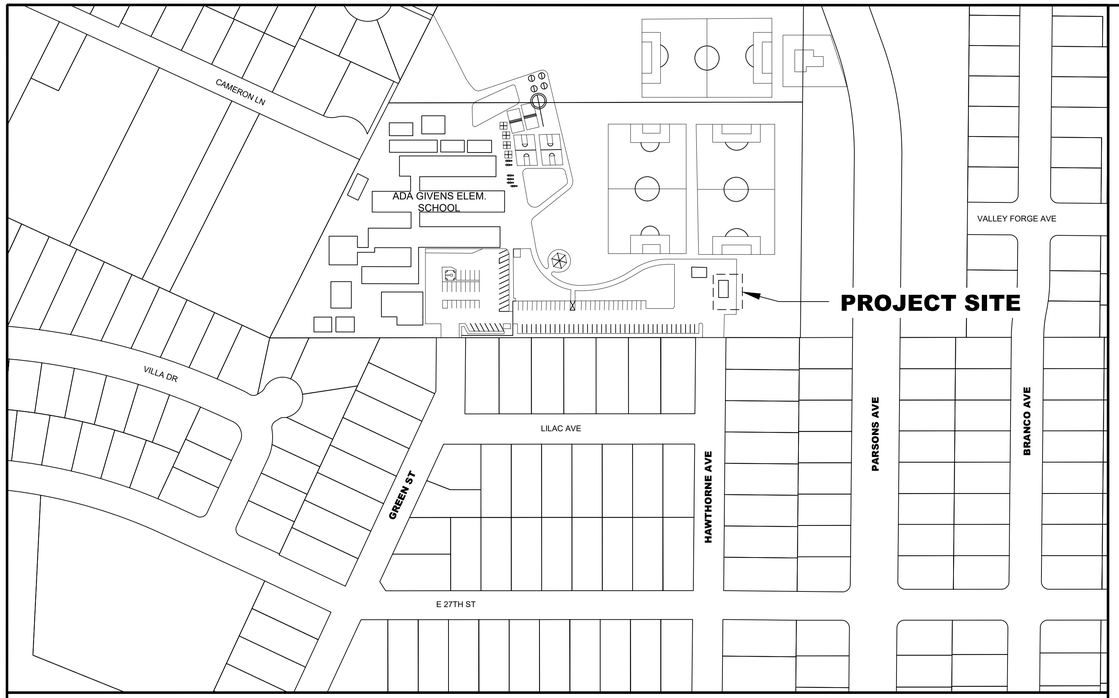

LOCATION MAP - NTS

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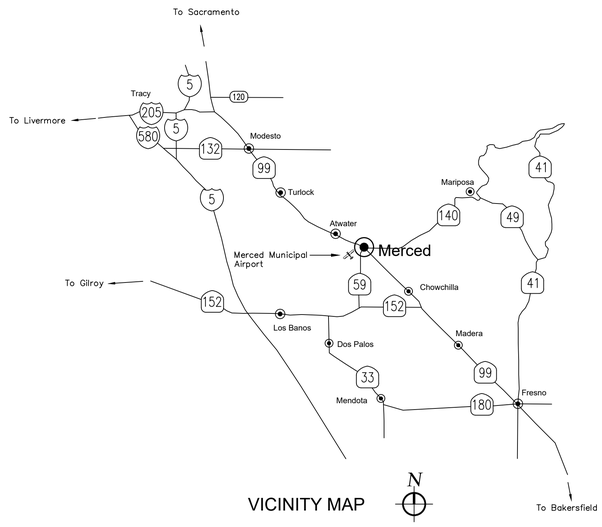
CITY OF MERCED
PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION



VICINITY MAP

N

APPROVALS

CITY OF MERCED
ENGINEERING DEPARTMENT
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th St., Merced CA. 95340 (209) 385-6846

MICHAEL R. BELTRAN II, P.E.
CITY ENGINEER — DATE

CHRISTOPHER JENSEN
PROJECT CHAMPION — DATE

SHEET INDEX

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CURRENT APPLICABLE BUILDING CODES, THE CALIFORNIA BUILDING CODE, CITY OF MERCED STANDARD AND CALTRANS STANDARD PLANS AND SPECIFICATIONS.

2. CONTRACTOR SHALL EXAMINE CONSTRUCTION DRAWINGS AND SPECIFICATION AND SHALL VISIT SITE PRIOR TO SUBMITTING A PROPOSAL. CONTRACTOR SHALL INSPECT EXISTING CONDITIONS, WHICH AFFECT THE WORK SHOWN, AND SHALL NOTIFY THE ENGINEERING DEPARTMENT OF ANY EXISTING CONDITIONS WHICH CONFLICT WITH OR DIFFER FROM THE WORK SHOWN. CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THESE CONFLICTS AND DIFFERENCES ARE RESOLVED.

3. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR THE CONDUCT OF THE WORK, INCLUDING CONSTRUCTION METHODS AND PROCEDURES; SITE SAFETY; AND METHODS, DESIGN, AND MATERIALS FOR TEMPORARY VERTICAL AND LATERAL SUPPORT OF EXISTING AND NEW STRUCTURES.

4. THE CONTRACTOR SHALL VERIFY DIMENSIONS.

5. CONTRACTOR SHALL PROVIDE AND INSTALL STIFFENERS, BRACING, BACKING PLATES, AND SUPPORT ALL BRACKETS REQUIRED FOR INSTALLATION OF ALL BATHROOM FIXTURES AND ALL FLOORING OR ELECTRICAL EQUIPMENT.

6. CAULKING IS REQUIRED PER CA TITLE 24: AROUND ALL DOOR FRAMES; BETWEEN WALL SOLE PLATES AND FLOORS AND BETWEEN EXTERIOR WALL PANELS; ALL PENETRATIONS IN WALLS, CEILINGS, AND FLOORS DUE TO THE INSTALLATION OF PLUMBING, ELECTRIC, GAS AND HVAC LINES; ALL OPENINGS IN ATTIC FLOORS, ACCESS PANELS OR SIMILAR ASSEMBLIES.

7. DO NOT SCALE DRAWINGS. IN CASE OF CONFLICT, NOTIFY THE ENGINEERING DEPARTMENT. DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF FINISHES.

8. ALL INTERIOR PENETRATIONS SHALL BE SEALED TO PROVIDED A PROFESSIONAL AND FINISH APPEARANCE.

9. CONTRACTOR RETAINS POSSESSION OF WASTE MATERIALS AND IS RESPONSIBLE FOR REMOVAL FROM SITE AND DISPOSAL IN A TIMELY FASHION.

10. FINISH MATERIALS SHALL BE STORED AND ACCLIMATED TO THE PROPER ENCLOSED CONDITIONS AS SPECIFIED BY THE MANUFACTURER.

11. IN CASE OF DISCREPANCIES OR CONFLICTING INFORMATION OR REQUIREMENTS WITHIN THE DRAWINGS, WITHIN THE SPECIFICATION, OR BETWEEN DRAWINGS AND SPECIFICATION, THE MOST EXPENSIVE REQUIREMENTS SHOWN OR SPECIFIED SHALL BE THE BASIS FOR THE CONTRACT. OBVIOUS OR INCIDENTAL PLANS, INCLUDING, BUT NOT LIMITED TO TYPOGRAPHICAL ERROR, INCORRECTLY NOTED DRAWINGS SCALES AND NON-SENSICAL INFORMATION SHALL NOT BE CAUSE FOR CHANGE ORDER OR CONTRACT MODIFICATIONS. ALL SUCH CONFLICTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEERING DEPARTMENT.

12. WHERE CHOICE OF FINISH COLOR IS NOT SPECIFIED IT IS TO BE SELECTED BY THE ENGINEERING DEPARTMENT.

13. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF CITY OF MERCED ENGINEER.

14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED LICENSES AND PERMITS ASSOCIATED WITH THEIR WORK.

15. ALL EXTERIOR REPAIRS MUST BE PRIMER AND PAINT TO MATCH EXISTING INCLUDING BARE WOOD, STUCCO AND UNDERSIDE OF EAVES.

16. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETED SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE BY ALL TRADES.

17. CONTRACTOR SHALL COORDINATE A FINAL INSPECTION WITH BOTH THE CITY BUILDING DEPARTMENT AND COUNTY ENVIRONMENTAL HEALTH AGENCY PRIOR TO FINAL ACCEPTANCE.

18. SPECIAL INSPECTION REQUIRED FOR ANCHORS IN POST-INSTALLED HARDENED CONCRETE. THIS IS FOR WHERE NEW CONCRETE WILL TIE-INTO EXISTING. COORDINATE WITH CITY OF MERCED INSPECTOR.

SCOPE OF WORK

THE PROJECT, IN GENERAL, IS AN ALTERATION FOR THE PURPOSE OF BARRIER REMOVAL. THE ALTERATION FOR THE PURPOSE OF BARRIER REMOVAL INCLUDES ALTERING THE EXISTING RESTROOMS (BOYS/GIRLS), TO INCLUDE A NEW ACCESABLE STALL. THIS WOULD INCLUDE THE REMOVAL OF EXISTING RESTROOM FIXTURES SUCH AS: TOILETS, URINALS, PARTISAN WALLS, AND EXTERIOR DOORS.

BARRIER REMOVAL OUTSIDE THE RESTROOM TO INCLUDE: CONCRETE DECK WORK AROUND EXISTING SWIMMING POOL, NEW TRENCH DRAINS, AND ENTRY GATES.

ADDITIONAL SCOPE OF WORK ADDED TO THIS PROJECT AS A REQUIREMENT OF THE MERCED COUNTY HEALTH DEPARTMENT. THE WORK FOR MERCED COUNTY HEALTH DEPARTMENT REQUIREMENTS INCLUDES INSTALLING NEW ACCESABLE SHOWERES (BOYS/GIRLS), NEW ELECTRIC POTABLE HOT-WATER HEATERS, GRAB BARS AND RAILINGS, DOORS, SOAP DISPENSORS AND SHOWER FIXTURES AND NEW PLUMBING TO EXISTING SERVICE LINES AND FIXTURES.

NO NEW ELECTRICAL OR HVAC IS PROPOSED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES MODIFYING OF THE EXISTING ELECTRICAL/HVAC SYSTEM, THE CONTRACTOR SHALL THEN COORDINATE CHANGES WITH THE CITY'S BUILDING DEPARTMENT.

PLEASE NOTE THAT A POOL RENOVATION PROJECT MAY BE DONE CONCURRENTLY WITH THIS PROJECT, AS A SEPERATE PROJECT. CONTRACTOR TO COORDINATE ALL WORK WITH POOL CONTRACTOR.

GENERAL DEMOLITION NOTES

1. GENERAL CONTRACTOR SHALL VISIT THE PROJECT SITE TO VERIFY ALL FIELD CONDITIONS AS THEY RELATE TO DEMOLITION INDICATED ON THIS PLAN AND SPECIFICATION. NOTIFY ENGINEERING DEPARTMENT IMMEDIATELY IF ANY DISCREPANCY IS FOUND.

2. GENERAL CONTRACTOR SHALL EXECUTE ALL DEMOLITION AND REMOVAL CAREFULLY, SO AS TO MINIMIZE INTERFERENCE WITH EXISTING CONDITIONS, NEW CONDITIONS, OR SITE CONDITIONS. IF ANY STRUCTURAL COMPONENTS ARE UNCOVERED UNEXPECTEDLY DURING DEMOLITION, THE GENERAL CONTRACTOR SHALL STOP WORK IMMEDIATELY AND NOTIFY ENGINEERING DEPARTMENT.

3. WHERE PLUMBING, MECHANICAL OR ELECTRICAL SYSTEMS/ITEMS ARE SPECIFIED TO BE REMOVED, THE GENERAL CONTRACTOR SHALL ENSURE THAT THE SYSTEMS ARE ABANDONED/SEALED/CAPPED TO THE EXTENT THAT THEY IN NO WAY INTERFERE WITH THE FINAL FINISH CONDITIONS. THERE SHALL BE NO INDICATION OF PREVIOUS INSTALLATION WHAT SO EVER. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERING DEPARTMENT.

4. WHERE EXISTING WALLS, CASEWORK, FIXTURES, EQUIPMENT, ETC. ARE TO BE REMOVED, NEWLY REVEALED SURFACES SHALL BE CLEANED SO AS TO ACCEPT NEW FINISH MATERIALS PER SPECIFICATION AND DRAWINGS. ALL UNNECESSARY BRACKETS, CLIPS, HANGERS, NAILS, LEDGER BOARDS, ETC. THROUGHOUT THE SPACE SHALL BE REMOVED. WORK SHALL BE PERFORMED SO AS TO LEAVE NO INDICATION OF PREVIOUS DEMOLITION.

5. PROTECT ALL EXISTING WINDOWS AND FRAMES THAT ARE TO REMAIN DURING DEMOLITION.

6. PROTECT ALL EXISTING STRUCTURE DURING DEMOLITION.

7. IF EXISTING WALLS ARE TO BE REMOVED, REPAIR WALL AND FLOOR FINISHES TO MATCH ADJACENT SURFACES AT AREAS OF REMOVAL OR SCHEDULED NEW SURFACES AS REQUIRED.

CODE ANALYSIS

OCCUPANCY TYPE: U

CONSTRUCTION TYPE: TYPE II-B UNPROTECTED NON-COMBUSTIBLE (MOST COMMON TYPE OF NON-COMBUSTIBLE CONSTRUCTION USED IN COMMERCIAL BUILDINGS). **EXISTING RESTROOMS**

CONSTRUCTION TYPE: V-B

CONSTRUCTION TYPE: TYPE V UNPROTECTED WOOD FRAME FOR NEW SHOWERS

APPLICABLE CODES: 2019 C.B.C., C.M.C, C.P.C., C.E.C., C.F.C., C.G.B.S.C., TITLE 24, PART 6, 2019 CALIFORNIA ENERGY CODE, AND APPLICABLE STATE AND LOCAL REGULATIONS.

LEGEND

EXISTING
NEW WALL
PROPERTY LINE
WALL SECTION
BUILDING SECTION
EXT. ELEVATION

A
D B
C

A – NORTH
B – EAST
C – SOUTH
D – WEST
INT. ELEVATION

UTILITY COMPANY AND CITY OF MERCED CONTACTS

PACIFIC GAS AND ELECTRIC:
PAUL SYTSMA (ELECTRIC).....(209) 726-6362
LYNN McCULLICK (GAS).....(209) 726-6328

AT&T (TELEPHONE):
TROY BRANIFF .....(209) 726-7163

COMCAST (CABLE):
FRANK CASTRO.....(559) 455-4221

MERCED IRRIGATION DISTRICT (ELECTRIC):
MIKE MORRIS (IRR).....(209) 354-2845
JASON GRACE (ELEC).....(209) 354-2814

CITY OF MERCED:
JUAN OLMOS (STREETS).....(209) 385-6806
JOHNNIE BAPTISTA (WATER).....(209) 384-4180
JOE PADILLA (SEWER).....(209) 385-4715

REGISTERED PROFFESSIONAL STAMP

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRAN II
No. 83916
CIVIL
STATE OF ALIFORNIA

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

Underground Service Alert
TWO DAYS BEFORE YOU DIG
Call : TOLL FREE 1 (800) 277 - 2600
OR 811

NOTE:
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City of Merced
"Gateway to Yosemite"
DEPARTMENT OF ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

COVER SHEET

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BULD DEPT
DATE:	APRIL 2022
REV DATE:	--/--/--
BY:	
SCALE:	AS SHOWN

FILE NO. 1012
Sheet 1 of 12

Plot Date: February 22, 2023

I:\Current Projects\122011 - Ada Givens Pool Rehabilitation\Dwg\1012-PAV_NEW 12.08.22_Recover.dwg

Plot Date: February 22, 2023

GENERAL NOTES

1. THE CONTRACTOR SHALL OBTAIN A NO FEE ENCROACHMENT PERMIT FROM THE CITY OF MERCED FOR ANY WORK TO BE PERFORMED WITHIN THE PUBLIC RIGHT-OF-WAY.
2. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE PRECAUTIONARY MEASURES INCLUDING BUT NOT LIMITED TO POTHOLING, EXPOSING EXISTING UTILITIES AND TO PROTECT ANY EXISTING UTILITIES OR FACILITIES, SHOWN OR NOT SHOWN. ANY DAMAGES DONE AS A RESULT OF THE CONTRACTOR'S WORK OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH RESPECTIVE UTILITY COMPANIES.
4. LOCATION AND ELEVATION OF EXISTING IMPROVEMENTS SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (811) NO LESS THAN 48 HRS PRIOR TO ANY WORK, OR (1-800-227-2600) TO OBTAIN A U.S.A. IDENTIFICATION NUMBER AND TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO THE PLANS IF REVISIONS ARE NECESSARY DUE TO ACTUAL LOCATION OF EXISTING UTILITIES.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, BONDS, INSURANCE, ETC. REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES.
6. FIELD SURVEY INFORMATION CAN BE PROVIDED BY:

   CITY OF MERCED
   ENGINEERING DEPARTMENT
   ENGINEERING PROJECTS AND STANDARDS
   678 W. 18TH STREET MERCED, CA 95340 (209) 385-6846

7. "CITY ENGINEER" SHALL MEAN THE CITY ENGINEER OR HIS/HER AUTHORIZED AGENT ACTING WITHIN THE SCOPE OF HIS/HER AUTHORITY.
8. IF ANY CULTURAL FEATURES OR ARCHAEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING, OR ANY OTHER EXCAVATION WORK, ALL WORK WITHIN ONE HUNDRED FEET (100') OF THESE MATERIALS SHALL BE STOPPED IMMEDIATELY UNTIL A PROFESSIONAL ARCHAEOLOGIST CERTIFIED BY THE SOCIETY OF PROFESSIONAL ARCHAEOLOGY (SOPA) AND /OR THE SOCIETY OF CALIFORNIA ARCHAEOLOGY (SCA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND APPROPRIATE MITIGATION MEASURES ARE DETERMINED AND IMPLEMENTED.
9. REGULAR HOURS OF WORK WILL BE LIMITED TO 8:00 A.M. TO 4:00 P.M., MONDAY THROUGH FRIDAY. THE HOURS OF CONSTRUCTION MAY VARY AT THE DISCRETION OF THE CITY ENGINEER. CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR APPROVAL BY THE CITY ENGINEER AT LEAST TWO (2) WORKING DAYS (48 HRS) IN ADVANCE TO WORK DURING ANY OTHER HOURS, WEEKENDS, OR HOLIDAYS. THE FOLLOWING SPECIAL HOURS OF WORK WILL BE ENFORCED FROM MONDAY THROUGH FRIDAY:

   a. WORK ADJACENT TO OR WITHIN FIFTEEN HUNDRED FEET (1500') OF ANY SCHOOL WHILE SCHOOL IS IN SESSION WILL BE LIMITED TO 9:00 A.M. TO 3:00 P.M..

   b. WORK WITHIN THREE HUNDRED FEET (300') OF OCCUPIED RESIDENTIAL UNITS WILL BE LIMITED TO 8:00 A.M. TO 4:00 P.M.

10. THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE OF CALIFORNIA CONSTRUCTION SAFETY ORDERS PERTAINING TO TRENCHES AND EXCAVATIONS.
11. ALL TRENCHING, BACKFILL, COMPACTION AND PAVING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. THE INSTALLATION OF EROSION CONTROL FACILITIES AND MEASURES IS NECESSARY AT ALL TIMES. (EROSION CONTROL PLAN SHALL BE APPROVED BY THE CITY ENGINEER).
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL PROPERTY CORNERS AND SURVEY MONUMENTS (SHOWN OR NOT SHOWN), WITHIN AND AROUND PROJECT BOUNDARIES. MONUMENT PRESERVATION FORM SHALL BE SUBMITTED TO THE CITY PRIOR TO CONSTRUCTION AND AFTER CONSTRUCTION.
14. MONUMENTS ARE PER THE REQUIREMENTS OF THE SUBDIVISION MAP ACT, LAND SURVEYORS ACT, AND THE CITY SUBDIVISION ORDINANCE AND SHALL BE IN ACCORDANCE WITH THE RULES AND PROCEDURES APPROVED BY THE CITY SURVEYOR. ALL LOT CORNERS AND TRACT BOUNDARIES SHALL BE LOCATED AND MONUMENTED IN ACCORDANCE WITH THE RECORDED TRACT MAP AND WRITTEN CERTIFICATION SHALL BE SUBMITTED TO THE CITY ENGINEER BY THE PROJECT CIVIL ENGINEER.
15. ALL UNDERGROUND UTILITIES SHALL BE CONSTRUCTED PRIOR TO THE PLACEMENT OF BASE ROCK UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
16. THE CONTRACTOR SHALL PREPARE THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY FOR CONDUCTING HIS/HER OPERATIONS IN ADHERENCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OR HIS/HER SUBCONTRACTORS.

ABBREVIATIONS

ABAN	ABANDON
AB	AGGREGATE BASE (CRUSH AGGREGATE BASE COURSE)
AC	ASPHALT CONCRETE (BITUMINOUS CONCRETE PAVEMENT)
ADJ	ADJUST
APPRX	APPROXIMATELY
ASB	AGGREGATE SUB BASE
AT&T, ATT	AMERICAN TELEPHONE AND TELEGRAPH
BC	BEGIN CURVE
BEG	BEGINNING
BW	BACK OF WALK
BM	BENCH MARK
BC	BEGIN CURVE
C	CONCRETE GRADE
CB	CATCH BASIN
CC	CONCRETE CORNER
CE	CONCRETE EDGE
CIP	CAST IN PLACE
CL, ℄	CENTERLINE
CONC, C	CONCRETE
CO	SEWER CLEAN OUT
CVIN	CENTRAL VALLEY INDEPENDENT NETWORK
CY	CUBIC YARDS
D	DEPTH
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DL	DAYLIGHT POINT
DW	DRIVEWAY
E	EAST
(E)	EXISTING
EA	EACH
EC	END CURVE
EG	EXISTING GROUND
EP	EDGE OF PAVEMENT
ELEV	ELEVATION
EVC	END VERTICAL CURVE
(E), EXIST	EXISTING
FG	FINISH GRADE
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FW	FRONT OF WALK
G	GAS
GB	GRADE BREAK
GL	GUTTER LIP
HMA	HOT MIX ASPHALT
HDPE	HIGH DENSITY POLYETHYLENE
HORZ, H	HORIZONTAL
HP	HIGH POINT
INV	INVERT
JUT	JOINT UTILITY TRENCH
L	LENGTH
LBS	POUNDS
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MID	MERCED IRRIGATION DISTRICT (ELECTRIC)
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT
MTL	MATERIAL
N	NORTH
(N)	NEW
NB	NORTHBOUND
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OG	ORIGINAL GROUND
O/H, OH	OVERHEAD
OHE	OVERHEAD ELECTRICAL
OHPL	OVERHEAD POWER LINE
PCC	PORLAND CEMENT CONCRETE
PG&E, PGE	PACIFIC GAS AND ELECTRIC
PI	POINT OF INTERSECTION
PVC	POINT OF VERTICAL CURVE
PVMT	PAVEMENT
R & D	REMOVE AND DESTROY
RC	RELATIVE COMPACTION
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
R/W	RIGHT OF WAY
S	SOUTH, SLOPE, OR SEWER
SB	SOUTHBOUND
SC	SAWCUT
SD	STORM DRAIN
SF	SQUARE FEET
STA	STATION
STD	STANDARD
SW	SIDEWALK
SY	SQUARE YARD
T, TEL	TELEPHONE
TOB	TOP OF BANK
TOE	TOE OF BANK
TOG, TG	TOP OF GRATE
TC	TOP OF CURB
TEMP	TEMPORARY
TR	TOP OF RAMP
TS	TRAFFIC SIGNAL
TV	TELEVISION
TW	TOP OF WALK
TYP	TYPICAL
UG, U/G	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
VAR.	VARIABLE
VC	VERTICAL CURVE
VERT, V	VERTICAL
W	WEST OR WATER
WEEP	WEEP (CURB) DRAIN
WM	WATER METER
WV	WATER VALVE

LEGEND

- ASPHALT CONCRETE
- UTILITY BOX (Elec., T.V., Tel. Traffic)
- BENCHMARK
- BUSH
- BUILDING
- CB — CATCH BASIN
- —12" SD— STORM DRAIN LINE
- SD — STORM DRAIN MAN HOLE
- CENTERLINE
- CITY LIMIT LINE
- CO — CLEANOUT
- CONC. SLAB OR SIDEWALK
- CURB INLET
- CURB & GUTTER
- DH — DETECTOR HANDHOLE
- EDGE OF PAVEMENT
- TS — ELECTRICAL BOX
- ELECTROLIER
- x x FENCELINE (BARBED WIRE)
- o o FENCELINE (CHAIN-LINK)
- ▫ ▫ FENCELINE (WOOD)
- FIRE HYDRANT
- 6"FM FORCE MAIN
- 4"G GAS LINE
- GAS METER
- GAS VALVE
- GATE
- GUY ANCHOR
- HOSE BIB
- 36"IRR IRRIGATION LINE
- IRRIGATION STRUCTURE
- IV — IRRIGATION VALVE
- LIFT STATION
- S — SEWER MANHOLE (SS)
- 8"S SEWER LINE
- MAILBOX
- MH — MANHOLE (GAS, SS, SD, TEL. OR MISC.)
- METER (WATER)
- MONUMENT FOUND
- O/H-(E) OVER HEAD ELECTRIC
- POWER POLE
- POLE (POWER AND/OR TEL.)
- U.G.E POWER (UNDERGROUND)
- POT HOLE
- P.U.E PUBLIC UTILITY EASEMENT
- T,C,E TELEPHONE, COMMUNICATION, ELECTRIC
- T TELEPHONE
- SIGN (TRAFFIC OR MISC.)
- SPRINKLERS
- STAND PIPE
- STREET LIGHT
- T(OH) TELEPHONE LINE (OVERHEAD)
- T(UG) TELEPHONE (UNDERGROUND)
- TELEPHONE PEDESTAL
- 6" — TREE
- + 177.65 ELEV. — TOPOGRAPHIC SURVEY POINT W/ELEV. & DESC.
- TRAFFIC SIGNALS
- TREE
- TREE STUMP
- U.G.F.C UNDERGROUND FIBER CABLE
- VAULT
- WALL
- 12"W WATER LINE
- WATER METER
- WATER VALVE
- W — WELL
- STOP — STOP SIGN

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRAN II
No. 83916
CIVIL
STATE OF CALIFORNIA

NO.	DATE	BY	REVISION MADE
1	--/--/--	-	-

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OR 811

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City of Merced
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DEPARTMENT OF ENGINEERING
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678 W. 18th Street (209) 385-6846

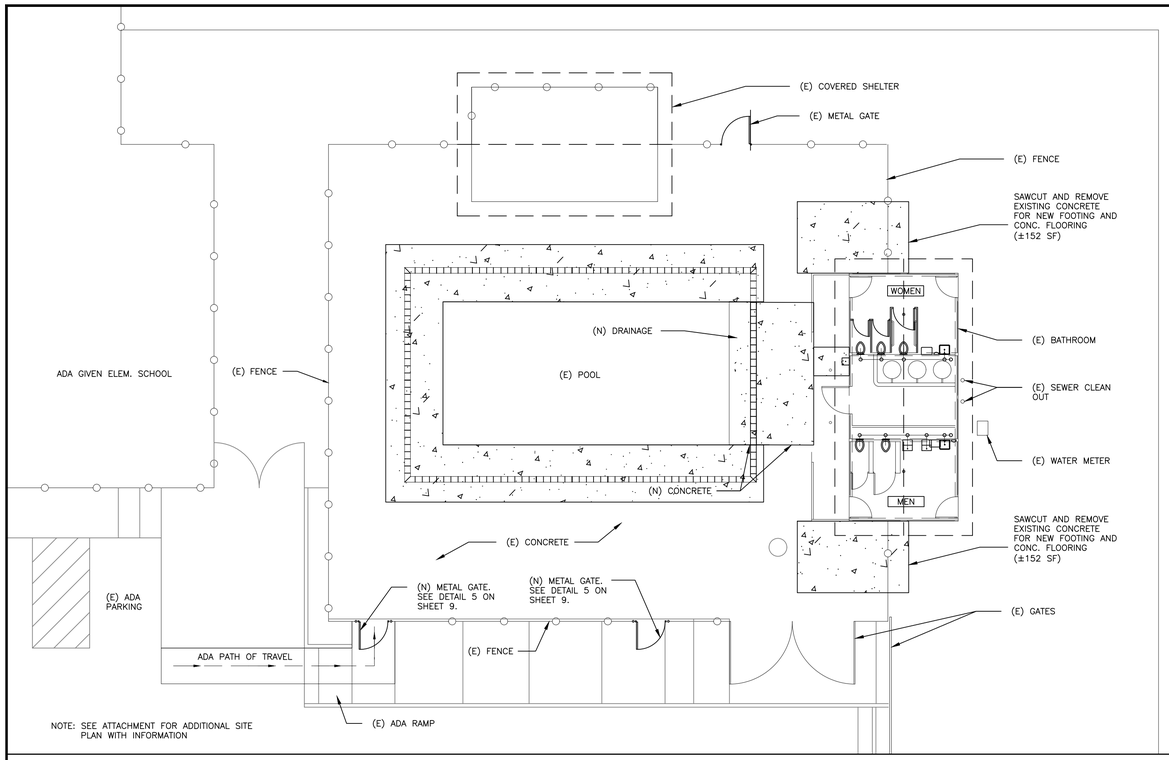
GENERAL NOTES

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY: A VANG	
DATE: 03/29/2022	
CH. BY: ENGR DEPT/BLDG DEPT	
DATE: APRIL 2022	
REV DATE: --/--/--	
BY:	
SCALE: AS SHOWN	

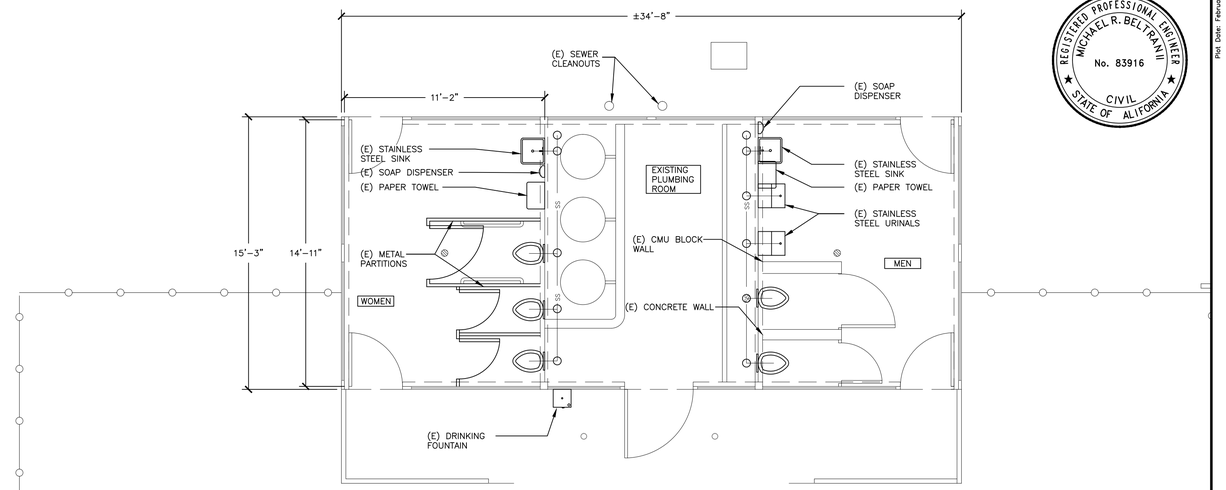
FILE NO. 1012
Sheet 2 of 12

E:\ Current Projects\122011 - Ada Givens Pool Rehabilitation\Dwg\1012-PAF_NEW 12.08.22_reconvr.dwg



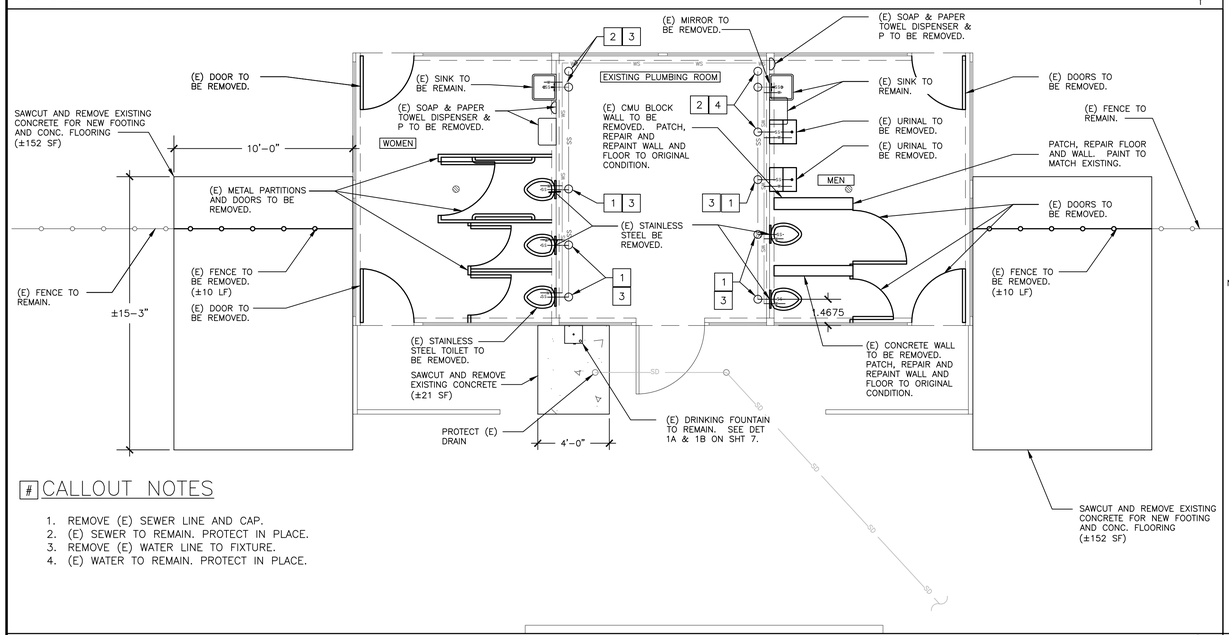
1 SITE PLAN

SCALE: 1" = 10'-0"



2 EXISTING BATHROOM FLOOR PLAN

SCALE: 1" = 4'-0"

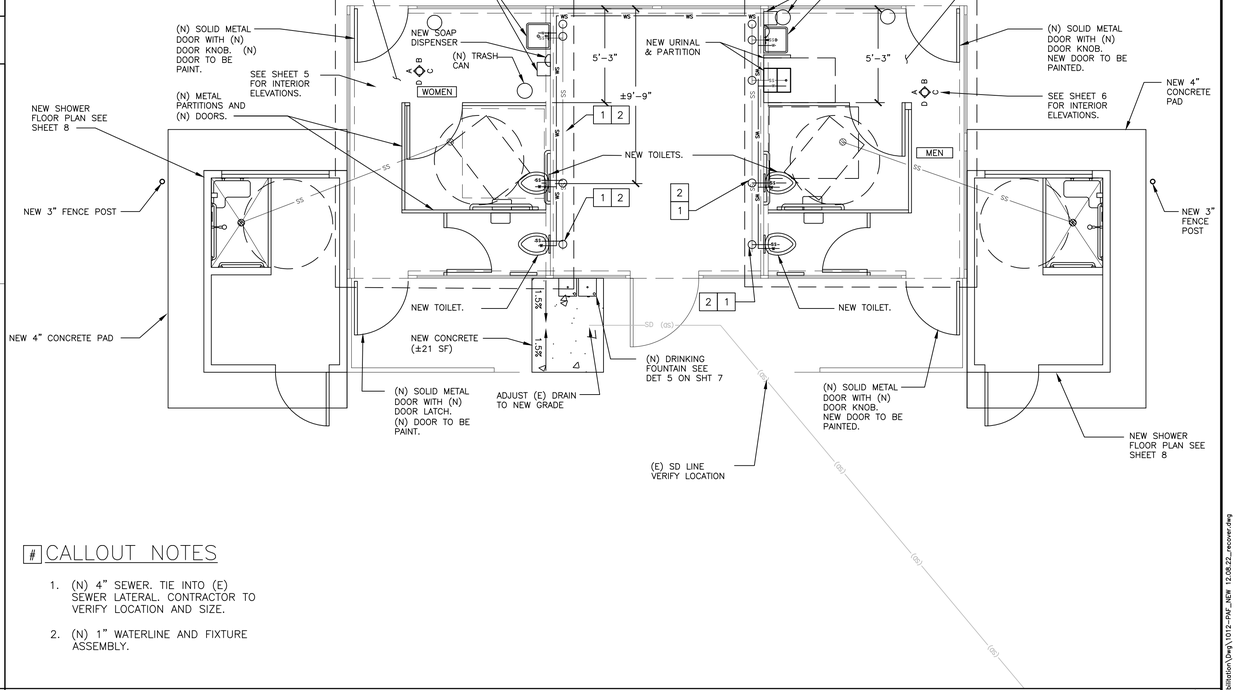


CALLOUT NOTES

1. REMOVE (E) SEWER LINE AND CAP.
2. (E) SEWER TO REMAIN. PROTECT IN PLACE.
3. REMOVE (E) WATER LINE TO FIXTURE.
4. (E) WATER TO REMAIN. PROTECT IN PLACE.

3 DEMO FLOOR PLAN

SCALE: 1" = 4'-0"



CALLOUT NOTES

1. (N) 4" SEWER. TIE INTO (E) SEWER LATERAL. CONTRACTOR TO VERIFY LOCATION AND SIZE.
2. (N) 1" WATERLINE AND FIXTURE ASSEMBLY.

4 NEW BATHROOM FLOOR PLAN

SCALE: 1" = 4'-0"

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

Underground Service Alert

TWO DAYS BEFORE YOU DIG

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DEPARTMENT OF ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

SITE PLAN, DEMOLITION AND CONSTRUCTION PLAN

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BLDG DEPT
DATE:	APRIL 2022
REV DATE:	--/--/--
BY:	
SCALE:	AS SHOWN

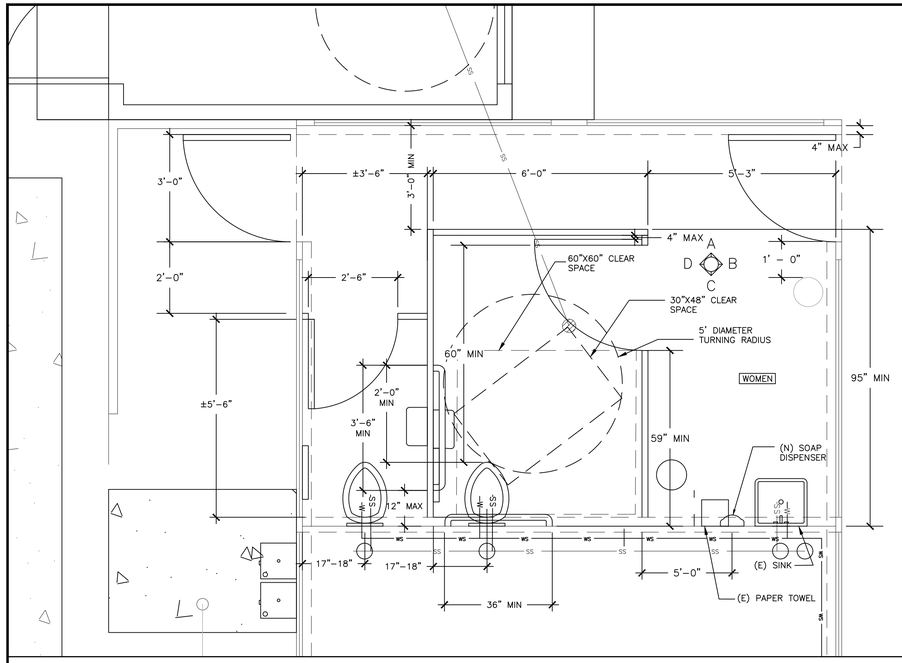
FILE NO. 1012

Sheet 3 of 12

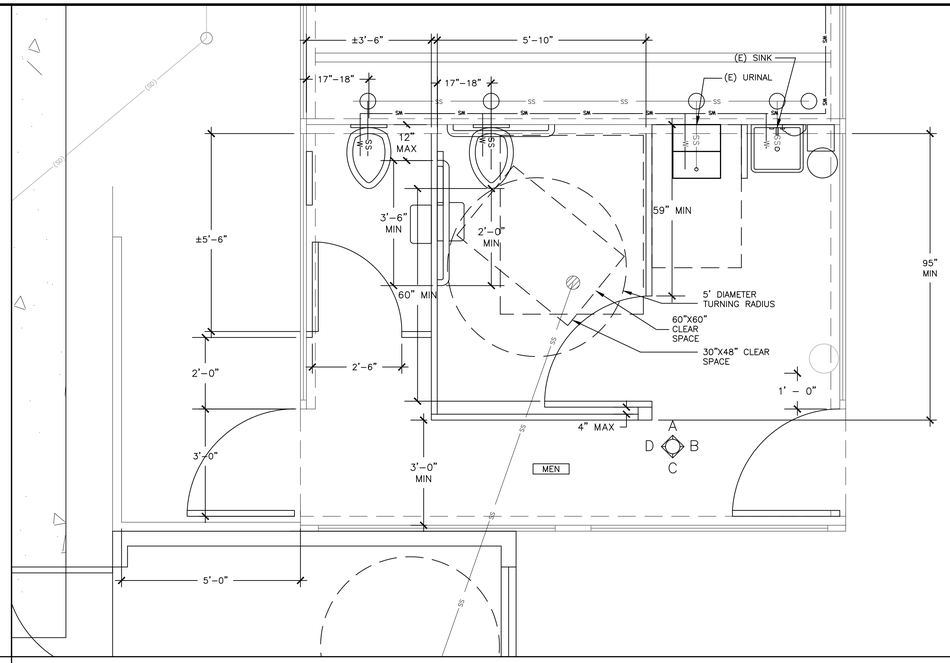
REGISTERED PROFESSIONAL ENGINEER MICHAEL R. BELTRANI No. 83916 CIVIL STATE OF CALIFORNIA

Plot Date: February 22, 2023

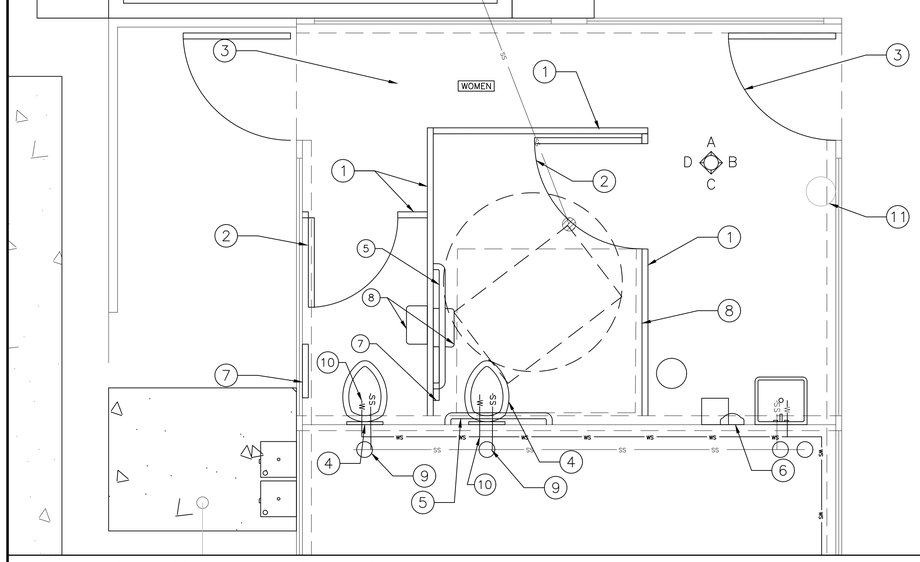
I:\1 Current Projects\122011 – Ada Givens Pool Rehabilitation\Dwg\1012-PNF_NEW 12.08.22_recover.dwg



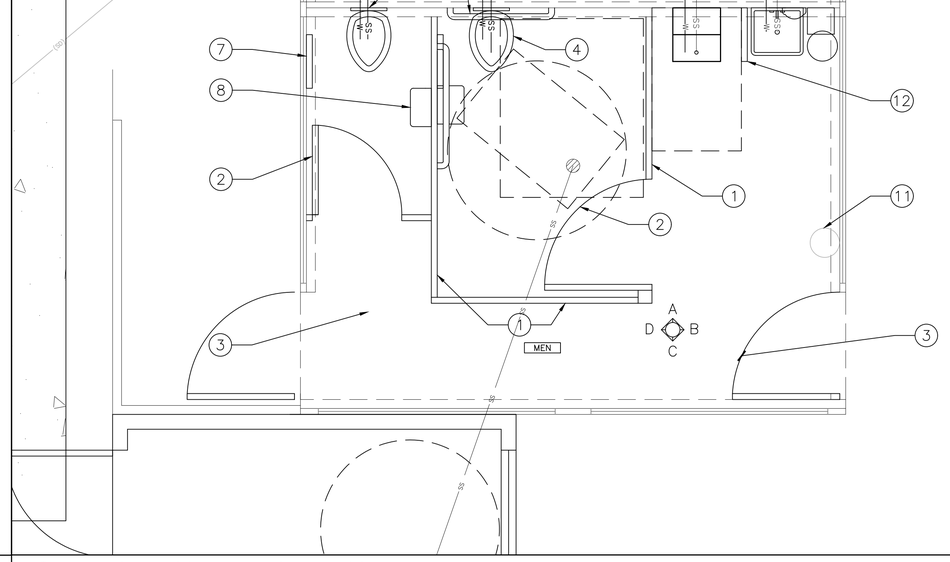
1 ENLARGED FLOOR AT WOMEN'S BATHROOM (DIMENSION)
SCALE: 1" = 2'-0"



2 ENLARGED FLOOR AT MEN'S BATHROOM (DIMENSION)
SCALE: 1" = 2'-0"



3 ENLARGED FLOOR AT WOMEN'S BATHROOM
SCALE: 1" = 2'-0"



4 ENLARGED FLOOR AT MEN'S BATHROOM
SCALE: 1" = 2'-0"

CONSTRUCTIONS NOTES

1. PROVIDE AND INSTALL NEW 2" X 6'-0" METAL PARTITION WALL.
2. PROVIDE AND INSTALL NEW 2" METAL PARTITION DOOR.
3. PROVIDE AND INSTALL NEW SOLID DOOR (3'-0" X 6'-8") PAINT TO MATCH EXISTING. SEE DETAIL 3 OR 4 ON SHEET 7.
4. NEW LOCATION FOR (E) TOILET.
5. PROVIDE AND INSTALL NEW GRAB BAR.
6. PROVIDE AND INSTALL NEW SOAP DISPENSER.
7. PROVIDE AND INSTALL NEW TOILET SEAT COVER DISPENSER.
8. PROVIDE AND INSTALL NEW TOILET PAPER DISPENSER.
9. PROVIDE AND INSTALL NEW SEWER LINE. CONTRACTOR TO VERIFY SIZE AND LOCATION.
10. PROVIDE AND INSTALL NEW WATER LINE. CONTRACTOR TO VERIFY SIZE AND LOCATION.
11. PROVIDE AND INSTALL NEW TRASH CAN.
12. PROVIDE AND INSTALL NEW URINAL PARTITION. (18"W X 42"H)

GENERAL NOTES

1. SITE VISIT MANDATORY.
2. CONTRACTOR TO VERIFY (E) SEWER LATERAL LOCATION FOR NEW PLUMBING TO CONNECT INTO.
3. CONTRACTOR TO REMOVE AND REPLACE PORTIONS OF CONCRETE FOR NEW SEWER CONNECTIONS INTO (E) LATERAL.
4. CONTRACTOR TO VERIFY (E) WATER SERVICE CONNECTIONS.
5. NEW FLOOR COATING AND COVE BASE PER DETAIL 2, SHEET 9.
6. DOORS AT ACCESSIBLE WATER CLOSET SHALL COMPLY WITH THE FOLLOWING:
   A. ALL WATER CLOSET DOOR SHALL BE SELF-CLOSING.
   B. A DOOR PULL COMPLYING WITH CBC 11B-404.2.7 SHALL PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH.
   C. WHEN LOCATED AT THE SIDE OF A TOILET COMPARTMENT, THE TOILET COMPARTMENT DOOR OPENING SHALL PROVIDE A CLEAR WIDTH OF 34" MINIMUM.
7. SEE DETAIL 8, SHEET 9 FOR DETAIL ON ADA RESTROOM TURNING SPACE.

NO.	DATE	BY	REVISION MADE
1	--/--/--	--	--

Underground Service Alert
TWO DAYS BEFORE YOU DIG
Call : TOLL FREE 1 (800) 642 - 2444

NOTE:
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City of Merced
"Gateway to Yosemite"
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ENLARGED FLOOR PLAN

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BLDG DEPT
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FILE NO. 1012
Sheet 4 of 12

Plot Date: February 22, 2023

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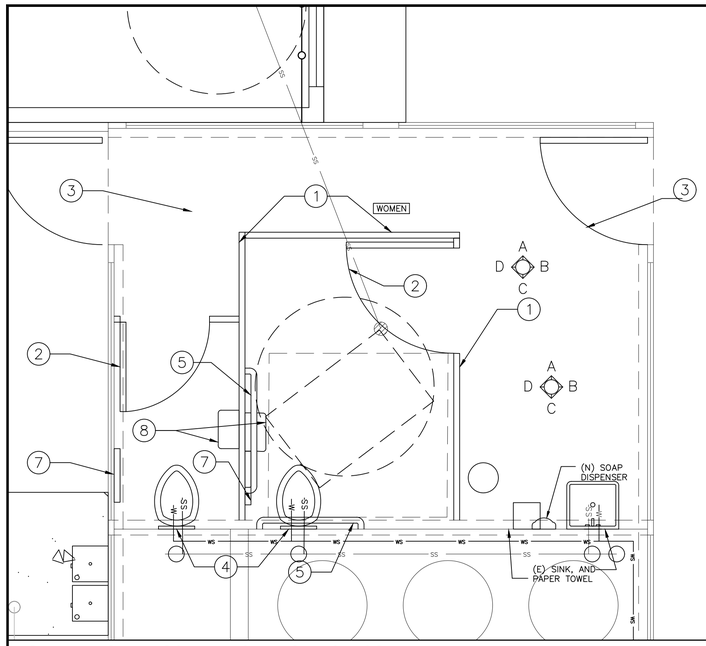
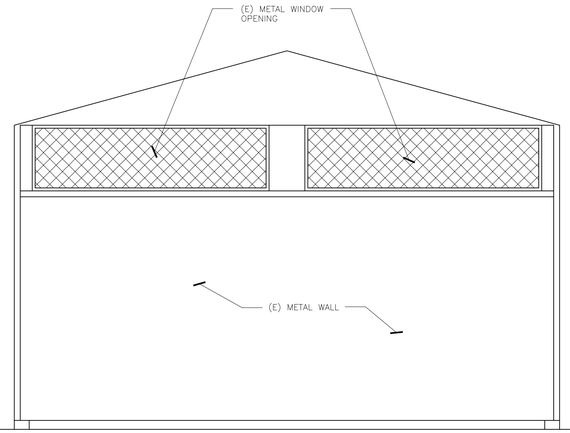
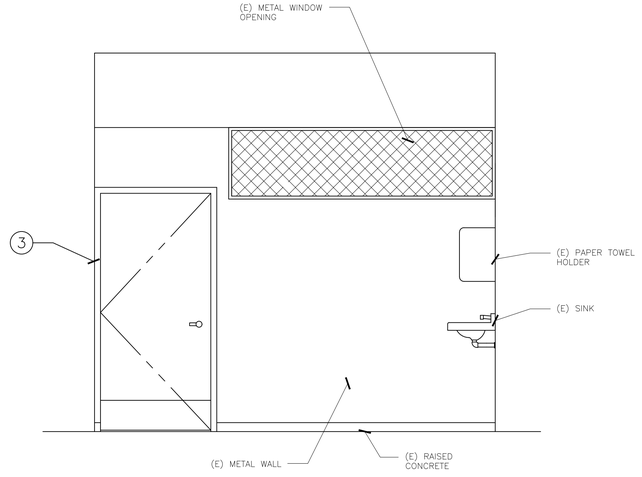


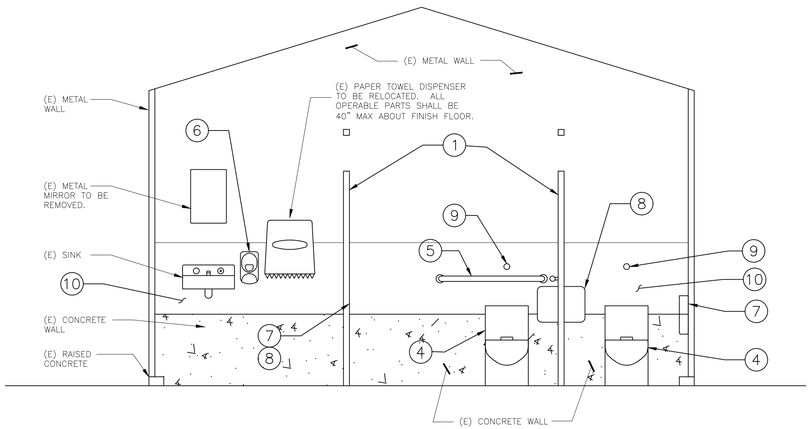
1 ENLARGED FLOOR AT WOMEN'S RESTROOM
SCALE: 1" = 2'-0"



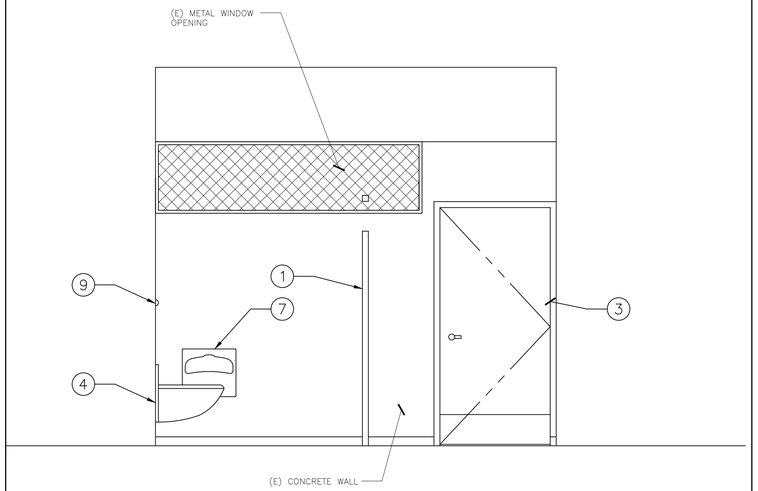
1 INT. ELE. AT WOMEN'S RESTROOM (NORTH (A)
SCALE: 1" = 2'-0"



2 INT. ELE. AT WOMEN'S RESTROOM (EAST (B)
SCALE: 1" = 2'-0"



1 INT. ELE. AT WOMEN'S RESTROOM (SOUTH (C)
SCALE: 1" = 2'-0"



2 INT. ELE. AT WOMEN'S RESTROOM (WEST (D)
SCALE: 1" = 2'-0"

CONSTRUCTIONS NOTES

1. PROVIDE AND INSTALL NEW 2" X 6'-0" METAL PARTITION WALL.
2. PROVIDE AND INSTALL NEW 2" METAL PARTITION DOOR.
3. PROVIDE AND INSTALL NEW SOLID DOOR (3'-0" X 6'-8") PAINT TO MATCH EXISTING
4. NEW LOCATION FOR (E) TOILET.
5. PROVIDE AND INSTALL NEW GRAB BAR.
6. PROVIDE AND INSTALL NEW SOAP DISPENSER. ALL OPERABLE PARTS SHALL BE 40" MAX ABOVE FINISH FLOOR.
7. PROVIDE AND INSTALL NEW TOILET SEAT COVER DISPENSER.
8. PROVIDE AND INSTALL NEW TOILET PAPER DISPENSER.
9. PROVIDE AND INSTALL NEW PUSH IN VALVE.
10. WALLS AND PARTITIONS WITHIN 2 FEET OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NONABSORBENT SURFACE, TO A HEIGHT OF NOT LESS 4 FEET ABOVE FLOOR.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRANII
No. 83916
CIVIL
STATE OF CALIFORNIA

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

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INTERIOR ELEVATIONS AT WOMEN'S RESTROOM

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY: A VANG	FILE NO. 1012
DATE: 03/29/2022	Sheet 5
CH. BY: ENGR DEPT/BLDG DEPT	of 12
DATE: APRIL 2022	
REV DATE: --/--/--	
BY:	
SCALE: AS SHOWN	

Plot Date: February 22, 2023

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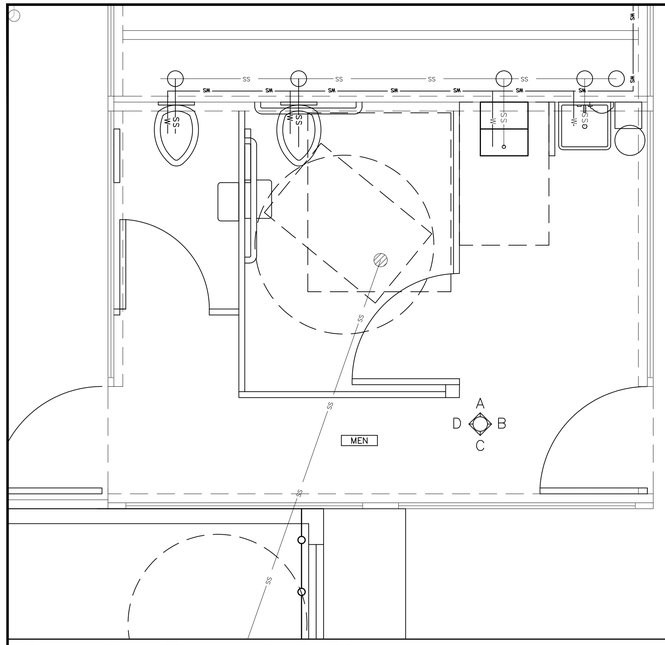
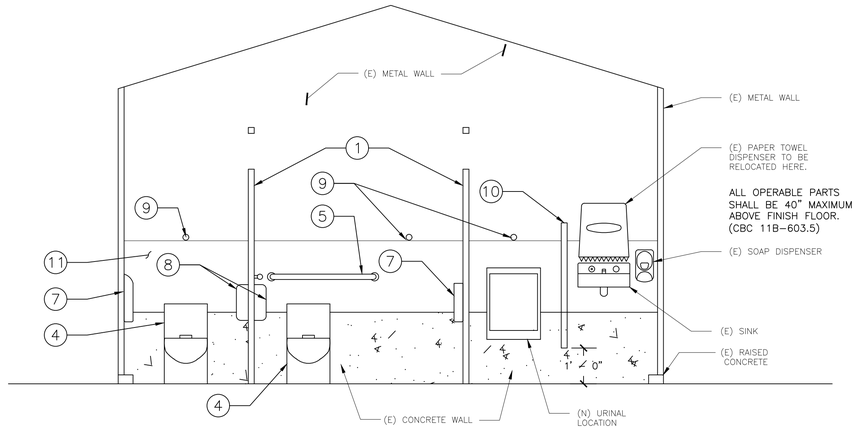
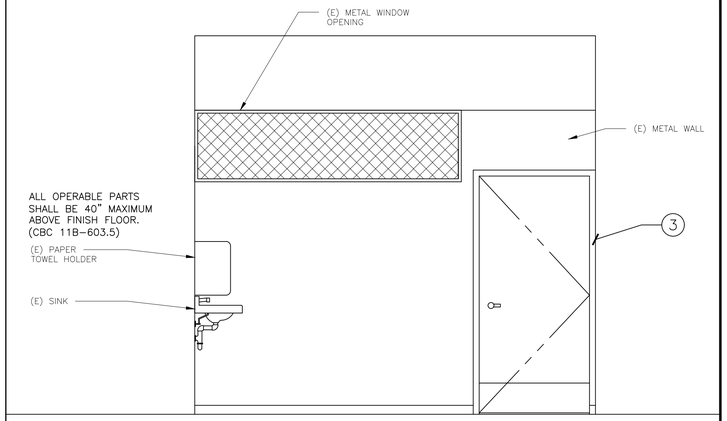


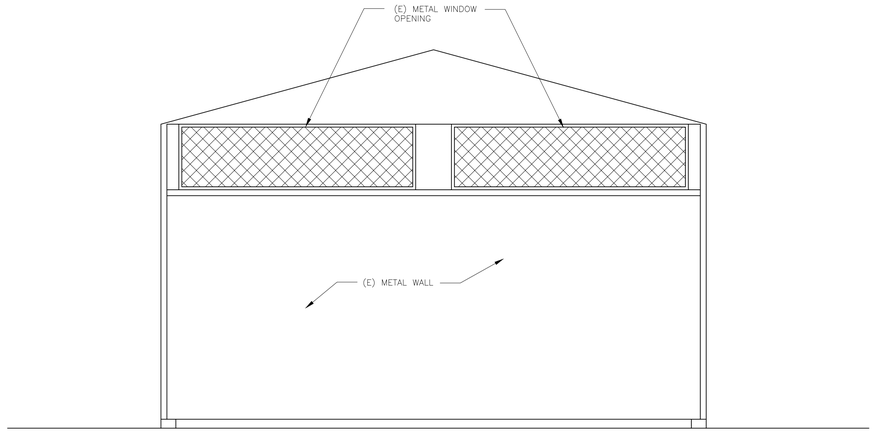
1 ENLARGED FLOOR AT MEN'S RESTROOM
SCALE: 1" = 2'–0"



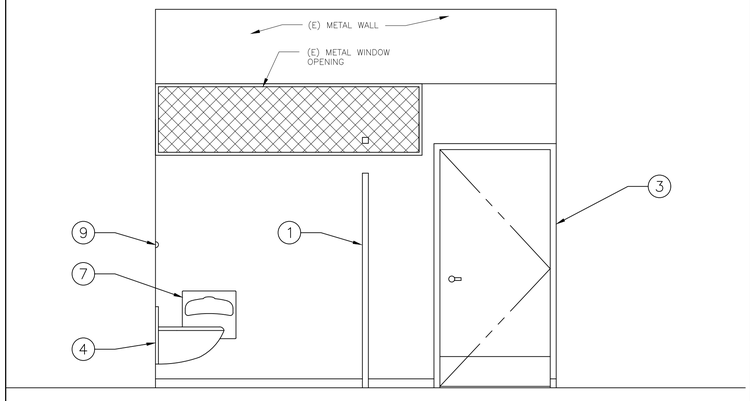
2 INT. ELE. AT MEN'S RESTROOM (NORTH (A)
SCALE : 1" = 2'–0"



3 INT. ELE. AT MEN'S RESTROOM (EAST (B)
SCALE: 1" = 2'–0"



4 INT. ELE. AT MEN'S RESTROOM (SOUTH (C)
SCALE: 1" = 2'–0"



5 INT. ELE. AT MEN'S RESTROOM (WEST (D)
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CONSTRUCTIONS NOTES

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INTERIOR ELEVATIONS AT MEN'S RESTROOM

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2900 GREEN STREET
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DESIGNED BY: A VANG	
DATE: 03/29/2022	
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FILE NO. 1012
Sheet 6 of 12

Plot Date: February 22, 2023

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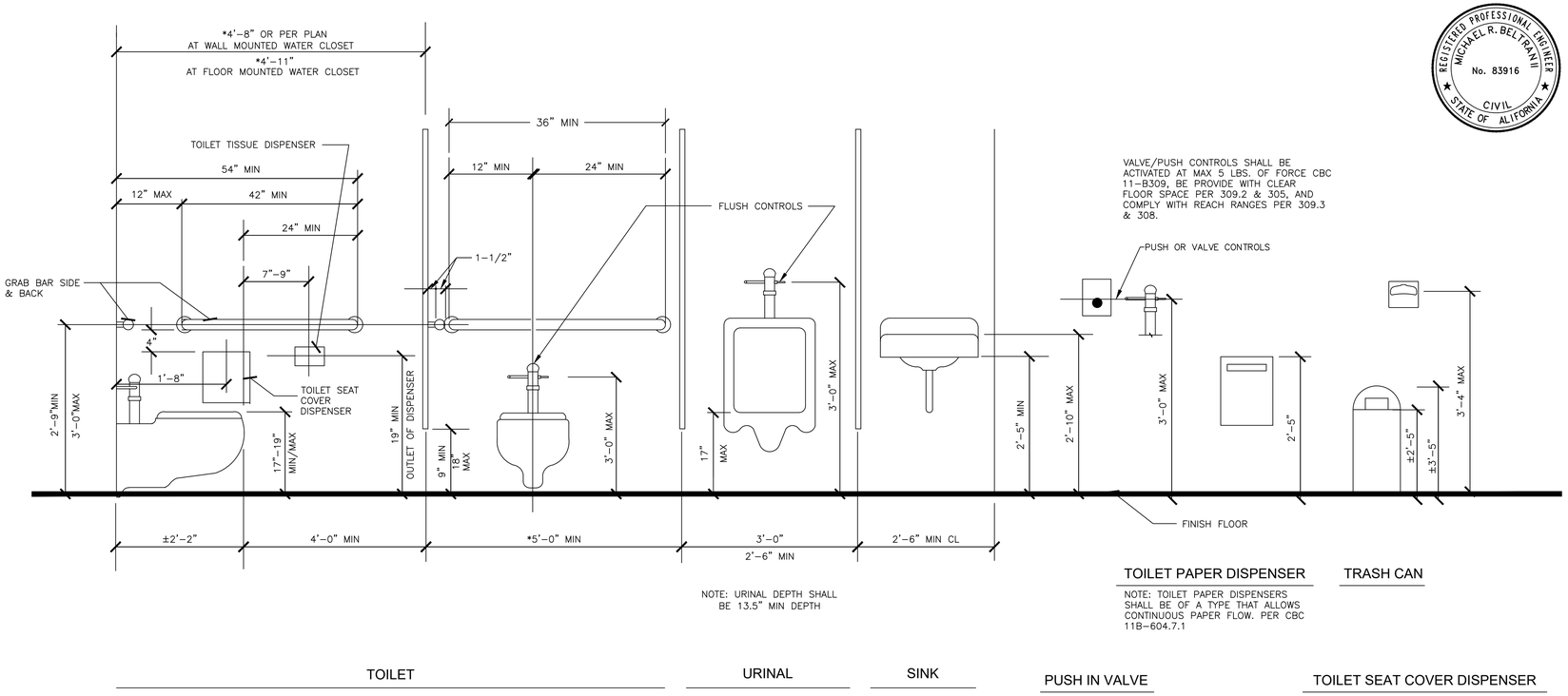

1 TYPICAL MOUNTING HEIGHTS
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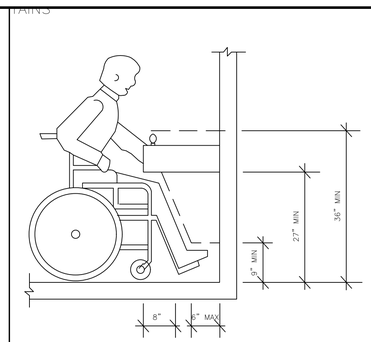
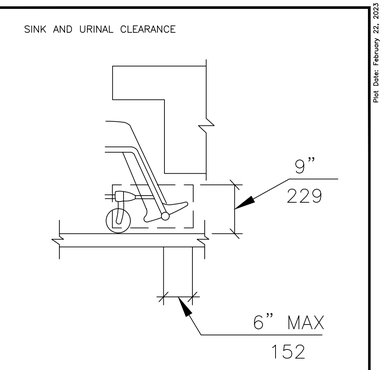
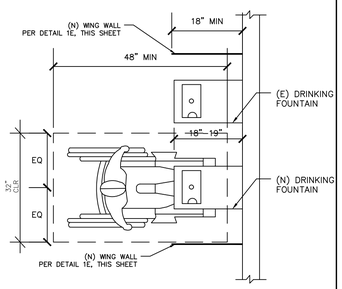


CBC 11B-602

1A DRINKING FOUNTAIN- ELEVATION
SCALE: NOT TO SCALE

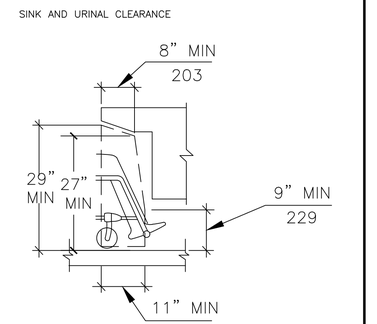


1C TOE CLEARANCE
SCALE: NOT TO SCALE



PER CBC 11B-602

1B DRINKING FOUNTAIN - PLAN
SCALE: NOT TO SCALE



PER CBC 11B-602-2

1D KNEE CLEARANCE
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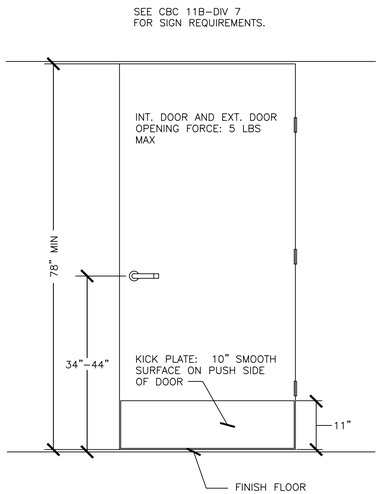
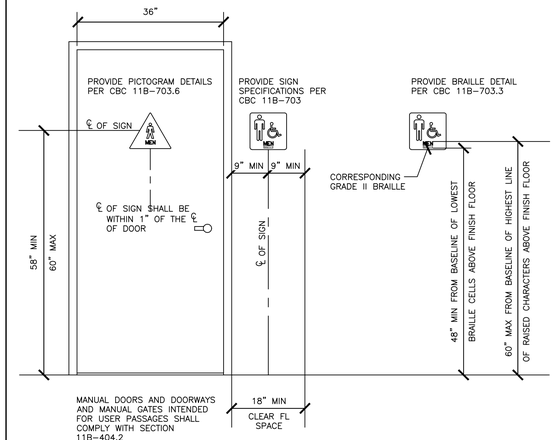
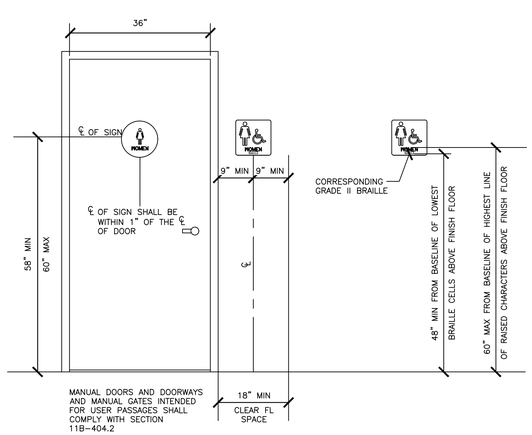


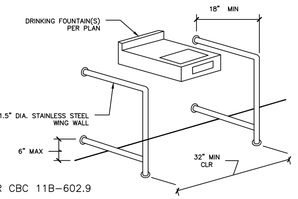
2 TYP LOC. AND INFORMATION FOR DOOR HARDWARE
SCALE: NOT TO SCALE



3 TYP LOC. AND INFORMATION FOR DOOR HARDWARE (MEN)
SCALE: NOT TO SCALE



4 TYP LOC. AND INFORMATION FOR DOOR HARDWARE (WOMEN)
SCALE: NOT TO SCALE



PER CBC 11B-602.9

1E DRINKING FOUNTAIN WING WALL
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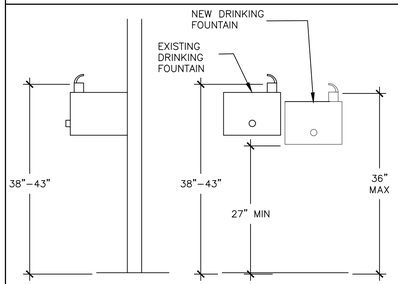


NOTES: SEE DETAILS 1A TO 1D ABOVE FOR MORE INFO.

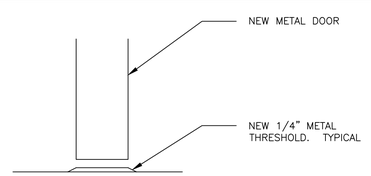
5 DRINKING FOUNTAIN DETAIL
SCALE: NOT TO SCALE

NOTES:

COAT HOOKS ON BACK OF DOOR WILL NOT BE PROVIDED.

DOOR SCHEDULE				
NUMBER	DOOR SIZE	MATERIAL	HARDWARE (DOOR LATCH)	KICK PLATE
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA
1	3' X 6'-8"	SOLID METAL	1 EA	1 EA

DOOR SCHEDULE



PER CBC 11B-404

6 THRESHOLD DETAIL
SCALE: NOT TO SCALE

NO.	DATE	BY	REVISION MADE
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DETAILS - MOUTHING HEIGHTS

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Sheet 7 of 12

Plot Date: February 22, 2023

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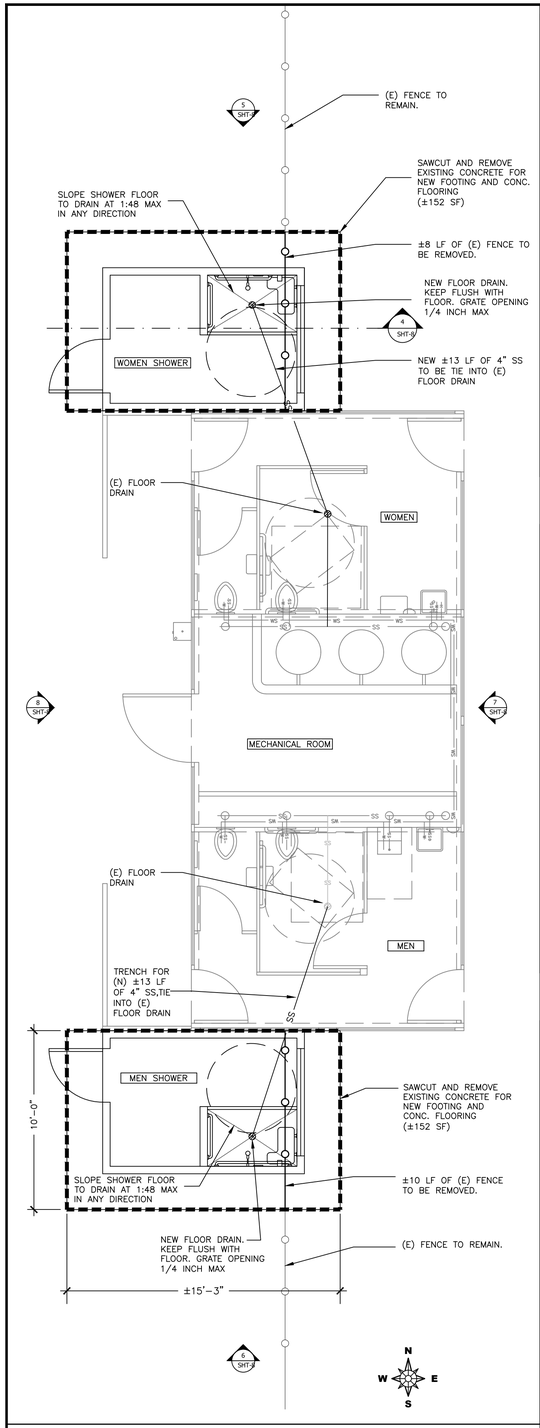
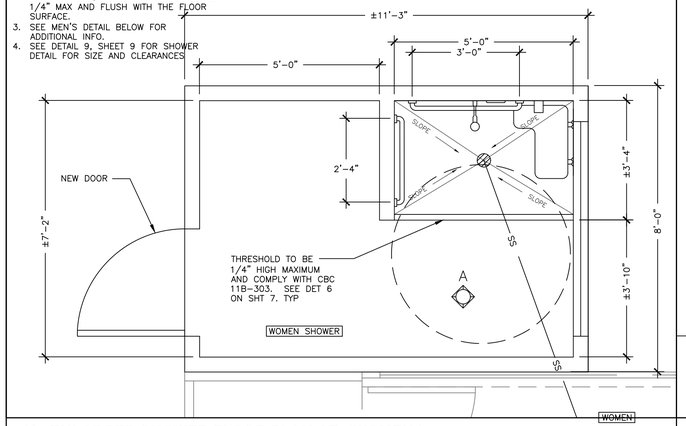


1 SHOWER FLOOR PLANS

ARCHITECTURAL SCALE: 1" = 4'-0"

NOTES:
1. SHOWER GROUND SURFACES SHALL COMPLY WITH CBC 11B-302.1.
2. SLOPE SHALL BE 1:48. WHERE DRAIN ARE PROVIDED, GRATE OPENING SHALL BE 1/4" MAX AND FLUSH WITH THE FLOOR SURFACE.
3. SEE MEN'S DETAIL BELOW FOR ADDITIONAL INFO.
4. SEE DETAIL 9, SHEET 9 FOR SHOWER DETAIL FOR SIZE AND CLEARANCES



2 ENLARGED SHOWER FLOOR PLAN AT (WOMEN)

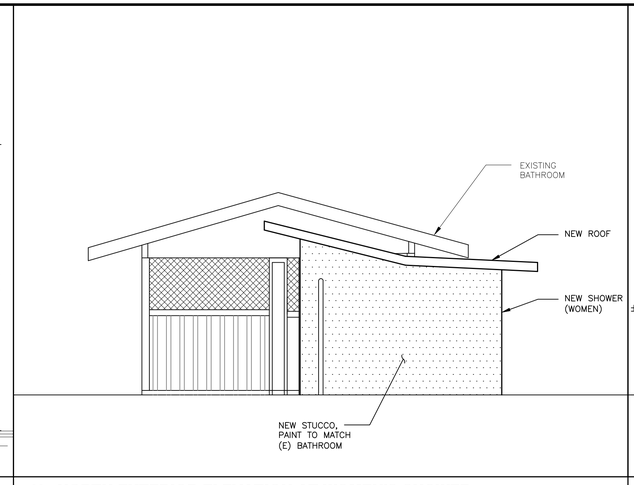
SCALE: 1" = 2'-0"

3 ENLARGED SHOWER FLOOR PLAN AT (MEN)

SCALE: 1" = 2'-0"

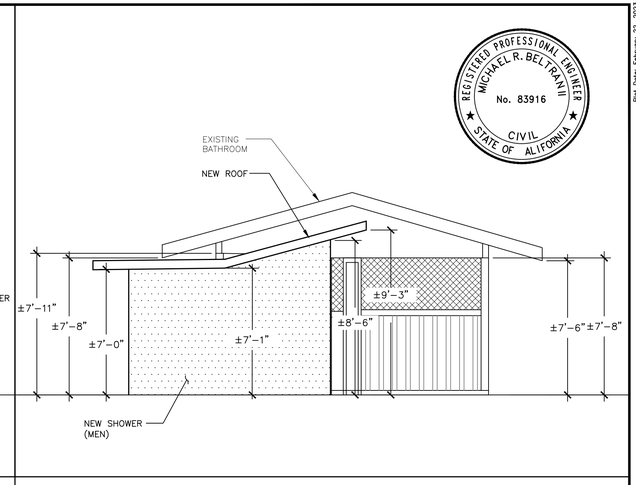
4 INT. ELEV / SECTION AT WOMEN'S SHOWER (A)

SCALE: NOT SCALE



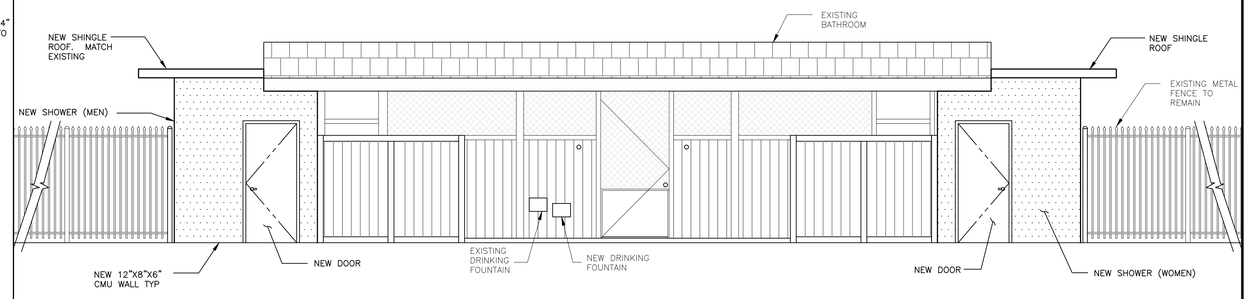
5 NORTH EXTERIOR ELEVATION AT WOMEN'S SHOWER

SCALE: 6" = 1'-0"



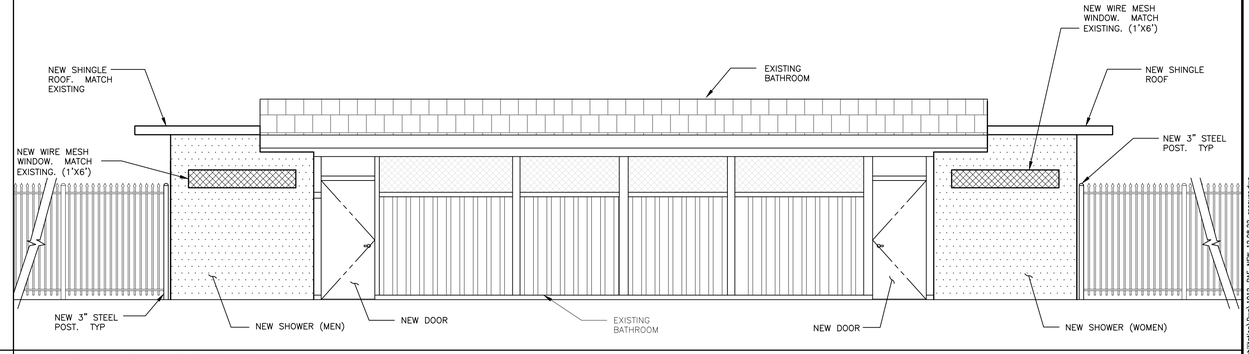
6 SOUTH EXTERIOR ELEVATION AT MEN'S SHOWER

SCALE: 3" = 1'-0"



7 EAST EXTERIOR ELEVATION

SCALE: 1" = 2'-0"



8 WEST EXTERIOR ELEVATION

SCALE: 1" = 2'-0"

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRAMI
No. 83916
CIVIL
STATE OF CALIFORNIA

Plot Date: February 22, 2023

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

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City of Merced
"Gateway to Yosemite"
DEPARTMENT OF ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

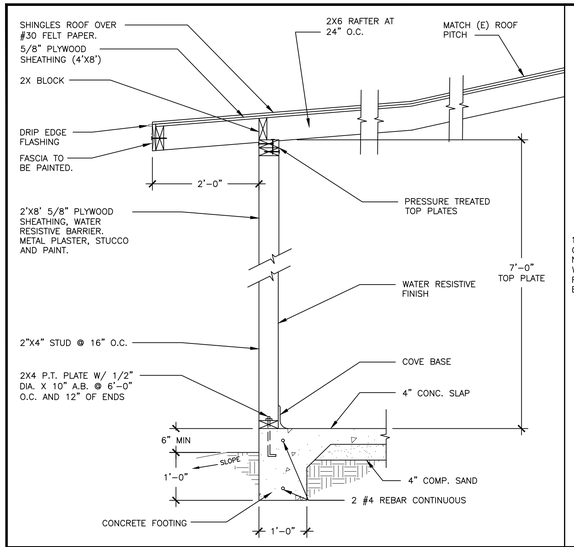
SHOWER PLANS AND EXTERIOR ELEVATIONS

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

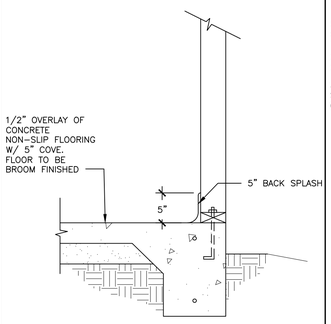
DESIGNED BY: A VANG	
DATE: 03/29/2022	
CH. BY: ENGR DEPT/BLDG DEPT	
DATE: APRIL 2022	
REV DATE: --/--/--	
BY:	
SCALE: AS SHOWN	

FILE NO. 1012
Sheet 8 of 12

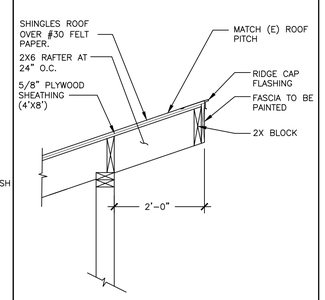
I:\1 Current Projects\122011 – Ada Givens Pool Rehabilitation\Dwg\1013-PAF_NEW 12.08.22_recover.dwg



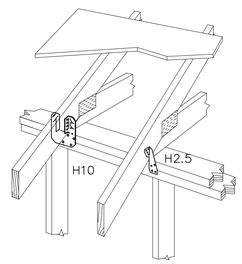
1 FOOTING AND EAVE DETAIL
SCALE: NOT TO SCALE



2 COVE BASE & ANTI-SKID FLOORING DETAIL
SCALE: NOT TO SCALE



3 RIDGE DETAIL
SCALE: NOT TO SCALE



Simpson Strong-Tie
Truss and Rafter Connections to Wood Top Plates

4 SIMPSON STRONG-TIE
SCALE: NOT TO SCALE

GATES AND DOORS OPENING INTO THE POOL ENCLOSURE ALSO SHALL MEET THE FOLLOWING SPECIFICATIONS:

A. GATES AND DOORS SHALL BE EQUIPPED WITH SELF CLOSING AND SELF LATCHING DEVICES. THE SELF LATCHING DEVICE SHALL KEEP THE GATE OR DOOR SECURELY CLOSED. GATES AND DOORS SHALL OPEN OUTWARDLY AWAY FROM THE POOL EXCEPT WHERE OTHERWISE PROHIBITED BY LAW. HAND ACTIVATED DOOR OR GATE OPENING HARDWARE SHALL BE LOCATED AT A HEIGHT NO LOWER THAN 42 INCHES BUT NO HIGHER THAN 44 INCHES ABOVE THE DECK OR WALKWAY;

B. GATES AND DOORS SHALL BE CAPABLE OF BEING LOCKED DURING TIMES WHEN THE POOL IS CLOSED. EXIT DOORS WHICH COMPLY WITH CHAPTER 10, TITLE 24, CALIFORNIA CODE OF REGULATIONS SHALL BE CONSIDERED AS MEETING THESE REQUIREMENTS.

C. BAR SPACING SHALL NOT ALLOW PASSAGE OF A 4-INCH DIAMETER SPHERE.

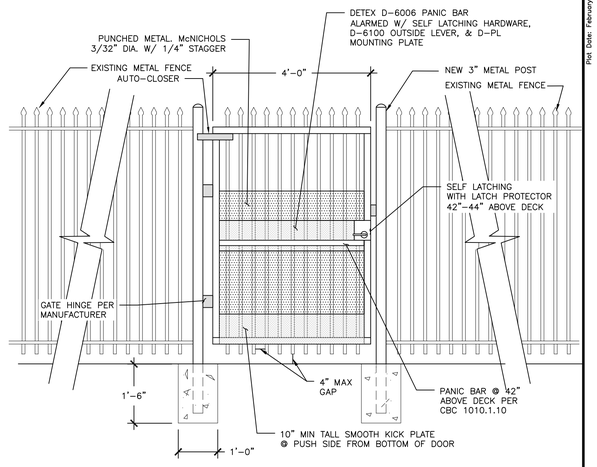
D. ENSURE A MAX. NUMBER OF POOL USER SIGN IS INSTALLED. IF NOT, INSTALL ONE PER CURRENT BUILDING CODES

E. PROVIDE PANIC OR FIRE-EXIT HARDWARE FOR GATES IF SERVING AN OCCUPANT LOAD OF 50 OR MORE. (CBC 1010.1.10)

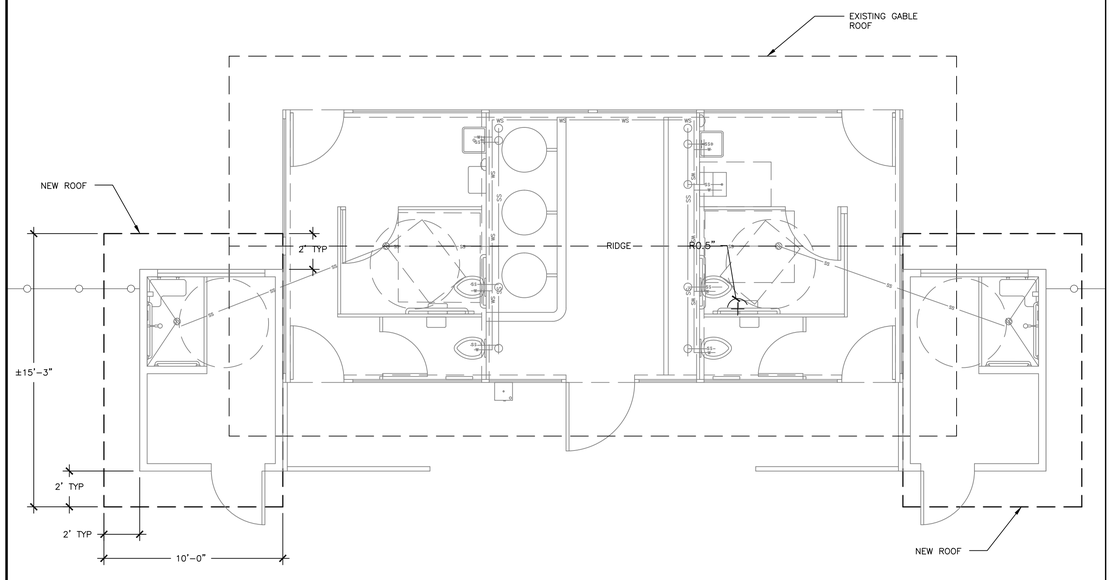
F. GATE CLOSER SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (CBC 11B-404.2.8.1)

G. FORCE REQUIRED TO OPERATED THE SWINGING GATE SHALL BE 5 POUNDS MAXIMUM. (CBC 11B-404.2.9)

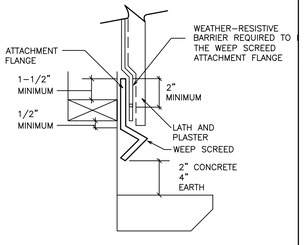
H. SWINGING GATE SURFACES WITHIN 10 INCHES OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN THESE SURFACES SHALL BE WITHIN 1/16 INCH OF THE SAME PLANE AS THE OTHER AND BE FREE OF SHARP OR ABRASIVE EDGES. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED. (CBC 11B-404.2.10)



5 GATE DETAIL
SCALE: NOT TO SCALE



6 ROOF PLAN
SCALE: 1" = 4'-0"



7 WEEP SCREED
SCALE: NOT TO SCALE

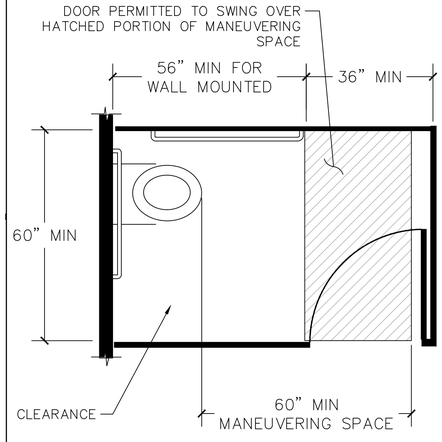


FIGURE PER SECTION 11B-604 OF THE CBC

8 MANEUVERING SPACE - STALL WITH SIDE-OPENING DOOR
SCALE: NOT TO SCALE

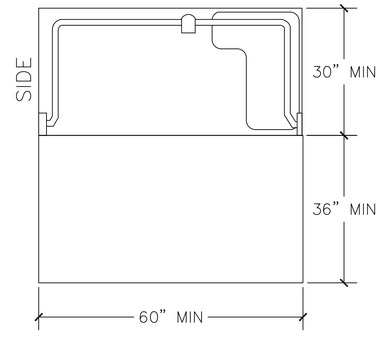


FIGURE PER SECTION 11B-608 OF THE CBC

9 MANEUVERING SPACE - SHOWER
SCALE: NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRANTI
No. 83916
CIVIL
STATE OF CALIFORNIA

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

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DEPARTMENT OF ENGINEERING
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678 W. 18th Street (209) 385-6846

ROOF PLAN, MECHANICAL PLAN AND DETAILS

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BLDG DEPT
DATE:	APRIL 2022
REV DATE:	--/--/--
BY:	
SCALE:	AS SHOWN

FILE NO. 1012
Sheet 9 of 12

Plot Date: February 23, 2023

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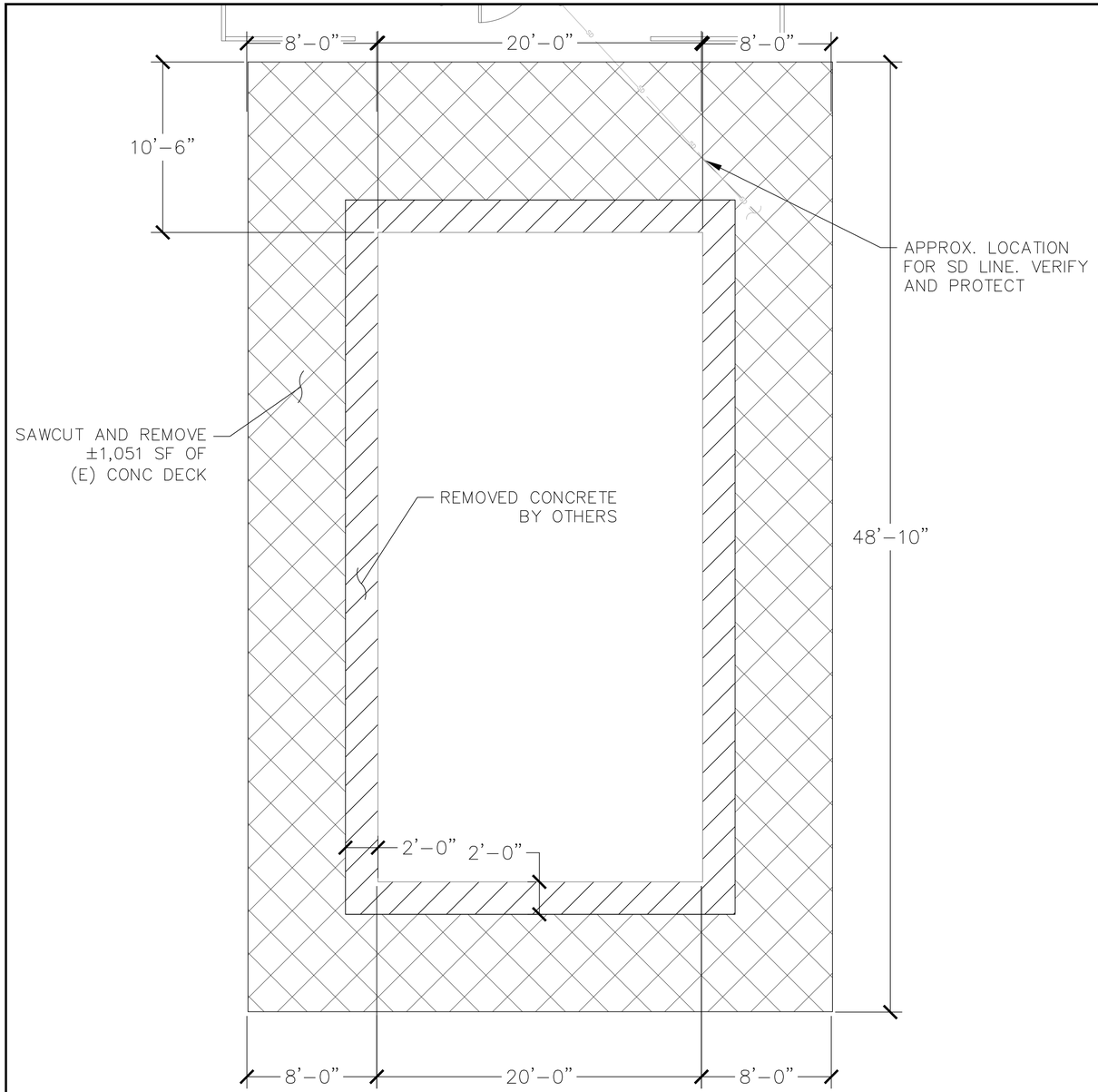
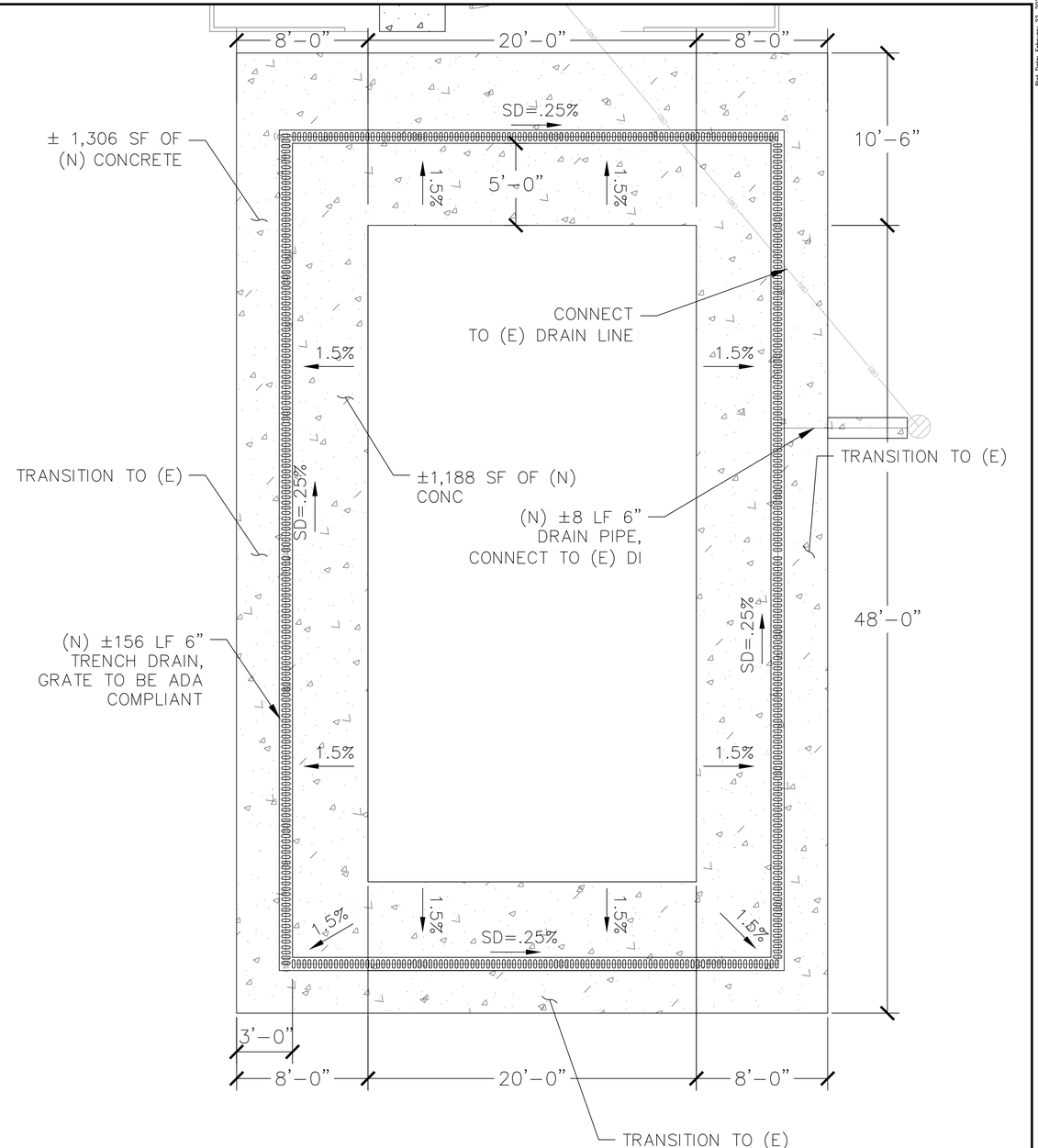


3 DEMOLITION OF POOL DECK
SCALE: 1" = 4'–0"



REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRANI
No. 83916
CIVIL
STATE OF CALIFORNIA

4 CONSTRUCTION OF POOL DECK
SCALE: 1" = 4'–0"

NO.	DATE	BY	REVISION MADE
1	--/--/--	–	–

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POOL DECK PLAN

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BLDG DEPT
DATE:	APRIL 2022
REV DATE:	--/--/--
BY:	
SCALE:	AS SHOWN

FILE NO. 1012
Sheet **10** of 12

Plot Date: February 22, 2023
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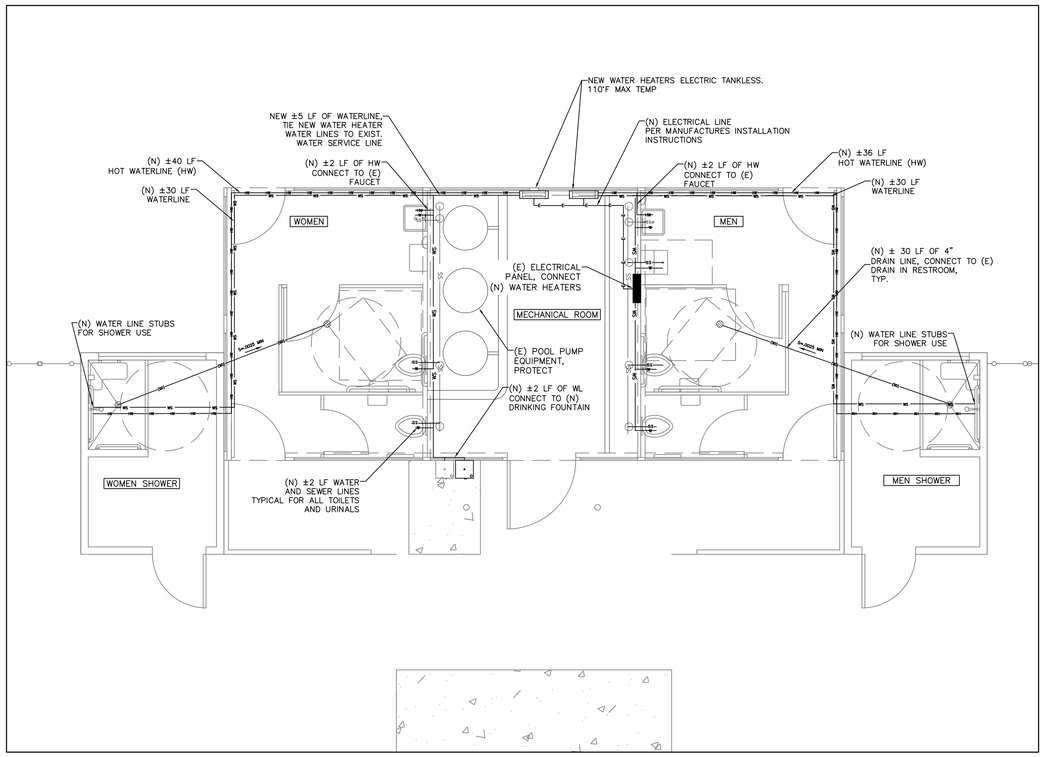

PLUMBING FIXTURE SCHEDULE					
DESCRIPTION	Qty	FINISH	COLD	HOT	WASTE
URINAL PARTITION	1	OFF-WHITE/ ME			
BATHROOM PARTITION – FOR ADA AND NON-ADA STALL	4	OFF-WHITE/ ME			
GRAB BARS IN RESTROOMS (36" MIN)	4	SS			
TOILET PAPER DISPENSER	4	WHITE			
TOILET COVER DISPENSER	4	SS			
SANITARY NAPKIN DISPOSAL	2	SS			
SOAP DISPENSER (RESTROOMS)	2	WHITE			
PORTABLE HOT WATER HEATER	2		0'-0 3/4"	0'-0 3/4"	
SHOWER HEAD PLUS KNOBS	2	SS	0'-0 3/4"	0'-0 3/4"	
SOAP DISPENSER (SHOWERS)	2	WHITE			
GRAB BARS IN SHOWERS (36" MIN)	4	SS			
WALL MOUNT SHOWER ADA CHAIR	2	WHITE			
4" SHOWER DRAIN INLET	2	PVC			0'-4"
COLD WATER LINE	80 LF	PVC	0'-0 3/4"		
HOT WATER LINE	85 LF	PVC		0'-0 3/4"	
SEWER LINE	10 LF	PVC			0'-4"
DRINKING FOUNTAIN	1	SS	0'-0 1/4"		0'-1 1/4"
DRINKING FOUNTAIN ALCOVE	1				
TOILETS	4	WHITE	0'-1"		0'-4"
URINAL	1	WHITE	0'-0 3/4"		0'-2"
BATHROOM FAUCET	3	SS	0'-0 1/2"	0'-0 1/2"	

NOTES:
ME = MATCH EXISTING
SS = STAINLESS STEEL

UTILITY NOTES

1. ALL PLUMBING SHALL BE PER CURRENT PLUMBING AND BUILDING CODES.
2. ALL WATERLINE TO BE 1" PVC SCH. 40.
3. WATERLINES TO BE MOUNTED ALONG WALL NEAR CEILING.
4. BORE HOLES FOR WATER LINES THROUGH WALLS.
5. CONNECT (N) HOT WATER TO SHOWERS AND BATHROOM SINKS.
6. ADJUST LOCATION OF WATER HEATER AND LINES IF REQUIRED. COORDINATE WITH CITY.
7. CONTRACTOR TO PROVIDE ALL SUPPLIES AND FITTINGS TO INSTALL THE WATER HEATERS AND ALL WATER LINES.
8. ALL DRAINAGE AND SEWER LINES TO BE 4" SCH. 80.
9. MINIMUM SLOPE ON SEWER TO BE 2% MIN, DRAINAGE TO BE .25% MIN.
10. TIE NEW DRAIN INLET FROM SHOWERS TO EXISTING INLET IN RESTROOMS. ADJUST DRAIN LINE AS NECESSARY, MAINTAIN .25% MIN SLOPE.

ELECTRICAL NOTES

1. ALL ELECTRICAL SHALL BE PER CURRENT ELECTRICAL AND BUILDING CODES.
2. CONNECT (N) 240V ELECTRIC WATER HEATERS TO EXISTING PANEL PER MANUFACTURERS RECOMMENDATIONS AND INSTALLATION INSTRUCTIONS.
3. CONTRACTOR TO PROVIDE ALL PARTS/SUPPLIES TO INSTALL AND CONNECT BOTH WATER HEATERS.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRAN II
No. 83916
CIVIL
STATE OF CALIFORNIA

NO.	DATE	BY	REVISION MADE
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UTILITY AND ELECTRICAL PLAN

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY:	A VANG
DATE:	03/29/2022
CH. BY:	ENGR DEPT/BLDG DEPT
DATE:	APRIL 2022
REV DATE:	--/--/--
BY:	
SCALE:	3" = 1'-0"

FILE NO. 1012
Sheet 11 of 12

I:\1 Current Projects\122011 – ADA Givens Pool Rehabilitation\Dwg\1012-PAF_NEW 12.08.22_recover.dwg

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (July 2021, Includes July 2021 Supplement)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Plot Date: February 23, 2023

Y	N/A	RESPON. PARTY

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES

DIVISION 5.1 PLANNING AND DESIGN

SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), including neighborhood electric vehicles (NEV), partial zero emission vehicle (PZEV), advanced technology PZEV (AT ZEV) or CNG fueled (original equipment manufacturer only) regulated under Health and Safety Code section 43800 and CCR, Title 13, Sections 1961 and 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing High-Occupancy Vehicle (HOV) car pool lane stickers issued by the Department of Motor Vehicles.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES. In new projects or additions or alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as follows:

TABLE 5.106.5.2 - PARKING

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	3
25-50	6
51-75	9
76-100	12
101-150	18
151-200	21
201 AND OVER	AT LEAST 12% OF TOTAL[1]

1.Calculation for spaces shall be rounded up to the nearest whole number.

Note: Designated parking for clean air vehicles shall count towards the total parking spaces required by the local enforcing agencies.

5.106.5.2.1 - Parking stall marking. Paint, in the paint used for stall striping, the following characters such that the lower edge of the last word aligns with the end of the stall striping and is visible beneath a parked vehicle: CLEAN AIR / VAN POOL / EV

Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:

5.106.5.3.1 Single charging space requirements. [N] When only a single charging space is required per Table 5.106.5.3.3, a raceway is required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. A listed raceway capable of accommodating a 208/240 -volt dedicated branch circuit.
3. The raceway shall not be less than trade size 1".
4. The raceway shall originate at a service panel or a subpanel serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and listed suitable cabinet, box, enclosure or equivalent.
5. The service panel or subpanel shall have sufficient capacity to accommodate a minimum 40-ampere dedicated branch circuit for the future installation of the EVSE.

5.106.5.3.2 Multiple charging space requirements. [N] When multiple charging spaces are required per Table 5.106.5.3.3 raceway(s) is/are required to be installed at the time of construction and shall be installed in accordance with the California Electrical Code. Construction plans and specifications shall include, but are not limited to, the following:

1. The type and location of the EVSE.
2. The raceway(s) shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the charging equipment and into listed suitable cabinet(s), box(es), enclosure(s) or equivalent.
3. Plan design shall be based upon 40-ampere minimum branch circuits.
4. Electrical calculations shall substantiate the design of the electrical system, to include the rating of equipment and any on-site distribution transformers and have sufficient capacity to simultaneously charge all required EVs at its full rated amperage.
5. The service panel or subpanel(s) shall have sufficient capacity to accommodate the required number of dedicated branch circuit(s) for the future installation of the EVSE.

5.106.5.3.3 EV charging space calculations. [N] Table 5.106.5.3.3 shall be used to determine if single or multiple charging space requirements apply for the future installation of EVSE.

Exceptions: On a case-by-case basis where the local enforcing agency has determined EV charging and infrastructure is not feasible based upon one or more of the following conditions:

1. Where there is insufficient electrical supply.
2. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

TABLE 5.106.5.3.3

TOTAL NUMBER OF PARKING SPACES	NUMBER OF REQUIRED SPACES
0-9	0
10-25	2
26-50	4
51-75	7
76-100	9
101-150	13
151-200	18
201 AND OVER	10% of total[1]

1. Calculation for spaces shall be rounded up to the nearest whole number.

5.106.5.3.4 [N] Identification. The service panel or subpanel(s) circuit directory shall identify the reserved overcurrent protective device space(s) for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

5.106.5.3.5 [N] Future charging spaces qualify as designated parking as described in Section 5.106.5.2 Designated parking for clean air vehicles.

Note: Future electric vehicle charging spaces shall count towards the total parking spaces required by the local enforcing agencies.

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
Luminaire greater than 2 MH from property line	N/A	G1	G2	G3	G4
Luminaire front hemisphere is 1-2 MH from property line	N/A	G0	G1	G1	G2
Luminaire front hemisphere is 0.5-1 MH from property line	N/A	G0	G0	G1	G1
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented sc that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code,* Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
   Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: The surface parking area covered by solar photovoltaic shade structures, or shade structures, with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculations.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions: Walks, hardscape areas covered by solar photovoltaic shade structures, and hardscape areas covered by shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5, are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY

SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION

SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which ae two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multi-unit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

5.303.3.1 Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.
5.303.3.2.1 Wall-mounted Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

5.303.3.3 Showerheads. [BSC-CG]
5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

REGISTERED PROFESSIONAL ENGINEER
MICHAEL R. BELTRANI
No. 83916
CIVIL
STATE OF CALIFORNIA

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ALL REFERENCES AND WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALED DIMENSIONS AND SHALL BE VERIFIED ON THE SITE. ANY DISCREPANCY SHALL BE BROUGHT TO NOTICE OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK.

City of Merced
"Gateway to Yosemite"
DEPARTMENT OF ENGINEERING
ENGINEERING PROJECTS AND STANDARDS
678 W. 18th Street (209) 385-6846

CALIFORNIA GREEN CODE

PROJECT NO. 122011
ADA GIVENS POOL BATHROOM REHABILITATION
2900 GREEN STREET
MERCED, CA 95340

DESIGNED BY: A VANG
DATE: 03/29/2022
CH. BY: ENGR DEPT/BLDG DEPT
DATE: APRIL 2022
REV DATE: --/--/--
BY:
SCALE: AS SHOWN

FILE NO. 1012
Sheet 12 of 12

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