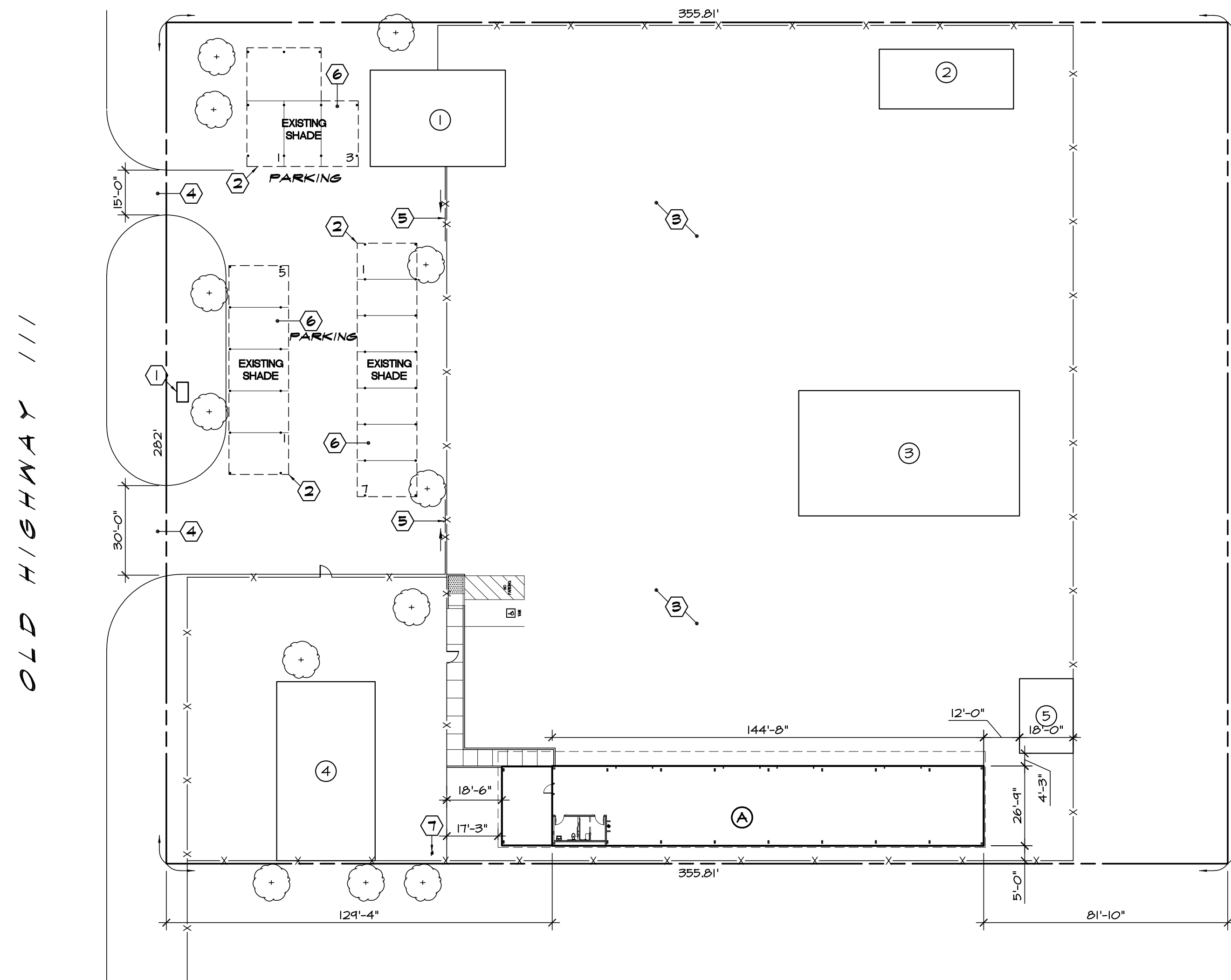


IMPERIAL COUNTY DEPARTMENT OF PUBLIC WORKS

BRAWLEY YARD BUILDING REPLACEMENT

4736 STATE HWY-111
BRAWLEY, CA. 92227

COUNTY PROJECT NO.



BUILDING IDENTIFICATION:

- ① EXISTING STRUCTURE TO REMAIN
- ② EXISTING BUILDING TO REMAIN
- ③ EXISTING BUILDING TO REMAIN
- ④ EXISTING BUILDING TO REMAIN
- ⑤ EXISTING BUILDING TO REMAIN
- Ⓐ PROPOSED NEW BUILDING

KEYNOTES:

- ① EXISTING ELECTRICAL EQUIPMENT TO REMAIN, PROTECT
- ② EXISTING SHADE TO REMAIN
- Ⓑ EXISTING YARD MAINTENANCE
- ④ EXISTING DRIVEWAY
- Ⓑ EXISTING ROLLING GATE
- ⑥ EXISTING PARKING STALLS
- ⑦ EXISTING POWER POLE TO REMAIN

PROPOSED SITE PLAN

SCALE: 1" = 30'-0" A

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AS2	FIRE ACCESS SITE PLAN
AS3	SITE PLAN DEMOLITION, ENLARGED FLOOR PLAN
ASX1	SITE ACCESSIBILITY DETAILS
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A2	ARCHITECTURAL SECTIONS
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CM1	COMMUNICATION PLAN

GENERAL NOTES

- EXAMINATION OF SITE AND CONTRACT DOCUMENTS:**
EACH BIDDER SHALL VISIT THE SITE OF THE PROPOSED WORK AND FULLY ACQUAINT HIMSELF WITH THE CONDITIONS RELATING TO THE CONSTRUCTION AND LABOR SO THAT HE MAY FULLY UNDERSTAND THE FACILITIES, DIFFICULTIES AND RESTRICTIONS ATTENDING THE EXECUTION OF THE WORK UNDER THE CONTRACT. BIDDERS SHALL THOROUGHLY EXAMINE AND BE FAMILIAR WITH THE DRAWINGS AND PROJECT MANUAL. THE FAILURE OR OMISSION OF ANY BIDDER TO RECEIVE OR EXAMINE ANY CONTRACT, FORM, INSTRUMENT, ADDENDUM OR OTHER DOCUMENT OR TO VISIT THE SITE AND ACQUAINT HIMSELF WITH CONDITIONS THERE EXISTING SHALL IN NO WISE RELIEVE ANY BIDDER FROM OBLIGATIONS WITH RESPECT TO HIS BID OR TO THE CONTRACT. THE SUBMISSION OF A BID SHALL BE TAKEN AS PRIMA FACIE EVIDENCE OF COMPLIANCE WITH THIS SECTION. THE ARCHITECT SHALL BE NOTIFIED PRIOR TO BID, OF ANY UNUSUAL CONDITIONS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR INTENT OF WORK TO BE ACCOMPLISHED, WHEREIN, A CLARIFICATION OR ADDENDUM MAY BE ISSUED.
- PROJECT SCOPE: COUNTY PROJECT NO.**
THE SCOPE OF WORK FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS:
 - BASE BID SHALL INCLUDE ALL WORK ON CONTRACT DOCUMENTS
 - REMOVE EXISTING STRUCTURE AND BASEMENT FROM SITE
 - PROVIDE AND INSTALL A PRE-ENGINEERED METAL BUILDING
 - ADDITIVE ALTERNATE
 - PROVIDE COST PROPOSAL FOR MECHANICAL DRIVEN 14'-0" ROLL-UP DOORS AT EACH DESIGNATED OPEN FRAME LOCATION
- GEOLOGICAL AND SOILS REPORT:**
A GEOTECHNICAL INVESTIGATION REPORT HAS BEEN ACCOMPLISHED FOR THE SITE AND IS ON FILE AT ARCHITECTS OFFICE, AND SOILS ENGINEERS OFFICE.
SOILS REPORT NO LE16219, NOVEMBER 24, 2016, AND ADDENDUM #1

SOILS ENGINEER: LANDMARK, INC.
780 NORTH 4th STREET
EL CENTRO, CALIFORNIA 92243
(760) 310-3000

ALL GENERAL CONTRACTORS AND EARTH WORK SUBCONTRACTORS SHALL REVIEW THE SOILS REPORT PRIOR TO BID SUBMITTAL. COPIES OF REPORT ARE AVAILABLE UPON REQUEST AND NOT LESS THAN 7 DAYS PRIOR TO BID DATE.

- CODES AND STANDARDS:**
APPLICABLE CODES:
ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24 CCR
2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, CCR
(2015 INTERNATIONAL BUILDING CODE WITH CALIFORNIA 2010 AMENDMENTS)
2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2014 NATIONAL ELECTRICAL CODE WITH CALIFORNIA 2010 AMENDMENTS)
2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR
(2015 UNIFORM MECHANICAL CODE WITH CALIFORNIA 2010 AMENDMENTS)
2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2015 UNIFORM PLUMBING CODE WITH CALIFORNIA 2010 AMENDMENTS)
2016 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2016 CALIFORNIA FIRE CODE (CFC), PART 7, TITLE 24 CCR
(2015 INTERNATIONAL FIRE CODE WITH CALIFORNIA 2010 AMENDMENTS)

2016 CALIFORNIA REFERENCE STANDARDS, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

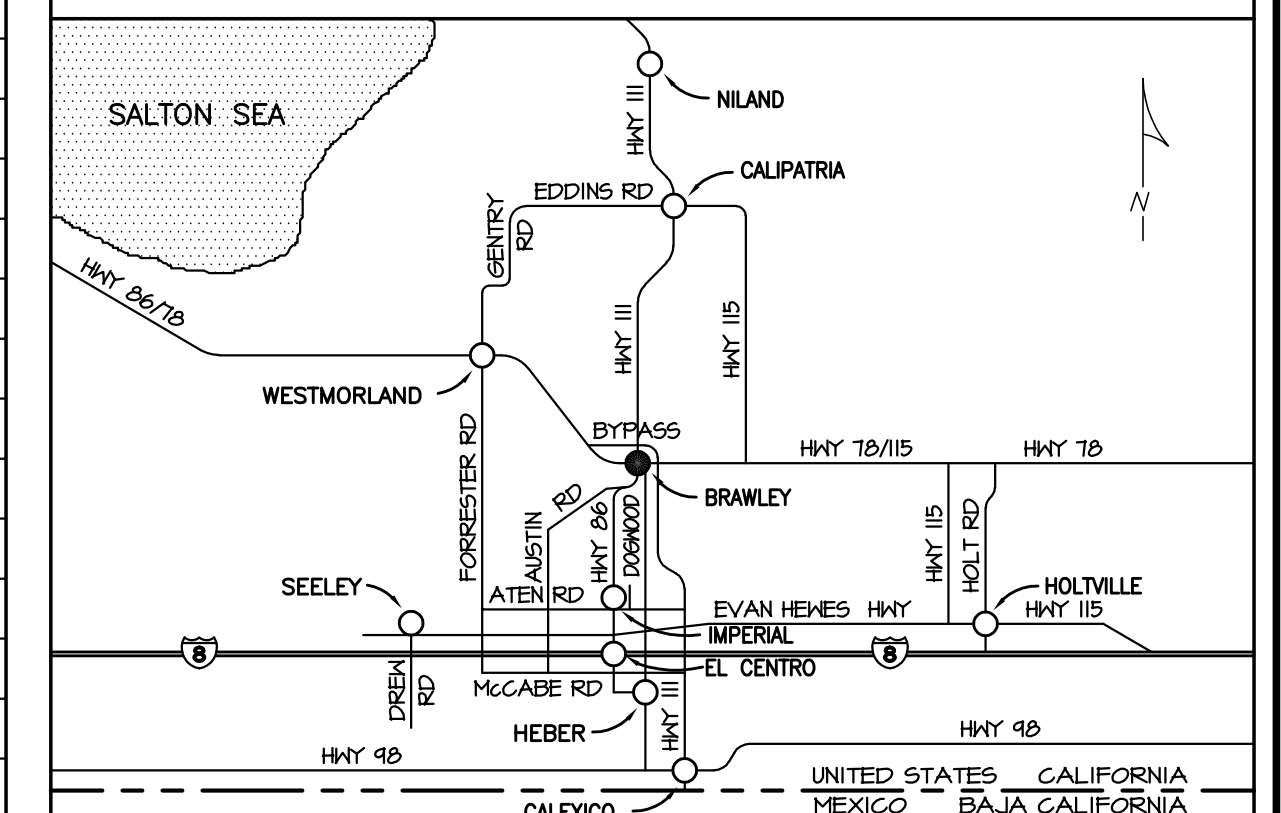
PARTIAL LIST OF APPLICABLE STANDARDS:
NFPA 13 AUTOMATIC SPRINKLER SYSTEM
NFPA 14 STANDPIPE SYSTEMS (CA AMENDED)
NFPA 17A WET CHEMICAL SYSTEMS
NFPA 20 STATIONARY PUMPS
NFPA 24 PRIVATE FIRE MAINS (CA AMENDED)
NFPA 72 NATIONAL FIRE ALARM CODE (CA AMENDED)
NFPA 80 FIRE DOOR AND OTHER OPENING PROTECTIVES
NFPA 253 CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS
NFPA 2001 CLEAN AGENT FIRE EXTINGUISHING SYSTEMS

REFERENCE CODE SECTION FOR NFPA STANDARDS - 2015 CFC (SFM) CHAP 35
SEE CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

- INSPECTION:**
A PROJECT INSPECTOR, EMPLOYED BY THE OWNER AND APPROVED BY THE BUILDING DEPARTMENT HAVING JURISDICTION SHALL PROVIDE INSPECTIONS AS REQUIRED. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. THIS PROJECT SHALL REQUIRE:
 - INSPECTIONS IN CONCRETE
 - INSPECTIONS OF SOILS
- DEFERRED APPROVALS:**
SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
 - METAL BUILDING DRAWINGS, STRUCTURAL CALCULATIONS, AND FOUNDATION CALCULATIONS

- CONSTRUCTION FIRE SAFETY:**
CONTRACTOR IS RESPONSIBLE FOR FIRE SAFETY DURING DEMOLITION AND CONSTRUCTION AND SHALL COMPLY WITH CFC CHAPTER 14.
- BUILDING DATA:**
BRAWLEY YARD BUILDING
OCCUPANCY S1 HEIGHT 24'-0" E.H.
CONSTRUCTION TYPE V-B CONSTRUCTION AREA 4,332 SQ FT
FIRE SPRINKLER SYSTEM NONE ALLOWABLE AREA 9,000 SQ FT
NUMBER OF STORIES 1

VICINITY MAP



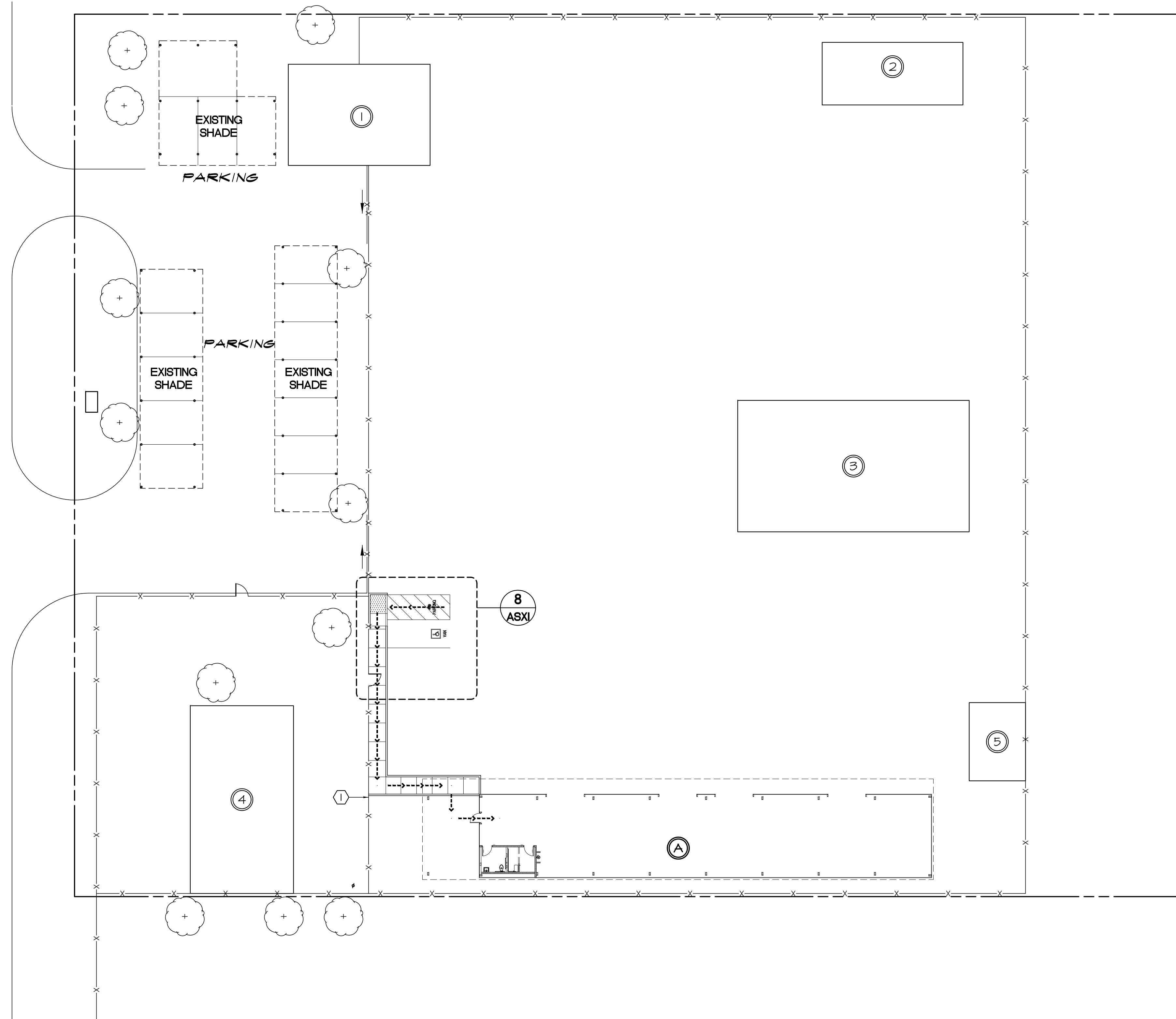
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Architecture/Engineering
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EL CENTRO, CA. 92243
760 353 5440

Document Date: 04-06-18
Date Last Revised:

Project Title: IMPERIAL COUNTY PUBLIC WORKS
BRAWLEY YARD BUILDING REPLACEMENT
Sheet Title: TITLE SHEET, SITE PLAN, GENERAL NOTES, AND INDEX

Project Number: 17-010
Sheet Number: T

OLD HIGHWAY ///



KEYNOTES:

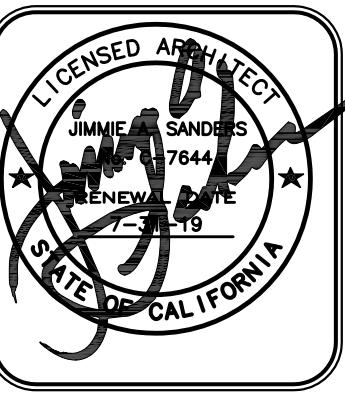
① PATH OF TRAVEL (P.O.T.) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 4'-0" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. P.O.T. SHALL MAINTAIN FREE OF OVERHANGING OBSTRUCTIONS TO 6'-8" MIN. (113B.2.2) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 2'-3" AND LESS THAN 6'-8" (113B.2.6). ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL, AND THE PATH OF TRAVEL COMPLIES WITH CBC 1135B

LEGEND:

--->--- PROPOSED ACCESSIBLE PATH OF TRAVEL

BUILDING IDENTIFICATION:

- ① EXISTING STRUCTURE TO REMAIN
- ② EXISTING BUILDING TO REMAIN
- ③ EXISTING BUILDING TO REMAIN
- ④ EXISTING BUILDING TO REMAIN
- ⑤ EXISTING BUILDING TO REMAIN
- Ⓐ PROPOSED NEW BUILDING



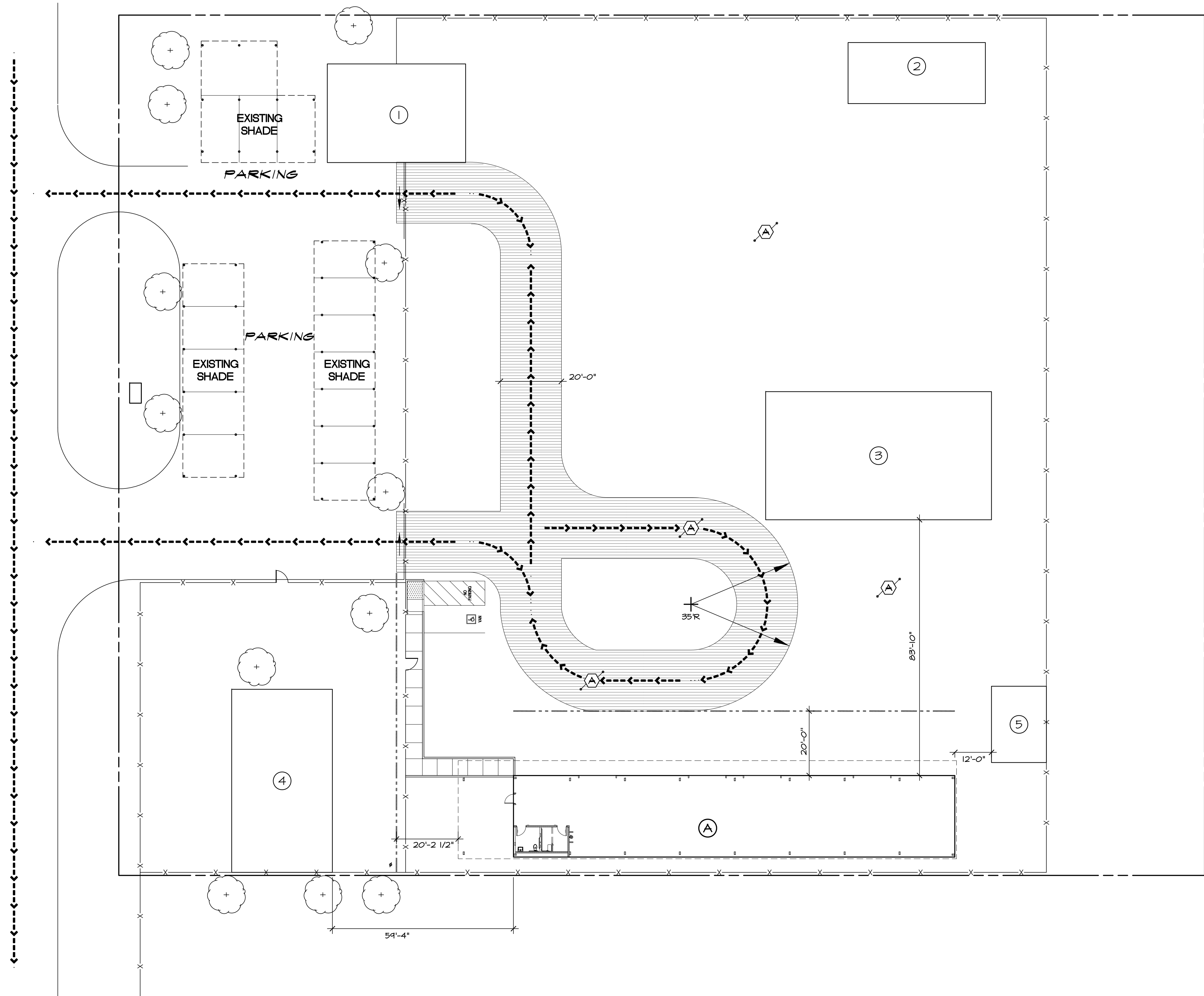
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Project Title
 IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY MAINTENANCE YARD
 Sheet Title
 ACCESSIBILITY SITE PLAN

Project Number
 17-0100
 Sheet Number
 AS1

OLD HIGHWAY



KEYNOTES:

(A) EXISTING ALL WEATHER SURFACE TO SUPPORT FIRE TRUCK

LEGEND:

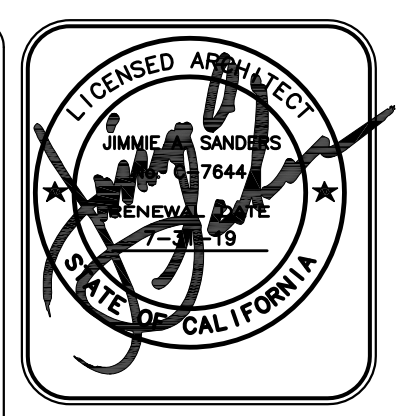
(H) EXISTING FIRE HYDRANT w/ GATE VALVE
 - - - - - FIRE TRUCK ACCESS ROUTES (ALL WEATHER SURFACE)
 - - - - - ASSUMED PROPERTY LINE

BUILDING IDENTIFICATION:

- (1) EXISTING STRUCTURE TO REMAIN
- (2) EXISTING BUILDING TO REMAIN
- (3) EXISTING BUILDING TO REMAIN
- (4) EXISTING BUILDING TO REMAIN
- (5) EXISTING BUILDING TO REMAIN
- (A) PROPOSED NEW BUILDING

BUILDING DATA:

NEW BUILDING	.....	5-1
OCCUPANCY	.....	TYPE V-B
CONSTRUCTION TYPE	.....	NONE
FIRE SPRINKLER SYSTEM	.....	1
NUMBER OF STORIES	.....	9,864 SQ FT
ENCLOSED AREA	.....	468 SQ FT
SHADED AREA	4332 SQ FT
TOTAL AREA	9,000 SQ FT (TABLE 503)
ALLOWABLE AREA	9,000 > 4,332 = OK



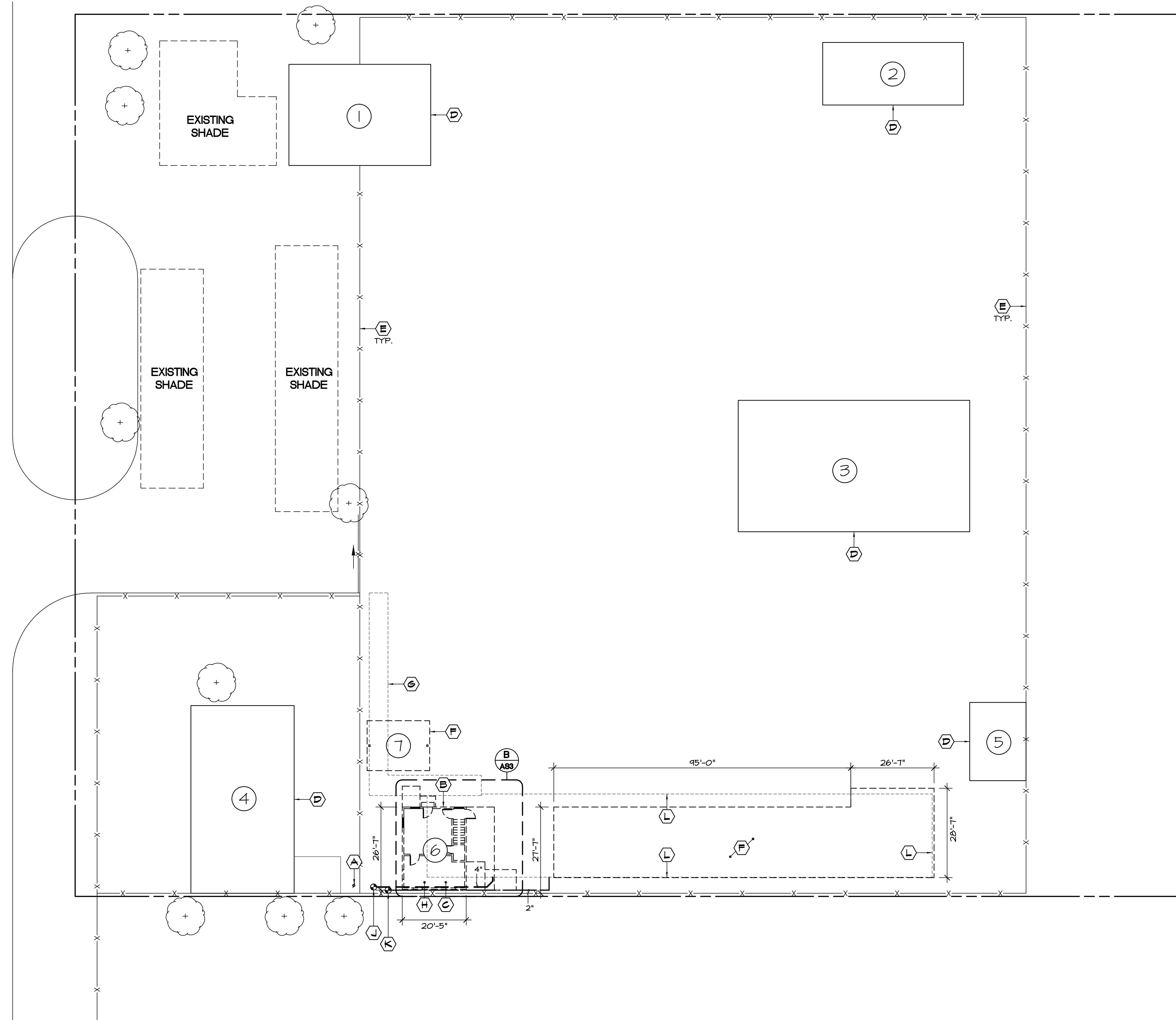
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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY MAINTENANCE YARD**
 Sheet Title
FIRE ACCESS PLAN

Project Number	17-0100
Sheet Number	AS2

OLD HIGHWAY ///



SITE PLAN KEYNOTES

- (A) EXISTING POWER POLE TO REMAIN, PROTECT
- (B) EXISTING BUILDING TO BE DEMOLISHED
- (C) EXISTING BASEMENT TO BE DEMOLISHED
- (D) EXISTING BUILDING TO REMAIN, PROTECT
- (E) EXISTING FENCE TO REMAIN, PROTECT - TYPICAL
- (F) EXISTING SHADE STRUCTURE TO BE DEMOLISHED
- (G) LINE OF PROPOSED SIDEWALK
- (H) DEMOLISH IN PLACE EXISTING BASEMENT AND BACKFILL WITH NATIVE SOIL, TO SUPPORT NEW BUILDING FOUNDATION
- (J) POINT OF CONNECTION TO NEAREST EXISTING SEWER LINE
- (K) POINT OF CONNECTION TO NEAREST EXISTING WATER LINE
- (L) PROPOSED NEW BUILDING PERIMETER

LEGEND:

- NEW SEWER LINE, SIZE NOTED
- NEW WATER LINE, SIZE NOTED

BUILDING IDENTIFICATION:

- (1) EXISTING STRUCTURE TO REMAIN
- (2) EXISTING BUILDING TO REMAIN
- (3) EXISTING BUILDING TO REMAIN
- (4) EXISTING BUILDING TO REMAIN
- (5) EXISTING BUILDING TO REMAIN
- (6) EXISTING BUILDING TO BE DEMOLISHED
- (7) EXISTING BUILDING TO BE DEMOLISHED

NOTES:

CONTRACTOR SHALL REPAIR OR REPLACE ANY LINE BROKEN OR DAMAGED DURING COURSE OF PLACEMENT OF NEW LINES, CONSTRUCTION OF TRENCHING, OR HEAVY EQUIPMENT ON SITE AT NO COST TO OWNER.

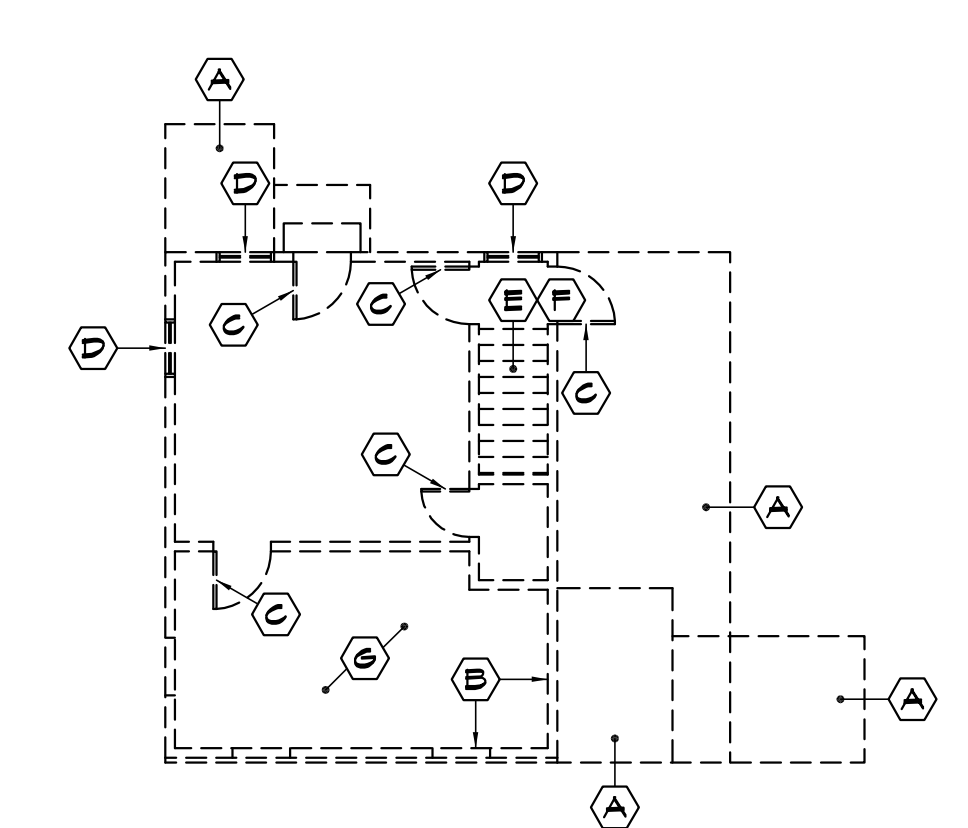
PRIOR TO ANY EXCAVATION THE SITE SHALL BE VISITED BY A "DIG ALERT" COMPANY FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITY LINES.

CAP ALL STUBBED OUT CONDUIT FOR FUTURE.

PROVIDE FULL STRING FOR ALL CONDUIT.

ENLARGED FLOOR PLAN KEYNOTES

- (A) REMOVE EXISTING PORTION OF CONCRETE SLAB
- (B) REMOVE EXISTING 6" WOOD STUD WALL
- (C) REMOVE EXISTING DOOR AND FRAME
- (D) REMOVE EXISTING WINDOW
- (E) REMOVE EXISTING STAIRS
- (F) REMOVE EXISTING BASEMENT, REFILL
- (G) DEMOLISH IN PLACE EXISTING BASEMENT AND BACKFILL WITH NATIVE SOIL TO SUPPORT NEW BUILDING FOUNDATION



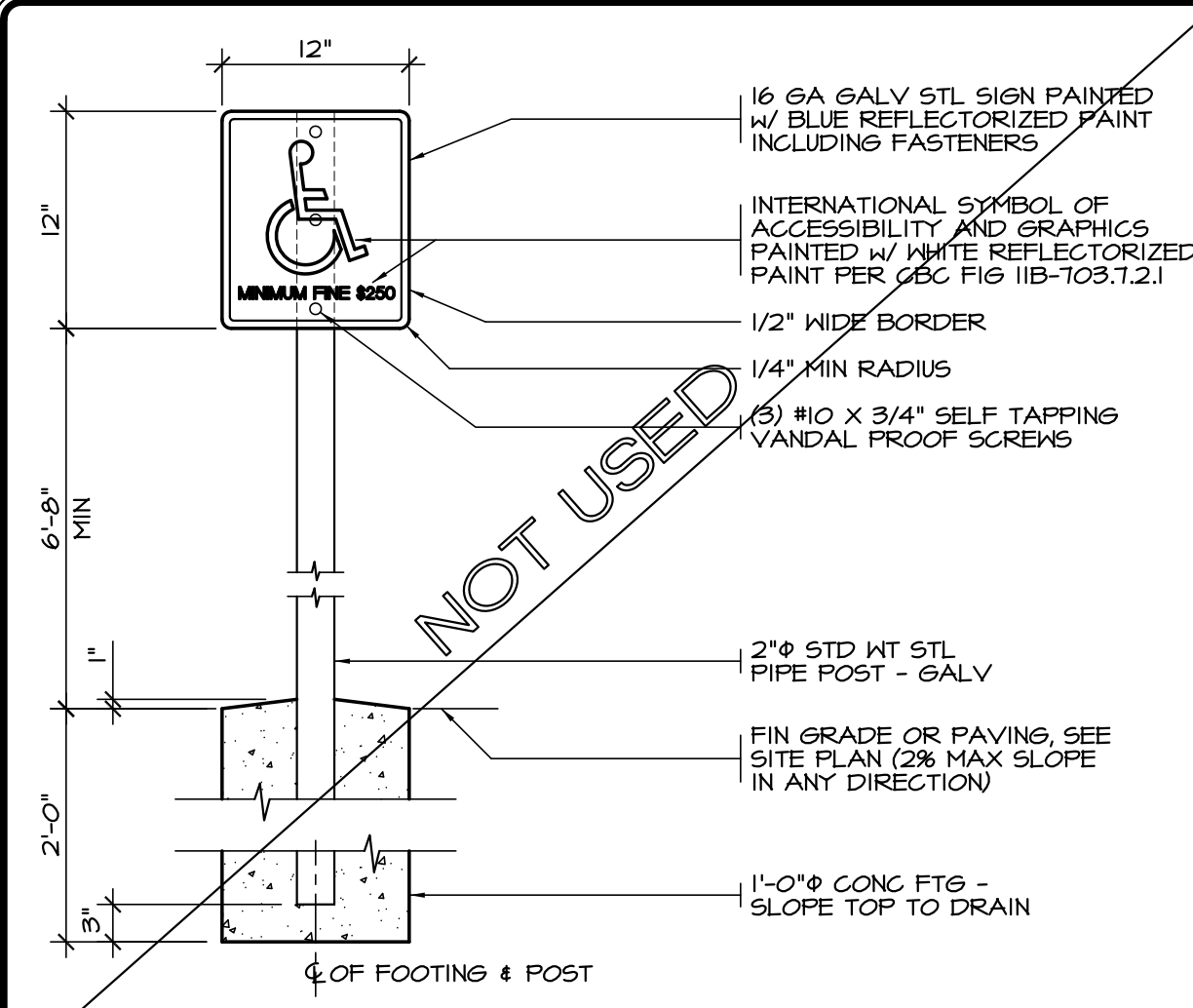
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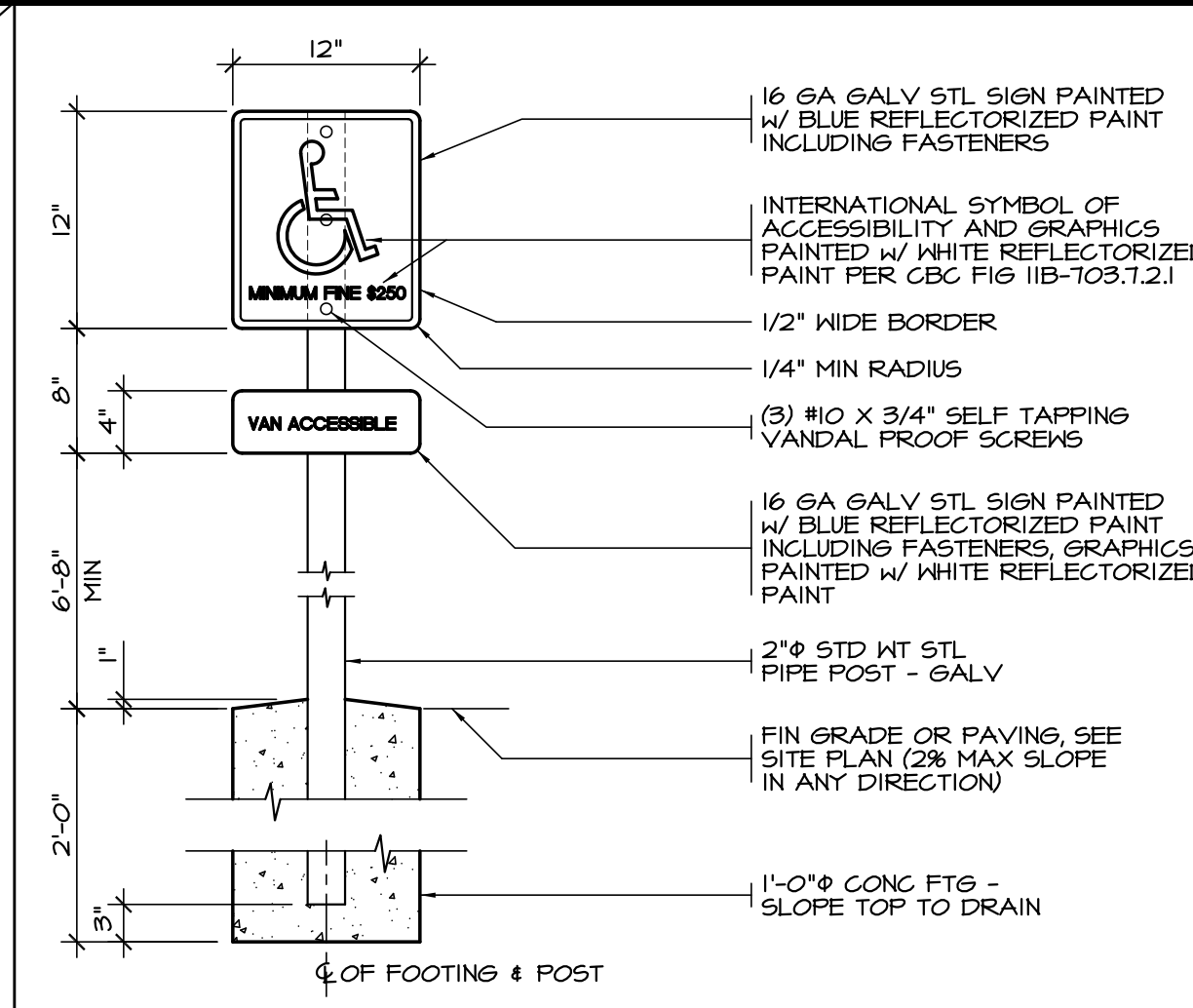
Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY MAINTENANCE YARD**

Sheet Title
DEMOLITION SITE PLAN, ENLARGED FLOOR PLAN

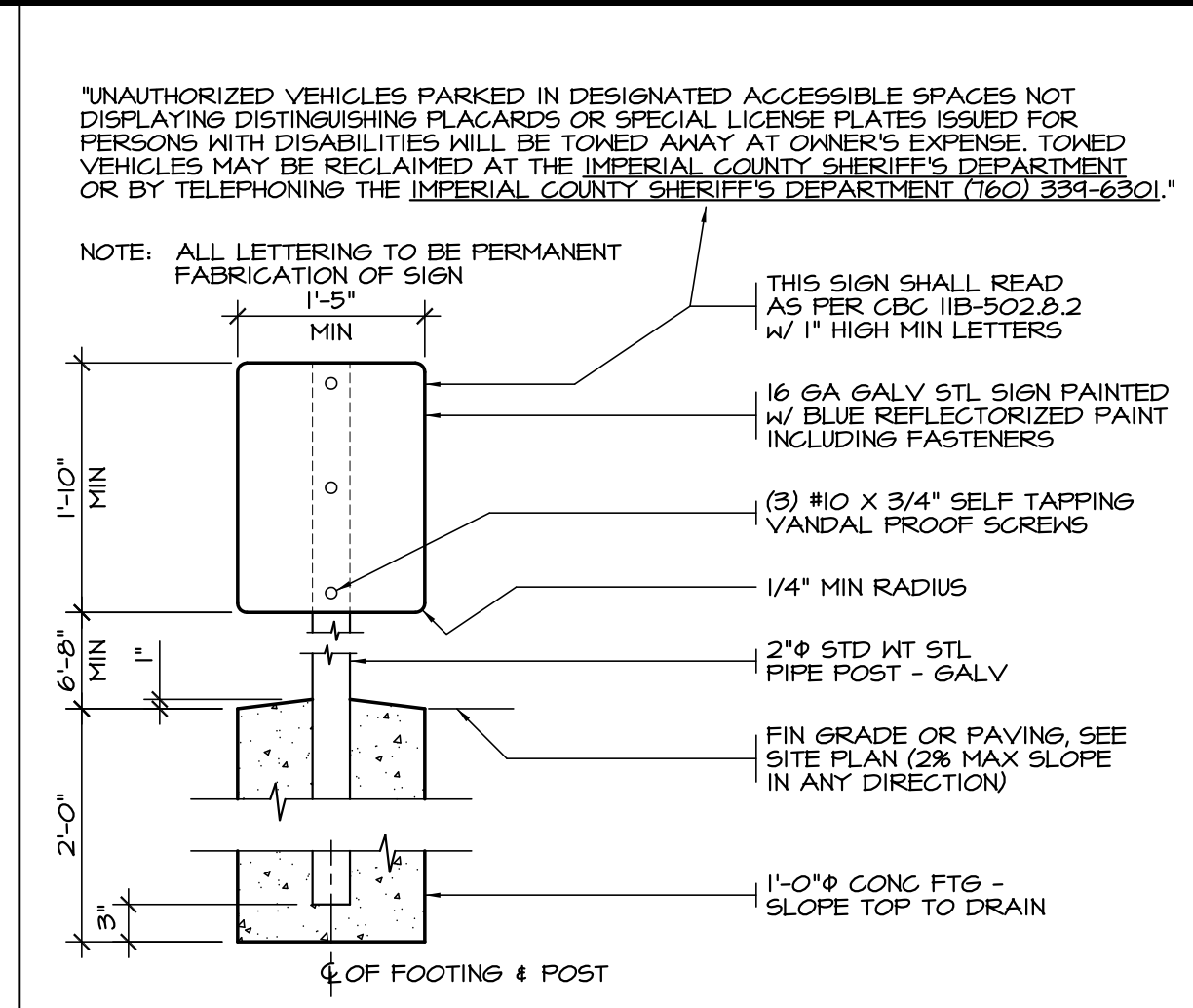
Project Number	17-0100
Sheet Number	AS3



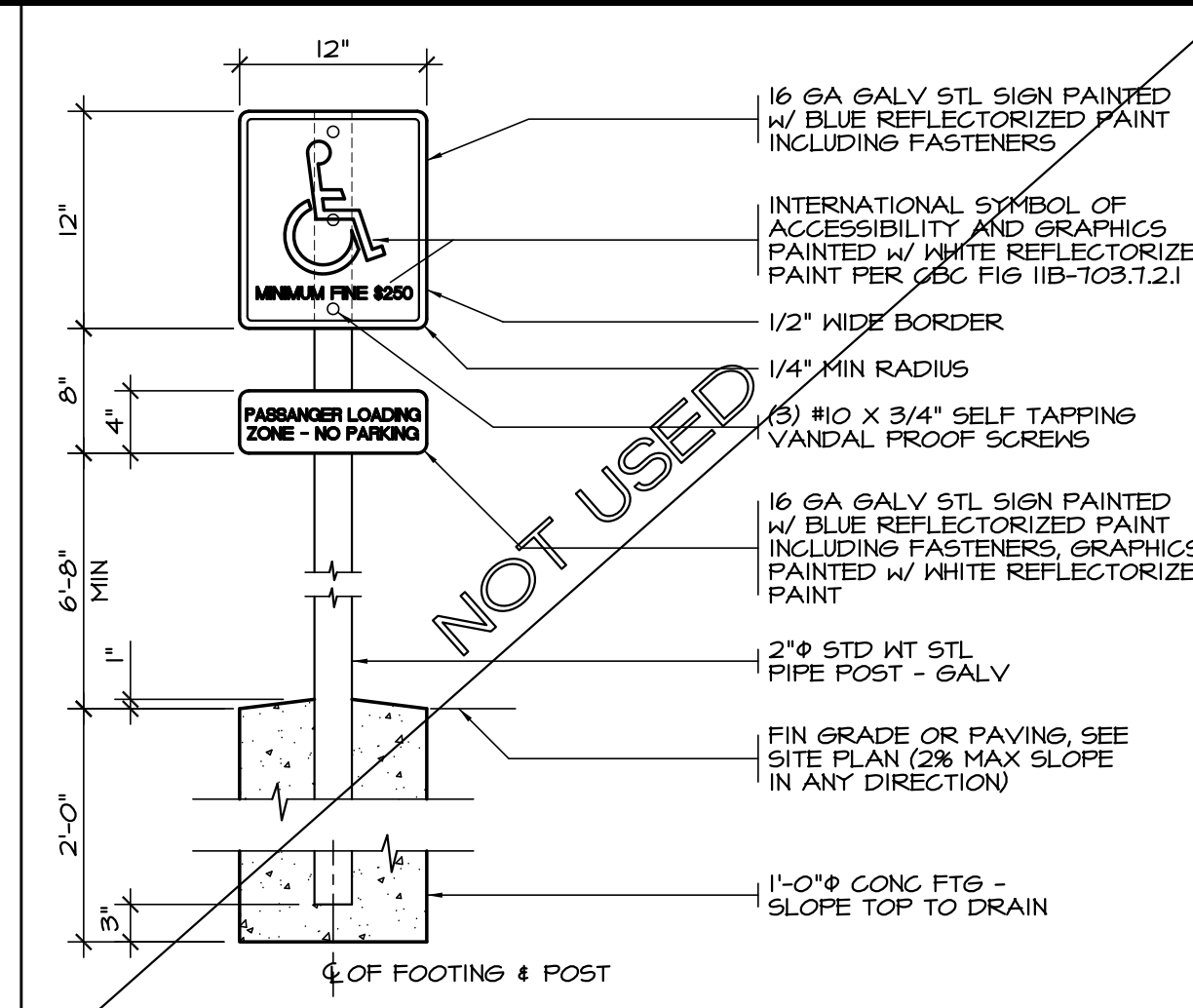
STANDARD PARKING SIGN SCALE: 1" = 1'-0" **1**



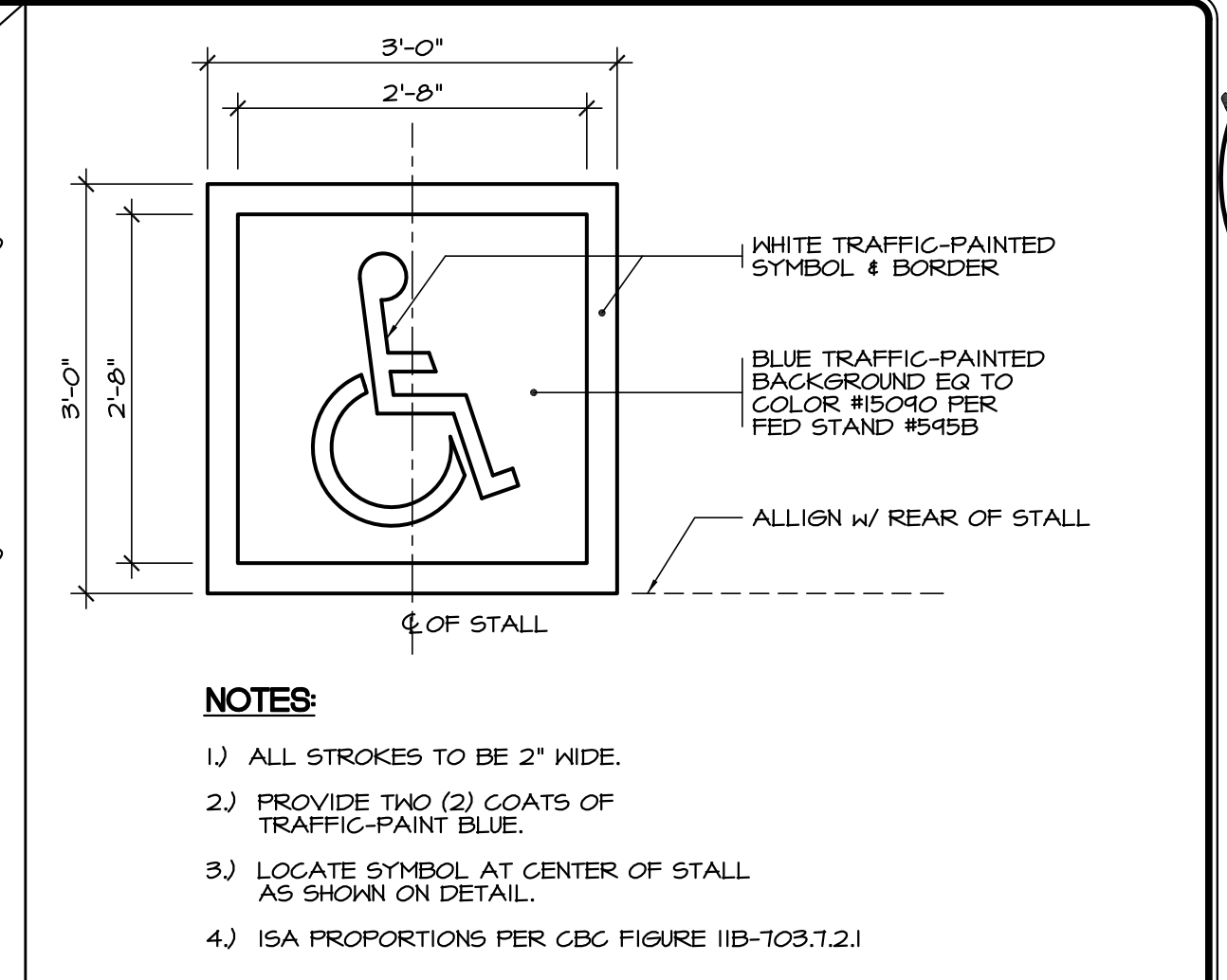
VAN PARKING SIGN SCALE: 1" = 1'-0" **2**



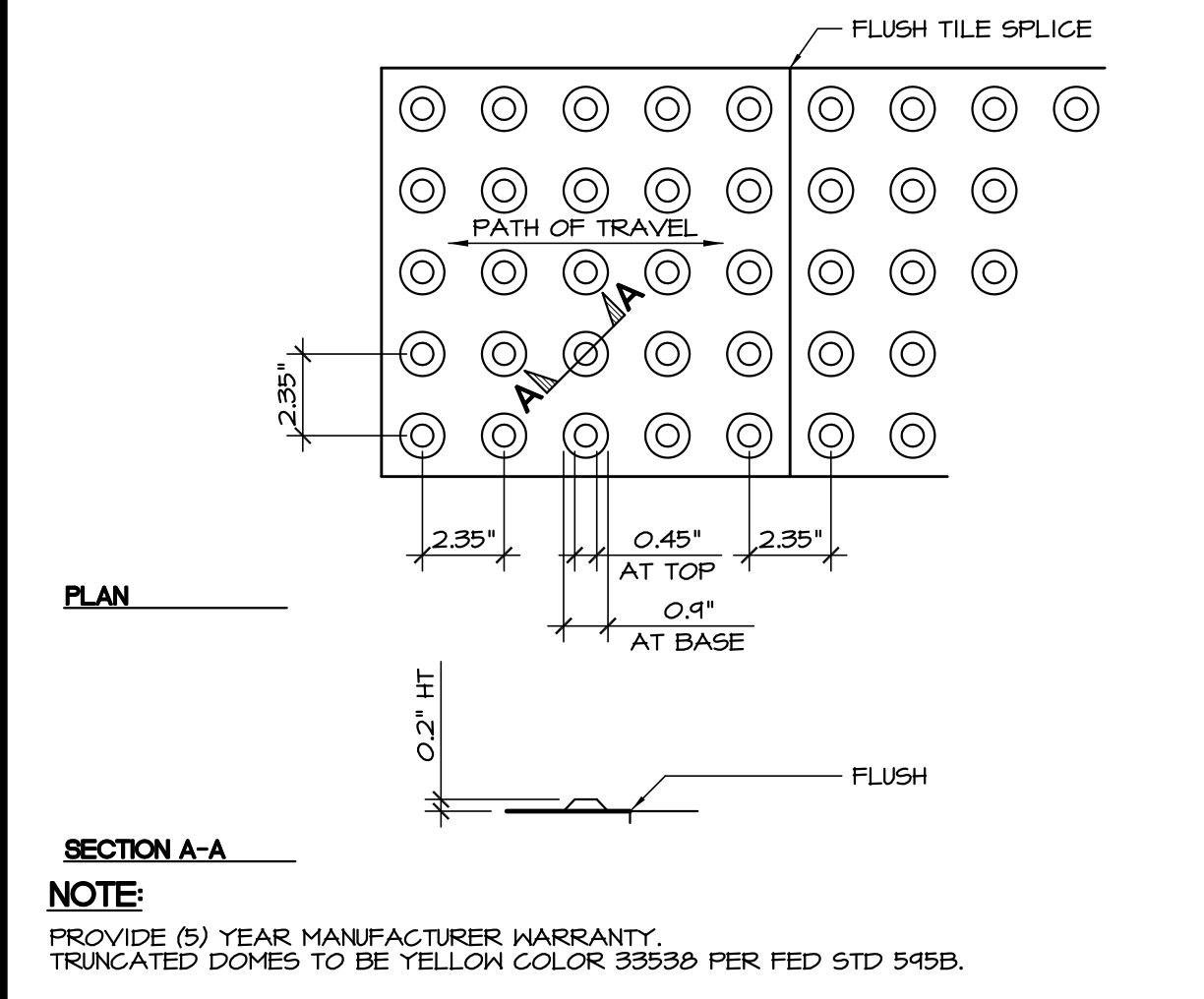
TOW AWAY SIGN SCALE: 1" = 1'-0" **3**



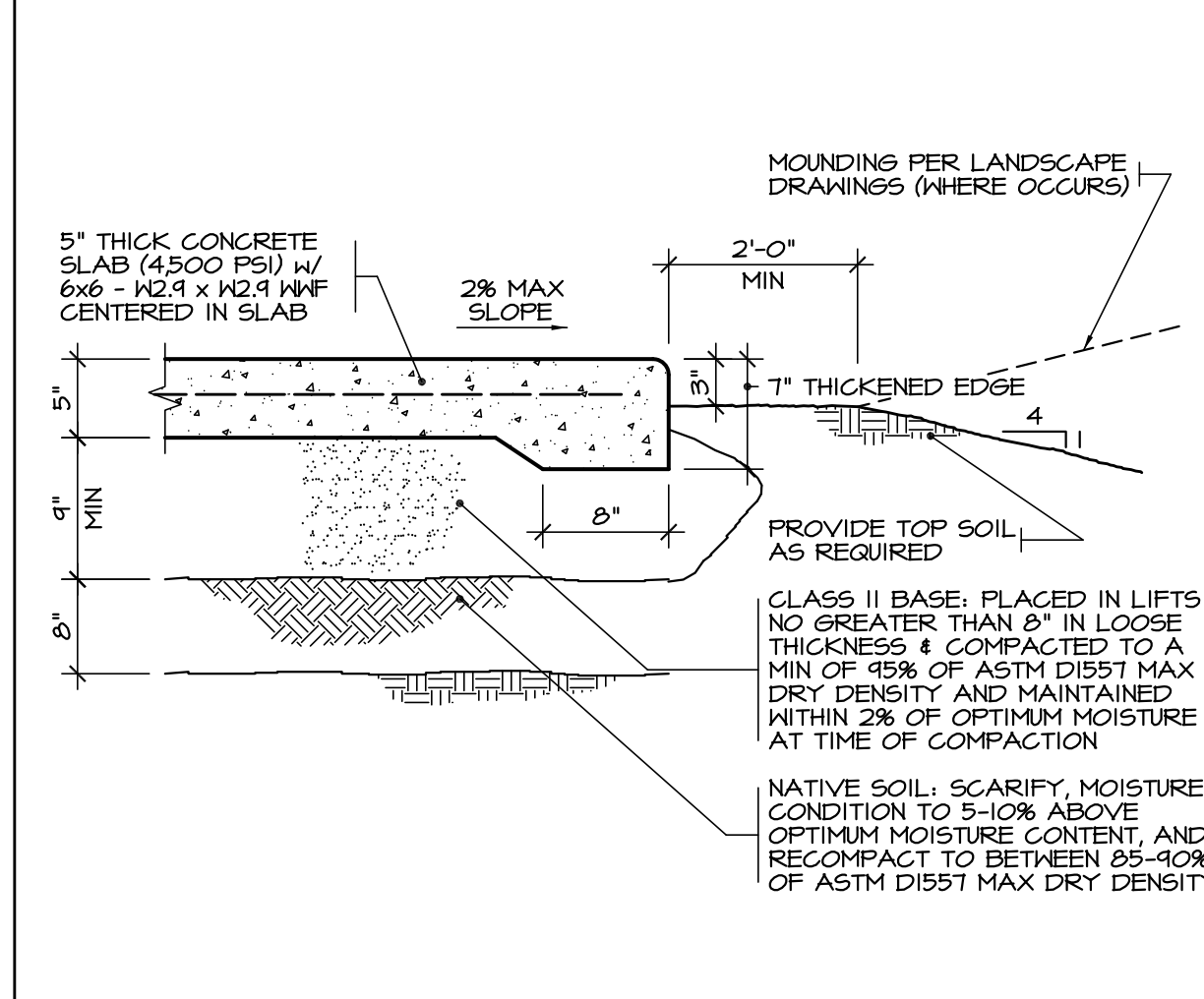
ACCESSIBLE LOADING ZONE SCALE: 1" = 1'-0" **4**



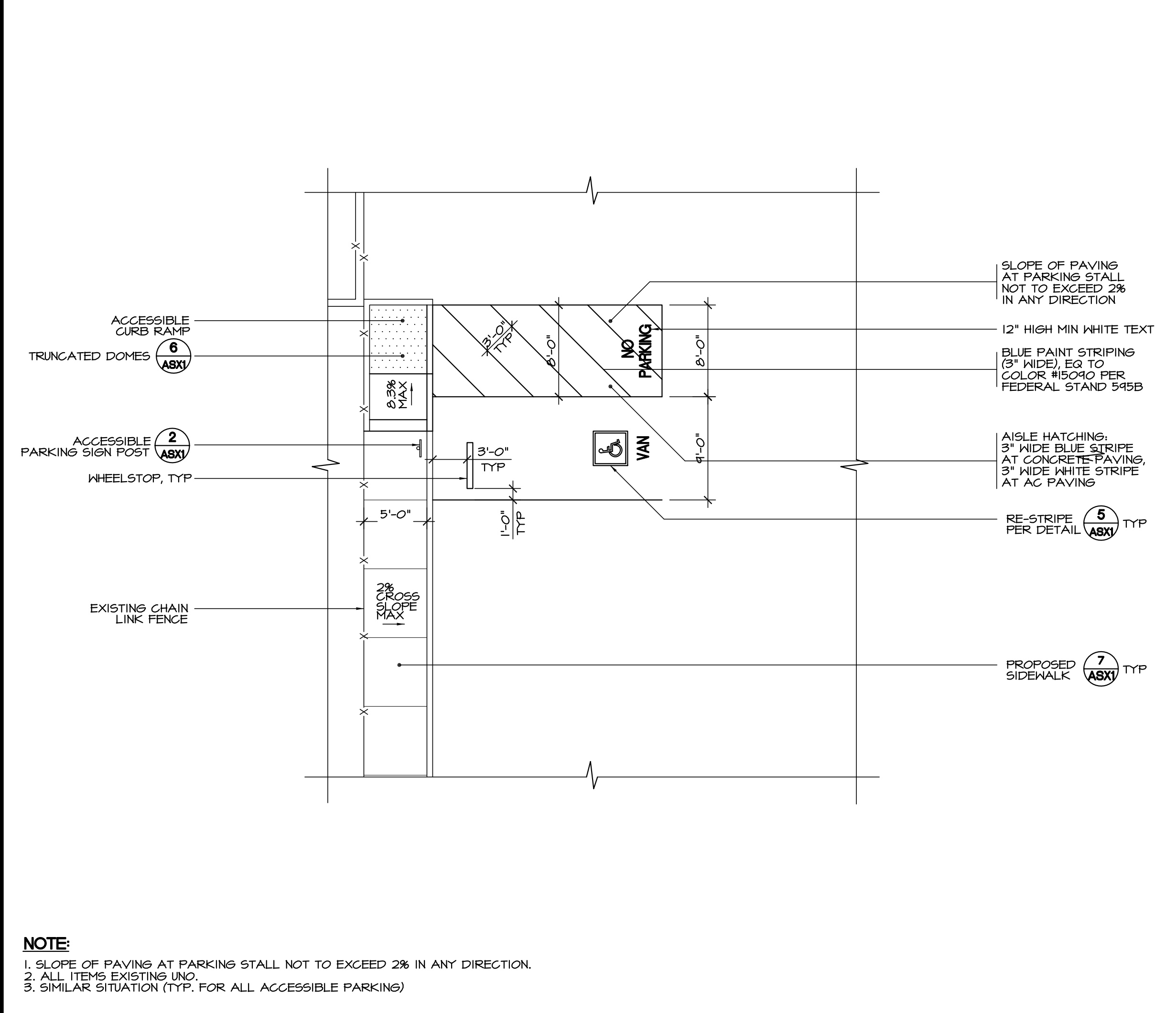
INTL SYMBOL OF ACCESSIBILITY SCALE: 3/4" = 1'-0" **5**



TRUNCATED DOMES SCALE: 1/4" = 1'-0" **6**



SITE CONCRETE SECTION SCALE: 1" = 1'-0" **7**



ACCESSIBLE PARKING DETAIL SCALE: 1/2" = 1'-0" **8**

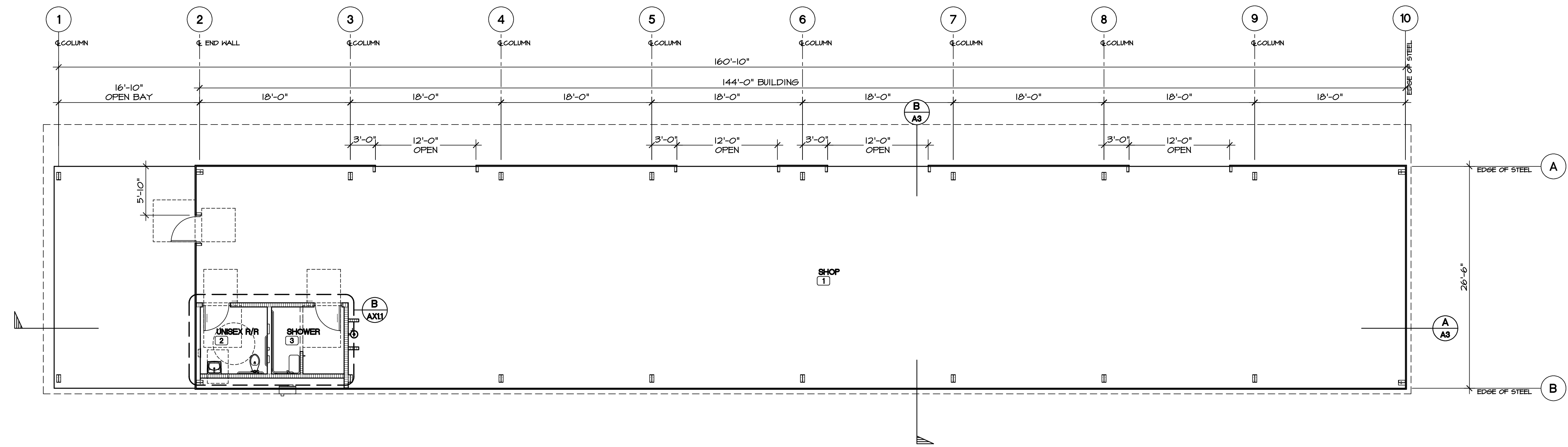


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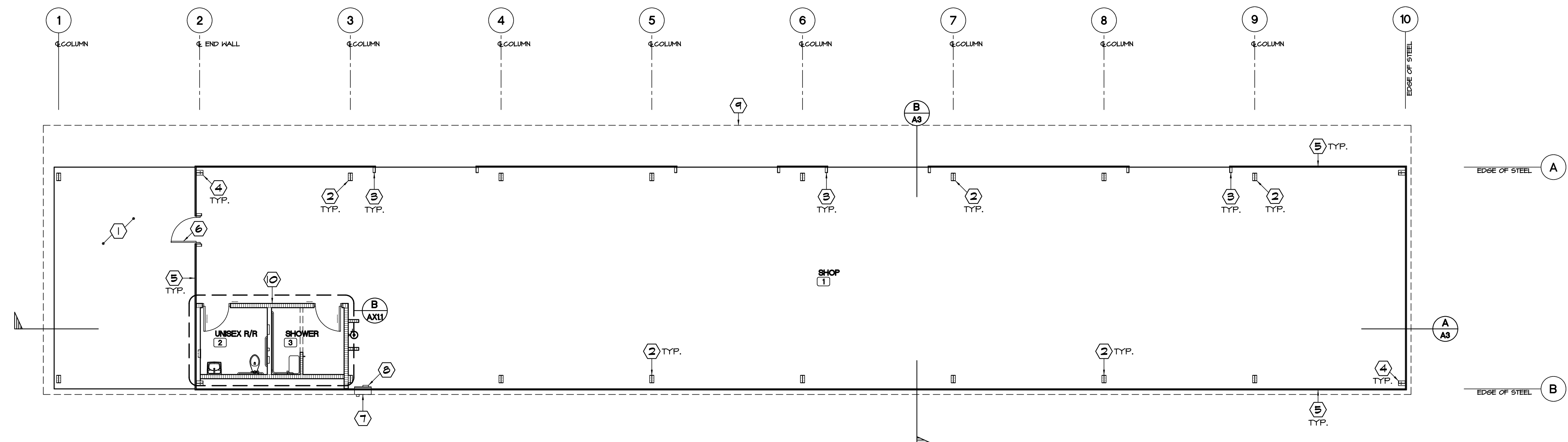
Project Title
IMPERIAL COUNTY PUBLIC WORKS
BRAMLEY YARD BUILDING REPLACEMENT
 Sheet Title
ACCESS COMPLIANCE DETAILS

Project Number	17-0100
Sheet Number	ASX1



DIMENSIONAL FLOOR PLAN

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



ARCHITECTURAL FLOOR PLAN

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

WALL TYPES

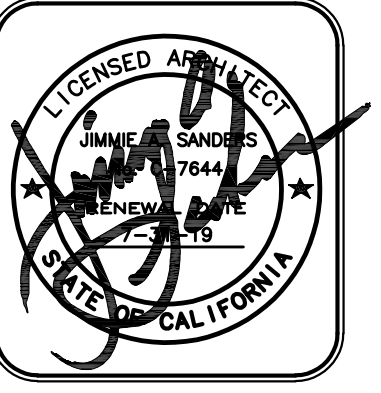
- 24 GAUGE METAL WALL PANEL BY BUILDING MANUFACTURER
- 2 x 6 WOOD STUD @ 24" O.C.

LEGEND:

- 30" x 48" CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
- 60" DIAMETER CLEAR FLOOR SPACE (2% MAX SLOPE IN ALL DIRECTIONS)
- 60" x 60" CLEAR FLOOR SPACE AT FULL SIDE OF EXTERIOR DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
- 60" x 54" CLEAR SPACE AT FULL SIDE OF INTERIOR DOOR (2% MAX SLOPE IN ALL DIRECTIONS)
- 48" x 48" CLEAR SPACE AT PUSH SIDE OF DOOR (2% MAX SLOPE IN ALL DIRECTIONS)

KEYNOTES:

- ① OPEN BAY AREA
- ② RIGID FRAME STRUCTURE - PRE-ENGINEERED METAL BUILDING
- ③ FRAMED OPENING TO SUPPORT A FUTURE 14'-0" MECHANICAL ROLL-UP DOOR
- ④ ENDWALL COLUMN - PRE-ENGINEERED METAL BUILDING
- ⑤ WALL PANEL - PRE-ENGINEERED METAL BUILDING
- ⑥ 3'-0"x7'-0" DOOR - PRE-ENGINEERED METAL BUILDING
- ⑦ PROPOSED NEW IID METER & MAIN DISCONNECT
- ⑧ SURFACE MOUNTED SWITCHBOARD - SEE ELECTRICAL DRAWINGS
- ⑨ ROOF OVERHANG
- ⑩ USE 2 x 12 JOISTS @ 18" O.C. FOR ROOF FRAMING
- ⑪ ----

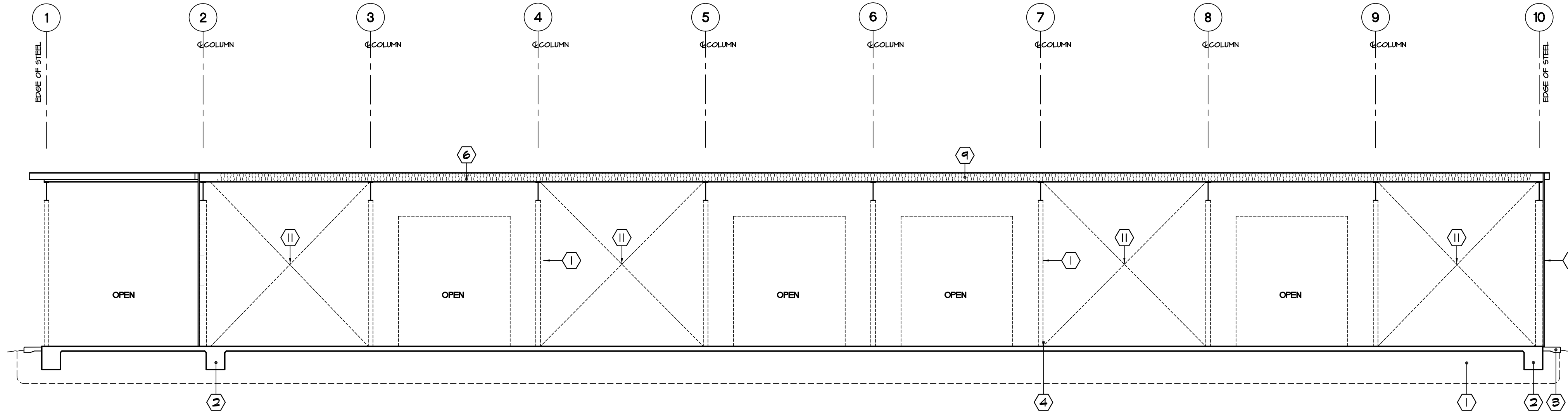


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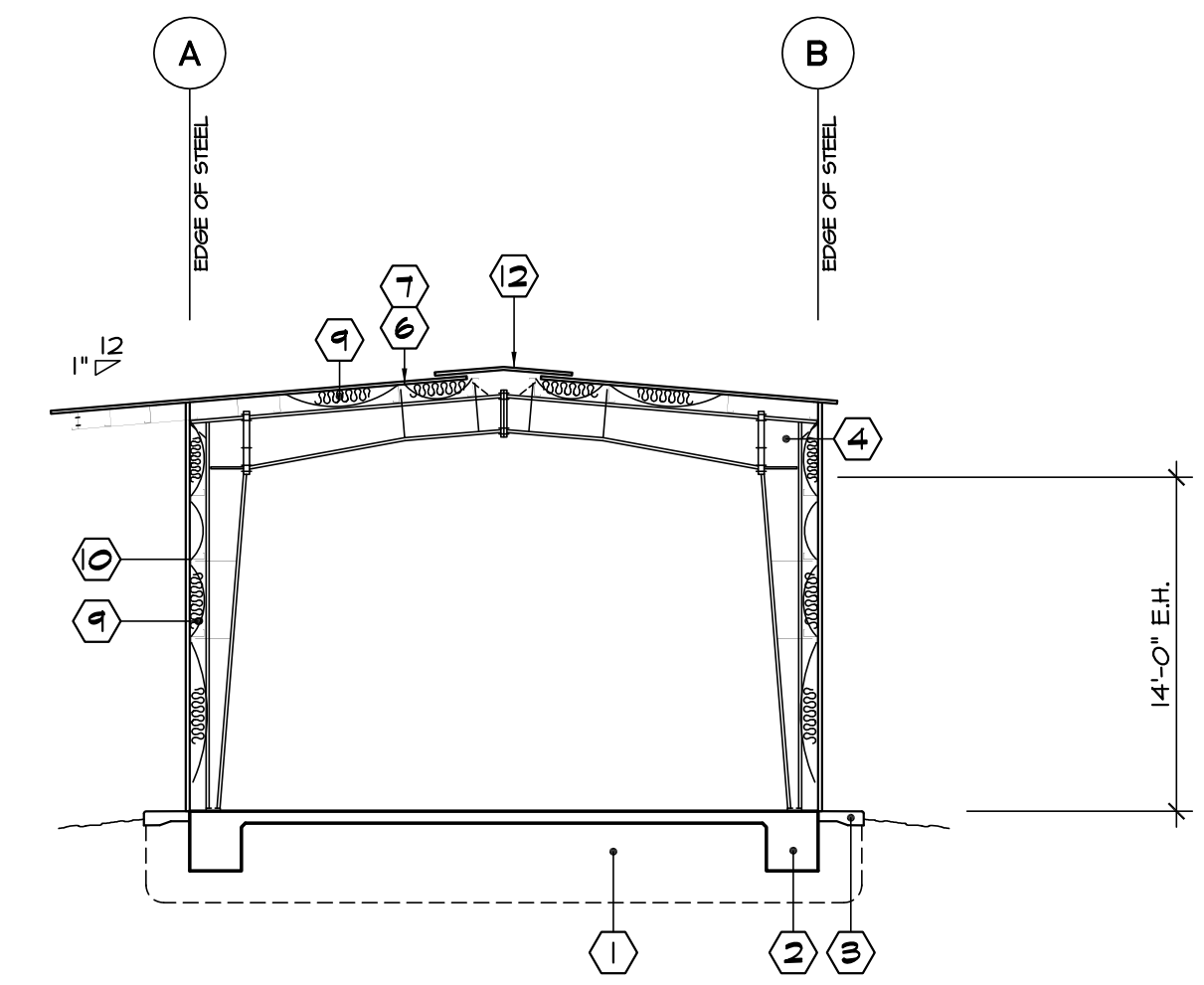
Project Title: IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT
 Sheet Title: FLOOR PLAN ARCHITECTURAL AND DIMENSIONAL

Project Number: 17-0100
 Sheet Number: A12



SECTION

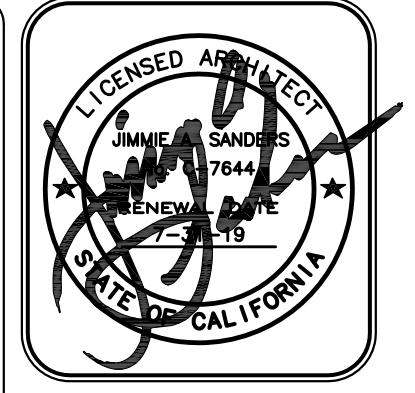
SCALE: 1/8"=1'-0" A



SECTION

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

- KEYNOTES:**
- ① BUILDING PAD - SEE STRUCTURAL AND PRE ENGINEERED BUILDING DRAWINGS
 - ② CONCRETE FOUNDATION - SEE STRUCTURAL DRAWINGS
 - ③ SITE CONCRETE - SEE ARCHITECTURAL SITE DRAWINGS
 - ④ STEEL RIGID FRAME - SEE BUILDING MANUFACTURER DRAWINGS
 - ⑤ METAL PANEL BY METAL BUILDING MANUFACTURER
 - ⑥ ROOF FRAMING - SEE BUILDING MANUFACTURER DRAWINGS
 - ⑦ METAL ROOF PANELS - SEE BUILDING MANUFACTURER DRAWINGS
 - ⑧ NOT USED
 - ⑨ ROOF/WALL INSULATION PER PLAN
 - ⑩ GIRT LINE PROJECTION BEYOND, SEE BUILDING MANUFACTURER DRAWINGS
 - ⑪ X-BRACED BAY, SEE BUILDING MANUFACTURER DRAWINGS
 - ⑫ RIDGE VENT, SEE BUILDING MANUFACTURER DRAWINGS

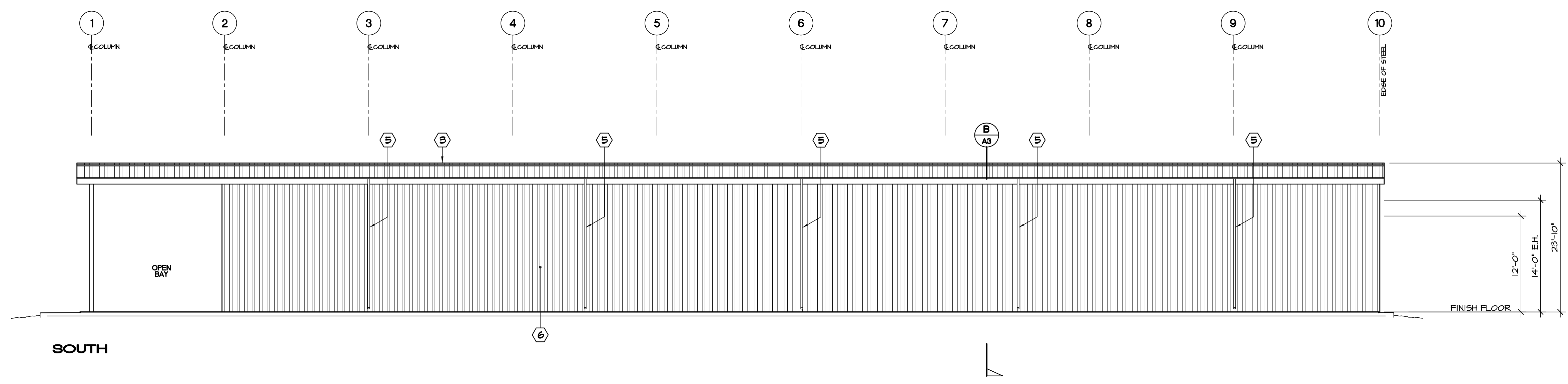
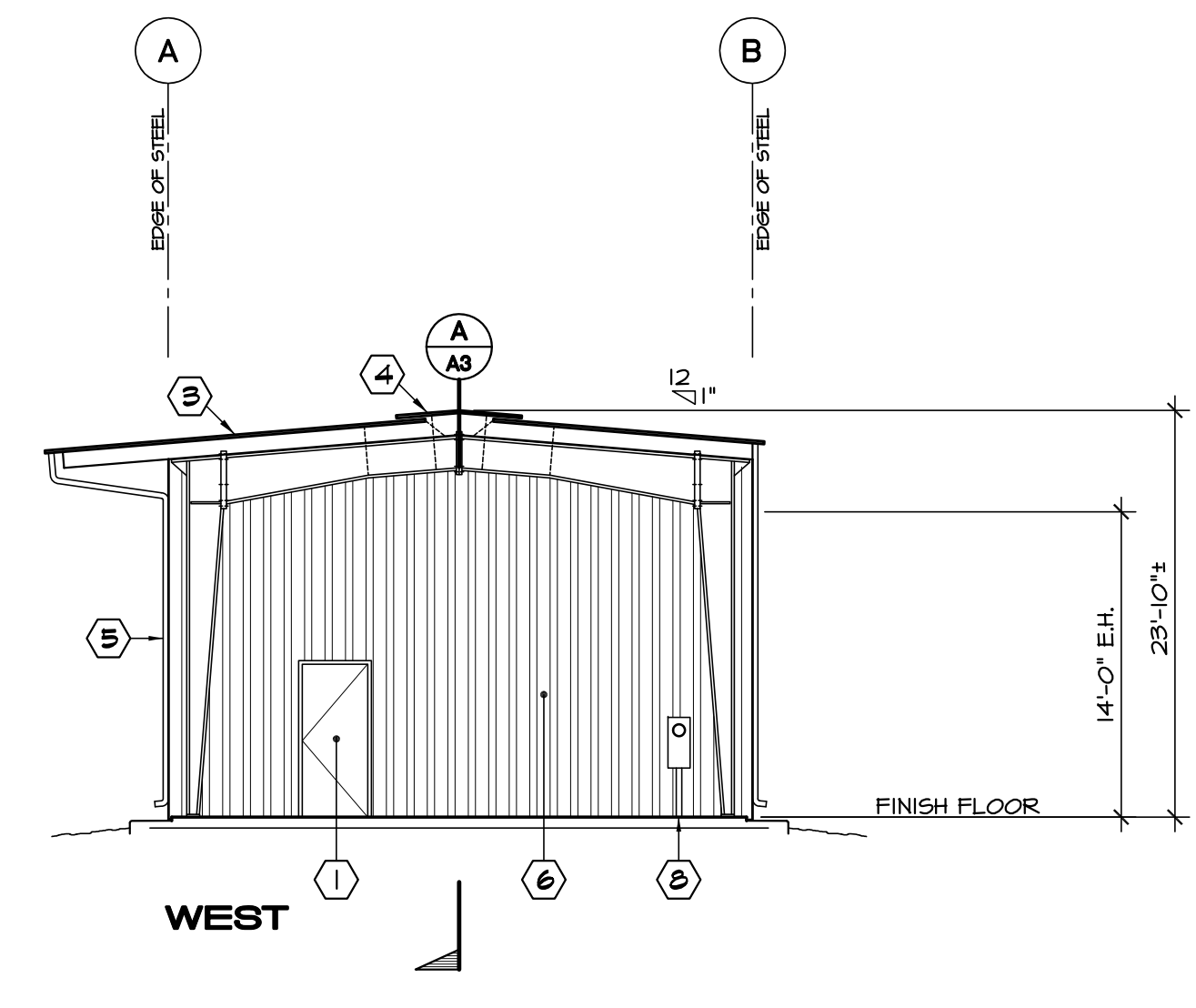
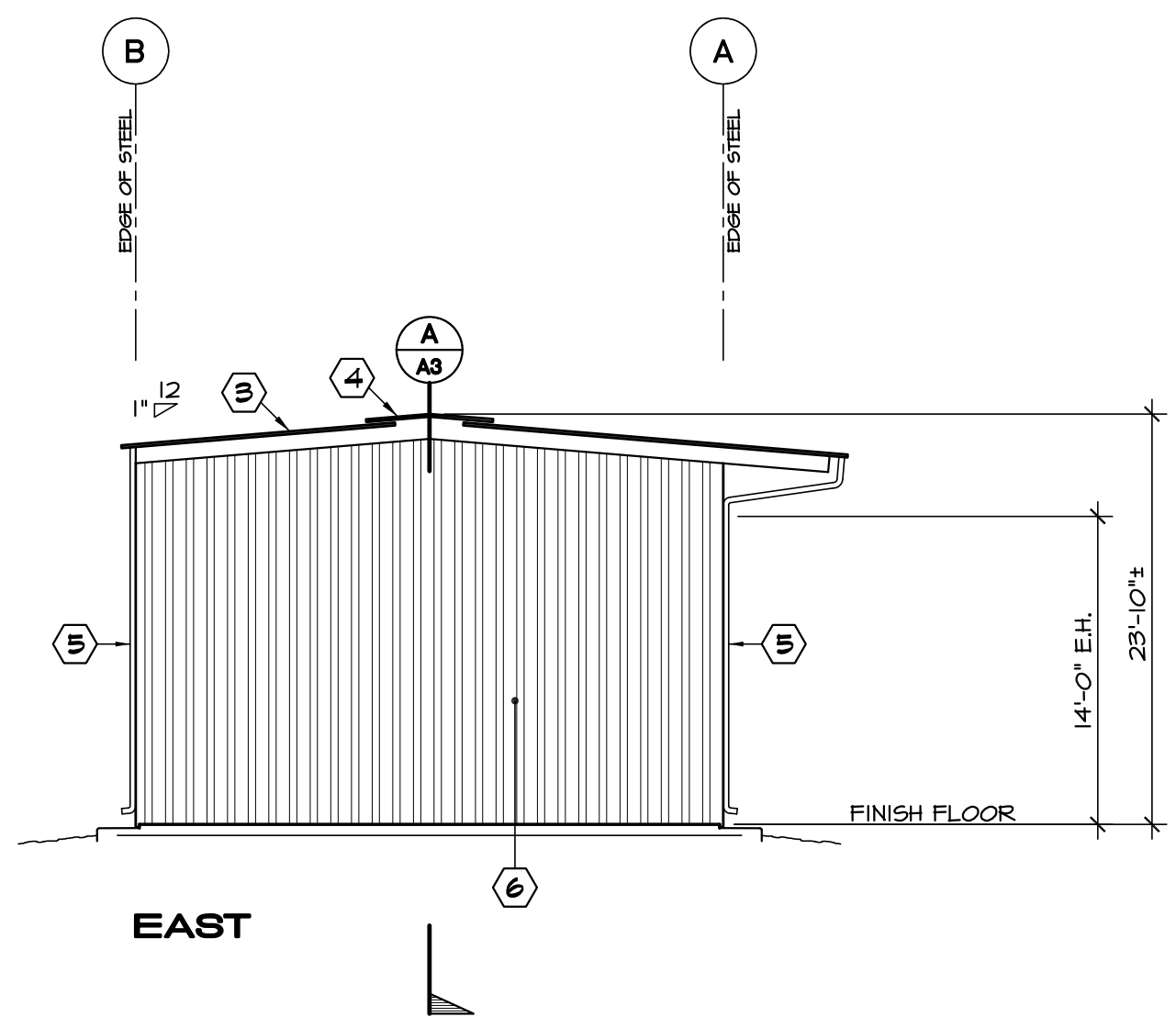
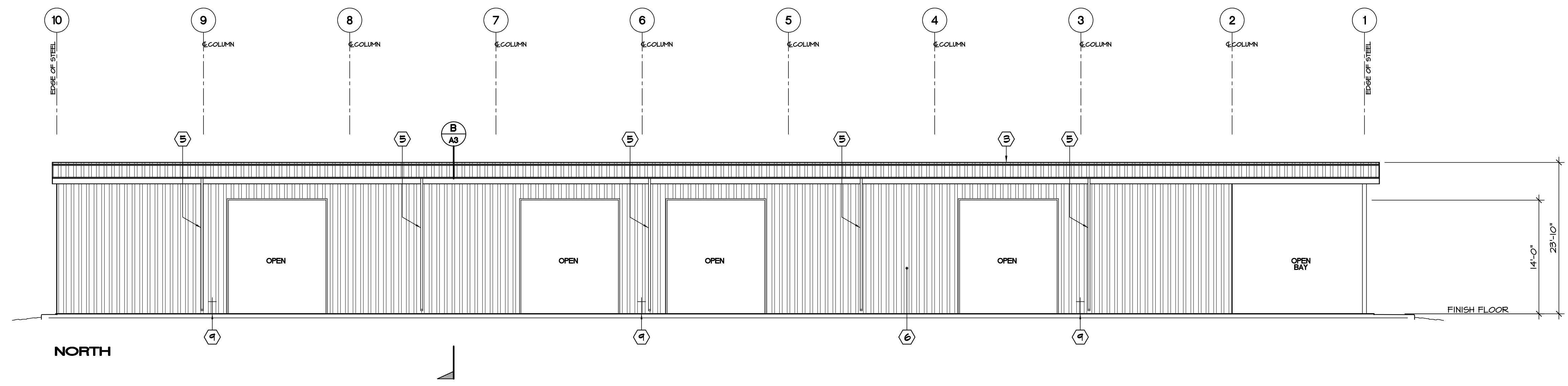


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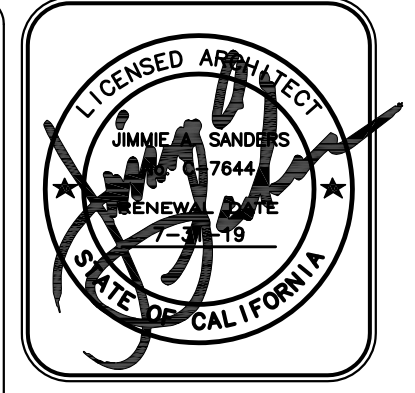
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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**
 Sheet Title
ARCHITECTURAL SECTIONS

Project Number
17-0100
 Sheet Number
A2



- KEYNOTES:**
- ① DOOR / WINDOW PER PLAN
 - ② SIGNAGE PER PLAN
 - ③ METAL ROOF BY BUILDING MANUFACTURER
 - ④ RIDGE VENT BY BUILDING MANUFACTURER
 - ⑤ RAIN GUTTER / DOWNSPOUT BY BUILDING MANUFACTURER
 - ⑥ METAL PANEL BY METAL BUILDING MANUFACTURER
 - ⑦ X-BRACE BY METAL BUILDING MANUFACTURER (BEYOND)
 - ⑧ PROPOSED NEW IID METER & MAIN DISCONNECT
 - ⑨ HOSE BIB - SEE PLUMBING PLANS



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**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
EXTERIOR ELEVATIONS

Project Number
 17-0100

Sheet Number
A3

KEYNOTES:

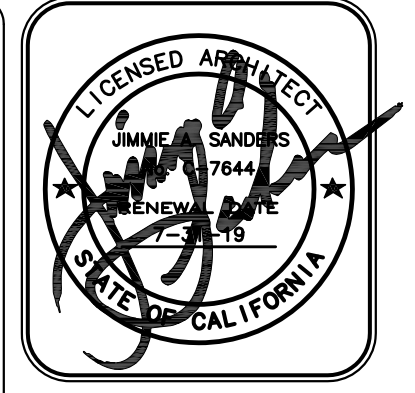
① TRANSITION FROM CONCRETE TO VCT OR TILE L M
AX31 AX31

LEGEND:

CERAMIC TILE
 CONCRETE - SMOOTH FLOAT FINISH

NOTES:

1. FOR SIGN TYPES SEE A
AX31
2. GLAZING MOUNTED SIGNS TO HAVE MATCHING BLANK SIGN ON OPPOSING SIDE AT LOCATIONS WITHOUT SIGN SPECIFIED ON BOTH SIDES.
3. GLAZING MOUNTED SIGNS TO HAVE MATCHING BLANK SIGN ON OPPOSING SIDE AT LOCATIONS WITHOUT SIGN SPECIFIED ON BOTH SIDES.
4. ASSISTIVE LISTENING DEVICE SYSTEMS SHALL BE INSTALLED IN ASSEMBLY AREAS FOR PEOPLE WITH HEARING IMPAIRMENTS, PER SECTION IIB-214

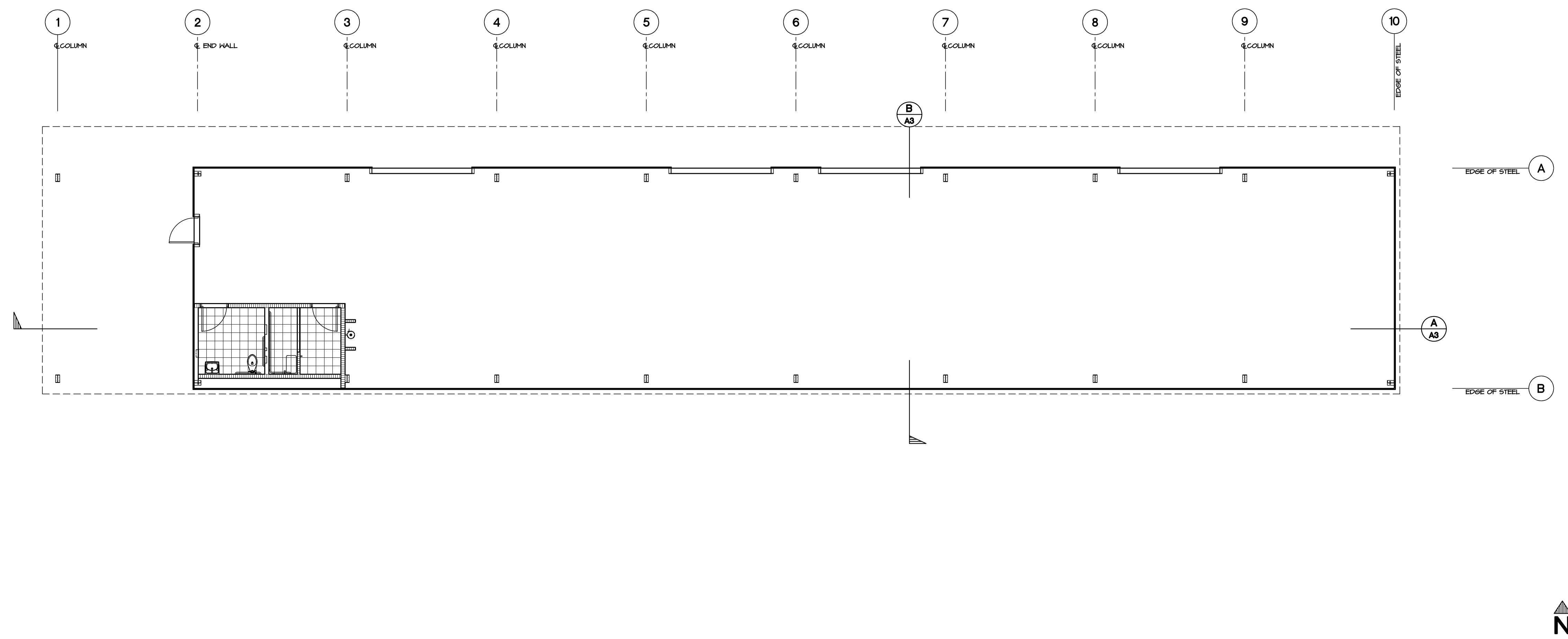


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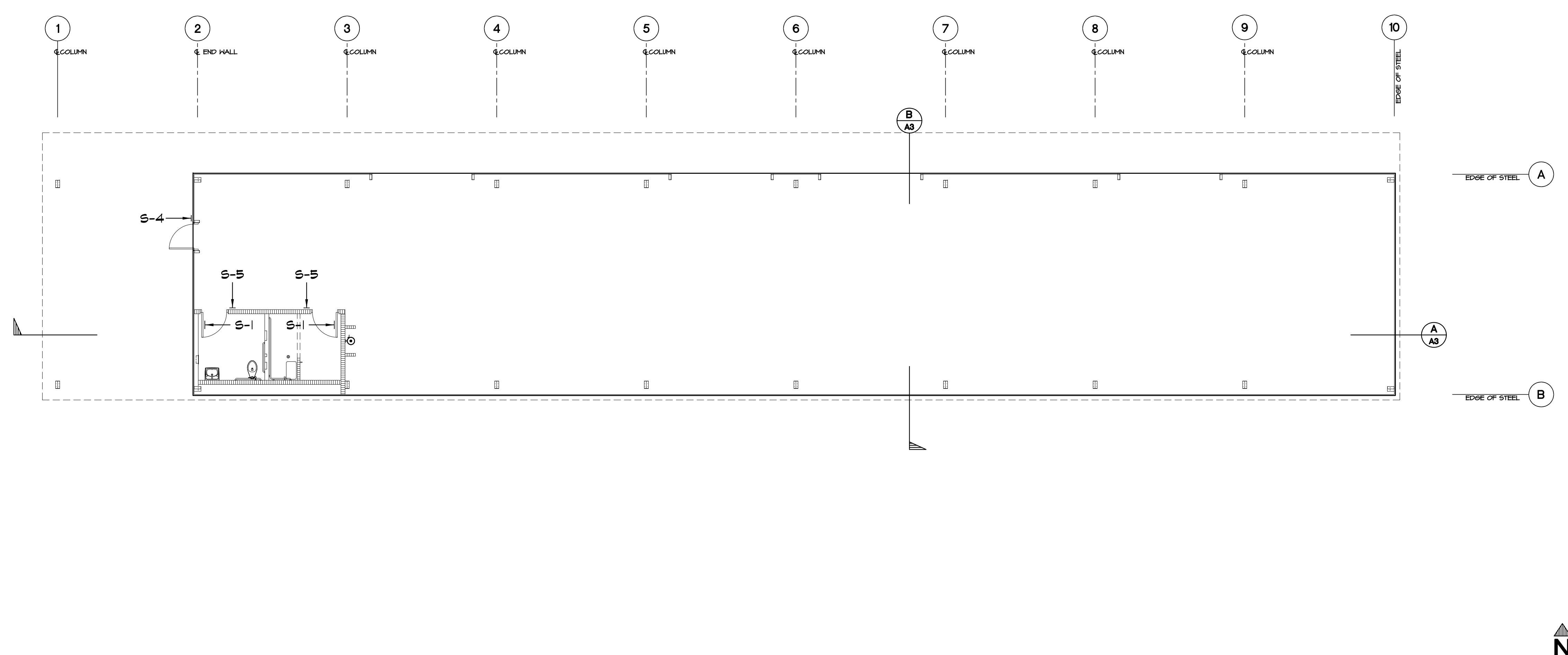
Document Date 04-06-18	Date Last Revised
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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**
 Sheet Title
FLOORING PLAN AND SIGNAGE PLAN

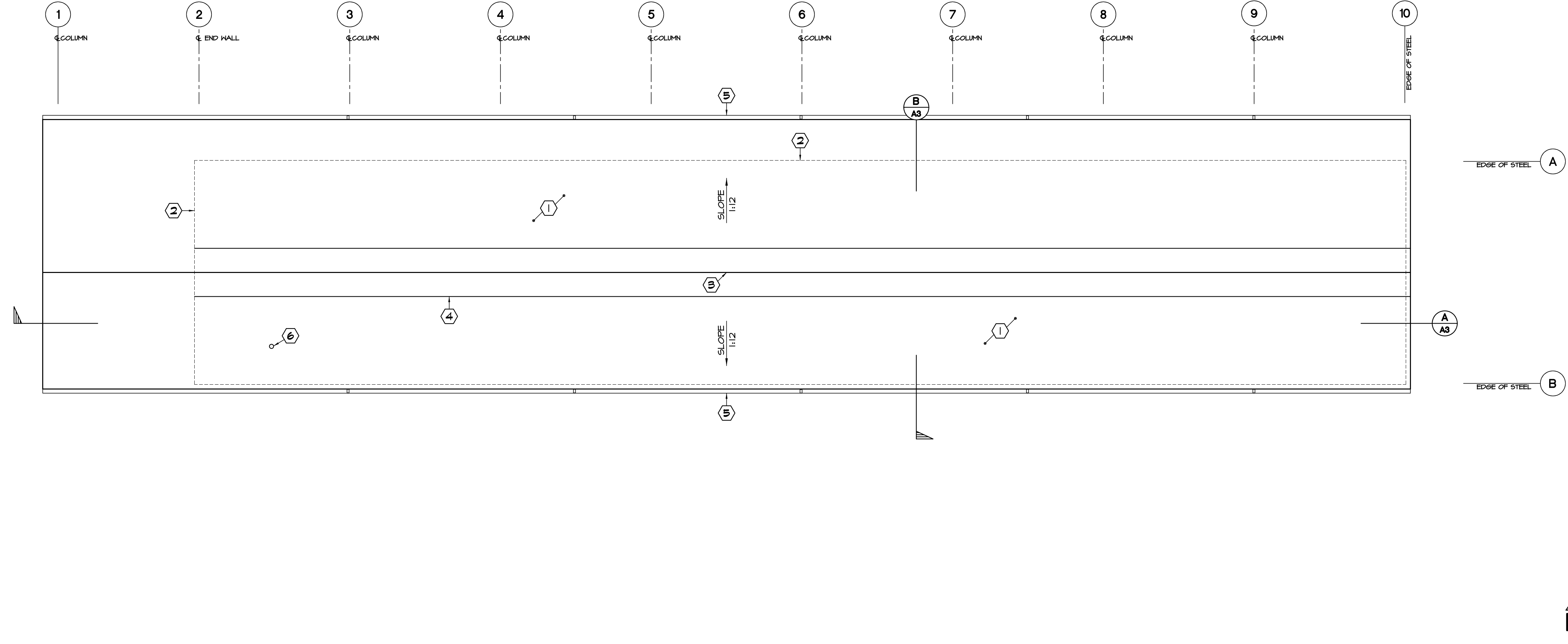
Project Number 17-0100	Sheet Number A4
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FLOORING PLAN SCALE: 1/8"=1'-0" A

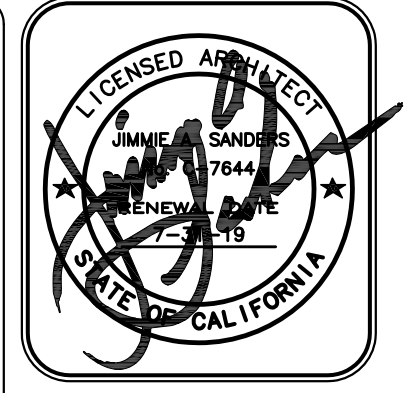


SIGNAGE PLAN SCALE: 1/8"=1'-0" B



- KEYNOTES:**
- ① RIGID METAL ROOF
 - ② LINE OF EXTERIOR WALL BELOW ROOF
 - ③ RIDGE / HIP LINE
 - ④ ROOF VENT
 - ⑤ RAIN GUTTER / DOWNSPOUT BY BUILDING MANUFACTURER
 - ⑥ 2" VENT THROUGH ROOF-MAINTAIN MIN. 10'-0" CLEAR TO HVAC UNIT OSA INTAKE

- NOTES:**
1. ALL VENTS (ROOF, FOUNDATION, COMBUSTION-AIR, ETC.) SHALL BE PROTECTED BY AND 1/8-INCH NONCOMBUSTIBLE, CORROSION-RESISTANT MESH. (COUNTY BUILDING CODE 92.1.106A.1)
 2. VENTS PROHIBITED IN EAVES, EAVE OVERHANGS, SOFFITS AND CORNICES. (COUNTY BUILDING CODE 92.1.106A.2)
 3. PAPER-FACED INSULATION PROHIBITED IN ATTICS OR OTHER VENTILATED SPACES. (COUNTY BUILDING CODE 92.1.111A.1)



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ROOF PLAN SCALE: 1/8"=1'-0" A

Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
ROOF PLAN

Project Number
 17-0100

Sheet Number
A5

ROOM FINISH SCHEDULE

RM. NO.	NAME	FLOOR	BASE		WALLS				WAINSCOT		CEILING		CABINETS		REMARKS
			HT.	MATERIAL	NORTH	EAST	SOUTH	WEST	HT.	MATERIAL	HT.	MATERIAL	HT.	MATERIAL	
1	SHOP	CONCRETE/SMOOTH FINISH			METAL PANEL	METAL PANEL	METAL PANEL	METAL PANEL	N/A	N/A	OPEN	METAL PANEL/INSULATION	N/A	N/A	
2	UNISEX RESTROOM	CERAMIC TILE	6"	COVE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	N/A	N/A	8'-0"	GYP BD, PAINT	N/A	N/A	
3	SHOWER	CERAMIC TILE	6"	COVE BASE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	CERAMIC TILE	N/A	N/A	8'-0"	GYP BD, PAINT	N/A	N/A	

DOOR SCHEDULE

NO.	TYPE	DOOR				FRAME	HARDWARE	HEADING	FIRE RATING	GLAZING		REMARKS
		SIZE	THICKNESS	CORE	MATERIAL					TYPE	LOW-E / TINT	
1	S-1	3'-0" x 7'-0"	BY MANUF.	INSULATED	STEEL	STEEL	N/A	NR	N/A	N/A	BY BUILDING MANUFACTURER	
2	S-2	3'-0" x 7'-0"	BY MANUF.	INSULATED	STEEL	STEEL	I	NR	N/A	N/A	BY BUILDING MANUFACTURER	

KEYNOTES:

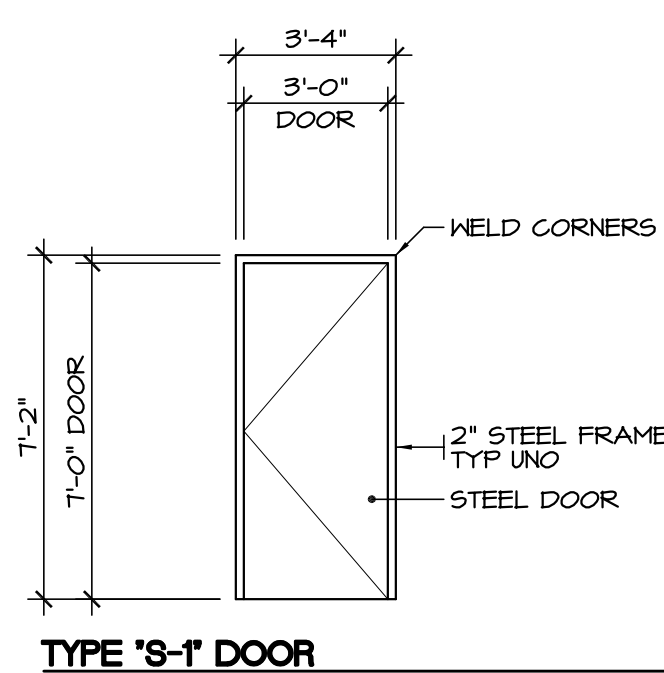
- 1 42" MIN GRAB BAR
- 2 36" MIN GRAB BAR
- 3 RECESSED TOWEL DISPENSER / WASTE RECEPTACLE, SEE (J)
- 4 ACCESSIBLE TOILET
- 5 "L" SHAPED GRAB BAR
- 6 ACCESSIBLE LAVATORY
- 7 ACCESSIBLE SHOWER SEAT
- 8 RECESSED TISSUE DISPENSER
- 9 RECESSED TOILET SEAT COVER DISPENSER
- 10 RECESSED FEMININE NAPKIN DISPOSAL
- 11 MIRROR - SEE INTERIOR ELEVATIONS
- 12 30" x 48" CLEAR FLOOR SPACE
- 13 60" DIAMETER CLEAR FLOOR SPACE
- 14 60" x 54" CLEAR FLOOR SPACE
- 15 FLOOR DRAIN, 2% MAX SLOPE TO DRAIN-SEE PLUMBING DRAWINGS

NOTES:

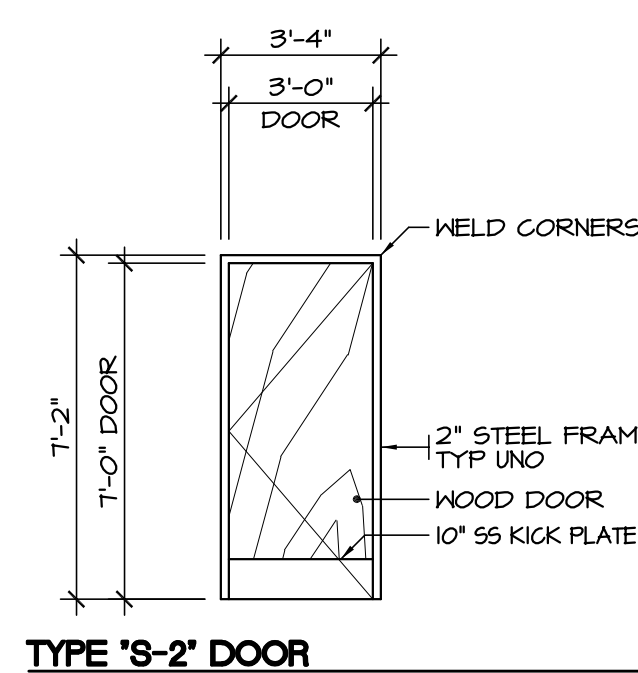
- 1. SEE (B) FOR ALL FIXTURE MOUNTING HEIGHTS.
- 2. FOR WALL TYPES AND FURRING SEE ARCHITECTURAL FLOOR PLANS.
- 3. DIMENSION WITH * INDICATES CLEAR TO FACE OF FINISH.

DOOR SCHEDULE NOTES:

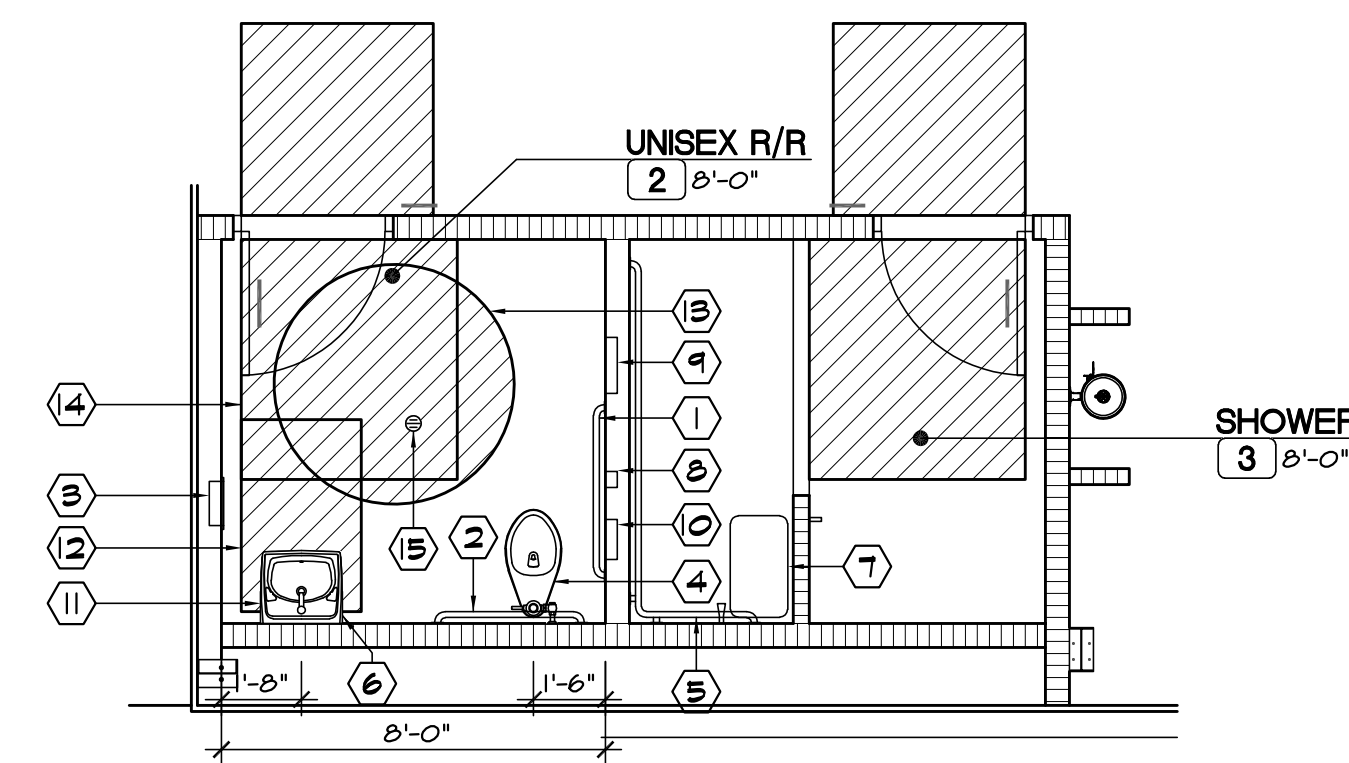
- 1. SEE (A) FOR SIGNAGE.
- 2. ALL DOOR THRESHOLD SHALL COMPLY W/ (L) (M)
- 3. FOR LIGHTED EXIT SIGNS SEE ELECTRICAL DRAWINGS.
- 4. SIGNAGE AT EXIT DOORS MUST READ "EXIT" AND "EXIT ROUTE" AT DOORS LEADING TO EXIT DOORS.
- 5. EACH LIGHT OF SAFETY GLAZING MATERIAL SHALL BE IDENTIFIED BY A PERMANENT LABEL THAT SPECIFIES THE LABELER, WHETHER THE MANUFACTURE OR INSTALLER, AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION AND SHALL SPECIFY THAT THE LABEL SHALL NOT BE REMOVED. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BLD'G AFTER INSTALLATION.
- 6. MINIMUM FRAME LAP AT GLAZING IS 1/4" AND MINIMUM GLASS EDGE CLEARANCE IS 1/8"
- 7. EACH LIGHT OF SAFETY GLAZING MATERIAL SHALL BE IDENTIFIED BY A PERMANENT LABEL THAT SPECIFIES THE LABELER, WHETHER THE MANUFACTURE OR INSTALLER, AND STATE THAT SAFETY GLAZING MATERIAL HAS BEEN UTILIZED IN SUCH INSTALLATION AND SHALL SPECIFY THAT THE LABEL SHALL NOT BE REMOVED. THE IDENTIFICATION SHALL BE ETCHED OR CERAMIC FIRED ON THE GLASS AND READABLE FROM THE INSIDE OF THE BLD'G AFTER INSTALLATION.
- 8. GLAZING AT EXTERIOR DOOR SHALL BE MOUNTED ON EXTERIOR SIDE OF JAMB
- 9. MAXIMUM EFFORT TO OPERATE DOOR SHALL NOT EXCEED 5LBS WITH SUCH FULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. WHEN FIRE DOORS ARE UTILIZED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO NOT EXCEED 15 LBS, SECTION IIB-404.2.4
- 10. ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE W/O ANY SPECIAL KNOWLEDGE, EFFORT OR TOOLS
- 11. PROVIDE A SIGN ON R NEAR THE EXIT DOOR, READING THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED. THIS SIGNAGE IS ONLY ALLOWED AT MAIN EXIT, SECTION 1008.1.4.3
- 12. HAND ACTIVATED DOOR OPENING HARDWARE MEETS THE FOLLOWING REQUIREMENTS, PER SECTION IIB-404.2.1: 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
- 13. LOWER 10" OF ALL DOORS SHALL COMPLY WITH SECTION IIB-404.2.10 AS FOLLOWS: A) TO BE SMOOTH AND UNINTERRUPTED, TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST, WITHOUT A TRAP OR HAZARDOUS CONDITION B) NARROW FRAME DOORS MAY USE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF THE DOOR.
- 14. ANY HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES MUST BE A MINIMUM 34" AND MAXIMUM 44" ABOVE FINISHED FLOOR OR GROUND, SECTION IIB-304.4, IIB-404.2.7.



TYPE 'S-1' DOOR



TYPE 'S-2' DOOR

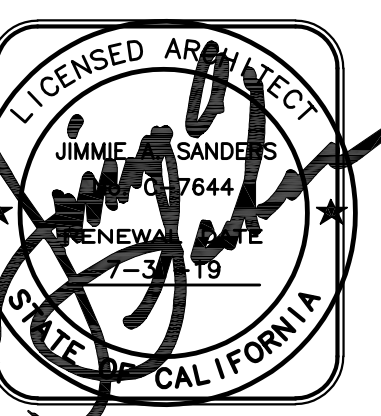


ENLARGED FLOOR PLAN

DOOR TYPES

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

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



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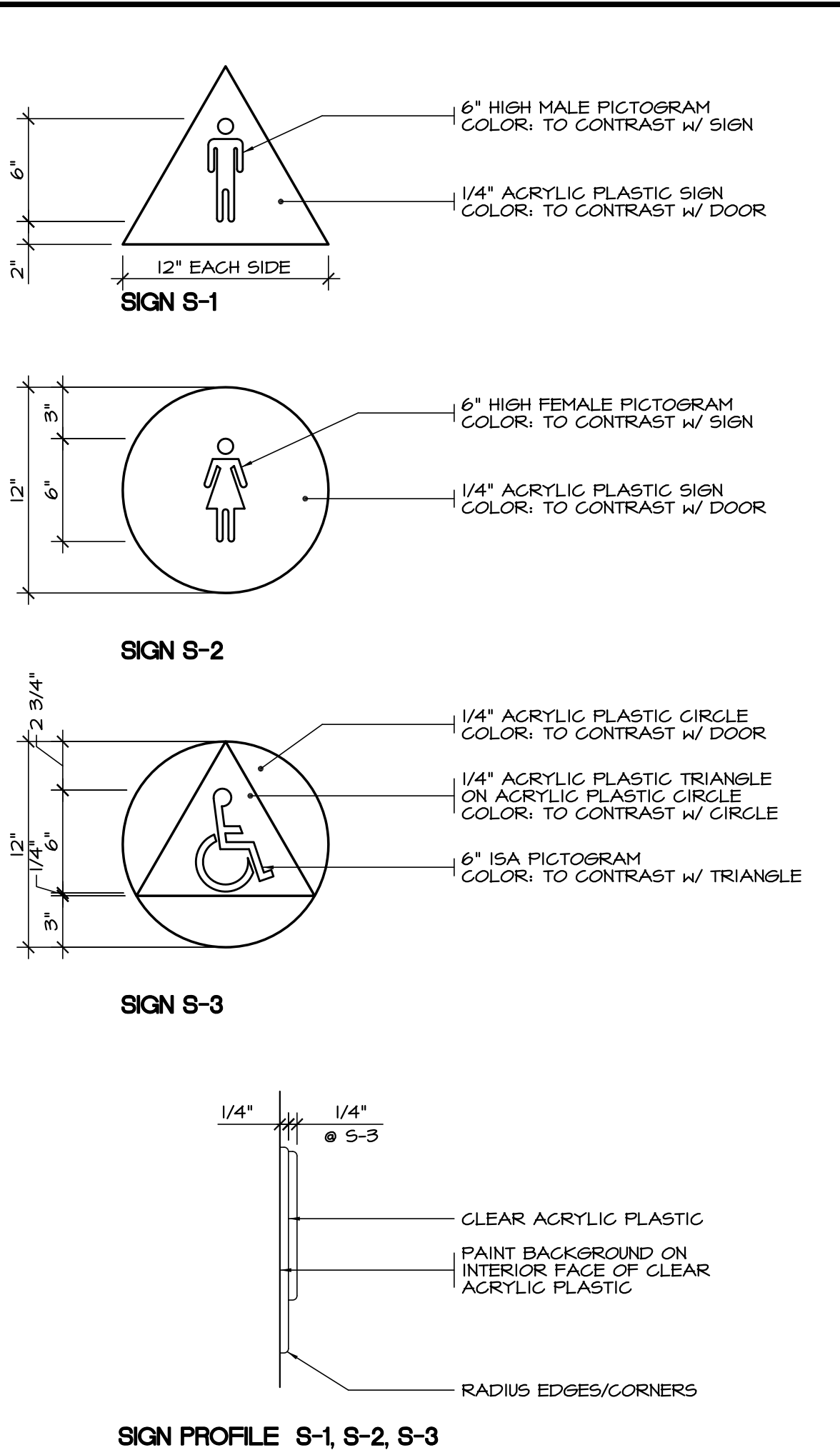
Document Date	04-06-18
Date Last Revised	-

Project Title
**IMPERIAL VALLEY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
SCHEDULES, DOOR TYPES, ENLARGED FLOOR PLAN

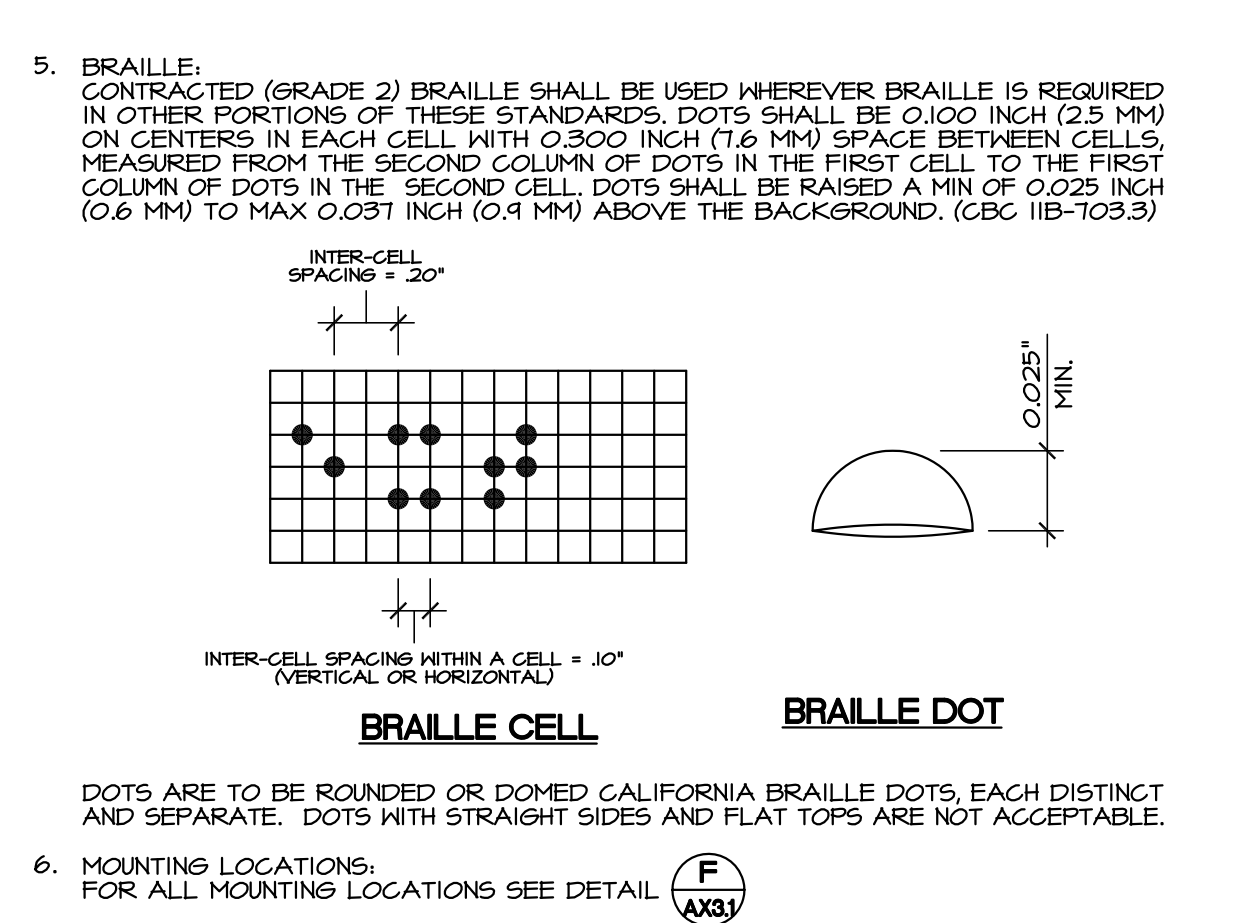
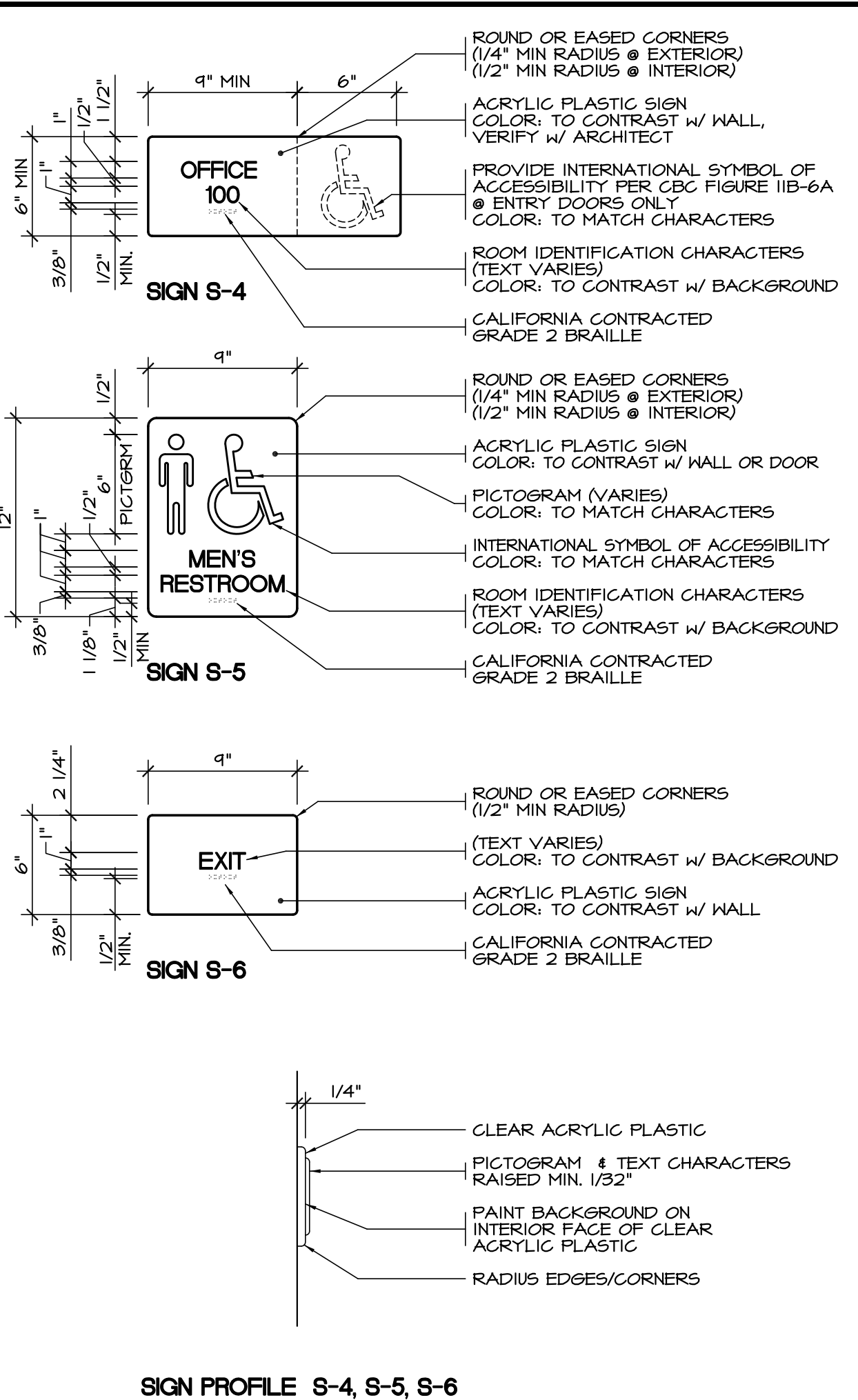
Project Number
17-0100

Sheet Number
AX11



NOTES:

- CHARACTER TYPE:** CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.794 MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CONTRACTED (GRADE 2) BRAILLE (SEE NOTE 5 BELOW). (CBC IIB-103.2)
- CHARACTER SIZE:** RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9 MM) AND A MAXIMUM OF 2" (51 MM) HIGH. (CBC IIB-103.2.5)
- FINISH AND CONTRAST:** CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH. (CBC IIB-103.3.1)
- PROPORTIONS:** CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER 'O' IS 80% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER 'I'. (CBC IIB-103.2.4)
STROKE THICKNESS OF THE UPPERCASE LETTER 'I' SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. (CBC IIB-103.2.6)

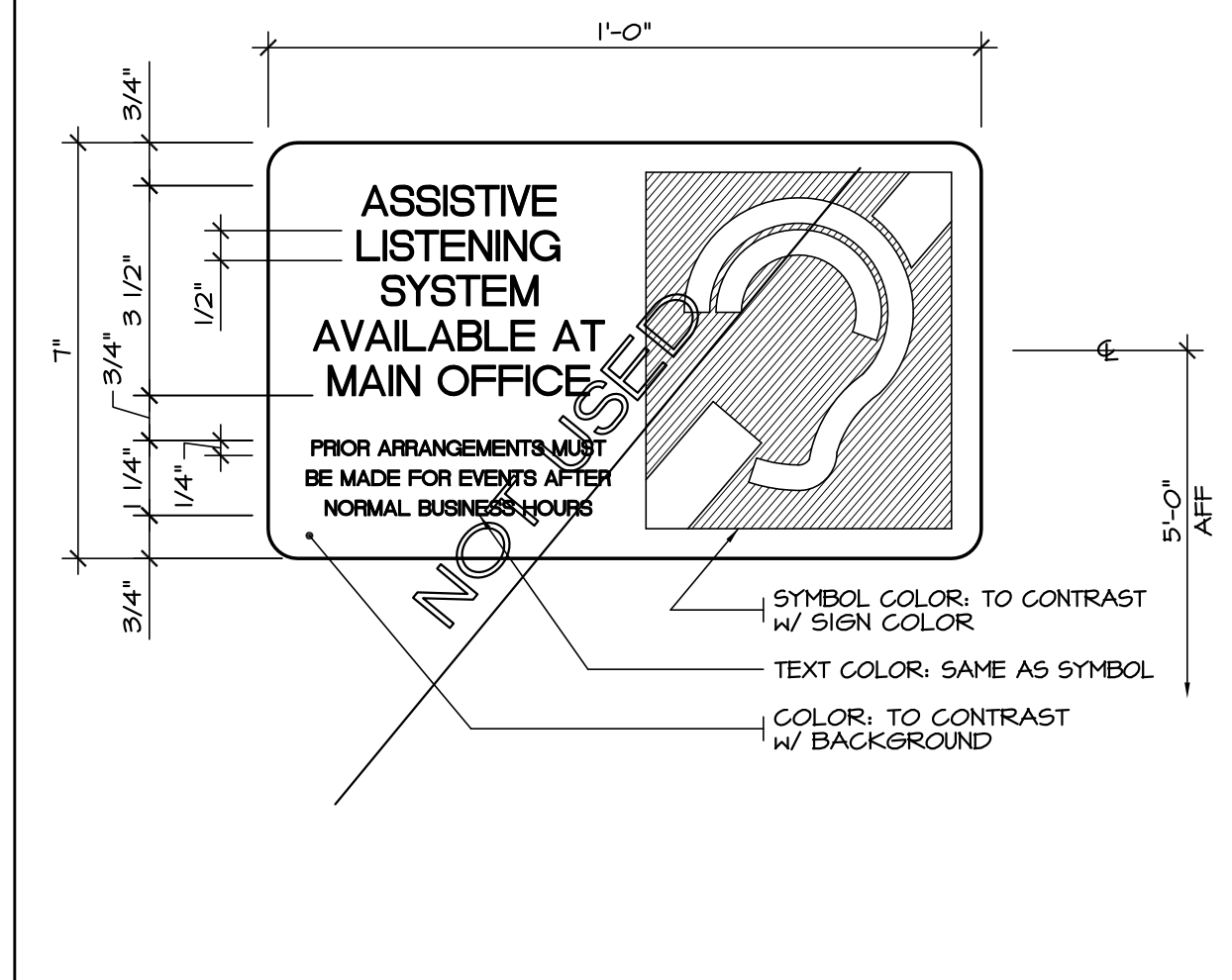
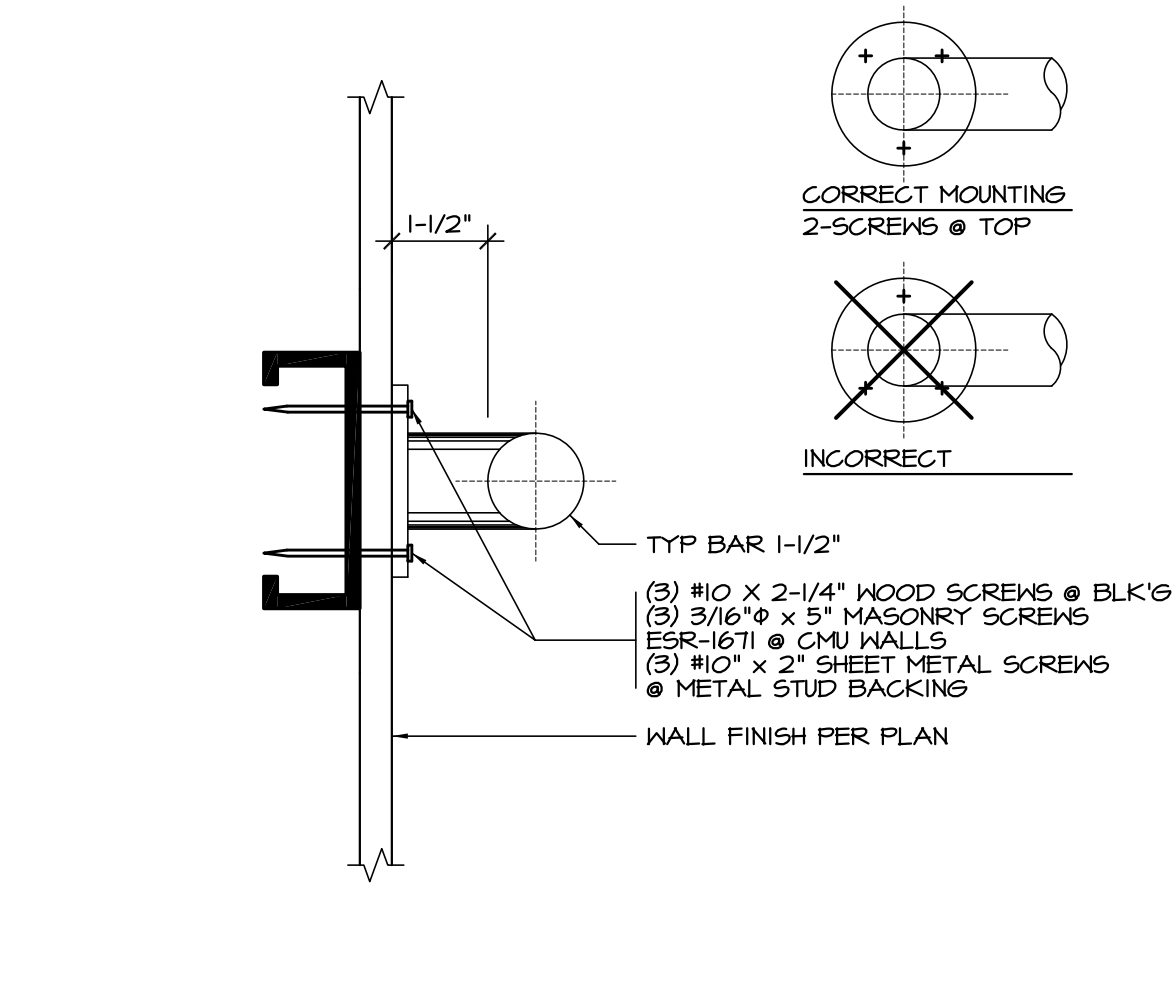


KEYNOTES:

- GRAB BAR (E) (AX31)
- SOAP DISPENSER (J) (AX31)
- RECESSED TISSUE DISPENSER (CONTRACTOR TO PROVIDE RECESS) 3" MAX PROJECTION FROM WALL (J) (AX31)
- INSULATE TRAP AND HOT WATER PIPING, NO SHARP OR ABRASIVE EDGES
- HANDLE ON WIDE SIDE OF TOILET
- 17"-19" AT ADULT TOILET SEAT
- 33" AT ADULT GRAB BAR
- 7" MIN - 9" MAX
- 18" ABSOLUTE AT ADULT TOILET
- 24" MIN AT ADULT LAVATORY
- 34" MAX AT ADULT LAVATORY
- (TO BOTTOM OF REFLECTIVE SURFACE) - 40" MAX AT ADULT MIRROR
- FOUNTAIN KNEE SPACE - 27" MIN AT ADULT DRINKER

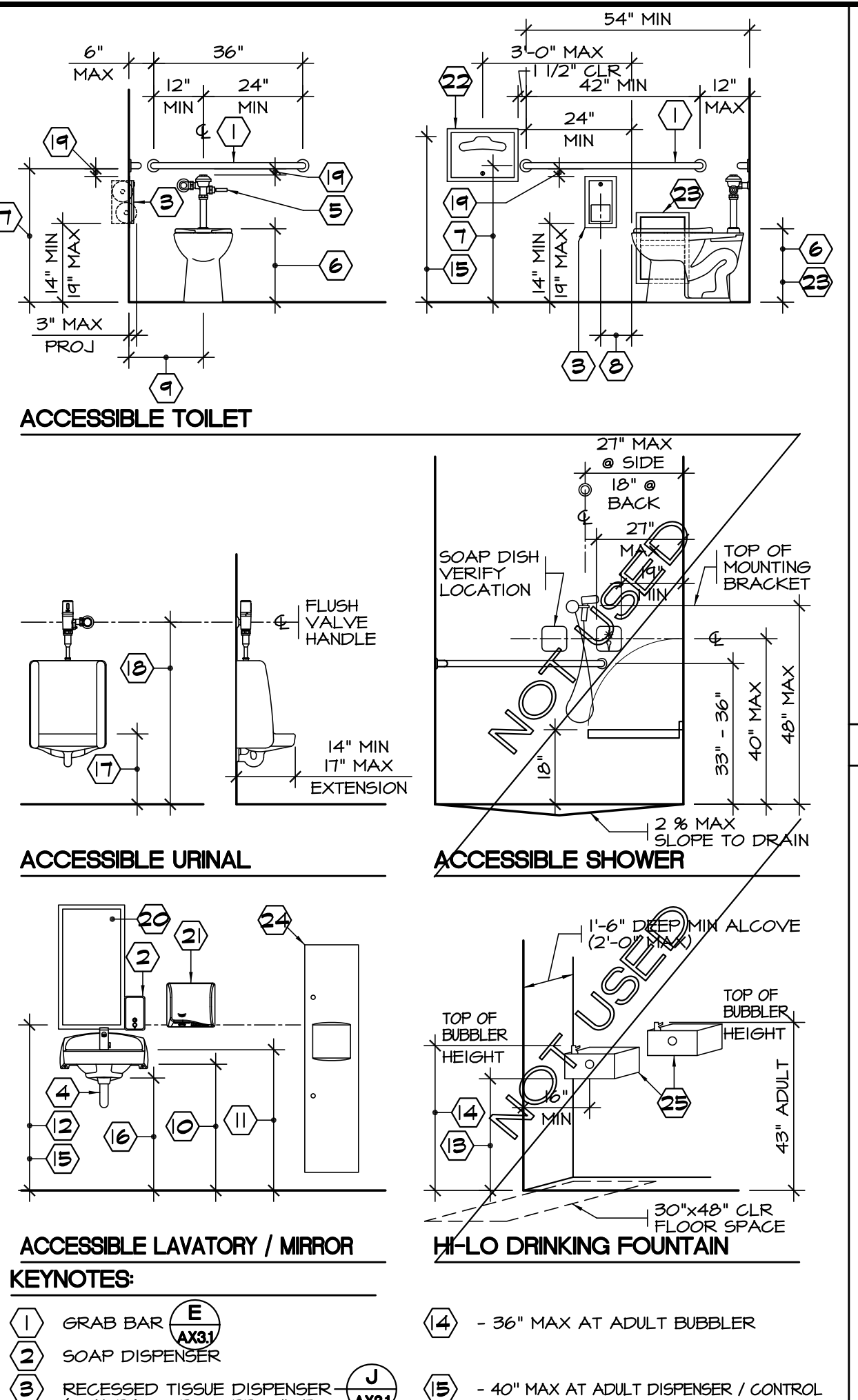
ACCESSIBILITY SIGNAGE SCALE: 1/2" = 1'-0" **A**

FIXTURE MOUNTING HEIGHTS SCALE: 3/8" = 1'-0" **B**



GRAB BAR DETAIL SCALE: NTS **E**

ASSISTIVE LISTENING SIGN SCALE: NTS **H**

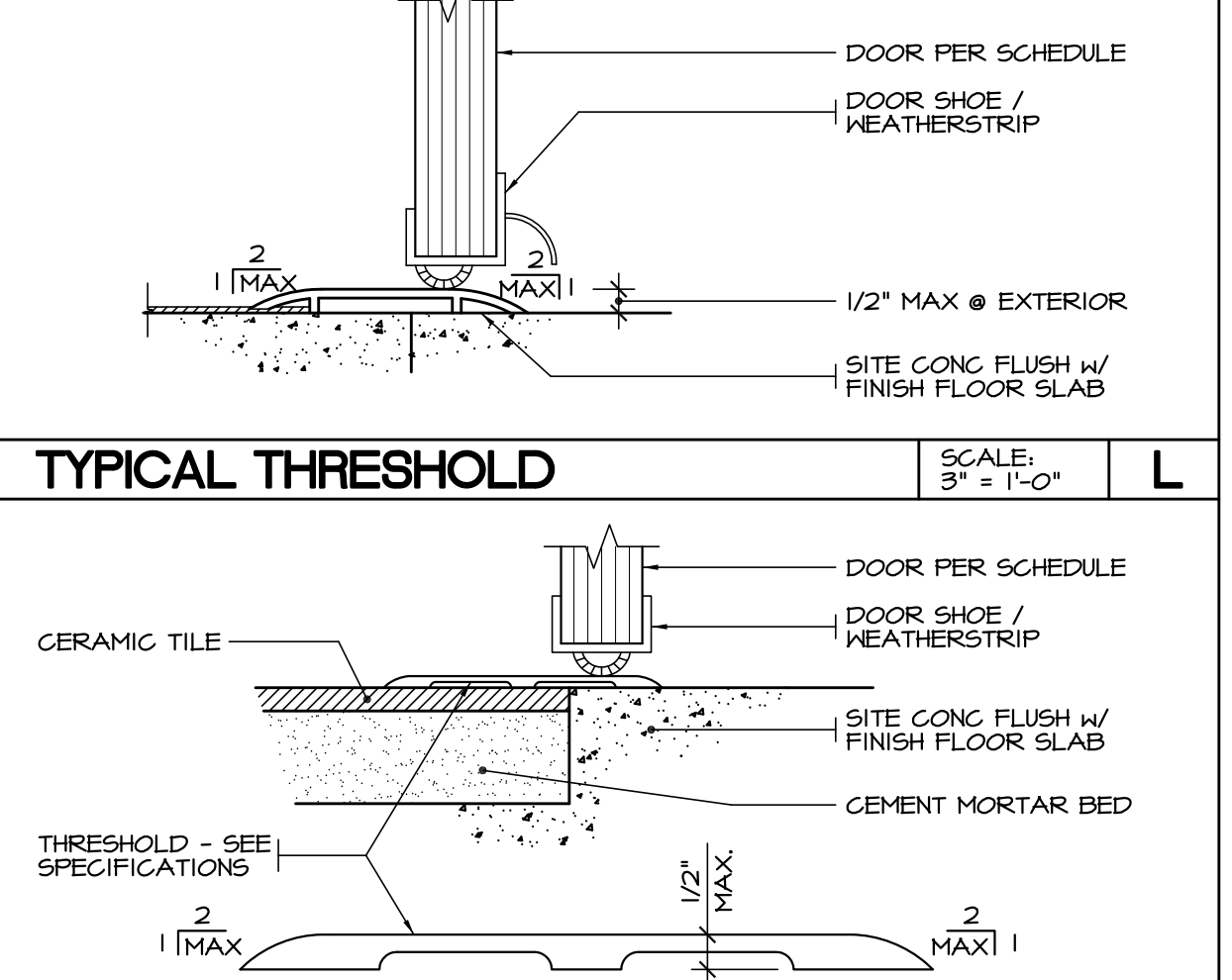


KEYNOTES:

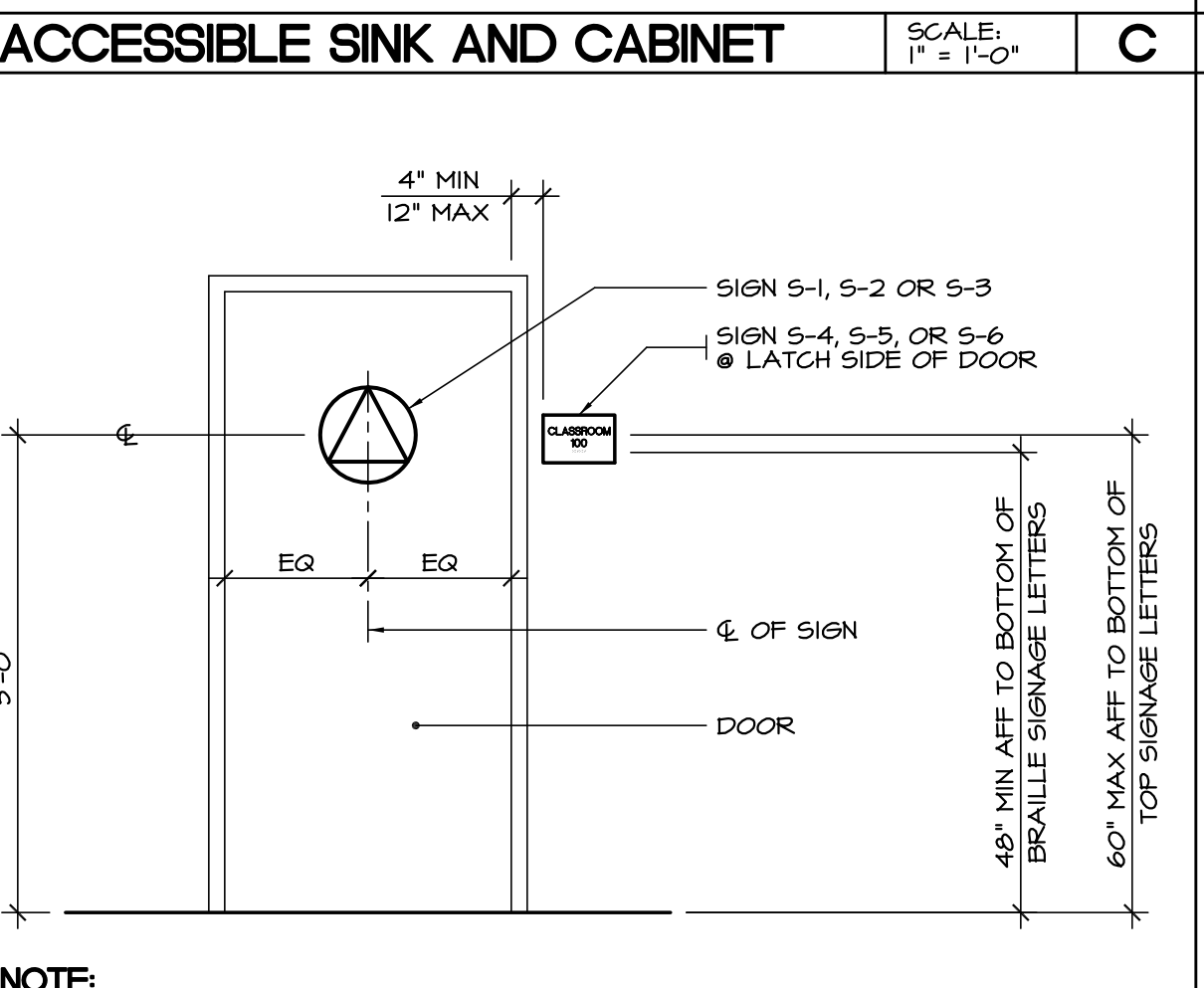
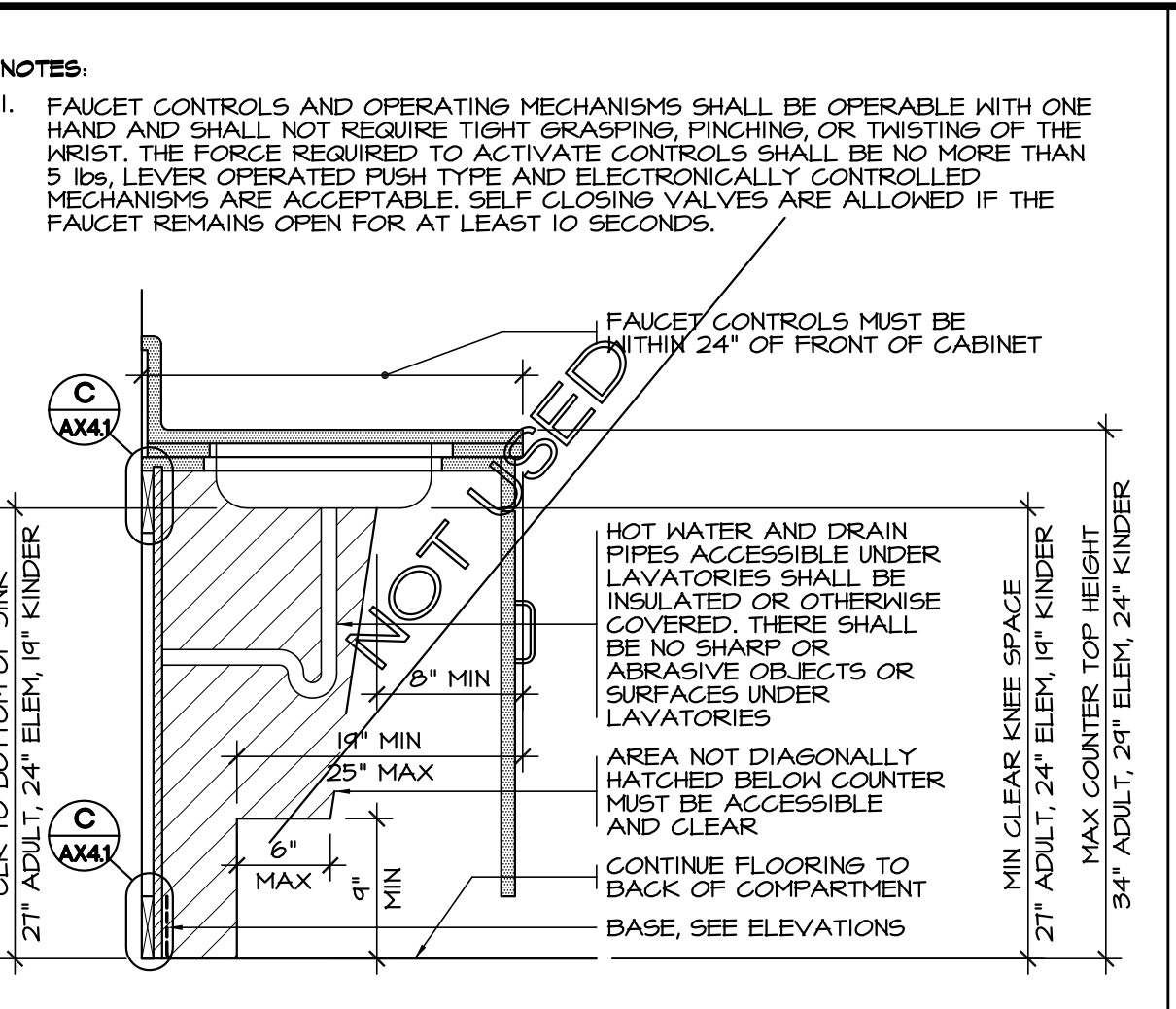
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- INSULATE TRAP AND HOT WATER PIPING, NO SHARP OR ABRASIVE EDGES
- HANDLE ON WIDE SIDE OF TOILET
- 17"-19" AT ADULT TOILET SEAT
- 33" AT ADULT GRAB BAR
- 7" MIN - 9" MAX
- 18" ABSOLUTE AT ADULT TOILET
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- 34" MAX AT ADULT LAVATORY
- (TO BOTTOM OF REFLECTIVE SURFACE) - 40" MAX AT ADULT MIRROR
- FOUNTAIN KNEE SPACE - 27" MIN AT ADULT DRINKER
- 36" MAX AT ADULT BUBBLER
- 40" MAX AT ADULT DISPENSER / CONTROL
- 27" MIN. AT ADULT LAVATORY
- 17" MAX AT ADULT URINAL
- 44" MAX AT ADULT URINAL
- 1'-1/2" MIN CLR TO THE TANGENT POINT OF GRAB BAR
- 16" x 30" MIRROR W/ SS FRAME
- HAND DRYER - 4" MAX PROJECTION
- TOILET SEAT COVER DISPENSER
- SEMI-RECESSED FEMININE NAPKIN DISPOSAL - SAME HEIGHT AS TOILET SEAT, 3" MAX PROJECTION
- RECESSED TOWEL DISPENSER / WASTE RECEPTACLE
- H-LO DRINKING FOUNTAIN NOTES:
1. CONTROLS TO BE LOCATED WITHIN 6" OF FRONT OF DRINKING FOUNTAIN
2. SPOUT IS LOCATED WITHIN 5" OF FRONT OF DRINKING FOUNTAIN
3. ANGLE OF WATER STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT
4. IF THE SPOUT IS LESS THAN 3" FROM FRONT OF THE DF THE ANGLE OF WATER STREAM SHALL BE 30° MAX
5. IF THE SPOUT IS BETWEEN 3"-5", ANGLE OF STREAM SHALL BE 15° MAX
6. SPOUT TO PROVIDE 4" MIN HIGH FLOW OF WATER
7. CONTROLS TO BE OPERATED WITH 5LB MAX FORCE PER CBC IIB1

NOTE:
ALL TRAPS AND ALL HOT WATER PIPING, WHETHER LOCATED AT LAVATORIES OR AT SINKS SET IN COUNTERS, TO BE INSULATED. NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

FIXTURE MOUNTING HEIGHTS SCALE: 3/8" = 1'-0" **B**

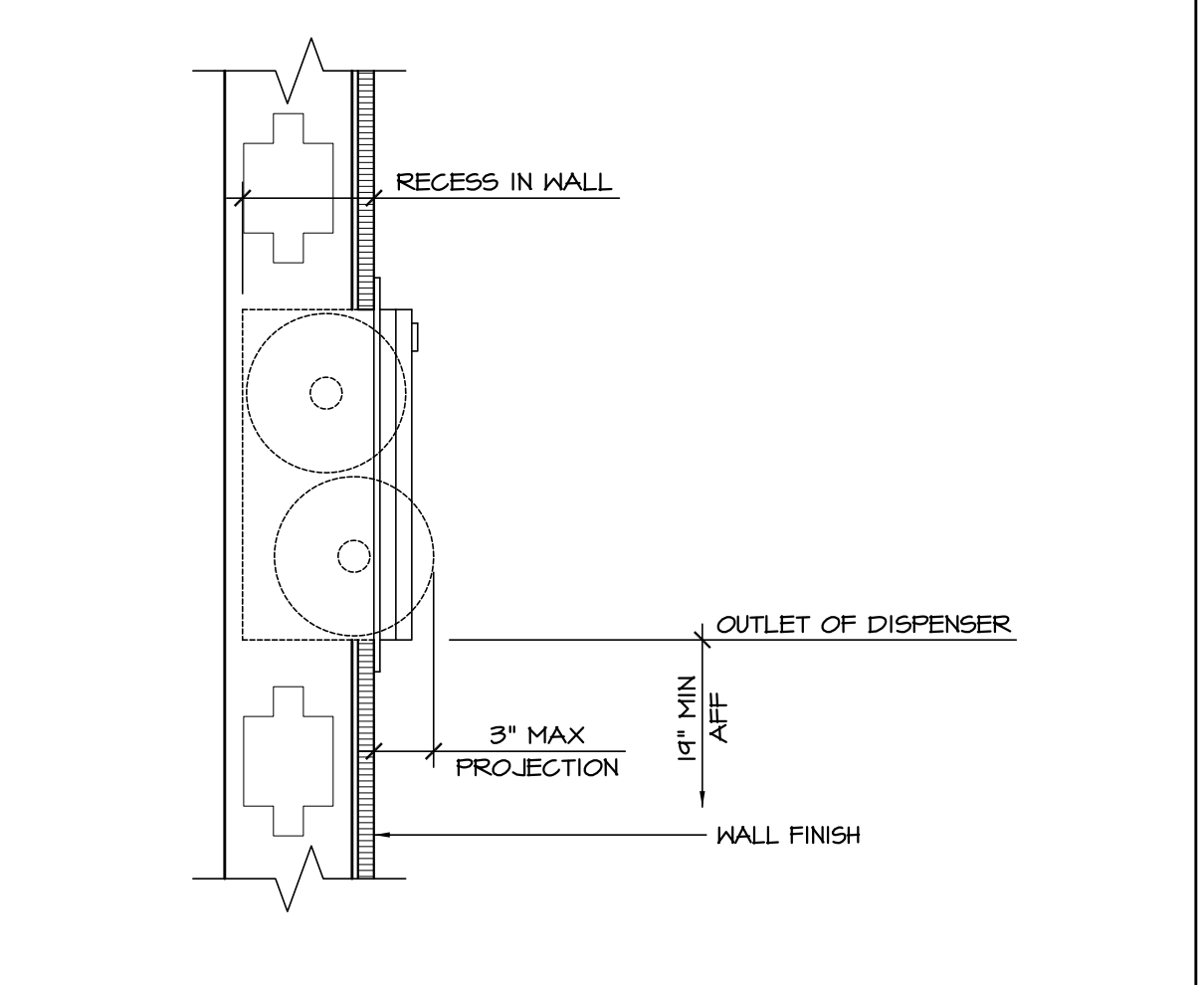


TYPICAL TILE THRESHOLD SCALE: 3" = 1'-0" **M**

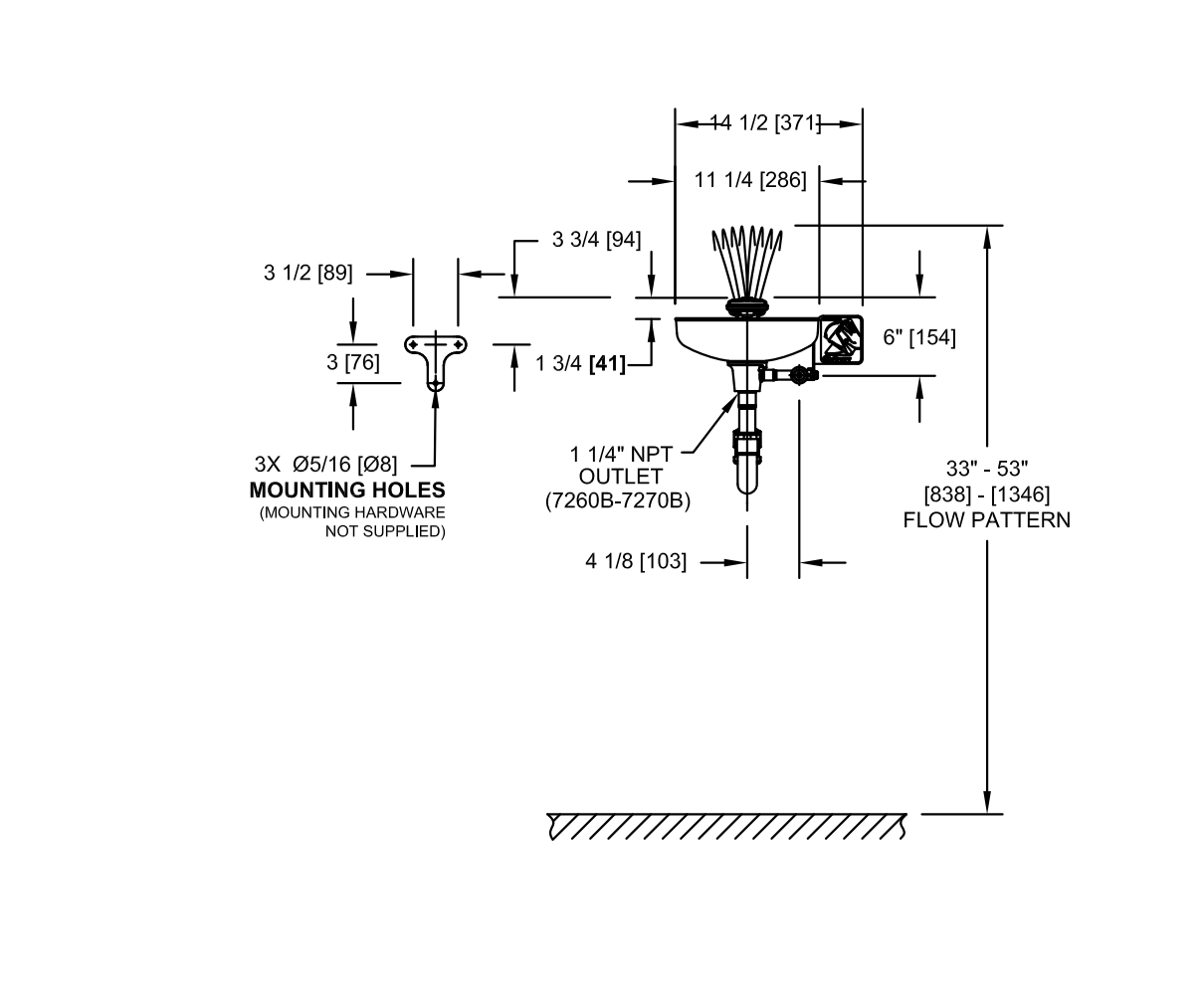


ACCESSIBLE SINK AND CABINET SCALE: 1" = 1'-0" **C**

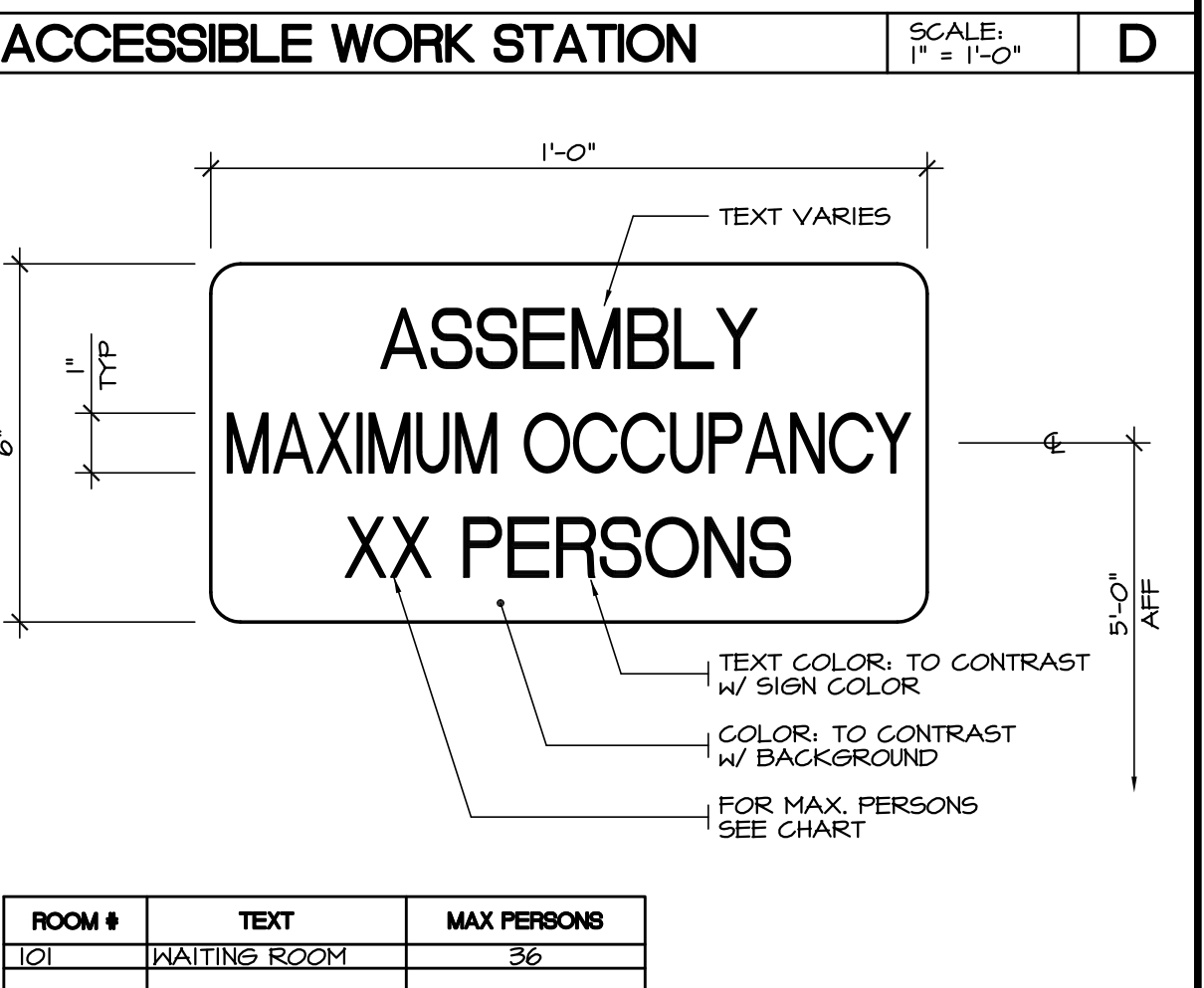
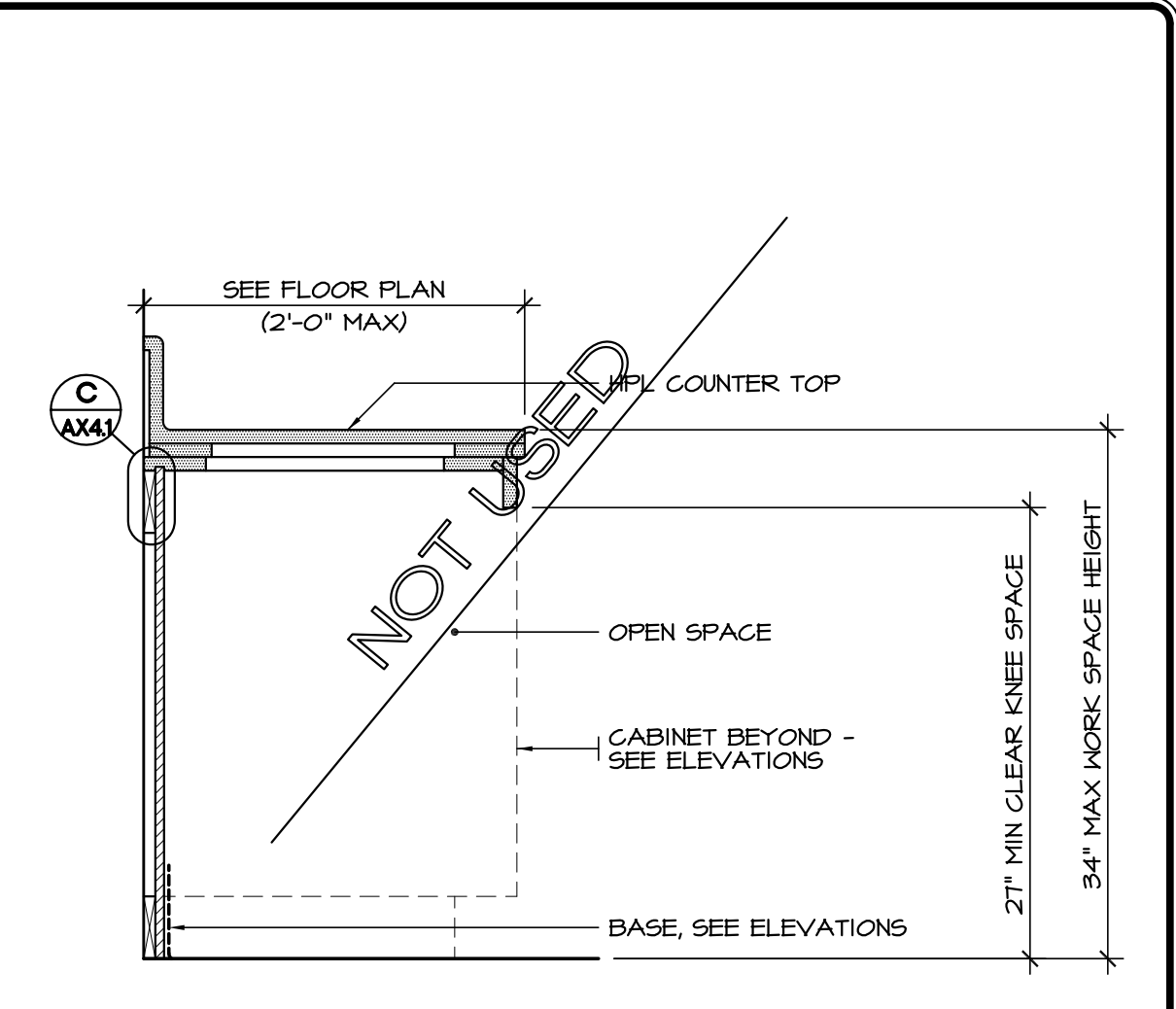
ACCESSIBLE WORK STATION SCALE: 1" = 1'-0" **D**



SIGN LOCATIONS / MOUNTING SCALE: 1/2" = 1'-0" **F**

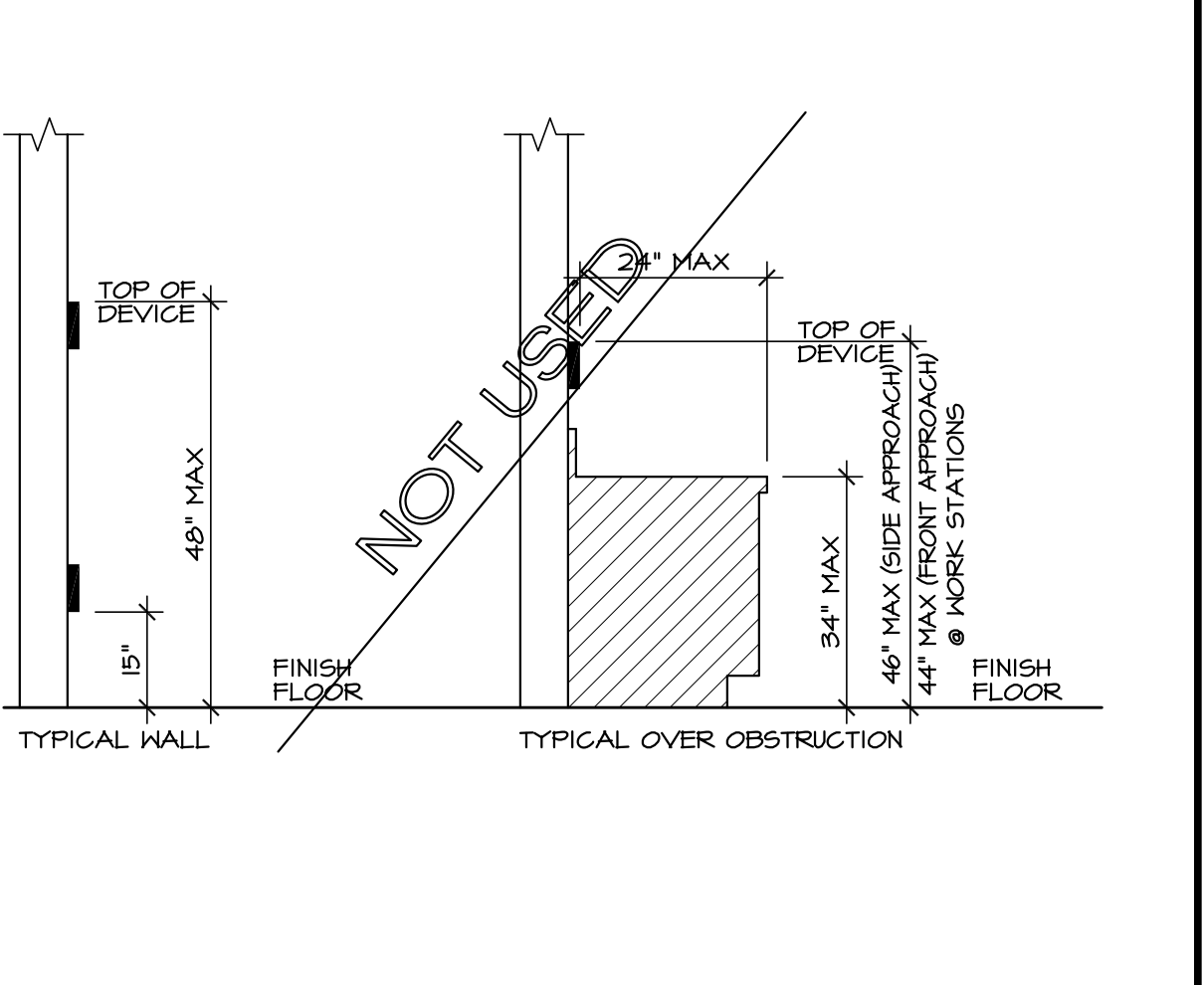


RECESSED TISSUE DISPENSER SCALE: NTS **J**

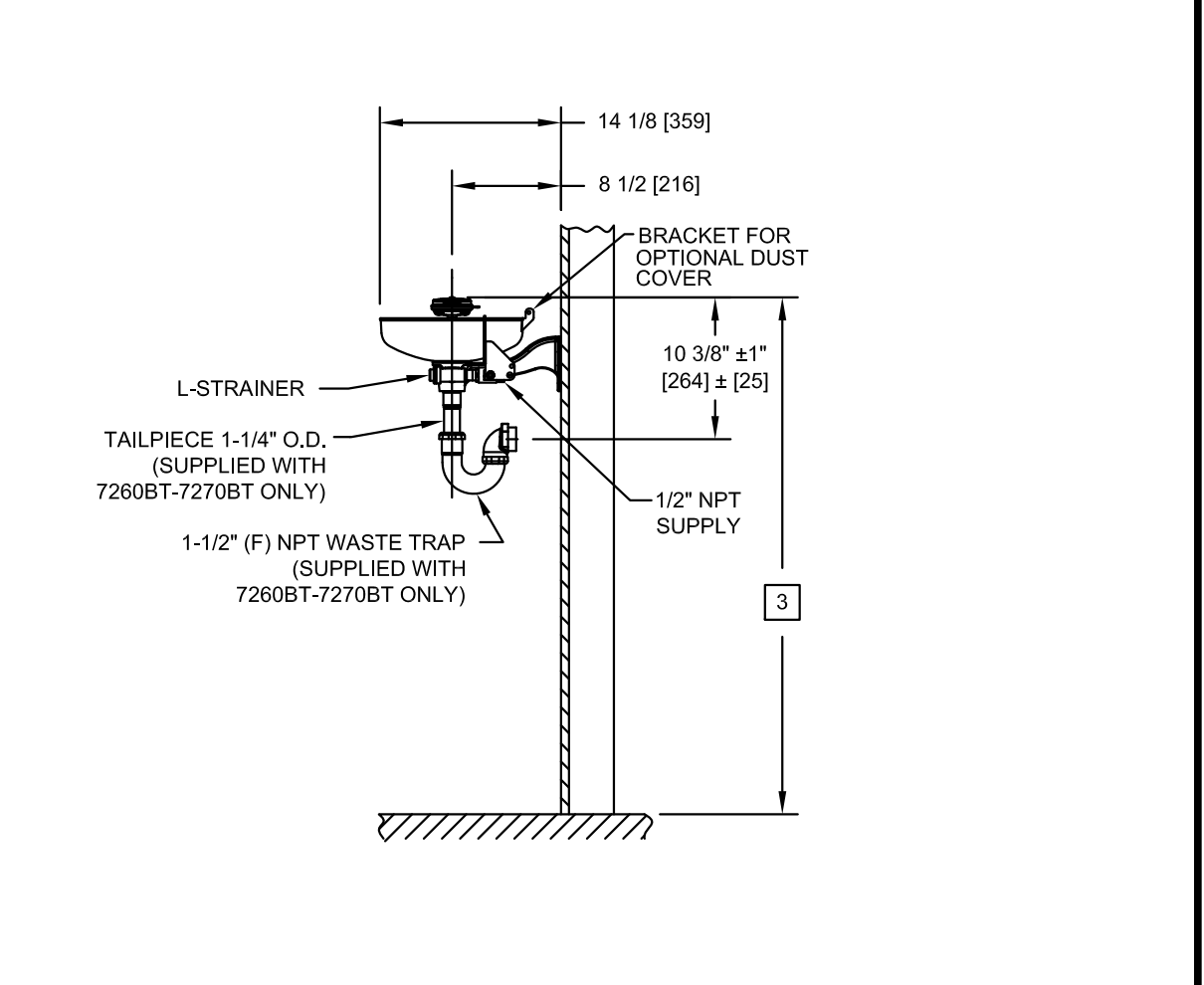


MAXIMUM OCCUPANCY SIGN SCALE: NTS **G**

TYPICAL MOUNTING HEIGHTS SCALE: NTS **K**



TYPICAL TILE THRESHOLD SCALE: 3" = 1'-0" **M**



EYE/FACE WASH STATION WALL MOUNT SCALE: NTS **N**



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Document Date: 04-06-18
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Project Title: IMPERIAL COUNTY PUBLIC WORKS
BRAMLEY YARD BUILDING REPLACEMENT
Sheet Title: ACCESS COMPLIANCE DETAILS
Project Number: 17-0100
Sheet Number: AX31

GENERAL NOTES:

- 1. THE PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
3. THE CONTRACTOR SHALL REVIEW EXISTING CONDITIONS ON THE SITE DURING THE BIDDING. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK. THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES PRIOR TO PROCEEDINGS.
4. UNLESS OTHERWISE SHOWN OR NOTED, ALL PHASES OF WORK ARE TO CONFORM TO THE MINIMUM STANDARDS OF THE CALIFORNIA BUILDING CODE (2001 EDITION C.B.C. VOL.2) RELATED UNIFORM BUILDING CODE STANDARDS (1997 EDITION), AND ANY A.S.T.M. SPECIFICATIONS WHICH THESE STANDARDS ARE BASED. WHERE CONFLICT BETWEEN BUILDING CODES AND SPECIFICATIONS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
5. ALL A.S.T.M. DESIGNATIONS REFERRED TO ON THESE DRAWINGS SHALL BE THE LATEST ADOPTED OR REVISED SPECIFICATION, AS OF THE DATE OF THESE DRAWINGS.
6. ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. DRAWINGS SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
8. THE STRUCTURAL DRAWINGS SHOW ONLY THE BASIC STRUCTURAL REQUIREMENTS. REFER TO CIVIL, ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS, SUCH AS:
8.1. SIZE AND LOCATION OF ALL OPENINGS.
8.2. SIZE AND LOCATION OF ALL NON-BEARING PARTITIONS.
8.3. SIZE AND LOCATION OF ALL CONCRETE CURBS, WALKS, ROOF AND FLOOR DRAINS, SLOPES, DEPRESSED SLAB AREAS, ETC.
8.4. FLOOR, ROOF AND WALL FINISHES.
8.5. DIMENSION NOT SHOWN ON STRUCTURAL DRAWINGS.
8.6. EQUIPMENT ANCHORAGE.
9. THE STRUCTURAL CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT LIFE AND THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING AND SHORING OF LOADS DUE TO CONSTRUCTION, EQUIPMENT, WIND, EARTHQUAKE, ETC. CONTRACTOR AT HIS OWN EXPENSE, SHALL ENGAGE PROPERLY QUALIFIED PERSONS TO DETERMINE WHERE AND HOW TEMPORARY PRECAUTIONARY MEASURES SHALL BE USED AND INSPECT SAME IN FIELD. CONTRACTOR SHALL CONFORM TO ALL SAFETY ORDINANCES, RULES AND CODES, OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE SAFETY ITEMS.
10. SATISFACTORY EXECUTION OF CONSTRUCTION IS DEPENDENT UPON CONFORMANCE WITH THE INTENT OF THESE DRAWINGS. OWNER OR CONTRACTOR SHALL RETAIN A CALIFORNIA LICENSED CIVIL OR STRUCTURAL ENGINEER DURING CONSTRUCTION TO OBSERVE THE CONSTRUCTION AND STATE THAT THE STRUCTURE HAS BEEN BUILT IN GENERAL CONFORMANCE WITH THE INTENT OF THESE DRAWINGS.
11. THIS FIRM DOES NOT PRACTICE OR CONSULT IN THE FIELD OF SAFETY ENGINEERING. WE DO NOT DIRECT THE CONTRACTOR'S OPERATIONS AND WE CANNOT BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL OTHER THAN OUR OWN ON THE SITE. THE SAFETY OF OTHERS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHOULD NOTIFY THE OWNER IF HE CONSIDERS ANY OF THE RECOMMENDED ACTIONS PRESENTED HEREIN TO BE UNSAFE.
12. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOORS OR ROOF. LOAD SHALL NOT EXCEED DESIGN LIVE LOAD FOR EACH PARTICULAR LEVEL. WHEN WEIGHT OF MATERIALS OR EQUIPMENT MAY EXCEED DESIGN LOAD, STRUCTURAL SYSTEMS SHALL BE SHORED.
13. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
14. NO PIPES OR DUCTS SHALL BE PLACED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE ENGINEER.

DESIGN BASIS:

CODE: 2016 C.B.C. (CALIFORNIA BUILDING CODE TITLE)

GRAVITY LOADS:

1. FLOOR LIVE LOAD 125 P.S.F. (LIGHT STORAGE)

LATERAL LOADS:

1. WIND

BASIC WIND SPEED (3-SECOND GUST) 110 MPH
WIND IMPORTANCE FACTOR, I 1.0
WIND EXPOSURE C
INTERNAL PRESSURE COEFFICIENT 0.18

2. SEISMIC (FOR INTERIOR OFFICE)

SEISMIC IMPORTANCE FACTOR, I 1.0
SEISMIC OCCUPANCY CATEGORY II
MAPPED SPECTRAL RESPONSE ACCELERATION, Ss 1.15g
MAPPED SPECTRAL RESPONSE ACCELERATION, S1 0.432g
SITE CLASS D
MAPPED SPECTRAL RESPONSE ACCELERATION, Sd 0.184g
MAPPED SPECTRAL RESPONSE ACCELERATION, Sd1 0.452g
SEISMIC DESIGN CATEGORY D
BASIC SEISMIC-FORCE-RESISTING SYSTEM LIGHT-FRAMED WALLS SHEATHED WITH WOOD

SEISMIC BASE SHEAR: V = 0.162W
V = 0.159W (ASD)

SEISMIC RESPONSE COEFFICIENT, Cs 0.16
RESPONSE MODIFICATION FACTOR, R 6.5
ANALYSIS PROCEDURE USED EQUIVALENT LAT. FORCE

REQUIRED SPECIAL INSPECTIONS

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SECTION 17 OF THE CALIFORNIA BUILDING CODE.

Table with 3 columns: ITEM, REQUIRED, REMARKS. Rows include EPOXY ANCHORS, EXPANSION ANCHORS, FASTENER SPACING OF SHEATHING WHERE SPACING IS 4 INCHES OR LESS.

CONCRETE:

- 1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF A.C.I. 318-08 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS.
2. ALL CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-44, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT 28 DAYS.
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH. THE MAXIMUM SIZE AGGREGATE IN SLABS ON GRADE, WALLS, AND ALL OTHER CONCRETE SHALL BE 3/4" INCH.
4. CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE II, LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33, 1/2" MAXIMUM SIZE, MAX. WATER CEMENT RATIO = 0.55.
5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGNS SHALL CONFORM TO C.B.C. SEC. 1909, UNLESS NOTED OTHERWISE.
7. NON-STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
8. PROVIDE 2- #5 DIAGONAL BARS AT CORNERS OF WALL, FLOOR, AND ROOF OPENINGS AND INSIDE CORNERS OF FLOORS.
9. PROVIDE WATERSTOPS IN ALL BELOW GRADE FOUNDATION WALL CONSTRUCTION JOINTS.
10. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
11. PLACEMENT OF CONCRETE SHALL CONFORM TO A.C.I. 304. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE FOR ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
12. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM, CLASS I, EXT-A.P.A. PLYWOOD.
13. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
14. ALL REINFORCING STEEL, ANCHOR BOLTS, DONNELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
15. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OF RECORD FOR REVIEW BEFORE STARTING WORK.
16. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
17. PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
18. SLEEVE PLUMBING OPENINGS IN SLABS WITH NON-CORROSIVE SLEEVE BEFORE PLACING CONCRETE AND BEND REINFORCING AROUND SLEEVES.
19. ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE MINIMUM COVER:
FOOTINGS CAST AGAINST EARTH.....4"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER.....2"
BEAMS AND GIRDERS.....1 1/2"
WALLS.....1 1/2"
COLUMN TIES.....1 1/2"
SLABS (#11 AND SMALLER).....3/4"
IF A MINIMUM OF 3" CONCRETE COVER IS NOT POSSIBLE, REINFORCING BARS MUST BE EPOXY DIPPED
20. CONCRETE CURING: TYPICALLY REQUIRED FOR 10 DAYS.
21. SAW CUT LINES AS SHOWN ON PLANS 3/4" DEEP CONTROL MAX. TO BE SAW CUT IMMEDIATELY AFTER FINISHING SLAB.
22. SLEEVE PLUMBING OPENINGS IN SLABS WITH NON-CORROSIVE SLEEVE BEFORE PLACING CONCRETE AND BEND FORGING AROUND SLEEVES. (IF REQUIRED)

REINFORCING STEEL:

- 1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE U.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, DEFORMED GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40, REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, DEFORMED GRADE 60.
3. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A-706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO U.B.C. STANDARD 19-1 AND STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.N.S.I. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 90 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL REINFORCING BAR BENDS SHALL BE MADE OTHERWISE PERMITTED BY THE BUILDING OFFICIAL (U.B.C. 1907.3.1).
5. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A-108, AND SHALL BE LAPPED 1 SPACES AND 12" MINIMUM.
6. DONNELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE LAPPED WITH THE SAME GRADE, SIZE, SPACINGS AND NUMBER AS THE VERTICAL REINFORCEMENT, RESPECTIVELY.

REINFORCING SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. ALL VERTICAL REINFORCING SHALL BE CONTINUOUS BETWEEN TWO LEVELS, UNLESS NOTED OTHERWISE.
SLAB ON GRADE REINFORCING SHALL BE POSITION AT MID-DEPTH, UNLESS NOTED OTHERWISE.
PROVIDE #3 SPACER TIES AT 2'-6" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.N.O.

ALL REBAR SIZES ON THESE DRAWINGS ARE IN POUND - INCH UNITS. SEE TABLE FOR METRIC EQUIVALENT.
PIPING AND CONDUIT SHALL BE SO FABRICATED AND INSTALLED THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED. A.C.I. #6.3.12

Table with 2 columns: POUND - INCH BAR SIZE DESIGNATION and METRIC BAR SIZE DESIGNATION. Rows show #3 through #18 and M10 through M51.

LUMBER:

- 1. STRUCTURAL LUMBER SHALL TO STRESS-MARKED DOUGLAS FIR-LARCH 545 IN ACCORDANCE WITH GRADING AND DRESSING RULE NO. 16 OF THE WEST COAST LUMBER INSPECTION BUREAU (LATEST EDITION).
2. LUMBER SHALL NOT BE BORE OR NOTCHED, EXCEPT WHERE DETAILED.
3. SILLS AND PLATES IN CONTACT WITH CONCRETE OR MASONRY WITHIN 48 INCH OF GROUND SHALL BE PRESSURE TREATED DOUGLAS FIR-LARCH.
4. PROVIDE 2x FIRE BLOCKING AT MID-HEIGHT OF STUD PARTITIONS OVER 8'-6" IN HEIGHT.
5. PROVIDE 2x SOLID BLOCKING AT ALL SUPPORTS FOR RAFTERS, CEILING JOISTS AND FLOOR JOIST EXCEPT WHERE RAFTERS OR JOISTS ARE SUPPORTED BY JOIST HANGERS.
6. ROOF SHEATHING INSPECTIONS SHALL BE MADE PRIOR TO COVERINGS. ALL STRUT CONNECTIONS SHALL BE COMPLETED PRIOR TO INSPECTION.
7. SEE DRAWINGS FOR SHEAR WALL SCHEDULE, HOLDDOWN DETAILS, PANEL LOCATIONS, ETC. SHEAR PANEL NAILING SHALL BE SPECIFIED AT LEAST 3/8 INCH FROM ALL EDGES.
8. METAL CONNECTORS SHALL BE "SIMPSON STRONG-TIE" OR EQUAL, EXCEPT AS SHOWN. FILL ALL HOLES OF THE PREFAB. CONNECTORS AS SPECIFIED BY MANUFACTURER.
9. LUMBER MINIMUM GRADE:
9.A. HORIZONTAL MEMBERS: JOISTS AND RAFTERS NO.2
6x BEAMS AND LARGER JOISTS NO.1
4x BEAMS AND SMALLER LEDGERS AND NAILERS NO.1
HEADERS NO.1
9.B. VERTICAL MEMBERS: 2x4 STUDS, 8'-0" MAX. NO.2
2x4 STUDS, 8'-0" TO 14'-0" NO.2
2x6 STUDS AND LARGER STUDS NO.2
10. ALL BOLTS AND LAG SCREWS SHALL HAVE STANDARD CUT WASHERS BETWEEN THE WOOD AND THE NUTS. SEE DRAWINGS FOR LOCATIONS OF PLATE WASHERS AS REQUIRED.
BOLTS A.S.T.M. A-307
LAG SCREWS A.N.S.I. B-18
NUTS A.S.T.M. A-563
WASHERS F-844
11. LEAD HOLES FOR LAG SCREWS SHALL HAVE THE SAME DIAMETER OF THE SHANK FOR THE UNTHREADED PORTION OF THE SHANK, AND 70% OF THE SHANK DIAMETER FOR THE THREADED PORTION. ALL LAG SCREWS SHALL BE INSERTED BY TURNING WITH A WRENCH/AND NOT BY DRIVING WITH A HAMMER.
12. TOP PLATES OF ALL WOOD STUD WALLS SHALL BE TWO PIECE SAME SIZE AS STUDS EXCEPT AS NOTED. OTHERWISE LAP 4'-0" MINIMUM WITH NO LESS THAN 12- 16d AND NO MORE THAN SIX INCHES BETWEEN NAILS AT EACH LAP.
13. STRUCTURAL PLYWOOD FOR ROOF AND WALLS SHALL BE A.P.A. RATED AS INDICATED ON THE DRAWINGS IN ACCORDANCE WITH U.S. PRODUCT STANDARD PS-1-01.
14. DOUBLE JOIST SHALL BE PROVIDED UNDER ALL PARALLEL PARTITIONS.
15. ALL BOLTS, LAG SCREWS, AND WOOD SCREWS SHALL BE RETIGHTENED PRIOR TO THE APPLICATION OF DRYWALL, PLYWOOD, PLASTER, ETC.
16. JOISTS MORE THAN 8 INCH DEPTH SHALL BE CONTINUOUSLY BRIDGED BY SOLID BLOCKING, 2 INCH THICK AND THE FULL DEPTH OF THE JOIST, SPACED AT 8'-0" ON CENTER.
17. ALL NAILING SHALL CONFORM TO I.B.C. TABLE NO. 2304.9.1 NAILING SCHEDULE, USING COMMON WIRE NAILS. PREDRILL ALL NAILS 20d AND LARGER AND WHERE REQUIRED TO PREVENT SPLITTING.
18. THE MOISTURE CONTENT OF WOOD MEMBERS SHALL NOT EXCEED 19% BEFORE INSTALLATION. IT WILL BE THE RESPONSIBILITY OF THE INSPECTOR OF RECORD TO VERIFY THAT THE CONTRACTOR HAS SUPPLIED LUMBER OF THE PROPER MOISTURE CONTENT BEFORE INSTALLATION. THE USE OF A HAND HELD MOISTURE CONTENT METER IS ACCEPTABLE.

NAILING SCHEDULE (IBC TABLE 2304.9.1)

Table with 2 columns: CONNECTION and NAILING. Rows include JOIST TO SILL OR GIRDER, TOENAIL; BRIDGING TO JOIST, TOENAIL; 1" X 6" (25 MM X 152 MM) SUBFLOOR OR LESS; SOLE PLATE TO JOIST OR BLOCKING; TOP PLATE TO STUD, END NAIL; STUD TO SOLE PLATE; DOUBLE STUD, FACE NAIL; DOUBLE TOP PLATES; BLOCKING BETWEEN JOISTS; RIM JOIST TO TOP PLATE, TOENAIL; TOP PLATE, LAP AND INTERSECTIONS; CONTINUOUS HEADER; CEILING JOISTS TO PLATE; CONTINUOUS HEADER TO STUD; CEILING JOISTS, LAPS OVER PARTITIONS; CEILING JOISTS TO PARALLEL RAFTERS; RAFTERS TO PLATE; 1" X 8" (25 MM X 203 MM) SHEATHING; WIDER THAN 1" X 8"; BUILD-UP CORNER STUDS; BUILD-UP GIRDERS AND BEAMS; 2" (51 MM) PLANKS; WOOD STRUCTURAL PANELS; COMBINATION SUBFLOOR-UNDERLAYMENT; PANEL SIDING; FIBERBOARD SHEATHING; INTERIOR PANELING.

COMMON NAILS ONLY.

- 1. COMMON NAILS ONLY.
2. NAILS SPACED AT 6 INCHES (152 mm) ON CENTER AT EDGES, 12 INCHES (305 mm) AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152 mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES (1219 mm) OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS 2315A.3.3 AND 2315A.4. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
3. COMMON OR DEFORMED SHANK COMMON DEFORMED SHANK.
4. CORROSION-RESISTANT SIDING OR CASING NAIL.
5. FASTENERS SPACE 3 INCHES (76 mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152 mm) ON CENTER AT INTERMEDIATE SUPPORTS.
6. CORROSION-RESISTANT ROOFING NAIL. 16-INCH-DIAMETER (11 mm) HEAD AND 1 1/2-INCH (38 mm) LENGTH FOR 1/2-INCH (12.7 mm) SHEATHING AND 1 3/4-INCH (44 mm) LENGTH FOR 25/32-INCH (20 mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.
7. CORROSION-RESISTANT STUD NAIL. 16-INCH-NOMINAL 7/16-INCH (11 mm) CROWN AND 1 1/8-INCH (29 mm) LENGTH FOR 1/2-INCH (12.7 mm) SHEATHING AND 1 1/2-INCH (38 mm) LENGTH FOR 25/32-INCH (20 mm) SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 2304A.3.
8. PANEL SUPPORTS AT 16 INCHES (406 mm) [20 INCHES (508 mm) IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OR FINISH NAILS SPACED 6 INCHES (152 mm) ON PANEL EDGES, 12 INCHES (305 mm) AT INTERMEDIATE SUPPORTS.
9. PANEL SUPPORTS AT 24 INCHES (610 mm). CASING OR FINISH NAILS SPACED 6 INCHES (152 mm) ON PANEL EDGES, 12 INCHES (305 mm) AT INTERMEDIATE SUPPORTS.

GLUED-LAMINATED BEAM:

ALL GLUED-LAMINATED BEAM (GLB) SHALL CONFORM TO MATERIAL AND LAMINATING REQUIREMENTS OF PRODUCTS STANDARD "STRUCTURAL GLUED LAMINATED TIMBER" GRADE 24F DF/DF, AND NET USE ADHESIVE, ARCHITECTURAL GRADE PS 56-73.
A. PROVIDE 24-V4 DF/DF FOR SIMPLY SUPPORTED BEAMS.
B. PROVIDE 24-V8 DF/DF FOR CANTILEVERED AND CONTINUOUS BEAMS.
GLUED-LAMINATED BEAM TO BE CAMBERED PER PLAN. PROVIDE ZERO CAMBER WHERE NO CAMBER IS INDICATED.

ALL EXPOSED OR PARTIALLY EXPOSED GLUED-LAMINATED BEAMS SHALL BE PRESURE TREATED.

SUBMIT COPY OF AMERICAN INSTITUTE OF TIMBER ENGINEERING CERTIFICATE OF CONFORMANCE TO ARCHITECT, ENGINEER AND INSPECTOR PRIOR TO INSTALLATION. SUBMIT FIVE COPIES OF COPY OF SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

SURFACES OF MEMBERS SHALL BE SEAMLESSLY PENETRATING SEALER.

MEMBERS SHALL BE WRAPPED BEFORE INSTALLATION. UNLESS OTHERWISE SPECIFIED, A TYPE OF END SEALER SHALL BE APPLIED AS SOON AS POSSIBLE AFTER FABRICATION.

THE MAXIMUM MOISTURE CONTENT OF THE WOOD AT THE TIME OF GLUING SHALL NOT EXCEED 16 PERCENT. THE MAXIMUM MOISTURE CONTENT OF THE WOOD FOR MEMBERS THAT WILL BE EXPOSED TO DIRECT SUNLIGHT IN THE FINISH STRUCTURE SHALL NOT EXCEED 10 PERCENT AT TIME OF GLUING. THE MINIMUM MOISTURE CONTENT SHALL NOT BE LESS THAN 7 PERCENT. THE RANGE OF MOISTURE CONTENT OF LAMINATIONS ASSEMBLED INTO A SINGLE MEMBER SHALL NOT EXCEED 5 PERCENT AT THE TIME OF GLUING.

BEAMS SHALL BE ARCHITECTURAL APPEARANCE GRADE WHERE EXPOSED, INDUSTRIAL APPEARANCE GRADE ELSEWHERE.

ALL LAMINATIONS FOR GLUED LAMINATED BEAMS SHALL BE 2" NOMINAL THICKNESS AND OF THE WIDTH SHOWN OR NOTED ALL LAMINATIONS SHALL BE PARALLEL TO THE BOTTOM EDGE OF THE BEAM, EXCEPT AS NOTED.

ALL GLUED LAMINATED TIMBER SHALL BE CONTINUOUSLY INSPECTED DURING FABRICATION IN ACCORDANCE WITH SEC. 2327.1 BY A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE. AN A.I.T.C. CERTIFICATE WILL NOT MEET THIS REQUIREMENT.

NOTCHING OR BORING OF GLUED LAMINATED BEAMS SHALL BE ALLOWED ONLY WHERE SPECIFICALLY DETAILED.

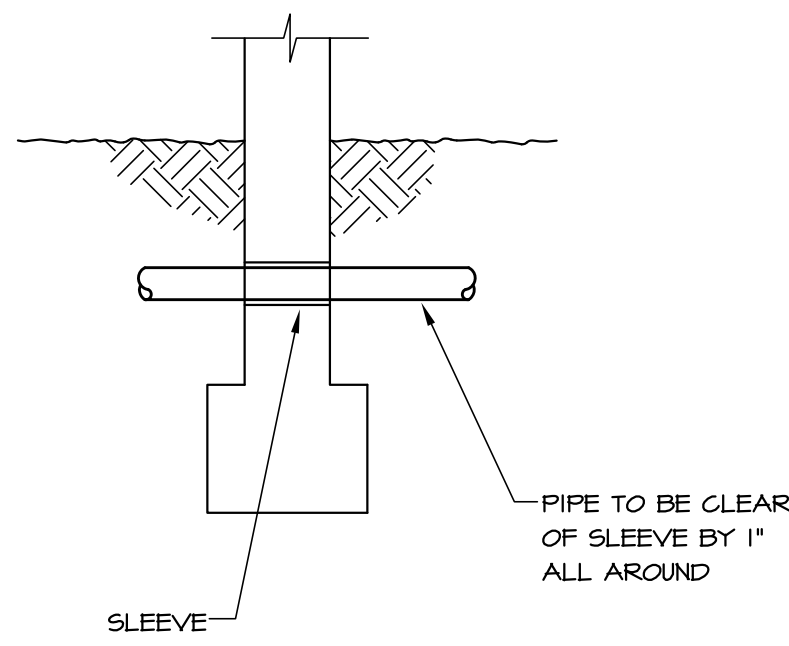


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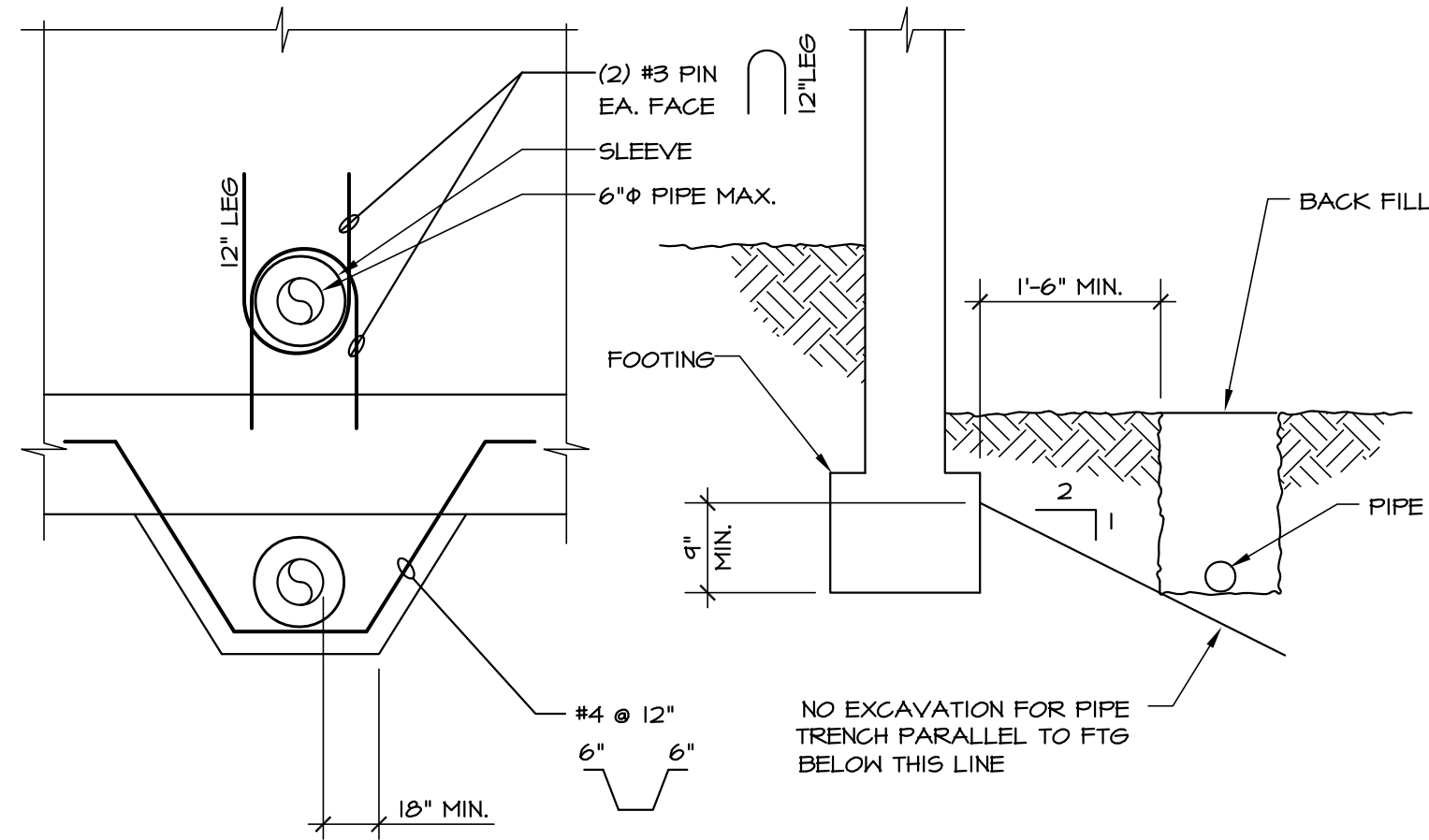
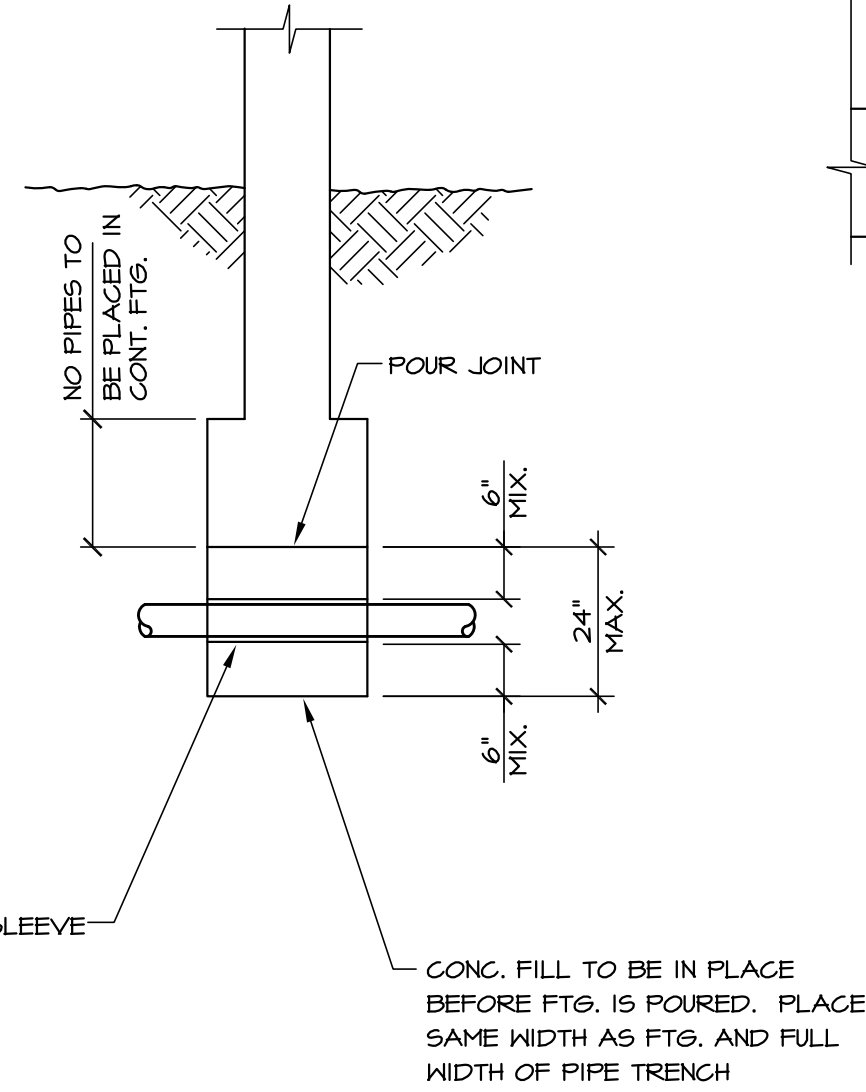
Table with 2 columns: Document Date 04-06-18, Date Last Revised.

Project Title: IMPERIAL COUNTY PUBLIC WORKS BRAWLEY YARD BUILDING REPLACEMENT
Sheet Title: STRUCTURAL NOTES
Project Number: 17-0100
Sheet Number: 50.1

Project Number: 17-0100
Sheet Number: 50.1



PIPE AT FOUNDATION WALL
(PIPE IS MORE THAN 2'-6" BELOW FINISH GRADE AND PASSES THRU FOUNDATION WALL)



- NOTES:**
- INSIDE DIAMETER OF SLEEVE TO BE 2" LARGER THAN OUTSIDE DIAMETER OF PIPE
 - SLEEVES SHALL BE NON-CORROSIVE, FILL VOID W/ SEALANT AT EA. END.

TYPICAL PIPE THRU FOOTING

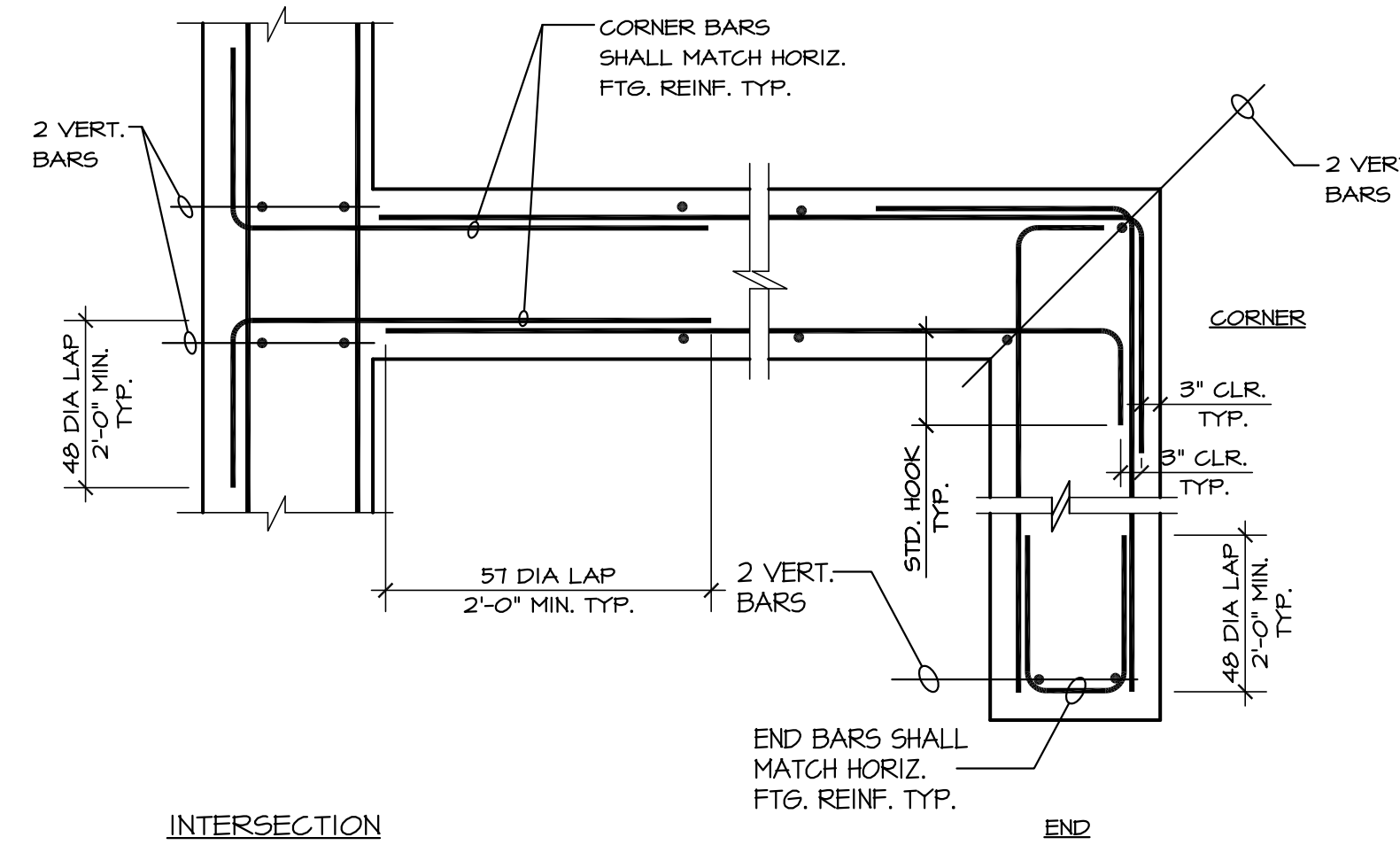
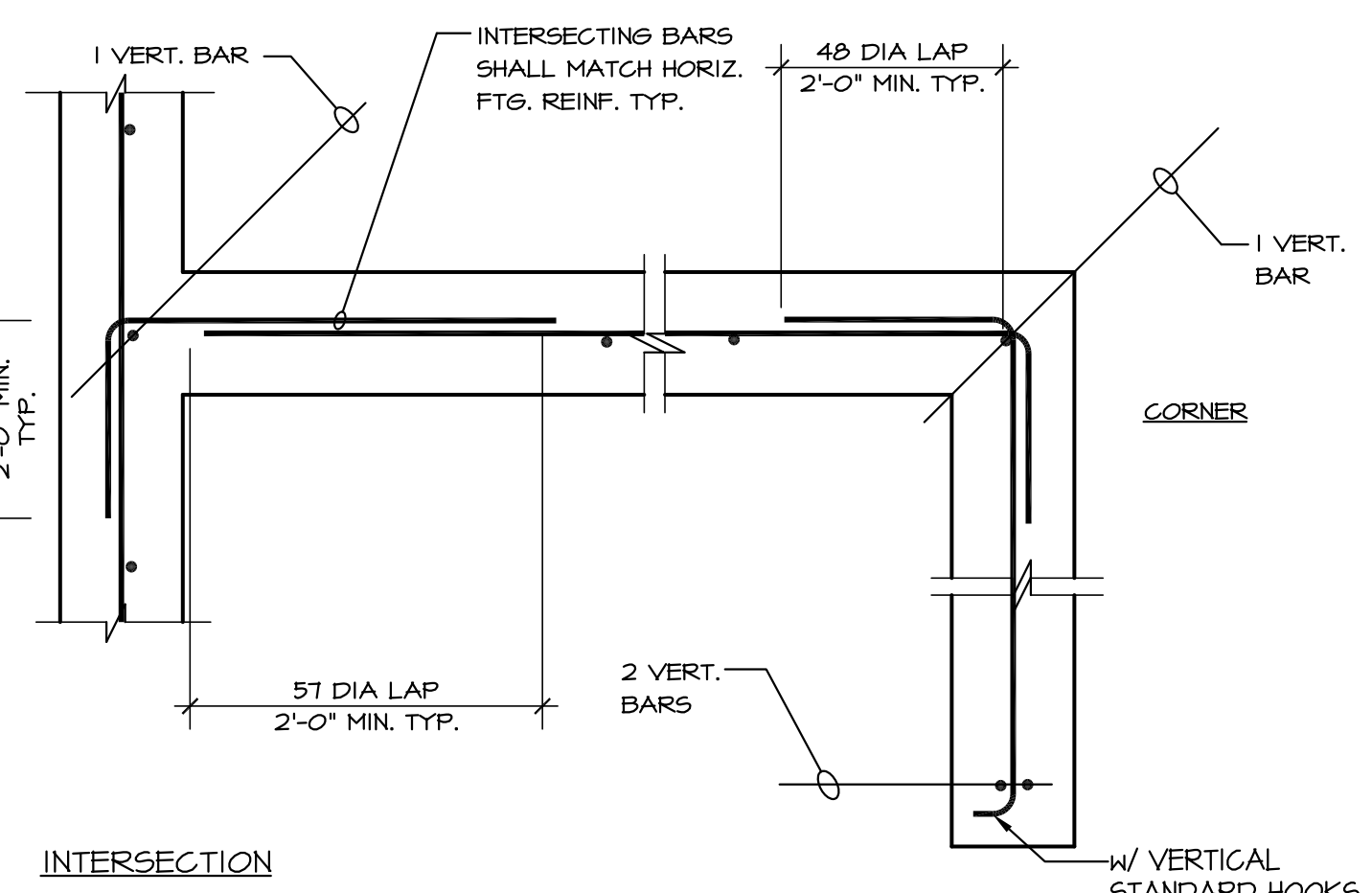
SCALE: NONE

1

TYPICAL CONCRETE FOOTING REBAR - PLAN VIEW

SCALE: NONE

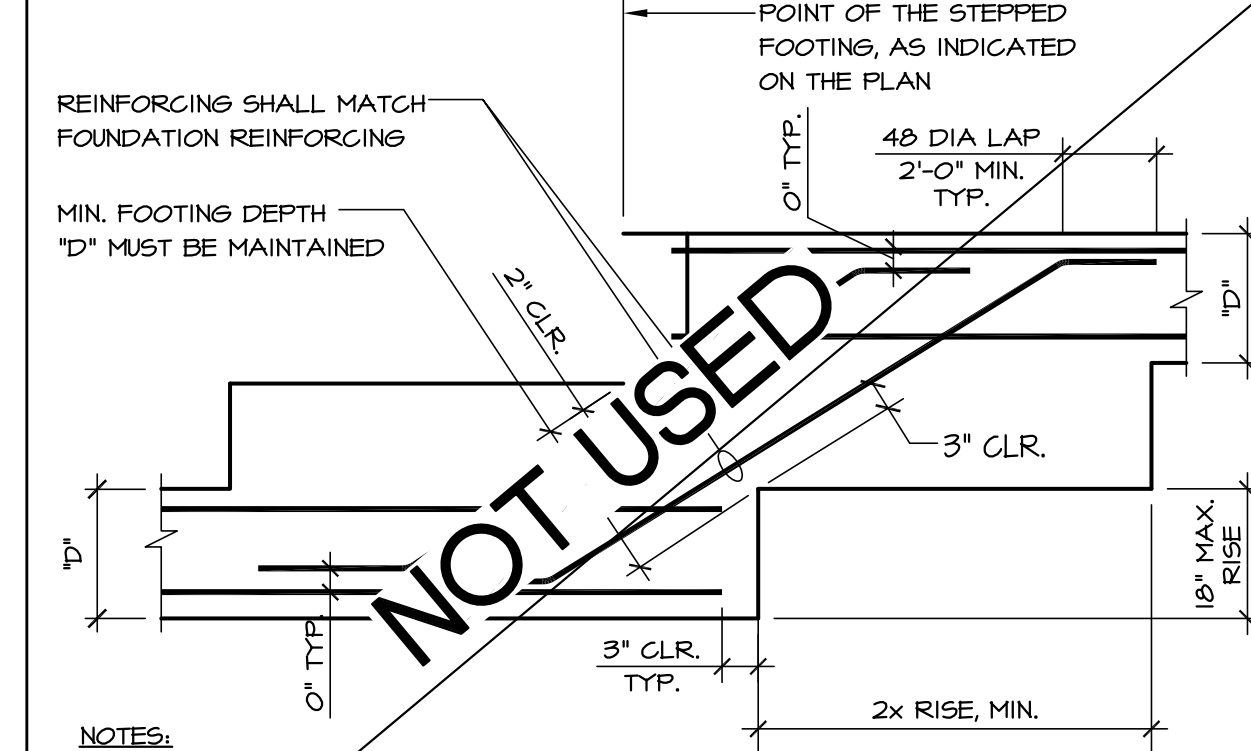
2



TYPICAL PAD ON SLAB

SCALE: N.T.S.

3

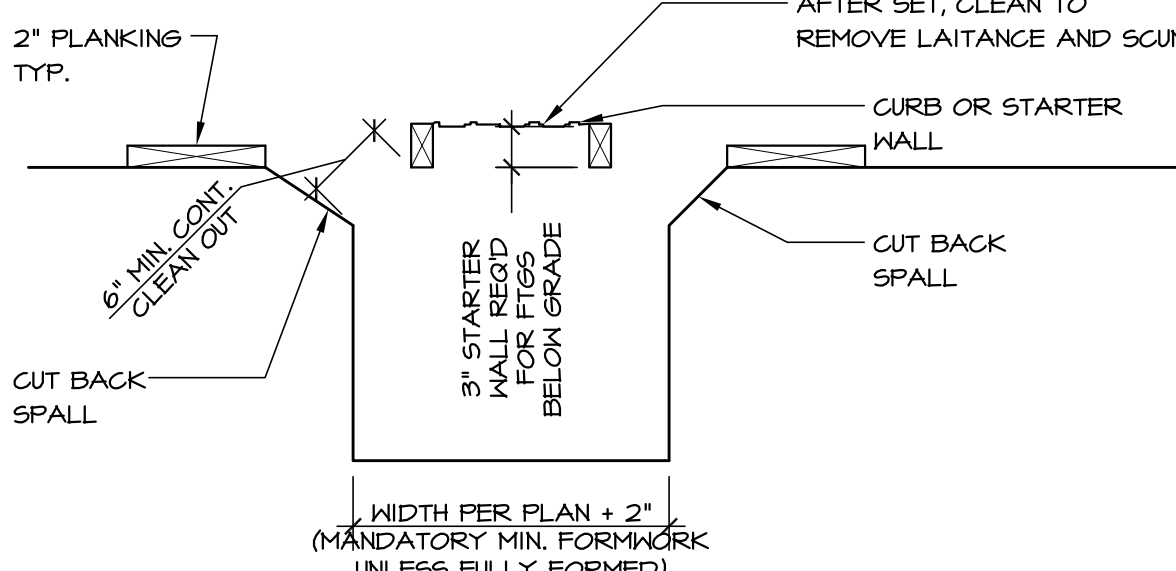


- NOTES:**
- STEP FOOTINGS WHERE SHOWN ON PLANS, AND AS REQUIRED TO MAINTAIN MINIMUM FOOTING DEPTH BELOW GRADE, AND AS REQUIRED TO ACCOMMODATE PIPES PER TYP. PIPE TRENCH DETAILS
 - NOT USED

TYPICAL STEPPED FOOTING

SCALE: NONE

4

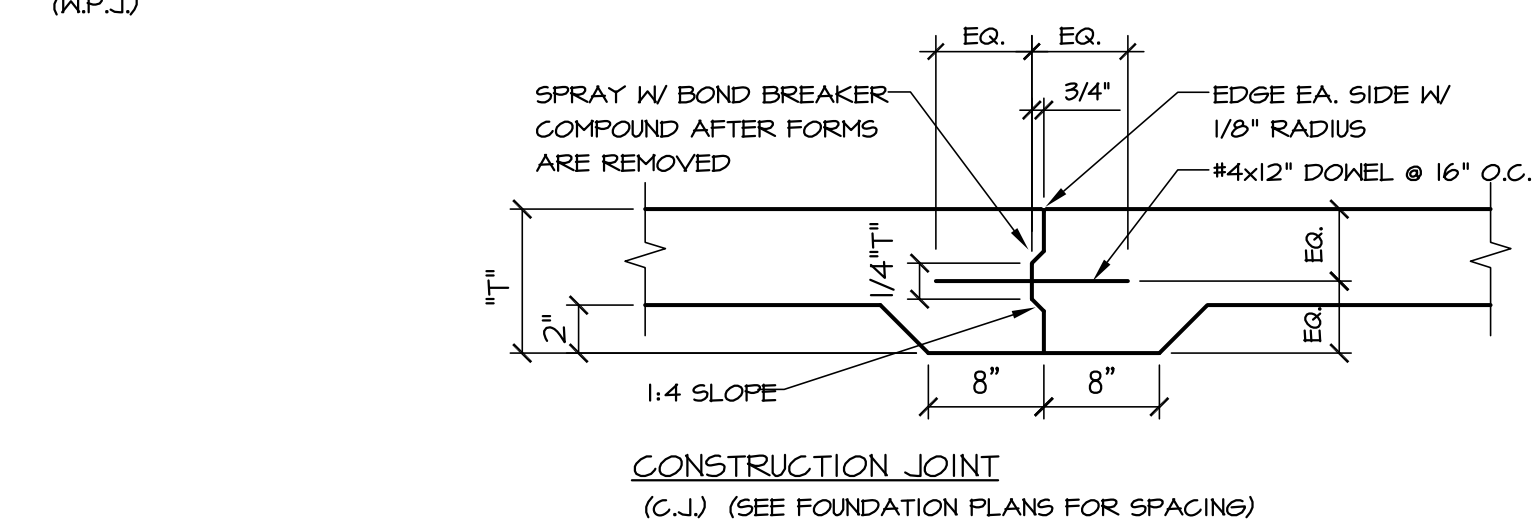
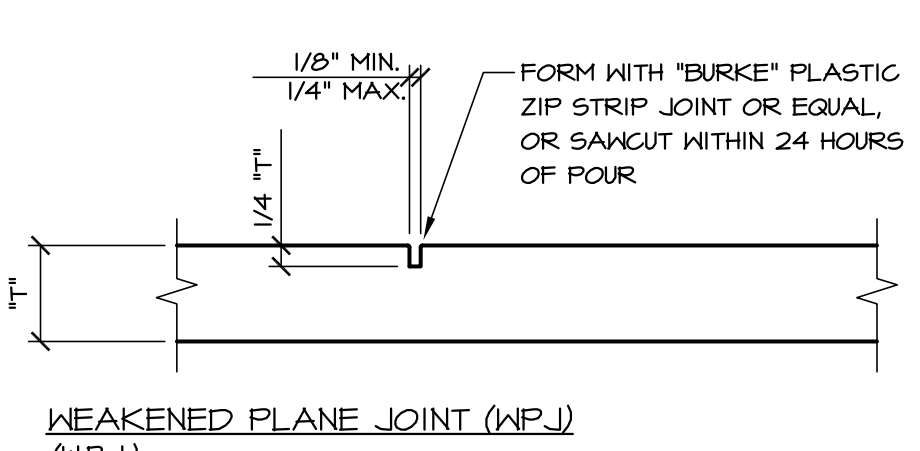


- NOTES:**
- FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER) SUBJECT TO THE APPROVAL OF DIVISION OF DIVISION OF THE STATE ARCHITECT. IN SUCH CASES THE MINIMUM FORMWORK SHOWN ABOVE IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO THE PLACING OF CONCRETE.
 - FORMWORK ARE NOT PERMITTED WITHIN FOOTING SECTION, UNLESS FULLY FORMED.
 - STAKES ARE NOT PERMITTED WITHIN FOOTING SECTION.

TYPICAL MIN. FORMWORK

SCALE: NONE

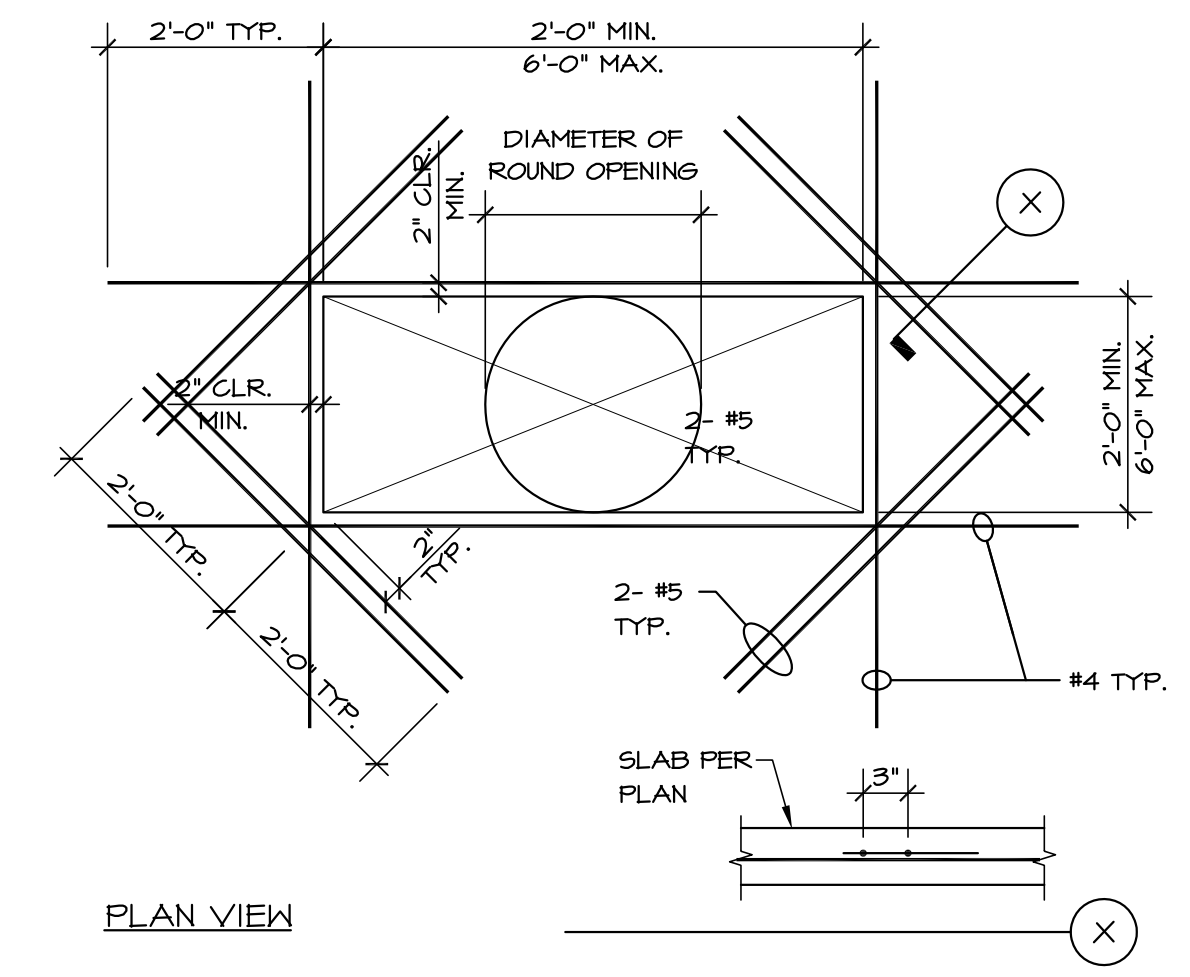
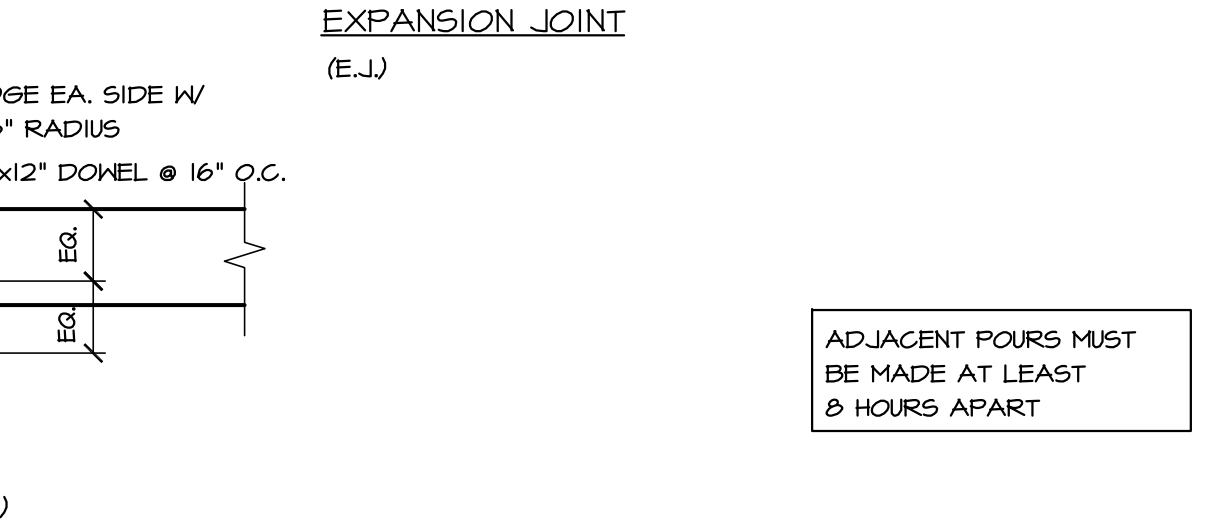
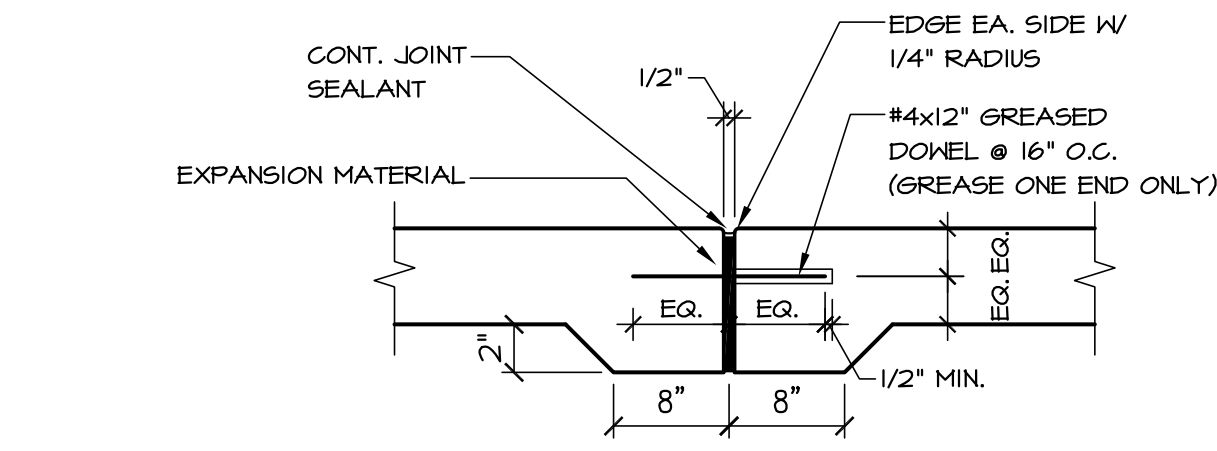
5



TYPICAL SLAB JOINTS

SCALE: NONE

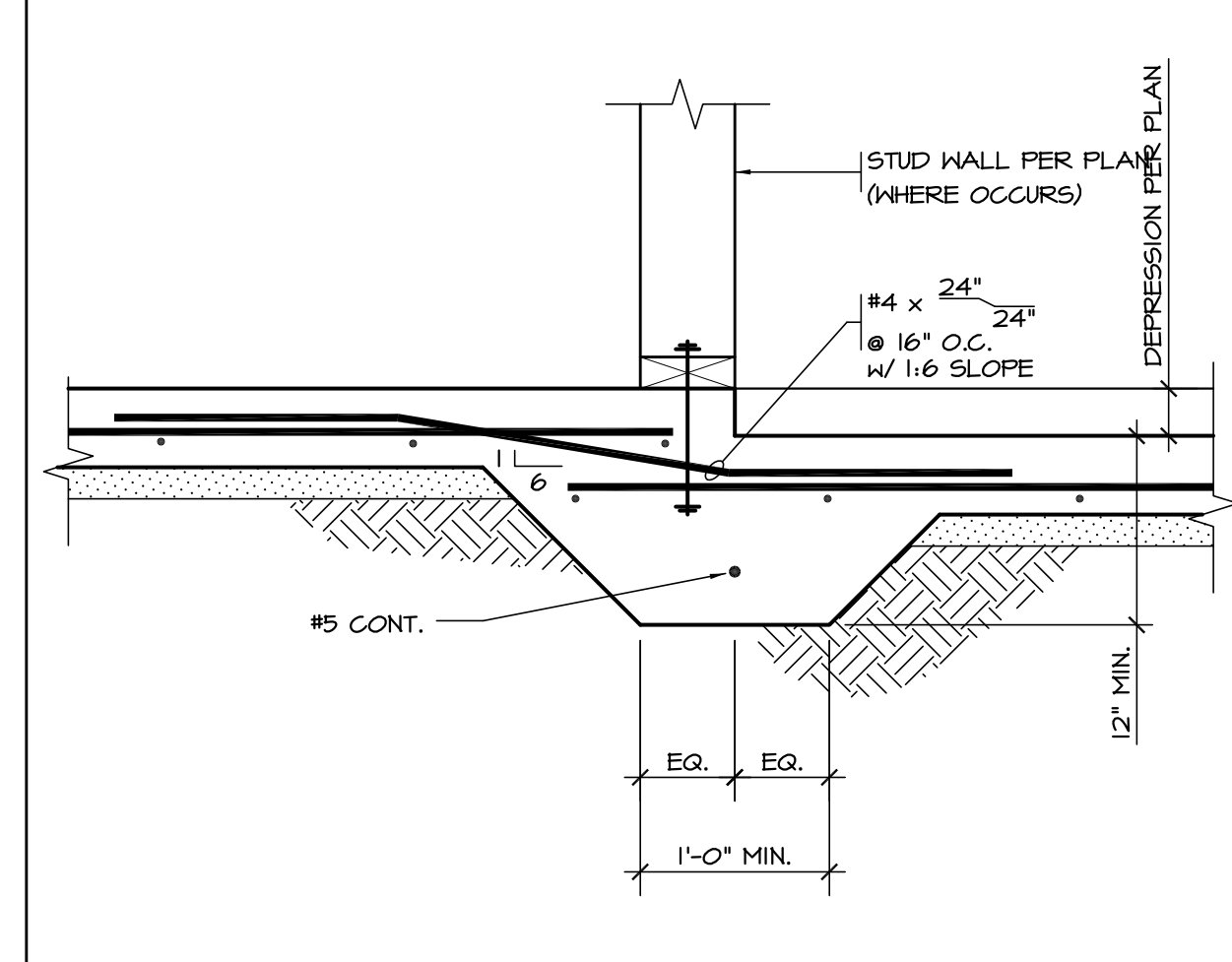
6



TYPICAL OPENING IN SLAB

SCALE: NONE

7

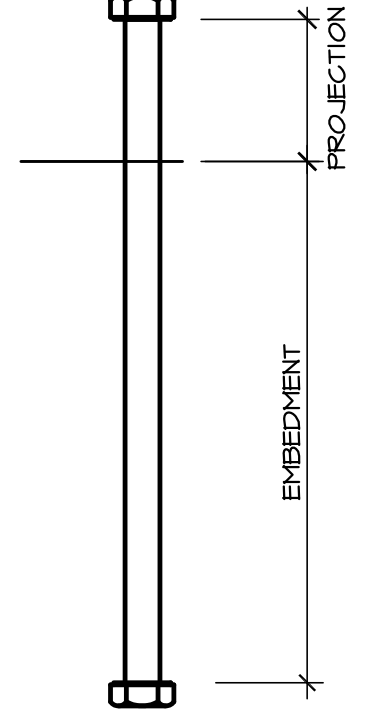


TYPICAL DEPRESSED SLAB

SCALE: NONE

9

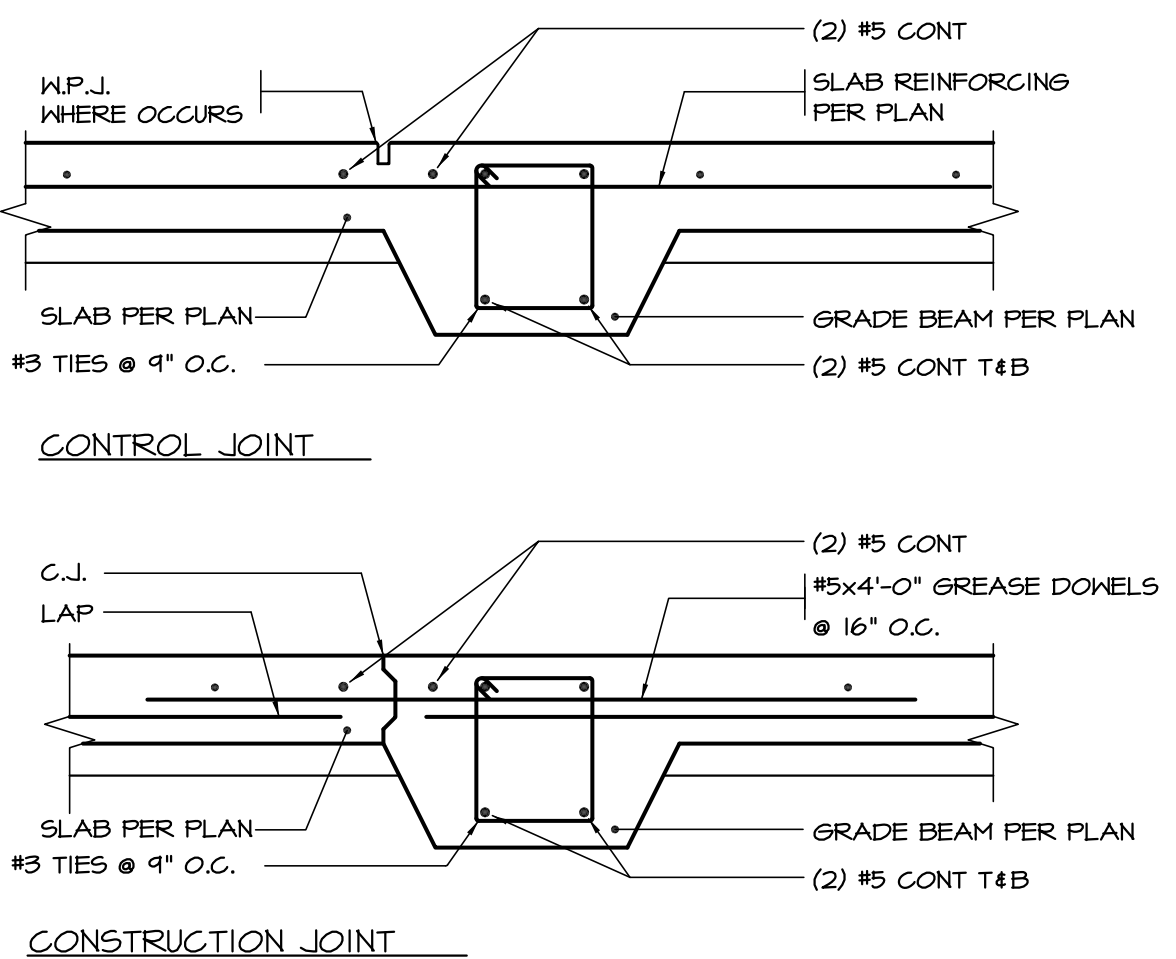
BOLT	EMBEDMENT	MIN PROJECTION
1/2"	4"	4"
5/8"	4 1/2"	4"
3/4"	5"	4"
7/8"	6"	5"
1"	7"	5"
1 1/8"	8"	6"
1 1/4"	9"	6"



TYPICAL AB EMBEDMENT

SCALE: NONE

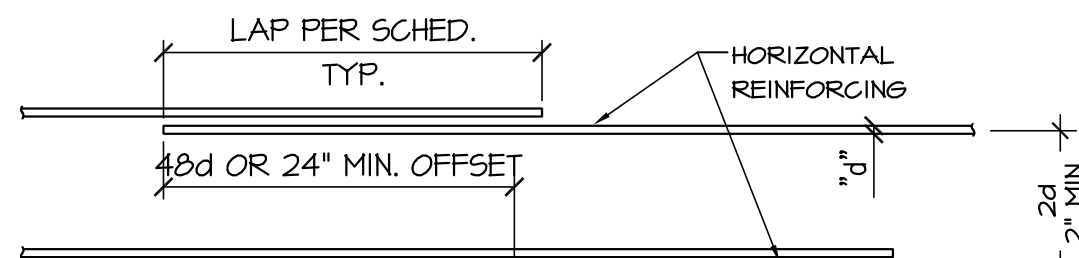
10



CONTROL / CONST. JOINT AT GRADE BEAM

SCALE: NONE

11



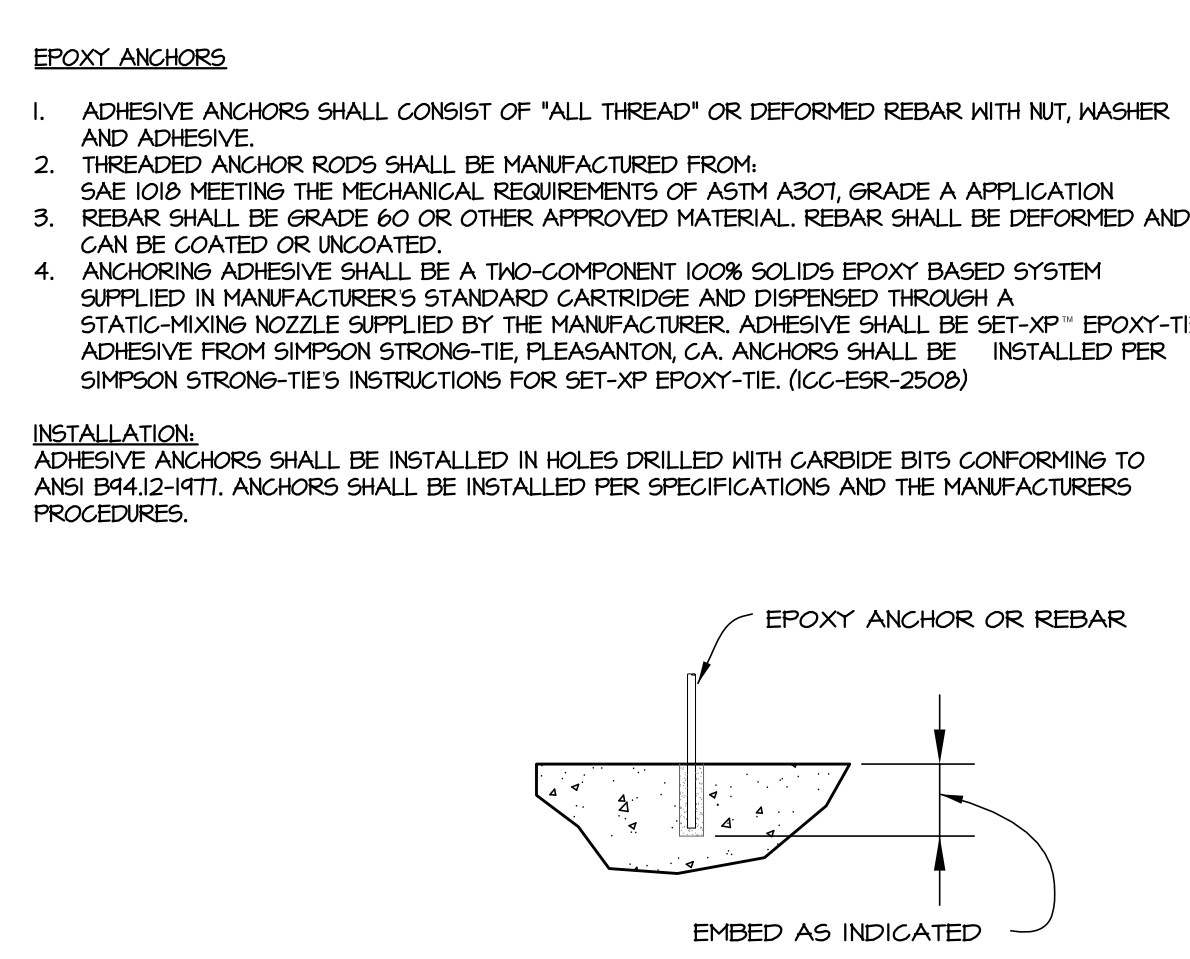
CONC. F.C. P.S.I.	BAR SIZE									
	#3	#4	#5	#6	#7	#8	#9	#10	TENSION LAP SPLICES, INCHES	
4,500	25	33	41	49	64	81	91	103		

- NOTES:**
- SPLICE LENGTH SHALL BE DETERMINED FROM THE SIZE OF THE SMALLER BAR SPLICED.
 - DIVIDE BY 13 FOR NON-TOP BAR (LESS THAN 12" OF FRESH CONCRETE CAST BELOW)
 - CONCRETE MASONRY UNITS LAP 12d MIN. HORIZ & VERTICAL REINFORCING.

CONC. HORIZ. REINF. LAP SPLICE

SCALE: NONE

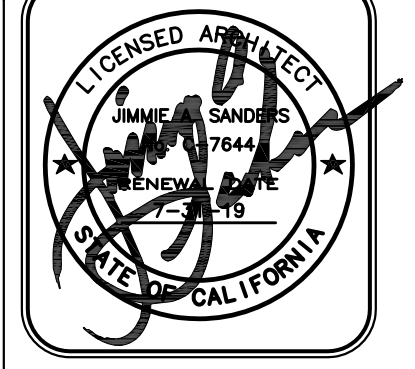
12



TYPICAL EPOXY REBAR DETAIL

SCALE: NONE

13



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Document Date: 04-06-18
Date Last Revised:

Project Title: IMPERIAL COUNTY PUBLIC WORKS
BRAWLEY YARD BUILDING REPLACEMENT
Sheet Title: STRUCTURAL DETAILS

Project Number: 17-010
Sheet Number: S0.2



DESIGN BASIS:
 CODE: 2016 C.B.C. (CALIFORNIA BUILDING CODE TITLE)

BUILDING PAD PREPARATION

A GEOTECHNICAL INVESTIGATION REPORT HAS BEEN ACCOMPLISHED FOR THE SITE. REPORT NO. LE16213 AND APPENDUM #1

SOILS ENGINEER: LANDMARK GEO-ENGINEERS AND GEOLOGISTS
 780 NORTH 4TH STREET
 EL CENTRO CA 92243
 (760) 337-3000

GENERAL CONTRACTOR AND EARTH WORK SUBCONTRACTORS SHALL REVIEW THE SOILS REPORT AND FOLLOW PROPOSED RECOMMENDATIONS.

- PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT FOUNDATION INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
1. THE BUILDING PAD HAS BEEN PREPARED IN ACCORDANCE WITH THE SOILS REPORT
 2. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED,
 3. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT

REINFORCING STEEL:

1. ALL REINFORCING STEEL SHALL BE PLACED IN CONFORMANCE WITH THE C.B.C., AND THE "MANUAL OF STANDARD PRACTICE" BY THE C.R.S.I. OR AS MODIFIED BY THE CONSTRUCTION DOCUMENTS.
2. REINFORCING BARS SHALL CONFORM TO A.S.T.M. A-615, DEFORMED GRADE 60, EXCEPT #3 BARS MAY BE GRADE 40. REINFORCING BARS THAT ARE TO BE WELDED SHALL CONFORM TO A.S.T.M. A-706, DEFORMED GRADE 60.
3. WELDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH A.S.T.M. A-706 WITH LOW HYDROGEN ELECTRODES AND SHALL CONFORM TO U.B.C. STANDARD 14-1 AND STRUCTURAL WELDING CODE REINFORCING STEEL BY A.N.S.I. / A.H.S. D1.4. MINIMUM TENSILE STRENGTH OF WELD METAL SHALL BE 40 K.S.I. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS.
4. ALL REINFORCING BAR BENDS SHALL BE MADE COLD, UNLESS OTHERWISE PERMITTED BY THE BUILDING OFFICIAL.
5. SLAB ON GRADE REINFORCING SHALL BE POSITION AT MID-DEPTH, UNLESS NOTED OTHERWISE.

CONCRETE:

1. ALL CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF A.C.I. 318-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS CONTAINED HEREIN OR SHOWN ON THE DRAWINGS.
2. ALL CONCRETE SHALL BE 150 P.C.F. HARDROCK, MIXED PER A.S.T.M. C-44, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT 28 DAYS.
3. THE MAXIMUM SIZE AGGREGATE IN FOUNDATION AND MASS CONCRETE WORK SHALL BE 1 INCH. THE MAXIMUM SIZE AGGREGATE IN SLABS ON GRADE, WALLS, AND ALL OTHER CONCRETE SHALL BE 3/4" INCH.
4. CEMENT SHALL CONFORM TO A.S.T.M. C-150, TYPE II OR V. LOW ALKALI. AGGREGATES FOR NORMAL WEIGHT SHALL CONFORM TO A.S.T.M. C-33.
5. ADMIXTURES AND COLORS (EXCEPT AS NOTED HEREIN) SHALL NOT BE USED UNLESS SUBSTANTIATING DATA IS SUBMITTED TO AND ACCEPTED BY THE ENGINEER AND ARCHITECT OF RECORD.
6. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY. THE MIX DESIGN SHALL CONFORM TO C.B.C. SEC. 1905 AND ACI SECTION 5.6.5 UNLESS NOTED OTHERWISE.
7. NON-STRUCTURAL STEEL EMBEDDED IN CONCRETE SHALL BE GALVANIZED OR PAINTED. ALL DAMAGED GALVANIZED AREAS SHALL BE REPAIRED PRIOR TO EMBEDMENT.
8. PROVIDE 2" #5 DIAGONAL BARS AT CORNERS OF WALL, FLOOR, AND ROOF OPENINGS AND INSIDE CORNERS OF FLOORS.
9. PROVIDE WATER STOPS IN ALL BELOW GRADE FOUNDATION WALL CONSTRUCTION JOINTS.
10. READY MIXED CONCRETE SHALL CONFORM TO (A.S.T.M. C-94).
11. PLACEMENT OF CONCRETE SHALL CONFORM TO A.C.I. 304. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE FOR ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED.
12. ALL EXPOSED CONCRETE SHALL HAVE A SMOOTH FORM FINISH USING B-B PLYFORM/CLASS I, EXT-A.F.A. PLYWOOD.
13. ALL SLABS SHALL HAVE A TROWELED FINISH EXCEPT AS NOTED ON THE DRAWINGS.
14. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
15. IF THE CONTRACTOR DESIRES TO MAKE ANY CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON THESE DRAWINGS, HE SHALL SUBMIT DETAILS OF CHANGES TO THE ENGINEER OR ARCHITECT OF RECORD FOR REVIEW BEFORE STARTING WORK.
16. NO BRICK OR POROUS MATERIAL SHALL BE USED TO SUPPORT FOUNDATION STEEL OFF THE GROUND.
17. PROVIDE 3/4 INCH CHAMFER ON ALL EXPOSED CONCRETE CORNERS, U.N.O.
18. SLEEVE PLUMBING OPENINGS IN SLABS WITH NON-CORROSIVE SLEEVE BEFORE PLACING CONCRETE AND BEND REINFORCING AROUND SLEEVES.
19. ALL REINFORCING BARS SHALL BE PROVIDED WITH THE FOLLOWING CONCRETE MINIMUM COVER:

FOOTINGS CAST AGAINST EARTH.....	3"
FORMED CONCRETE EXPOSED TO EARTH OR WEATHER.....	2"
BEAMS AND GIRDERS.....	1 1/2"
WALLS.....	1 1/2"
COLUMN TIES.....	1 1/2"
SLABS (11/2" AND SMALLER).....	3/4"

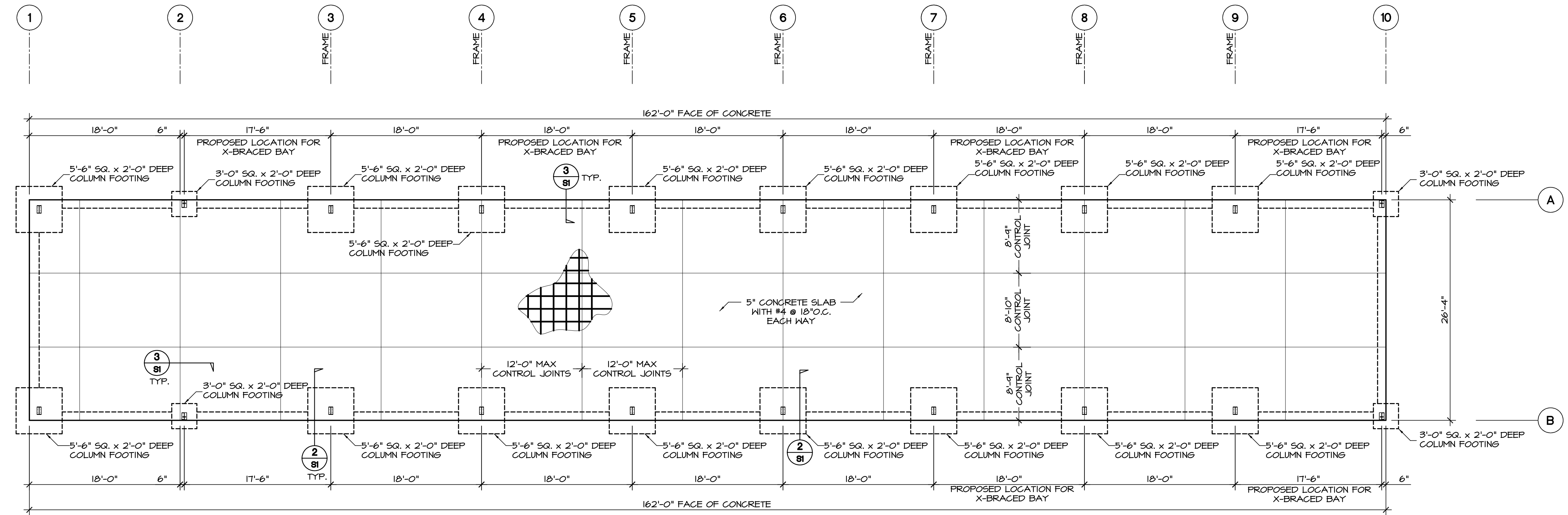
 IF A MINIMUM OF 3" CONCRETE COVER IS NOT POSSIBLE, REINFORCING BARS MUST BE EPOXY DIPPED
20. CONCRETE CURING: TYPICALLY REQUIRED FOR 10 DAYS.
21. SAW CUT LINES AS SHOWN ON PLANS 3/4" DEEP CONTROL MAX. TO BE SAW CUT IMMEDIATELY AFTER FINISHING SLAB.

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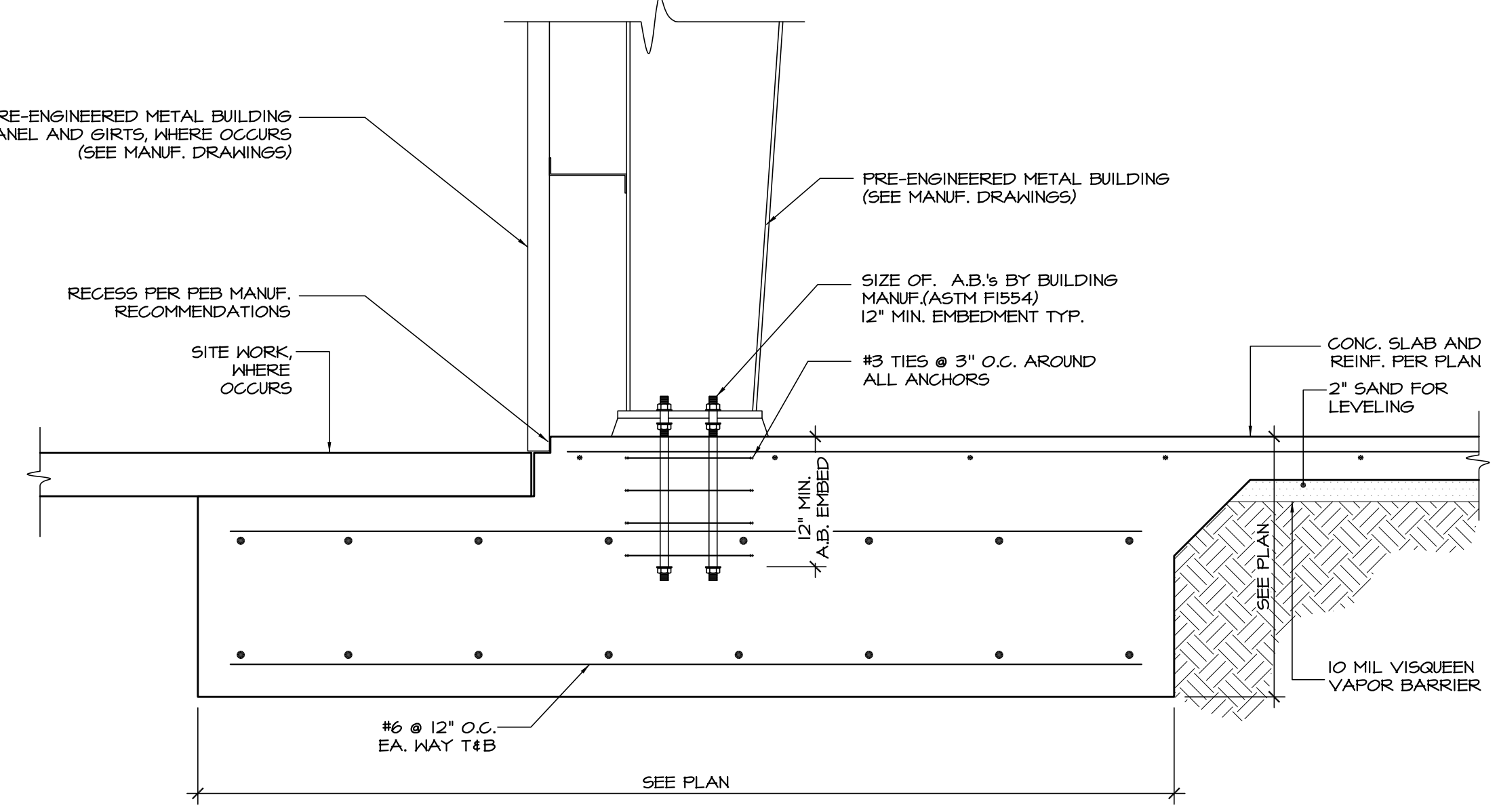
Project Title: IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT
 Sheet Title: FOUNDATION PLAN, DETAILS

Project Number: 17-010
 Sheet Number: S1



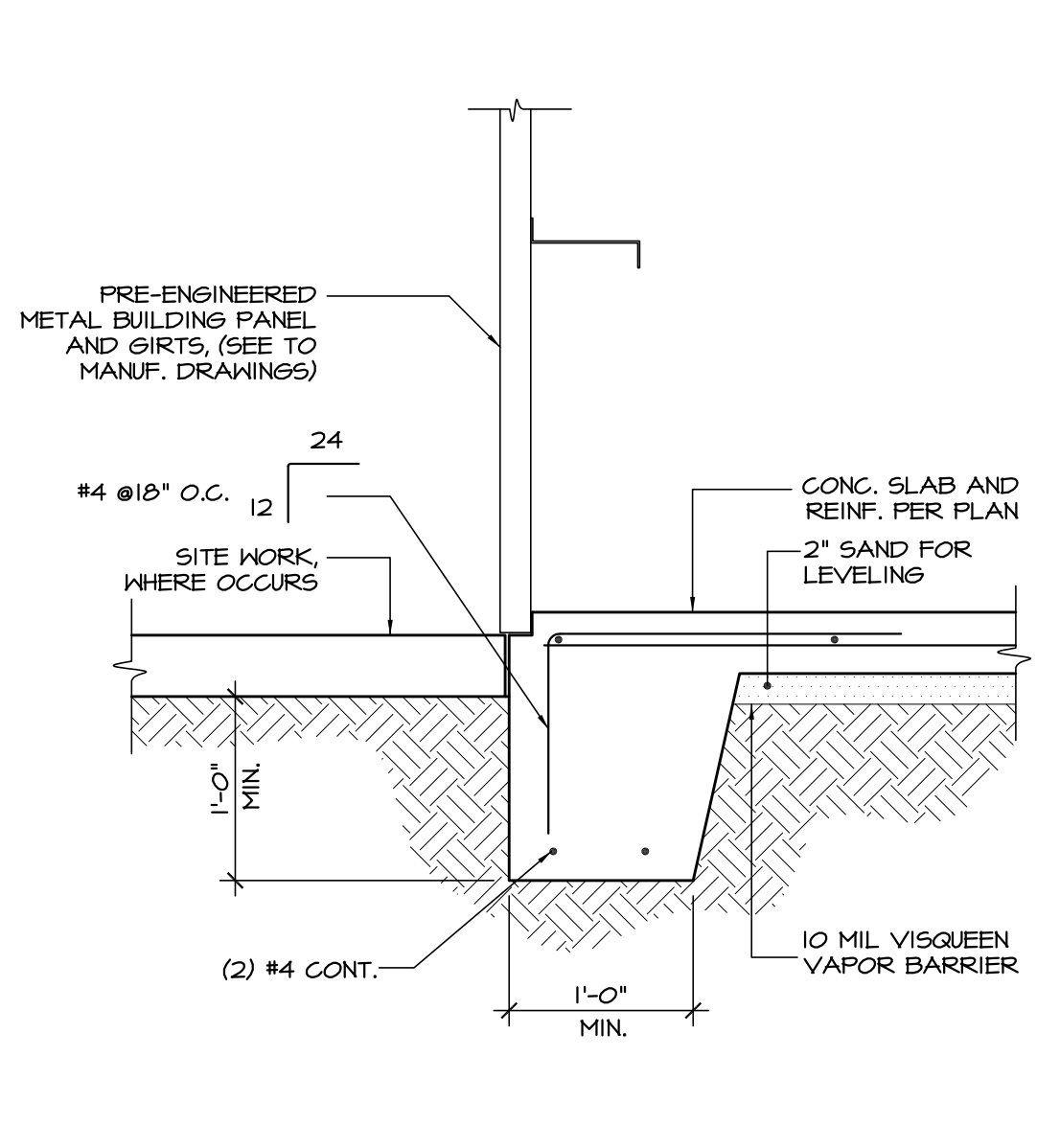
FOUNDATION PLAN

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



COLUMN SPREAD FOOTING DETAIL

SCALE: 3/8"=1'-0" 2



PERIMETER FOOTING DETAIL

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

LEGEND

- (X) CALLS OUT FOR FOOTING DETAIL NUMBER ON FOOTING CALCULATIONS

CONCRETE BASEMENT INFILL:

AFTER REMOVAL OF THE CONCRETE BASEMENT, THE EXCAVATION SHOULD BE BACKFILLED WITH SOIL SIMILAR TO THE NATIVE SITE SOILS. THE BACKFILL SHOULD BE PLACED IN MAXIMUM 8-INCH LIFTS (LOOSE), UNIFORMLY MOISTURE CONDITIONED TO 5 TO 10% ABOVE OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO 85 TO 90% OF THE MAXIMUM DENSITY DETERMINED IN ACCORDANCE WITH ASTM D1557 METHODS. COMPACTION TESTING SHOULD BE COMPLETED FOR EACH 1 FOOT COMPACTED LIFT.

PIPE SCHEDULE

SERVICE	LOCATION	PIPE TYPE											FITTINGS	NOTES	
		TYPE K COPPER	TYPE L COPPER	TYPE M COPPER	DRY COPPER	1/2" HUB CAST IRON	ABS DWV	SCH 40 PVC	SCH 40 ABS	BLACK STEEL	EMERALD GALV STEEL	SCH 40 EQUIV. POLYPROP			PE 3046 SDR 11/15
WATER	ABV GRADE	●												WROT COPPER SOLDER	1-4
	BEL GRADE													SOLVENT CEMENT PVC	4
WASTE & VENT	ABV GRADE				●									Z BAND NO - HUB COUPLINGS	
	BEL GRADE				●									SOLVENT CEMENT - ABS	4-5
RAINWATER	ABV GRADE				●									Z BAND NO - HUB COUPLINGS	
	BEL GRADE				●									SOLVENT CEMENT - ABS	4-5
FUEL GAS	ABV GR-INT													MALLEABLE THREADED	
	ABV GR-EXT													MALLEABLE THREADED GALV	
AC COND DRAIN	INTERIOR	●												WROT COPPER SOLDER	6-7
	EXTERIOR	●												WROT COPPER SOLDER	7
INDIRECT DRAIN	INTERIOR	●												WROT COPPER SOLDER	
	EXTERIOR	●												WROT COPPER SOLDER	

NOTE: 1) INSULATE HOT WATER w/ 1" FIBERGLASS PIPE INSUL w/ ASJ & FITTING COVERS. 2) LEAD FREE SOLDER. 3) PIPING BEL FLOOR TO BE SOFT TEMPER w/ NO JOINTS BEL FLOOR. 4) HUB & SLAB PENETRATIONS. 5) SLOPE PIPING @ 1/4" (2%) PER FOOT; OBTAIN BUILDING OFFICIAL PERMISSION FOR 1/8" (1%) SLOPE. 6) INSULATE w/ 3/8" WALL FOAMED PLASTIC PIPE INSULATION. 7) SLOPE PIPING @ 1/8" (1%) PER FOOT MIN.

LEGEND:

ABBR	SYMBOL	DESCRIPTION
CW	—	COLD WATER PIPING
HW	—	HOT WATER PIPING
HWR	—	HOT WATER RETURN PIPING
G	—G—	NATURAL GAS PIPING
V	—	SANITARY VENT PIPING
S or W	—	WASTE/SEWER PIPING BELOW GRADE
S or W	—	SOIL or WASTE ABOVE GRADE
CD	—CD—	CONDENSATE DRAIN PIPING
D	—D—	INDIRECT DRAIN PIPING
SD	—SD—	STORM DRAIN PIPING
OD	—OD—	OVERFLOW STORM DRAIN PIPING
FS	■	FLOOR SINK
FD	⊙	FLOOR DRAIN
RD / OD	⊙	ROOF DRAIN / OVER FLOW DRAIN
WCO	⊕	WALL CLEAN-OUT w/ ACCESS PANEL
FCO	⊕	FLOOR CLEAN-OUT
COTG	⊕	CLEAN-OUT TO GRADE
P & TRV	⊕	PRESS & TEMP RELIEF VALVE
SOV	⊕	SHUT OFF (BALL) VALVE (IN RISER)
SOV	⊕	SHUT OFF (BALL) VALVE (IN-LINE)
CV	⊕	CHECK VALVE
STR	⊕	STRAINER
BFP	⊕	RED PRESSURE BACKFLOW PREVENTER
	—	UNION
	—	CAP
HB	⊕	HOSE BIBB
POC	⊕	POINT OF CONNECTION
VTR	⊕	VENT THRU ROOF
UG	⊕	UNDER GROUND
B/F	⊕	BELOW FLOOR
A/C	⊕	ABOVE CEILING
UTR	⊕	UP THROUGH ROOF
YB	⊕	YARD BOX
WHA	⊕	WATER HAMMER ARRESTOR
AP	⊕	ACCESS PANEL
UNO	⊕	UNLESS NOTED OTHERWISE
GW	—GW—	GREASE WASTE
AW	—AW—	ACID WASTE
AV	—AV—	ACID VENT

GENERAL NOTES:

- THESE DRAWINGS ARE A DIAGRAMMATIC REPRESENTATION OF THE PLUMBING WORK TO BE ACCOMPLISHED AND AS SUCH ARE NOT INTENDED TO SHOW ALL REQUIRED OFFSETS OF PIPING. THE PLUMBING CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT SO AS TO CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, AND MAINTAIN HEADROOM AND PASSAGEWAYS.
- ALL LOCATIONS, POINTS-OF-CONNECTION, INVERTS, SIZES, AND AVAILABILITY OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE PLUMBING CONTRACTOR PRIOR TO THE COMMENCEMENT OF THE INSTALLATION.
- THE PLUMBING CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES PRIOR TO COMMENCEMENT OF THE PLUMBING INSTALLATION.
- ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ALL APPLICABLE CODES, INCLUDING TITLE 24 CCR.
- WHERE PLUMBING PENETRATES AREA SEPARATION WALL SURFACES, THE SECTION PASSING THROUGH THE WALL SURFACE AND CONNECTED TO THE ATTACHED FIXTURE SHALL BE ONLY OF METAL.
- FOR MINIMUM PLUMBING FIXTURE CLEARANCES AND ELEVATIONS SEE ARCHITECTURAL DRAWINGS.
- WATER HEATER/BOILER WILL COMPLY WITH SECTION 608.3, 2013 C.P.C. FOR THERMAL EXPANSION REQUIREMENTS AND WITH SECTION 510.5, 2013 C.P.C. FOR SEISMIC RESTRAINT REQUIREMENTS.
- STATE HEALTH AND SAFETY CODE SECTION 17421.9 BANS THE USE OF CHLORINATED POLYVINYL CHLORIDE (CPVC) FOR INTERIOR WATER-SUPPLY PIPING.
- FLAME SPREAD / SMOKE SPREAD FOR ALL PIPE INSULATION SHALL BE 25/50 MAX.
- FOR ALL THROUGH-PENETRATION FIRESTOP DETAILS SEE SHEET AX53

TITLE 24 NOTES:

- PIPING SHALL BE INSULATED CONSISTENT WITH THE REQUIREMENTS OF CALIFORNIA ADMINISTRATIVE CODE, T24, SECTIONS 110, 123, & 124 E.E.S.
- PLUMBING EQUIPMENT REQUIRING CERTIFICATION, AS IDENTIFIED IN THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, SECTIONS 11-113, 115 & 120-124 E.E.S., SHALL BE CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE G.E.C.'S APPLIANCE EFFICIENCY STANDARDS. CERTIFICATES OF COMPLIANCE SHALL BE PROVIDED AS PART OF THE EQUIPMENT SUBMITTALS.
- SERVICE WATER HEATING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF T24 CALIFORNIA ADMINISTRATIVE CODE.

ENERGY AND WATER CONSERVATION NOTES:

- TOILETS SHALL BE ULTRA LOW FLUSH TYPE, 1.6 GPF MAX.
- URINALS SHALL BE 1.0 GPF MAX.
- SINK FAUCETS TO BE 2.2 GPM MAX.
- LAVATORY FAUCETS IN PUBLIC RESTROOMS SHALL BE THE SELF-CLOSING TYPE.
- PROVIDE VACUUM BREAKERS AT HOSE BIBBS.

DESIGN CRITERIA:

- MEP COMPONENT ANCHORAGE NOTE**
- ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS WHERE NO DETAIL IS INDICATED. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE OF DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2013 CBC, SECTIONS A.1.3 THROUGH A.1.26 AND ASCE T-10 CHAPTER 20 & 13.
 - ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

- THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.
 - COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 - COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEERING OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BRACED TO COMPLY WITH FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE T-10 SECTION 13.3 AS DEFINED IN ASCE T-10 SECTION 13.6.2, 13.6.7, 13.6.5.6 AND 2013 CBC, SECTIONS 1615A.1.20, 1615A.1.21 AND 1615A.1.22
- THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS (OPAW) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.
- COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS.
- THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

PLASTIC PIPE IN PLUMBING SYSTEMS:

- APPROPRIATE PLASTIC PIPE MAY BE USED FOR VENT PIPING IN BUILDINGS. IT MAY BE USED FOR WASTE LINES IN PORTABLE BUILDINGS ONLY. IT MAY BE USED FOR DRAINS CARRYING ACID WASTE LABORATORIES. IT SHALL NOT BE USED FOR WATER DISTRIBUTION LINES WITHIN A DISTANCE OF 5 FEET OUTSIDE OF BUILDINGS.
- PLASTIC PIPE OF THE APPROPRIATE CLASS MAY BE USED UNDERGROUND OUTSIDE OF BUILDINGS FOR CARRYING GAS AND DRAINAGE WASTE.
- PLASTIC CONDUIT AND INSULATION MAY BE USED WHERE PERMITTED IN TITLE 24.

PLUMBING FIXTURE SCHEDULE:

- WATER CLOSET, FLOOR MOUNTED, ACCESSIBLE**
TOILET - ZURN #5665-BHL ELONGATED "ECO-VANTAGE", 1.28 GPF VALVE - ZURN #ZER600AV-HET-CFM SENSOR BATTERY OPERATED FLUSH VALVE SEAT - ZURN #2545555 -EL OFLC
- LAVATORY, WALL HUNG**
BASIN - ZURN #25340, 20" x 18" SINGLE HOLE DRILLING FAUCET - ZURN #26415-XL-N-SENSOR, BATTERY POWERED, 0.5 GPM LAMINAR FLOW STRAINER - CHROME PLATED GRID DRAIN SUPPORT - ZURN #21231 CONCEALED ARM SYSTEM ACCESSORY - LEONARD #110-LF LEAD FREE THERMOSTATIC MIXING VALVE SET AT 105 F.
- FLOOR DRAIN**
DRAIN - ZURN #2-415 w/ 1/4" MAX STRAINER OPENINGS IN ALL DIRECTIONS ACCESSORY - TRAP PRIMER INLET
- HOSE BIBB w/ VACUUM BREAKER**
BIBB - ACORN #8121 FINISH - ROUGH CHROME
- EYE/FACE WASH STATION**
BOWL - 11" ROUND GREEN ABS PLASTIC RECEPTOR ZERO VERTICAL VELOCITY, INTEGRAL 3" FLOW CONTROL, CHROME-PLATED BRASS STAY-OPEN BALL VALVE EQUIPPED WITH STAINLESS STEEL BALL & STEAM, CHROME-PLATED BRASS IN-LINE 50 x 50 MESH WATER STRAINER, CAST-ALUMINUM CHROMATE PROTECTED WALL BRACKET, YELLOW PLASTIC POP-OFF DUST COVER, UNIVERSAL SIGN, 1/2" NPT INLET, & 1-1/4" NPT WASTE.
- WATER HEATER, ELECTRIC, STORAGE TYPE, TANKLESS ELECTRIC**
HEATER - RHEEM #RTEX-18 3.0GPM TANKLESS ELECTRIC WATER HEATER - SINGLE POINT OF USE DESCRIPTION - 240V 2 HEATING CHAMBERS ELECTRICAL - 10KW 15AMPS 240V WIRE SIZE 8AWG BREAKER (2X40A) ACCESSORIES: IN-LINE FLOW REGULATOR OPERATING HEIGHT (FULL) - 15 LBS



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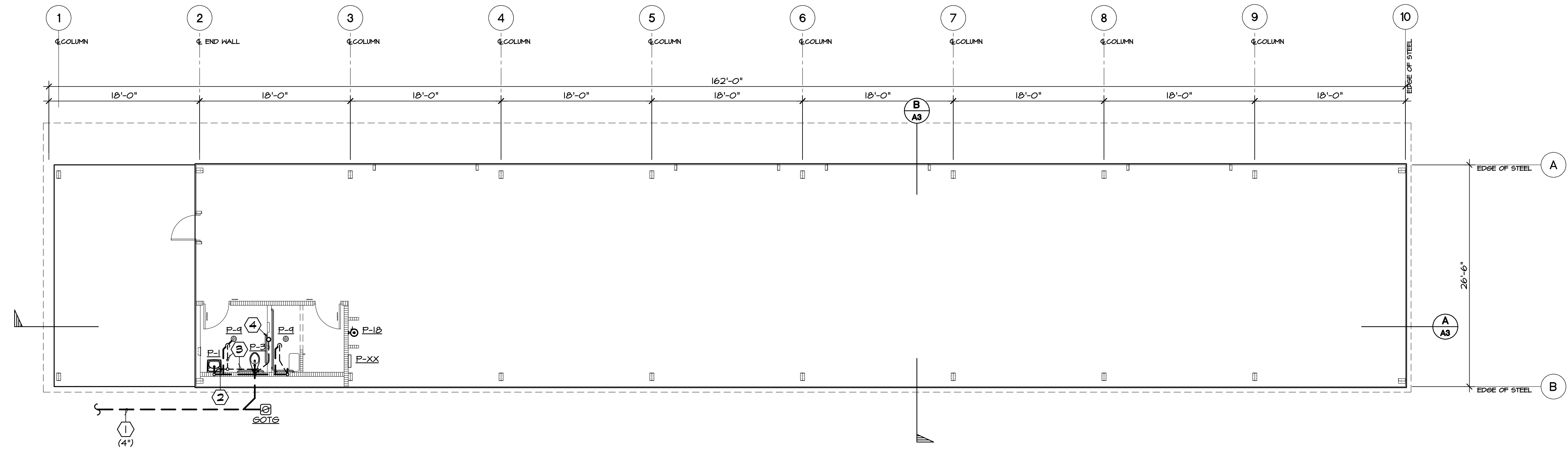
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Project Title
IMPERIAL VALLEY PUBLIC WORKS
BRAWLEY YARD BUILDING REPLACEMENT

Sheet Title
LEGEND AND NOTES

Project Number
17-0100

Sheet Number
P01



WASTE AND VENT KEYNOTES:

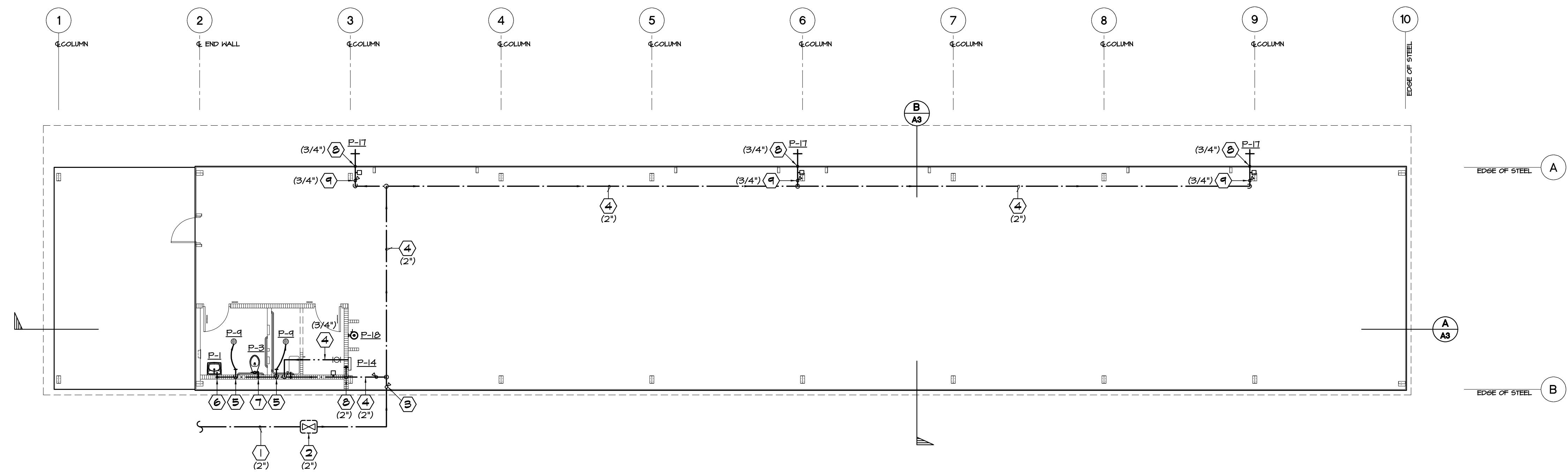
- ① SOIL / WASTE PIPING BF - SLOPE @ 1/4" PER FOOT. VERIFY EXACT ROUTE (SIZE NOTED)
- ② 4" x 2" V (TYP @ P-1b)
- ③ 2" x 2" V (TYP @ P-3, P-4)
- ④ 2" VENT THROUGH ROOF-MAINTAIN MIN. 10'-0" CLEAR TO HVAC UNIT OSA INTAKE

NOTES:

- 1. ALL SEWER AND WASTE PIPING SHALL SLOPE @ 1/4" PER FOOT MIN.
- 2. FIELD VERIFY ALL P.O.C.'S, DEPTHS, SIZES, ETC.
- 3. FIELD VERIFY EXISTING CONDITIONS, CONNECT TO EXISTING SEWER LINE
- 4. FOR CLEAN OUT INSTALLATION, SEE ① P10

WASTE AND VENT

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

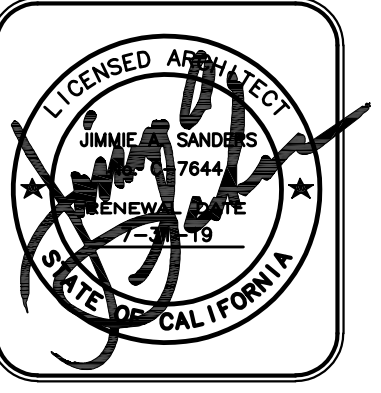


NOT AND COLD WATER KEYNOTES:

- ① CW (SIZE NOTED), CONNECT TO NEAREST EXISTING U.G. WATER LINE
- ② SOV (BALL TYPE) IN YARD BOX WITH COVER MARKED "WATER"
- ③ CW UP TO ABOVE CEILING W/ SOV +48" AFF
- ④ PIPING OVER HEAD - SIZE NOTED
- ⑤ TRAP PRIMER W/ AP - ROUTE 1/2" SOFT COPPER CW B/F (NO JOINTS B/F)
- ⑥ 1 1/4" C.H. (TYP. @ P-1b, P-2b)
- ⑦ 1/2" C.H. (TYP. @ P-3b)
- ⑧ C.H. DOWN IN WALL TO FIXTURE (SIZE NOTED)
- ⑨ C.H. SOV - SIZE NOTED

HOT AND COLD WATER

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



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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
WASTE-VENT, HOT/COLD WATER

Project Number	17-0100
Sheet Number	P1.0

LIGHTING/SWITCHING SYMBOLS

	LIGHTING CONTROL PANEL. SEE CONTROL DETAIL AND SCHEDULES FOR MORE INFORMATION.
	PUSH BUTTON LOW VOLTAGE OVERRIDE CONTROL SWITCH
	ZONE CONTROLLED (UPPER CASE LETTER DENOTES ZONE CONTROLLED)
	SWITCH LEG CONTROLLED (LOWER CASE LETTER DENOTES SWITCH LEG CONTROLLED)
	SWITCH, SINGLE POLE 20A, MTD, 48" AFF TO TOP. DESIGNATION TO CONTROL LIGHTING IN CIRCUIT LESS. DEVICE: WHITE COVERPLATE: WHITE
	2- DOUBLE POLE K - KEYPAD SWITCH
	3- THREE WAY T - MANUAL MOTOR STARTER WITH THERMAL OVERLOADS
	4- FOUR WAY D - LOAD RATED DIMMER
	PL - PILOT LIGHT PB - PUSHBUTTON
	WALL MOUNTED MOTION CONTROLLED LIGHTING SWITCH WITH INTEGRAL BI-LEVEL SWITCHING. DEVICE - WHITE MTD, 48" AFF TO TOP.
	WALL MOUNTED MOTION SENSOR/MANUAL SWITCH-RAISE/LOWER/ON/OFF DEVICE - WHITE MTD, 48" AFF TO TOP.
	CEILING MOUNTED ULTRASONIC MOTION SENSOR. DEVICE: WHITE
	WALL MOUNTED DUAL-TECHNOLOGY MOTION SENSOR. DEVICE: WHITE
	FIXTURE CALLOUT: TYPE (SEE LIGHT FIXTURE SCHEDULE) WATTAGE QUANTITY
	RELAY
	TIME CLOCK
	MOTION SENSOR POWER PACK
	EMERGENCY POWER OFF PUSHBUTTON, MOUNTED AT 48" UON.
	PHOTOCCELL

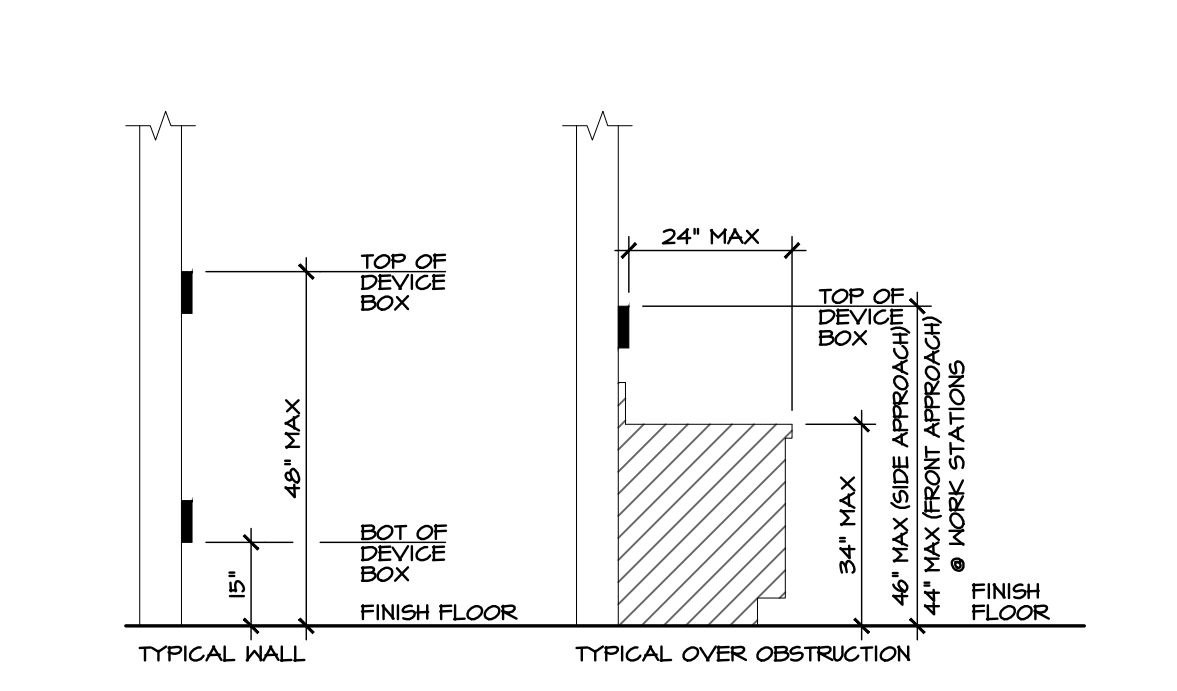
TEL/DATA SYMBOLS

	DATA OUTLET WITH TRIM RING, PULLSTRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER.
	TELEPHONE OUTLET WITH TRIM RING, PULLSTRING TO ACCESSIBLE CEILING SPACE. +18" A.F.F. TO CENTER.
	TELECOMMUNICATIONS OUTLET WITH TRIM RING, PULLSTRING TO ACCESSIBLE CEILING SPACE +18" A.F.F. TO CENTER.
	TELECOMMUNICATION OUTLET FLUSH FLOOR MOUNTED ON FIRE RATED POKE-THRU.
	SPEAKER BACK BOX LOCATION
	INTERCOM J-BOX LOCATION
	ELECTROMAGNETIC DOOR HOLDER
	INTERCOM LOCATION
	CARD READER
	ELECTRIC DOOR STRIKE
	3/4" FIRE RATED PLYWOOD BACKBOARD WITH #8AWG GROUND TO BUILDING SYSTEM GROUND.
	CABLE TRAY PER PLANS. COORDINATE ROUTING WITH OTHER DISCIPLINES.

GENERAL NOTES

- ALL ELECTRICAL DEVICES AND UTILIZATION EQUIPMENT SHALL BE LISTED BY AN APPROVED TESTING AGENCY.
- ALL WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE.
- USE COPPER CONDUCTORS ONLY.
- THERMOSTATS, SWITCHES AND/OR RECEPTACLES INSTALLED IN RESTROOMS OR OTHER AREAS EQUIPPED FOR THE DISABLED, SHALL BE LOCATED AT NOT TO EXCEED 48" TO CENTER OF DEVICE FROM THE FLOOR.
- CONTRACTOR IS TO VERIFY MOUNTING HEIGHTS OF ALL DEVICES PRIOR TO MOUNTING
- VERIFY ROUTING OF ANY SURFACE MOUNTED CONDUITS PRIOR TO INSTALLATION
- REVIEW ALL PLANS BY OTHER TRADES AND PROVIDE ADDITIONAL WORK AS REQUIRED NOT OUTLINED IN THESE DOCUMENTS
- COORDINATE ALL DIMMING FLUORESCENT BALLASTS WITH DIMMING SYSTEM, PROVIDE WIRE COUNT AS REQUIRED. USE ADVANCE MARK X BALLASTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE MULTI-POLE CIRCUIT BREAKERS WITH COMMON TRIP OR U.L. LISTED HANDLE TIES FOR ALL MULTI-POLE CIRCUITS WITH SHARED NEUTRAL.

TYPICAL MOUNTING HEIGHTS NO SCALE



POWER SYMBOLS

	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX.
	DUPLX RECEPTACLE MTD 18" AFF TO CENTER COVERPLATE COLOR: WHITE DEVICE TYPE DEVICE COLOR STANDARD WHITE
	ISOLATED GROUND ORANGE
	DEDICATED 20A RATED GRAY
	15A OR 20A UPS GRAY
	EMERGENCY RED
	TAMPER RESISTANT WHITE
	6FI DUPLX RECEPTACLE MTD 18" AFF TO CENTER COVERPLATE COLOR: WHITE
	6FI DUPLX WEATHERPROOF RECEPTACLE MTD 18" AFF TO CENTER. USE "IN USE" TYPE COVER PLATES
	DOUBLE DUPLX RECEPTACLE MTD 18" AFF TO CENTER. SCHEDULE AS NOTED ABOVE.
	SPLIT WIRED 15A 1/2 HOT, 1/2 SWITCHED OUTLET COLOR: WHITE
	DUPLX RECEPTACLE CONTROLLED BY OCCUPANCY SENSOR, MTD 18" AFF TO CENTER. SCHEDULE AS NOTED ABOVE.
	DOUBLE DUPLX RECEPTACLE WITH ONE DUPLX CONTROLLED BY OCCUPANCY SENSOR, MTD 18" AFF TO CENTER, SCHEDULE AS NOTED ABOVE.
	208V/1Ø RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	208V/3Ø RECEPTACLE, NEMA CONFIGURATION AS NOTED.
	FLUSH FLOOR MOUNTED DUPLX RECEPTACLE.
	FLOOR BOX WITH DOUBLE DUPLX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE.
	FLOOR BOX WITH DUPLX RECEPTACLE AND SINGLE GANG TEL/DATA RECEPTACLE.
	SPECIALTY FLOOR BOX PER PLANS MULTIPLE GANG BOX. SEE SPECS.
	PEDESTAL MOUNTED DOUBLE DUPLX RECEPTACLE MANUF: HUBBELL SA6600 1/4"STAINLESS STEEL COVERPLATES
	PEDESTAL MOUNTED DUPLX RECEPTACLE MANUF: HUBBELL SA6600 1/4"STAINLESS STEEL COVERPLATES
	WEATHERPROOF 6FI WORK OUTLET. PROVIDE CAST BOX 1/4"STAINLESS STEEL WP COVER.
	EXTERNALLY OPERATED FUSED DISCONNECT SWITCH. PROVIDE PER NEMA RATING REQUIRED.
	COMBINATION FVNR MAGNETIC MOTOR STARTER AND DISCONNECT RATING AND POLES AS INDICATED. PROVIDE WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS, PROVIDE WITH (1) EACH N.O. AND N.C. AUX CONTACTS.
	FVNR MAGNETIC STARTER WITH OVERLOAD PER HORSEPOWER REQUIREMENTS, CPT, H.O.A. WITH PILOT LIGHTS, PROVIDE WITH (1) EACH N.O. AND N.C. AUX CONTACTS.
	MOTOR PROVIDED BY OTHERS.
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	SURFACE MOUNTED LIGHTING CONTROL PANEL, U.O.N.
	FLUSH MOUNTED LIGHTING DIMMING PANEL, U.O.N.
	FIRE RATED DOUBLE DUPLX POKE THROUGH, SEE DETAILS FOR MORE INFORMATION.
	FIRE RATED SYSTEMS FURNITURE FEED POKE THROUGH, SEE DETAILS FOR MORE INFORMATION.
	CLOCK HANGER OUTLET ONLY, MOUNTED AT 12" U.O.N.
	TELEVISION SYSTEM OUTLET WITH JACK, WALL MOUNTED AT 12" U.O.N.
	MULTI-OUTLET ASSEMBLY, LENGTH AS INDICATED ON PLANS.
	FLEXIBLE CONDUIT
	WIRING OR CONDUIT CONCEALED IN WALL OR CEILING
	WIRING OR CONDUIT EXPOSED
	WIRING OR CONDUIT CONCEALED UNDERGROUND OR IN FLOOR
	RACEWAY OR WIREWAY ASSEMBLY DOWN
	RACEWAY OR WIREWAY ASSEMBLY UP
	HOMERUN TO PANEL, CIRCUITS AS INDICATED.
	UNDERGROUND HOMERUN TO PANEL, CIRCUITS AS INDICATED.
	CONCEALED EMT CONDUIT WITH THIN WIRE 3#12 AWG 3/4" C. MINIMUM
	CONCEALED EMT CONDUIT WITH THIN WIRE 3#12 AWG 3/4" MINIMUM. CHEVRONS INDICATE #10 CONDUCTORS
	FUSED SWITCH, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	CIRCUIT BREAKER, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	TRANSFORMER, SEE SINGLE LINE DIAGRAM FOR MORE INFORMATION.
	CURRENT TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	GROUNDING ELECTRODE
	SMOKE DETECTOR

MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA approved construction documents. Where no detail is indicated, the following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2016 CBC, Sections 1616A.1.18 through 1616A.1.26 and ASCE 7-10, Chapter 13, 26, and 30.

- All permanent equipment and components.
- Temporary or movable equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water.
- Movable equipment which is stationed in one place for more than 8 hours and heavier than 400 pounds or has a center mass located 4 feet or more above the adjacent floor or roof level that directly support the component are required to be anchored with temporary attachments.

The following mechanical and electrical components shall be positively attached to the structure, but the attachment need not be detailed on the plans. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit.

- Components weighing less than 400 pounds and have a center of mass located 4 feet or less above the adjacent floor or roof level that directly support the component.
- Components weighing less than 20 pounds, or in the case of distributed systems, less than 5 pounds per foot, which are suspended from a roof or floor or hung from a wall.

For those elements that do not require details on the approved drawings, the installation shall be subject to the approval of the design professional in general responsible charge or Structural Engineer delegated responsibility and the DSA District Structural Engineer. The project inspector will verify that all components and equipment have been anchored in accordance with above requirements.

Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-10 Section 13.3 as defined in ASCE 7-10 Section 13.6.5.6, 13.6.7, 13.6.8, and 2016 CBC, Sections 1616A.1.24, 1616A.1.25, and 1616A.1.26.

The method of showing bracing and attachments to the structure for the identified distribution system are as noted below. When bracing and attachments are based on a pre approved installation guide (e.g., SMACNA or OSHPD OPM), copies of the bracing system installation guide or manual shall be available on the jobsite prior to the start of and during the hanging and bracing of the distribution systems. The Structural Engineer of Record shall verify the adequacy of the structure to support the hanger and brace loads.

Mechanical Piping, Mechanical Ducts, Plumbing Piping and Electrical Distribution Systems shall comply with applicable OSHPD preapproved OPM# 0010.

ABBREVIATIONS

A	AMPERES
AC	ALTERNATING CURRENT
AC	AMPERES INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME/AMP FUSE
AL	ALUMINUM
ARCH	ARCHITECT OR ARCHITECTURAL
AS	AMP SWITCH
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BACKB	BACKBOARD
C	CONDUIT WITH WIRE
CATV	CABLE TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CB	CIRCUIT BREAKER
CLF	CURRENT LIMITING FUSE
C.O.	CONDUIT ONLY WITH NYLON PULL CORD
CONTR	CONTRACTOR
COPPER	COPPER
CT	CURRENT TRANSFORMER
CW	COLD WATER
D	DEDICATED OUTLET
DC	DIRECT CURRENT
DF	DRINKING FOUNTAIN
DI	DIAMETER
DISC	DISCONNECT
DIST	DISTRIBUTION
DWGS	DRAWINGS
EACH	EACH
EB	90-MINUTE BATTERY CONNECTED TO UNIT
EC	ELECTRICAL CONTRACTOR
EG	EMERGENCY GENERATOR CONNECTION
EF	EXHAUST FAN
ELECT	ELECTRICAL
ELEV	ELEVATION/ELEVATOR
EMT	ELECTRO-METALLIC TUBING
EXIST	EXISTING
FA	FIRE ALARM
FC	FOOT CANDLE
FIXT	FIXTURE
FLUOR	FLUORESCENT
FT	FEET OR FOOT
GC	GENERAL CONTRACTOR
GD	GARBAGE DISPOSAL
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTER
GFR	GROUND FAULT RELAY
GRD	GROUND
H	HORIZONTAL
HID	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HR	HOUR
HT	HEIGHT
HZ	HERTZ
IG	ISOLATED GROUND BUS OR WIRE
IMC	INTERMEDIATE METAL CONDUIT
INCAND	INCANDESCENT
J-BOX	JUNCTION BOX
KVA	KILO-VOLT-AMPERE
KX	KILO-WATT
KWH	KILOWATT-HOUR
LF	LINEAL FEET
LTS	LIGHTING
LV	LOW VOLTAGE
MANUF	MANUFACTURER
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MIN	MINIMUM
MH	METAL HALIDE
MLO	MAIN LUGS ONLY
MTS	MOUNTING
MV	MERCURY VAPOR
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFIO	OWNER FURNISHED OWNER INSTALLED
P	PEDISTAL MOUNT
PB	PULL BOX
PC	PHOTOCCELL CONTROL
PCTC	PHOTOCCELL/TIMECLOCK CONTROL
PH	PHASE
PV	POST INDICATING VALVE
PLT	PILOT LIGHT
PVC	POLYVINYL CHLORIDE
PWR	POWER
PP	POWER POLE
QR	FIXTURE WITH QUARTZ RESTRIKE
QTY	QUANTITY
RECEPT	RECEPTACLE
REF	REFRIGERATOR
RGS	RIGID GALVANIZED STEEL
SD	SMOKE DETECTOR
SPEC	SPECIFICATION
SQ FT	SQUARE FEET OR SQUARE FOOT
SW	SWITCH
SWBD	SWITCHBOARD
TEMP	TEMPERATURE OR TEMPORARY
TV	TELEVISION
TEL, TELE	TELEPHONE
TC	TIME CLOCK
TRANSF	TRANSFORMER
TYP	TYPICAL
UGPS	UNDERGROUND FULL SECTION
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT-AMPERE
WH	WATER HEATER
WP	WEATHER PROOF
XFMR	TRANSFORMER



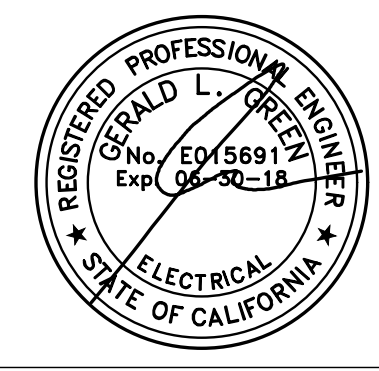
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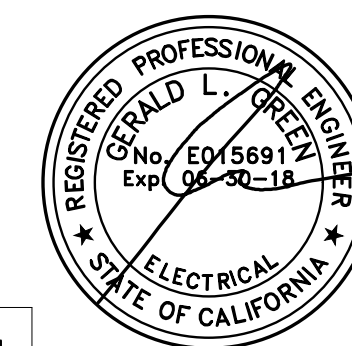
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Date Last Revised	

Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
SYMBOLS LIST

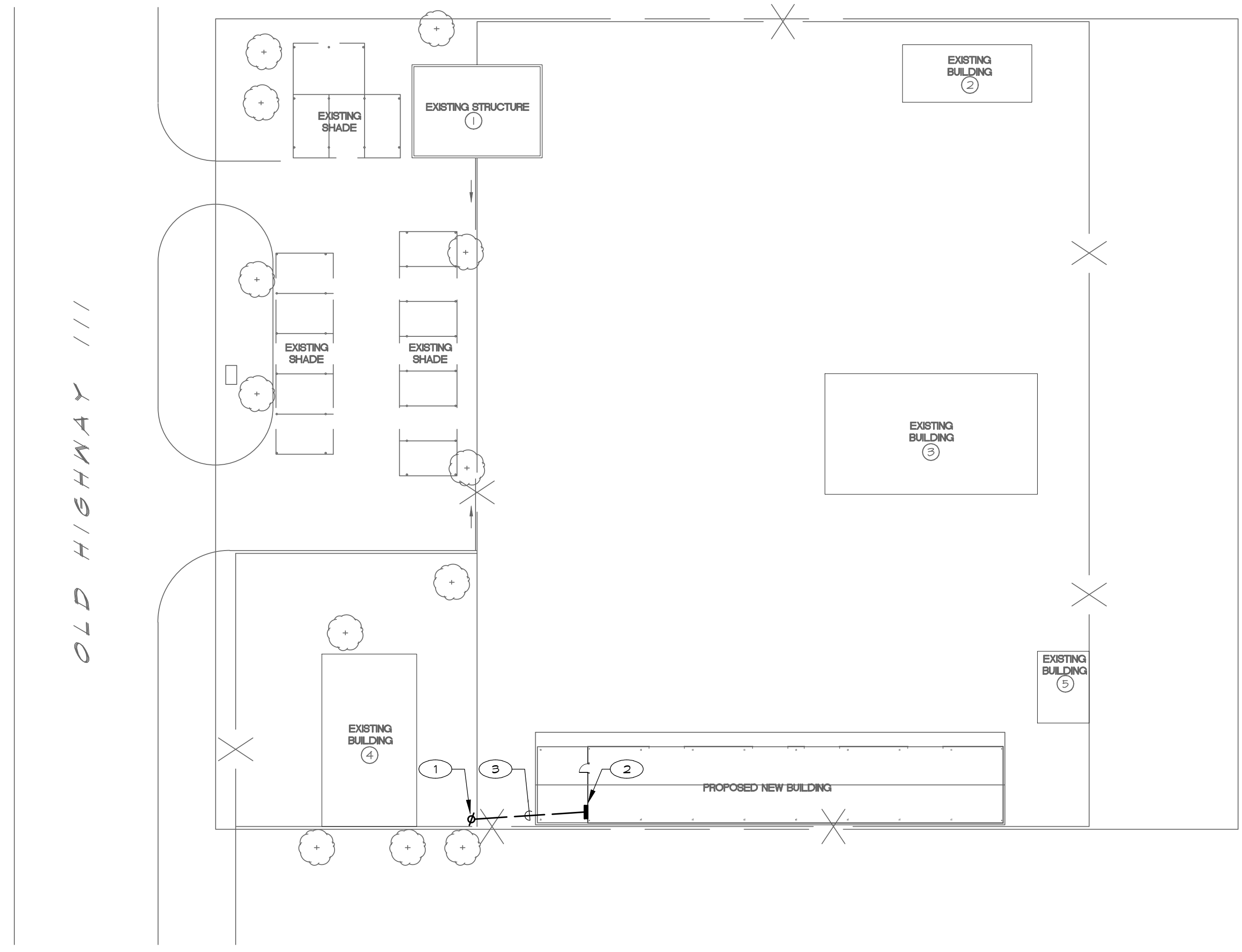
Project Number	17-010
Sheet Number	EO.1





NOTES

- ① EXISTING IID POWER POLE
- ② NEW 200A SINGLE PHASE METER/MAIN
- ③ NEW 4" P.V.C. C.O. CONDUCTORS BY IID



Project Number
17-0100
Sheet Number
E1.1

Project Title
IMPERIAL COUNTY PUBLIC WORKS
BRAWLEY YARD BUILDING REPLACEMENT
Sheet Title
ELECTRICAL SITE PLAN

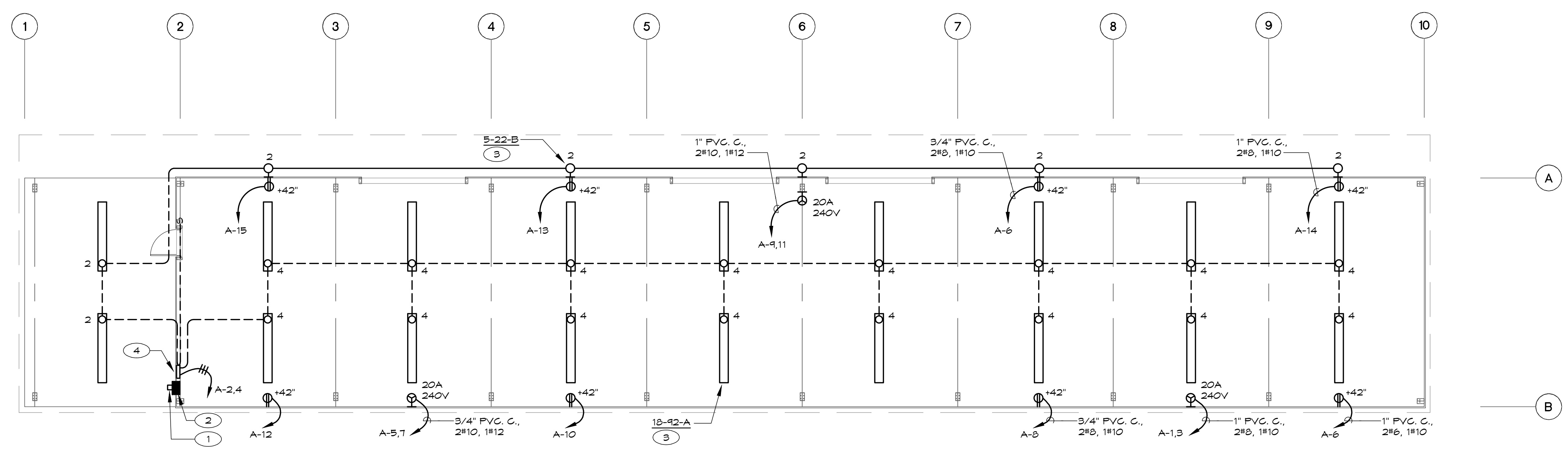
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POWER AND LIGHTING FLOOR PLAN

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

VOLTAGE	120/240	AIC		PANEL	"A"	MOUNTING	LISS ONLY
PHASE	1	10,000		LOCATION	SHOP	SURFACE	BUSSING 200A
WIRE	3			FEEDER	SEE SINGLE LINE		FEED BOTTOM

LOCATION	WATTAGE		LTO	REC	MS	BKR	OR	OR	BKR	MS	REC	LTO	WATTAGE		LOCATION
	Φ A	Φ B											Φ A	Φ B	
RECEPTACLE	1500					20	1	A	2	20		7	294		EXTERIOR
---		1500				20	3	B	4	20		16		1472	INTERIOR
RECEPTACLE	1500					20	5	A	6	20		1	1500		RECEPTACLE
---		1500				20	7	B	8	20		1		1500	RECEPTACLE
RECEPTACLE	1500					20	9	A	10	20		1	1500		RECEPTACLE
---		1500				20	11	B	12	20		1		1500	RECEPTACLE
RECEPTACLE	1500					20	13	A	14	20		1	1500		RECEPTACLE
RECEPTACLE		1500				20	15	B	16	20		1		1500	RECEPTACLE
SPACE ONLY						0	17	A	18	0					SPACE ONLY
SPACE ONLY						0	19	B	20	0					SPACE ONLY
SPACE ONLY						0	21	A	22	0					SPACE ONLY
SPACE ONLY						0	23	B	24	0					SPACE ONLY
SPACE ONLY						0	25	A	26	0					SPACE ONLY
SPACE ONLY						0	27	B	28	0					SPACE ONLY
SPACE ONLY						0	29	A	30	0					SPACE ONLY
SPACE ONLY						0	31	B	32	0					SPACE ONLY
SPACE ONLY						0	33	A	34	0					SPACE ONLY
SPACE ONLY						0	35	B	36	0					SPACE ONLY
SPACE ONLY						0	37	A	38	0					SPACE ONLY
SPACE ONLY						0	39	B	40	0					SPACE ONLY
SPACE ONLY						0	41	A	42	0					SPACE ONLY
SUBTOTAL		6000	6000										4794	5972	
TOTAL		ΦA	10794					ΦB	11972						
TOTAL LOAD		22766						WATTS AT 120/240	V _{L-N} 3W _F	94.9			A		

DATE 2/21/2018

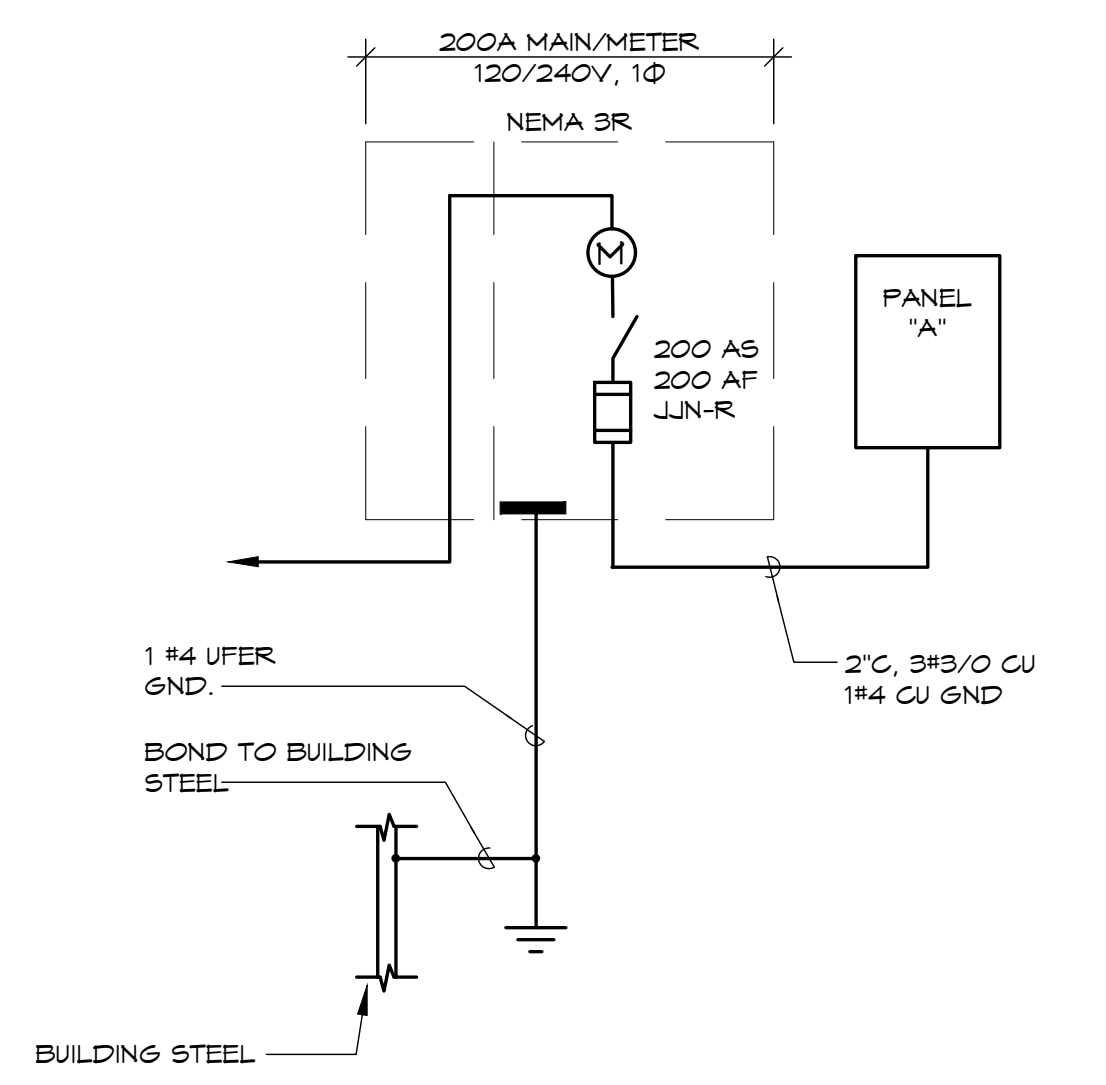
* = ROUTE CIRCUIT THROUGH TITLE 24 APPROVE 2P TIME CLOCK WITH ASTRONOMIC FEATURE AND 2 HOUR OVERRIDE

NOTES

- METER/MAIN
- PANEL "A"
- VERIFY MOUNTING HEIGHT WITH ARCHITECT
- TIME CLOCK

GENERAL NOTES

UPSIZED CONDUCTORS ARE SHOWN FOR VOLTAGE DROP OF FUTURE UPSIZE OF 220V RECEPTACLE



POWER SINGLE LINE DIAGRAM
NO SCALE

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	SYMBOL	MANUFACTURER	CATALOG NUMBER	WATTS	VOLTS	MTG	LAMP TYPE	BUG	REMARKS
B	⊙	HUBBELL	LNC-9LV-1-3K-3-1	22	120	YS	22W LED	-	

MOUNTING TYPES:
 WS-WALL SURFACE, WR-WALL RECESSED, CS-CEILING SURFACE, CR-CEILING RECESSED, CH-CHAIN, PN-PENDANT, U-UNIVERSAL, G-GROUND, P-POLE, UC-UNDER CABINET, T-TRACK, CB-CABLE, TR-TRELLIS, C-COVE



FIXTURE TYPE "A"

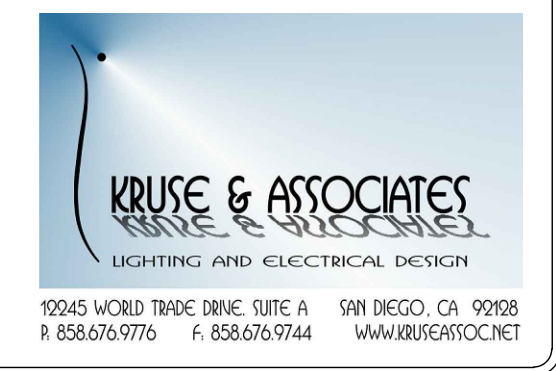
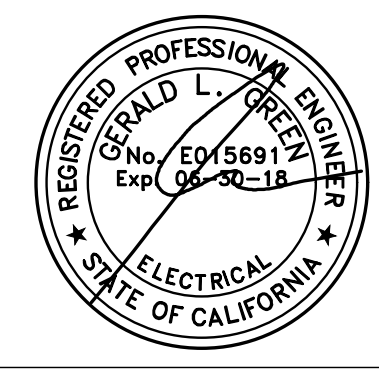


FIXTURE TYPE "B"

Document Date: 01-06-17
 Date Last Revised:

Project Title: IMPERIAL COUNTY PUBLIC WORKS BRAWLEY YARD BUILDING REPLACEMENT
 Sheet Title: POWER + LIGHTING FLOOR PLAN, SINGLE LINE, PANEL

Project Number: 17-010
 Sheet Number: E2.1





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Document Date
 01-06-17
 Date Last Revised

Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
TITLE 24

Project Number
17-010

Sheet Number
E3.1

STATE OF CALIFORNIA
INDOOR LIGHTING
 (CPC/NRCC-LTI-01-E, Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 NRCC-LTI-01-E
 Indoor Lighting
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING
 (CPC/NRCC-LTI-01-E, Revised 04/16)
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 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 (CPC/NRCC-LTI-02-E, Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 NRCC-LTI-02-E
 Indoor Lighting - Lighting Controls
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 (CPC/NRCC-LTI-02-E, Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 NRCC-LTI-02-E
 Indoor Lighting - Lighting Controls
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
 (CPC/NRCC-LTI-02-E, Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 NRCC-LTI-02-E
 Indoor Lighting - Lighting Controls
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 (CPC/NRCC-LTI-03-E, Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 NRCC-LTI-03-E
 Indoor Lighting Power Allowance
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

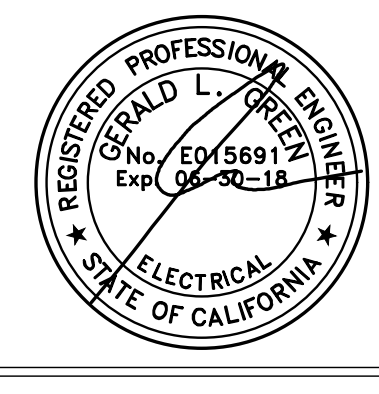
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

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 CERTIFICATE OF COMPLIANCE
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 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016





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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**
 Sheet Title
TITLE 24

Project Number
17-0100
 Sheet Number
E3.2

STATE OF CALIFORNIA
INDOOR LIGHTING POWER ALLOWANCE
 (REG. NRCC-LTO-01-E) (Form 01/16)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Indoor Lighting Power Allowance
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

Documentation Author's Declaration Statement
 I, **Keith Kruse**, certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: **Keith Kruse** Signature Date: **2/21/2018**
 Company: **Kruse & Associates** Address: **12245 World Trade Dr., Suite A**
 City/State/Zip: **San Diego, CA 92128** Phone: **(858) 676-9776**

Responsible Person's Declaration Statement
 I, **Gerry Green**, certify that this Certificate of Compliance documentation is accurate and complete.
 Responsible Designer Name: **Gerry Green** Date Signed: **02/21/18**
 Company: **Kruse & Associates** Address: **12245 World Trade Drive**
 City/State/Zip: **San Diego, CA 92128** Phone: **(858) 676-9776**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E) (Form 01/16)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Outdoor Lighting
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

A. General Information
 Project Address: **Imperial, CA**
 Phase of Construction: New Construction Addition Alteration L2-4
 Outdoor Lighting Zone (LZ): L2.1 L2.2 L2.3 L2.4

B. Lighting Compliance Documents (Check box for each document included)
 I have confirmed with the AHJ which LZ applies to this site. For default lighting power designations, see Title 24 Part 6, §10-114.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.

C. Summary of Allowed Outdoor Lighting Power
 Sum Total ALLOWED Outdoor Lighting Power: **753**
 Sum Total INSTALLED Outdoor Lighting Power: **294**

D. Declaration of Required Installation Certifications
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.
 I have submitted all required documents to the AHJ.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E) (Form 01/16)
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 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

G. Schedule of Luminaire Exempt from the Code Requirements in §130.2(b)
 Name or Symbol: **01** Description of exempt luminaire in accordance with the exemptions
 Name or Symbol: **02** Description of exempt luminaire in accordance with the exemptions

H. Schedule of Luminaire Exempt from the Outdoor Lighting Control Requirements in §130.2(c)
 Name or Symbol: **01** Description of exempt luminaire in accordance with the exemptions
 Name or Symbol: **02** Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-01-E) (Form 01/16)
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 Certificate of Compliance - Outdoor Lighting
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

I. Outdoor Lighting Schedule and Field Inspection Energy Checklist

01	Luminaire Schedule	03	Installed Watts			07	Location	08	Field Inspector
			04	05	06				
	Complete Luminaire Description		Watts per Luminaire	How wattage was determined	Watts per Luminaire		Primary function area in which the luminaires are installed (Outdoor Lighting Zone)		
A	92w LED	92.0	2	184	184		Pedestrian Hardcape		
B	22w LED	22.0	5	110	110		Pedestrian Hardcape		
					INSTALLED WATTS PAGE TOTAL:		294	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, page 1.	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 (REG. NRCC-LTO-02-E) (Form 01/16)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Outdoor Lighting Controls
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

Documentation Author's Declaration Statement
 I, **Keith Kruse**, certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: **Keith Kruse** Signature Date: **2/21/2018**
 Company: **Kruse & Associates** Address: **12245 World Trade Dr., Suite A**
 City/State/Zip: **San Diego, CA 92128** Phone: **(858) 676-9776**

Responsible Person's Declaration Statement
 I, **Gerry Green**, certify that this Certificate of Compliance documentation is accurate and complete.
 Responsible Designer Name: **Gerry Green** Date Signed: **02/21/18**
 Company: **Kruse & Associates** Address: **12245 World Trade Drive**
 City/State/Zip: **San Diego, CA 92128** Phone: **(858) 676-9776**

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 (REG. NRCC-LTO-02-E) (Form 01/16)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Outdoor Lighting Controls
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

A. Mandatory Outdoor Lighting Control Declaration Statements
 Check all that apply:
 Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.4(b).
 Part Night Outdoor Lighting Controls, as defined in Section 130.1(b), shall meet the requirements in Section 130.1(b)(5).
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps larger than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.7(b).
 All installed outdoor lighting shall be controlled by a photocell or outdoor astronomical time-switch control, or other control capable of automatically switching OFF in accordance with Section 130.2(1).
 All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(2).
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(3).
 For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(4).
 For Building Facade, Ornamental Hardcape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(5).
 Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting, the outdoor lighting controls shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(b). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
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B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist

Outdoor Lighting Control Schedule

01	02	03	04	05	06	07	08	09	10	11
Location and Application of Luminaires Being Controlled	Type / Description of Lighting Control (i.e. outdoor motion sensor, lighting photocell, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)	Standards Complying With (✓ all apply, or enter "E" if exempt)
Entire		1	✓	✓						

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING POWER ALLOWANCES
 (REG. NRCC-LTO-03-E) (Form 01/16)
CERTIFICATE OF COMPLIANCE
 Certificate of Compliance - Outdoor Lighting Power Allowances
 Project Name: **Brawley Yard Building Replacement** Date Prepared: **2/21/2018**

A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY
 1. General Hardcape Lighting Power Allowance (See Table from Section B of NRCC-LTO-03-E) 1. 753
 2. Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C.1 to C.4 of NRCC-LTO-03-E.

PER APPLICATION From Section C-1	PER UNIT LENGTH (SALES FRONTAGE) From Section C-2	PER HARDSCAPE AREA (ORNAMENTAL LIGHTING) From Section C-3	PER SPECIFIC AREA From Section C-4	0	2.	0
0	0	0	0	0	0	0
3. Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2)			753	3.	753	

B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A

01	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			07	08	09
	02	03	04	05	06				
Name of Area	Numbered Hardcape Area	Area in Square Foot	AWA (B03)	Perimeter Length of General Hardcape	LWA per Linear Foot	LWA (B05 + B06)	Wattage (Watts)		
Hardscape	2,284	0,040	91	406	0,350	142	520	753	
							TOTAL	753	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

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C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPECIFIC APPLICATIONS
 The additional specific outdoor lighting power allowance shall be the smaller of the allowed lighting power or the actual lighting power used.
 Use Outdoor Lighting Zone (LZ) that is documented on page 1 of NRCC-LTO-01-E to calculate the specific wattage allowances.

C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B
 Available only for qualifying locations, which include Building Entrances or Exits; Primary Entrances to Senior Care Facilities, Police Stations, Hospitals, Fire Stations, and Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncovered Fuel Dispenser, ATM Machine Lighting
 If more than one luminaire type is used per location, use multiple rows for that location.

01	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Number of Qualifying Locations	Wattage Allowance per Qualifying Location	02 x 03	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance per application on this site: 0									

C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B
 If more than one luminaire type is used per location, use multiple rows for that location.

01	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Linear Feet of Sales Frontage	Wattage Allowance per Linear Foot	02 x 03	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for sales frontage on this site: 0									

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

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C-3. WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) - Table 140.7-B
 Allowance for the total site illuminated hardcape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers.
 If more than one luminaire type is used per location, use multiple rows for that location.

01	02	03	04	05	06	07	08	09	10
Name of area for which ornamental allowance is claimed	Square Feet of Hardcape	Wattage Allowance per Square Foot	02 x 03	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for ornamental lighting on the site: 0									

C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B
 Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardcape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; Guard Stations; Student Pick-up/Drop-off Zone; Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardcape.
 If more than one luminaire type is used per location, use multiple rows for that location.

01	02	03	04	05	06	07	08	09	10
Name of Location for Which Allowance is Claimed	Illuminated Area of Application	Wattage Allowance per square Foot	02 x 03	Luminaire Code or Symbol	Luminaire Description	Luminaire Quantity	Watts per Luminaire	Design Watts (07 x 08)	Allowed Watts (smaller of 04 or 09)
Sum total allowance for specific area on the site: 0									

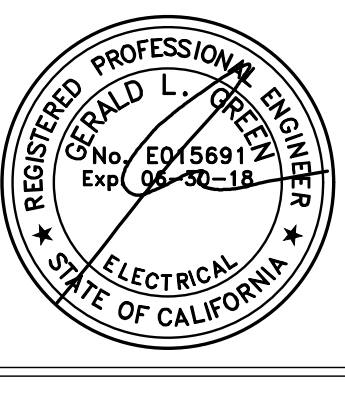
CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016

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OUTDOOR LIGHTING POWER ALLOWANCES
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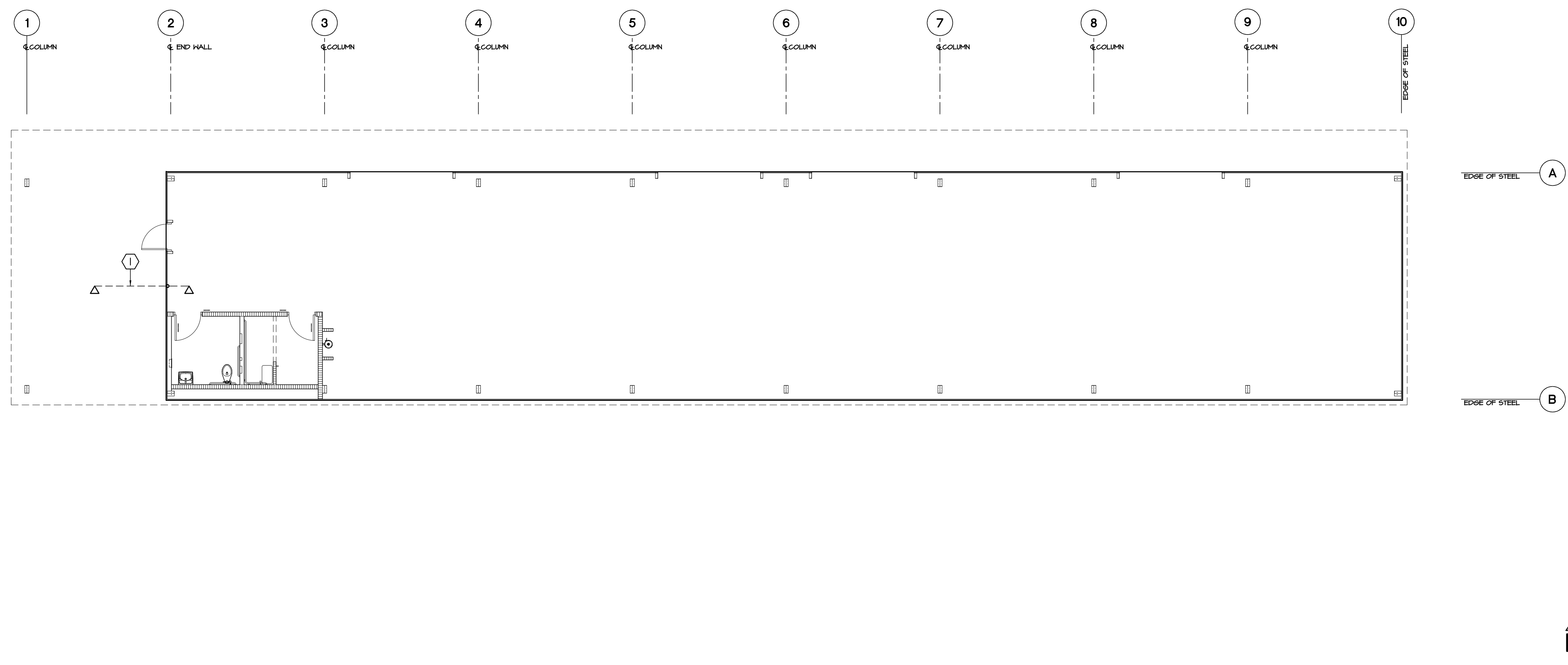


KEYNOTES:

① 2" CONDUIT FOR COMMUNICATIONS ABOVE CEILING

LEGEND:

- ▼ SINGLE WALL PORT
- ▽ DUAL WALL PORT (NO) - CAT 6 DATA
- ▽ DUAL ISLAND PORT - CAT 6 DATA
- ⊗ DUAL FLOOR PORT - CAT 6 DATA
- ⊠ DUAL CEILING PORT - CAT 6 DATA
- ⊞ SINGLE PORT WIRELESS ACCESS ABOVE CEILING - CAT 6 DATA
- POWERED DOOR LOCK ACCESS CONTROL
- CONDUIT FOR FUTURE POWERED DOOR LOCK
- ▬ SLEEVE THRU WALL FOR STRUCTURED CABLING - SIZE NOTED
- UG- STRUCTURED CABLING CONDUIT UNDERGROUND
- BF- STRUCTURED CABLING CONDUIT BELOW FLOOR
- ⊕ CEILING MOUNTED SPEAKER
- HG 12" WALL CLOCK (CAT 6)
- Ⓜ RECESSED WALL MOUNTED SPEAKER
- ① EQUIPMENT NUMBER - SEE EQUIPMENT SCHEDULE
- ⊞ CAMERA SYSTEM



COMMUNICATION PLAN

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



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 760 353 5440 FAX 760 353 5442

Document Date 04-06-18	Date Last Revised
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Project Title
**IMPERIAL COUNTY PUBLIC WORKS
 BRAWLEY YARD BUILDING REPLACEMENT**

Sheet Title
COMMUNICATION PLAN

Project Number
17-0100

Sheet Number
CM1