIMBER	
CMST12	9,215	(86) 10d Nails (0.148" x 2-½")	DIRECTLY TO TIMBER	
SHEAR WALLS				
NAIL TYPE	SHEAR WALL TYPE	NAIL SIZE		
8d COMMON	SW 2, 3, 4, 6	2-1/2" x .131"		
10d COMMON	SW 2B	2-1/4" x .148"		

WOOD MANUFACTURED PLATED TRUSSES

1. MANUFACTURED PLATED TRUSSES ARE A DEFERRED SUBMITTAL ITEM. SEE DESIGN/BUILD NOT SECTION FOR REQUIREMENTS.
2. GRAVITY LOADS: REFER TO PROJECT DESIGN CRITERIA FOR ALL ROOF & FLOOR MEMBER GRAVITY LOAD REQUIREMENTS. TRUSSES SHALL BE DESIGNED WITH CONSIDERATION FOR ALL SUPERIMPOSED LOADING, SUCH AS CHIMNEY FLUE FRAMING, MECHANICAL EQUIPMENT, ETC.
3. LATERAL LOADS: TRUSSES SHALL BE DESIGNED FOR SPECIFIC DRAG LOADS NOTED ON THE STRUCTURAL PLANS. ALL GABLE END TRUSSES SHALL BE DESIGNED FOR A MINIMUM 1000# LATERAL LOAD.
4. MATERIAL: ALL TRUSSES SHALL UTILIZE DOUGLAS FIR LUMBER UNLESS NOTED OTHERWISE.
5. DESIGN & CONSTRUCTION: THE STRUCTURAL DESIGN, MEANS OF CONSTRUCTION AND BRACING OF TRUSSES IS THE SOLE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND ENGINEER OF RECORD FOR THE TRUSS DESIGN AND NOT ISE.
6. SHOP DRAWINGS: THE TRUSS SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO ISE FOR REVIEW AND APPROVAL FOR GENERAL CONFORMANCE TO THE BUILDING STRUCTURAL DESIGN. THE SHOP DRAWINGS SHOULD INCLUDE A FLOOR PLAN LAYOUT AND DESIGN FOR EACH SPECIFIC TRUSS. THE TRUSS CALCULATION SHOULD INCLUDE MATERIAL TYPE, LOADING, TRUSS PROFILE AND REACTIONS.
7. HANGERS: THE TRUSS SUPPLIER SHALL SPECIFY ALL TRUSS TO TRUSS & TRUSS TO FRAMING MEMBER HANGERS.
8. LAYOUT & SPACING: THE STRUCTURAL PLANS SPECIFY A RECOMMENDED SPACING OF TRUSSES. THE TRUSS DESIGN PACKAGE DETERMINES THE FINAL SPACING OF TRUSSES. THE INTENT OF THE STRUCTURAL PLANS IS A RECOMMENDATION AND IN NO WAY REPRESENTS THE FINAL TRUSS SHAPE, CONFIGURATION OR SPACING.
9. TRUSS DEFLECTION SHALL BE LIMITED TO THE FOLLOWING:

DEFLECTION CRITERIA		
LEVEL	LIVE LOAD	TOTAL LOAD
ROOF	L/360	L/240
FLOOR	L/600	L/240

WOOD FRAMING

1. SAWN LUMBER: ALL STRUCTURAL SAWN LUMBER SHALL BE HEM-FIR WITH 19% MAXIMUM MOISTURE CONTENT OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING RULES FOR WEST COAST LUMBER NO. 17, UNLESS NOTED OTHERWISE. THE LUMBER GRADES AS SPECIFIED BELOW MEET MINIMUM REQUIREMENTS:

LUMBER GRADES	
CONDITION	GRADE
PLATES & BLOCKING	STANDARD OR BETTER
STUDS TO 10'-0" IN HEIGHT	STANDARD OR BETTER
STUDS OVER 10'-0" IN HEIGHT	#2
2x RAFTER JOISTS	#2
4x6 THROUGH 4x12 BEAMS, HEADER & POSTS	#2
4x14 BEAMS, HEADERS & POSTS	#1
4x4 POSTS, HEADERS	#2
6x AND LARGER POSTS, BEAMS, STRINGERS	#1

2. GRADE STAMPS: WHERE POSSIBLE ALL LUMBER GRADE STAMPS SHALL REMAIN ON LUMBER AFTER INSTALLATION. CONVENTIONAL LUMBER SHALL MEET DOC PS 20 REQ.
3. PRESSURE TREATED LUMBER: ALL EXPOSED EXTERIOR WOOD AND WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED FIR. ALL NAILS TO PLATES TREATED w/ BORATE MAY BE STANDARD NAILS, FOR ALL OTHER PRESSURE TREATED PLATES, USE HOT DIP GALVANIZED NAILS.
4. PLYWOOD/OSB: EACH WOOD-BASED STRUCTURAL-USE PANEL USED FOR DIAPHRAGM CONSTRUCTION SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF AN ICC-APPROVED COMPLIANCE ASSURANCE AGENCY.WOOD-BASED STRUCTURAL-USE PANELS SHALL MEET THE REQUIREMENTS OF DOC PS 1 OR PS 2. ALL PANELS SHALL BE GLUED WITH EXTERIOR TYPE GLUE MEETING APA SPECIFICATIONS. PANELS PERMANENTLY EXPOSED TO THE OUTDOORS SHALL BE EXTERIOR TYPE.
5. METAL CONNECTORS: ALL METAL CONNECTORS SHALL BE THOSE MANUFACTURED BY SIMPSON STRONG TIE OR USP LUMBER CONNECTORS. THE NAILS FOR THESE CONNECTORS SHALL BE AS SPECIFIED BY THE MANUFACTURERS FOR CAPACITY OF THE HARDWARE. ALL CALLOUTS REFER TO SIMPSON PRODUCT CODES AND NAMES. REFER TO CROSS REFERENCE TABLES PROVIDED BY USP IN THEIR PRODUCT CATALOGS.
6. FIRE STOPS: PROVIDE FIRE STOPS AT ALL INTERSECTIONS OF STUD WALLS AT FLOOR, CEILING AND ROOF. FIRE STOPS SHALL BE 2x NOMINAL THICKNESS OF WOOD AND SHALL BE THE FULL WIDTH OF THE ENCLOSED SPACE. PLACE FIRESTOPS AT A MAXIMUM SPACING OF 10'-0" IN THE VERTICAL DIRECTION. PROVIDE 2x FIRE STOPS IN ALL FURRED SPACES, VERTICAL AND HORIZONTAL, AND AT A MAXIMUM SPACING OF 10'-0" IN EACH DIRECTION AND AT THE SAME LINES AS FIRE STOPS IN ADJACENT STUD WALLS.
7. BOLT HOLES: IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER . ALL BOLTS SHALL HAVE A STANDARD CUT WASHER UNDER HEAD AND NUT UNLESS NOTED OTHERWISE.
8. BOLTS: ALL BOLTS USED FOR WOOD CONNECTIONS SHALL BE ASTM A307, U.N.O. ALL NUTS AND BOLTS SHALL BE RE-TIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC.
9. NOTCHING & CUTTING: STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED. NOTCHING OF HORIZONTAL STRUCTURAL MEMBERS SHALL CONFORM TO THE BUILDING CODE. NOTCHING AND BORING OF STUDS AND TOP PLATES SHALL CONFORM TO THE BUILDING CODE.
10. JOIST BLOCKING: PROVIDE 2x BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL BEARING SUPPORTS U.N.O. CROSS BRIDGING OR SOLID BLOCKING SHALL BE PROVIDED AT 8'-0" O.C. MAXIMUM FOR ALL JOISTS UNLESS BOTH EDGES ARE HELD IN LINE FOR THEIR ENTIRE LENGTH.
11. JOIST HANGERS: FOR I-JOISTS, PROVIDE SIMPSON "IUS" HANGER. FOR CONVENTIONAL JOIST, USE SIMPSON "LUS" HANGER, OR EQUIVALENT.
12. BEAM BEARING: ALL BEAMS TO BE SUPPORTED WITH FULL BEARING UNLESS NOTED OTHERWISE.
13. CONVENTIONAL FRAMING: ALL CONVENTIONAL FRAMED PORTIONS OF THE STRUCTURE ARE TO BE CONSTRUCTED PER CBC SECTION 2308 .
14. WALLS ON WOOD FLOOR: PROVIDE SINGLE FLOOR JOIST BELOW NON-BEARING, PARALLEL WALLS 10'-0" OR LONGER.
15. FINGER JOINTED STUDS: IT IS STRUCTURALLY ACCEPTABLE TO USE STRUCTURAL GLUED (FINGER-JOINTED) LUMBER. ALL FINGER-JOINTED LUMBER MUST BE "CER EXT JNTS" AND CONFORM WITH THE WWPA'S GLUED PRODUCTS PROCEDURES AND QUALITY CONTROL. FINGER-JOINTED LUMBER IS TO BE STAMPED WITH "CER EXT JNTS" AND MAY BE USED INTERCHANGEABLE WITH ANY SOLID-SAWN LUMBER PRODUCT OF THE SAME SPECIES AND GRADES. PLEASE REFER TO LUMBER SPECIFICATION IN THE STRUCTURAL GENERAL NOTES AND CALCULATIONS.
16. PLATE WASHERS AT NON-SILL PLATE APPLICATION: MINIMUM SIZE FOR SQUARE PLATE WASHERS: (REFER TO PLANS FOR SILL PLATE WASHER REQUIREMENTS.)

PLATE WASHERS NON SILL PLATE APPLICATION	
BOLT SIZE	PLATE WASHER SIZE
½"	$\frac{5}{16}$" x 2" x 2"
⅝"	½" x 2 ½" x 2 ½"
¾"	$\frac{5}{16}$" x 2 ½" x 2 ½"
⅞"	$\frac{5}{16}$" x 3" x 3"
1"	⅜" x 3 ½" x 3 ½"

NAILS

1. DIAPHRAGM NAILING: ALL FLOOR SHEATHING, ROOF SHEATHING AND SHEAR PANELS CONSTRUCTED USING WOOD-BASED STRUCTURAL-USE PANELS SHALL BE FASTENED WITH COMMON NAILS. HARDWARE SHALL BE NAILED PER MANUFACTURERS REQUIREMENTS, OTHERWISE SHORT NAILS MAY BE USED. NAILING SHALL BE PER THE BUILDING CODE UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS.
2. NAIL GUNS: MUST BE EQUIPPED WITH A FLUSH NAILER ATTACHMENT FOR NAILING OF PLYWOOD SHEAR WALLS, FLOOR SHEATHING AND ROOF SHEATHING.
3. NAIL MANUFACTURING: ALL NAILS MUST BE DOMESTICALLY MANUFACTURED & MEET THE REQUIREMENTS OF THE CURRENT BUILDING CODE.
4. GALVANIZED NAILS: ALL NAILS INTO PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR OTHER APPROVED COATING TO RESIST CORROSION UNLESS PRESSURE TREATED PLATE IS TREATED WITH BORATE.

MANUFACTURED LUMBER PRODUCTS

1. MANUFACTURED LUMBER: ALL MANUFACTURED SHALL HAVE ICC APPROVAL FOR THE LATEST BUILDING CODE.
2. SIZES & STRENGTH: THE FOLLOWING MINIMUM DESIGN VALUES MUST BE ACHIEVED FOR EACH TYPE OF MANUFACTURED LUMBER SPECIFIED ON THE STRUCTURAL PLANS.

STRUCTURAL COMPOSITE LUMBER			
BEAM TYPE	MINIMUM DESIGN VALUES		
	Fb (PSI)	Fv (PSI)	E (PSI x 10 ^ 6)
PSL - PARALLAM	2,900	290	2.2
LVL - MICROLAM	2,600	285	1.9
LSL - TIMBERSTRAND	2,325	310	1.55
RIM - TIMBERSTRAND	1,700	400	1.3

3. I-JOISTS: PROVIDE FLOOR I-JOISTS AS MANUFACTURED BY I-LEVEL OR APPROVED EQUAL. THE FLOOR I-JOIST SIZES NOTED ON PLAN REFERENCE I-LEVEL PRODUCT.
4. FOR UNPROTECTED EXTERIOR APPLICATIONS, CONTRACTOR TO PROVIDE EXTERIOR GRADE PRODUCTS OF EQUIVALENT DESIGN CAPACITY PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO IMMEDIATELY NOTIFY THE STRUCTURAL EOR OF ANY DISCREPANCIES, PRIOR TO THE START OF CONSTRUCTION.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY.

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	AC'D	DATE	BENCH MARK
Contractor	04.02.25	LB	1 PC #1			
Inspector						
Date Completed						

SCALE
HORIZONTAL
VERTICAL

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

_____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN SJODEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
STRUCTURAL NOTES

Drawing No. SN2

Sheet ____ of ____

THE DRAWINGS AND SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THEY ARE NOT TO BE USED ON ANY OTHER PROJECT AND WITH RESPECT TO THE PROJECT FOR WHICH THEY HAVE BEEN MADE, ARE NOT TO BE LOANED, COPIED OR REPRODUCED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. VISUAL CONTACT WITH THESE DRAWINGS AND SPECIFICATIONS SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS.

MINIMUM VERIFICATION REQUIREMENTS OF MASONRY CONSTRUCTION PER TMS 602-TABLE 3

MINIMUM VERIFICATION	REQUIRED FOR QUALIFY ASSURANCE [1] LEVEL 1	LEVEL 2	LEVEL 3
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	R	R	R
PRIOR TO CONSTRUCTION, VERIFICATION OF F'_M AND F'_{AAC}, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.	NR	R	R
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATING GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R
DURING CONSTRUCTION, VERIFICATION OF F'_M AND F'_{AAC} FOR EVERY 5,000 SQ. FT. (465 SQ. M).	NR	NR	R
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PRE-BLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATING GROUT.	NR	NR	R

[1] R = REQUIRED, NR = NOT REQUIRED

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION PER TABLE 1705.4 & TMS 602

SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE PROGRAM REQUIREMENTS OF TMS 402 AND TMS 602

MASONRY LEVEL 1 INSPECTION REQUIREMENTS

CHECK IF REQUIRED	TYPE
X	PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.

EXCEPTIONS: SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:
1. EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY OR MASONRY VENEER DESIGNED IN ACCORDANCE WITH SECTION 2109, 2110 OR CHAPTER 14, RESPECTIVELY, WHERE THEY ARE PART OF A STRUCTURE CLASSIFIED AS RISK CATEGORY I, II OR III.
2. MASONRY FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.3(1), 1807.1.6.3(2), 1807.1.6.3(3) OR 1807.1.6.3(4).
3. MASONRY FIREPLACES, MASONRY HEATERS OR MASONRY CHIMNEYS INSTALLED OR CONSTRUCTED IN ACCORDANCE WITH SECTION 2111, 2112 OR 2113, RESPECTIVELY.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION PER TABLE 1705.4 & TMS 602

MASONRY LEVEL 2 INSPECTION REQUIREMENTS

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
1. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
--	A. PROPORTIONS OF SITE-PREPARED MORTAR		X
--	B. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGE		X
--	C. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS AND PRESTRESSING TENDONS AND ANCHORAGES		X
--	D. PRESTRESSING TECHNIQUE		X
--	E. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	X[2]	X[3]
--	F. SAMPLE PANEL CONSTRUCTION		X
2. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:			
--	A. GROUT SPACE		X
--	B. PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES		X
--	C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS		X
--	D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS		X
3. VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:			
--	A. MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS		X
--	B. PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION		X
--	C. SIZE AND LOCATION OF STRUCTURAL MEMBERS		X
--	D. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION		X
--	E. WELDING OF REINFORCEMENT	X	
--	F. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))		X
--	G. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	
--	H. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	X	
--	I. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	X[2]	X[3]
--	4. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS		X

[1] FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE.
[2] REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.
[3] REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

EXCEPTIONS: SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR:
1. EMPIRICALLY DESIGNED MASONRY, GLASS UNIT MASONRY OR MASONRY VENEER DESIGNED IN ACCORDANCE WITH SECTION 2109, 2110 OR CHAPTER 14, RESPECTIVELY, WHERE THEY ARE PART OF A STRUCTURE CLASSIFIED AS RISK CATEGORY I, II OR III.
2. MASONRY FOUNDATION WALLS CONSTRUCTED IN ACCORDANCE WITH TABLE 1807.1.6.3(1), 1807.1.6.3(2), 1807.1.6.3(3) OR 1807.1.6.3(4).
3. MASONRY FIREPLACES, MASONRY HEATERS OR MASONRY CHIMNEYS INSTALLED OR CONSTRUCTED IN ACCORDANCE WITH SECTION 2111, 2112 OR 2113, RESPECTIVELY.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION PER TABLE 1705.3

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X
	REINFORCING BAR WELDING:		
--	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;		X
--	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		X
--	INSPECT ALL OTHER WELDS	X	
X	INSPECT ANCHORS CAST IN CONCRETE		X
--	INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS		
--	• ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	
--	• MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		X
X	VERIFY USE OF REQUIRED DESIGN MIX		X
X	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	
--	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
--	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
--	INSPECT PRESTRESSED CONCRETE FOR:		
--	• APPLICATION OF PRESTRESSING FORCES; AND	X	
--	• GROUTING OF BONDED PRESTRESSING TENDONS	X	
--	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		X
--	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X
--	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X

EXCEPTIONS:

1. ISOLATED SPREAD FOOTINGS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK.

2. CONTINUOUS CONCRETE FOOTINGS SUPPORTING WALLS OF BUILDINGS THREE STORIES OR LESS ABOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON EARTH OR ROCK WHERE:

2.1. THE FOOTINGS SUPPORT WALLS OF LIGHT FRAME CONSTRUCTION;
2.2. THE FOOTINGS ARE DESIGNED IN ACCORDANCE WITH 1809.7; OR
2.3 THE STRUCTURAL DESIGN OF THE FOOTING IS BASED ON f'_c= 2,500 PSI OR LESS, REGARDLESS OF THE COMPRESSIVE STRENGTH SPECIFIED IN THE IN THE CONSTRUCTION DOCUMENTS OR USED IN THE FOOTING CONSTRUCTION.

3. NON STRUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY ON THE GROUND, INCLUDING PRESTRESSED SLABS ON GRADE, WHERE THE EFFECTIVE PRE-STRESS IS LESS THAN 150 PSI.

4. CONCRETE FOUNDATION WALLS CONSTRUCTED WITH TABLE 1807.1.6.2

5. CONCRETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE.

REQUIRED SPECIAL INSPECTIONS FOR WIND RESISTANCE PER 1705.11

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	1. IN WIND EXPOSURE CATEGORY B, WHERE V_{ASD} AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 IS 120 MILES PER HOUR OR GREATER	--	X
--	2. IN WIND EXPOSURE CATEGORY C OR D, WHERE V_{ASD} AS DISTERMINED IN ACCORDANCE WITH SECTION 1609.3.1 IS 110 MPH OR GREATER	--	X

STRUCTURAL WOOD PER 1705.11.1

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE RESISTING SYSTEM	X	--
X	INSPECTION OF NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.	--	X

EXCEPTION:
SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, WHERE THE SPECIFIED FASTENER SPACING AT PANEL EDGES IS MORE THAN 4 INCHES ON CENTER.

COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION PER 1705.11.2

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	INSPECTION FOR WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.	--	X
--	INSPECTION FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	--	X

EXCEPTION:
SPECIAL INSPECTIONS ARE NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS AND DIAPHRAGMS, INCLUDING SCREWING, BOLTING, ANCHORING AND OTHER FASTENING TO COMPONENTS OF THE WINDFORCE RESISTING SYSTEM, WHERE EITHER OF THE FOLLOWING APPLIES:
1. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.
2. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEARWALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER (O.C.).

WIND RESISTING COMPONENTS PER 1705.11.3

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS.	--	X
--	EXTERIOR WALL COVERING AND WALL CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.	--	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS PER TABLE 1705.6

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
X	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
X	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		
X	PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X
X	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X	
X	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

EXCEPTIONS:

WHERE SECTION 1803 DOES NOT REQUIRE REPORTING OF MATERIALS AND PROCEDURES FOR FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXI-MUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D1557

REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE PER 1705.12

STRUCTURAL STEEL PER 1705.12.1

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	SPECIAL INSPECTIONS OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B, C, D, E OR F SHALL BE PER-FORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	--	--

EXCEPTIONS:
1. IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B OR C, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR STRUCTURAL STEEL SEISMIC FORCE-RESISTING SYSTEMS WHERE THE RESPONSE MODIFICATION COEFFICIENT, R, DESIGNATED FOR "STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS" IN ASCE 7, TABLE 12.2-1, HAS BEEN USED FOR DESIGN AND DETAILING.
2. IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F, SPECIAL INSPECTIONS ARE NOT REQUIRED FOR STRUCTURAL STEEL SEISMIC FORCE-RESISTING SYSTEMS WHERE DESIGN AND DETAILING IN ACCORDANCE WITH AISC 360 IS PERMITTED BY ASCE 7, TABLE 15.4-1.

STRUCTURAL STEEL ELEMENTS PER 1705.12.2

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	INSPECTION OF STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	--	--

EXCEPTIONS:
1. IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY B OR C, SPECIAL INSPECTIONS OF STRUCTURAL STEEL ELEMENTS ARE NOT REQUIRED FOR SEISMIC FORCE-RESISTING SYSTEMS WITH A RESPONSE MODIFICATION COEFFICIENT, R, OF 3 OR LESS.
2. IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F, SPECIAL INSPECTIONS OF STRUCTURAL STEEL ELEMENTS ARE NOT REQUIRED FOR SEISMIC FORCE-RESISTING SYSTEMS WHERE DESIGN AND DETAILING OTHER THAN AISC 341 IS PERMITTED BY ASCE 7, TABLE 15.4-1. SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH THE APPLICABLE REFERENCED STANDARD LISTED IN ASCE 7, TABLE 15.4-1.

STRUCTURAL WOOD PER 1705.12.2

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	INSPECTION DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.	X	--
X	INSPECTION FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.	--	X

EXCEPTION:
SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION PER 1705.11.2

CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC
--	INSPECTION FOR WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.	--	X
--	INSPECTION FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.	--	X

EXCEPTION:
SPECIAL INSPECTIONS ARE NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-FRAME SHEAR WALLS AND DIAPHRAGMS, INCLUDING SCREW INSTALLATION, BOLTING, ANCHORING AND OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, WHERE EITHER OF THE FOLLOWING APPLIES:
1. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.
2. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

EXCEPTION:
THE SPECIAL INSPECTIONS SPECIFIED IN SECTIONS 1705.12.1 THROUGH 1705.12.9 ARE NOT REQUIRED FOR STRUCTURES
DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ONE OF THE FOLLOWING:
1. THE STRUCTURE CONSISTS OF LIGHT-FRAME CONSTRUCTION; THE DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, SDS, AS DETERMINED IN SECTION 1613.2.4, DOES NOT EXCEED 0.5; AND THE BUILDING HEIGHT OF THE STRUCTURE DOES NOT EXCEED 35 FEET.
2. THE SEISMIC FORCE-RESISTING SYSTEM OF THE STRUCTURE CONSISTS OF REINFORCED MASONRY OR REINFORCED CONCRETE; THE DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIODS, SDS, AS DETERMINED IN SECTION 1613.2.4, DOES NOT EXCEED 0.5; AND THE BUILDING HEIGHT OF THE STRUCTURE DOES NOT EXCEED 25 FEET.
3. THE STRUCTURE IS A DETACHED ONE- OR TWO-FAMILY DWELLING NOT EXCEEDING TWO STORIES ABOVE GRADE PLANE AND DOES NOT HAVE ANY OF THE FOLLOWING HORIZONTAL OR VERTICAL IRREGULARITIES IN ACCORDANCE WITH SECTION 12.3 OF ASCE 7:
3.1. TORSIONAL OR EXTREME TORSIONAL IRREGULARITY.
3.2. NONPARALLEL SYSTEMS IRREGULARITY.
3.3. STIFFNESS-SOFT STORY OR STIFFNESS-EXTREME SOFT STORY IRREGULARITY.
3.4. DISCONTINUITY IN LATERAL STRENGTH-WEAK STORY IRREGULARITY.

DEPUTY SPECIAL INSPECTOR

1. DEPUTY SPECIAL INSPECTIONS SHALL BE PROVIDED BY:

   NAME:
   PHONE NUMBER:

2. SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER TO PROVIDE SPECIAL INSPECTIONS AS REQUIRED PER THE PLANS.

3. SPECIAL INSPECTOR: A QUALIFIED PERSON, EMPLOYED BY THE OWNER, WHO HAS DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. DUTIES INCLUDE VISUAL INSPECTIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND RELATED ACTIONS INCLUDING PREPARATION OF REPORTS.

4. CONTINUOUS INSPECTION: ON SITE INSPECTION BY THE SPECIAL INSPECTOR ON A CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTION.

5. PERIODIC INSPECTION: INTERMITTENT INSPECTION AS PERMITTED BY THE PLAN, SPECIFIED AT PRE-DETERMINED INTERVALS OR MORE FREQUENTLY AS WORK PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED BY ADDITIONAL WORK UNTIL APPROVED BY THE BUILDING OFFICIAL AND/OR SPECIAL INSPECTOR.

6. REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IN A TIMELY MANNER AS DETERMINED BY THE BUILDING OFFICIAL.

QUALITY ASSURANCE (STRUCTURAL OBSERVATION, MATERIALS TESTING, AND SPECIAL INSPECTION)

1. STRUCTURAL OBSERVATION:
   A. COORDINATION RESPONSIBILITIES OF CONTRACTOR: NOTIFY ARCHITECT (STRUCTURAL ENGINEER) 48 HOURS IN ADVANCE OF CRITICAL STAGES OF CONSTRUCTION INDICATED BELOW SO VISITS MAY BE SCHEDULED BY STRUCTURAL OBSERVER. FAILURE BY CONTRACTOR TO MEET OBSERVATION SCHEDULE MAY REQUIRE REMOVAL OF SUBSEQUENT WORK FOR OBSERVATION. CONTRACTOR TO BEAR COSTS OF REMOVAL AND REPLACEMENT OF FINISHED WORK OR FRAMING DAMAGED BY REMOVAL PROCESS OR AS REQUIRED FOR CORRECTIVE ACTION.
   B. PRE-CONSTRUCTION MEETING: OWNER MAY COORDINATE AND CALL FOR MEETING BETWEEN ARCHITECT (STRUCTURAL ENGINEER) RESPONSIBLE FOR STRUCTURAL DESIGN, STRUCTURAL OBSERVER, CONTRACTOR, AFFECTED SUBCONTRACTORS AND SPECIAL INSPECTOR. STRUCTURAL OBSERVER WILL PRESIDE OVER THIS MEETING. PURPOSE OF MEETING IS TO IDENTIFY MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT VERTICAL AND LATERAL LOAD RESISTING SYSTEMS OF STRUCTURE AND TO REVIEW SCHEDULE OF STRUCTURAL OBSERVATION, MATERIALS TESTING, AND SPECIAL INSPECTION OF PROJECT.
   C. CRITICAL STAGES OF CONSTRUCTION REQUIRING STRUCTURAL OBSERVATION:
   I. CASTING OF CONCRETE
   II. COVERING OF FRAMING

2. MILL TEST REPORTS CERTIFYING MATERIALS: CONTRACTOR TO SUBMIT MILL TEST REPORTS CERTIFYING REINFORCING STEEL, STRESSING TENDONS, AND STRUCTURAL STEEL ARE OF IDENTIFIABLE TESTED STOCK TO OWNER, SPECIAL INSPECTOR, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. ENSURE MATERIALS ARE PROPERLY TAGGED FOR IDENTIFICATION. IF MILL TEST REPORTS CANNOT BE MADE AVAILABLE OR IF MATERIAL CANNOT BE IDENTIFIED, TESTING LABORATORY WILL PERFORM TESTS AS DIRECTED BY ARCHITECT (STRUCTURAL ENGINEER). CONTRACTOR SHALL PAY TESTING RELATED TO TESTS AND INSPECTIONS OF UNIDENTIFIABLE MATERIALS FURNISHED WITHOUT MILL LABORATORY FOR COSTS TEST REPORTS, MATERIALS FOUND DEFICIENT AFTER INITIAL TESTS AND INSPECTIONS, OR MATERIALS REPLACING DEFICIENT MATERIALS.
   A. ULTRASONIC EXAMINATION OF HEAVY ROLLED SHAPES AND THICK PLATES AT PROPOSED WELDED MOMENT CONNECTIONS: WHERE COMPLETE PENETRATION GROOVE WELDS OCCUR AT GROUPS 4 AND 5 STRUCTURAL STEEL SHAPES, AS DEFINED IN ASTM A6, AND PLATES EXCEEDING 2 INCHES THICK, SUBMIT MILL TEST REPORTS TO ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. MILL TEST REPORTS SHALL CERTIFY THAT CHARPY V-NOTCH TESTING WAS CONDUCTED IN COMPLIANCE WITH ASTM A6, SUPPLEMENTARY REQUIREMENT S5, INCLUDING IMPACT TEST COMPLYING WITH ASTM A673 AT FREQUENCY P WITH MINIMUM AVERAGE VALUE OF 20 FT.-LBS. ABSORBED ENERGY AT 70 DEGREES FAHRENHEIT.

3. CERTIFICATE OF COMPLIANCE FOR OFFSITE FABRICATION: SUBMIT FOR STRUCTURAL STEEL, GLU-LAMS, AND PLYWOOD-WEB JOISTS, PRECAST CONCRETE IN COMPLIANCE WITH APPLICABLE CODE SECTION 1701.7. SUBMIT TO OWNER, TESTING LABORATORY, ARCHITECT (STRUCTURAL ENGINEER) AND GOVERNING CODE AUTHORITY.

4. WELD TESTING AND INSPECTION: TESTING LABORATORY WILL SUBMIT WELD TEST RESULTS TO OWNER, CONTRACTOR, ARCHITECT (STRUCTURAL ENGINEER) AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. SEE SPECIFICATIONS FOR TESTING REQUIREMENTS NOT INDICATED ON STRUCTURAL DRAWINGS.

   A. STRUCTURAL STEEL WELDING NOT DESTRUCTIVE TESTING REQUIREMENTS: APART FROM VISUAL INSPECTION AND REVIEW OF FABRICATION AND ERECTION REPORTS OF FABRICATOR/ERECTOR'S OWN QUALITY CONTROL TESTING AND INSPECTION, OWNER'S TESTING LABORATORY WILL PERFORM INDICATED SHOP AND FIELD INSPECTION AND TESTING. TESTING LABORATORY WILL BE AWS CERTIFIED AND WILL PROVIDE INSPECTORS FOR CONTINUOUS INSPECTION OF STEEL FABRICATION AND ERECTION AND STRUCTURAL WELDING. SHOP AND FIELD TESTING OF MATERIALS AND WELDING WILL BE AS FOLLOWS:
   I. COMPLETE JOINT PENETRATION WELDS: FOR STRUCTURES IN RISK CATEGORY III OR IV ULTRASONIC TESTING (UT) SHALL BE PERFORMED BY QA ON ALL CJP GROOVE WELDS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN BUTT, T- AND CORNER JOINTS, IN MATERIALS 5/16 IN. THICK OR GREATER. FOR STRUCTURES IN RISK CATEGORY I, UT SHALL BE PERFORMED BY QA ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING, IN MATERIALS 5/16 IN THICK OR GREATER. FOR STRUCTURES IN RISK CATEGORY I, NDT OF CJP GROOVE WELDS IS NOT REQUIRED. FOR ALL STRUCTURES IN ALL RISK CATEGORIES, NDT OF CJP GROOVE WELDS IN MATERIALS LESS THAN 5/16 IN THICK IS NOT REQUIRED.
   II. ACCESS HOLES: THERMALLY CUT SURFACES OF ACCESS HOLES SHALL BE TESTED BY QA USING MT OR PT, WHEN THE FLANGE THICKNESS EXCEEDS 2 IN. (50 MM) FOR ROLLED SHAPES, OR WHEN THE WEB THICKNESS EXCEEDS 2 IN FOR BUILT-UP SHAPES. ANY CRACK SHALL BE DEEMED UNACCEPTABLE REGARDLESS OF SIZE OR LOCATION.

5. CONTINUOUS SPECIAL INSPECTION: UNLESS OTHERWISE INDICATED, CONTINUOUS SPECIAL INSPECTION WILL BE PERFORMED BY SPECIAL INSPECTOR COMPLYING WITH APPLICABLE CODE SECTION 1701 AND SPECIFICALLY APPROVED BY GOVERNING CODE AUTHORITY FOR EACH INSPECTION CATEGORY BELOW. PERIODIC INSPECTION IS NOT PERMITTED UNLESS INDICATED IN THE PROGRAM OR OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER). SEE SPECIFICATIONS FOR ADDITIONAL SPECIAL INSPECTION REQUIREMENTS.

ENGINEER OF RECORD - STRUCTURAL OBSERVATION PROGRAM

STRUCTURAL OBSERVATIONS FOR SEISMIC & WIND RESISTANCE:

1. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT REGISTERED/LICENSED IN THE STATE OF CALIFORNIA WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION(S).

   ENGINEER IN RESPONSIBLE CHARGE/ENGINEER OF RECORD:

   NAME: SHAWN LOTHROP, SE
   LIC #: S5627

   OBSERVER DESIGNATED BY E.O.R. RESPONSIBLE FOR STRUCTURAL OBSERVATION(S):

   NAME: SHAWN LOTHROP, SE
   LIC #: S5627

2. STRUCTURAL OBSERVATIONS SHALL BE PROVIDED BY THE DESIGNATED STRUCTURAL OBSERVER FOR ALL BUILDINGS AT THE FOLLOWING STAGES OF CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED OR REQUESTED IN WRITING BY THE BUILDING OFFICIAL:

   A. PRE-CONCRETE POUR REBAR OBSERVATION
   B. WOOD FRAMING OBSERVATION PRIOR TO COVERING w/ FINISH & AFTER ROOF LOAD

3. PRIOR TO COMMENCEMENT OF OBSERVATION, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING DEPARTMENT A WRITTEN STATEMENT IDENTIFYING THE FREQUENCY AND EXTENT OF THE STRUCTURAL OBSERVATION.

4. AT THE CONCLUSION OF WORK, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING DEPARTMENT A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATION VISITS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVERS KNOWLEDGE, HAVE NOT BEEN RESOLVED.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

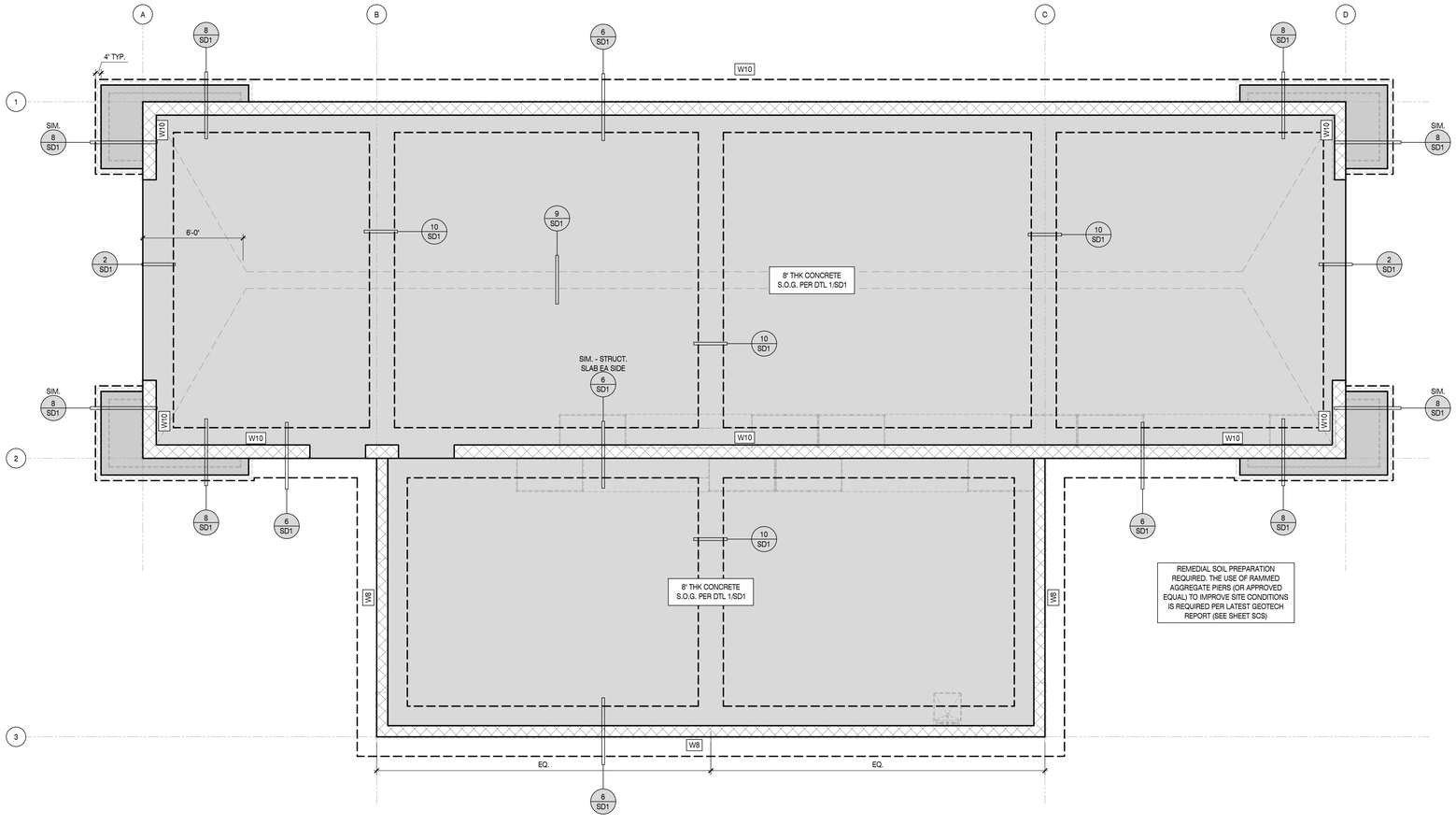
TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY.

APPROVED BY: _____ NAME: _____ DATE: _____

| CONS



GEOTECHNICAL INFORMATION

1. REFER TO STRUCTURAL COVER SHEET (SCS) FOR ASSUMED SOIL VALUES OR VALUES BASED ON THE PROVIDED GEOTECHNICAL (SOILS) REPORT:
2. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT:
   a. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SOILS REPORT,
   b. THE FOOTINGS EXTEND TO THE PROPER DEPTH OR BEARING STRATA,
   c. UTILITY TRENCHES ARE PROPERLY BACKFILLED AND COMPACTED,
   d. AND THAT THE CONDITIONS FOUND MATCH THOSE ASSUMED IN THE SOILS REPORT.

FOUNDATION NOTES

1. INSTALL HOLDOWN ANCHOR BOLTS PER DETAIL 7/SD1. PROVIDE AND INSTALL ALL U.S.P. OR SIMPSON LUMBER CONNECTORS (OR EQUAL) FOUNDATION HARDWARE PER MANUFACTURERS RECOMMENDATIONS. DEEPEN FOOTING WHERE NECESSARY TO PROVIDE ANCHOR EMBEDMENT AT HOLDOWN LOCATIONS.
2. REFER TO DETAIL 4/SD0 FOR FOR ANCHOR BOLT SPACING AND ANCHOR BOLT INSTALLATION.
3. REFER TO DETAIL PACKAGE FOR TYPICAL CONDITIONS NOT SPECIFICALLY CALLED OUT OR NOTED ON PLANS.
4. ALL DIMENSIONS SHALL BE PER THE CURRENT APPROVED STAMPED SET OF ARCHITECTURAL PLANS. OUR OFFICE SHOULD BE NOTIFIED IMMEDIATELY IF DISCREPANCIES EXIST BETWEEN THE ARCHITECTURAL & STRUCTURAL PLANS.
5. CONSTRUCT CONTINUOUS FOOTINGS AT CORNERS AND INTERSECTIONS PER DETAIL 2/SD0
6. FOUNDATION SIZES, DEPTHS, AND REINFORCEMENT SHOULD BE COORDINATED WITH THE OWNER/DEVELOPER'S SOILS ENGINEERS REPORT. SOILS ENGINEER REPORT MAY REQUIRE ADDITIONAL ITEMS NOT NOTED ON THE STRUCTURAL PLANS.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, DRAINS, OVERALL DIMENSIONS, AND LOCATIONS OF OPENINGS IN WALLS AND SLABS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. CENTER CONTINUOUS FOOTING UNDER WALLS U.N.O. CENTER PAD FOOTINGS BELOW COLUMNS U.N.O. ON PLAN.
4.

STRUCTURAL OBSERVATION REQUIREMENTS

STRUCTURAL OBSERVATION IS REQUIRED BY THE ENGINEER OF RECORD. OUR OFFICE SHOULD BE NOTIFIED TO PERFORM STRUCTURAL OBSERVATION AT THE FOLLOWING STAGES OF CONSTRUCTION:
1. PRIOR TO POUR OF CONCRETE TO OBSERVE REINFORCING & EMBEDS
2. PRIOR TO COVERING ANY COMPLETED STRUCTURAL MEMBER

FOUNDATION LEGEND & SYMBOLS

INDICATES: CONCRETE SLAB & FOOTING. FOOTING SIZE AND REINFORCING PER DETAIL SHEETS SD1.

W# — WALL ID

INDICATES: FULLY GROUTED CMU WALL w/ VERTICAL BARS AT 16" O.C. CENTERED IN WALL & #5 HORIZONTAL BARS AT 24" O.C. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. REFER TO SCHEDULE BELOW FOR WALL THICKNESS & VERTICAL REBAR SIZES

CMU WALL SCHEDULE

PLAN ID	WALL THICKNESS	VERTICAL REBAR SIZE & SPACING
W8	8"	#5 AT 16" O.C.
W10	10"	#6 AT 16" O.C.

AT XX' O.C. — ANCHOR /SPACING; X — DETAIL #; XX — SHEET #

INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL SHEET NUMBER FOR MORE INFORMATION. TEXT ABOVE BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

APPARATUS BAY FOUNDATION PLAN

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

ISE STRUCTURAL ENGINEERS
27360 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	BC'D	DATE	BENCH MARK
Contractor _____	04.02.25	LB	1	PC #1			
Inspector _____							
Date Completed _____							

SCALE: horizontal / vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJDARI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
FOUNDATION PLAN

Drawing No. S1

Sheet ____ of ____

TENSION / DRAG STRAP SCHEDULE

INDICATES: DRAG TIE STRAP PER PLAN AND STRAP DETAIL CONNECTION BELOW.

STRAPS PER SCHEDULE ON TABLE A — SX-(##) — STRAP DETAIL CONNECTION ON TABLE B

TABLE A - DRAG STRAPS			
PLAN ID	STRAP	MEMBER WIDTH	STRAP (TJI)
SA	(1) CS14	2x	MSTI26
SB	(2) CS14	2-2x	MSTI36
SC	CMST14	2-2x	MST48
SD	CMST12	2-2x	CMST14
T4	HTT4	2-2x OR 3 1/2"	-

TABLE B	
PLAN ID	DETAIL
12	12/SD4

FRAMING NOTES

1. FOR DESIGN CRITERIA, REFER TO SHEET SCS, FOR GENERL NOTES, REFER TO SN SERIES SHEETS.
2. FOR FRAMING DETAILS, REFER TO SD SHEETS.
3. GENERAL WALL INFO.

   GYM BLDG:
   SPLICE ALL EXTERIOR WALL AND INTERIOR SHEAR WALL TOP PLATE BREAKS PER DETAIL 1/SD2.1, TYP.

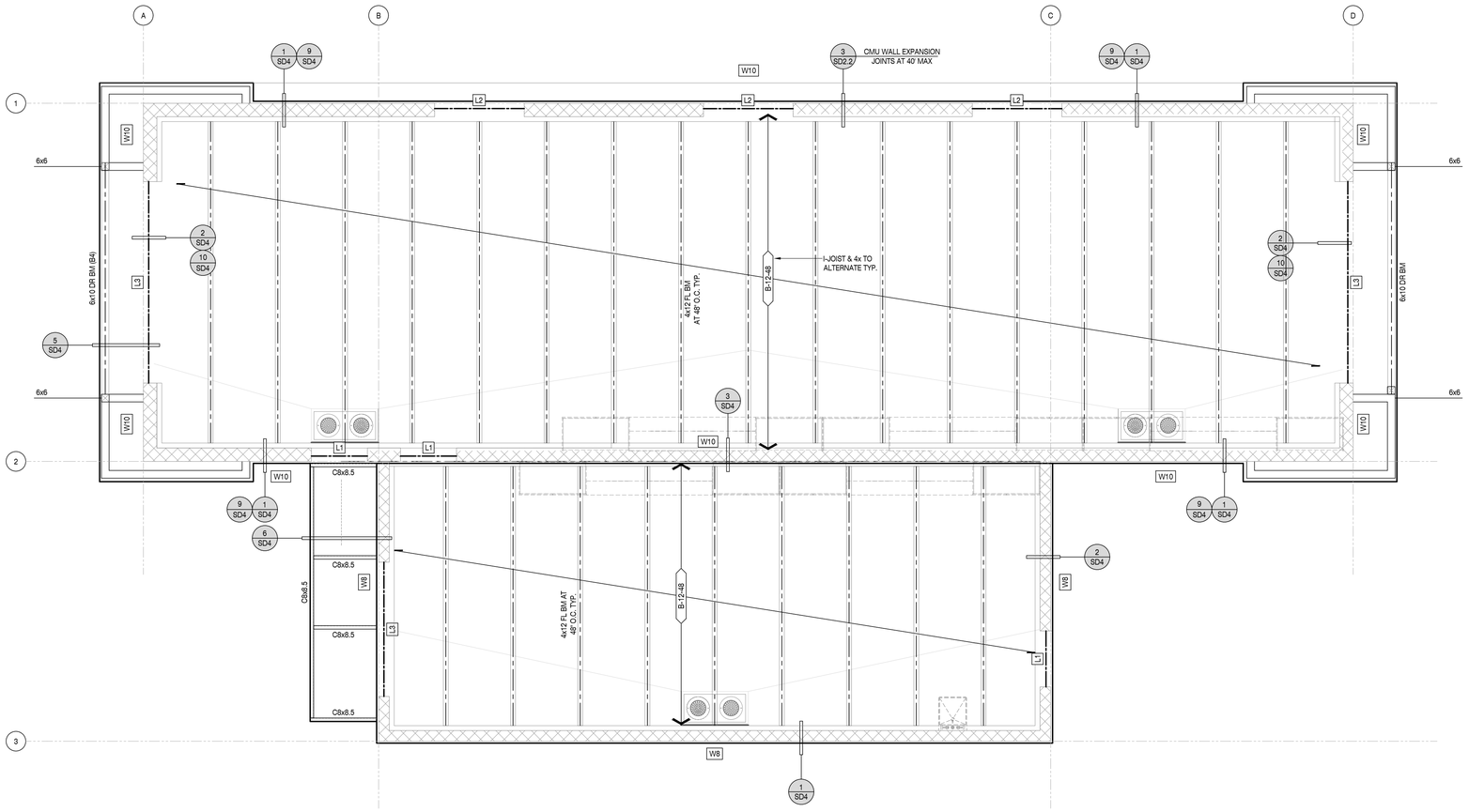
   APPARATUS BLDG:
   REFER TO SHEET SD2.2 FOR TYPICAL MASONRY WALL DETAILS.

4. WALL OPENINGS:

   GYM BLDG:
   ALL HEADERS ARE TO BE 6x6 MINIMUM U.N.O. ON PLAN. REFER TO DETAIL SHEET SD2 FOR MORE INFORMATION.

   APPARATUS BLDG:
   REFER TO PLAN SHEETS FOR LINTEL TYPE CALLED OUT. REFER TO SHEET SD2.2 FOR ADDITIONAL INFO.

5. REFER TO NON-BEARING HEADER SCHEDULE ON SHEET SD2 FOR HEADER SIZES AT ALL LOCATIONS NOT SHOWN ON THE FRAMING PLAN
6. ALL DIAPHRAGMS WILL BE BLOCKED DIAPHRAGMS PER DTL 3/SD2 U.N.O. ON PLAN. FOR THE APPARATUS BUILDING, REFER TO DIAPHRAGM PLAN SHEET S3 AND DIAPHRAGM SCHEDULE FOR MORE INFORMATION.
7. SEE ARCHITECTURAL DRAWINGS FOR TOP OF ROOF SHEATHING ELEVATIONS, TOP OF PARAPET ELEVATIONS, ROOF SLOPES, ROOF DRAINS, SCUPPERS, AND OVERFLOWS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF MOUNTED EQUIPMENT, ROOF SUSPENDED EQUIPMENT, AND ROOF OPENINGS FOR DUCTWORK AND VENTILATION NOT INDICATED ON THE STRUCTURAL DRAWINGS.
9. ROOFTOP MECHANICAL EQUIPMENT WEIGHTS WHEN INDICATED ON PLAN SHEETS OR DETAILS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD.
10. DIMENSIONS TO WALL FACES ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.



FRAMING LEGEND & SYMBOLS

AT XX" O.C. — REQUIRED ANCHOR/SPACING; X/XX — DETAIL # / SHEET #

INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL SHEET NUMBER FOR MORE INFORMATION. TEXT ABOVE BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL

WALL ID — W#

INDICATES: FULLY GROUTED CMU WALL w/ VERTICAL BARS CENTERED IN WALL & #5 HORIZONTAL BARS AT 24' O.C. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. REFER TO SCHEDULE BELOW FOR WALL THICKNESS & VERTICAL REBAR SIZES

CMU WALL SCHEDULE		
PLAN ID	WALL THICKNESS	VERTICAL REBAR SIZE & SPACING
W8	8"	#5 AT 16" O.C.
W10	10"	#6 AT 16" O.C.

L2

INDICATES: MASONRY LINTEL PER PLAN & DETAIL 7/ SD2.2

XX

INDICATES: FRAMING MEMBER SIZE AND SPACING.
REFER TO FRAMING SCHEDULE FOR SPECIFIC INFORMATION.
REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

RXX.XB

INDICATES: BLOCKED HORIZONTAL DIAPHRAGM w 2x4 FLAT BLOCKING. REFER TO DIAPHRAGM SCHEDULE FOR SHEATHING INFO, NAIL TYPE, & SPACING REQUIREMENTS. DEFAULT ROOF & FLOOR DIAPHRAGMS ARE R6 & F6 RESPECTIVELY, U.N.O. ON PLAN.

SITE JOIST SCHEDULE

XX-X-XX — JOIST DEPTH PER TABLE B; ROOF; JOIST SPACING (IN. O.C.); JOIST TYPE (NOMINAL SIZE) PER TABLE A

TABLE A

TYPE	NOMINAL SIZE/SPEC.	MANUF.
A	110	TJI
B	210	TJI
C	230	TJI
D	360	TJI
E	560	TJI
F	560D	TJI

REFER TO 'FLOOR JOIST SPECIFICATIONS' ON SHEET SN1 FOR MANUF ALT

TABLE B

JOIST DEPTH CALL OUT	ACTUAL DEPTH
12	11 7/8"
14	14
16	16

INDICATES FRAMING MEMBER SIZE AND SPACING. REFER TO FRAMING SCHEDULE FOR SPCIFIC INFORMATION. REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

APPARATUS BAY ROOF FRAMING PLAN

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

ISE
STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	REC'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE
Horizontal
Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____
R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ANSARI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
ROOF FRAMING PLAN

Drawing No. S2

Sheet ____ of ____

DIAPHRAGM SCHEDULE

DIAPHRAGM SCHEDULE								
PLAN ID	MIN. NOMINAL WIDTH OF NAILED FACE OF ADJOINING PANEL EDGES	PANEL THICKNESS (IN.)	NAIL SPACING				ALLOWABLE SEISMIC CAPACITY (PLF)	ALLOWABLE WIND CAPACITY (PLF)
			ROWS	B.N.	E.N.	F.N.		
R4B	3x BLOCKED	19/32"	1	4" O.C.	4" O.C.	12" O.C.	480	673
R2.5B	3x BLOCKED	19/32"	1	2.5" O.C.	2.5" O.C.	12" O.C.	720	1008
RH2.5B	4x BLOCKED	19/32"	2	2.5" O.C.	2.5" O.C.	12" O.C.	1439	2015

REFER TO DETAIL 2 & 3 ON SHEET SD2 FOR ADDITIONAL INFORMATION NOT PROVIDED IN THIS SCHEDULE

TENSION / DRAG STRAP SCHEDULE

INDICATES: DRAG TIE STRAP PER PLAN AND STRAP DETAIL CONNECTION BELOW.

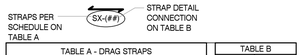


TABLE A - DRAG STRAPS			
PLAN ID	STRAP	MEMBER WIDTH	STRAP (TJI)
SA	(1) CS14	2x	MSTI26
SB	(2) CS14	2-2x	MSTI36
SC	CMST14	2-2x	MST48
SD	CMST12	2-2x	CMST14
T4	HTT4	2-2x OR 3 1/2"	-

TABLE B	
PLAN ID	DETAIL
12	12/SD4

FRAMING NOTES

1. FOR DESIGN CRITERIA, REFER TO SHEET SCS, FOR GENERL NOTES, REFER TO SN SERIES SHEETS.
2. FOR FRAMING DETAILS, REFER TO SD SHEETS.
3. GENERAL WALL INFO.

   GYM BLDG:
   SPLICE ALL EXTERIOR WALL AND INTERIOR SHEAR WALL TOP PLATE BREAKS PER DETAIL 1/SD2.1, TYP.

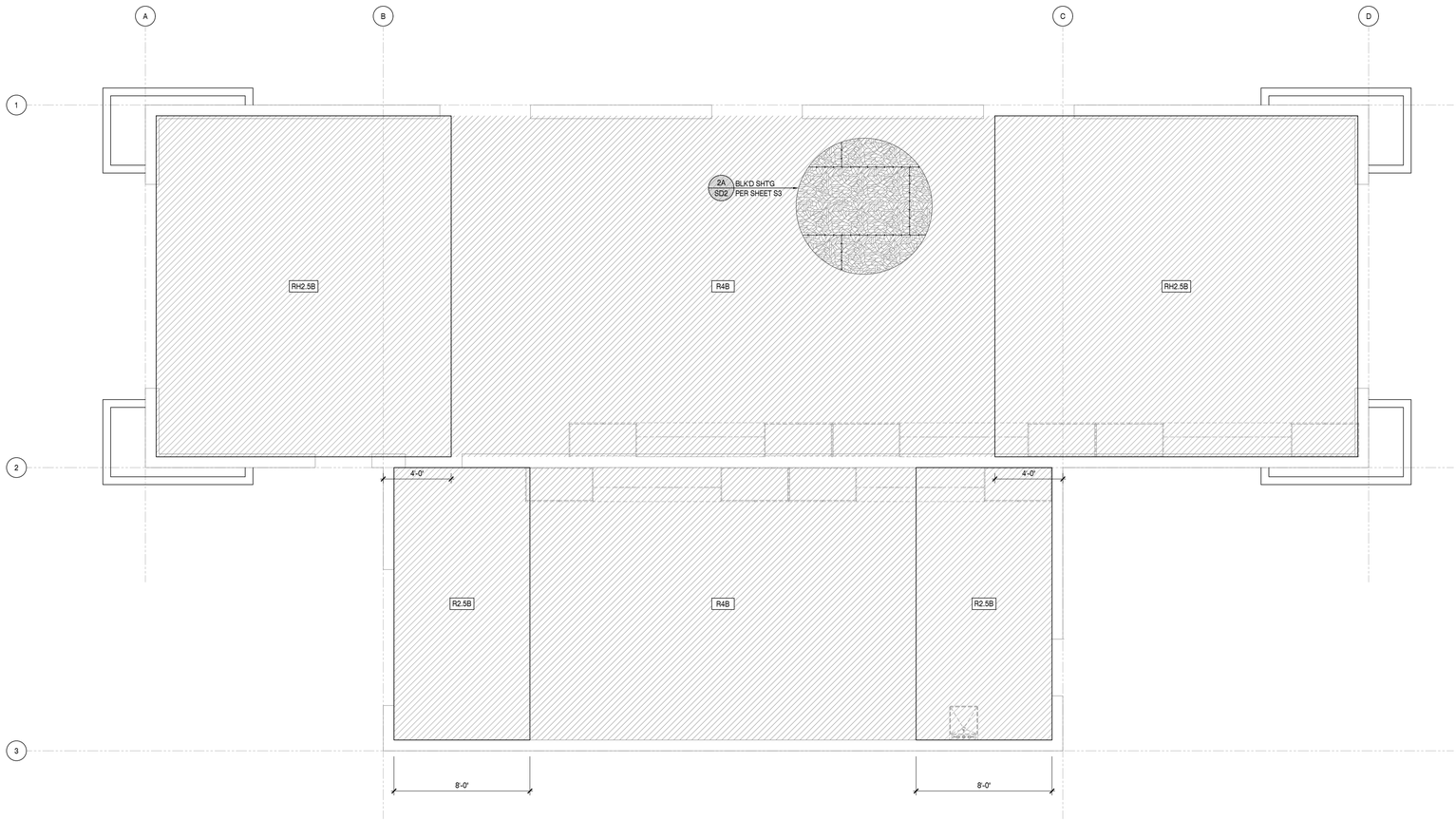
   APPARATUS BLDG:
   REFER TO SHEET SD2.2 FOR TYPICAL MASONRY WALL DETAILS.

4. WALL OPENINGS:

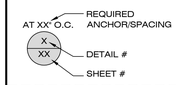
   GYM BLDG:
   ALL HEADERS ARE TO BE 6x6 MINIMUM U.N.O. ON PLAN. REFER TO DETAIL SHEET SD2 FOR MORE INFORMATION.

   APPARATUS BLDG:
   REFER TO PLAN SHEETS FOR LINTEL TYPE CALLED OUT. REFER TO SHEET SD2.2 FOR ADDITIONAL INFO.

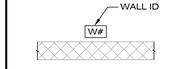
5. REFER TO NON-BEARING HEADER SCHEDULE ON SHEET SD2 FOR HEADER SIZES AT ALL LOCATIONS NOT SHOWN ON THE FRAMING PLAN
6. ALL DIAPHRAGMS WILL BE BLOCKED DIAPHRAGMS PER DTL 3/SD2 U.N.O. ON PLAN. FOR THE APPARATUS BUILDING, REFER TO DIAPHRAGM PLAN SHEET S3 AND DIAPHRAGM SCHEDULE FOR MORE INFORMATION.
7. SEE ARCHITECTURAL DRAWINGS FOR TOP OF ROOF SHEATHING ELEVATIONS, TOP OF PARAPET ELEVATIONS, ROOF SLOPES, ROOF DRAINS, SCUPPERS, AND OVERFLOWS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF MOUNTED EQUIPMENT, ROOF SUSPENDED EQUIPMENT, AND ROOF OPENINGS FOR DUCTWORK AND VENTILATION NOT INDICATED ON THE STRUCTURAL DRAWINGS.
9. ROOFTOP MECHANICAL EQUIPMENT WEIGHTS WHEN INDICATED ON PLAN SHEETS OR DETAILS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD.
10. DIMENSIONS TO WALL FACES ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.



FRAMING LEGEND & SYMBOLS



INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL SHEET NUMBER FOR MORE INFORMATION. TEXT ABOVE BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL



INDICATES: FULLY GROUTED CMU WALL w/ VERTICAL BARS CENTERED IN WALL & #5 HORIZONTAL BARS AT 24' O.C. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. REFER TO SCHEDULE BELOW FOR WALL THICKNESS & VERTICAL REBAR SIZES

CMU WALL SCHEDULE		
PLAN ID	WALL THICKNESS	VERTICAL REBAR SIZE & SPACING
W8	8"	#5 AT 16" O.C.
W10	10"	#6 AT 16" O.C.

INDICATES: MASONRY LINTEL PER PLAN & DETAIL 7/ SD2.2

INDICATES: FRAMING MEMBER SIZE AND SPACING.
REFER TO FRAMING SCHEDULE FOR SPECIFIC INFORMATION.
REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

INDICATES: BLOCKED HORIZONTAL DIAPHRAGM w 2x4 FLAT BLOCKING. REFER TO DIAPHRAGM SCHEDULE FOR SHEATHING INFO, NAIL TYPE, & SPACING REQUIREMENTS. DEFAULT ROOF & FLOOR DIAPHRAGMS ARE R6 & F6 RESPECTIVELY, U.N.O. ON PLAN.

SITE JOIST SCHEDULE

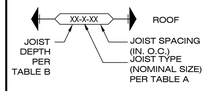


TABLE A

TYPE	NOMINAL SIZE/SPEC.	MANUF.
A	110	TJI
B	210	TJI
C	230	TJI
D	360	TJI
E	560	TJI
F	560D	TJI

REFER TO 'FLOOR JOIST SPECIFICATIONS' ON SHEET SN1 FOR MANUF ALT

TABLE B

JOIST DEPTH CALL OUT	ACTUAL DEPTH
12	11 7/8"
14	14
16	16

INDICATES FRAMING MEMBER SIZE AND SPACING. REFER TO FRAMING SCHEDULE FOR SPCIFIC INFORMATION. REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

APPARATUS BAY DIAPHRAGM PLAN

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	DEC'D	DATE	BENCH MARK
Contractor _____	04.02.25	LB	1	PC #1			
Inspector _____							
Date Completed _____							

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN HADIGOL, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
ROOF DIAPHRAGM PLAN

Drawing No. S3

Sheet ____ of ____

GYM HOLDOWN SCHEDULE

POST TO FOUNDATION CONNECTION AT BOTTOM OF SHEARWALL PER DTL SHEET SD1

PLAN ID	HOLDOWN	HOLDOWN POST
T4	HTT4	4x6 MIN
U5	HDU5	4x6 MIN
U8	HDU8	4x6 MIN
U11	HDU11	6x6 MIN

HOLDOWN PER PLAN & SCHEDULE — X

GEOTECHNICAL INFORMATION

1. REFER TO STRUCTURAL COVER SHEET (SCS) FOR ASSUMED SOIL VALUES OR VALUES BASED ON THE PROVIDED GEOTECHNICAL (SOILS) REPORT:
2. PRIOR TO REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT:
   a. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SOILS REPORT,
   b. THE FOOTINGS EXTEND TO THE PROPER DEPTH OR BEARING STRATA,
   c. UTILITY TRENCHES ARE PROPERLY BACKFILLED AND COMPACTED,
   d. AND THAT THE CONDITIONS FOUND MATCH THOSE ASSUMED IN THE SOILS REPORT.

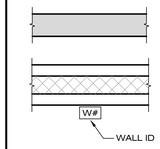
FOUNDATION NOTES

1. INSTALL HOLDOWN ANCHOR BOLTS PER DETAIL 7/SD1. PROVIDE AND INSTALL ALL U.S.P. OR SIMPSON LUMBER CONNECTORS (OR EQUAL) FOUNDATION HARDWARE PER MANUFACTURERS RECOMMENDATIONS. DEEPEN FOOTING WHERE NECESSARY TO PROVIDE ANCHOR EMBEDMENT AT HOLDOWN LOCATIONS.
2. REFER TO DETAIL 4/SD0 FOR FOR ANCHOR BOLT SPACING AND ANCHOR BOLT INSTALLATION.
3. REFER TO DETAIL PACKAGE FOR TYPICAL CONDITIONS NOT SPECIFICALLY CALLED OUT OR NOTED ON PLANS.
4. ALL DIMENSIONS SHALL BE PER THE CURRENT APPROVED STAMPED SET OF ARCHITECTURAL PLANS. OUR OFFICE SHOULD BE NOTIFIED IMMEDIATELY IF DISCREPANCIES EXIST BETWEEN THE ARCHITECTURAL & STRUCTURAL PLANS.
5. CONSTRUCT CONTINUOUS FOOTINGS AT CORNERS AND INTERSECTIONS PER DETAIL 2/SD0
6. FOUNDATION SIZES, DEPTHS, AND REINFORCEMENT SHOULD BE COORDINATED WITH THE OWNER/DEVELOPER'S SOILS ENGINEERS REPORT. SOILS ENGINEER REPORT MAY REQUIRE ADDITIONAL ITEMS NOT NOTED ON THE STRUCTURAL PLANS.
3. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR TOP OF STRUCTURAL CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, CURBS, DRAINS, OVERALL DIMENSIONS, AND LOCATIONS OF OPENINGS IN WALLS AND SLABS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. CENTER CONTINUOUS FOOTING UNDER WALLS U.N.O. CENTER PAD FOOTINGS BELOW COLUMNS U.N.O. ON PLAN.
4.

STRUCTURAL OBSERVATION REQUIREMENTS

STRUCTURAL OBSERVATION IS REQUIRED BY THE ENGINEER OF RECORD. OUR OFFICE SHOULD BE NOTIFIED TO PERFORM STRUCTURAL OBSERVATION AT THE FOLLOWING STAGES OF CONSTRUCTION:
1. PRIOR TO POUR OF CONCRETE TO OBSERVE REINFORCING & EMBEDS
2. PRIOR TO COVERING ANY COMPLETED STRUCTURAL MEMBER

FOUNDATION LEGEND & SYMBOLS

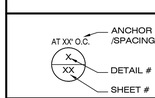


INDICATES: CONCRETE SLAB & FOOTING. FOOTING SIZE AND REINFORCING PER DETAIL SHEETS SD1.

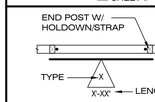
INDICATES: FULLY GROUTED CMU WALL w/ VERTICAL BARS AT 16" O.C. CENTERED IN WALL & #5 HORIZONTAL BARS AT 24" O.C. SEE ELEVATIONS AND DETAILS FOR ADDITIONAL INFORMATION. REFER TO SCHEDULE BELOW FOR WALL THICKNESS & VERTICAL REBAR SIZES

CMU WALL SCHEDULE

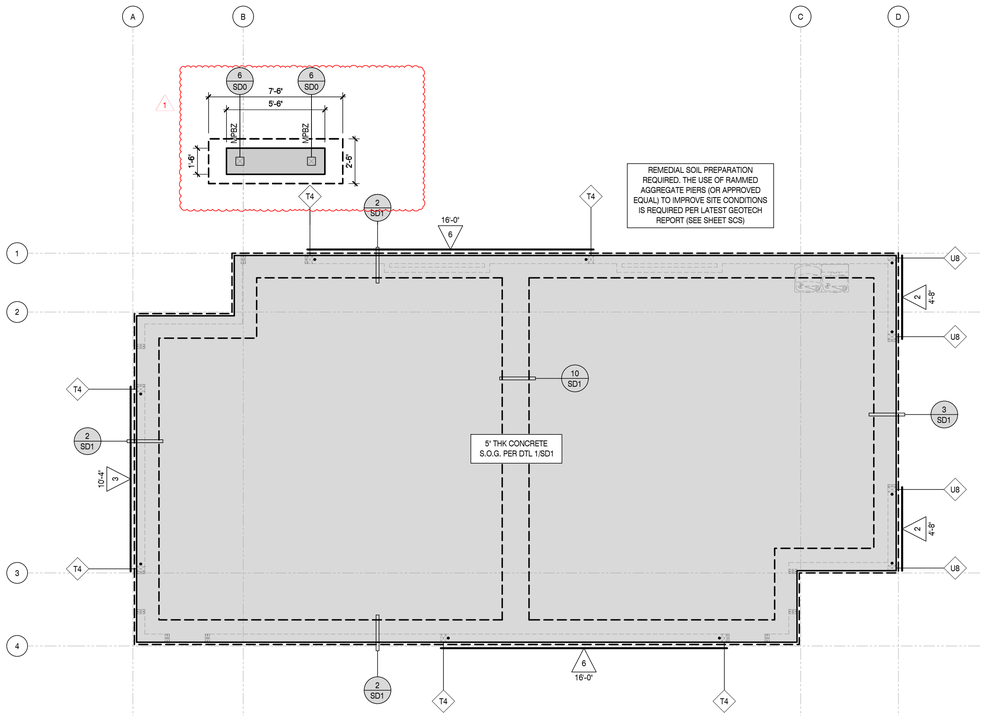
PLAN ID	WALL THICKNESS	VERTICAL REBAR SIZE & SPACING
W8	8"	#5 AT 16" O.C.
W10	10"	#6 AT 16" O.C.



INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL SHEET NUMBER FOR MORE INFORMATION. TEXT ABOVE BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL



INDICATES:
1. WOOD SHEAR WALL PANEL LOCATION PER PLAN INSTALLED FULL HEIGHT OF WALL
2. REFER TO DETAIL 5/SD2 SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS
3. PROVIDE POST AND HOLDOWN EACH END OF WALL AS INDICATED PER PLAN



GYM FOUNDATION PLAN

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TRD DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY.

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	BC'D	DATE	BENCH MARK
Contractor	04.02.25	LB	1	PC #1			
Inspector							
Date Completed							

SCALE
HORIZONTAL
VERTICAL

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

Date

R.C.E. No.

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASHTIANI, PE, PRINCIPAL CIVIL ENGINEER

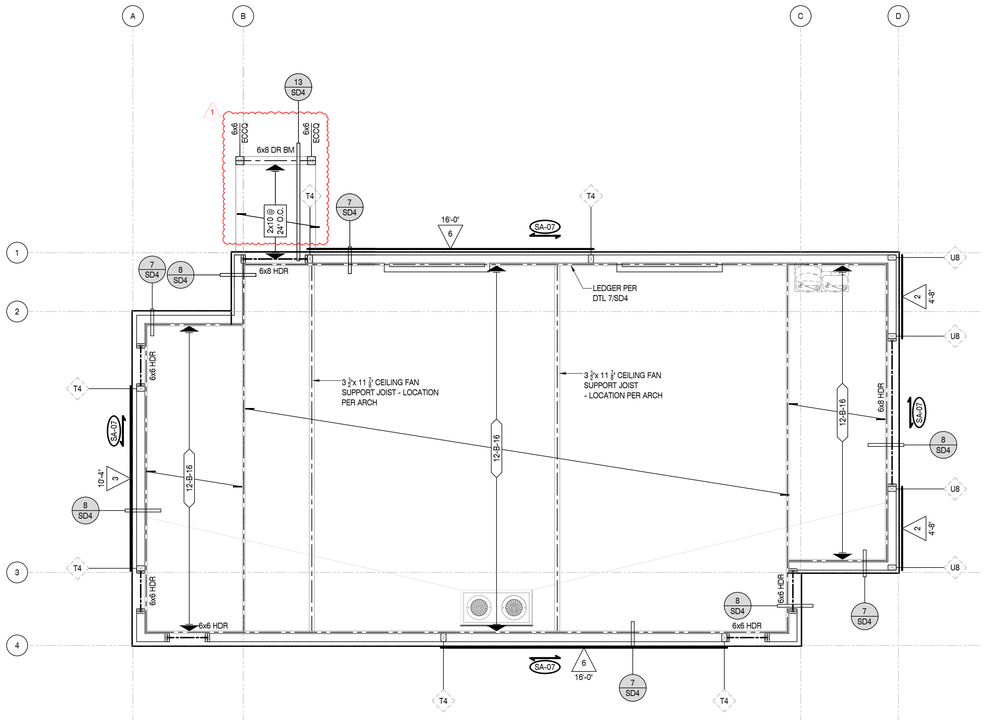
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GYM FOUNDATION PLAN

Drawing No. S4

Sheet ____ of ____



GYM ROOF FRAMING PLAN

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

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

TENSION / DRAG STRAP SCHEDULE

INDICATES: DRAG TIE STRAP PER PLAN AND STRAP DETAIL CONNECTION BELOW.

STRAPS PER SCHEDULE ON TABLE A — SX-(##) — STRAP DETAIL CONNECTION ON TABLE B

HOLDOWN OCCURS AT THAT LEVEL — X — X — HOLDOWN OCCURS BELOW PER PLAN

TABLE A - DRAG STRAPS			
PLAN ID	STRAP	MEMBER WIDTH	STRAP (TJI)
SA	(1) CS14	2x	MSTI26
SB	(2) CS14	2-2x	MSTI36
SC	CMST14	2-2x	MSTI48
SD	CMST12	2-2x	CMST14
T4	HTT4	2-2x OR 3 1/2"	-

TABLE B	
PLAN ID	DETAIL
7	7/SD2

POST TO FOUNDATION CONNECTION AT BOTTOM OF SHEARWALL PER DETAIL SHEET SD1		
PLAN ID	HOLDOWN	HOLDOWN POST
T4	HTT4	4x6 MIN
U5	HDU5	4x6 MIN
U8	HDU8	4x6 MIN
U11	HDU11	6x6 MIN

FRAMING NOTES

1. FOR DESIGN CRITERIA, REFER TO SHEET SCS, FOR GENERL NOTES, REFER TO SN SERIES SHEETS.
2. FOR FRAMING DETAILS, REFER TO SD SHEETS.
3. SPLICE ALL EXTERIOR WALL AND INTERIOR SHEAR WALL TOP PLATE BREAKS PER DETAIL 1/SD2.1, TYP.
4. ALL HEADERS ARE TO BE 6x6 MINIMUM U.N.O. ON PLAN.
5. REFER TO NON-BEARING HEADER SCHEDULE ON SHEET SD2 FOR HEADER SIZES AT ALL LOCATIONS NOT SHOWN ON THE FRAMING PLAN
6. ALL DIAPHRAGMS WILL BE BLOCKED DIAPHRAGMS. PER DTL 3/SD2 U.N.O. ON PLAN. REFER TO DIAPHRAGM PLAN SHEET S3 AND DIAPHRAGM SCHEDULE FOR MORE INFORMATION.
7. SEE ARCHITECTURAL DRAWINGS FOR TOP OF ROOF SHEATHING ELEVATIONS, TOP OF PARAPET ELEVATIONS, ROOF SLOPES, ROOF DRAINS, SCUPPERS, AND OVERFLOWS NOT INDICATED ON THE STRUCTURAL DRAWINGS.
8. SEE MECHANICAL DRAWINGS FOR LOCATIONS OF ROOF MOUNTED EQUIPMENT, ROOF SUSPENDED EQUIPMENT, AND ROOF OPENINGS FOR DUCTWORK AND VENTILATION NOT INDICATED ON THE STRUCTURAL DRAWINGS.
9. ROOFTOP MECHANICAL EQUIPMENT WEIGHTS WHEN INDICATED ON PLAN SHEETS OR DETAILS SHALL NOT BE EXCEEDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OR RECORD.
10. DIMENSIONS TO WALL FACES ARE TO FACE OF MASONRY UNLESS NOTED OTHERWISE.

FRAMING LEGEND & SYMBOLS

AT XX" O.C. — REQUIRED ANCHOR/SPACING
X — DETAIL #
XX — SHEET #

INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL SHEET NUMBER FOR MORE INFORMATION. TEXT ABOVE BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL

2x4 :
2x6 :

INDICATES 2x STUD WALL PER PLAN & DETAIL 1/SD2. COORDINATE STUD WALL SIZE WITH ARCH. PLANS.

XX (BXX)

INDICATES:
1. WALL OPENING HEADER PER FRAMING SCHEDULE ON THIS SHEET.
2. PROVIDE (1) 2x TRIMMER EACH SIDE U.N.O. ON PLAN OR IN DTL 1/SD2
3. PROVIDE KING STUDS EACH SIDE PER DETAIL 1/SD2 U.N.O. ON PLAN.
4. (BXX) INDICATES BEAM CALCULATION # FOUND IN THE CALCULATION PACKAGE

END POST W/ HOLDOWN/STRAP
TYPE — X — X-XX" — LENGTH

INDICATES:
1. WOOD SHEAR WALL PANEL LOCATION PER PLAN INSTALLED FULL HEIGHT OF WALL
2. REFER TO DETAIL 5/SD2 SHEAR WALL SCHEDULE FOR ADDITIONAL REQUIREMENTS
3. PROVIDE POST AND STRAP/HOLDOWN EACH END OF WALL AS INDICATED PER PLAN
4. AT UPPER FLOORS WHERE WALL SHEATHING DOES NOT EXTEND OVER OR EDGE NAIL TO FLOOR RIM PROVIDE SILL PLATE NAILING OR SCREWS PER DETAIL 5/SD2

INDICATES: DRAG TIE STRAP PER PLAN OR DETAIL SHOWN ON PLANS. MIN (1) CS14 U.N.O. ON PLAN

XX

INDICATES: MODULAR FRAMING MEMBER SIZE AND SPACING. REFER TO FRAMING SCHEDULE FOR SPECIFIC INFORMATION. REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

RXX.XB

INDICATES: BLOCKED HORIZONTAL DIAPHRAGM w 2x4 FLAT BLOCKING. REFER TO DIAPHRAGM SCHEDULE FOR SHEATHING INFO, NAIL TYPE, & SPACING REQUIREMENTS. DEFAULT ROOF & FLOOR DIAPHRAGMS ARE R6 & F6 RESPECTIVELY, U.N.O. ON PLAN.

SITE JOIST SCHEDULE

XX-X-XX — ROOF
XX-X-XX — FLOOR
JOIST DEPTH PER TABLE B
JOIST SPACING (IN. O.C.)
JOIST TYPE (NOMINAL SIZE) PER TABLE A

TABLE A

TYPE	NOMINAL SIZE/SPEC.	MANUF.
A	110	TJI
B	210	TJI
C	230	TJI
D	360	TJI
E	560	TJI
F	560D	TJI

REFER TO 'FLOOR JOIST SPECIFICATIONS' ON SHEET SN1 FOR MANUF ALT

TABLE B

JOIST DEPTH CALL OUT	ACTUAL DEPTH
12	11 7/8"
14	14
16	16

INDICATES FRAMING MEMBER SIZE AND SPACING. REFER TO FRAMING SCHEDULE FOR SPCIFIC INFORMATION. REFER TO PLANS FOR SPECIFIC MEMBER LAYOUT

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	BY	DATE	BENCH MARK
Contractor _____	04.02.25	LB	1	PC #1			
Inspector _____							
Date Completed _____							

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 Civil — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIRLOU, PE, PRINCIPAL CIVIL ENGINEER

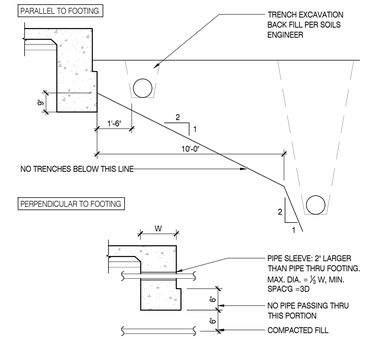
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GYM ROOF FRAMING PLAN

Drawing No. S5

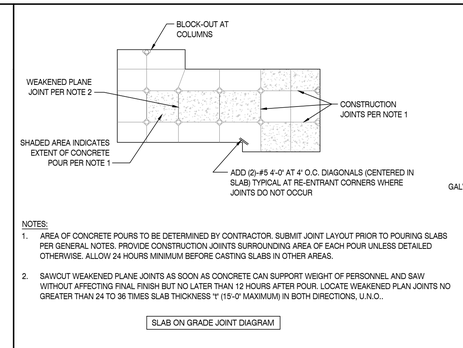
Sheet ____ of ____



STEM WALL & FOOTING DRAINAGE SPECIFICATIONS

5

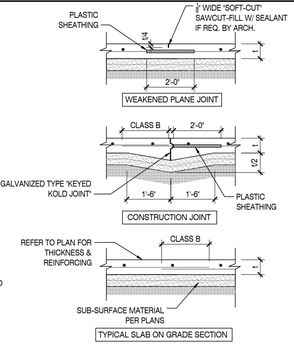
SCALE: N.T.S.



NOTES:

1. AREA OF CONCRETE POURS TO BE DETERMINED BY CONTRACTOR. SUBMIT JOINT LAYOUT PRIOR TO POURING SLABS PER GENERAL NOTES. PROVIDE CONSTRUCTION JOINTS SURROUNDING AREA OF EACH POUR UNLESS DETAILED OTHERWISE. ALLOW 24 HOURS MINIMUM BEFORE CASTING SLABS IN OTHER AREAS.
2. SAWCUT WEAKENED PLANE JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF PERSONNEL AND SAW WITHOUT AFFECTING FINAL FINISH BUT NO LATER THAN 12 HOURS AFTER POUR. LOCATE WEAKENED PLAN JOINTS NO GREATER THAN 24 TO 36 TIMES SLAB THICKNESS 't' (15'-0" MAXIMUM) IN BOTH DIRECTIONS, U.N.O..

SLAB ON GRADE JOINT DIAGRAM



TYPICAL SLAB ON GRADE SECTION

TYPICAL SLAB ON GRADE DETAILS

3

SCALE: N.T.S.

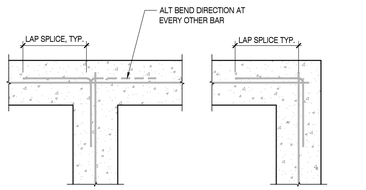
STANDARD DEVELOPMENT LENGTHS IN CONCRETE										
CASE 1: CONDITION A OR B										
	BAR POSITION	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
	TOP	24"	32"	39"	47"	69"	78"	88"	100"	110"
	BOTTOM	18"	24"	30"	36"	53"	60"	68"	77"	85"
	TOP	22"	29"	36"	43"	63"	72"	81"	91"	101"
	BOTTOM	17"	22"	28"	33"	48"	55"	62"	70"	78"
	TOP	19"	25"	31"	37"	54"	62"	70"	79"	87"
	BOTTOM	15"	19"	24"	29"	42"	48"	54"	61"	67"
	TOP	17"	23"	28"	34"	49"	56"	63"	71"	78"
	BOTTOM	13"	17"	22"	26"	38"	43"	48"	54"	60"
	TOP	16"	21"	26"	31"	45"	51"	57"	64"	71"
	BOTTOM	12"	16"	20"	24"	34"	39"	44"	50"	55"
	TOP	14"	19"	24"	28"	41"	47"	53"	60"	66"
	BOTTOM	12"	15"	18"	22"	32"	36"	41"	46"	51"
	TOP	14"	18"	22"	27"	39"	44"	50"	56"	62"
	BOTTOM	12"	14"	17"	21"	30"	34"	38"	43"	48"
CASE 2: ALL OTHER CONDITIONS										
	BAR POSITION	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
	TOP	36"	47"	59"	71"	103"	117"	132"	149"	165"
	BOTTOM	27"	36"	45"	54"	79"	90"	102"	115"	127"
	TOP	33"	43"	54"	65"	94"	107"	121"	136"	151"
	BOTTOM	25"	33"	42"	50"	72"	83"	93"	105"	116"
	TOP	28"	37"	47"	56"	81"	93"	105"	118"	131"
	BOTTOM	22"	29"	36"	43"	63"	72"	81"	91"	101"
	TOP	25"	34"	42"	50"	73"	83"	94"	106"	117"
	BOTTOM	20"	26"	32"	39"	56"	64"	72"	81"	90"
	TOP	23"	31"	38"	46"	67"	76"	86"	96"	107"
	BOTTOM	18"	24"	30"	35"	51"	59"	66"	74"	82"
	TOP	21"	28"	35"	42"	62"	70"	79"	89"	99"
	BOTTOM	17"	22"	27"	33"	48"	54"	61"	69"	76"
	TOP	20"	27"	33"	40"	58"	66"	74"	84"	93"
	BOTTOM	16"	21"	26"	31"	45"	51"	57"	64"	71"

STANDARD TENSION LAP SPLICE LENGTHS IN CONCRETE										
CASE 1: CONDITION A OR B										
CONCRETE STRENGTH	BAR POSITION	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
2,500 psi	TOP	31"	41"	51"	61"	89"	102"	115"	129"	143"
	BOTTOM	24"	32"	39"	47"	69"	78"	88"	100"	110"
3,000 psi	TOP	28"	38"	47"	56"	81"	93"	105"	118"	131"
	BOTTOM	22"	29"	36"	43"	63"	72"	81"	91"	101"
4,000 psi	TOP	25"	33"	41"	49"	71"	81"	91"	102"	114"
	BOTTOM	19"	25"	31"	37"	54"	62"	70"	79"	87"
5,000 psi	TOP	22"	29"	36"	44"	63"	72"	81"	92"	102"
	BOTTOM	17"	23"	28"	34"	49"	56"	63"	71"	78"
6,000 psi	TOP	20"	27"	33"	40"	58"	66"	74"	84"	93"
	BOTTOM	16"	21"	26"	31"	45"	51"	57"	64"	71"
7,000 psi	TOP	19"	25"	31"	37"	54"	61"	69"	77"	86"
	BOTTOM	14"	19"	24"	28"	41"	47"	53"	60"	66"
8,000 psi	TOP	18"	23"	29"	35"	50"	57"	64"	72"	80"
	BOTTOM	14"	18"	22"	27"	39"	44"	50"	56"	62"
CASE 2: ALL OTHER CONDITIONS										
CONCRETE STRENGTH	BAR POSITION	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
2,500 psi	TOP	46"	61"	77"	92"	134"	153"	172"	194"	215"
	BOTTOM	36"	47"	59"	71"	103"	117"	132"	149"	165"
3,000 psi	TOP	42"	56"	70"	84"	122"	139"	157"	177"	196"
	BOTTOM	33"	43"	54"	65"	94"	107"	121"	136"	151"
4,000 psi	TOP	37"	49"	61"	73"	106"	121"	136"	153"	170"
	BOTTOM	28"	37"	47"	56"	81"	93"	105"	118"	131"
5,000 psi	TOP	33"	44"	54"	65"	95"	108"	122"	137"	152"
	BOTTOM	25"	34"	42"	50"	73"	83"	94"	106"	117"
6,000 psi	TOP	30"	40"	50"	59"	86"	99"	111"	125"	139"
	BOTTOM	23"	31"	38"	46"	67"	76"	86"	96"	107"
7,000 psi	TOP	28"	37"	46"	55"	80"	91"	103"	116"	129"
	BOTTOM	21"	28"	35"	42"	62"	70"	79"	89"	99"
8,000 psi	TOP	26"	35"	43"	52"	75"	86"	96"	108"	120"
	BOTTOM	20"	27"	33"	40"	58"	66"	74"	84"	93"

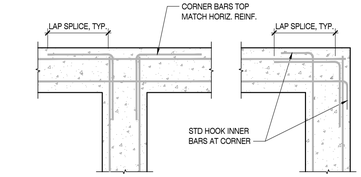
STANDARD HOOK DEVELOPMENT LENGTHS IN CONCRETE										
CONCRETE STRENGTH	BAR SIZE									
	#3	#4	#5	#6	#7	#8	#9	#10	#11
2,500 psi	9"	12"	15"	18"	21"	24"	28"	31"	43"
3,000 psi	9"	11"	14"	17"	20"	22"	25"	28"	39"
4,000 psi	8"	10"	12"	15"	17"	19"	22"	25"	34"
5000 psi	7"	9"	11"	13"	15"	17"	20"	22"	30"
6,000 psi	6"	8"	10"	12"	14"	16"	18"	20"	28"
7,000 psi	6"	8"	9"	11"	13"	15"	17"	19"	26"
8,000 psi	6"	7"	9"	11"	12"	14"	16"	18"	24"

NOTES:

1. TABULATED VALUES ARE BASED ON A MINIMUM YIELD STRENGTH OF 60,000 PSI FOR ALL REINFORCING AND NORMAL WEIGHT CONCRETE.
2. FOR GRADE 75 REINFORCING MULTIPY THE TABULATED VALUES BY 1.25'
3. FOR LIGHTWEIGHT CONCRETE MULTIPLY THE TABULATED VALUES BY 1.3
4. "TOP" INDICATES A TOP BAR WHICH ARE DEFINED AS HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR. ALL OTHER BARS, INCLUDING VERTICAL REBAR, CAN BE CONSIDERED BOTTOM REBAR.
5. LENGTHS ARE FOR UNCOATED BARS ONLY.
6. CONDITION A: a) CLEAR SPACING OF BARS = d_b OR GREATER
   b) CLEAR COVER = d_b OR GREATER
   c) STIRRUPS OR TIES THROUGHOUT SPLICE LENGTH
7. CONDITION B: a) CLEAR SPACING OF BARS = 2 d_b OR GREATER
   b) CLEAR COVER = d_b OR GREATER
   c) NO STIRRUPS OR TIES
8. FOR HOOK DEVELOPMENT LENGTHS OF 90° HOOKS HAVING SIDE COVER OF 2.5" OR GREATER TO THE BAR AND END COVER OF 2" OR GREATER TO THE HOOK, MULTIPLY THE TABULATED VALUES BY 0.70.



ONE LAYER OF REINFORCING



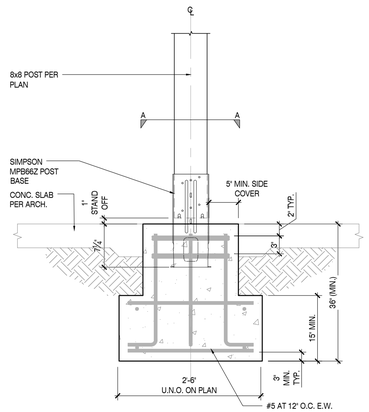
NOTE: SEE TYPICAL CONCRETE REINFORCING BAR DETAIL FOR LAP SPLICE & STD HOOK LENGTHS

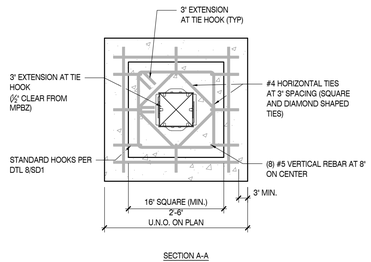
TWO LAYERS OF REINFORCING

TYPICAL REINFORCING AT CONCRETE FOOTING & WALL INTERSECTIONS & CORNERS

2

SCALE: N.T.S.



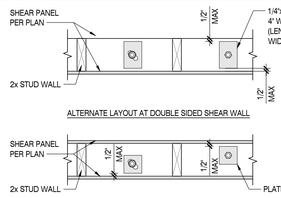


SECTION A-A

MPBZ 6x POST FOOTING

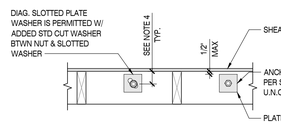
6

SCALE: N.T.S.



ALTERNATE LAYOUT AT DOUBLE SIDED SHEAR WALL

LAYOUT AT DOUBLE SIDED SHEAR WALL



LAYOUT AT SINGLE SIDED SHEAR WALL

SHEAR WALL TYPE	FOUNDATION ATTACHMENT HARDWARE ALTERNATES MAXIMUM SPACING (INCHES ON CENTER)			
	SINGLE-SIDED SHEAR WALL		DOUBLE-SIDED SHEAR WALL	
	5/8" Ø A.B.	5/8"Øx8" TITEN HD (ICC-ESR-2713)	5/8" Ø A.B.	5/8"Øx8" TITEN HD (ICC-ESR-2713)
NON-SHEAR	72"	72"	72"	72"
6	48"	40"	24"	20"
4	32"	27"	16"	12"
3	24"	21"	12"	10"
2	18"	16"	9"	8"
2A	16"	14"	8"	7"
2B	14"	12"	7"	6"

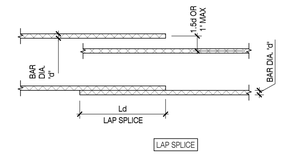
NOTES:

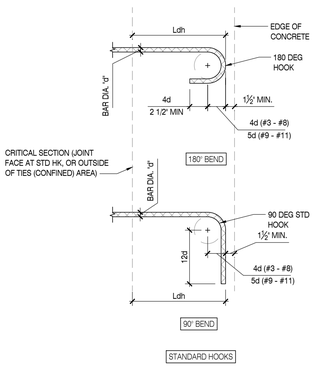
1. EMBEDMENT: ANCHOR BOLTS EMBEDMENT SHALL BE 7" EMBEDMENT INTO CONCRETE. EMBEDMENT SHALL BE FROM TOP OF SLAB AT MONOPOUR. EMBEDMENT SHALL BE FROM COLD-JOINT AT DUAL POUR CONDITIONS. AT CURB/WALL CONDITION, EMBEDMENT SHALL BE FROM TOP OF CURB/WALL.
2. BOLT NUT & WASHER: ANCHOR BOLTS SHALL BE EITHER: L-BOLTS OR HEADED BOLTS. PROVIDE PROPER NUT & STANDARD (ANSI) 1 ¼" Ø x 0.100" THICK CUT WASHERS AT ALL BEARING, AND NON-SHEAR WALL ANCHOR BOLT LOCATIONS. PROVIDE STANDARD (ANSI) 1 ¼" Ø x 0.100" THICK CUT WASHERS AND 3" x 3" x 0.229" THICK ANGLE SLOTTED PLATE WASHER AT ALL SHEAR WALL ANCHOR BOLT LOCATIONS.
3. MINIMUM ANCHORS: MINIMUM (2) ANCHOR BOLTS PER PIECE OF SILL PLATE. ANCHOR BOLTS SHALL BE LOCATED WITHIN 7" MIN OR 12" MAX FROM THE END OF ANY SILL PLATE BREAK.
4. EDGE & END DISTANCE: ANCHOR BOLTS SHALL MAINTAIN A MINIMUM 1-¾" EDGE OF CONCRETE DISTANCE & 1" EDGE OF SILL PLATE DISTANCE. SQUARE WASHER SHALL BE MAXIMUM ½" DISTANCE FROM EDGE OF SILL PLATE ON SHEAR SIDE.

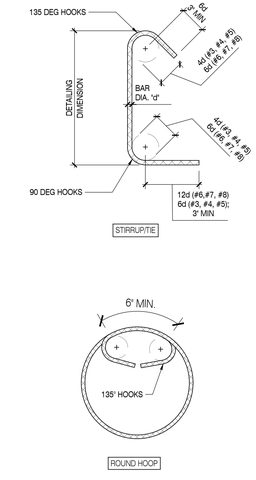
TYPICAL SILL PLATE ANCHOR BOLT SPECIFICATIONS

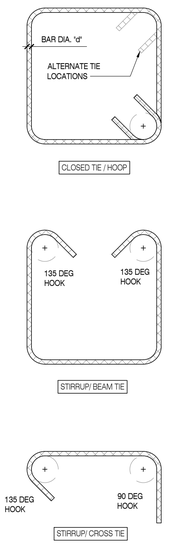
4

SCALE: N.T.S.









TYPICAL CONCRETE REINFORCING BAR DETAILS

1

SCALE: N.T.S.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

_____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASHTIANI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

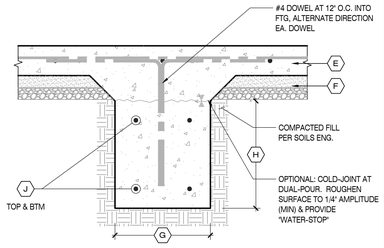
CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GENERAL FOUNDATION DETAILS

Drawing No. SD0

Sheet ____ of ____

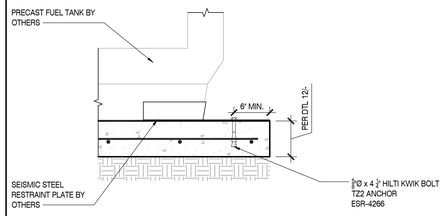
THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE ARCHITECT. © COPYRIGHT 2025



TIE BEAM

SCALE: N.T.S.

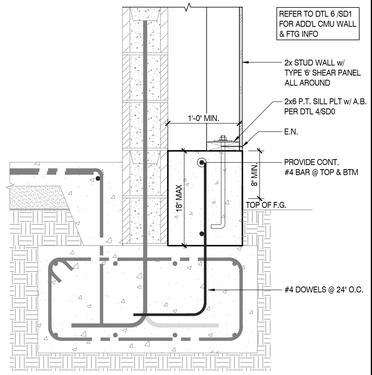
10



FUEL TANK TO CONCRETE PAD ANCHOR CONNECTION

SCALE: N.T.S.

11

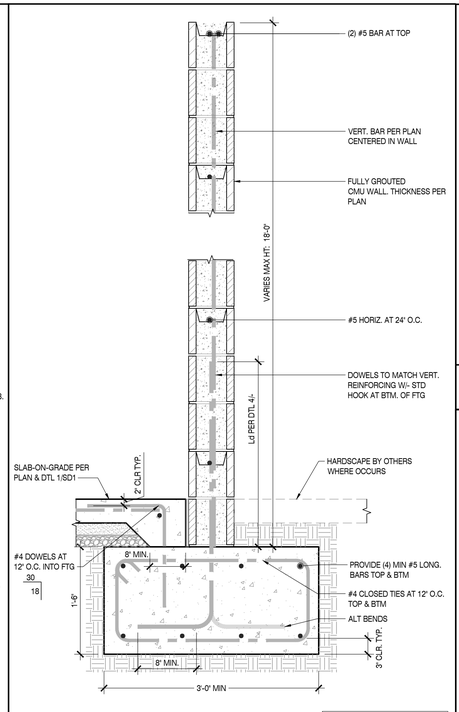


REMEDIAL GRADING & GROUND IMPROVEMENT REQUIRED

EXTERIOR CMU FOOTING WITH WOOD STUD FURRING WALL

SCALE: N.T.S.

8

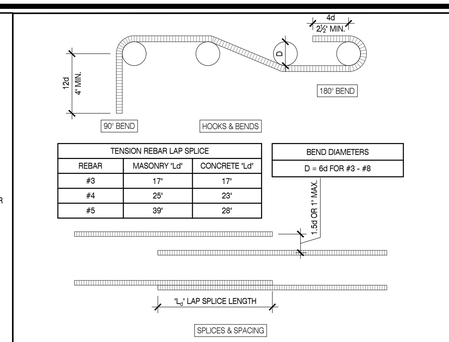


REMEDIAL GRADING & GROUND IMPROVEMENT REQUIRED

CMU WALL & FOOTING SECTION

SCALE: N.T.S.

6



TENSION REBAR LAP SPLICE		
REBAR	MASONRY 'Ld'	CONCRETE 'Ld'
#3	17"	17"
#4	25"	23"
#5	39"	28"

BEND DIAMETERS
D = 6d FOR #3 - #8

REINFORCING BAR DETAIL

SCALE: N.T.S.

4

SLAB ON GRADE SPECIFICATIONS - LOW EXPANSION POTENTIAL SOIL		
	LABEL	SPECIFICATION
SLAB ON GRADE	E	6" THK SLAB w/ #4 AT 12" O.C.E.W.
	F	15 MIL VAPOR RETARDER INSTALLED OVER 4" THICK CLEAN FREE DRAINING GRAVEL OR 4" OF CLEAN SAND PER GEOTECH RECOMMENDATIONS

DRAINAGE PER ARCH OR GEOTECH TYPICAL.

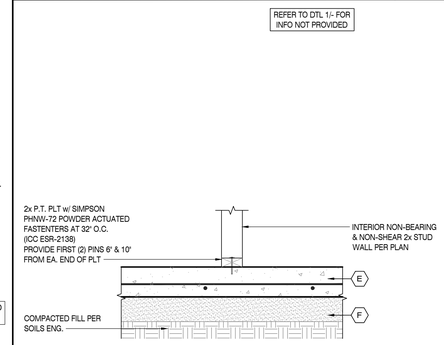
SPECS FOR SLAB ON GRADE FOUNDATION		
	LABEL	SPECIFICATION
FOOTINGS	G	15"
	H	24" MIN
	J	(2) #5 TOP & BTM

REMEDIAL SOIL PREPARATION REQUIRED. REFER TO LATEST GEOTECH REPORT FOR RECOCOMENDATIONS. THE USE OF STONE COLUMNS TO IMPROVE SITE CONDITIONS IS REQUIRED PER LATEST GEOTECH REPORT

SLAB ON GRADE, STEM WALL, & FOOTING DRAINAGE SPECIFICATIONS

SCALE: N.T.S.

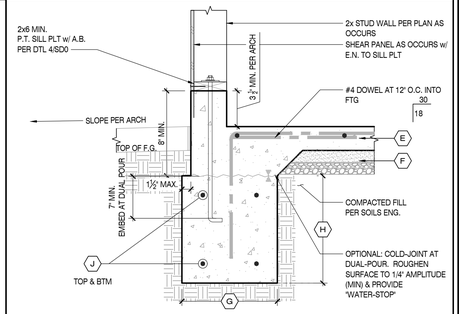
1



SLAB ON GRADE, STEM WALL, & FOOTING DRAINAGE SPECIFICATIONS

SCALE: N.T.S.

5

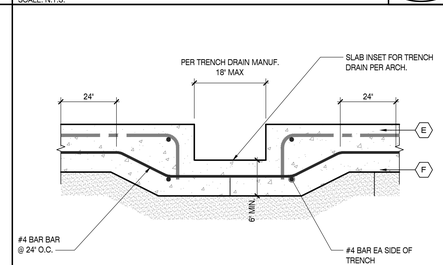


REMEDIAL GRADING & GROUND IMPROVEMENT REQUIRED

TYPICAL GYM FOOTING

SCALE: N.T.S.

2



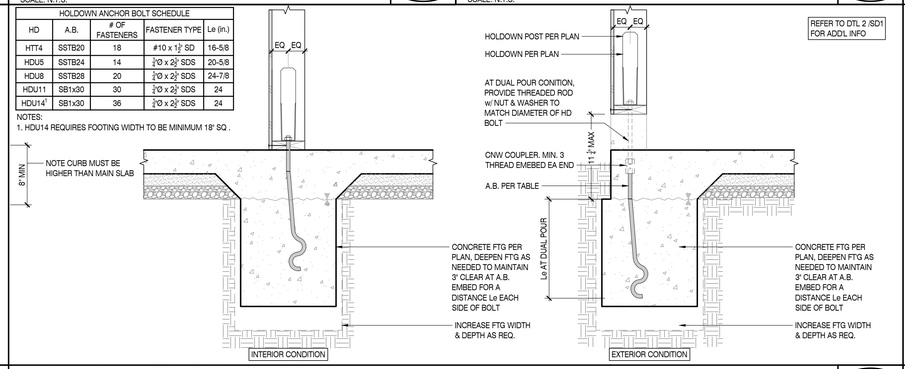
CONCRETE SLAB AT TRENCH DRAIN

SCALE: N.T.S.

9

HOLDOWN ANCHOR BOLT SCHEDULE				
HD	A.B.	# OF FASTENERS	FASTENER TYPE	Le (in.)
HTT4	SSTB20	18	#10 x 1½" SD	16-5/8
HDU5	SSTB24	14	⅞"Ø x 2½" SDS	20-5/8
HDU8	SSTB28	20	⅞"Ø x 2½" SDS	24-7/8
HDU11	SB1x30	30	⅞"Ø x 2½" SDS	24
HDU14[1]	SB1x30	36	⅞"Ø x 2½" SDS	24

NOTES:
1. HDU14 REQUIRES FOOTING WIDTH TO BE MINIMUM 18" SQ .

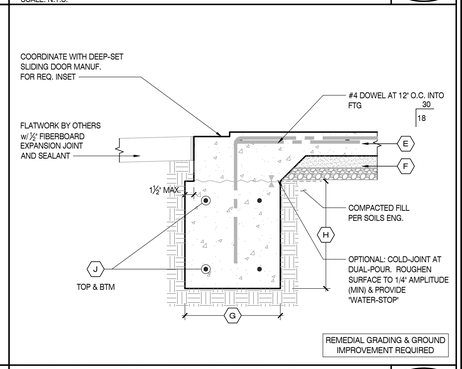


REFER TO DTL 2 /SD1 FOR ADDL INFO

TYPICAL HOLDOWN AT FOUNDATION CONNECTION

SCALE: N.T.S.

7



REMEDIAL GRADING & GROUND IMPROVEMENT REQUIRED

TYPICAL EXTERIOR GYM FOOTING AT OPENING

SCALE: N.T.S.

3

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY.

APPROVED BY: _____ NAME: _____ DATE: _____

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	DATE
Contractor _____	04.02.25	LB	1	PC #1	
Inspector _____					
Date Completed _____					

BENCH MARK

SCALE: horizontal / vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — GREGORY T. POWELL — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN KADEZADEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

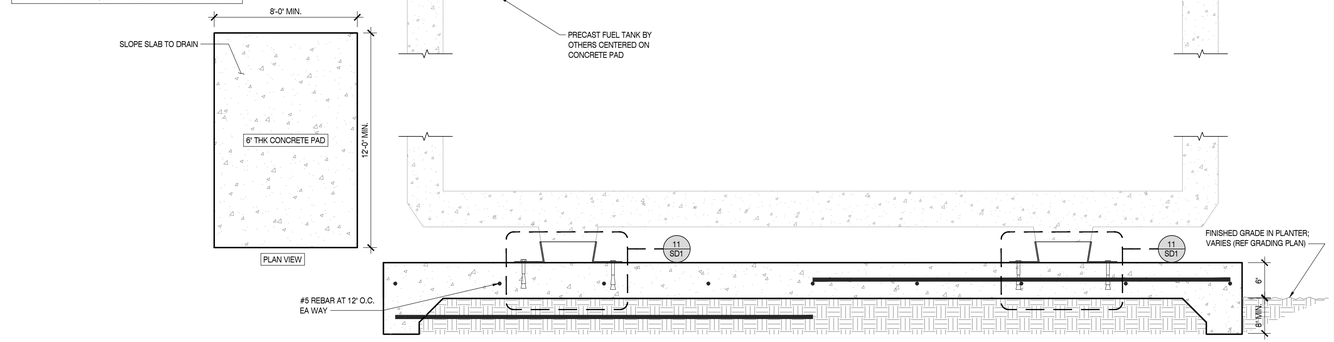
FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
FOUNDATION DETAILS

Drawing No. SD1

Sheet ____ of ____

THE ARCHITECT'S AND ENGINEER'S DRAWINGS, SPECIFICATIONS AND THE IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND ENGINEER AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON AND IN CONNECTION WITH THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR DRAWINGS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN PERMISSION OF THE ARCHITECT AND ENGINEER.

REMEDIAL GRADING AND GROUND IMPROVEMENT IS RECOMMENDED TO MITIGATE SETTLEMENT AND LIQUEFACTION RISKS. THE EXTENT AND METHOD OF REMEDIATION SHALL BE DETERMINED AT THE OWNER'S DISCRETION, WITH FINAL DESIGN AND IMPLEMENTATION TO BE EVALUATED BY A QUALIFIED GEOTECHNICAL ENGINEER.

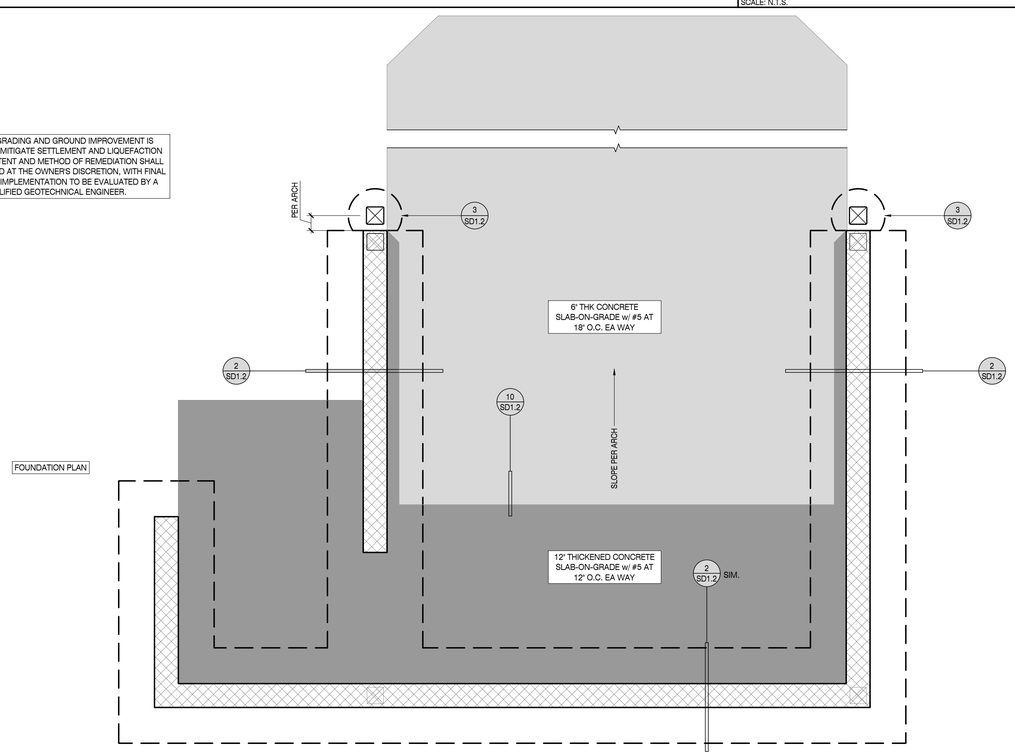


FUEL TANK CONCRETE PAD

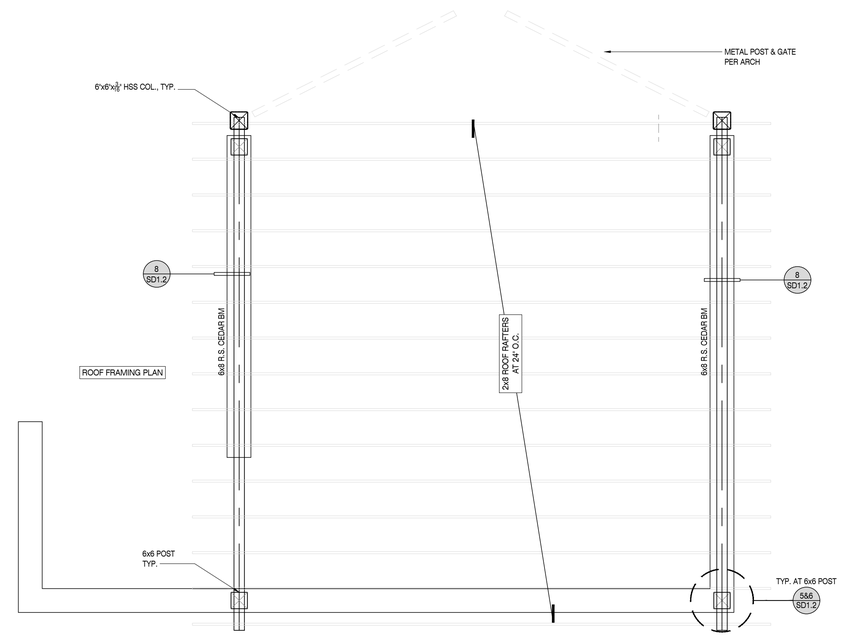
SCALE: N.T.S.

2

REMEDIAL GRADING AND GROUND IMPROVEMENT IS REQUIRED TO MITIGATE SETTLEMENT AND LIQUEFACTION RISKS. THE EXTENT AND METHOD OF REMEDIATION SHALL BE DETERMINED AT THE OWNER'S DISCRETION, WITH FINAL DESIGN AND IMPLEMENTATION TO BE EVALUATED BY A QUALIFIED GEOTECHNICAL ENGINEER.



FOUNDATION PLAN



ROOF FRAMING PLAN

CMU WALL ENCLOSURE PLAN VIEW

1

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TEL: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TRDESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079
BUILDING AND SAFETY
REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY
APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE: horizontal _____ vertical _____

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of: _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEBILI, PE, PRINCIPAL CIVIL ENGINEER

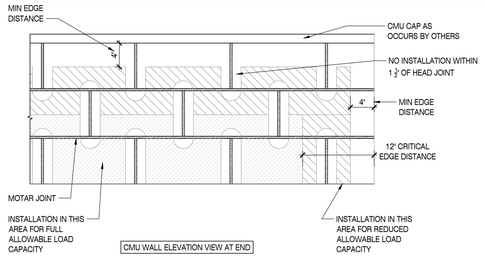
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
TRASH ENCLOSURE PLANS

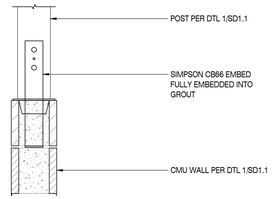
Drawing No. SD1.1

Sheet ____ of ____



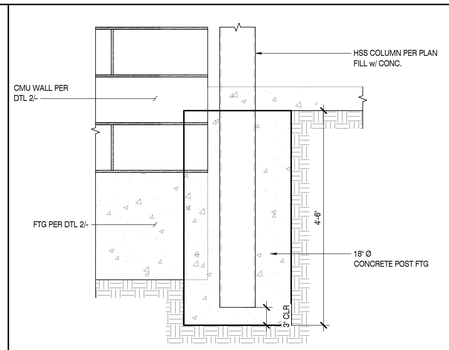
ACCEPTABLE LOCATIONS (SHADED AREAS) FOR ANCHORS INTO GROUT FILLED CONCRETE MASONRY PER ESR30-56 — 9

SCALE: N.T.S.



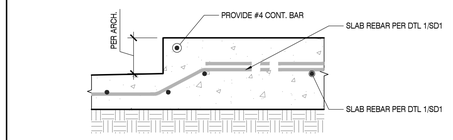
POST TO TOP OF CMU WALL CONNECTION — 6

SCALE: N.T.S.



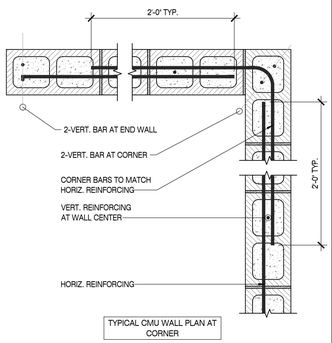
GATE POST FOOTING — 3

SCALE: N.T.S.



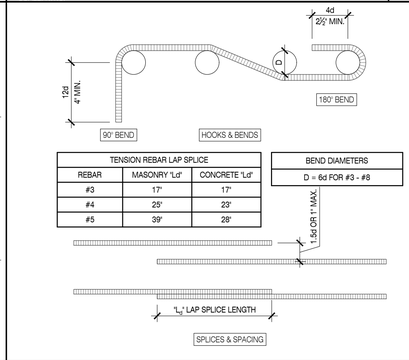
SLAB STEP — 1

SCALE: N.T.S.



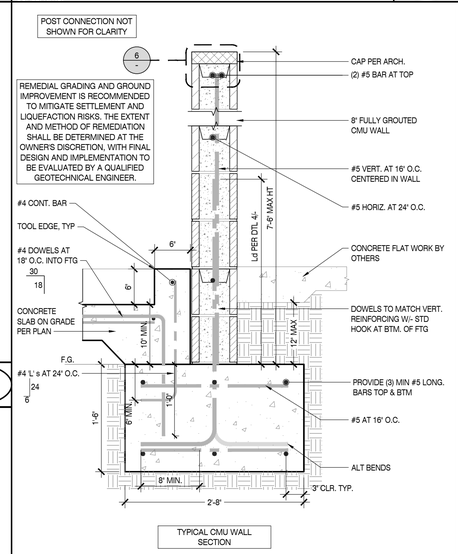
CMU WALL CORNER DETAIL — 7

SCALE: N.T.S.



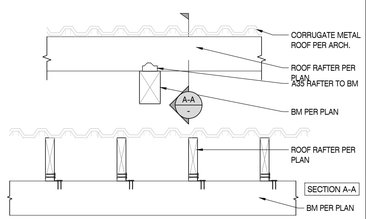
REINFORCING BAR DETAIL — 4

SCALE: N.T.S.



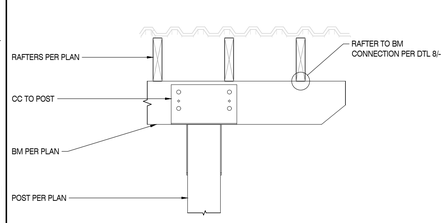
TRASH ENCLOSURE WALL SECTION — 2

SCALE: N.T.S.



ROOF JOISTS TO DROP BEAM SUPPORT CONNECTION — 8

SCALE: N.T.S.



POST TO BEAM CONNECTION — 5

SCALE: N.T.S.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY.

APPROVED BY: _____ NAME: _____ DATE: _____

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	CHK'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN HADIGHI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
TRASH ENCLOSURE DETAILS

Drawing No. SD1.2

Sheet ____ of ____

SHEAR WALL FRAMING & SCHEDULE

SCALE: N.T.S.

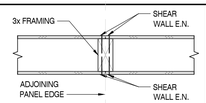
5

VERTICAL WOOD FRAMED SHEAR WALL SCHEDULE - 2022 CBC / AF&PA SDPWS-2021 - SEISMIC DESIGN CATEGORY D, E & F

MARK	WOOD STRUCTURAL PANEL			PANEL NAILING			SHEAR WALL SILL PLATE ATTACHMENT WHEN SHT'G DOES NOT EXTEND AND EDGE NAIL TO FLOOR RIM			FRAMING MEMBER THICKNESS AT ADJOINING PANEL EDGES	ASD CAPACITY (PLF) (DOUGLAS FIR)	
	THICK (IN)	GRADE RATING	SPAN RATING	NAIL SIZE	EDGE NAIL ON CENTER SPACING	FIELD NAIL ON CENTER SPACING	NOMINAL PLATE THICKNESS	TO WOOD FRAMING			SEISMIC	WIND
								SHEAR WALL SILL PLATE TO RIM: ½"Ø SDS SCREW O.C. SPACING[7]	MIN. RIM/BLK THK. (in)			
6	3/8	SHEATHING	24/0	8d	6"	12"	2x	12"	1.5	2x	260	365
4	3/8	SHEATHING	24/0	8d	4"	12"	2x	8"	1.5	2x	350	532
3	3/8	SHEATHING	24/0	8d	3"	12"	2x	6"	1.5	3x	490	685
2	3/8	SHEATHING	24/0	8d	2"	12"	2x	4"	1.5	3x	640	895
2A	3/8	STRUCTURAL I	24/0	8d	2"	12"	2x	4"	1.5	3x	730	1022
2B	15/32	STRUCTURAL I	32/16	10d	2"	12"	2x	3"	1.5	3x	870	1217

SHEAR WALL NOTES:

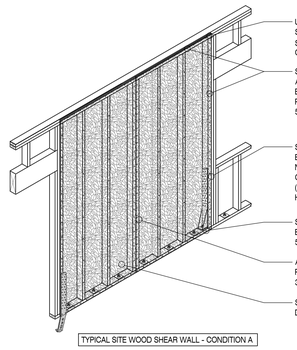
1. PANEL NAILS - MAY BE EITHER COMMON OR GALVANIZED BOX. GALVANIZED NAILS ARE REQUIRED WHEN PENETRATING PRESSURE TREATED LUMBER THAT CONTAINS TREATMENTS OTHER THAN BORATE.
2. PANEL RATING - WOOD PANELS MAY CONSIST OR EITHER OSB OR 5-PLY PLYWOOD WITH A MINIMUM EXPOSURE 1 RATING.
3. STUD SPACING - 2x WOOD STUDS AT SHEAR WALL SHALL BE SPACED A MAXIMUM 16" ON CENTER.
4. PANEL BREAKS - ALL PANELS EDGES SHALL BE 2x BLOCKED IF OCCURS.
5. STAGGERED NAILS - ALL NAILING AT 3" O.C. OR CLOSER SHALL BE STAGGERED.
6. SILL PLATE ANCHOR BOLT WASHERS - SHALL BE 0.229" x 3" x 3" STEEL PLATE WASHERS WITH A DIAGONALLY SLOTTED HOLE NO LARGER THAN 3/16" GREATER THAN THE BOLT DIAMETER OR 1 ½" MAXIMUM. THE WASHER SHALL BE PLACED BETWEEN THE NUT AND SILL PLATE AND SHALL NOT BE OFFSET BY MORE THAN ½" OF THE EDGE OF THE SILL PLATE ON THE SIDE WITH SHEATHING ATTACHMENT.
7. DOUBLE SIDED SHEAR WALLS - MEMBERS SHALL BE 3x AT ALL ADJOINING PANEL EDGES AND NAILS SHALL BE STAGGERED ON EACH SIDE OF THE PANEL BREAK ON EACH SIDE OF THE ADJOINING MEMBER. PROVIDE 3x SILL PLATES WHERE EDGE NAIL IS 3" OR LESS (16d NAILING SHALL NOT BE USED WITH 3x SILL PLATES). FASTENERS/HARDWARE PER THE SILL PLATE FASTENER SPACING SHALL BE PROVIDED IN TWO ROWS.
8. SDS SCREWS - SDS SCREWS SHALL HAVE A MINIMUM 2 ½" PENETRATION INTO THE RIM/BLOCKING. APPROPRIATE SCREW LENGTHS SHALL BE USED.



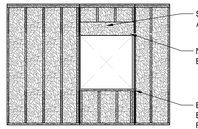
DOUBLE SIDED SHEAR WALL PANEL FRAMING

ALLOWABLE SHEAR WALL PENETRATIONS

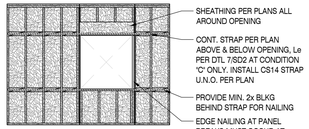
1. HOLES UP TO 5" SQ. DO NOT REQUIRE BLK'G & E.N.
2. HOLES FROM 5" SQ. TO 16" SQ. REQUIRE BLK'G & E.N.
3. HOLES LARGER THAN 16" SQ. ARE NOT ALLOWED.
4. HOLE SIZE INCLUDES THE LENGTH OF THE OVERCUT.
5. MAX. ACCUMULATED LENGTH OF OPENINGS SHALL NOT EXCEED 20% OF THE WALL LENGTH.
6. OPENING MUST BE A MIN. 12" FROM SILL PLATE, TOP PLATES & END POSTS.
7. RECOMMEND CIRCULAR BORED HOLES OR RADIUS CORNER CUTS.
8. END POSTS SHOULD NOT BE CUT FOR ANY REASON. STUDS & TOP PLATE MAY BE NOTCHED PER TYPICAL DETAIL.



TYPICAL SITE WOOD SHEAR WALL - CONDITION A



PERFORATED SHEAR WALL - CONDITION B

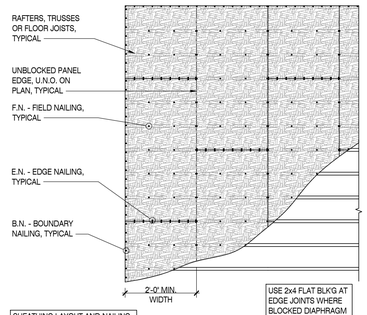


PERFORATED SHEAR WALL - CONDITION C

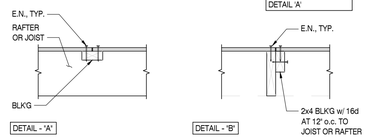
HORIZONTAL DIAPHRAGM LAYOUT AND NAILING

SCALE: N.T.S.

2



SHEATHING LAYOUT AND NAILING



NOTES:

1. RUN LONG DIMENSION OF SHEATHING ACROSS (PERPENDICULAR TO) JOIST AND RAFTERS.
2. STAGGER END JOINTS 2'-0" MINIMUM.
3. BOUNDARY NAILING APPLIES TO PERIMETER PLATE LINES, CHORDS, TIES, AND AS CALLED FOR ON DRAWINGS.
4. SEE PLANS FOR NAILING AT BLOCKED DIAPHRAGMS.
5. NAILS SHALL HAVE ⅜" MIN. EDGE DISTANCE.
6. ALL JOISTS AND RAFTERS SHALL BE LAID OUT IN 4'-0" MODULE TO COINCIDE WITH THE SHEATHING.
7. SEE DETAIL 'B' FOR FRAMING WHERE SHEATHING JOINTS ARE OFFSET DUE TO RAFTER OR JOIST LAP SPLICES.
8. PROVIDE A ⅛" GAP BETWEEN ALL PANEL EDGES TYPICAL.

TYPICAL WOOD STUD WALL FRAMING

SCALE: N.T.S.

1

MODULAR NON-BEARING HEADER SCHEDULE

HEADER SIZE	MAXIMUM SPAN (5'-0" WALL ABOVE)	MAXIMUM SPAN (10'-0" WALL ABOVE)
2x4 FLAT	3'-0"	--
2-2x4 OR 4x4 STD & BTR	6'-6"	4'-6"
2- 2x6 OR 4x6 DF NO. 2	10'-0"	9'-6"
2-2x8 OR 4x8 DF NO. 2	12'-0"	12'-0"

TYPICAL BEARING WALL JAMB SCHEDULE - 2 STORY BUILDINGS

LEVEL	MAX. HEADER SPAN	4" STUD WALLS		6" STUD WALL	
		TRIMMER	KING	TRIMMER	KING
LEVEL 2	3'-6"	2x4	2x4	1-2x6	1-2x6
	5'-6"	2x4	2x4	1-2x6	1-2x6
	7'-6"	2-2x4	2-2x4	1-2x6	2-2x6
	9'-6"	2-2x4	2-2x4	2-2x6	2-2x6
LEVEL 1	3'-6"	2x4	2x4	1-2x6	1-2x6
	5'-6"	2x4	2-2x4	1-2x6	2-2x6
	7'-6"	2-2x4	2-2x4	1-2x6	2-2x6
	9'-6"	2-2x4	2-2x4	2-2x6	2-2x6

KING STUD / POST REQUIREMENTS

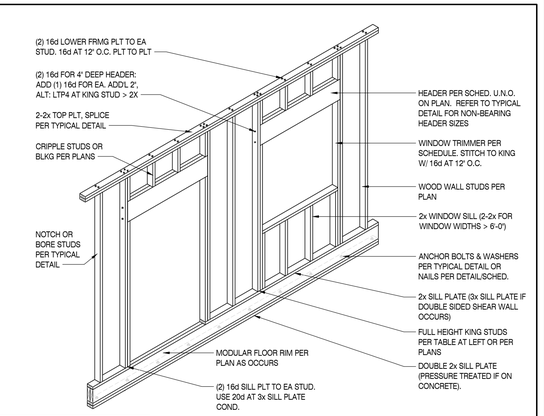
WALL WIDTH	*WIDTH OF WDW/DOOR	# KING STUDS	ALT: POST	***NAILS (PLATE TO KING STUD/POST)
3½"	0-7'	(1) 2x4	--	(3)-16d (20d AT 3x SILL)
	7'-14'	(2) 2x4	4x4	(6)-16d (20d AT 3x SILL)
	14'-18'	(3) 2x4	4x6	(9)-16d (20d AT 3x SILL)
5½"	0'-9'	(1) 2x6	--	(4)-16d (20d AT 3x SILL)
	9'-17'	(2) 2x6	4x6	(8)-16d (20d AT 3x SILL)

* WIDTH IS THE DISTANCE BTW KING STUDS AT EACH SIDE OF WINDOW/DOOR.
** (1) 2x KING STUD REQ'D WHEN FULL HEIGHT HARDY/SIMPSON PANEL IS ADJACENT TO WDW/DOOR, SCREW STUD TO HARDY.
*** NAILS SHOULD BE SPREAD EVENLY TO ALL STUDS OR ALL INTO POST, AT POST CONDITION

WOOD STUD SIZE TABLE

WALL WIDTH	WALL HEIGHT	STUD SIZE AND SPACING
3.5"	< 10'	2x4 AT 16" O.C.
	< 20'	NOT APPLICABLE
5.5"	< 10'	2x6 AT 16" O.C.
	< 20'	2x6 AT 16" O.C.

1. INTERIOR NON-BEARING WALLS MAY USE A STUD SPACING OF 24" ON CENTER.
2. THIS TABLE APPLIES TO STUD WALLS SUPPORTING A MAXIMUM OF (1) FLOOR AND (1) ROOF. THE PLANS SHOULD BE CONSULTED FOR ALTERNATE CONDITIONS.



ALL TYPICAL FRAMING SHALL CONFORM TO THE CONVENTIONAL REQUIREMENTS OF THE GOVERNING BUILDING CODE

NOTES:

1. HEADER SPAN IS THE DISTANCE BETWEEN THE TRIMMERS
2. (1) 2x KING STUD REQ'D WHEN FULL HEIGHT HARDY/SIMPSON PANEL IS ADJACENT TO WDW/DOOR, SCREW STUD TO HARDY.

DIAPHRAGM NAILING DIAGRAM

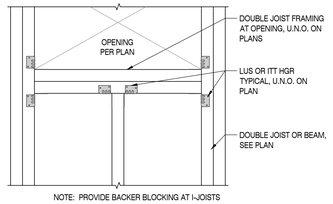
SCALE: N.T.S.

6

NOTCHED OR DRILLED SOLID JOISTS

SCALE: N.T.S.

4



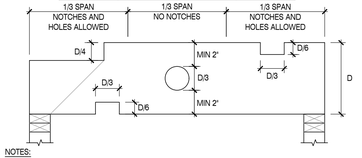
NOTE: PROVIDE BACKER BLOCKING AT I-JOISTS

NOTCHED OR DRILLED SOLID JOISTS

SCALE: N.T.S.

4

JOIST SIZE	MAX. NOTCH WIDTH: D/3	MAX. NOTCH DEPTH: D/6	MAX HOLE SIZE: D/3
2x6	1⅜"	⅝"	1⅜"
2x8	2⅛"	1"	2⅛"
2x10	3"	1⅜"	3"
2x12	3⅞"	1⅞"	3⅞"
2x14	4⅝"	2⅜"	4⅝"



NOTES:

1. HOLES MAY BE DRILLED IN ANY 1/3 SPAN. HOLES MUST BE A MIN 12" FROM ANY NOTCH.
2. DO NOT NOTCH BOTH TOP AND BOTTOM SURFACES WITHIN THE SAME 1/3 SPAN.
3. MAX ALLOWED IS A COMBINATION OF TWO NOTCHES AND/OR HOLES PER 1/3 SPAN.
4. THIS DETAIL DOES NOT APPLY TO NOTCHES AND HOLES IN STRUCTURAL BEAMS, THEY MUST BE SPECIFICALLY DETAILED.
5. NOTCHES AND HOLES ARE NOT ALLOWED IN CANTILEVERED JOISTS.
6. REFERT TO MANUFACTURER'S RECOMMENDATIONS FOR HOLES IN MANUFACTURED I-JOISTS. DO NOT NOTCH I-JOISTS.

HORIZONTAL ROOF DIAPHRAGM SCHEDULE

SCALE: N.T.S.

3

FLOOR & ROOF DIAPHRAGM SCHEDULE

DIAPHRAGM DESIGNATION	SHEATHING THICKNESS	GRADE RATING	APA SPAN RATING	BLOCKED / UNBLOCKED	NAIL SIZE	BOUNDARY NAILING	EDGE NAILING	FIELD NAILING
R6	15/32"	STD.	32/16	UNBLOCKED	8d	6" o.c.	6" o.c.	12" o.c.
RB6	15/32"	STD.	32/16	BLOCKED	8d	6" o.c.	6" o.c.	12" o.c.

NOTES:

1. ALL ROOF SHEATHING TO BE EXPOSURE 1 OR EXTERIOR PER TABLE 2306.3.1. 7/16" SHEATHING IS NOT STRUCTURALLY ACCEPTABLE FOR ROOF SHEATHING.
2. ALL ROOF NAILS MUST BE 8d.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079
BUILDING AND SAFETY
REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY
APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	MC'T	DATE	BENCH MARK
Contractor _____	04.02.25	LB	1	PC #1			
Inspector _____							
Date Completed _____							

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: H. Azad 6/18/2026
HOSSEIN AZAD, PE, PRINCIPAL CIVIL ENGINEER DATE: _____

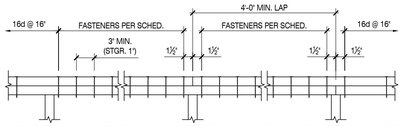
ACCEPTED BY: R. Moreno 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE: _____

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GENERAL FRAMING DETAILS

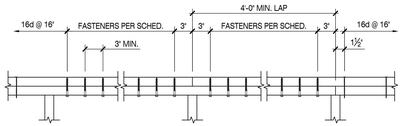
Drawing No.: SD2
Sheet ____ of ____

© 2025 TR DESIGN GROUP ARCHITECTURE. ALL RIGHTS RESERVED. THESE PLANS ARE THE PROPERTY OF TR DESIGN GROUP ARCHITECTURE AND SHALL NOT BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND APPROPRIATE FEES FROM TR DESIGN GROUP ARCHITECTURE.



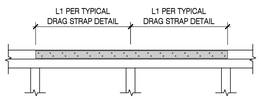
NOTE: WHERE NO TOP PLT SPLICE IS CALLED OUT ON PLAN, PROVIDE 16d AT 3' O.C. STAGGERED EA SIDE OF TOP PLT SPLICE, MIN: (12 16d)

NAILED PLATE SPLICE



NOTE: SDS SCREWS MAY SPACED A MIN. OF 1½", IF PLACED IN TWO ROW & STAGGERED 1½".

SCREWED PLATE SPLICE

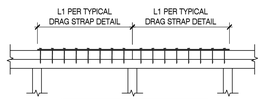


ALT. CS16 OR CS14 STRAP

TOP PLATE SPLICE SCHEDULE - DF / SP

PLATE SPLICE MARK	FASTENER TYPE & QUANTITY EA SIDE OF SPLICE	PLATE STRAP	ALT. FASTENER TYPE & QUANTITY EA SIDE OF SPLCE	CAPACITY (lb) C_D = 1.6
A	(13) 10d	CS14	(12) 16d	2,490
B	(26) 10d	2-CS14	(24) 16d	4,980
C	(33) 10d	CMST14	(14) ¼"x3" SDS	6,475
D	(43) 16d	CMST12	(22) ¼"x3" SDS	9,215

NOTE: REFER TO MANUF. RECOMMENDATIONS FOR NAIL QUANTITIY WHEN WOOD SPECIES OTHER THAN DOUGLAS FIR -LARCH OR SPRUCE PINE IS USED



ALT. CMSTC, CMST14 OR CMST12 STRAP

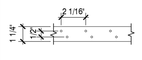
TYPICAL TOP PLATE SPLICE CONNECTIONS

1

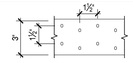
SCALE: N.T.S.

DRAG STRAP SPECIFICATIONS

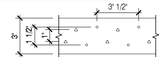
STRAP	DRAG MEMBER	SCAB LENGTH AND NAILING OF SCAB TO DRAG MEMBER	"L1" LENGTH OF STRAP TO TOP PLTs	"L2" LENGTH OF STRAP TO DRAG MEMBER	DRAG CAPACITY (LBS)
(1) CS14	1½" RIM	N/A	16" WITH (15) 8d's	32" w/ (2) ROWS OF 8d's AT 4" O.C.	2490
(2) CS14	1½" RIM w/ 2x SCAB	4' LONG w/ (2) ROWS OF 16d's AT 6" O.C.	16" WITH (15) 8d's	32" w/ (2) ROWS OF 8d's AT 4" O.C.	4980
CMST16	(2) 2x or 3½"	(25) 10d or 0.148"x 2 ½"	20" WITH (25) 10d's	40" w/ 10d or 0.148"x 2 ½"	4690
CMST14	3½" MIN.	N/A	34" WITH (38) 10d's	72" w/ (2) ROWS OF 10d's AT 3 ½" O.C.	6,490
CMST12	3½" MIN.	N/A	44" WITH (49) 10d's	96" w/ (2) ROWS OF 10d's AT 3 ½" O.C.	9,215



CS14 NAILING PATTERN



CMSTC16 NAILING PATTERN



CMST14 & 12 NAILING PATTERN

NOTE: WHERE STRAP IS ATTACHED TO THE TOP OR BOTTOM FACE (I.E. NAILING INTO THE GRAINS) OF ENGINEERED LUMBER (LSL, LVL & PSL) OR IF THE NAILING TENDS TO SPLIT THE WOOD, THE MINIMUM END LENGTH SHALL BE DOUBLED AND NAILING PROVIDED AS FOLLOWS:

- CS14 STRAPS - FILL EVERY OTHER NAIL HOLE (4½" NAIL SPACING)
- CMSTC16 STRAP - FILL EVERY OTHER NAIL HOLE (3" NAIL SPACING)
- CS14 STRAPS - FILL ONLY ROUND NAIL HOLES (3½" NAIL SPACING)

FASTENER SPACING FOR TJI APPLICATIONS:
MINIMUM NAIL SPACING SHALL BE 4" O.C. FOR TJI TYPE 110-230 & 3" O.C. FOR TYPE 360 & GREATER
MULTIPLE ROWS OF FASTENERS ARE PERMITTED IF ROWS ARE OFFSET AT LEAST ⅔" AND STAGGERED.

WHEN INSTALLING STRAP OVER WOOD STRUCTURAL PANELS, USE 2 ½" LONG NAILS MIN.

TYPICAL TOP PLATE SPLICE CONNECTIONS

3

TOP PLATE NOTCH - STRAP REINFORCING (DTL 7/SD2)

DTL 7/SD2 STRAP SHOWN ON PLANS	NO. OF CTS218 (24-10dx1 ½")**	ALLOW. TENSION, LB	ALLOW. COMP., LB
CS14	2-CTS218	3632	1632
2-CS14	2-CTS218	3632	1632
CMST14	4-CTS218	7264	3792
CMST12	4-CTS218	7264	3792

**REPLACES 7/SD2 COLLECTOR STRAPS
CTS218 ICC ES-ESR 2105

STRAPS ONLY REQUIRED AT EXTERIOR WALLS AND INTERIOR BEARING AND SHEAR WALLS

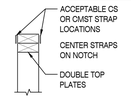
CENTER CTS218 STRAP(S) ON NOTCH PER TBL ABV

CS OR CMST STRAP AT HOLES PER 7/SD2 REFER TO PLANS FOR TOP ℄ BRK STRAP AT HOLE. CENTER STRAP ON HOLE

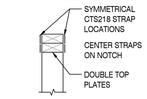
TOP PLATES - PLAN VIEW

ALLOWABLE NOTCHES AND HOLES IN TOP PLATES

PLATE SIZE	"D" DEPTH	WIDTH	HOLE Ø
2x4	1"	4 ½" MAX	1" MAX
2x6	2"	4 ½" MAX	3" MAX

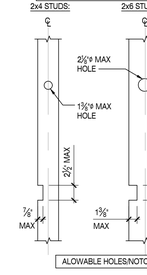


CS OR CMST STRAP LOCATIONS AT HOLE

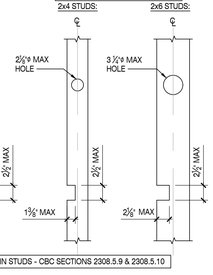


CTS218 STRAP LOCATIONS AT NOTCH

EXTERIOR/INTERIOR BEARING & SHEAR WALLS



INTERIOR NON-BEARING & NON-SHEAR WALLS



ALOWABLE HOLES/NOTCHES IN STUDS - CBC SECTIONS 2308.5.9 & 2308.5.10

NOTCHED/DRILLED STUD WALL NOTES: (CBC SECTIONS 2308.5.9 & 2308.5.10)

1. DO NOT NOTCH OR DRILL MORE THAN 3 CONSECUTIVE BEARING OR SHEAR WALL STUDS.
2. ALL HOLES SHOULD BE CENTERED ON STUDS, TYPICAL.
3. 1"Ø MAX ELECTRICAL DRILL OUT PERMITTED IN STUDS

NOTCHING AND DRILLING OF STUDS AND TOP PLATES

2

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET
STUDIO A-400
RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	REC'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE
Horizontal
Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

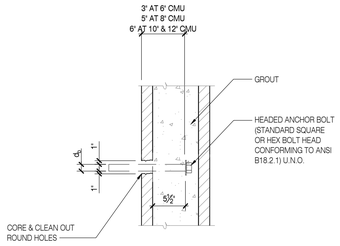
RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GENERAL FRAMING DETAILS

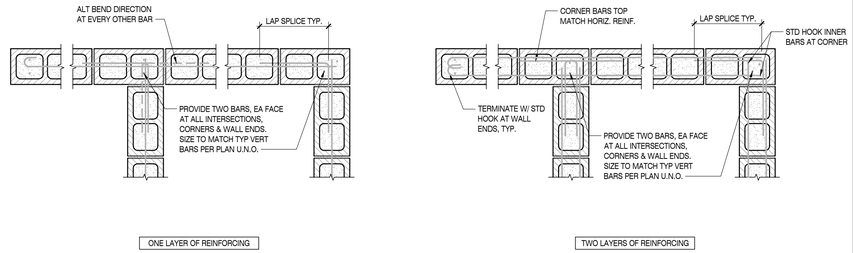
Drawing No.
SD2.1
Sheet ____ of ____



TYPICAL ANCHOR/HEAD STUD IN MASONRY

SCALE: N.T.S.

8



TYPICAL REINFORCING AT CMU WALL INTERSECTIONS & CORNERS

SCALE: N.T.S.

5

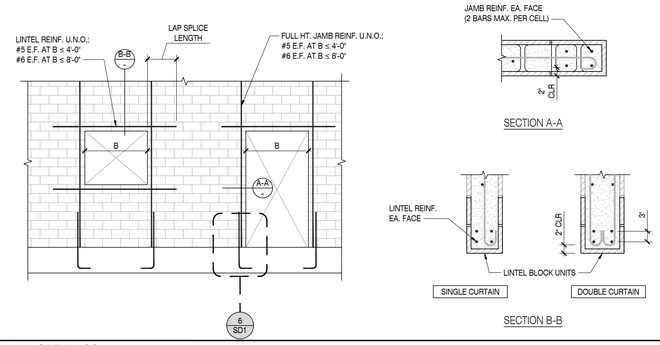
REBAR SPLICE & DEVELOPMENT LENGTH Ld IN MASONRY							
MASONRY STRENGTH f'm (PSI)	SPLICE & DEVELOPMENT LENGTH IN MASONRY (INCHES)						
	#3	#4	#5	#6	#7	#8	#9
1,500	15	25	39	74	100	151	192
1,800	14	23	36	67	91	138	175
2,000	13	22	34	64	87	131	166
2,500	12	20	30	57	78	117	149

1. f_y = 60,000 psi
2. VERTICAL SPLICES IN REBAR SHOULD BE STAGGERED 24" MINIMUM
3. INCREASE DISTANCE 50% FOR EPOXY COATED BARS
4. LAP SPLICES SHALL BE STAGGERED VERTICALLY 24 BAR DIAMETERS

REBAR SPLICE AND DEVELOPMENT LENGTH IN MASONRY WALL

SCALE: N.T.S.

1

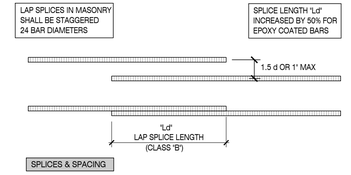


TYPICAL MASONRY WALL OPENINGS

SCALE: N.T.S.

6

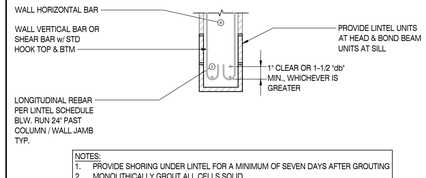
TENSION REBAR LAP SPLICE	
REBAR	"Ld"
#3	15"
#4	25"
#5	39"
#6	54"
#7	63"
#8	79"



TYPICAL MASONRY REBAR LAP SPLICE

SCALE: N.T.S.

2



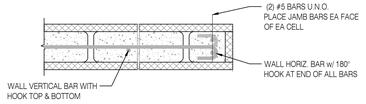
NOTES:
1. PROVIDE SHORING UNDER LINTEL FOR A MINIMUM OF SEVEN DAYS AFTER GROUTING
2. MONOLITHICALLY GROUT ALL CELLS SOLID
3. MECHANICALLY VIBRATE GROUT

LINTEL SCHEDULE AT CMU WALL OPENING					
LINTEL PLAN MARK	NOMINAL WALL THICKNESS	MIN DEPTH	LONGITUDINAL BOTTOM REBAR	# OF ROWS OF REINF AT BOTTOM OF LINTEL	VERTICAL SHEAR BAR SIZE & SPACING
L1	10"	10"	2-#4	1	TYP. WALL BAR
L2	10"	12"	2-#4	1	TYP. WALL BAR
L3	10"	24"	2-#4	1	TYP. WALL BAR

TYPICAL CMU LINTEL DETAIL

SCALE: N.T.S.

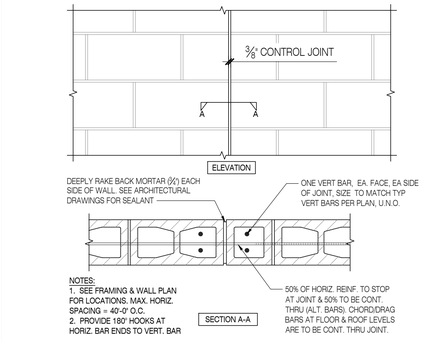
7



TYPICAL MASONRY JAMB BAR

SCALE: N.T.S.

4



TYPICAL MASONRY CONTROL JOINT

SCALE: N.T.S.

3

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TEL 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TRD DESIGN GROUP ARCHITECTURE
MADE IN THE U.S.A.
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'TD	DATE	BENCH MARK	SCALE
Contractor _____	04.02.25	LB	1	PC #1				horizontal
Inspector _____								vertical
Date Completed _____								

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 CIVIL — STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of: _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ADIBI, PE, PRINCIPAL CIVIL ENGINEER

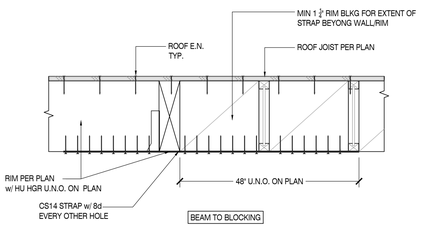
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
GENERAL MASONRY DETAILS

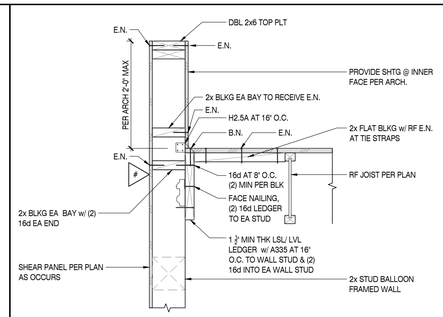
Drawing No. SD2.2

Sheet ____ of ____



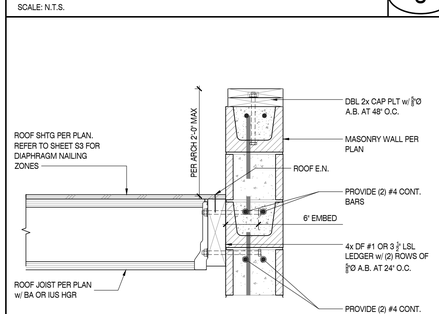
TYPICAL DRAG CONNECTIONS WITHIN MOD FRAMING — 12

SCALE: N.T.S.



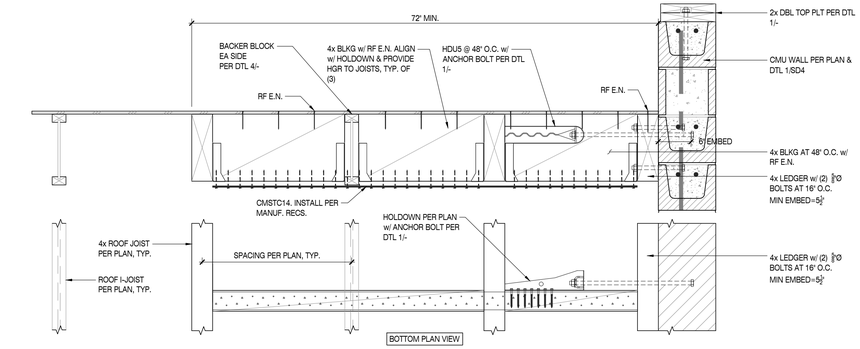
ROOF JOIST PARALLEL TO WALL (BALLOON PARAPET) — 8

SCALE: N.T.S.



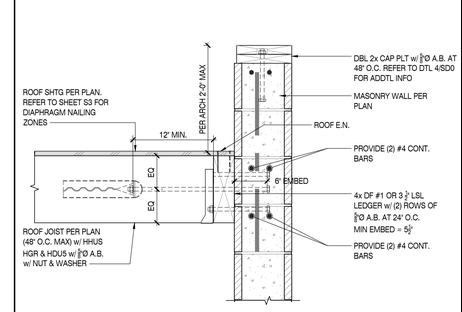
ROOF I JOIST TO CMU WALL PERPENDICULAR CONDITION — 9

SCALE: N.T.S.



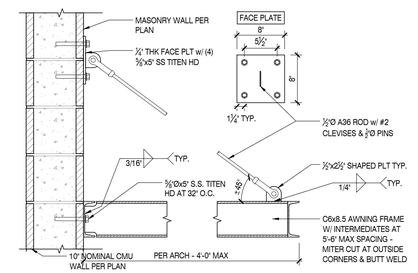
OUT OF PLANE ANCHORAGE CONNECTION TO WALL — 2

SCALE: N.T.S.



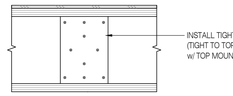
ROOF JOIST TO MASONRY WALL - PERPENDICULAR CONDITION — 1

SCALE: N.T.S.



STEEL AWNING TO MASONRY WALL — 6

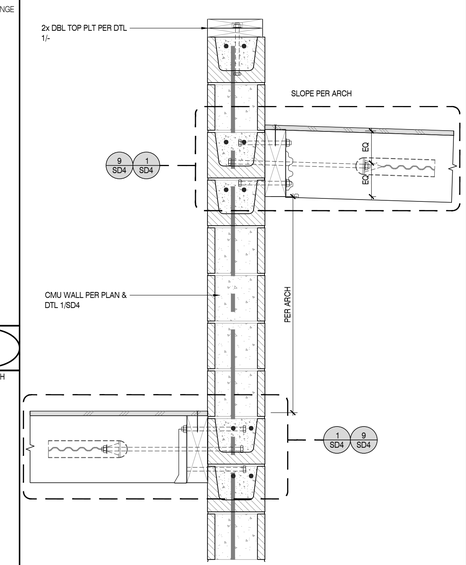
SCALE: N.T.S.



WEB STIFFENER REQUIREMENTS				
TJI	DEPTH	BACKER BLOCK	NAIL TYPE	# OF NAILS
110	9 ¼" - 11 ⅞"	⅞" OR ¾"	10d (0.128" x3")	10
	14"- 16"			
210	9 ¼" - 11 ⅞"	¾" OR ⅞"		
	14"- 16"			
230,360	9 ¼" - 11 ⅞"	1" OR 1" NET		
	14"- 16"			
560	9 ¼" - 11 ⅞"	2x6		
	14"- 16"	2x8		

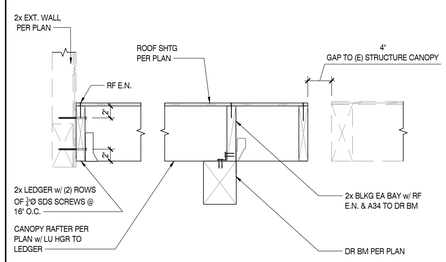
TYPICAL BACKER BLOCK — 4

SCALE: N.T.S.



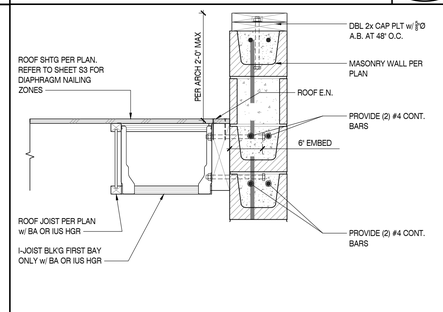
ROOF FRAMING TO MASONRY WALL AT ROOF TRANSITION — 3

SCALE: N.T.S.



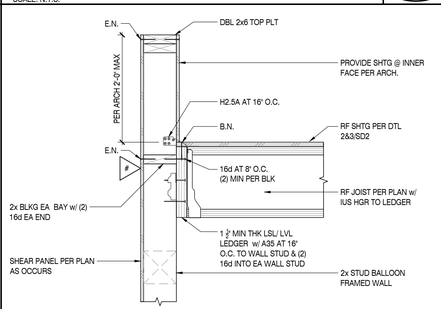
CANOPY ROOF CONNECTION TO BEAM — 13

SCALE: N.T.S.



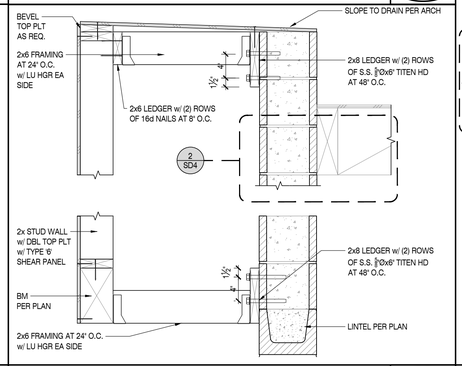
ROOF I JOIST TO MASONRY WALL PARALLEL CONDITION — 10

SCALE: N.T.S.



ROOF JOIST PERPENDICULAR TO WALL (BALLOON PARAPET) — 7

SCALE: N.T.S.



WOOD FRAMING TO MASONRY WALL CONNECTION — 5

SCALE: N.T.S.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

ISE STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

TM-B24-5413/B25-0079
BUILDING AND SAFETY
REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY
APPROVED BY: _____ NAME _____ DATE

JOB#: 19-089

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'T	DATE	BENCH MARK
Contractor	04.02.25	LB	1	PC #1			
Inspector							
Date Completed							

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 Civil — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of _____ Date _____

R.C.E. No. _____

RECOMMENDED BY: HOSSEIN ARJDER, PE, PRINCIPAL CIVIL ENGINEER DATE: 6/18/2026

ACCEPTED BY: RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE: 6/18/2026

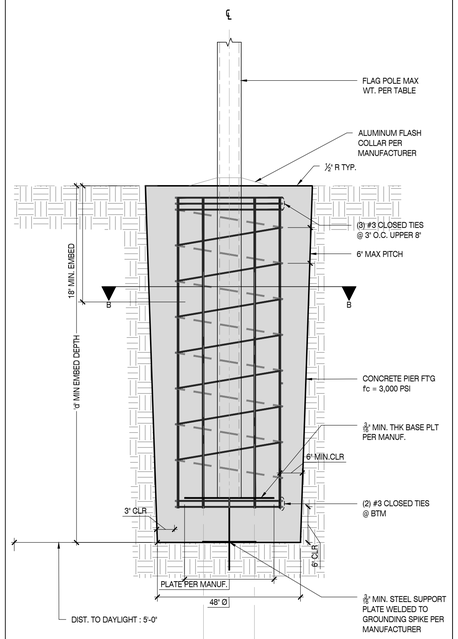
CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
ROOF FRAMING DETAILS

Drawing No. SD4

Sheet ____ of ____

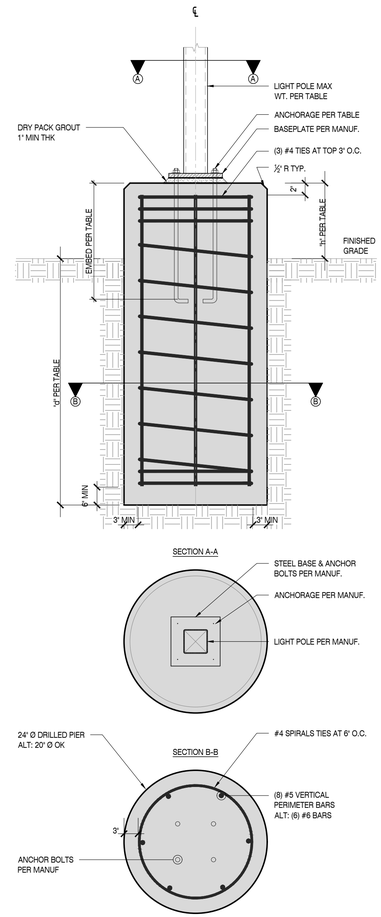
MAX POLE HEIGHT	MAX POLE WT (LBS)	MAX FLAG SIZE (FT)	'd'	'h' A.F.G.
40'-0"	471	8x12	5'-0"	0'-3" MAX



FLAG POLE FOOTING DETAIL — SCALE: N.T.S. — 2

MAX POLE HEIGHT	MAX POLE WT (LBS)	MAX LIGHT WT (LBS)	'd'	'h'	ANCHOR BOLTS	MIN. A.B. EMBED.
24'-0"	240	50	6'-0"	0'-4" MIN 4'-0" MAX	¾"Ø J BOLT F1554 Gr 36	12"

NOTES:
1. GALVANIZED BOLTS MUST BE USED WHEN EXPOSED TO WEATHER.
2. MAXIMUM POLE HEIGHT DOES NOT INCLUDE RAISED BASE



TYPICAL LIGHT POLE FOOTING DETAIL — SCALE: N.T.S. — 1

ISE
STRUCTURAL ENGINEERS
27369 VIA INDUSTRIA
TEMECULA, CA 92590
TELE: 951.600.0032
WWW.ISEENGINEERS.COM
SOCAL | NORCAL | COLORADO

TR DESIGN GROUP ARCHITECTURE
951.742.7179
2900 ADAMS STREET STUDIO A-400 RIVERSIDE, CA 92504
www.trdesigngroup.com
MADE IN THE U.S.A.

JOB#: 19-089

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: _____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

CONSTRUCTION RECORD	DATE	BY	NO.	REVISIONS	ACC'D	DATE
Contractor _____	04.02.25	LB	1	PC #1		
Inspector _____						
Date Completed _____						

BENCH MARK

SCALE
HORIZONTAL
VERTICAL

SEAL: REGISTERED PROFESSIONAL ENGINEER — No. C97403 Exp. 6/30/27 — CIVIL — STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

_____ Date _____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEH, PE, PRINCIPAL CITY ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

FIRE STATION 73
NEW GYM AND APPARATUS BAY W/ STORAGE
27415 ENTERPRISE CIRCLE, TEMECULA, CA 92590
POLE FOOTING DETAILS

Drawing No.
SD4.1
Sheet ____ of ____

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF TR DESIGN GROUP. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF TR DESIGN GROUP IS PROHIBITED.

HVAC NOTES AND SPECIFICATIONS

SECTION 1: SCOPE OF WORK

1. NEW 3.0 TON MULTI-ZONE DUCTLESS MINI-SPLIT VRF SYSTEM, NEW 2.0 TON HEAT PUMP UNIT, NEW ENGINE BAY VENTILATION, AND NEW AIR DISTRIBUTION.
2. DUCT WORK, ELBOWS, FITTINGS, & DUCT INSULATION.
3. DIFFUSERS, REGISTERS, AND GRILLES
4. HVAC CONTROL SYSTEMS.
5. TESTING AND BALANCING.
6. PERMIT AND INSPECTION.

SECTION 2: FEES, PERMITS & INSPECTIONS

a) CONTRACTOR MUST PAY FEES AND OBTAIN PERMITS, LICENSES, INSPECTIONS, ETC, AS REQUIRED BY ANY LEGALLY CONSTITUTE AUTHORITY.

b) CONTRACTOR SHALL NOT MAKE HIS WORK COVERED OR CLOSED UNTIL THE WORK HAS BEEN INSPECTED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION. ANY EXPENSES FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT WILL BE PAID BY THE CONTRACTOR.

c) THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.

SECTION 3: GENERAL REQUIREMENTS

a) ANY EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.

b) ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS.

c) CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE FOR DEMO OF ALL EXISTING ITEMS, AS REQUIRED, FOR INSTALLATION/CONSTRUCTION OF NEW WORK.

d) CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRA COSTS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.

e) CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.

f) THE MECHANICAL CONTRACTOR SHALL INSPECT AND TEST RUN ALL EXISTING UNITS AT THE START OF CONSTRUCTION AND INFORM THE ARCHITECT OF ANY NECESSARY REPAIRS FOR APPROVAL IN A TIMELY MANNER TO NOT DELAY THE OPENING DATE.

g) ALL APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE PER BUILDING CODE REQUIREMENTS OR APPLICABLE MANUFACTURER INSTALLATION REQUIREMENTS.

h) THE CONTRACTOR SHALL INSTALL ALL EQUIPMENTS AS REQUIRED TO CONFORM TO THE STRUCTURE. AVOID OBSTRUCTIONS AND MAKE ALL EQUIPMENT REQUIRING MAINTENANCE OR REPAIR ACCESSIBLE.

i) ALL EQUIPMENT FURNISHED SHALL FIT THE SPACE AVAILABLE WITH CONNECTIONS IN THE REQUIRED LOCATIONS AND WITH ADEQUATE SPACE FOR OPERATING AND SERVICING. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATE THE MANNER AND METHOD OF THE INSTALLATION WHILE THE SPECIFICATIONS AND EQUIPMENT LIST DENOTE THE TYPE AND QUALITY OF MATERIAL AND WORKMANSHIP TO BE USED. THE DRAWINGS SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, WHERE A CONFLICT EXISTS BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT WHOSE DECISION SHALL BE FINAL. NO ALLOWANCE WILL BE MADE SUBSEQUENTLY IN THIS CONNECTION ON BEHALF OF THE CONTRACTOR AFTER AWARD OF THE CONTRACT.

j) ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE LATEST FEDERAL, STATE AND LOCAL CODES (NFPA, UBC, UMC AND LOCAL BODIES HAVING JURISDICTION). APPLICABLE CODE: CMC 2022, CPC 2022, CALIFORNIA ENERGY EFFICIENCY CODE 2022, CALIFORNIA ELECTRICAL CODE 2022.

k) THE CONTRACTOR SHALL COOPERATE WITH THE OTHER TRADES SO THAT THE INSTALLATION OF ALL EQUIPMENT MAY BE PROPERLY COORDINATED.
k.1) DISCONNECT SWITCHES & LINE VOLTAGE CONNECTIONS (BY ELECTRICAL)
k.2) ALL LINE VOLTAGE WIRING AND CONDUIT (BY ELECTRICAL)
k.3) CONDENSATE PIPING (PLUMBING)

l) ALL ROOFING WORK SHALL BE PERFORMED BY OWNER'S APPROVED ROOFING CONTRACTOR.

m) DISPOSE OF ALL EQUIPMENT NOT REUSED AS A PART OF THE NEW WORK AS DIRECTED BY THE OWNER.

n) ALL ROOF MOUNTED EQUIPMENT SHALL BE LABELED AS TO THE SPACE IT SERVES WITH 3" HIGH WEATHERPROOF VINYL LETTERS.

o) ALL APPLIANCE AND PLUMBING VENTS AND THE DISCHARGE OUTLET OF EXHAUST FANS SHALL BE LEAST TEN (10) FEET IN A HORIZONTAL DIRECTION, OR THREE(3) FEET ABOVE THE OUTSIDE-AIR INTAKES FOR HVAC UNITS.

p) MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL HAVE A FLAMESPREAD RATING NOT GREATER THAN TWENTY-FIVE(25) AND A SMOKE DEVELOPED RATING NOT GREATER THAN HUNDRED FIFTY(50) WHEN TESTED AS A COMPOSITE PER APPLICABLE TESTING STANDARD.

q) AFTER INSTALLING WALL, CEILING, OR FLOOR INSULATION, THE INSTALLER SHALL MAKE AVAILABLE TO THE ENFORCEMENT AGENCY OR POST IN A CONSPICUOUS LOCATION IN THE BUILDING, A CERTIFICATE SIGNED BY THE INSTALLER STATING THAT THE INSTALLATION IS CONSISTENT WITH THE PLANS AND SPECIFICATIONS DESCRIBED IN SEC 10.103(A)2A. THE CERTIFICATE SHALL ALSO STATE THE MANUFACTURER'S NAME, MATERIAL IDENTIFICATION, AND THE INSTALLED R-VALUE.

r) INSTALL DUCT INSULATION ONLY AFTER DUCTWORK HAS BEEN INSPECTED AND APPROVED.

s) REGISTERS, GRILLES, AND DIFFUSERS SHALL BE INSTALLED ONLY AFTER ALL CEILINGS AND WALLS ARE FINISHED INCLUDING FINAL PAINTING. CEILING MOUNTED UNITS SHALL BE INSTALLED WITH RIMS TIGHT AGAINST CEILING. WALL MOUNTED UNITS SHALL BE INSTALLED AT LEAST 6 INCHES BELOW THE CEILING UNLESS OTHERWISE NOTED. DAMPERS PROVIDED WITH DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR SYSTEM BALANCING. INSIDE OF DUCT, BEHIND SEE-THROUGH REGISTERS AND GRILLES SHALL BE PAINTED BLACK.

t) ROUND SHEET METAL DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED BY HANGERS AT LEAST EVERY 10 FEET. FLEXIBLE DUCTS SUSPENDED IN THE AIR SHOULD BE SUPPORTED AT LEAST EVERY 4 FEET BY STRAPS THAT ARE AT LEAST 1-1/2" TO 1-3/4" INCHES WIDE, AND THEY SHOULD NOT SAG MORE THAN 1/2" FOR EACH FOOT OF DISTANCE BETWEEN THE SUPPORTS. STRAPS USED ON FLEXIBLE DUCTS SHOULD NOT CONSTRICT THE INNER DIAMETER OF THE DUCT OR CUT THE OUTER JACKET.

u) DUCT SLEEVES AND PREPARED OPENINGS SHALL BE PROVIDED WHERE DUCTS PENETRATE FLOORS, WALLS, CEILINGS OR ROOFS, AND SHALL BE INSTALLED DURING CONSTRUCTION OF THE FLOOR, WALL, CEILING OR ROOF. MECHANICAL CONTRACTOR SHALL COORDINATE LOCATION OF ALL DUCT PENETRATIONS OF STRUCTURE WITH GENERAL CONTRACTOR.

v) DUCT SLEEVES SHALL BE FABRICATED FROM MINIMUM 20 GAUGE GALVANIZED SHEET STEEL. SLEEVE SHALL HAVE ONE(1) INCH CLEARANCE BETWEEN THE DUCT AND THE SLEEVE, OR ONE(1) INCH CLEARANCE BETWEEN THE INSULATION AND THE SLEEVE FOR INSULATED DUCTS. DUCT SLEEVES EMBEDDED IN CONCRETE SHALL BE CONSTRUCTED OF 1/4 INCH THICK CARBON STEEL PLATE, AND SHALL BE WELDED IN ACCORDANCE WITH AWS D1.1.

w) DEMAND CONTROL VENTILATION DEVICES (CO2 SENSORS) SHALL BE INSTALLED IN ACCORDANCE WITH CMC. 121(C)4.

SECTION 4: PRODUCTS

a) THERMOSTAT SHALL BE INSTALLED WITH 7-DAY PROGRAMMABLE AUTO-CHANGE OVER FEATURE. MOUNTING HEIGHT IS 3 TO 4 FEET ABOVE FINISHED FLOOR.

b) ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL BE INSTALLED, SEALED AND INSULATED TO MEET THE REQUIREMENTS OF CHAPTER 6 OF THE CALIFORNIA MECHANICAL CODE. SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8, UNLESS NOTED OTHERWISE. INSULATION IS NOT REQUIRED ON LINED DUCTS AND DUCTS EXPOSED TO CONDITIONED SPACE. PROVIDE RFI TO ENGINEER BEFORE CLASSIFYING THE SPACE AS CONDITIONED SPACE. NO COMPENSATION WILL BE MADE IF THE CONTRACTOR FAILS TO VERIFY.

c) DUCT PLENUM SHALL BE GALVANIZED STEEL DUCT. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPS. TAPS AND MASTICS USED TO SEAL DUCTWORK SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL181A OR UL181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. [IECC 2021]

d) FLEXIBLE DUCTWORK SHALL BE IN ACCORDANCE WITH UL181 AND NFPA 90A AND NFPA 90B. ALL TAKEOFFS FROM MAIN AND BRANCH DUCT SHALL BE 45° TAPS WITH VOLUME DAMPERS AS SHOWN ON THE DRAWINGS. GLASS-FLEX TYPE DUCT MAY BE USED AT ENTRANCE TO DIFFUSERS BUT MUST BE NO GREATER THAN 5'-0" IN LENGTH.

e) DUCT SUPPORTS AND HANGERS: PROVIDE HANGERS AND SUPPORTS OF STEEL SHAPES AND RODS CONFORMING TO ASTM A36/A36M, GALVANIZED IN ACCORDANCE WITH ASTM A123. HARDWARE FOR HANGERS AND SUPPORTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153/A153M. HANGERS AND SUPPORTS SHALL BE FABRICATED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND SMACNA HVAC SYSTEMS DUCT DESIGN.

f) BUILDING ATTACHMENT: CONCRETE INSERTS, POWER-ACTUATED FASTENERS, OR STRUCTURAL STEEL FASTENERS APPROPRIATE FOR BUILDING MATERIALS. DO NOT USE POWDER-ACTUATED CONCRETE FASTENERS FOR LIGHTWEIGHT AGGREGATE CONCRETES OR FOR SLABS LESS THAN 4 INCHES THICK.

g) STRAPS AND ROD SIZES: CONFORM WITH TABLE 4-1 IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, FOR SHEET STEEL WIDTH AND GAUGE AND STEEL ROD DIAMETERS.

h) DUCT ATTACHMENTS: SHEET METAL SCREWS, BLIND RIVETS, OR SELF-DRILLING, SELF-TAPPING METAL SCREWS; COMPATIBLE WITH DUCT MATERIALS.

i) KITCHEN HOOD EXHAUST DUCTWORK: FABRICATE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE AND NFPA 96. CONSTRUCT OF 16 GAUGE STAINLESS STEEL, USING CONTINUOUS EXTERNAL WELDED JOINTS. TYPE II EXHAUST DUCTS TO BE STAINLESS STEEL.

j) VOLUME DAMPERS: PROVIDE VOLUME DAMPERS IN DUCTS CONSTRUCTED OF 22 GAUGE GALVANIZED FOR DUCTS SMALLER THAN 11 INCHES, 20 GAUGE FOR DUCTS SMALLER THAN 21 INCHES; AND 16 GAUGE FOR DUCTS LARGER THAN 21 INCHES. PROVIDE LOCKING QUADRANTS AS REQUIRED. MANUALLY ADJUSTABLE BALANCING DAMPERS SHALL BE PROVIDED TO SUPPLY, RETURN AND EXHAUST DUCTS AT POINTS WHERE BRANCHES ARE TAKEN FROM LARGER DUCTS AND IN BRANCH DUCT TO INDIVIDUAL DIFFUSERS, GRILLES, AND REGISTERS.
1. DAMPER AXLES SHALL BE CONTINUOUS SQUARE RODS NOT SMALLER THAN 3/8-INCH, WITH MACHINED ENDS AND BEARING AT BOTH ENDS.
2. SINGLE-BLADE DAMPER SHALL BE PROVIDED FOR DUCT SIZES UP TO 18 INCH; MULTIBLADE DAMPERS OF OPPOSED BLADE PATTERN SHALL BE PROVIDED FOR CUST SIZE LARGER THAN 18 INCH.

k) T-BAR CEILING SUPPLY DIFFUSER: KRUEGER MODEL 6500 OR APPROVED EQUAL.

l) T-BAR CEILING RETURN DIFFUSER: KRUEGER MODEL 6690 OR APPROVED EQUAL.

m) DUCT HEATER: WHERE ELECTRICAL HEATER ARE INSTALLED IN AIR DUCTS, THE DUCT SHALL BE INSULATED WITH NONCOMBUSTIBLE INSULATION EXTENDING IN EACH DIRECTION FROM THE HEATER. DISTANCE SHALL BE AS RECOMMENDED BY THE HEATER MANUFACTURER.

n) LINED EXPOSED EXTERIOR DUCTWORK SHALL BE 2" THICK, 1.5PCF DENSITY LINING. DUCT SIZE SHOWN ON PLAN SHALL REFER TO OUTER DIMENSIONS UNLESS SPECIFIED OTHERWISE.

o) VOLUME DAMPER MUST BE INSTALLED AT BRANCH TAKE-OFF FROM MAIN SUPPLY DUCT. PROVIDE YOUNG REGULATOR CABLES FOR ADJUSTMENT OF VOLUME DAMPERS IN HARD LID CEILING WHERE ACCESS PANELS ARE NOT PROVIDED.

SECTION 5: EQUIPMENT SUBMITTALS

SUBMITTALS FOR MECHANICAL EQUIPMENTS SHALL BE SUBMITTED TO ARCHITECT AND ENGINEER FOR APPROVAL BEFORE ORDERING SUCH EQUIPMENTS. NO EXCEPTION.

SECTION 6: TESTING

a) AFTER COMPLETION OF WORK, TESTS ON THE HVAC SYSTEMS, INCLUDING A DUCT LEAKAGE TEST, AND ON AIR BALANCE PERFORMANCE ARE REQUIRED. THE AIR QUALITY RESULTS SHOULD CONFORM WITH THE VOLUME SHOWN ON THE PLAN. PROVIDE ALL NECESSARY TESTING EQUIPMENTS AND LABORS AT NO COST TO THE OWNER.

b) THE TESTED AIR QUALITY SHOULD BE WITHIN 5% OF THE DESIGN VALUE INDICATED ON PLANS. NOTIFY ENGINEER IMMEDIATELY IF AIR QUALITY IS OUT OF THE RANGE. NO EXCEPTION.

SECTION 7: OPERATING INSTRUCTIONS

a) THE BUILDER SHALL PROVIDE THE BUILDING OWNER OR PERSON(S) RESPONSIBLE FOR BUILDING MAINTENANCE (IN CASE OF MULTI-TENANT OR CENTRALLY OPERATED BUILDINGS) AT OCCUPANCY THE FOLLOWING:

1)OPERATING INFORMATION: THE APPROPRIATE CERTIFICATE(S) OF COMPLIANCE AND A LIST OF THE FEATURES, MATERIALS, COMPONENTS, AND MECHANICAL DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO OPERATE THEM EFFICIENTLY.
2) MAINTENANCE INFORMATION: REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. THE LABEL MAY BE LIMITED TO IDENTIFYING THE OPERATION AND MAINTENANCE MANUAL.
3) VENTILATION INFORMATION: A DESCRIPTION OF THE QUANTITIES OF OUTDOOR AND RECIRCULATED AIR THAT THE VENTILATION SYSTEMS ARE DESIGNED TO PROVIDE TO EACH AREA.

b) CONTRACTOR SHOULD PREPARE AT LEAST THREE SETS MANUALS, COVERING
1. OIL AND LUBRICATION INSTRUCTIONS
2. PARTS SCHEDULE AND REPLACEMENT INSTRUCTIONS
3. AIR FLOW AND AIR BALANCE REPORT.

SECTION 8: WARRANTY

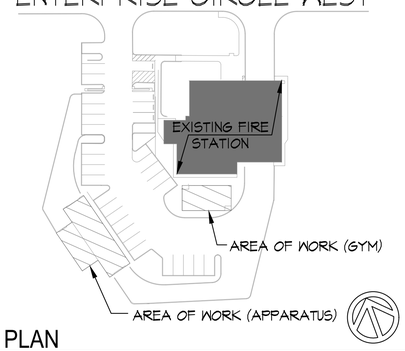
a) THE CONTRACTOR SHALL PROVIDE OWNER WITH A WRITTEN MINIMUM TWO (2) YEAR MANUFACTURING WARRANTY ON ALL HVAC EQUIPMENT PROVIDED AND/OR INSTALLED. THE WARRANTY SHALL INCLUDE ALL LABOR, MATERIALS, AND THREE (3) ROUTINE SERVICES WITH FILTER CHANGES DURING A ONE (1) YEAR PERIOD.

DUCT WORK SYMBOLS

DOUBLE LINE		SINGLE LINE
	EXISTING EQUIPMENT OR DUCTWORK TO BE REMOVED.	
	EXISTING DUCTWORK TO REMAIN	
	NEW RIGID DUCTWORK	
	MANUAL VOLUME DAMPER (MVD) MOTOR OPERATED DAMPER (MOD)	
AD	ACCESS DOOR	AD
	RADIUS ELBOW (R=1.5)	
	VANED ELBOW	
	BRANCH DUCT TAKE-OFF	
D R	RISE OR DROP DIRECTION OF AIR FLOW	D R
	FLEXIBLE CONNECTION (FXC)	
TAG CFM	DIFFUSER	TAG CFM
TAG CFM	SUPPLY AIR GRILLE (G) OR SUPPLY AIR REGISTER (R)	TAG CFM
TAG CFM	RETURN AND/OR EXHAUST AIR GRILLE (G) OR REGISTER (R)	TAG CFM

	EXHAUST WALL CAP		AIR DEVICE TO BE REMOVED
	OUTSIDE AIR WALL LOUVER		SUPPLY OR OUTSIDE AIR
	KEYED NOTES		RETURN AIR
UC	UNDERCUT DOOR		EXHAUST AIR
DL	DOOR LOUVER (FREE AREA REQUIRED INDICATED IN SQUARE FEET)	SD	SMOKE DETECTOR
		SFD	SMOKE/FIRE DAMPER
	TAG	T	THERMOSTAT UNIT TAG
	AIR QUANTITY (CFM)		POINT OF CONNECTION (P.O.C.)
			ACCESS PANEL

ENTERPRISE CIRCLE WEST



KEY PLAN
SCALE:NONE

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-267-9065

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN KAMDAR, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

HVAC GENERAL NOTES AND LEGENDS

Drawing No. M-1.0

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023Jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwgLast Saved:Wed Mar.,2026--8:02am

FAN SCHEDULE

EF / IF

EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN W.G.)	MOTOR				MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
					WATTS	HP	RPM	VOLT.-PH.-CY.		
IF G	GYM	CEILING	165	0.384	--	1/15	1725	115-1-60	GREENHECK SQ-70-VG	BACKDRAFT DAMPER CONTROLLED BY TIME CLOCK OPER. WT. = 38 LBS NOTE #1

NOTES:
1. ELEC. INTERLOCK W/ FC-1BA & FC-1BB

VENTILATION CALCULATION

OCCUPANCY CATEGORY	FLOOR AREA (SQ.FT.)	*AREA OUTDOOR AIR RATE (CFM/SQ.FT.)	AREA OUTDOOR AIR REQUIREMENT (CFM)	PERSONS (QTY.)	*PEOPLE OUTDOOR AIR RATE (CFM/PERSON)	PEOPLE OUTDOOR AIR REQUIREMENT (CFM)	OUTSIDE AIR PROVIDED (CFM)
GYM AREA	820	0.18	147.6	5.74	20	114.8	265
SHOP & STORAGE	620	0.12	74.4	1.24	5	6.2	85

NOTES:
*PER CMC TABLE 402.1

EXHAUST CALCULATION

OCCUPANCY CATEGORY	FLOOR AREA (SQ.FT.)	*EXHAUST RATE (CFM/SQ.FT.)	EXHAUST REQUIREMENTS (CFM)	EXHAUST PROVIDED (CFM)
APPARATUS BAY (AUTOMOTIVE)	1420	1.50	2130	2200

NOTES:
*PER CMC TABLE 403.7

DUCTLESS MINI SPLIT SYSTEM HEAT PUMP (VRF) - OUTDOOR UNIT SCHEDULE

HP

	EQUIPMENT NO.	SERVICE	HEATING CAPACITY (BTU/HR)	HSPF/ C.O.P.	COOLING CAPACITY (BTU/HR)	SEER/ EER	ELECTRICAL	REFRIG. PIPING		MINIMUM CIRCUIT AMPS	MAXIMUM FUSE SIZE	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
							V.-PH.-CY.	LIQUID	SUCTION				
VRF #1	HP 24	STORAGE	25,000	9.50 / --	22,000	18.0 / 12.4	208-1-60	1/4	3/8	22.1	25.0	TRANE-MITSUBISHI NTXMMX24AJB2CA	FACTORY CURB R410 REFRIGERATION OPER. WT. = 142 LBS NOTE #1, #2, #3, #4, #5, #6, #7
VRF #2	HP 36	GYM	41,000	-- / 3.74	36,000	20.7 / --	208-1-60	3/8	5/8	29.0	40.0	TRANE-MITSUBISHI NTXM5MB6AJ42BA	FACTORY CURB R410 REFRIGERATION OPER. WT. = 271 LBS NOTE #1, #2, #3, #4, #5, #6, #7

NOTES:
1. PROVIDE ALL REQUIRED MATERIALS & INSULATED REFRIGERANT LINES FOR COMPLETE INSTALLATION, SIZE RS/RL PIPING PER MANUFACTURERS GUIDELINES.
2. PROVIDE REQUIRED ACCESS TO INDOOR UNIT PER CMC.
3. PROVIDE PROGRAMMABLE THERMOSTAT.
4. PROVIDE CONTROL WIRING, CONDUIT, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
5. PROVIDE SECONDARY CONDENSATE DRAIN PAN FOR ALL DX COILS.
6. PROVIDE MERV 13 FILTER AT RETURN AIR PLENUM CONNECTION TO UNIT.
7. HEAT PUMPS CORRESPOND TO MULTI-ZONE VRF SYSTEM.

DUCTLESS MINI SPLIT SYSTEM HEAT PUMP (VRF) - INDOOR UNIT SCHEDULE

FC

	EQUIPMENT NO.	SERVICE	SUPPLY (CFM)	MIN. OSA (CFM)	E.S.P. (IN W.G.)	COOLING CAPACITY (BTU/HR.)	HEAT PUMP HEATING CAPACITY (BTU/HR.)	BACKUP ELECTR. RESIST. HEATING		ELECTRICAL		MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
								KW	MBH	V.-PH.-CY.	FLA		
VRF SYSTEM #1	FC 12A / FC 12B	STORAGE	400	A: 50 B: 50	0.5	10,900	12,000	--	--	208-1-60	1*	TRANE-MITSUBISHI NTXGKS12AJ12	R410 REFRIGERATION OPER. WT. = 31 LBS NOTE #1, #2, #3, #4, #5, #6, #7
VRF SYSTEM #2	FC 18A / FC 18B	GYM	400	A: 50 B: 50	0.5	18,000	20,500	--	--	208-1-60	1*	TRANE-MITSUBISHI TPLFYP018FM140A	R410 REFRIGERATION OPER. WT. = 31 LBS NOTE #1, #2, #3, #4, #5, #6, #7

NOTES:
1. PROVIDE ALL REQUIRED MATERIALS & INSULATED REFRIGERANT LINES FOR COMPLETE INSTALLATION, SIZE RS/RL PIPING PER MANUFACTURERS GUIDELINES.
2. PROVIDE REQUIRED ACCESS TO INDOOR UNIT PER CMC.
3. PROVIDE PROGRAMMABLE THERMOSTAT.
4. PROVIDE CONTROL WIRING, CONDUIT, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
5. PROVIDE SECONDARY CONDENSATE DRAIN PAN FOR ALL DX COILS.
6. PROVIDE MERV 13 FILTER AT RETURN AIR PLENUM CONNECTION TO UNIT.
7. FANCOILS CORRESPOND TO MULTI-ZONE VRF SYSTEM.

*INDOOR UNITS POWERED BY OUTDOOR HEAT PUMP

SCHEDULE - AIR DISTRIBUTION

TAG	SERIES	CFM	DUTY	NECK	SIZE	DAMPER	MATERIAL	DESCRIPTION
CD-3	1400	SEE DWGS	SUPPLY	6Ø	12X12	YES	STEEL	STAMPED

NOTES:
A. REFER TO ARCHITECTURAL DRAWINGS FOR TYPE OF CEILING AND/OR SUSPENSION SYSTEM.
B. FINISH SHALL BE OF THE TYPE AND COLOR SELECTED BY ARCHITECT. SUBMIT FINISH CHART WITH SHOP DRAWINGS.
C. NC < 30.
D. NECK SIZES TO MATCH DUCT CONNECTION UNLESS NOTED OTHERWISE.

SELECTIONS ARE BASED ON PRODUCTIONS BY KRUEGER.
EQUAL PRODUCTS: TITUS, CARNES, METAL*AIRE & PRICE.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-267-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS				Horizontal
Inspector_____							Vertical
Date Completed_____							

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ADELEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

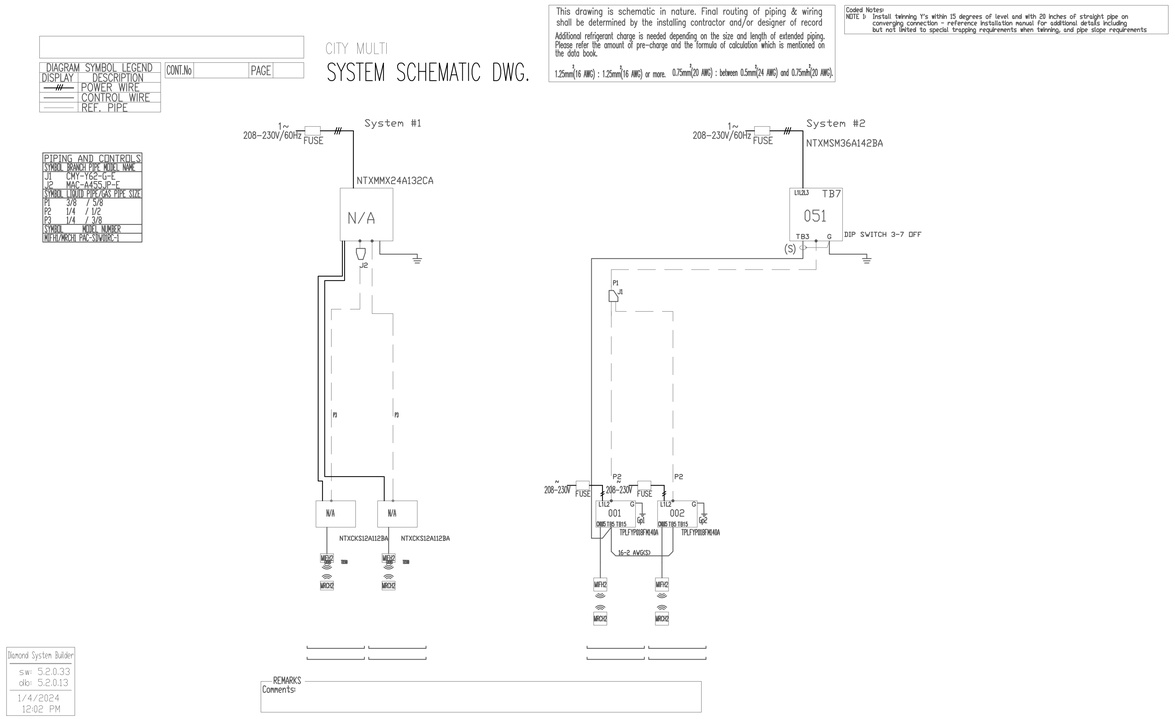
CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

HVAC EQUIPMENT SCHEDULES

Drawing No. M-1.1

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023jobs\TR Design Group, Architecture\23-414 Temecula Fire Station 73\MECH\23-414 Temecula Fire Station 73_Mechanical.dwgLast Saved:Wed Mar.,2026--8:02am

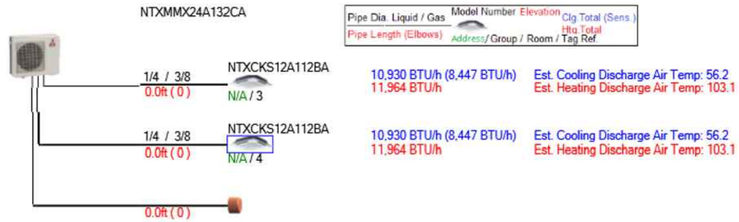


VRF WIRING SCHEMATIC - SYSTEM #1 & #2 (FOR REFERENCE ONLY)

SCALE:NONE

Centralized System - System #1

Piping Diagram Image (Design View)

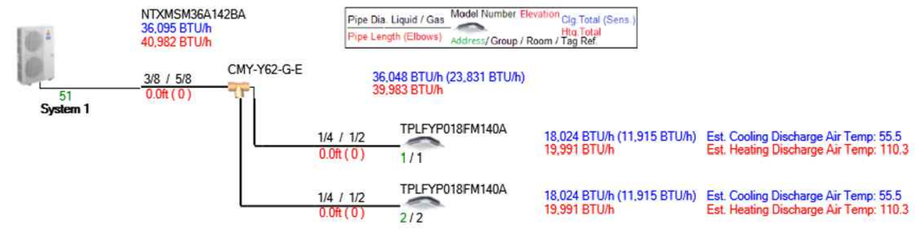


VRF PIPING DIAGRAM - SYSTEM #1 (FOR REFERENCE ONLY)

SCALE:NONE

Centralized System - System #2

Piping Diagram Image (Design View)



VRF PIPING DIAGRAM - SYSTEM #2 (FOR REFERENCE ONLY)

SCALE:NONE

PLYMOVENT®
clean air at work

TEV (60Hz)

TEV-359/3110/559/585/745/768

The TEV is a central extraction fan that is equipped with a lightweight aluminium impeller, making it suited to exhaust gases, volatile fumes and dust. Matched inlet and outlet areas, together with optimized impellers, ensure even airflow, high capacity and low noise level.

The fan is intended and designed for mounting filter units and vehicle exhaust extraction systems. The fan is rated for outdoor use.

2 PRODUCT DESCRIPTION

2.1 Components

The fan consists of the following main components:

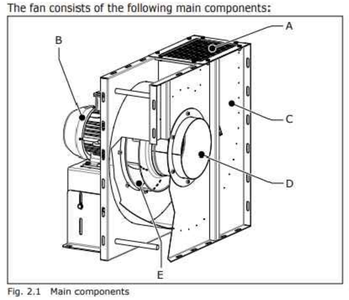


Fig. 2.1 Main components

A Outlet with debris screen
B Motor
C Housing
D Inlet
E Fan wheel

PLYMOVENT TEV-359 (FOR REFERENCE ONLY)

SCALE:NONE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92630
Tel: 949-267-9065

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS				Horizontal
Inspector_____							Vertical
Date Completed_____							

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ALIDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

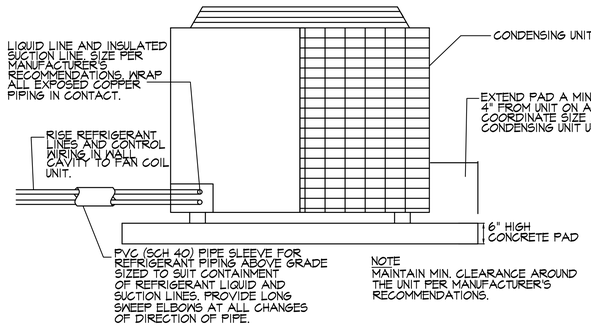
CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

HVAC REFERENCE SCHEMATICS

Drawing No. M-1.2

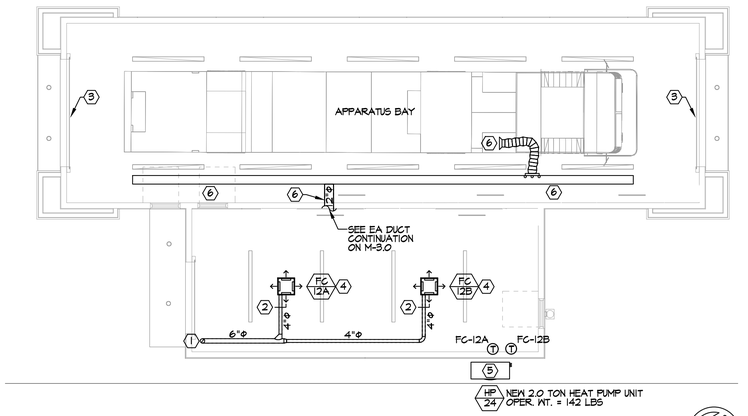
Sheet____of____

Z:\GMEP Engineers\Projects\2023\Jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwgLast Saved:Wed Mar,2026-8:02am



CONDENSING UNIT GROUND INSTALLATION

SCALE: NONE

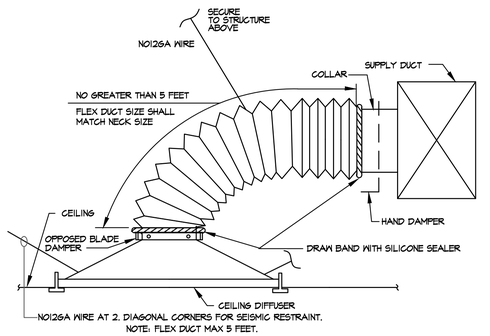


HVAC CEILING PLAN (APPARATUS & SHOP)

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

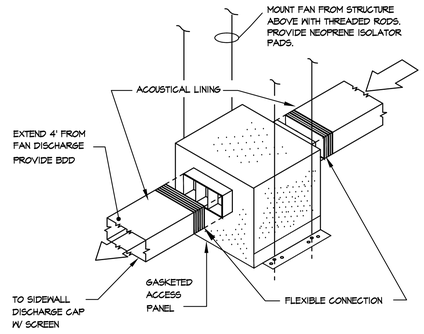
HVAC KEYED NOTES

1. 6"Φ OSA DUCT UP THRU ROOF W/ GOOSENECK
2. OSA DAMPER SET @ 50 CFM (TYP. 2)
3. ROLL-UP DOOR TO BE OPEN DURING BUSINESS HOURS.
4. NEW 1.0 TON FANCOIL UNIT. (TYP. 2) OPER. WT. = 91 LBS
5. COORDINATE FINAL LOCATION OF CONDENSER W/ OWNER & ARCHITECT
6. PLYMOVENT VEHICLE FUME EXTRACTION SYSTEM. DESIGNED BY OTHERS & SHOWN FOR REFERENCE ONLY. VERIFY INSTALLATION ADHERES TO MANUFACTURER INSTRUCTIONS.
7. 6"Φ OSA DUCT UP TO ROOF W/ GOOSENECK
8. 8"Φ OSA DUCT UP TO ROOF W/ GOOSENECK
9. NEW 1.5 TON FANCOIL UNIT. OPER. WT. = 91 LBS
10. OSA DAMPER SET @ 50 CFM (TYP. 2)
11. COORDINATE FINAL LOCATION OF CONDENSER W/ OWNER & ARCHITECT



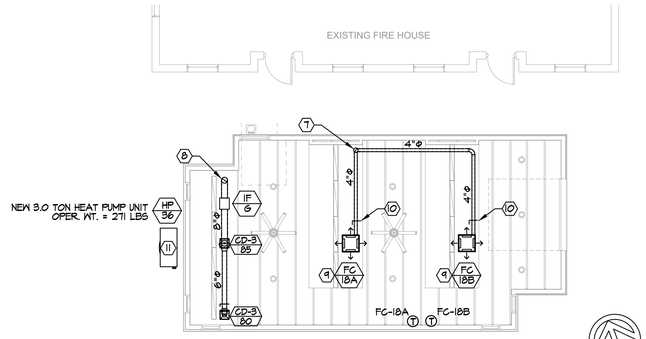
TYPICAL DIFFUSER CONNECTION (SIDE OF DUCT CONNECTION)

SCALE:NONE



IN-LINE FAN DETAIL

SCALE:NONE



HVAC CEILING PLAN (GYM)

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

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector						
Date Completed						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

Date

R.C.E. No.

RECOMMENDED BY: HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER DATE: 6/18/2026

ACCEPTED BY: RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE: 6/18/2026

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

HVAC CEILING PLAN

Drawing No. M-2.0

Sheet ____ of ____

TM-B24-5413/B25-0079

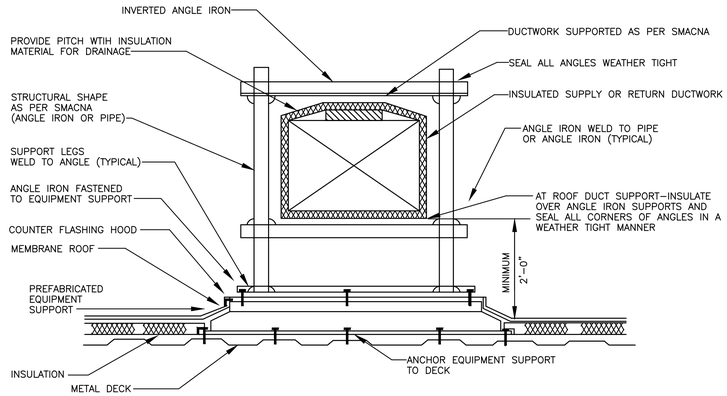
BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY: NAME DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-267-9095

Z:\GMEP Engineers\Projects\2023\jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwg Last Saved: Wed Mar. 19, 2026 - 8:02am



DUCT SUPPORT ON ROOF DETAIL

SCALE:NONE

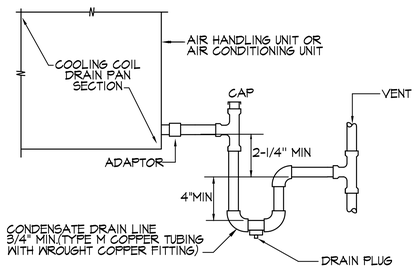


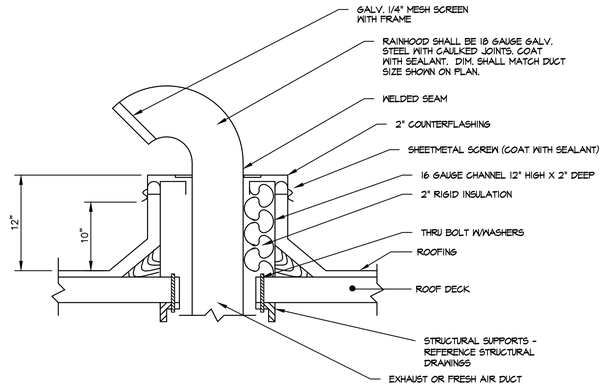
TABLE 310.3 CMC2022	
INT TONS CAPACITY	MIN CD PIPE SIZE
UP TO 20	3/4
21-40	1"
41-90	1-1/4"
91-125	1-1/2"
126-250	2"

NOTES:

1. ALL INTERIOR CONDENSATE DRAIN PIPING SHALL BE INSULATED.
2. SLOPE ALL CONDENSATE DRAIN LINES AT 1%.
3. CONDENSATE DRAIN PIPING SHALL BE TYPE "DWV" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 50-50 SOLDERED JOINTS.
4. ALL CONDENSATE LINES SHALL RUN ON THE UNDERSIDE OF THE ROOF STRUCTURE AND DRAIN INTO APPROVED LOCATION. REFER TO PLUMBING DRAWING. ROUTE SECONDARY DRAIN TO EXTERIOR OR PROVIDE A SHUTOFF FLOAT SWITCH.

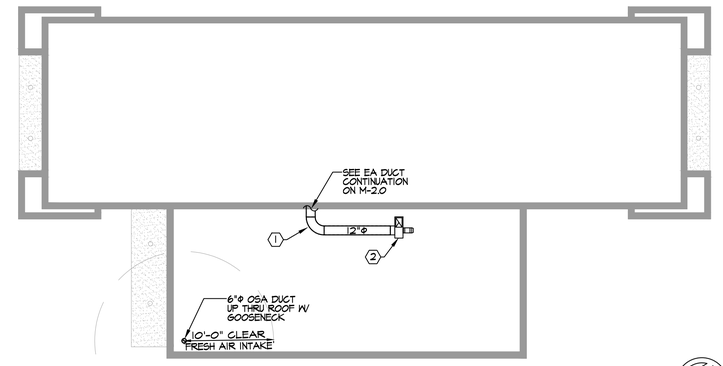
CONDENSATE PIPE

SCALE:NONE



GOOSENECK DETAIL

SCALE:NONE



HVAC ROOF PLAN (APPARATUS & SHOP)

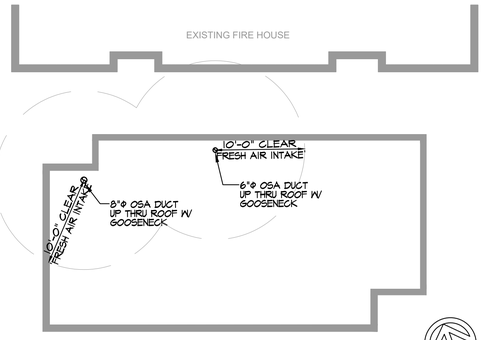
SCALE:1/8"=1'-0"

HVAC KEYED NOTES

1. PLYMOVENT VEHICLE FUME EXTRACTION SYSTEM. DESIGNED BY OTHERS & SHOWN FOR REFERENCE ONLY. VERIFY INSTALLATION ADHERES TO MANUFACTURER INSTRUCTIONS.
2. PLYMOVENT TEV-359 EXHAUST FAN W/ BACKDRAFT DAMPER. DESIGNED BY OTHERS & SHOWN FOR REFERENCE ONLY. ELEC. DATA: 208V / 3PH / 60Hz @ 2 HP

IMPORTANT BID NOTES

- THIS ROOF PLAN IS NOT DRAWN TO SCALE. THIS ROOF PLAN IS TRACED FROM THE ARCHITECTURAL DRAWINGS. THE ROOF PLANS ARE PROVIDED FOR REFERENCE ONLY TO CONVEY THE MECHANICAL DESIGN INTENTION.



HVAC ROOF PLAN (GYM)

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

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92630
Tel: 949-287-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDER, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

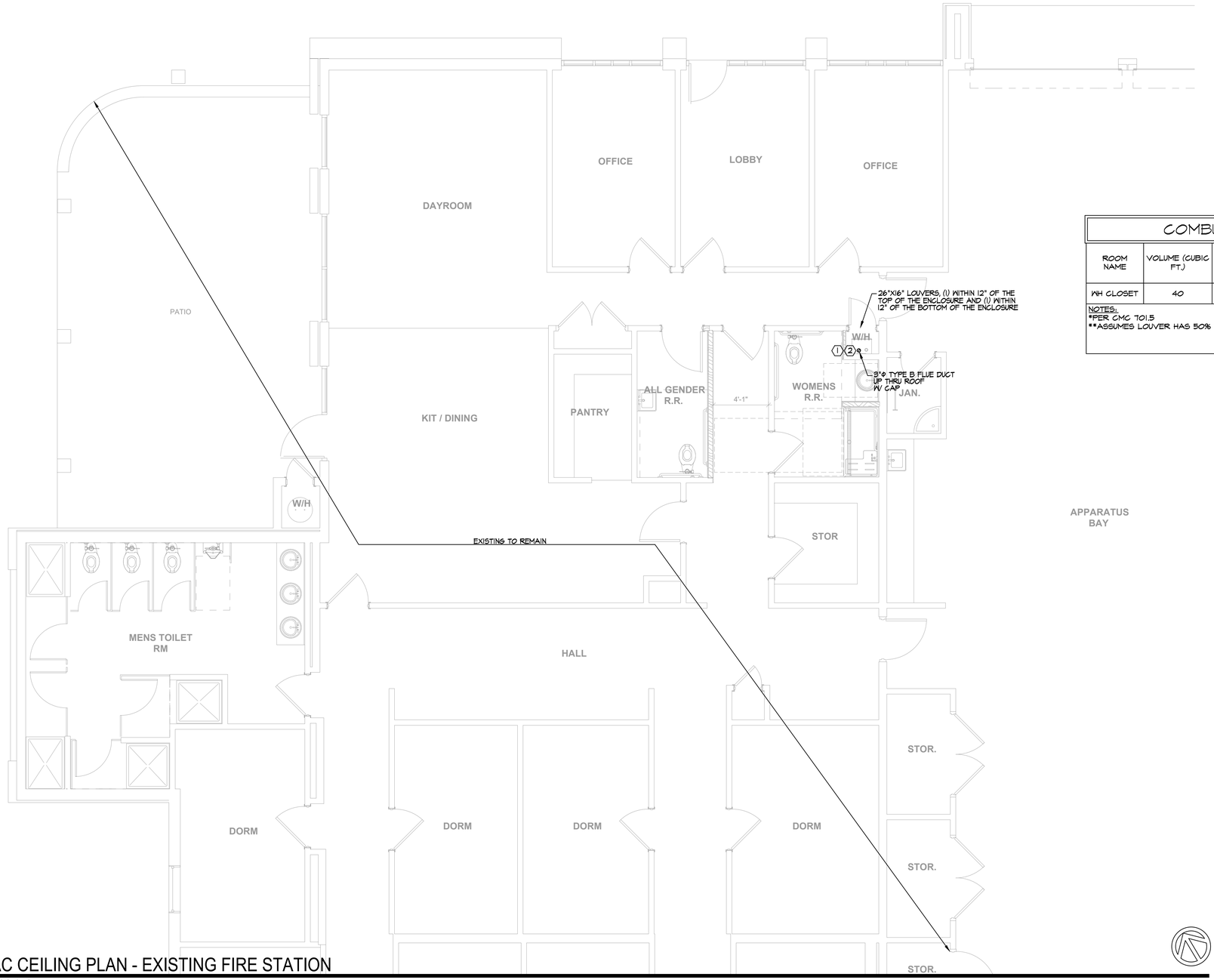
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

HVAC ROOF PLAN

Drawing No. M-3.0

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023\Jobs\TR Design Group, Architecture\23-414 Temecula Fire Station 73\MECH\23-414 Temecula Fire Station 73_Mechanical.dwg, Last Saved: Wed Mar. 11, 2026 - 8:02am



HVAC CEILING PLAN - EXISTING FIRE STATION

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

HVAC KEYED NOTES

1. KEEP 10FT CLEAR OF ANY FRESH AIR INTAKES, 3FT FROM BUILDING OPENINGS, AND 3FT FROM PROPERTY LINES (V.I.F.).
2. INSTALL PER MANUFACTURER INSTALLATION INSTRUCTIONS.

SCOPE OF WORK

1. SCOPE OF WORK AT EXISTING FIRE STATION IS NEW FLUE DUCT AND COMBUSTION AIR FOR NEW GAS TANKLESS WATER HEATER AT EXISTING WATER HEATER LOCATION.

COMBUSTION AIR CALCULATION

ROOM NAME	VOLUME (CUBIC FT.)	FURNACE GAS LOAD (BTUH)	REQUIRED FREE AREA (SQ. IN./BTUH)	CALCULATED FREE AREA (SQ. IN.)	REQUIRED VENT OPENING (SQ. IN.)
WH CLOSET	40	199,900	1/1000*	200	400**

NOTES:
*PER CMC 701.5
**ASSUMES LOUVER HAS 50% FREE AREA

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-287-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN AJIDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

HVAC CEILING PLAN - EXISTING FIRE STATION

Drawing No. M-4.0

Sheet____of____

Z:\GMEP Engineers\Projects\2023jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwg Last Saved: Wed Mar 04, 2026 - 8:02am

TABLE OF CONTENTS

Cover Page	1
Table of Contents	2
Form NRCC/LMCC-PRF-E Certificate of Compliance	3

BUILDING ENERGY ANALYSIS REPORT

PROJECT:

23-A14 Temecula Fire Station 73
27415 Enterprise Circle
Temecula, CA 92590

Project Designer:

TR Design Group
2900 Adams Street
Riverside, CA 92504
951.742.7179

Report Prepared by:

Will Carlton
GMEP Engineers
26439 Rancho Pkwy. Ste. 120
Lake Forest, CA 92630
949.267.9095x320

Job Number:

23-A14

Date:

1/4/2024

The EnergyPro computer program has been used to perform the calculations summarized in this compliance report. This program has approval and is authorized by the California Energy Commission for use with both the Residential and Nonresidential 2022 Building Energy Efficiency Standards.

This program developed by EnergySoft, LLC -- www.energysoft.com.

Project Name: 23-A14 Temecula Fire Station 73 **Date Prepared:** 2024-01-04

A. General Information

1	Project Name	23-A14 Temecula Fire Station 73			
2	Run Title	Title 24 Analysis			
3	Project Location	27415 Enterprise Circle			
4	City	Temecula	5	Standards Version	Compliance 2022
6	Zip code	92590	7	Compliance Software (version)	EnergyPro 9.1
8	Climate Zone	10	9	Building Orientation (deg)	180
10	Building Type(s)	• Nonresidential	11	Weather File	MARCH-AFB_STYP20.epw
12	Project Scope	• New envelope and mechanical	13	Number of Dwelling Units	0
14	Total Conditioned Floor Area in Scope (ft^2)	1430	15	Total # of hotel/motel rooms	0
16	Total Unconditioned Floor Area (ft^2)	0	17	Fuel Type	Natural gas
18	Nonresidential Conditioned Floor Area	1430	19	Total # of Stories (Habitable Above Grade)	1
20	Residential Conditioned Floor Area	0			

B. PROJECT SUMMARY

Table B shows which building components are included in the performance calculation. If indicated as not included, the project must show compliance prescriptively if within the permit application.

Building Components Complying via Performance						Building Components Complying Prescriptively	
Envelope (See Table G)	Nonres	Performance	Solar Thermal Water Heating (See Table I3)	☐	Performance	The following building components are ONLY eligible for prescriptive compliance and should be documented on the NRCC form listed if within the scope of the permit application (i.e. compliance will not be shown on the NRCC-PRF-E).	
	MultiFam	Not Included		☒	Not Included		
Mechanical (See Table H)	Nonres	Performance	Covered Process: Commercial Kitchens (see Table J)	☐	Performance	Indoor Lighting (Unconditioned) 140.6 & 170.2(e)	NRCC-LTI-E is required
	MultiFam	Not Included		☒	Not Included	Outdoor Lighting 140.7 & 170.2(e)	NRCC-LTO-E is required
Domestic Hot Water (See Table I)	Nonres	Performance	Covered Process: Laboratory Exhaust (see Table J)	☐	Performance	Sign Lighting 140.8 & 170.2(e)	NRCC-LTS-E is required
	MultiFam	Not Included		☒	Not Included	**Building Components Complying with Mandatory Measures**	
Lighting (Indoor Conditioned, see Table K)	Nonres	Not Included	Photovoltaics (see Table F)	☐	Performance	Electrical power systems, commissioning, solar ready, elevator and escalator requirements are mandatory and should be documented on the NRCC form listed if applicable (i.e. compliance will not be shown on the NRCC-PRF-E.)	
	MultiFam	Not Included		☒	Not Included	Electrical Power Distribution 110.11	NRCC-ELC-E is required
			Battery (see Table F)	☐	Performance	Commissioning 120.8	NRCC-CXR-E is required
				☒	Not Included	Solar and Battery 110.10	NRCC-SAB-E is required

C1. COMPLIANCE SUMMARY

COMPLIES[3]

	Time Dependent Valuaton (TDV)		Source Energy Use
	Efficiency[1] (kBtu/ft² - yr)	**Total[2] (kBtu/ft² - yr)**	**Total[2] (kBtu/ft² - yr)**
Standard Design	216.64	216.64	21.25
Proposed Design	197.54	197.54	14.21
Compliance Margins	**19.1**	**19.1**	**7.04**
	Pass	**Pass**	**Pass**

[1] Efficiency measures include improvements like a better building envelope and more efficient equipment
[2] Compliance Totals include efficiency, photovoltaics and batteries
[3] Building complies when efficiency and total compliance margins are greater than or equal to zero and unmet load hour limits are not exceeded

C2. TDV ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual TDV Energy Use, kBtu/ft² - yr)

COMPLIES[2]

Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Space Heating	6.95	11.82	-4.87
Space Cooling	66.94	60.46	6.48
Indoor Fans	76.11	58.43	17.68
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	21.51	21.7	-0.19
Indoor Lighting	45.13	45.13	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**216.64**	**197.54**	**19.1 (8.8%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**216.64**	**197.54**	**19.1 (8.8%)**

[1] Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92630
Tel: 949-267-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE
Horizontal
Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASDEH, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

TITLE 24 FORMS

Drawing No. T-24.0
Sheet_____of_____

Z:\GMEP Engineers\Projects\2023\Jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwg Last Saved: Wed Mar. 2026 - 8:02am

C5. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Receptacle	3.45	3.45	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**24.7**	**17.66**	**7.04 (28.5%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

C6. 'ABOVE CODE' QUALIFICATIONS

☐ This project is pursuing CalGreen Tier 1 ☐ This project is pursuing CalGreen Tier 2

C4. SOURCE ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kBtu/ft² /yr)

COMPLIES[2]

Energy Component	Standard Design (SOURCE)	Proposed Design (SOURCE)	Compliance Margin (SOURCE)[1]
Space Heating	0.98	1.66	-0.68
Space Cooling	2.91	2.49	0.42
Indoor Fans	6.3	4.92	1.38
Heat Rejection	0	0	0
Pumps & Misc.	0	0	0
Domestic Hot Water	7.75	1.83	5.92
Indoor Lighting	3.31	3.31	0
Flexibility	---	---	---
EFFICIENCY COMPLIANCE TOTAL	**21.25**	**14.21**	**7.04 (33.1%)**
Photovoltaics	---	---	---
Batteries	---	---	---
TOTAL COMPLIANCE	**21.25**	**14.21**	**7.04 (33.1%)**

[1] *Notes: This number in parenthesis following the Compliance Margin in column 4, represents the Percent Better than Standard.*

C3. TDV ENERGY RESULTS FOR NON-REGULATED COMPONENTS[1]

Non-Regulated Energy Component	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV)[1]
Receptacle	47.41	47.41	---
Process	---	---	---
Other Ltg	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	**264.05**	**244.95**	**19.1 (7.2%)**

[1] *Notes: This table is not used for Energy Code Compliance.*

G4. NONRESIDENTIAL AIR BARRIER

01	02
Building Story Name	Air Barrier
Com-Floor 1	No air barrier

G5. OPAQUE SURFACE ASSEMBLY SUMMARY

01	02	03	04	05	06		07	08	09	10
Surface Name	Construction Type	Area (ft²)	Framing Type	Cavity R-Value	Continuous R-Value		Units	Value	Description of Assembly Layers	Status[1]
					Interior	Exterior				
R-13 Wall8	Exterior Wall	2,070	Wood	13	N/A	N/A	U-factor	0.1015	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-1 Gypsum Board - 1/2 in.	N
R-19 Roof Cathedral12	Roof	1,430	Wood	19	N/A	N/A	U-factor	0.0499	AsphaltShingles0_25In Vapor permeable felt - 1/8 in. Plywood - 1/2 in. Air - Cavity - Wall Roof Ceiling - 4 in. or more Composite-2 Gypsum Board - 1/2 in.	N
Slab On Grade14	Underground Floor	1,430	N/A	0	N/A	N/A	F-factor	0.73	Slab Type =Unheated slab on grade Insulation Orientation =None Insulation R-Value =none	N
R-11 Wall16	Interior Wall	400	Wood	11	N/A	N/A	U-factor	0.1028	Stucco - 7/8 in. Vapor permeable felt - 1/8 in. Composite-3 Gypsum Board - 1/2 in.	N

[1] *Status: N - New, A - Altered, E - Existing*

C8. ENERGY USE INTENSITY (EUI)

	Standard Design (kBtu/ft² / yr)	Proposed Design (kBtu/ft² / yr)	Margin (kBtu/ft² / yr)	Margin Percentage
GROSS EUI[1]	37.33	29.59	7.74	20.73
NET EUI[1]	37.33	29.59	7.74	20.73

[1] *Notes: Gross EUI is Energy Use Total (not including PV)/Total Building Area. Net EUI is Energy Use Total (including PV)/Total Building Area.*

D1. EXCEPTIONAL CONDITIONS

• Project is claiming Exception 2 to Section 140.10(a): No PV system is required where the required PV system size is less than 4 kWdc.

G1. ENVELOPE GENERAL INFORMATION (conditioned spaces only)

01	02	03	04
Opaque Surfaces & Orientation	Total Gross Surface Area (ft²)	Total Fenestration Area (ft²)	Window to Wall Ratio (%)
North-Facing[1]	425	0	0
East-Facing[2]	410	0	0
South-Facing[3]	825	0	0
West-Facing[4]	410	0	0
Total	**2070**	**0**	**0**
Roof	1430	0	0

Notes
[1]*North-Facing is oriented to within 45 degrees of true north, including 45 00'00" east of north (NE), but excluding 45 00'00" west of north (NW),*
[2]*East-Facing is oriented to within 45 degrees of true east, including 45 00'00" south of east (SE), but excluding 45 00'00" north of east (NE),*
[3]*South-Facing is oriented to within 45 degrees of true south, including 45 00'00" west of south (SW), but excluding 45 00'00" east of south (SE),*
[4]*West-Facing is oriented to within 45 degrees of true west, including 45 00'00" north of west (NW), but excluding 45 00'00" south of west (SW),*

C7. ENERGY USE SUMMARY

Energy Component	Standard Design Site (MWh)	Proposed Design Site (MWh)	Margin (MWh)	Standard Design Site (MBtu)	Proposed Design Site (MBtu)	Margin (MBtu)
Space Heating	0.3	0.6	-0.3	---	---	---
Space Cooling	2.7	2.4	0.3	---	---	---
Indoor Fans	4	3.1	0.9	---	---	---
Heat Rejection	---	---	---	---	---	---
Pumps & Misc.	---	---	---	---	---	---
Domestic Hot Water	---	1.2	---	12.1	---	---
Indoor Lighting	2.5	2.5	0	---	---	---
Flexibility	---	---	---	---	---	---
EFFICIENCY TOTAL	**9.5**	**9.8**	**-0.3**	**12.1**	**0**	**12.1**
Photovoltaics	---	---	---	---	---	---
Batteries	---	---	---	---	---	---
ENERGY USE SUBTOTAL	**9.5**	**9.8**	**-0.3**	**12.1**	**0**	**12.1**
Receptacle	2.6	2.6	0	---	---	---
Process	---	---	---	---	---	---
Other Ltg	---	---	---	---	---	---
Process Motors	---	---	---	---	---	---
ENERGY USE TOTAL	**12.1**	**12.4**	**-0.3**	**12.1**	**0**	**12.1**

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S. Ste 120
Lake Forest, CA 92630
Tel: 949-287-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS				Horizontal
Inspector_____							Vertical
Date Completed_____							

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By | Drawn By | Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ALIDOUST, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

TITLE 24 FORMS

Drawing No. T-24.1

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023\Jobs\TR Design Group, Architecture\23-414 Temecula Fire Station 73\MECH\23-414 Temecula Fire Station 73_Mechanical.dwg Last Saved:Wed Mar.,2026-8:02am

I1. WATER HEATER EQUIPMENT SUMMARY

01 Name	02 Heater Element Type	03 Tank Type	04 Qty	05 Tank Vol (gal)	06 Rated Input	07 Rated Input Unit	08 Efficiency	09 Efficiency Unit	10 Tank Insulation R-value Int/Ext	11 Standby Loss Fraction	12 1st Hr. Rating or Flow Rate (gal)	13 Heat Pump Type	14 Tank Location or Ambient Condition
InstantaHot Electric2	Electricity	Instantaneous	1	1	1.83	kW	0.98	UEF	N/A	N/A	N/A	N/A	N/A

L. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections made by Documentation Author indicate which Certificates of Installation must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

Building Component	Form/Title
Envelope	NRCI-ENV-01-E - Must be submitted for all buildings
Envelope	NRCI-ENV-E - Envelope (for all buildings)
Mechanical	NRCI-MCH-01-E - Must be submitted for all buildings
Mechanical	NRCI-MCH-E - For all buildings with Mechanical Systems
Plumbing	NRCI-PLB-01-E - Must be submitted for all buildings
Plumbing	NRCI-PLB-E - For all buildings with Plumbing Systems

M. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections made by Documentation Author indicate which Certificates of Acceptance must be submitted for the features to be recognized for compliance. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP).

Building Component	Form/Title
Mechanical	NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap
Mechanical	NRCA-MCH-03-A - Constant Volume Single Zone HVAC

H8. SYSTEM SPECIAL FEATURES

01 System Name	02 Equipment Type	03 Interlocks per 140.4(n)[1]	04 Other Special Features and Controls
Water Heater1 - SHW	Service Hot Water	N/A	Fixed Temperature Control

Notes: This table includes controls related to the performance path only. For projects using the prescriptive path, mandatory and prescriptive controls requirements are documented on the NRCC-MCH-E.

[1] Yes = interlocks are provided, No = interlocks are not provided, NA means no operable openings.

H9. NONRESIDENTIAL / COMMON USE AREA & HOTEL/MOTEL VENTILATION

01 Zone Name	02 Mechanical Ventilation				06 Conditioned Area (sf)	07 DCV or Occupant Sensor Controls, or Both
	Ventilation Function	# of People	Supply OA CFM	Exhaust CFM		
1-2.0 TON VRF	Sports/Entertainment - Health club/aerobics room	6.2	93	0	620	N/A
2-3.0 TON VRF	Sports/Entertainment - Health club/aerobics room	8.1	121.5	0	810	N/A

H11. ZONAL SYSTEM AND TERMINAL UNIT SUMMARY

01 System ID	02 System Type	03 Qty	04 Rated Capacity (kBtu/h)		05 Airflow (cfm)			06 Fan			07 VSD
			Heating	Cooling	Design	Min.	Min. Ratio	Power	Power Units	Cycles	
1-2.0 TON VRF-Trm	Uncontrolled	1	N/A	N/A	800	N/A	0	N/A	N/A	N/A	☐
2-3.0 TON VRF-Trm	Uncontrolled	1	N/A	N/A	1,200	N/A	0	N/A	N/A	N/A	☐

H1. DRY SYSTEM EQUIPMENT (FURNACES, AIR HANDLING UNITS, HEAT PUMPS, VRF, ECONOMIZERS ETC.)

01 Equipment Name	02 Equipment Type	03 Qty	04 Heating		05 Heating	06 Heating	07 Heating	08 Cooling	09 Cooling	10 Cooling	11	12
			Total Heating Output (kBtu/h)		Supp Heat Output (kBtu/h)	Efficiency Unit	Efficiency	Total Cooling Output (kBtu/h)	Efficiency Unit	Efficiency	Economizer Type (if present)	Status[1]
2.0 TON VRF	Single Zone Heat Pump (SZHP) Air System	1	27.08		0	N/A	NA	22.08	EER SEER	14 18	No Economizer	N
3.0 TON VRF	Single Zone Heat Pump (SZHP) Air System	1	37.49		0	N/A	NA	33.6	EER SEER	14 18	No Economizer	N

[1] Status: N - New, A - Altered, E - Existing

H3. NONRESIDENTIAL / COMMON USE AREA FAN SYSTEMS SUMMARY

01 Name or Item Tag	02 Qty	03 Design OA CFM	04 Supply Fan		05 Supply Fan	06 Supply Fan	07 Supply Fan	08 Return / Relief Fan	09 Return / Relief Fan	10 Return / Relief Fan	11 Return / Relief Fan	12 Return / Relief Fan	13
			CFM	Power	Power Units	Control		Fan Type	CFM	Power	Power Units	Control	Status[1]
2.0 TON VRF	1	93	800	0.33	BHP	Constant Vol		N/A	N/A	N/A	N/A	N/A	N
3.0 TON VRF	1	121.5	1,200	0.33	BHP	Constant Vol		N/A	N/A	N/A	N/A	N/A	N

[1] Status: N - New, A - Altered, E - Existing

Documentation Author's Declaration Statement

1. I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Will Carlton	Documentation Author Signature: Will Carlton
Company: GMEP Engineers	Signature Date: 01/04/2024
Address: 26439 Rancho Pkwy. Ste. 120	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Lake Forest, CA 92630	Phone: 949.267.9095x320

Responsible Person's Declaration statement

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I understand that a registered copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections, and I will take the necessary steps to accomplish this requirement.
6. I understand that a registered copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy, and I will take the necessary steps to accomplish these requirements.

Responsible Designer Name: Rick Jaeger	Responsible Designer Signature:	
Company: TR Design Group		
Address: 2900 Adams Street	Date Signed:	
City/State/Zip: Riverside, CA 92504	License #:	
Phone: 951.742.7179	Title:	Scope:
Responsible Designer Name: Gangyi Zhou	Responsible Designer Signature: Gangyi Zhou	
Company: GMEP Engineers		
Address: 26439 Rancho Pkwy., Ste. 120	Date Signed: 01/04/2024	
City/State/Zip: Lake Forest, CA 92630	License #: M34279	
Phone: 949.267.9095	Title: MECHANICAL ENG.	Scope: MECHANICAL

N. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

Selections made by Documentation Author indicate which Certificates of Verification must be submitted for the features to be recognized for compliance. These documents must be retained and provided to the building inspector during construction and can be found online

There are no Certificates of Verification applicable to this project

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor	05/09/25		1 PLAN CHECK & REVISIONS				Horizontal
Inspector							Vertical
Date Completed							

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
Date
R.C.E. No.

RECOMMENDED BY: HOSSEIN ADEH, PE, PRINCIPAL CIVIL ENGINEER DATE: 6/18/2026
ACCEPTED BY: RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156 DATE: 6/18/2026

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-267-9095

TM-B24-5413/B25-0079
BUILDING AND SAFETY
REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY
APPROVED BY: NAME DATE

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS
TITLE 24 FORMS
Drawing No. T-24.2
Sheet of

Z:\GMEP Engineers\Projects\2023jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\MECH\23-A14 Temecula Fire Station 73_Mechanical.dwgLast Saved:Wed Mar.2026--8:02am

COPPER TYPE L PIPE SIZING CHART

FOR VELOCITY OF 8FPS (CW) AND 5FPS(HW); PRESSURE LOSS PER 100FT IN PSI=4.4

PIPE SIZE	COLD WATER			HOT WATER	
	TANK FU	F.V. FU	GPM	TANK FU	GPM
1/2"	1	-	2	1	2
3/4"	7	-	6	7	6
1"	16	-	12	16	12
1 1/4"	32	-	21	28	19
1 1/2"	60	16	33	46	27
2"	215	102	68	119	48
2 1/2"	455	329	115	245	74
3"	719	666	165	406	105
3 1/2"	1091	1041	220	585	140
4"	1668	1668	290	840	185

BASED ON CHART A 105.1(1) OF APPENDIX A IN THE CALIFORNIA PLUMBING CODE(CPC2022)

HOT WATER CONSUMPTION & SIZING CALCULATIONS

PLUMBING FIXTURE HOT WATER USE

FIXTURE TYPE	QTY	UNIT HOT WATER (GPM)	TOTAL HOT WATER (GPM)
SHOWER HEAD	1	2	2
LAVATORY	2	0.5	1.0
HAND SINK	1	0.5	0.5
MOP SINK	1	2	2
TOTAL HOT WATER (GPH)			5.5

TANKLESS WATER HEATER INFORMATION:

MANUFACTURER:RHEEM
MODEL #:RTGH-5111
TEMPERATURE RISE: 67 FAHRENHEIT
MAXIMUM GPM @ 67 FAHRENHEIT: 5.9

TOTAL NUMBER OF
WATER HEATERS REQUIRED:1

INSULATION TABLE FOR DOMESTIC HOT WATER PIPING

PIPE SIZE	< 1"	1" - 1-1/2"	2" & LARGER
INSULATION THICKNESS	1"	1-1/2"	2"

ALL INSULATION SHALL BE W/R VALUES OF 4.0 TO 4.6 & SHALL MEET THE CALIFORNIA QUALITY STANDARD PER SECTION 118 E.E.S 25/50 SMOKE/FLAME SPREAD RATING.

TYPICAL WATER CALCULATIONS

STREET PRESSURE: 65PSI*
METER SIZE: EXISTING METER
PIPE MATERIAL: TYPE "L" COPPER
COLD WATER MAX. VEL.= 8 FPS; HOT WATER MAX. VEL.=5FPS

	COLD WATER
1. 2" METER LOSS, PSI	0.5
2. 15FT STATIC LOSS, PSI	6.5
3. MINIMUM PRESSURE REQUIRED, PSI	25
4. BACKFLOW PREVENTER, PSI	11
5. TOTAL LOSSES, PSI (1 THRU 4)	43
6. WATER PRESSURE (MIN), PSI	65
7. PRESSURE AVAILABLE FOR FRICTION, PSI	22
8. ACTUAL LENGTH OF SYSTEM, FT	375
9. DEVELOPED LENGTH (130% OF ITEM 8	487.5
10. AVERAGE PRESSURE DROP, PSI/100FT	4.51

NOTE: *IF STREET PRESSURE EXCEEDS 80 PSI, A PRESSURE REDUCING VALVE IS TO BE INSTALLED TO REDUCE THE PRESSURE TO 80PSI.

FIXTURE SCHEDULE

ITEM	DESCRIPTION	MAKE/MODEL	TRAP	WASTE	VENT	COLD WATER	HOT WATER	REMARKS
(E)WH-1	WATER HEATER	EXISTING TO REMAIN	-	-	-	1"	1"	EXISTING TANK WATER HEATER TO REMAIN.
WH-2	GAS WATER HEATER	RHEEM RTGH-5111	-	-	-	1"	1"	199,999 BTU TANKLESS WATER HEATER. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE.
(E)WC-1	WATER CLOSET, FLUSH VALVE, 1.28 GPF	EXISTING TO REMAIN	-	4"	2"	1-1/2"	-	EXISTING TO REMAIN.
(E)WC-2	WATER CLOSET, FLUSH VALVE, ADA TYPE. 1.28 GPF	EXISTING TO REMAIN	-	4"	2"	1-1/2"	-	EXISTING TO REMAIN.
WC-3	WATER CLOSET, FLUSH VALVE, ADA TYPE. 1.28 GPF	KOHLER K-76057 W/ K-76321	-	4"	2"	1-1/2"	-	1.28 GPF. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
(E)L-1	LAVATORY	EXISTING TO REMAIN	1-1/2"	2"	2"	3/4"	3/4"	EXISTING TO REMAIN.
(E)L-2	LAVATORY	EXISTING TO REMAIN	1-1/2"	2"	2"	3/4"	3/4"	EXISTING TO REMAIN.
L-3	LAVATORY	KOHLER K-2084-N	1-1/2"	2"	2"	3/4"	3/4"	0.5 GPM SELF-CLOSING/METERING FAUCET. VERIFY SELECTION W/ ARCH & OWNER.
HS-1	HAND SINK	REGENCY 600HS1TDM	1-1/2"	2"	1-1/2"	3/4"	3/4"	1.8 GPM FAUCET. SELECTION TBD BY OWNER.
(E)HS-2	HAND SINK	EXISTING TO REMAIN	1-1/2"	2"	1-1/2"	3/4"	3/4"	EXISTING TO REMAIN
DF-1	DRINKING FOUNTAIN	HALSEY TAYLOR HTHB-HACDBL	1-1/2"	2"	1-1/2"	1/2"	1/2"	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
FS-1	FLOOR SINK	ZURN Z1901	1-1/2"	2"	2"	-	-	12" X 12" FLOOR SINK. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
TD-1	TRENCH DRAIN	ZURN Z886-HD	1-1/2"	2"	2"	-	-	60' X 6-3/4" MODULAR TRENCH DRAIN. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
IWH-1	INSTA-HOT WATER HEATER	CHRONOMITE SR20L	-	-	-	3/4"	3/4"	CHRONOMITE SR20L 120V 2400W 1 PHASE OR EQUAL. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
HBB-1	HOSE BIBB	WOODFORD B65	-	-	-	3/4"	-	SELECTION TBD BY OWNER. PROVIDE ANTI-SIPHON DEVICE.
RPBFP -1	BACKFLOW PREVENTER	WATTS 5D-3	-	-	-	-	-	VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE
SOI-1	SAND OIL INTERCEPTOR	JENSEN JPSOOSO	-	2"	4"	-	-	500 GALLON SAND OIL INTERCEPTOR. VERIFY W/ OWNER OR ARCHITECT FOR EXACT FIXTURE SPECIFICATION BEFORE PURCHASING FIXTURE.

*PLUMBING FIXTURES MUST COMPLY WITH GREEN BUILDING STANDARDS

FIXTURE UNIT CALCULATIONS NEW BUILDINGS

FIXTURE TYPE	QTY	DOMESTIC WATER				DRAINAGE	
		FIXTURE DEMAND	HOT DEMAND	TOTAL WATER DEMAND (WSFU)	TOTAL HOT WATER DEMAND	DFU	TOTAL
HAND SINK	1	1.5	1.5	1.5	1.5	2	2
HOSE BIBB	1	2.5	0.0	2.5	0.0	0	0
ADDITIONAL HOSE BIBB	1	1.0	0.0	1.0	0.0	0	0
DRINKING FOUNTAIN/ICE MACHINE	3	0.5	0.0	1.5	0.0	1	3
TRENCH DRAIN	1	0.0	0.0	0.0	0.0		#
FLOOR SINK	1	0.0	0.0	0.0	0.0	2	2
TOTAL FIXTURE UNITS				6.5	1.5		7
EQUIVALENT WATER DEMAND IN GPM				14	11		
REQUIRED MINIMUM PIPE SIZE				1"	1"		4"

GENERAL PLUMBING NOTES

1. EXISTING CONDITIONS ARE BASED ON LIMITED FIELD VERIFICATION. CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE TENANT.
2. ALL CONTRACTORS SHALL REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS. PLUMBING CONTRACTOR SHOULD COORDINATE HIS WORK WITH ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION AND SIZE OF ALL OPENINGS, LOCATIONS OF EQUIPMENT PAD, AND CHANGES OF ELEVATIONS.
3. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH DEMOLITION RESPONSIBLE TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. VERIFY LOCATION, ELEVATIONS, AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ARCHITECT FOR RESOLUTION. NO EXCEPTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD VERIFICATION OF ALL UTILITY RUNS, UNDERGROUND AND ABOVE GROUND PIPING AND/OR OTHER IMPROVEMENTS LOCATED ON THE PREMISES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL COSTS RELATING TO THE RELOCATION OF, DAMAGE TO, REPAIR OF ANY EXISTING UTILITY RUNS AND/OR IMPROVEMENTS WHICH ARE DAMAGED AS A RESULT OF WORK IN OR AROUND THE PREMISES.
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SPECIFICATIONS, LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES. NO EXCEPTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE ACCURATE AS-BUILT DRAWINGS DURING CONSTRUCTION AND SUBMIT FOR APPROVAL UPON COMPLETION OF INSTALLATION.
8. CONTRACTOR SHALL FINISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETING THE WORK. ALL MATERIALS AND WORK SHALL COMPLY WITH APPLICABLE CODES AND REGULATIONS AND MEET THE APPROVAL OF STATE & LOCAL JURISDICTION.
9. WATER HEATER SHALL BE CERTIFIED BY THE MANUFACTURER AND MUST COMPLY WITH THE EFFICIENCY STANDARDS OF THE CALIFORNIA ENERGY COMMISSION, 2022 EDITION.
10. ALL HOT WATER PIPING SHALL BE INSULATED WITH ARMSTRONG "ARMAFLEX" INSULATION PER SECTION 609.12 OF THE 2022 PLUMBING CODE AND TABLE 120.3-A, SECTION 120.3 OF THE 2022 CALIFORNIA ENERGY CODE.
11. CONTRACTOR SHALL VERIFY WATER PRESSURE CONDITIONS AT THE PROJECT SITE. CONTRACTOR SHALL PROVIDE INSTALL A PRESSURE REGULATOR WHERE THE SUPPLY PRESSURE EXCEEDS 80 PSI.
12. ALL PIPING SHALL BE SUPPORTED AT INTERVAL NOT TO EXCEED THOSE SHOWN IN CPC TABLE 313.3
13. ALL POTABLE WATER OUTLETS WITH HOSE ATTACHMENTS, SUCH AS HOSE BIBS, AND MOP SINKS ARE TO BE PROVIDED WITH A BACKFLOW/ANTI-SIPHON DEVICE.
14. ALL CONCEALED PIPING SHALL BE INSTALLED PER CALIFORNIA PLUMBING CODE 2022. NO EXCEPTION.
15. LAVATORIES IN PUBLIC RESTROOMS SHALL BE LIMITED TO 0.56PM
16. ALL FAUCETS SHALL COMPLY WITH CALIFORNIA PROPOSITION 65 AND SHALL BE CERTIFIED TO NSF STANDARD 61 SECTION 9 FOR DRINKING WATER COMPONENTS.
17. ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER SEC. 707.0 & 719.0 OF THE 2022 CALIFORNIA PLUMBING CODE.
18. FLOOR DRAINS OR SIMILAR TRAPS DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM AND SUBJECT TO INFREQUENT USE SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEALS.
19. NEW WATER CLOSET AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 1.28 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN STANDARDS INSTITUTE STANDARD A112.19.2 H45 CODE, SECTION 1714.21.3(B).
20. NEW URINALS AND ASSOCIATED FLUSHMETER VALVES SHALL BE NO MORE THAN 0.125 GALLONS PER FLUSH AND SHALL MEET THE AMERICAN STANDARDS INSTITUTE STANDARD A112.19.2 H45 CODE, SECTION 1714.21.3(B).
21. ALL PLUMBING VENTS SHALL TERMINATE NOT LESS THAN TEN(10) FEET FROM OR AT LEAST THREE (3) FEET ABOVE ANY DOOR, OPENING, FRESH AIR INTAKE OR VENT SHAFT.
22. SLOPE ALL CONDENSATE DRAIN LINES AT 1% AND SLOPE ALL SEWER PIPING MINIMUM OF 2%.
23. WASTE & VENT PIPING MATERIAL: SHALL BE ABS/PVC OR AB&I SERVICE WEIGHT CAST IRON NO-HUB SOIL PIPE AND FITTINGS WITH NO-HUB CLAMPS. MUST CONFORM TO CISPI STANDARD 301.04a & 310.04 AND CLEARLY MARKED WITH THE CAST IRON SOIL PIPE INSTITUTE TRADEMARK, MANUFACTURER'S NAME AND COUNTRY OF ORIGIN. ABS/PVC CAN BE USED IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION.
24. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND. ALL ROUND PIPE IN ACCORDANCE WITH NSI/AWWA STANDARD C105/A21.5-82.
25. WATER PIPE SHALL BE TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS, SOLDER ALL JOINTS WITH LEAD-FREE SOLDER.
26. CONDENSATE DRAIN PIPE SHALL BE TYPE "DWV" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 50-50 SOLDERED JOINTS. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.
27. NEW OR REPAIRED PORTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHODS IN CPC 2022 609.1.0. NO EXCEPTION.
28. CONTRACTOR TO PROVIDE THERMOSTATIC MIXING VALVES FOR PUBLIC-USE LAVATORIES TO LIMIT TEMPERATURE TO A MAXIMUM OF 120 DEGREES FAHRENHEIT (2022 CPC 407.3).
29. THIS DOCUMENT IS NOT FOR BID OR CONSTRUCTION UNTIL THE PLAN HAS BEEN REVIEWED AND APPROVED BY ALL AUTHORITIES HAVING JURISDICTION AND THE PERMIT IS OBTAINED. NO COMPENSATION WILL BE MADE FOR ADDITIONAL WORK DUE TO THE VIOLATION OF THIS REQUIREMENT.
30. THIS PROJECT MUST COMPLY WITH THE CALIFORNIA PLUMBING CODE 2022.

PIPING SYMBOLS

SYMBOL	MEANING
——— – ——— – ———	DOMESTIC COLD WATER
——— – – ———	DOMESTIC HOT WATER
——— – – – ———	DOMESTIC H.W. CIRCULATING
— — — — — — —	SANITARY SEWER
– – – – – – – – –	VENT PIPING
— — — — — — —	STORM DRAIN PIPING
— ——— ——— —	GREASE WASTE
——— G ———	GAS
——— CD ———	CONDENSATE DRAIN

SYMBOL	MEANING
FD	FLOOR SINK
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN
	GAS COCK
TUB-1	PLUMBING FIXTURE
	CONNECT TO EXISTING
	SHUT-OFF VALVE
	RECIRCULATION PUMP
	PIPE CAP
	PIPE ELBOW DOWN
	PIPE ELBOW UP

SCOPE OF WORK

NEW APPARATUS, NEW GYM AND REMODELED REST ROOM IN EXISTING FIRE STATION.

NOTE: CONTRACTOR IS TO VERIFY EXISTING CONDITIONS BEFORE BID.

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-257-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE
Horizontal
Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of
_____ Date_____
R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ANDERSON, PE, PRINCIPAL CIVIL ENGINEER
ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA — DEPARTMENT OF PUBLIC WORKS

PLUMBING GENERAL NOTES

Drawing No. P-1.0

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\PLBG\23-A14 Temecula Fire Station 73_Plumbing.dwgLast Saved:Wed Mar,2026--8:17am

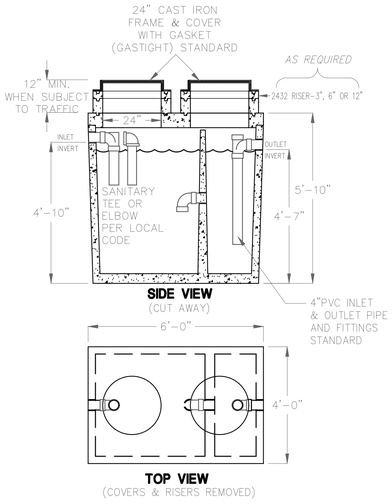
KEY PLAN

SCALE:NONE

500 GALLON SAND-OIL INTERCEPTOR

MODEL JP500SO

TRAFFIC RATED ACCEPTED BY UPC

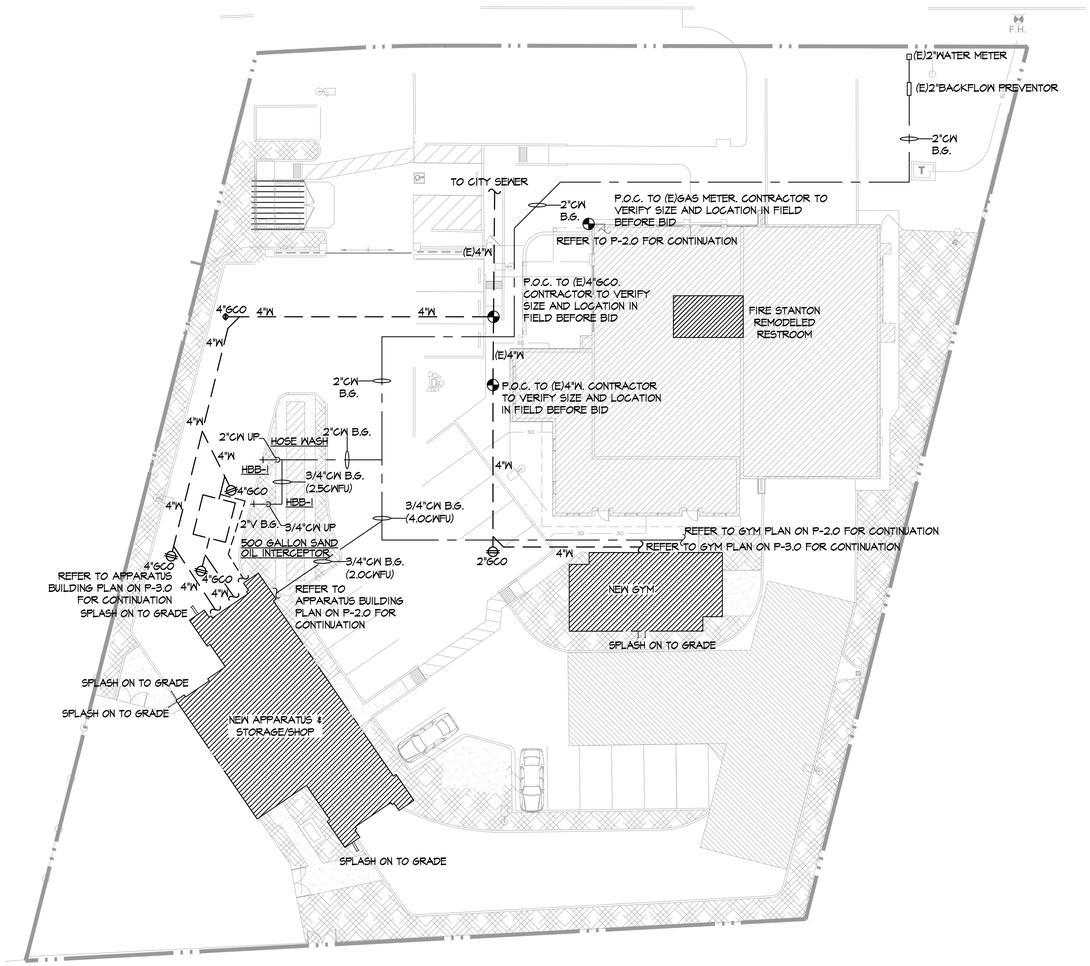


- LIQUID CAPACITY: 500 GALLONS.
- TANK DESIGNED FOR H-20 TRAFFIC WHEEL LOAD WITH DRY SOIL CONDITIONS (WATER TABLE BELOW TANK) EARTH COVER OVER TANK NOT TO EXCEED 6 FT.
- SUITABLE NATIVE OR SUB-BASE SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS. THE EXCAVATION SHALL BE BEDDED WITH SUITABLE GRANULAR MATERIAL AND SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY, OR TO REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

MINIMUM EXCAVATION SIZE: EXCAVATION

SAND OIL INTERCEPTOR

SCALE:NONE



PLUMBING - SITE PLAN

SCALE:1"=20'-0"

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT

CALL TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-257-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN KAMKAR, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

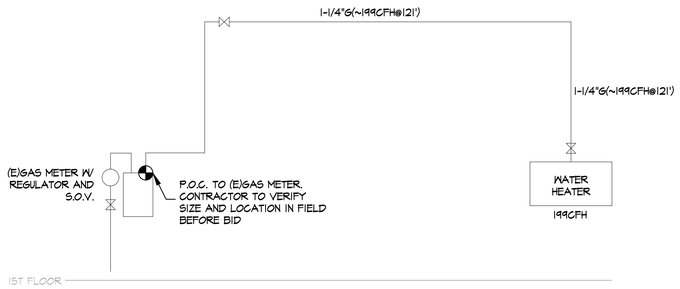
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

PLUMBING SITE PLAN

Drawing No. P-1.1

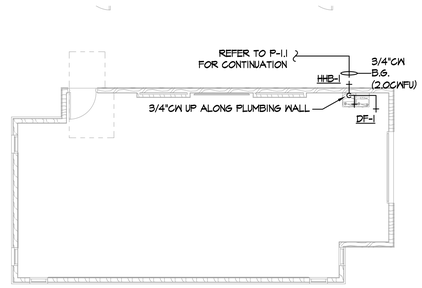
Sheet____of____

Z:\GMEP Engineers\Projects\2023\Jobs\TR Design Group, Architecture\23-414 Temecula Fire Station 73\PUBC\23-414 Temecula Fire Station 73_Plumbing.dwg Last Saved:Wed Mar.,2026-8:17am



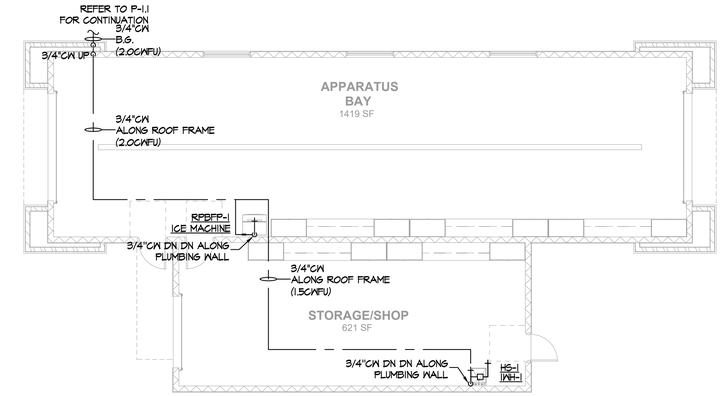
PLUMBING RISER - GAS

SCALE:NONE



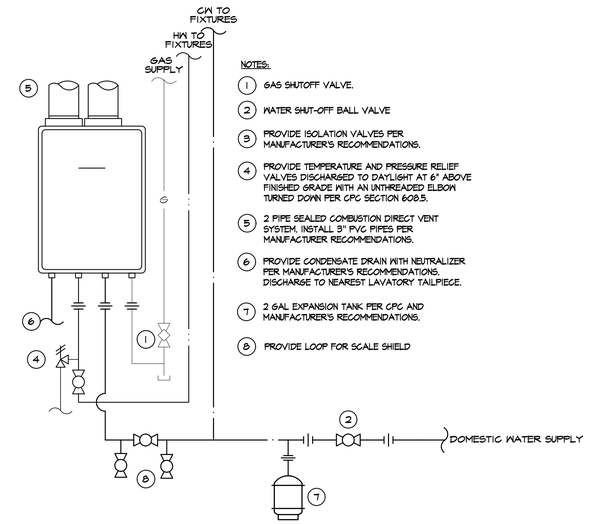
PLUMBING - GYM - COLD/HOT WATER

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



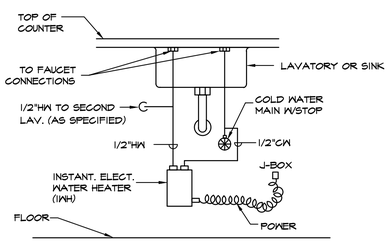
PLUMBING - APPARATUS BUILDING - COLD/HOT WATER

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



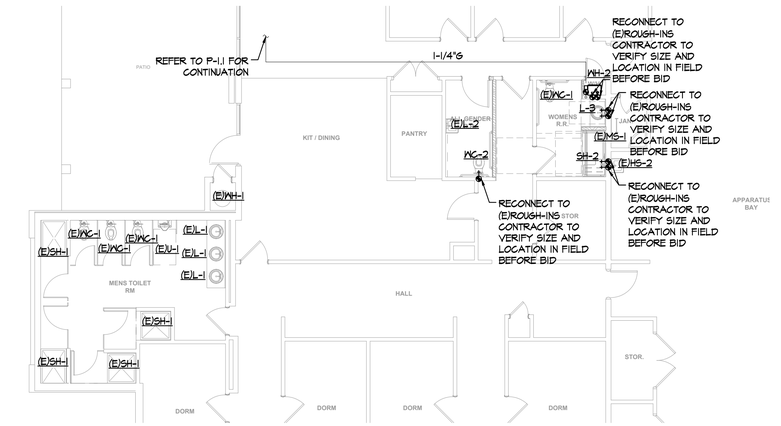
CONDENSING TANKLESS WATER HEATER

SCALE:NONE



INSTANTANEOUS WATER HEATER DETAIL

SCALE:NONE



PLUMBING - FIRE STATION - COLD/HOT WATER & GAS

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

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S, Ste 120
Lake Forest, CA 92630
Tel: 949-257-9065

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASADI, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

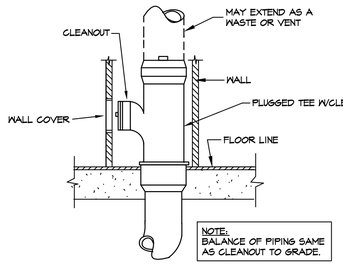
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

PLUMBING COLD/HOT WATER & GAS

Drawing No. P-2.0

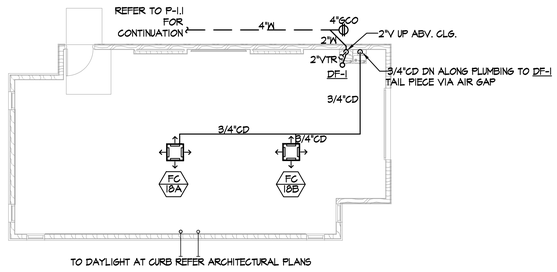
Sheet_____of_____

Z:\GMEP Engineers\Projects\2023Jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\PLBG\23-A14 Temecula Fire Station 73_Plumbing.dwgLast Saved:Wed Mar,2026-8:17am



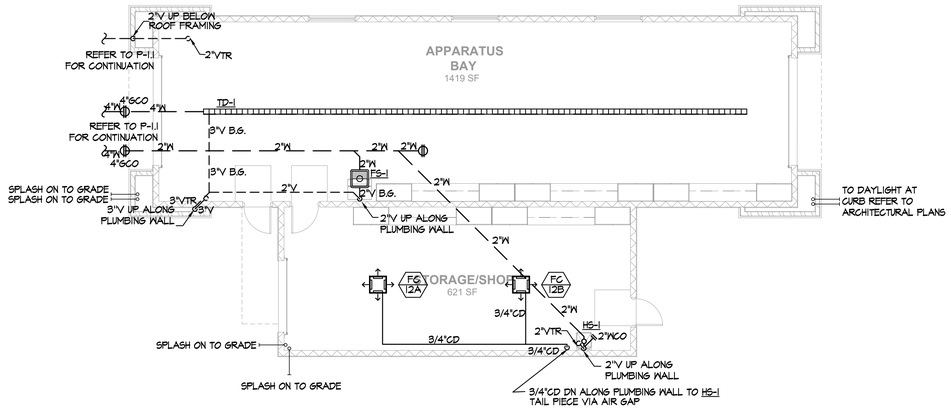
TYPICAL WALL CLEANOUT

SCALE:NONE



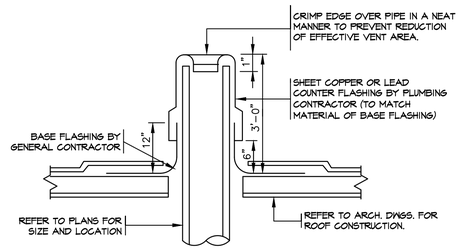
PLUMBING - GYM - WASTE & VENT

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



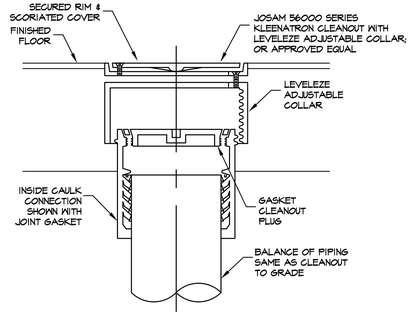
PLUMBING - APPARATUS BUILDING - WASTE & VENT

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



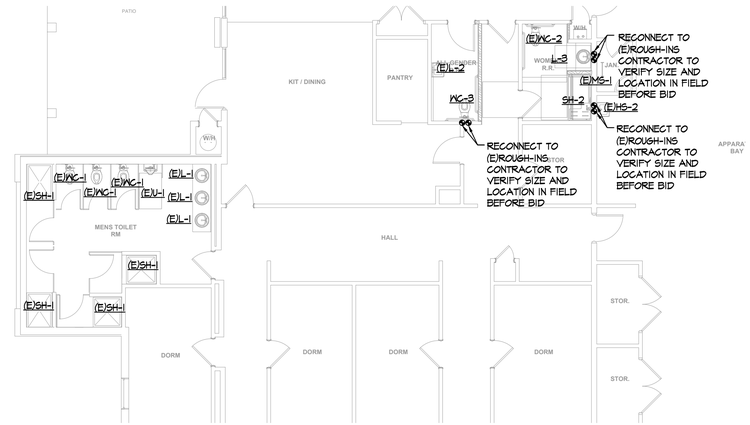
TYPICAL VENT THROUGH ROOF

SCALE:NONE



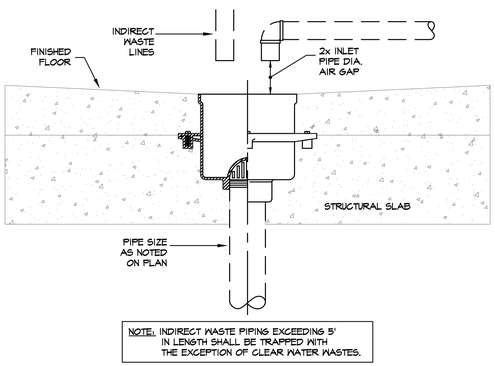
TYPICAL FLOOR CLEANOUT

SCALE:NONE



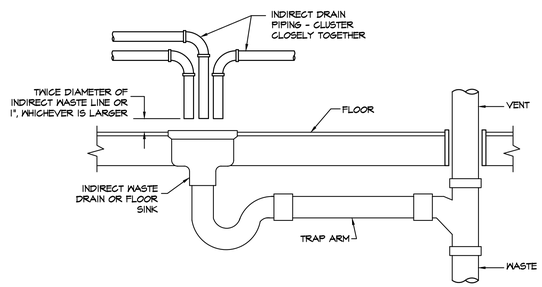
PLUMBING - FIRE STATION - WASTE & VENT

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



TYPICAL FLOOR SINK

SCALE:NONE



TYPICAL INDIRECT DRAIN

SCALE:NONE

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

UNDERGROUND SERVICE ALERT
CALL TOLL FREE 1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-287-9095

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS			
Inspector_____						
Date Completed_____						

SCALE: Horizontal / Vertical

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ASHDEN, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS / CITY ENGINEER R.C.E. No. 69156

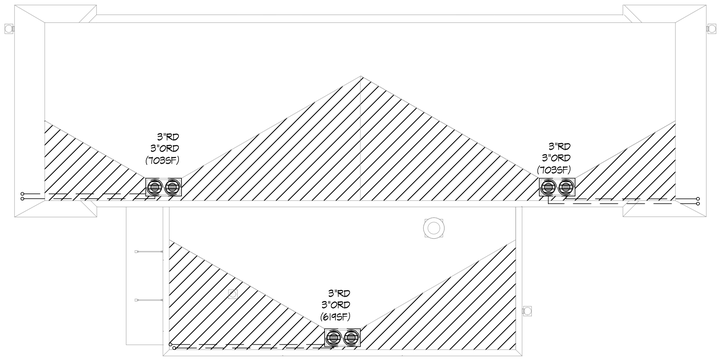
CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

PLUMBING WASTE & VENT

Drawing No. P-3.0

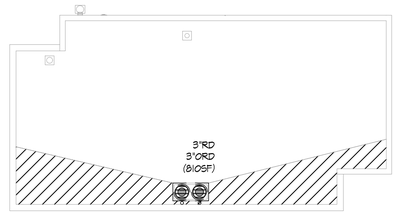
Sheet_____of_____

C:\Users\klouse\AppData\Local\Temp\AcPublish_19441\23-414 Temecula Fire Station 73_Plumbing.dwgLast Saved:Thu Apr,2026-3:10pm



PLUMBING - APPARATUS BUILDING - ROOF TOP

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



PLUMBING - GYM - ROOF TOP

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

TM-B24-5413/B25-0079

BUILDING AND SAFETY

REVIEWED FOR COMPLIANCE WITH
TITLE 24 DISABLED ACCESSIBILITY ONLY

APPROVED BY:_____ NAME _____ DATE

GMEP ENGINEERS
26439 Rancho Pkwy. S., Ste 120
Lake Forest, CA 92630
Tel: 949-257-9095

UNDERGROUND SERVICE ALERT
CALL TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

CONSTRUCTION RECORD	DATE	BY	NO. REVISIONS	ACC'D	DATE	BENCH MARK	SCALE
Contractor_____	05/09/25		1 PLAN CHECK & REVISIONS				Horizontal
Inspector_____							Vertical
Date Completed_____							

SEAL: REGISTERED PROFESSIONAL ENGINEER GANGYI ZHOU No. M34279 Exp.12-31-2026 MECHANICAL STATE OF CALIFORNIA

Designed By	Drawn By	Checked By

Plans Prepared Under Supervision Of

_____ Date_____

R.C.E. No. _____

RECOMMENDED BY: _____ DATE: 6/18/2026
HOSSEIN ARDEH, PE, PRINCIPAL CIVIL ENGINEER

ACCEPTED BY: _____ DATE: 6/18/2026
RON MORENO, PE, DIRECTOR OF PUBLIC WORKS
/ CITY ENGINEER R.C.E. No. 69156

CITY OF TEMECULA DEPARTMENT OF PUBLIC WORKS

PLUMBING ROOF TOP

Drawing No. P-4.0

Sheet_____of_____

Z:\GMEP Engineers\Projects\2023jobs\TR Design Group, Architecture\23-A14 Temecula Fire Station 73\PLBG\23-A14 Temecula Fire Station 73_Plumbing.dwg Last Saved: Wed Mar. 2026 - 8:17am