

# Oxnard College

4000 S ROSE AVE., OXNARD, CA 93033

## AUTO TECH BUILDING - (N) VEHICLE LIFT



Ventura Community College District

DSA Submittal - July 14th, 2023

A#: 03-123200

STATE: \_\_\_\_\_  
IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-123200 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/25/2023

ARCHITECT:  
**westbergwhite**  
architecture  
7700 IRVINE CENTER DRIVE, SUITE 100  
IRVINE, CA 92618  
(714) 508-1780 508-1790 FAX

CONSULTANT:

PROJECT NAME:

OXNARD COLLEGE AUTO TECH  
VEHICLE LIFT ADDITION  
4000 S ROSE AVE.  
OXNARD, CA 93033

CLIENT:  
**VENTURA COMMUNITY  
COLLEGE DISTRICT**  
761 E DAILY DR.,  
CAMARILLO, CA 93010

Rev.	Date	Description

JOB NO: 22052.01  
DATE: 07/14/2023  
DRAWN: TG  
CHECK: MB  
ARCHITECT: PDW  
ENGINEER:

SHEET DESCRIPTION:  
COVER SHEET

SHEET NO:

G000



## ABBREVIATION

## TYPICAL SYMBOLS

## VICINITY MAP

## APPLICABLE CODES

## CAMPUS MAP

## SCOPE OF WORK

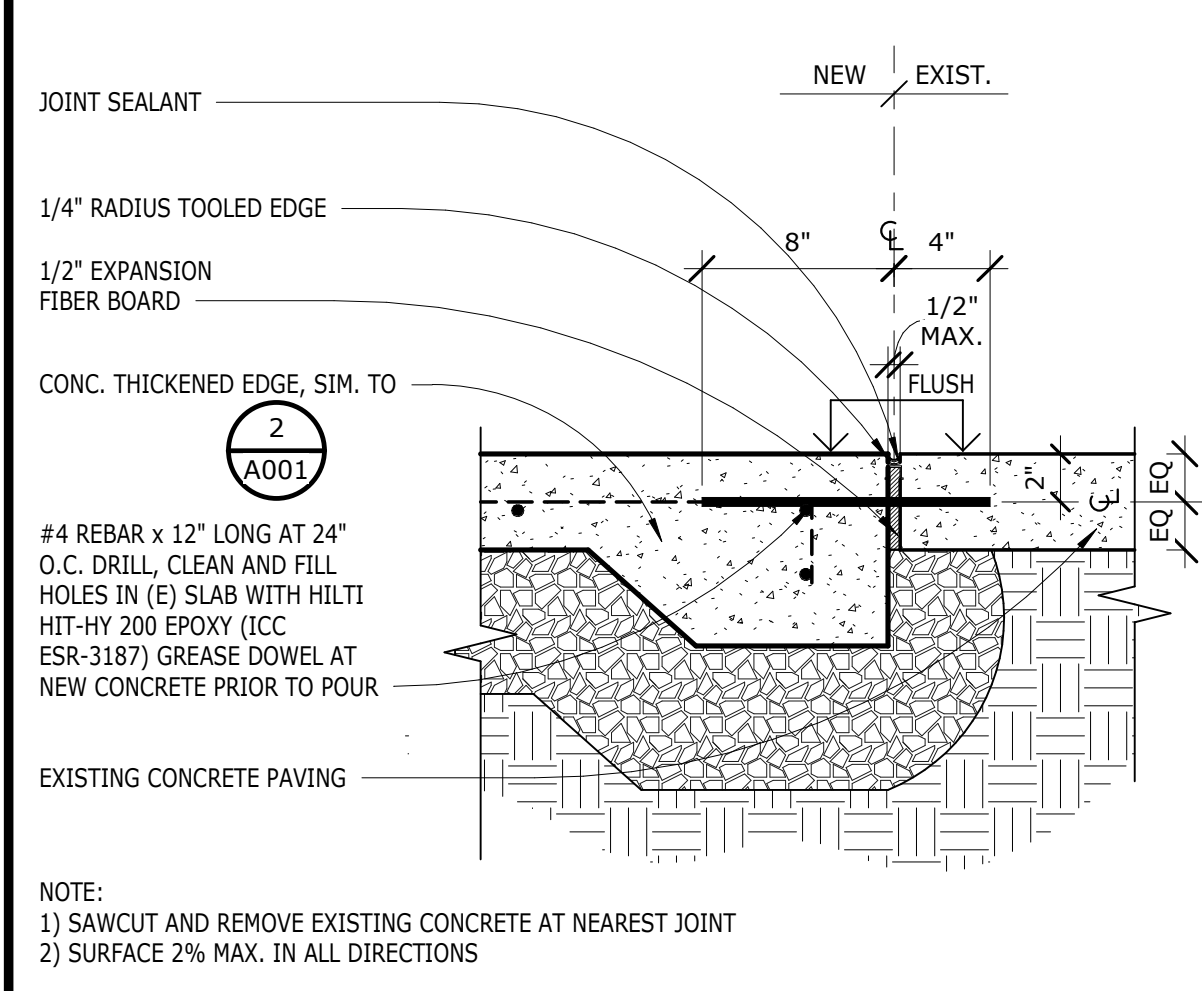
## TYPICAL SYMBOLS

## VICINITY MAP

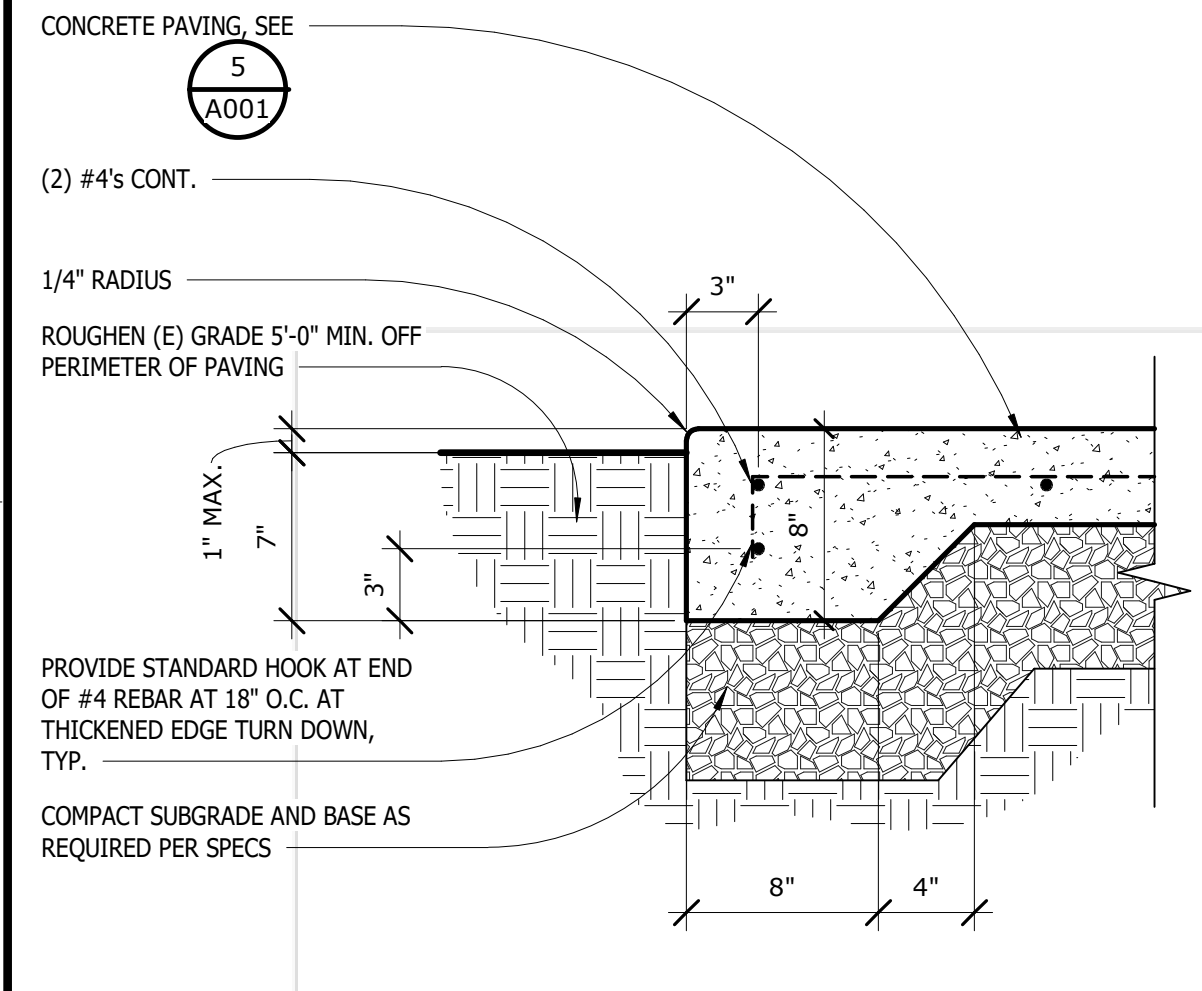
## CAMPUS MAP

G001

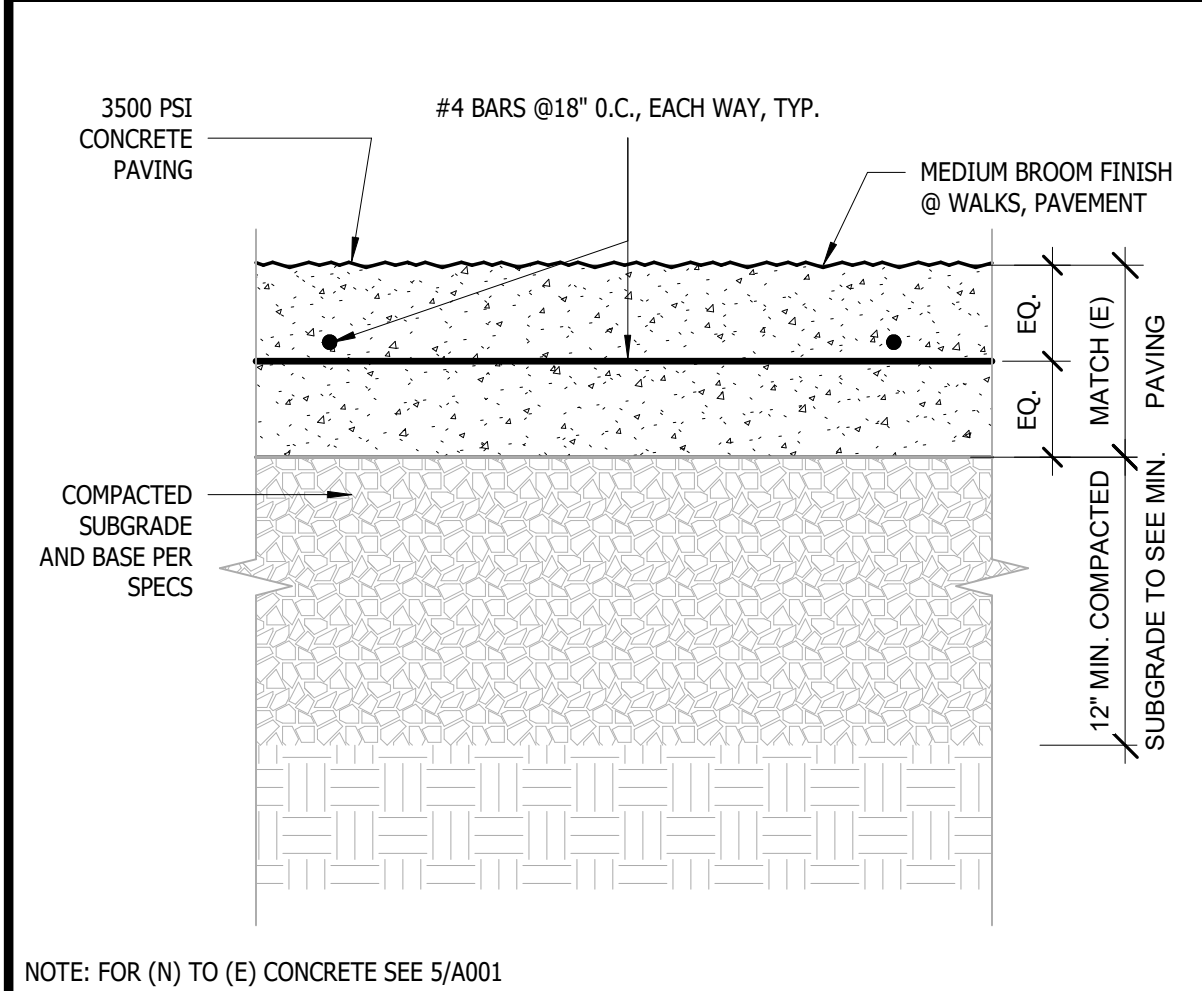




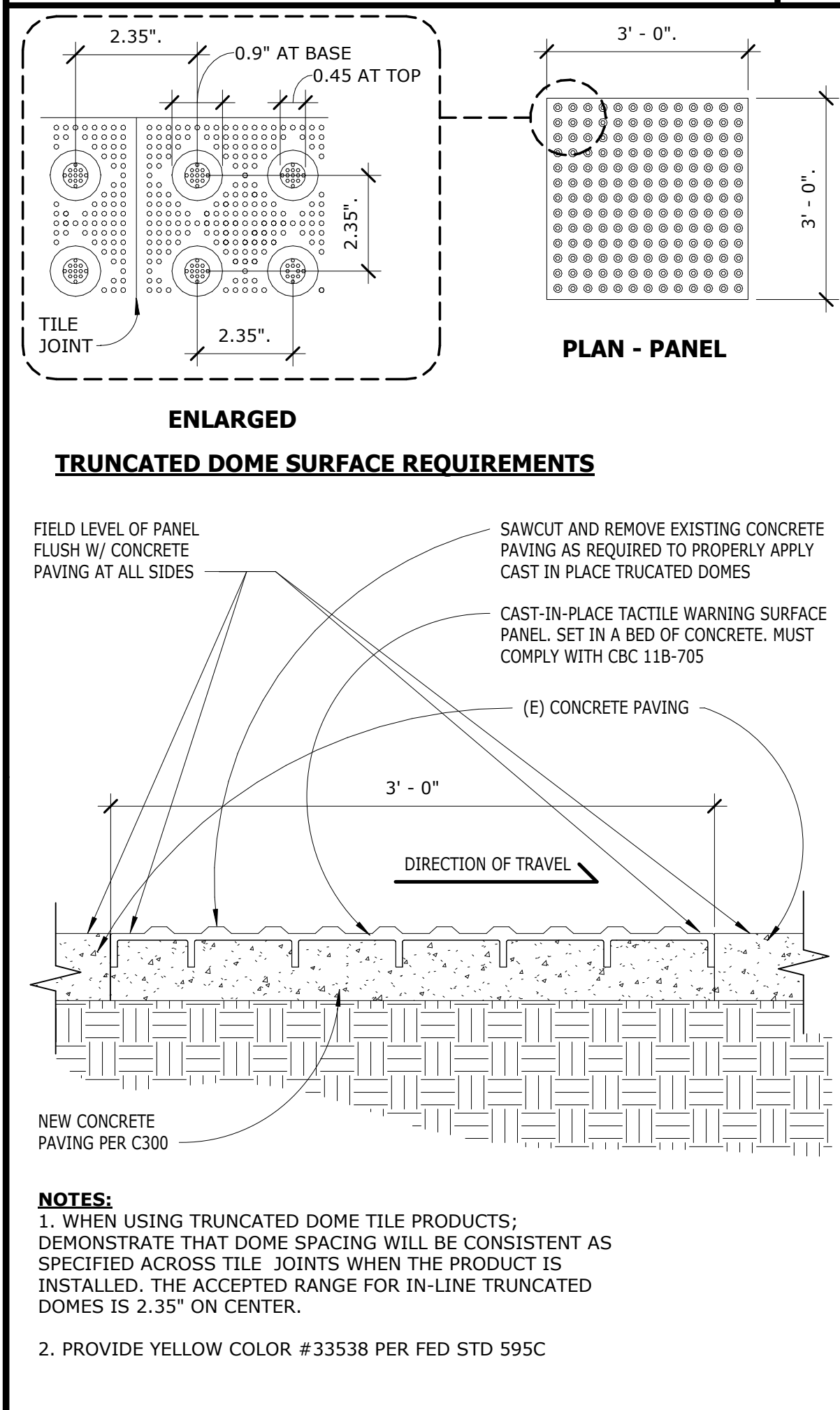
(N) CONC TO (E) CONC 1 1/2" = 1'-0" 6



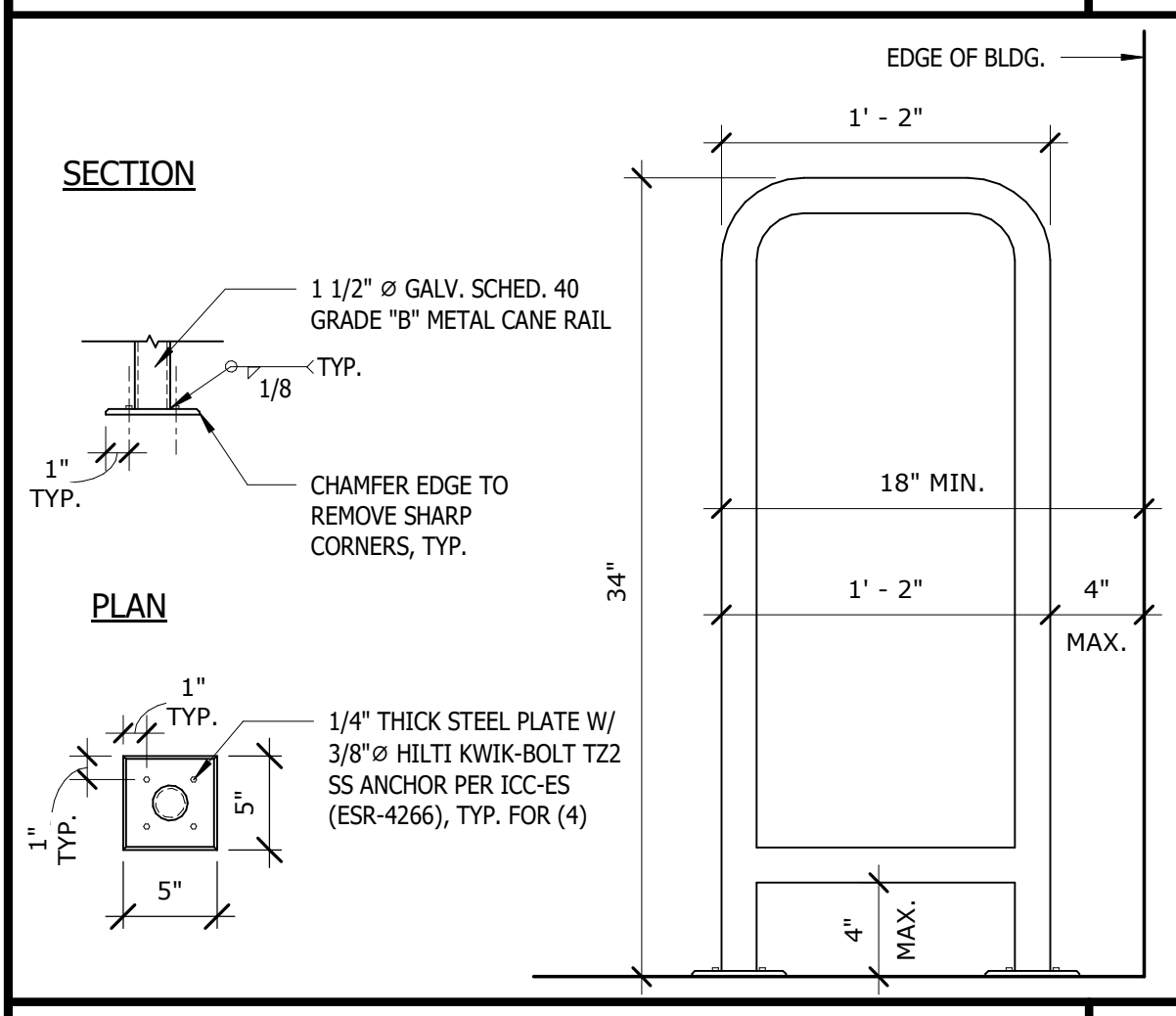
THICKENED EDGE 1 1/2" = 1'-0" 2



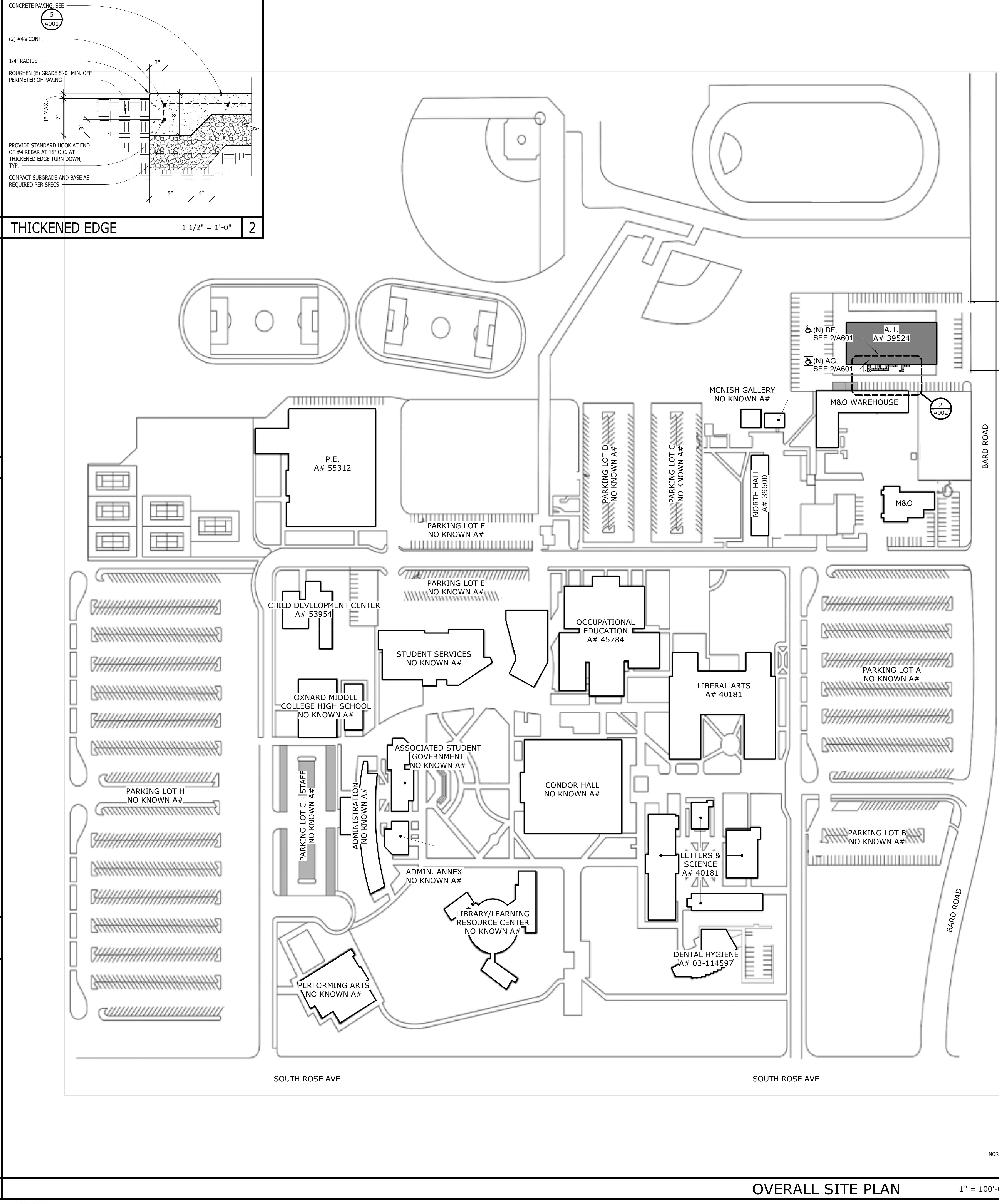
TYP. CONC. PAVING SECT. 3" = 1'-0" 5



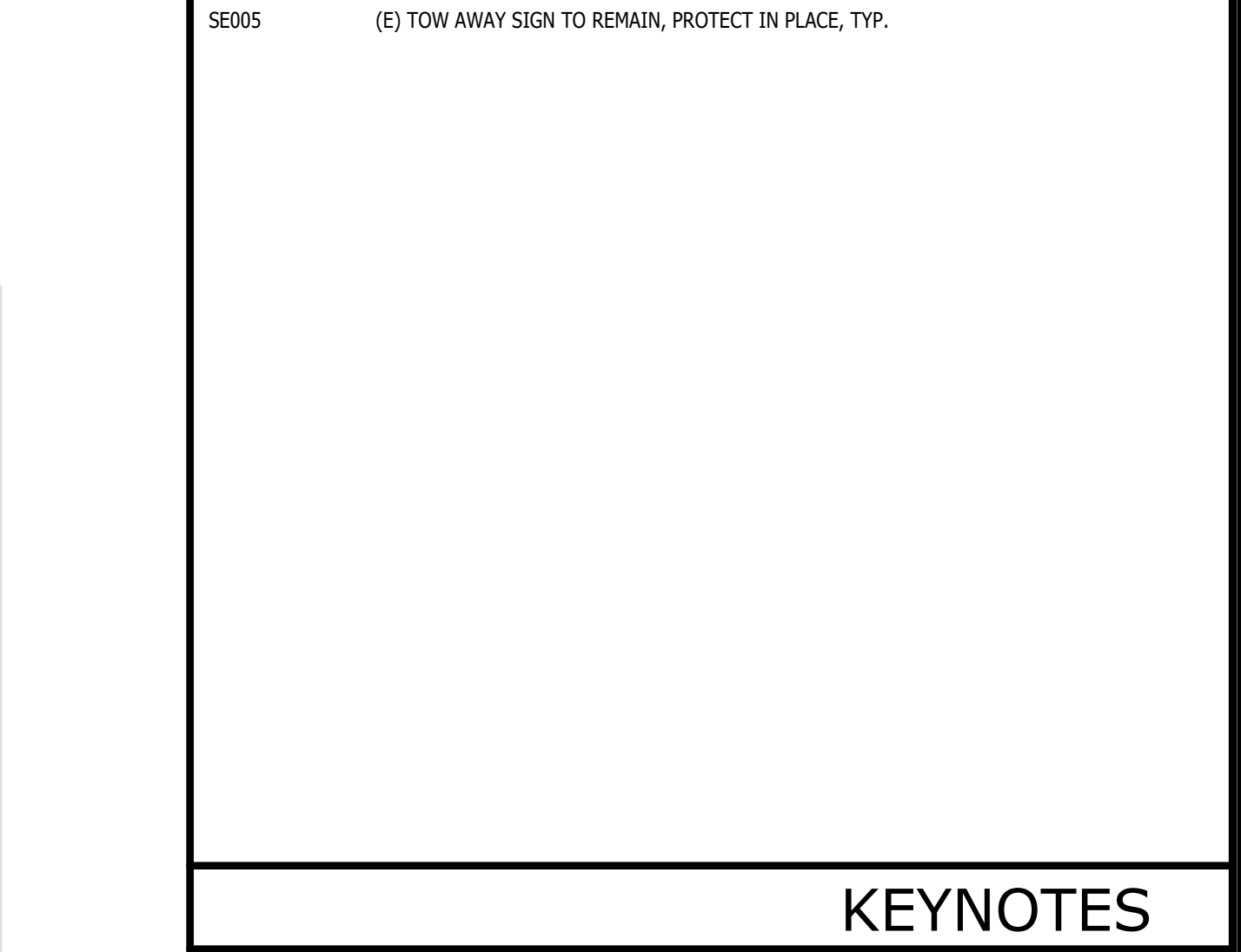
DETECTABLE WARNING SURFACES 1 1/2" = 1'-0" 4



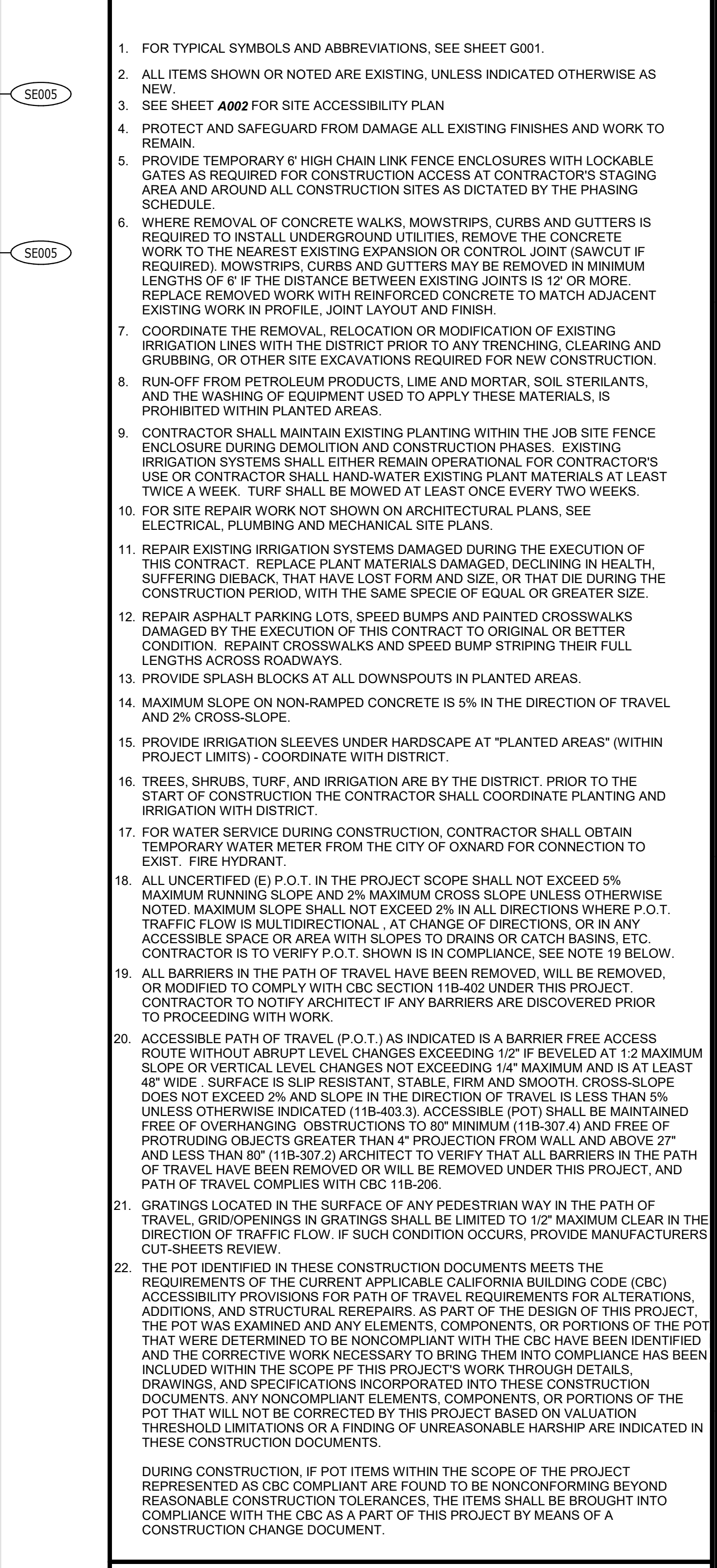
CANE RAIL 1 1/2" = 1'-0" 3



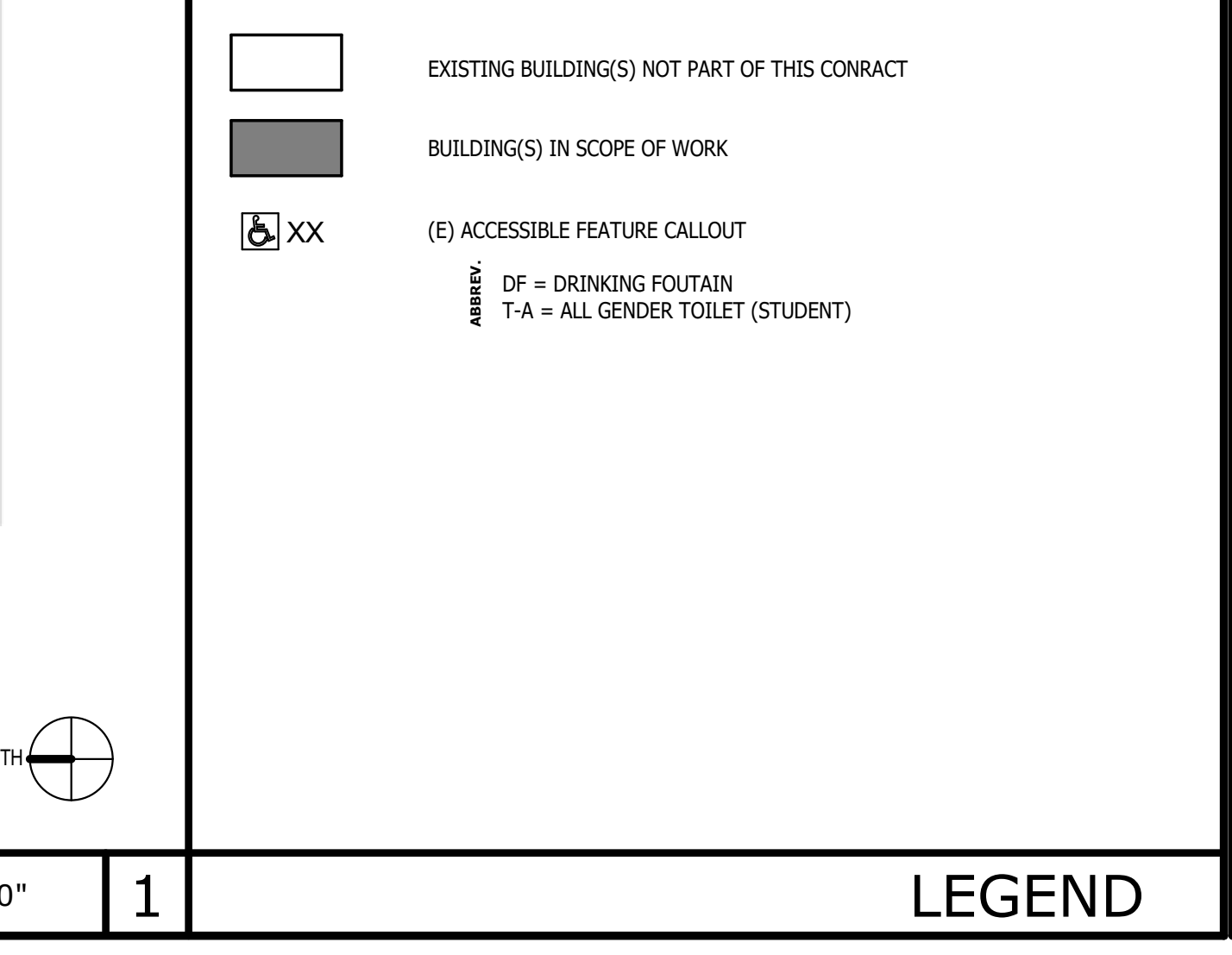
OVERALL SITE PLAN 1" = 100'-0" 1



KEYNOTES



GENERAL NOTES



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LICENSED ARCHITECT  
PAUL JENNIFER WESTBERG  
C-11945  
EXP. 9-2023

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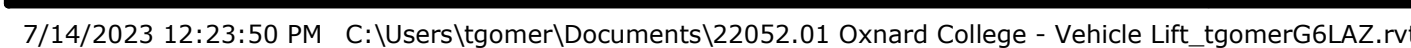
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ARCHITECT: PDW  
ENGINEER:

SHEET DESCRIPTION:  
OVERALL SITE PLAN

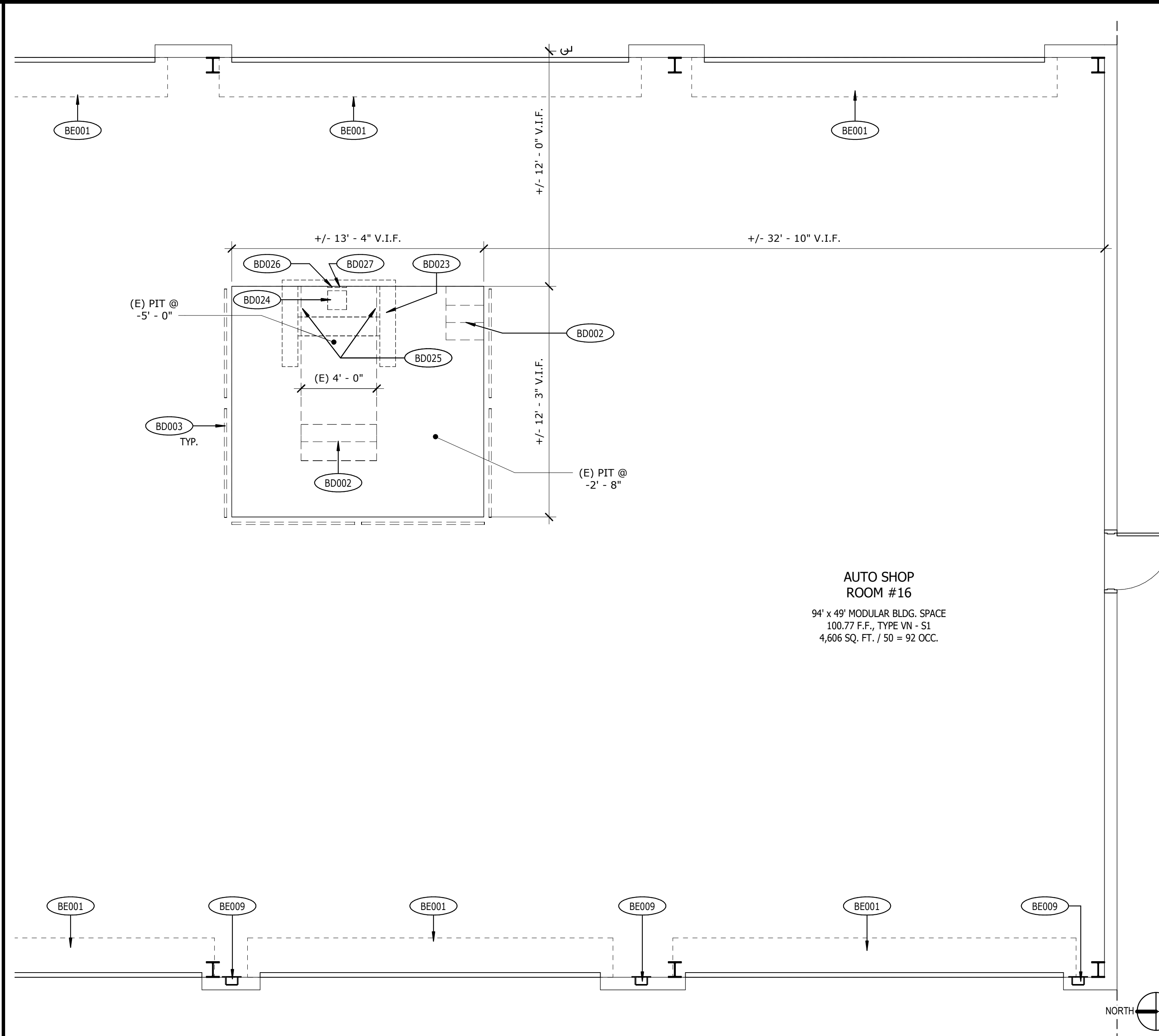
SHEET NO:

A001







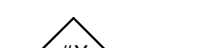





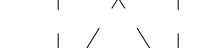




<b>CONSTRUCTION:</b>	TYPE V-B	
<b>AREAS:</b>		
- GROUND FLOOR:	14,014 S.F.	
- MEZZANINE:	500 S.F.	
- COVERED WORK AREA:	2,870 S.F.	
(1/2 AREA)		
TOTAL:	17,384 S.F.	
- STEAM CLEAN AREA:	230 S.F.	
(1/2 AREA)		
	AREA 'A'	AREA 'B'
<b>TOTAL BUILDING AREA:</b>	9,930 S.F.	9,780 S.F.
<b>ALLOWABLE:</b>	9,066 S.F.	9,066 S.F.
<b>EXCESS:</b>	864 S.F.	714 S.F.
2 SIDE YARDS @ 20' + 7' = 27'		
EQUALS	875 S.F.	875 S.F.

CODE SUMMARY FROM A# 39524 (1979) APPROVED PLANS

## CODE ANALYSIS

- 
 (E) POT  
 (N) POT
- 
 (E) WALLS  
 (N) FULL HEIGHT WALLS
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 5'-0" DIA. ACCESSIBLE TURNING SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE
- 
 30" x 48" WHEELCHAIR CLEARANCE SPACE

## LEGEND

- |       |  |
|-------|--|
| B0002 | REMOVE (E) STAIRS IN THEIR ENTIRETY  |
| B0003 | REMOVE (E) METAL RAILINGS IN THEIR ENTIRETY  |
| B0023 | REMOVE (E) LIFT & LIFT HARDWARE, TYP.  |
| B0024 | REMOVE (E) CATCH BASIN & CAP AT FINISHED FLOOR.  |
| B0025 | CUT & CAP (E) AIR & GAS OUTLETS, TYP.  |
| B0026 | REMOVE (E) LIGHT AND OUTLET & CUT & CAP WIRING/CONDUIT, TYP.   |
| B0027 | REMOVE MECHANICAL REFRIGERATION AND CAP (E) DUCTING, TYP.  |
| B0001 | (E) OVERHEAD COILING DOWNS TO REMAIN, PROTECT IN PLACE, TYP.   |
| B0009 | (E) FIRE EXTINGUISHER & E.C.F. CABINET TO REMAIN, PROTECT IN PLACE.  |
| S0002 | GRIND (E) CONC PAVING TO ACHIEVE MAX. 2% GRIND SLOPE TO DRAIN AWAY FROM EDGE OF<br>(E) ROAD. FEATHER BLEND TO EXISTING CONC PAVING AT SLOPE CHANGES. CONTRACTOR TO<br>VERIFY ALL (E) SLOPES BEFORE GRINDING. |

## KEYNOTES

1. FOR TYPICAL SYMBOLS AND ABBREVIATIONS, SEE SHEET G001.
2. STRUCTURAL COLUMNS ARE SHOWN FOR REFERENCE ONLY. FOR ACTUAL SIZE AND ORIENTATION, SEE STRUCTURAL DRAWINGS
3. ALL GYPSUM BOARD SHALL BE 5/8" THICK TYPE "X" (U.N.O.).
4. SEE FINISH SCHEDULE ON SHEET A702 FOR ADDITIONAL FINISHES OVER 5/8" X" GYPSUM BOARD.
5. PROVIDE FIRE-RESISTANT SEALANT MATERIAL AT ALL PENETRATIONS THROUGH FIRE WALLS, FIRE BARRIERS, CORRIDOR WALLS AND RATED HORIZONTAL ASSEMBLIES.
6. PROVIDE SOLID BACKING INSIDE WALLS FOR THE SUPPORT OF CASEWORK, MARBLE BOARDS, LIGHT FIXTURES, AND MECH. ELEC. AND MECH. EQUIPMENT AS OCCURS, WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, INSTALLATION SHALL BE SUBJECT TO APPROVAL OF THE DSA OR FIELD INSPECTOR.
7. ALL DIMENSIONS TO EXTERIOR WALLS ARE TO FACE OF STUD U.N.O.
8. PROTECT AND SAFEGUARD FROM DAMAGE ALL EXISTING FINISHES AND WORK TO REMAIN.
9. INTERIOR SIDE OF ALL CMU WALLS AND (BOTH SIDES OF INTERIOR CMU WALLS) TO BE FLUSH GROUTED.

## FLOOR PLAN GENERAL NOTES



STATE:

ARCHITECT:

ARCHITECT.

**W**

architecture  
**westbergwhite**

7700 IRVINE CENTER DRIVE, SUITE 100  
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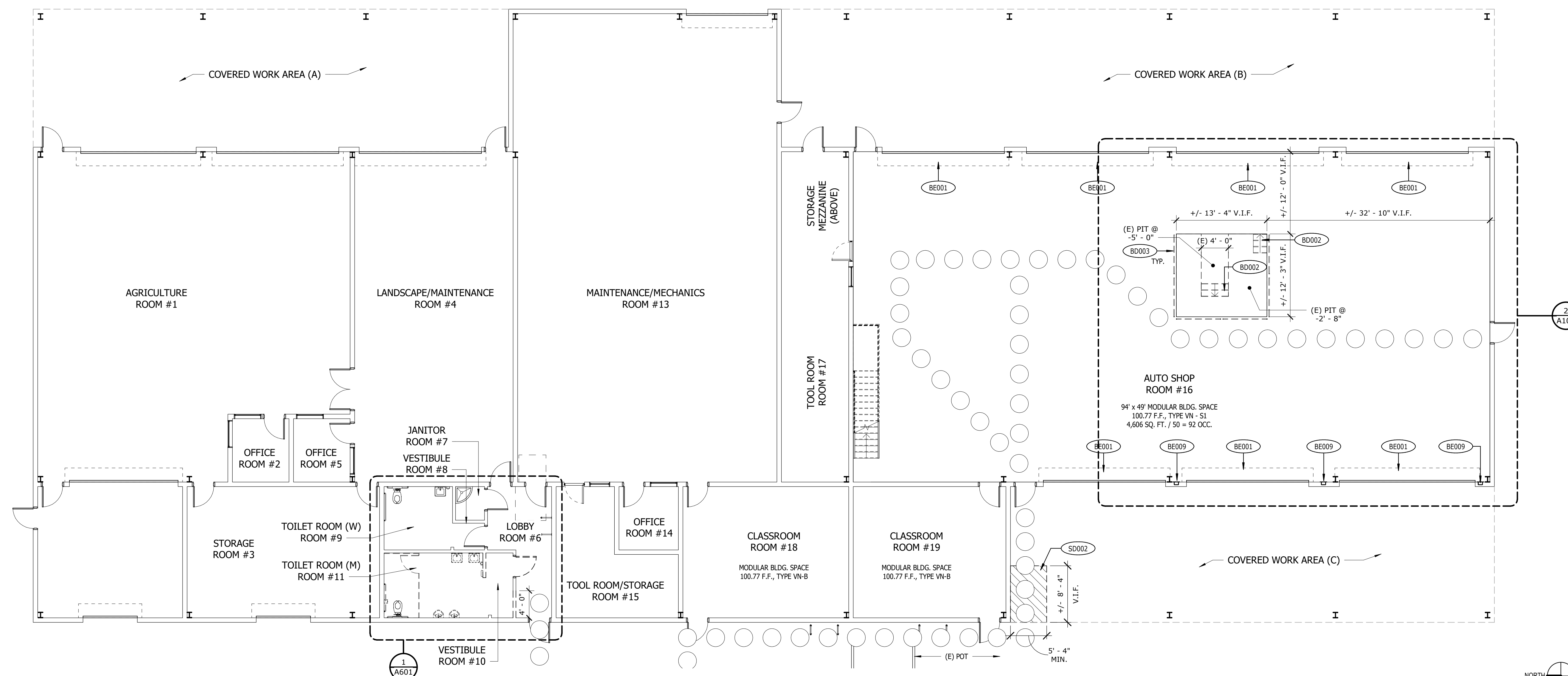
ARCHITECT: PDW

ENGINEER:

SHEET DESCRIPTION:  
DEMOLITION FLOOR PLAN

SHEET NO:

A101



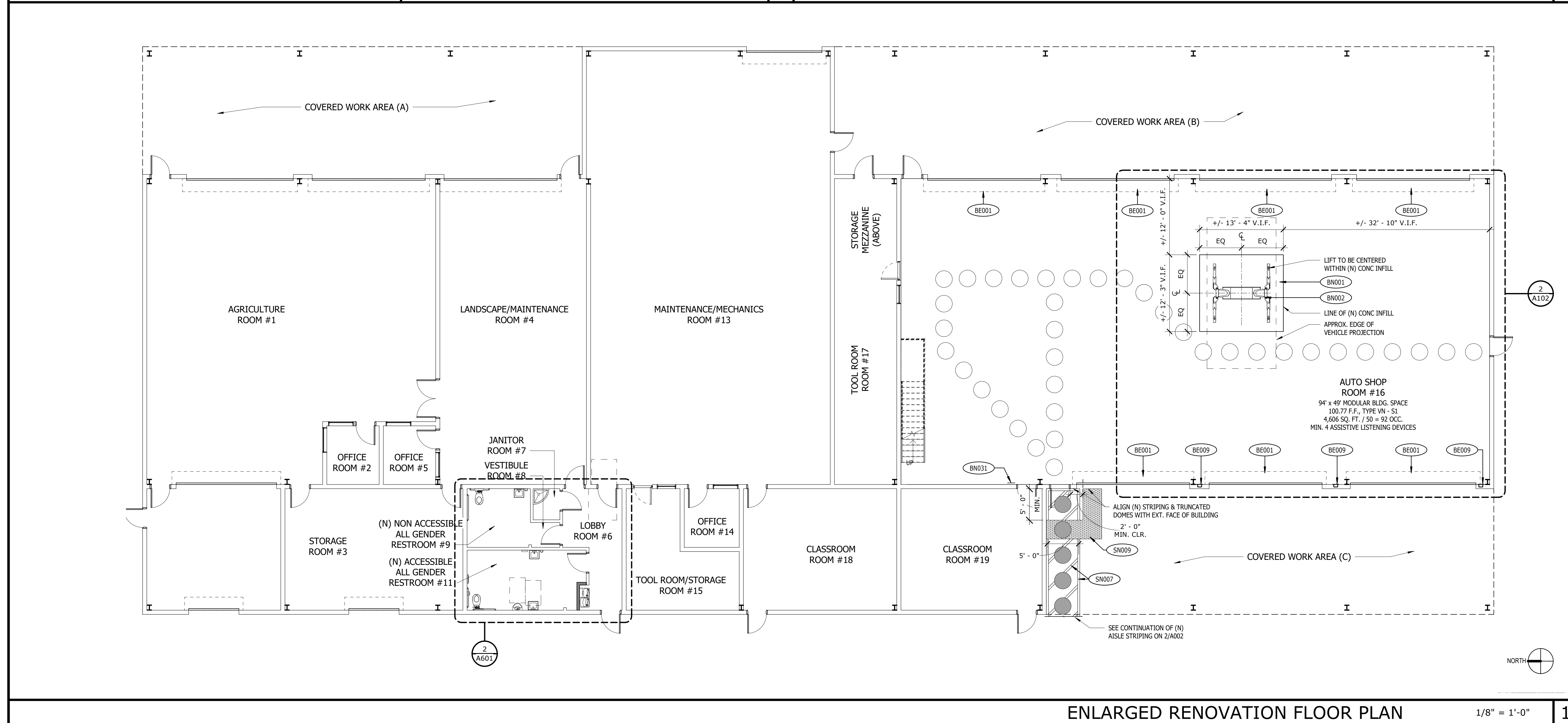
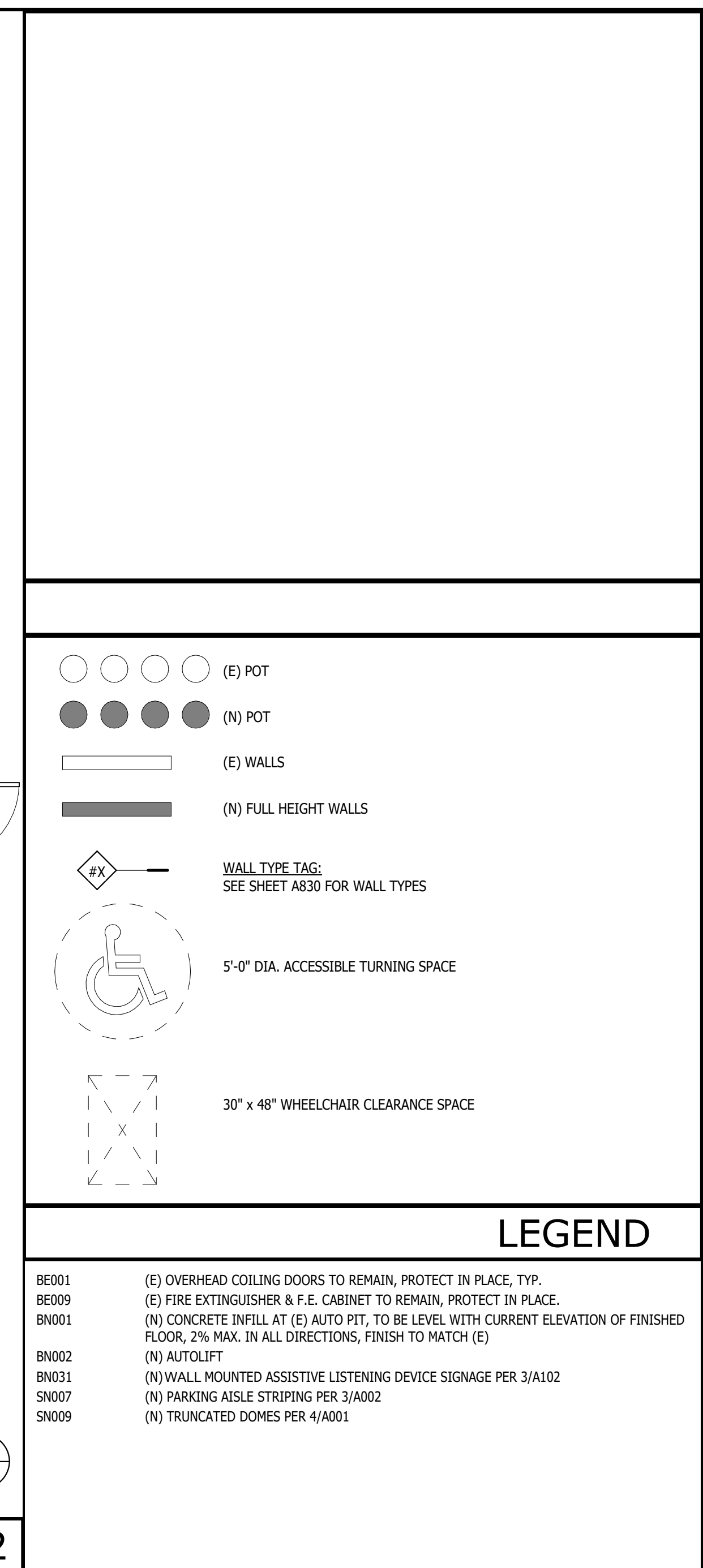
OVERALL DEMOLITION FLOOR PLAN

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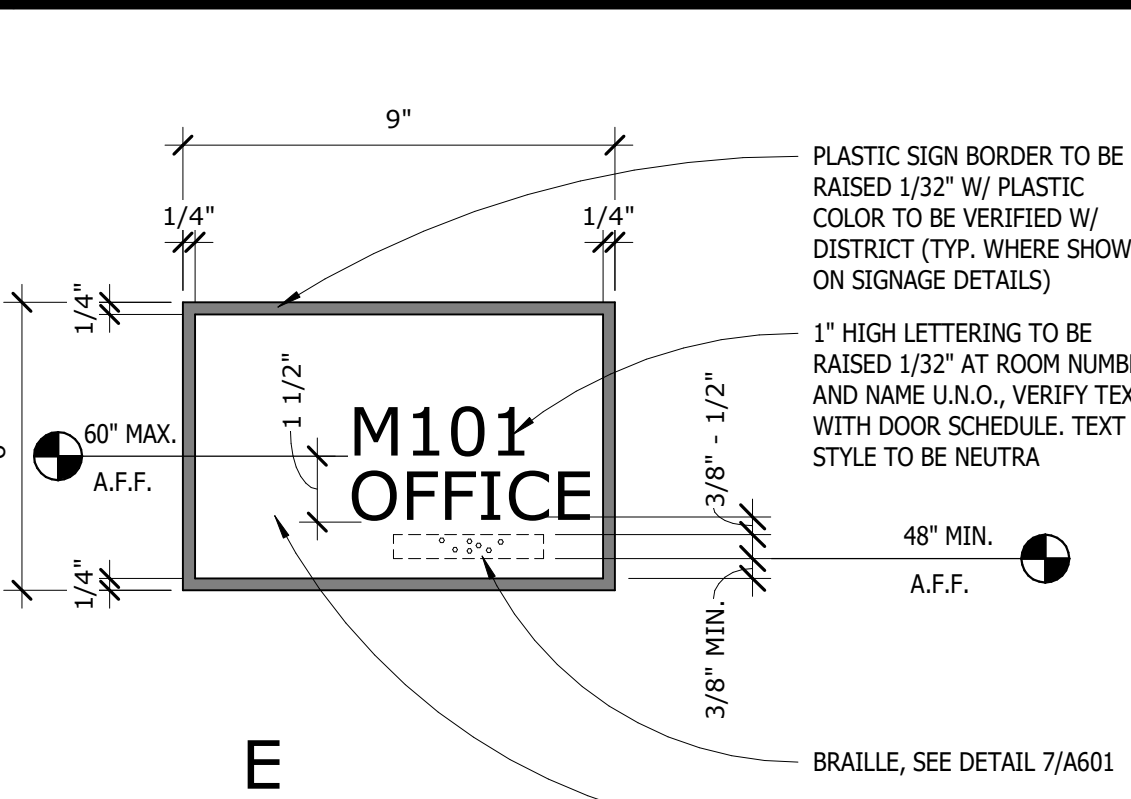
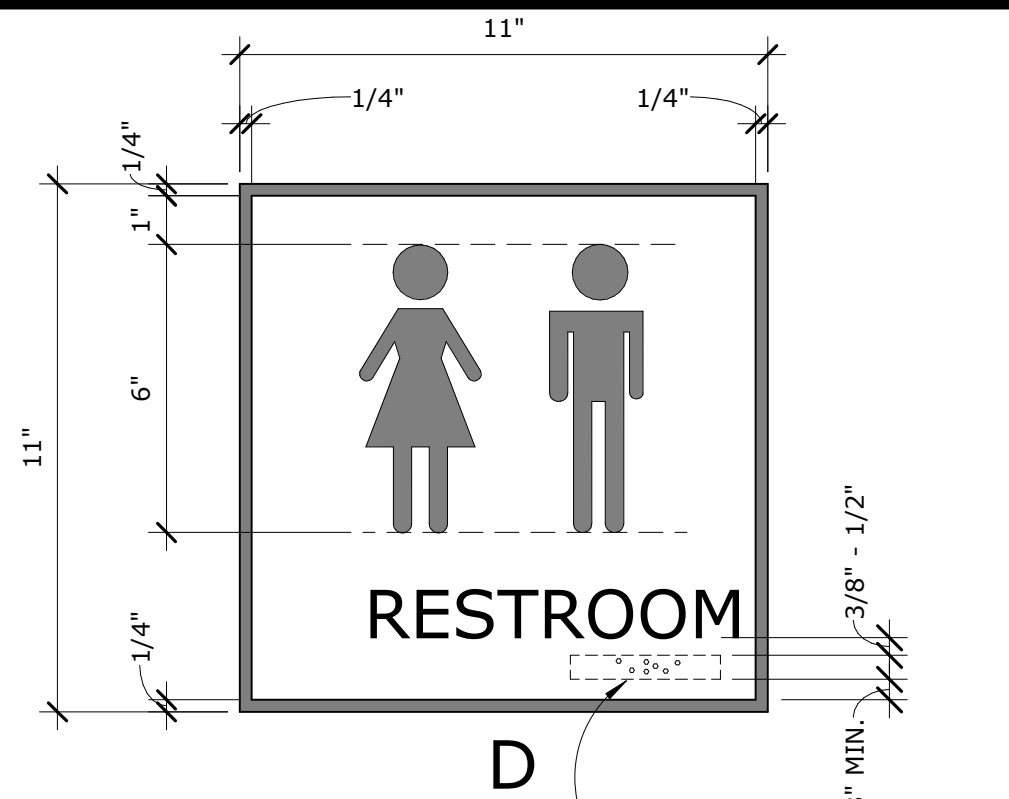
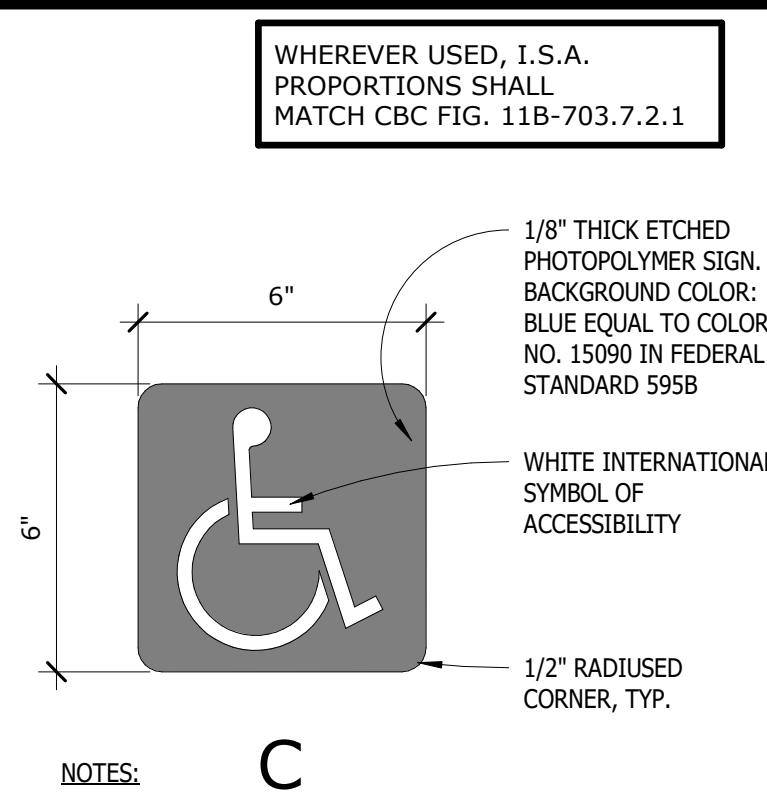
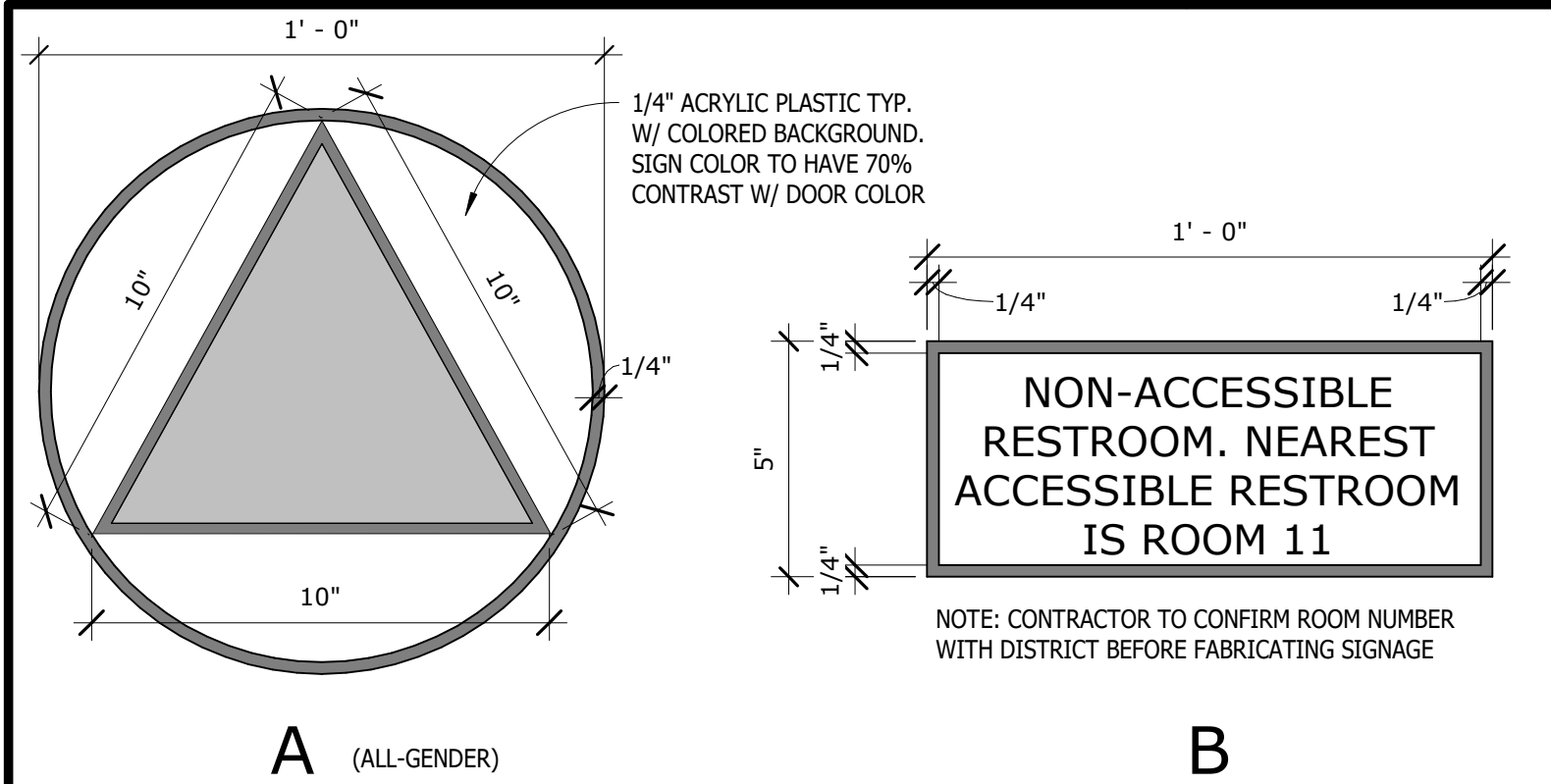
$1/8'' = 1'-0''$

## CAMPUS MAP









NOTE: COLOR OF TRIANGLE SHALL CONTRAST WITH THE COLOR OF THE CIRCLE. CIRCLE COLOR SHALL CONTRAST WITH DOOR COLOR. TRIANGLE TO BE BLUE AND CIRCLE TO BE WHITE - COLORS TO BE VERIFIED WITH DISTRICT PRIOR TO FABRICATION

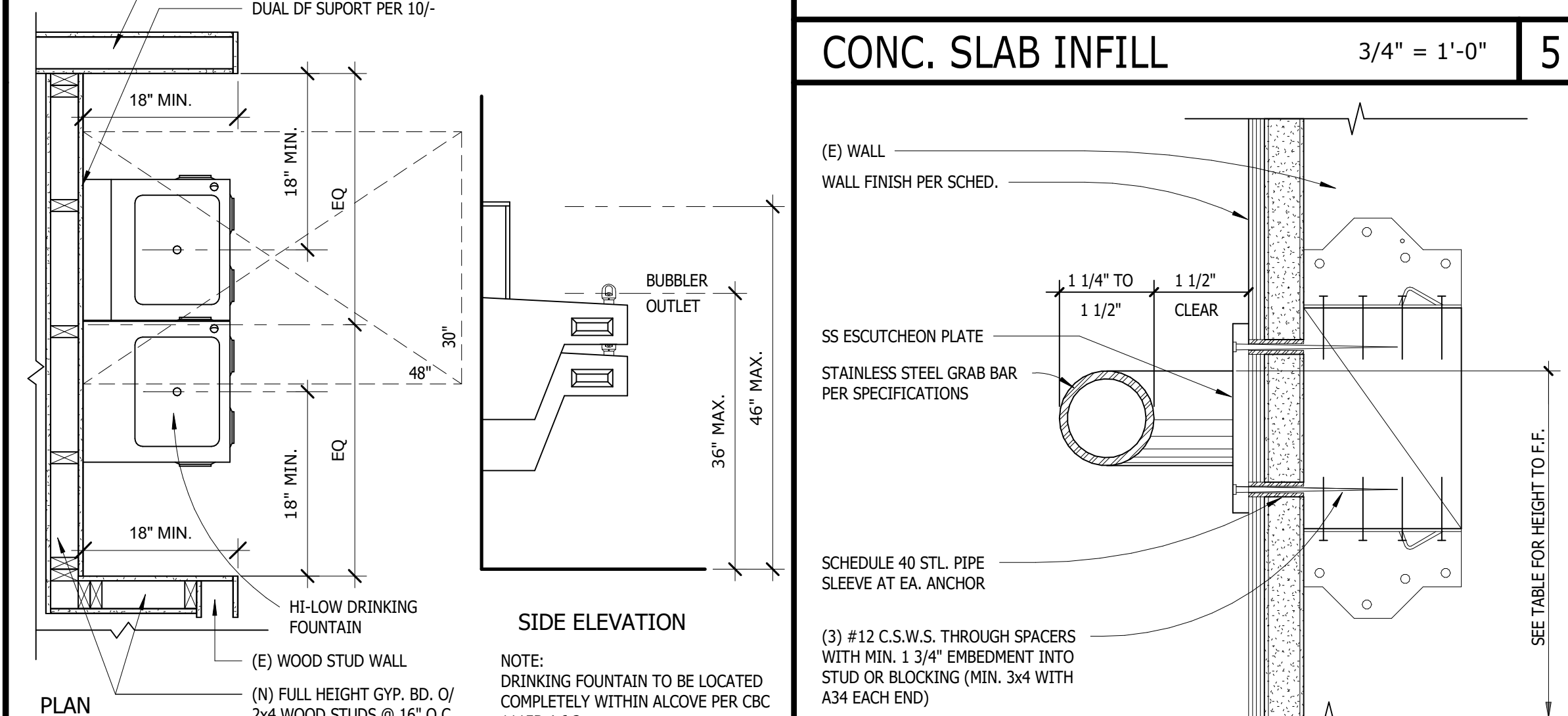
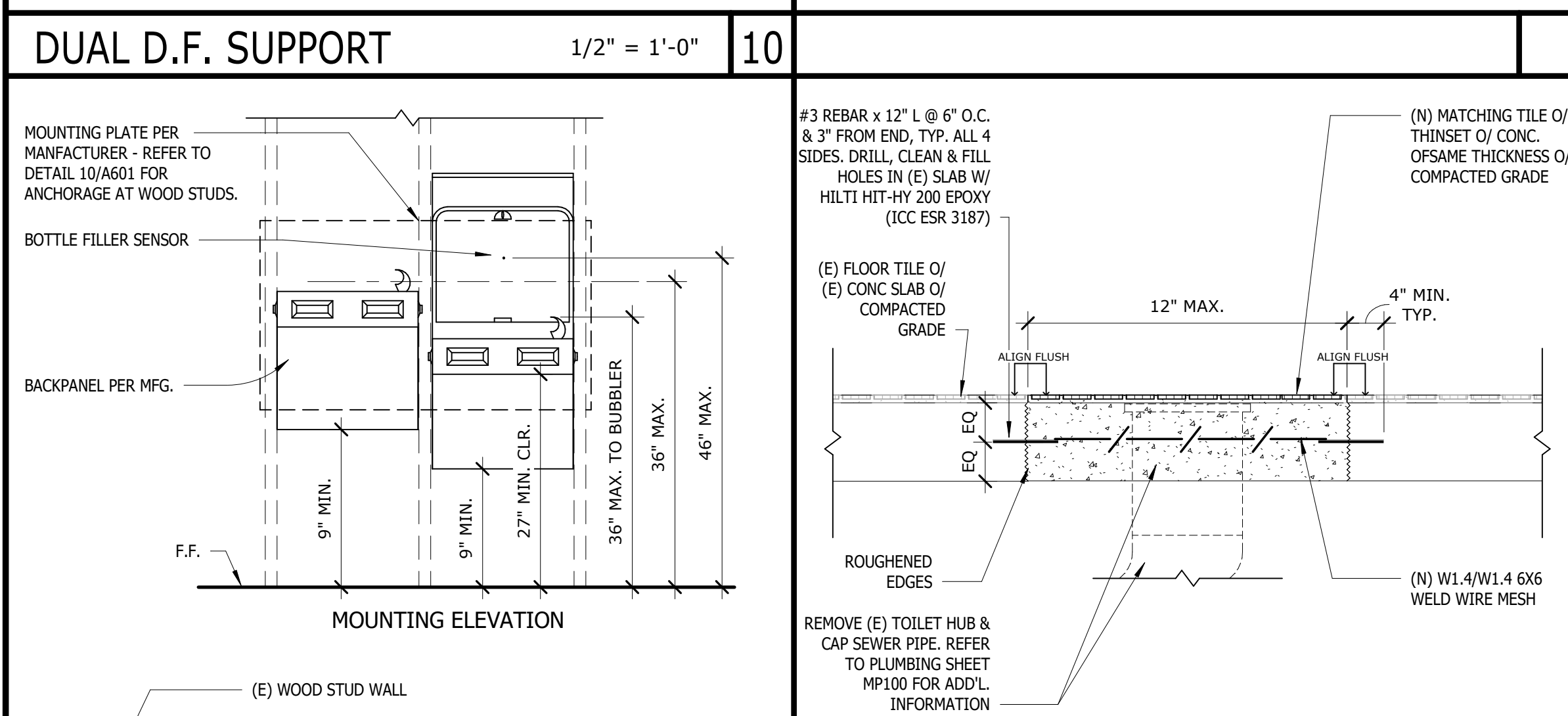
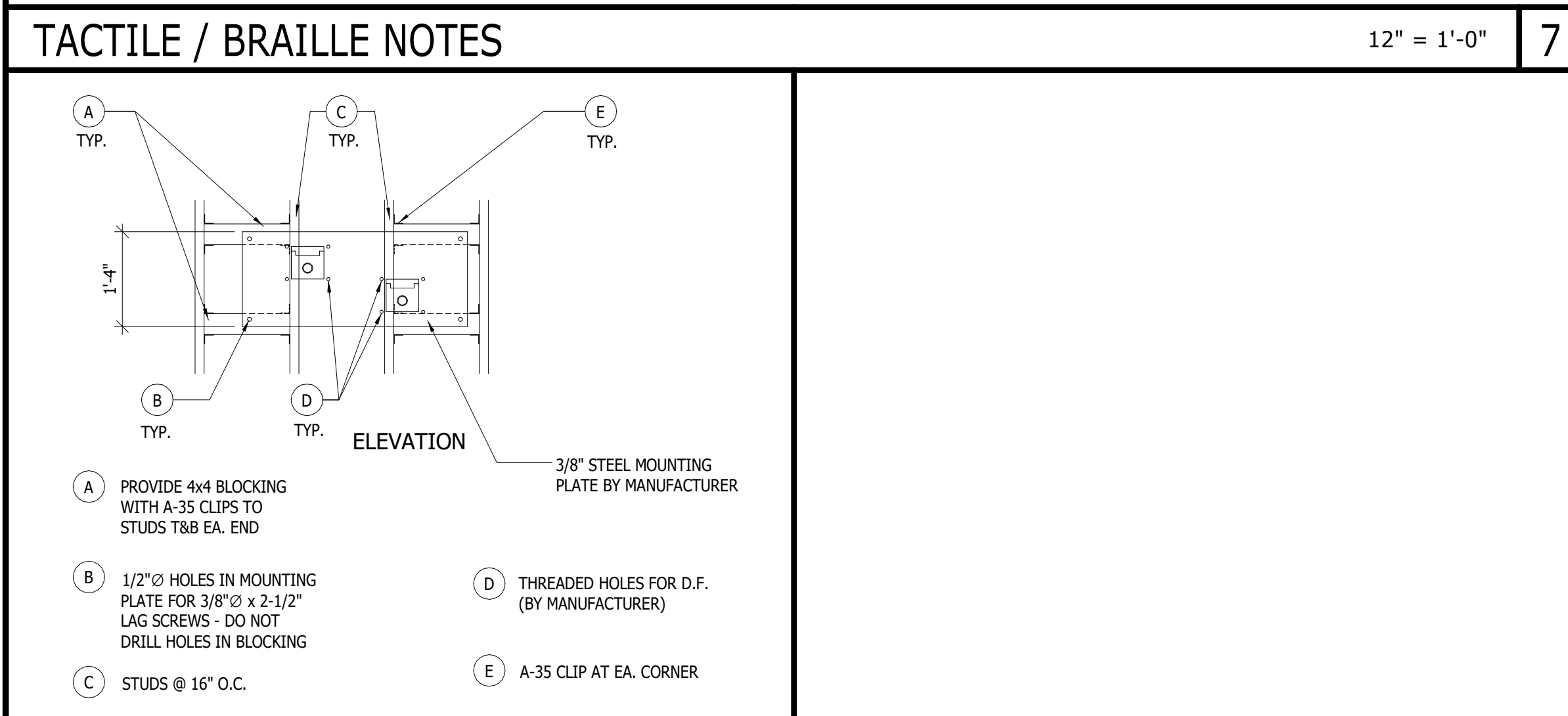
NOTES:  
1) THE CHARACTERS AND BACKGROUND OF THE SIGN SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH AND CHARACTERS SHALL CONTRAST W/ THEIR BACKGROUND.  
2) MOUNT W/ 3M HIGH BOND TAPE AND SILICONE GLUE.

BRAILLE, SEE DETAIL 7/A601

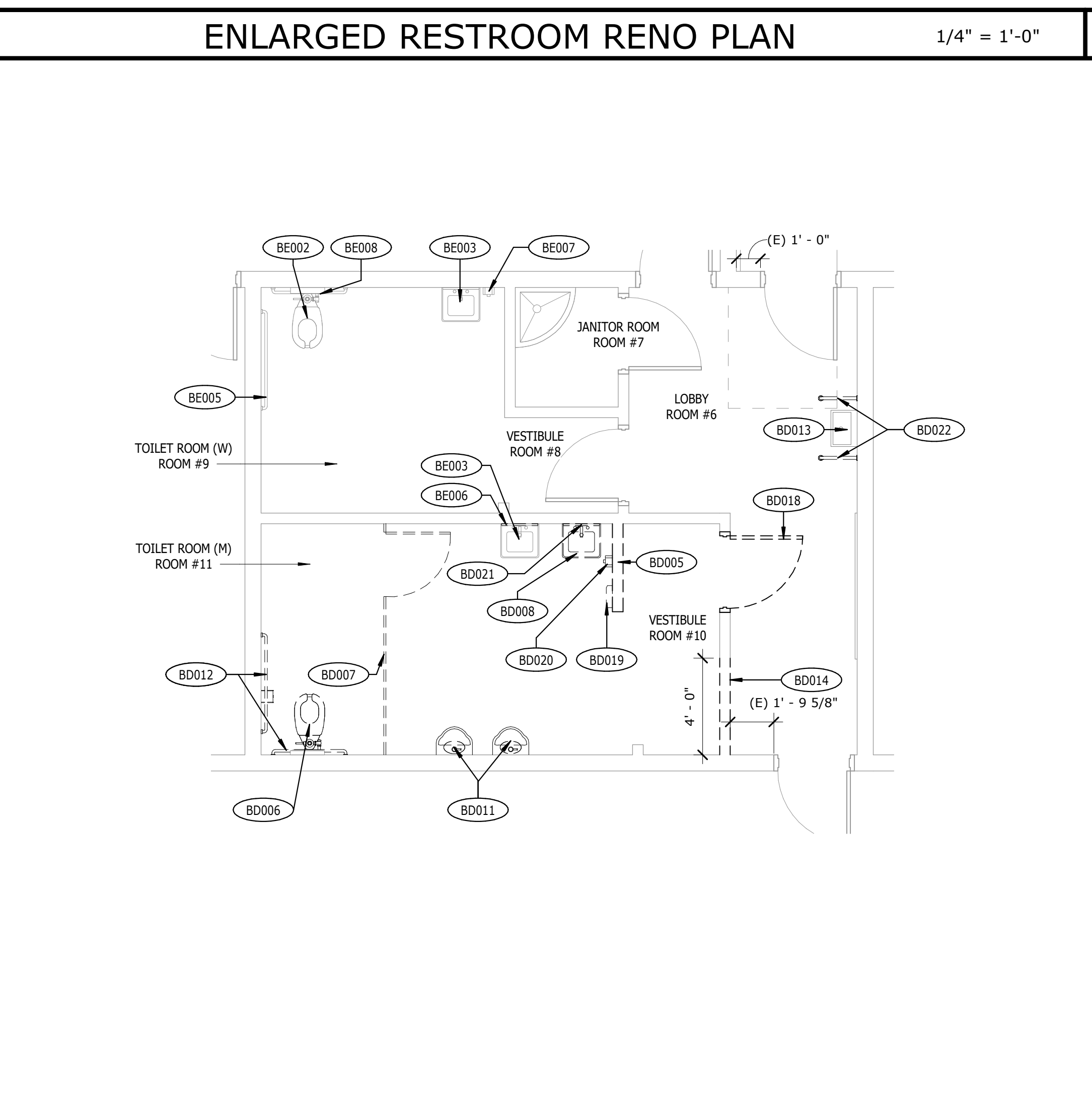
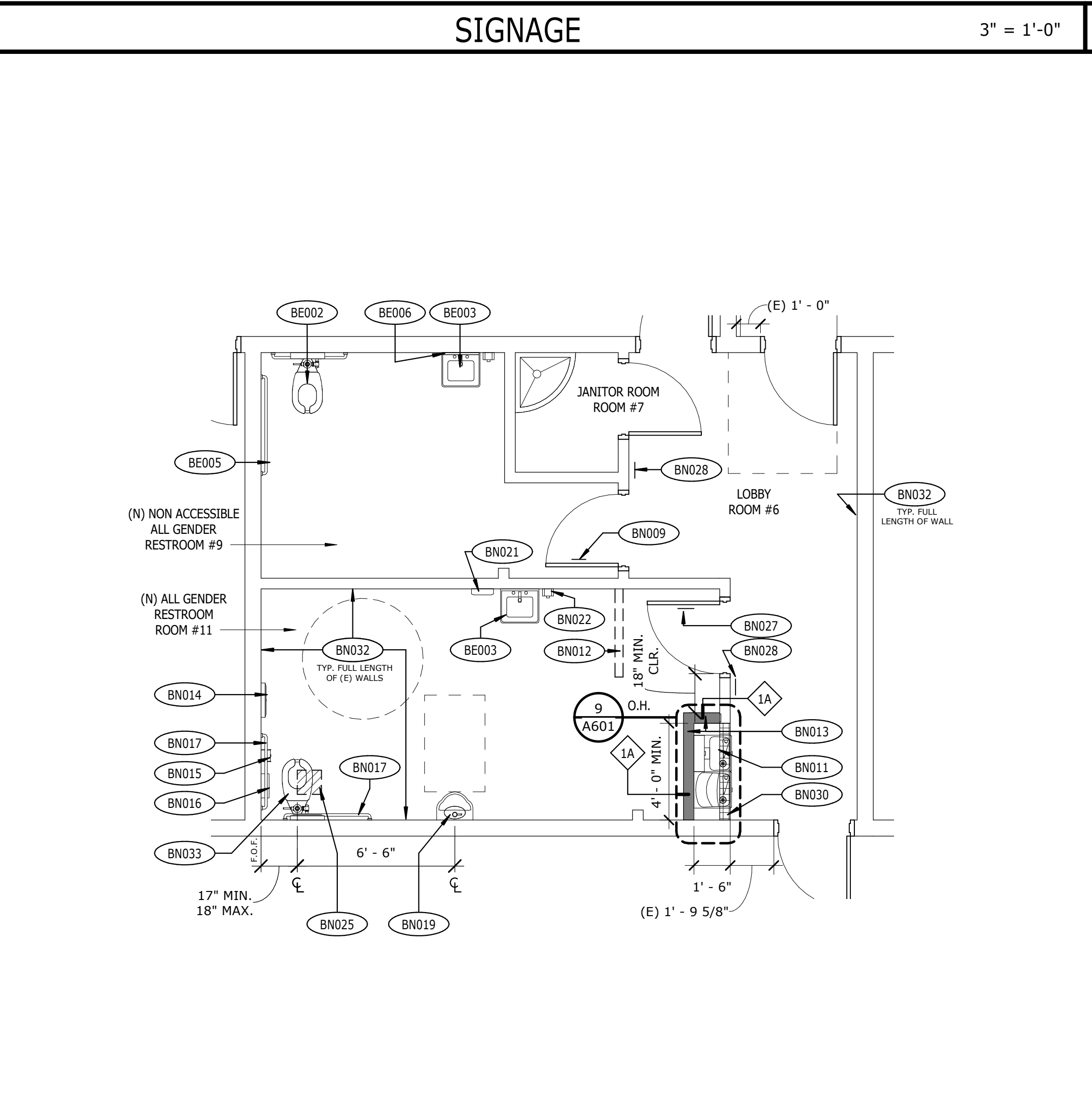
BRAILLE, SEE DETAIL 7/A601

MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
DOT BASE DIAMETER	0.059 (1.5mm) TO 0.063 (1.6mm)
DISTANCE BETWEEN TWO DOTS IN THE SAME CELL PER NOTE #1	0.100 (2.5mm)
DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS PER NOTE #1	0.300 (7.6mm)
DOT HEIGHT	0.025 (0.6mm) TO 0.037 (0.9mm)
DISTANCE MEASURED BETWEEN CORRESPONDING DOTS FROM ONE CELL BELOW PER NOTE #1	0.395 (10mm) TO 0.400 (10.2mm)

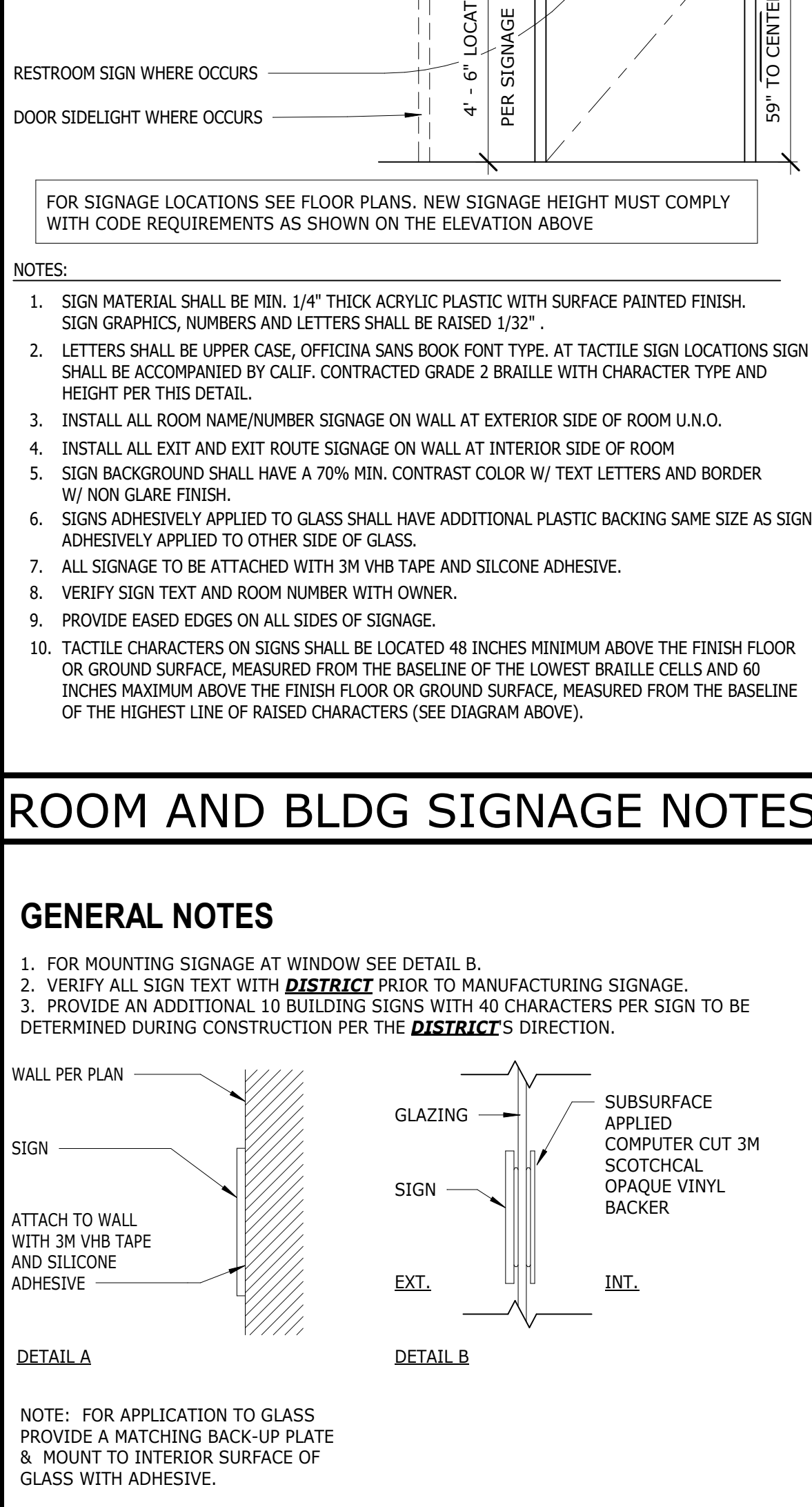
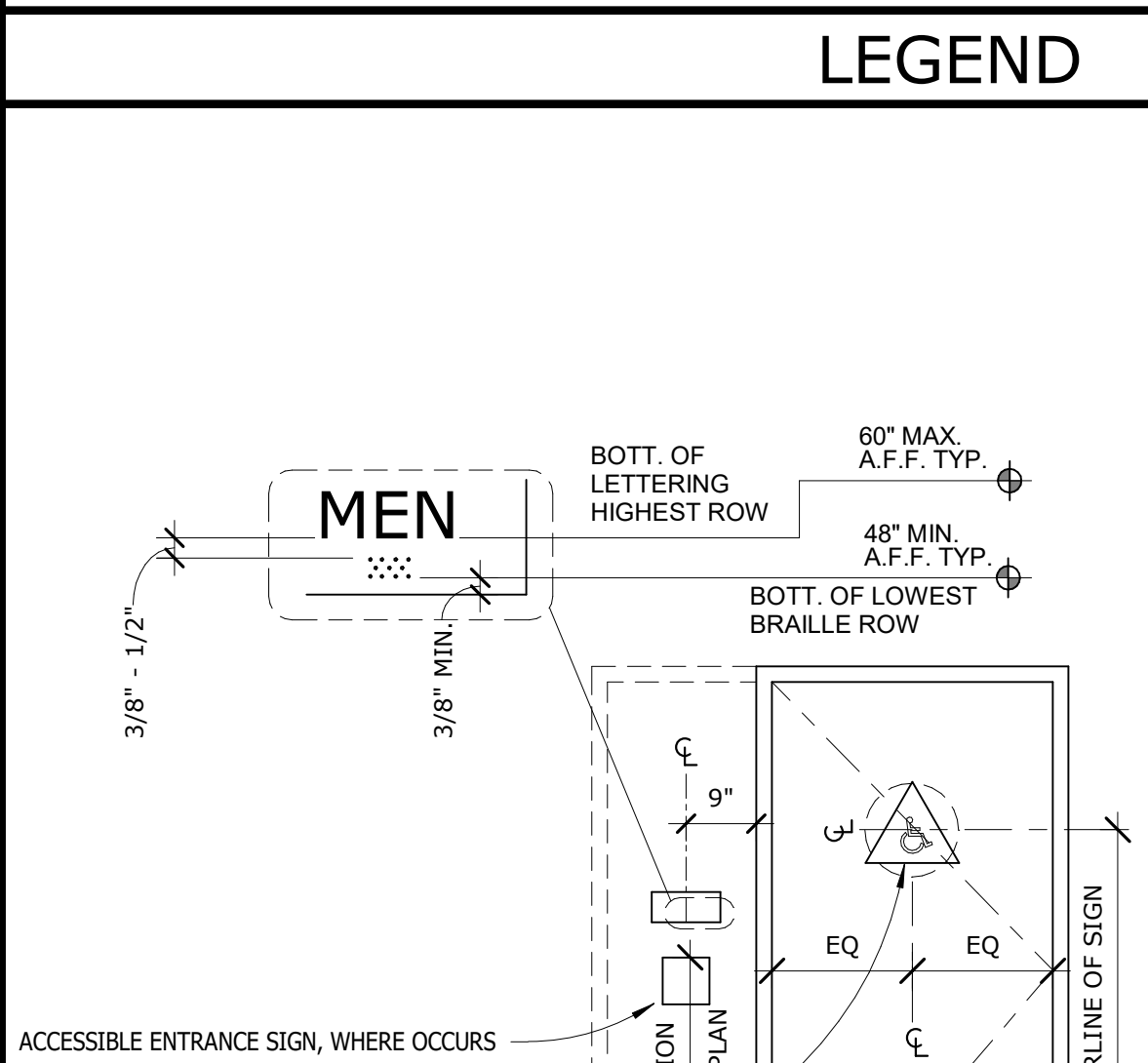
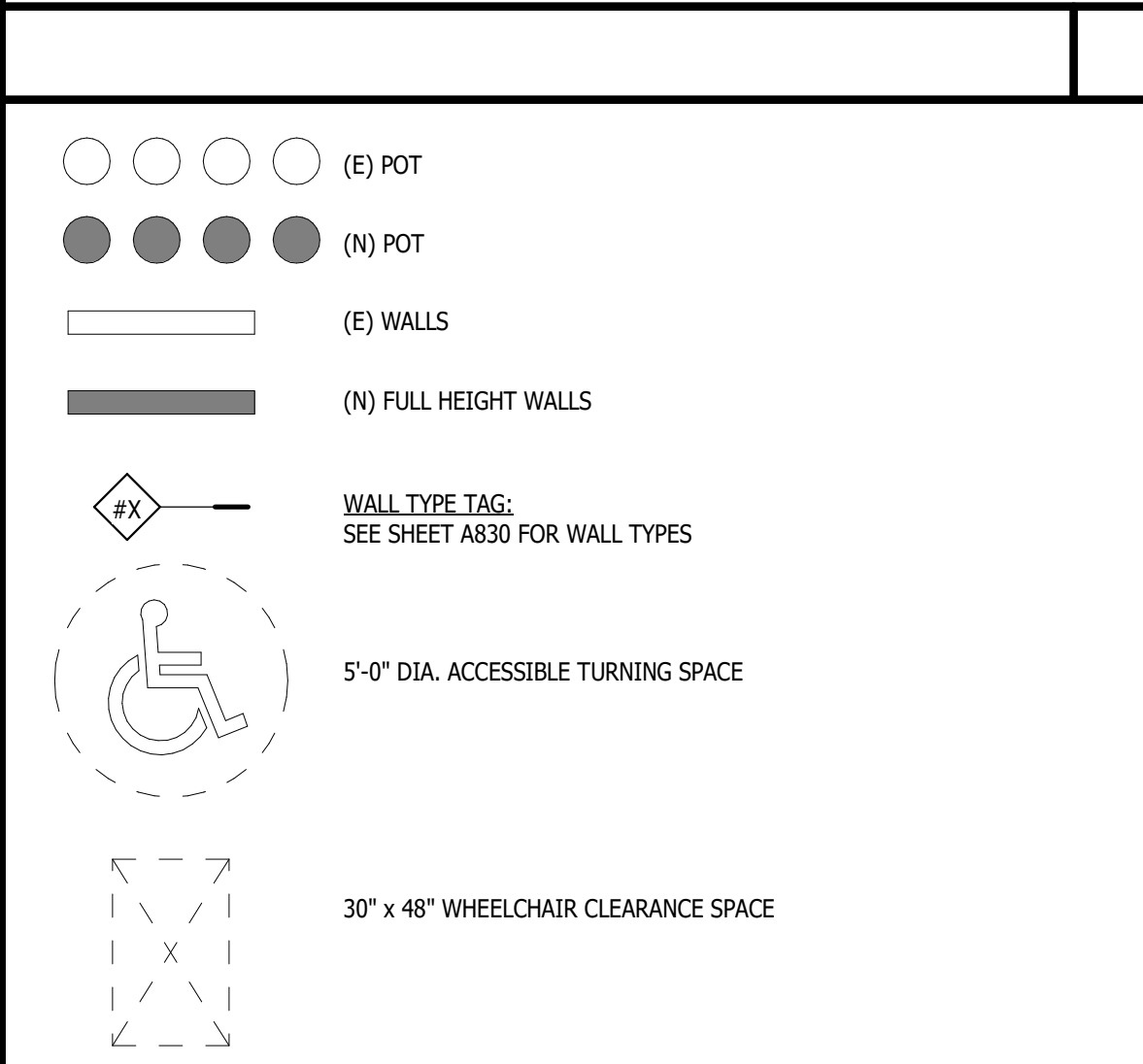
NOTE:  
1. MEASURED CENTER TO CENTER



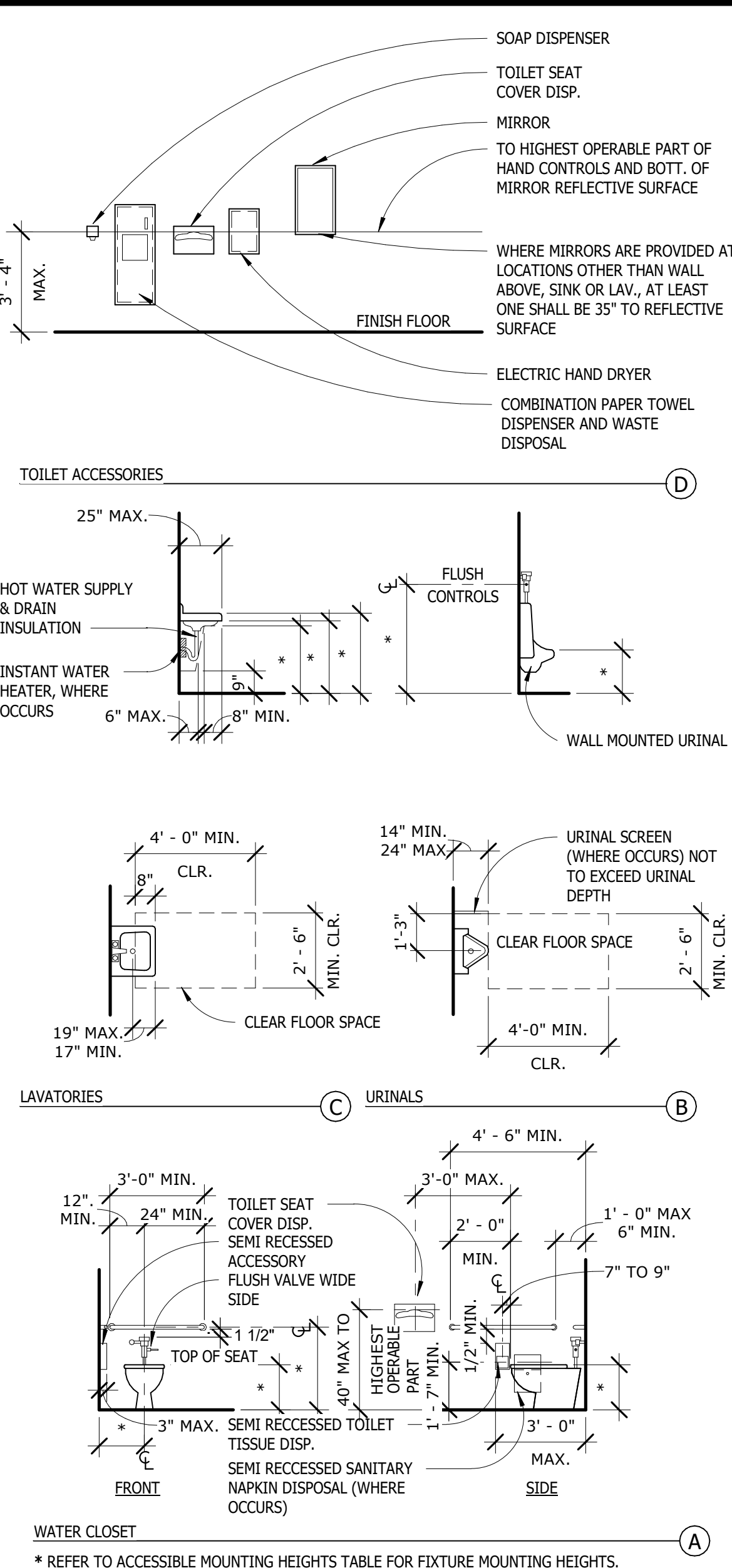
HI-LO DF @ WOOD STUDS 3/4" = 1'-0" 9



ENLARGED RESTROOM DEMO PLAN 1/4" = 1'-0" 1



ENLARGED RESTROOM DEMO PLAN 1/4" = 1'-0" 1



ITEM	MOUNTING DIMENSION
TOILET CENTERING FROM FINISH FACE OF WALL	17" TO 18"
TOILET SEAT HEIGHT/DIMENSION TO TOP OF SEAT	17" TO 19"
GRAB BAR HEIGHT (SIDE) - TO TOP	33" TO 36"
TOILET PAPER IN FRONT OF TOILET TO CENTERLINE OF DISP.	7" TO 9"
NAPKIN DISPOSAL IN FRONT OF TOILET	7" TO 9"
DISPENSER OR MIRROR HEIGHT	40" MAX.
LAVATORY/SINK TOP HEIGHT	34" MAX.
LAVATORY APRON CLEARANCE	29" MIN.
LAVATORY/SINK APRON KNEE CLEARANCE	27" MIN.
URINAL LIP HEIGHT	17" MAX.
URINAL FLUSH HANDLE HEIGHT	44" MAX.
DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.
RAMP/STAIR HANDRAIL HEIGHT	34" - 38"

ITEM	MOUNTING DIMENSION
TOILET CENTERING FROM FINISH FACE OF WALL	17" TO 18"
TOILET SEAT HEIGHT/DIMENSION TO TOP OF SEAT	17" TO 19"
GRAB BAR HEIGHT (SIDE) - TO TOP	33" TO 36"
TOILET PAPER IN FRONT OF TOILET TO CENTERLINE OF DISP.	7" TO 9"
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ENLARGED RESTROOM DEMO PLAN 1/4" = 1'-0" 1

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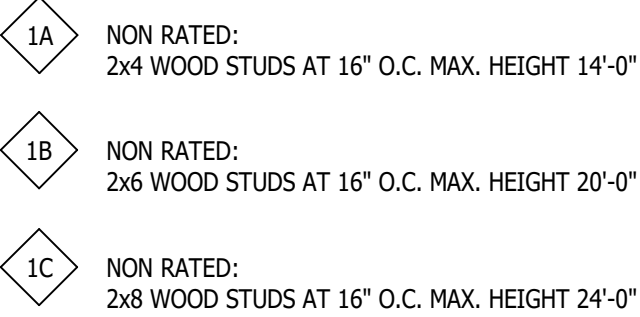
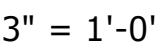
CLIENT: VENTURA COMMUNITY COLLEGE DISTRICT 761 E DAILY DR., CAMARILLO, CA 93010

JOB NO: 22052.01 DATE: 07/14/2023 DRAWN: Author CHECK: Checker ARCHITECT: PDW ENGINEER: SHEET DESCRIPTION: ENLARGED DEMO/RENO TOILET PLANS & DETAILS SHEET NO: A601





4


$$1\frac{1}{2}'' = 1'-0''$$

1

# A830



ABBREVIATIONS

THIS LIST IS FOR INFORMATION ONLY; OTHER ABBREVIATIONS MAY BE USED. ABBREVIATIONS THAT ARE UNCLEAR SHOULD BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER FOR CLARIFICATION.

AB	ANCHOR BOLT	MANUF	MANUFACTURER
ABV	ABOVE	MAX	MAXIMUM
ADD'L	ADDITIONAL	MECH'L	MECHANICAL
ADJ	ADJACENT	MTL	METAL
ALT	ALTERNATE	MIN	MINIMUM
ARCH'L	ARCHITECTURAL	MISC	MISCELLANEOUS
BLDG	BUILDING	N.S.	NEAR SIDE
BLK'G	BLOCKING	N/S	NORTH/SOUTH
BEL	BELOW	N.S.A.	NELSON STUD ANCHOR
BM	BEAM	N.S.G	NON-SHRINK GROUT
BOTT	BOTTOM	NTS	NOT TO SCALE
BTWN	BETWEEN	O/	OVER
C	CHANNEL, C-STUD or CAMBER	OC	ON CENTER
CANT	CANTILEVER	OD	OUTSIDE DIAMETER
CIP	CAST-IN-PLACE CONCRETE	OF	OUTSIDE FACE
C.J.	CONSTRUCTION JOINT or CONTROL JOINT	OH	OPPOSITE HAND
	CENTERLINE	OPN'G	OPENING
CLR	CLEAR	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	ORIG	ORIGINAL
COL	COLUMN	PERP	PERPENDICULAR
CONC	CONCRETE	PF	PAF FOOTING
CONN	CONNECTION	PL	PLATE
CONST	CONSTRUCTION	RAD	RADIUS
CONT	CONTINUOUS	REF	REFER, or REFERENCE
CT	COOLING TOWER	REINF	REINFORCING
DBL	DOUBLE	REQ'D	REQUIRED
DIA	DIAMETER	REV	REVISED, or REVISION
DIAG	DIAGONAL	RO	ROUGH OPENING
DIM	DIMENSION	S.A.D.	SEE ARCHITECTURAL DRAWINGS
DO	DITTO (REPEAT)	SCHED	SCHEDULE
D.S.	DRAG STRUT	SHT	SHEET
DSA	DIVISION OF THE STATE ARCHITECT	SIM.	SIMILAR
DTL	DETAIL	S.J.	SISTER JOIST
DRWGS	DRAWINGS	S.M.D.	SEE MECHANICAL DRAWINGS
DWL	DOWEL	S.O.G.	SLAB-ON-GRADE
(E)	EXISTING CONDITION	SQ	SQUARE
EA	EACH	SSL	SHORT-SLOTTED HOLES
EF	EACH FACE	STAGG	STAGGER
EJ	EXPANSION JOINT	STD	STANDARD
ELEV	ELEVATOR or ELEVATION	STIFF	STIFFENER
EN	EDGE NAIL	STL	STEEL
EOS	EDGE OF SLAB	STR	STRUCTURE, or STRUCTURAL
EQ	EQUAL	SYM	SYMMETRICAL
EQUIP	EQUIPMENT	T & G	TOUGUE AND GROOVE
ES	EACH SIDE	THK	THICK
E.W.	EACH WAY	THRD	THREAD, or THREADED
E/W	EAST/WEST	T.O.C.	TOP OF CONCRETE
EXT	EXTERIOR	T.O.F.	TOP OF FOOTING
FF	FINISH FLOOR	T.O.S.	TOP OF STEEL
FG	FINISH GRADE	T.O.W.	TOP OF WALL
FIN	FINISH	TSG	TAPERED STEEL GIRDER
FJ	FLOOR JOIST	TYP	TYPICAL
FLR	FLOOR	UNO	UNLESS NOTED OTHERWISE
FND	FOUNDATION	VERT	VERTICAL
FOC	FACE OF CONCRETE	VIF	VERIFY IN FIELD
F.S.	FAR SIDE	VS	VERTICAL SLOT
FT	FOOT or FEET	VSC	VERTICAL SIDE CLIP
FTG	FOOTING	W	WIDE FLANGE, or WEST
FW	FILLET WELD	W/	WITH
GA	GAGE or GAUGE	W/O	WITHOUT
G.B.	GRADE BEAM	WP	WORK POINT
HOG	HOT-DIPPED GALVANIZED	⊙	AT
HORIZ	HORIZONTAL	#	NUMBER, or POUNDS
HT	HEIGHT	>	GREATER THAN
ID	INSIDE DIAMETER	<	LESS THAN
IF	INSIDE FACE		
INFO	INFORMATION		
JT	JOINT		
L	ANGLE or ANGLE IRON		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LONG	LONGITUDINAL		
LSH	LONG SIDE HORIZONTAL		
LSV	LONG SIDE VERTICAL		

GENERAL SYMBOLS

	SECTION REFERENCE BUBBLE
	DETAIL REFERENCE BUBBLE WITH ARROW
	DETAIL REFERENCE BUBBLE

SHEET INDEX (2 SHEETS TOTAL)

SHEET NO.	DESCRIPTION
S100	STRUCTURAL NOTES AND INFORMATION
S101	STRUCTURAL PLAN AND DETAILS

PROJECT DESIGN CRITERIA

- CODE: CALIFORNIA BUILDING CODE, 2022 EDITION AND STANDARDS REFERENCED THEREIN.
- STRUCTURAL DESIGN INFORMATION:

DESIGN LOADS	DATA
SNOW LOAD	ZERO

EARTHQUAKE DESIGN	DATA
RISK CATEGORY	II
SEISMIC IMPORTANCE FACTOR	$I_e = 1.00, I_p = 1.00$
MAPPED SPECTRAL RESPONSE ACCELERATIONS	$S_S = 1.592g, S_1 = 0.585g$
SITE CLASS	D
SPECTRAL RESPONSE COEFFICIENT	$S_{DS} = 1.274g$
SEISMIC DESIGN CATEGORY	D
SEISMIC COEFFICIENTS (LIFT)	$a_p=2.5, R_p=2.5, \Omega_{MGAo}=2.0$ PER DSA-90 CODE INTERPRETATIONS REPORTING AND TRACKING DOCUMENT

WIND DESIGN	DATA
BASIC WIND SPEED (3-SEC GUST)	$V_{ult} = 95$ MPH
RISK CATEGORY	II
WIND EXPOSURE	C

CAST-IN-PLACE CONCRETE

- CONCRETE PLACEMENT AND QUALITY SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS IN ACI 318-19.
- ALL CEMENT SHALL CONFORM TO ASTM C-150, TYPE II/V.
- FINE AND COARSE AGGREGATE SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE. PEA GRAVEL IS NOT ACCEPTABLE UNLESS NOTED OTHERWISE.
- ALL AGGREGATE SHRINKAGE SHALL BE IN ACCORDANCE WITH ASTM C-157 WITH AN AVERAGE DRYING SHRINKAGE AT 28 DAYS NOT EXCEEDING 0.06%.
- CONCRETE QUALITY:

CONCRETE USE	CONC. STRENGTH f'c AT 28 DAYS	MAXIMUM WATER/ CEMENT	MAX. SLUMP	MAXIMUM AGGRE. SIZE	WEIGHT
SLABS & FOUNDATION	4500 PSI	.45	4"	1"	NORMAL WEIGHT (145 PCF)
- ANCHOR BOLTS, DOWELS, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO FOUNDATION INSPECTION AND PLACING CONCRETE.
- CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION CONTINUOUSLY FOR THE FIRST 10 DAYS AFTER PLACEMENT UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- WHERE NEW CONCRETE IS TO BE PLACED AGAINST HARDENED CONCRETE, CONCRETE SURFACES SHALL BE ROUGHENED TO AN AMPLITUDE OF 1/4-INCH CLEAN EXPOSED AGGREGATE AND FREE OF LAITANCE PRIOR TO SECOND POUR. TYPICAL UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- CONDUITS SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE STRUCTURAL ENGINEER.
- SUBMITTALS: FOR ALL CONCRETE MIX DESIGNS AND CYLINDER TEST REPORTS. CONCRETE MIX DESIGN SHALL BE STAMPED AND SIGNED BY A LICENSED CIVIL ENGINEER.

REINFORCING STEEL

- ALL REINFORCING STEEL SHALL BE DEFORMED BARS IN CONFORMANCE WITH ASTM A-615, GRADE 60 KSI, UNLESS NOTED OTHERWISE.
- ALL BARS SHALL BE FREE OF LOOSE FLAKY RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND.
- ALL BENDS SHALL BE MADE COLD.
- ALL REINFORCING STEEL SHALL BE CONTINUOUS UNLESS NOTED OTHERWISE.
- ALL REINFORCING BARS SHALL BE ACCURATELY AND RIGIDLY HELD IN PLACE BEFORE PLACING CONCRETE. REINFORCING SUPPORTS AND SPACERS SHALL BE PROVIDED BY THE CONTRACTOR.
- SUBMITTALS: REINFORCING STEEL SHOP DRAWINGS AND REINFORCING STEEL MATERIAL AND MILL TEST CERTIFICATIONS.
- REINFORCING STEEL SHOP DRAWINGS SHALL NOT CONTAIN ANY REPRODUCTION OF THE STRUCTURAL DRAWINGS.

GENERAL STRUCTURAL SCOPE OF WORK

THE STRUCTURAL SCOPE OF WORK ASSOCIATED WITH THIS PROJECT ARE TO INFILL AN EXISTING AUTOMOTIVE PIT AND INSTALLATION OF ONE 10,000-LB CAPACITY IN-GROUND AUTOMOTIVE LIFT.

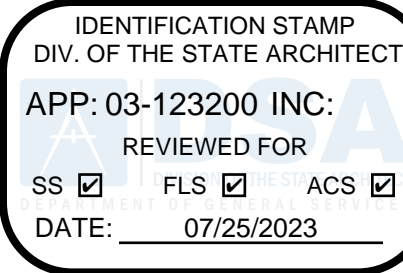
GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS BEFORE STARTING WORK. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS OR IN THE SPECIFICATIONS OR ANY VARIATIONS NEEDED IN ORDER TO CONFORM TO CODES, RULES AND REGULATIONS. ANY SUCH DISCREPANCY, OMISSION, OR VARIATION NOT REPORTED SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DIMENSIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. TYPICAL DETAILS AND GENERAL NOTES ARE MINIMUM REQUIREMENTS TO BE USED WHEN CONDITIONS ARE NOT SHOWN OTHERWISE. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK.
- WHERE MEMBER LOCATIONS ARE NOT SPECIFICALLY DIMENSIONED, MEMBERS ARE LOCATED EITHER ON COLUMN LINES OR EQUALLY SPACED BETWEEN MEMBERS ON COLUMN LINES OR BETWEEN MEMBER OTHERWISE LOCATED.
- ALL WORK AND MATERIALS SHALL CONFORM TO THE MINIMUM STANDARDS OF THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE, AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- THE CONTRACT STRUCTURAL DRAWINGS 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 THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING.

FOUNDATION NOTES

- ALL EXCAVATION, RECOMPACTION, AND GRADING SHALL BE OBSERVED BY A SOILS ENGINEER.
- ALLOWABLE DESIGN SOIL BEARING CAPACITY USED EQUAL TO 1,500 PSF. A ONE-THIRD INCREASE ALLOWED FOR SHORT TERM LOADING.
- LATERAL LOADS ARE RESISTED BY FRICTION AND PASSIVE PRESSURE. A FRICTION COEFFICIENT OF 0.20 AND PASSIVE EARTH PRESSURE OF 100 PSF ARE USED FOR THE FOUNDATION-SOIL INTERFACE.
- EXCAVATIONS ADJACENT TO EXISTING BUILDINGS OR WALLS WHICH EXTEND BELOW AN ANGLE OF 2:1 (HORIZONTAL : VERTICAL) 9" FROM THE BOTTOM OF THE FOOTINGS SHALL BE ADEQUATELY SHORED BY THE CONTRACTOR.
- SEE ARCHITECTURAL AND OTHER PROJECT DRAWINGS AND COORDINATE WORK WITH OTHER TRADES WITH REGARDS TO CONDUIT AND PIPING LOCATIONS BEFORE BEGINNING EXCAVATION AND BEFORE PLACING CONCRETE.
- CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITY WORK TO AVOID CONFLICTS WITH THE FOUNDATIONS.

STATE:



ARCHITECT:



CONSULTANT:



CONSULTING STRUCTURAL ENGINEERS  
641 S. Covered Wagon Trail  
Azusa, CA 91707  
TELEPHONE: 714.988.2200  
WWW.RENG.COM



Date Signed: 7/20/2023

PROJECT NAME:

OXNARD COLLEGE AUTO TECH  
VEHICLE LIFT ADDITION  
4000 S ROSE AVE.  
OXNARD, CA 93033

VENTURA COMMUNITY  
COLLEGE DISTRICT

781 E. DAILY DR.,  
CAMARILLO, 93010

Rev.	Date	Description
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JOB NO: 22052.01

DATE: 7-14-2023

DRAWN: PP

CHECK: ER

ARCHITECT: --

ENGINEER: ER

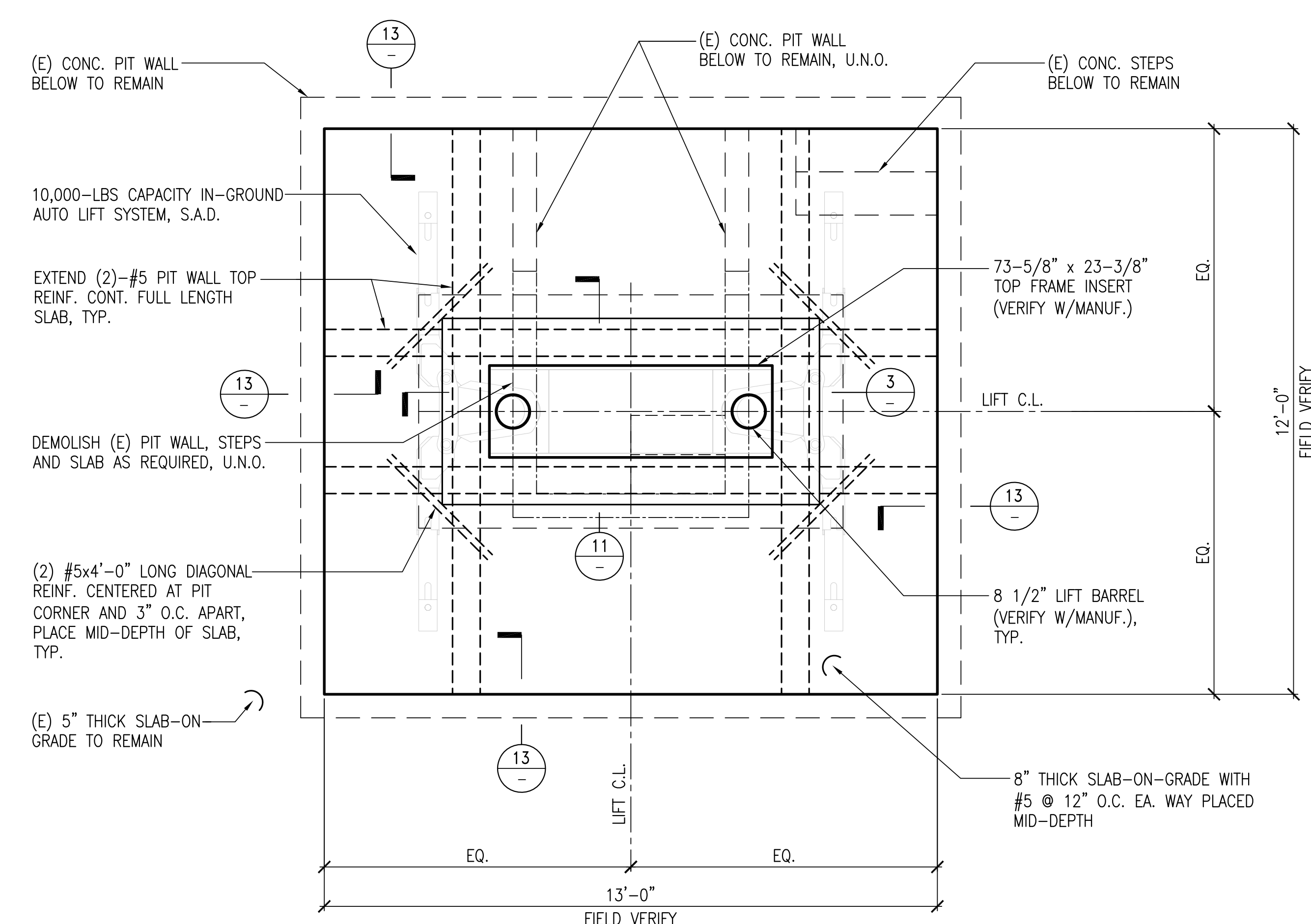
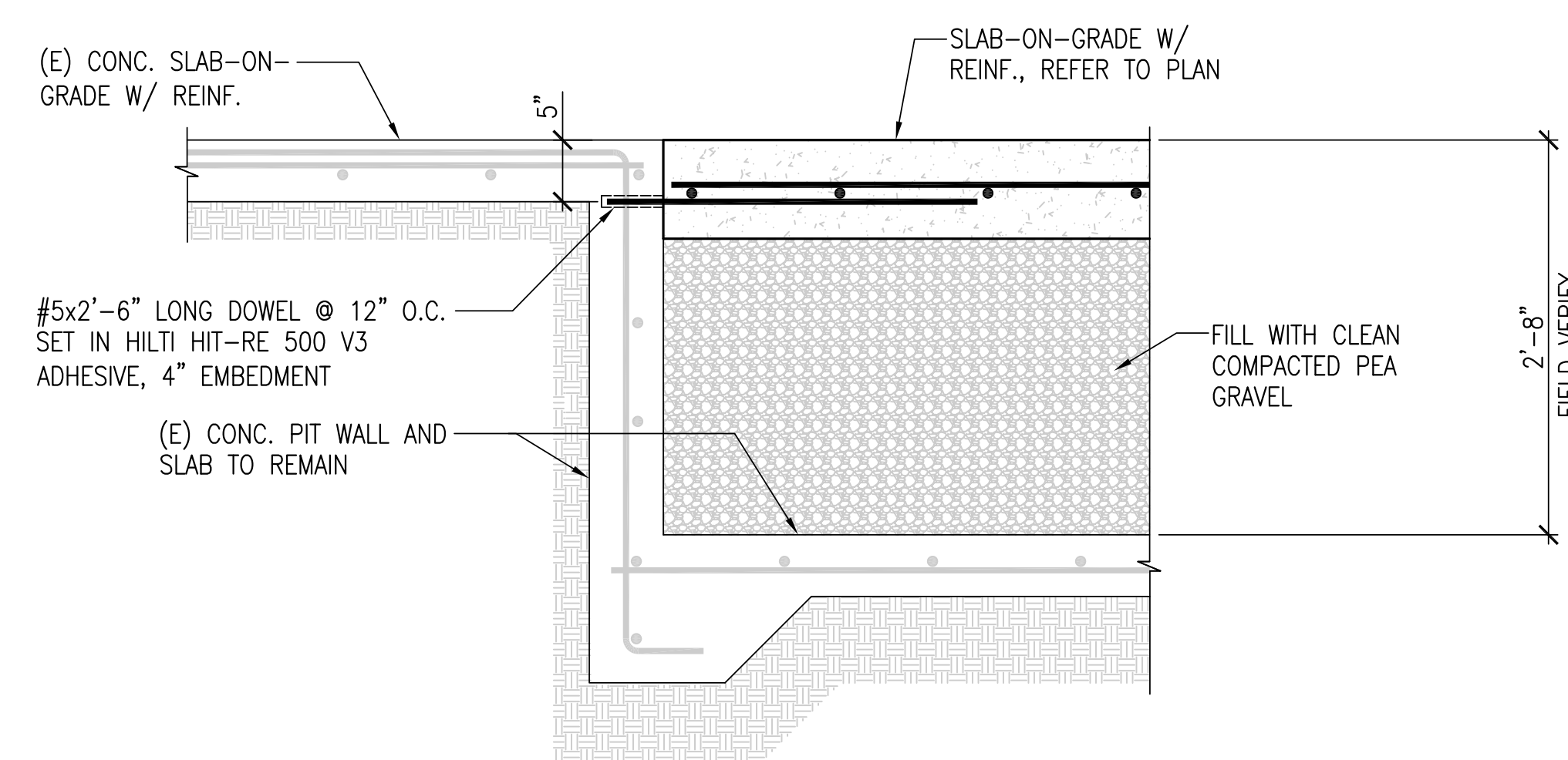
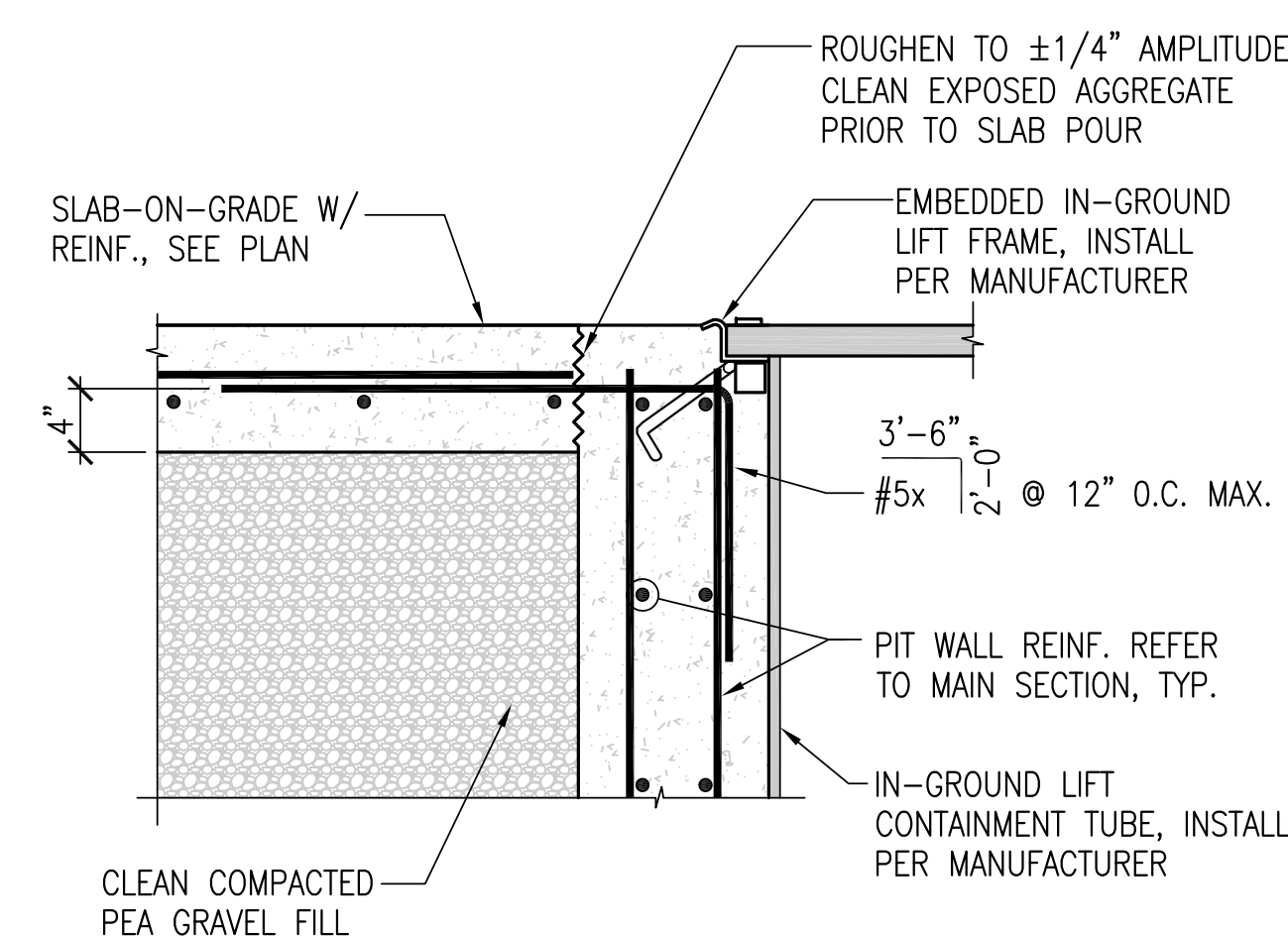
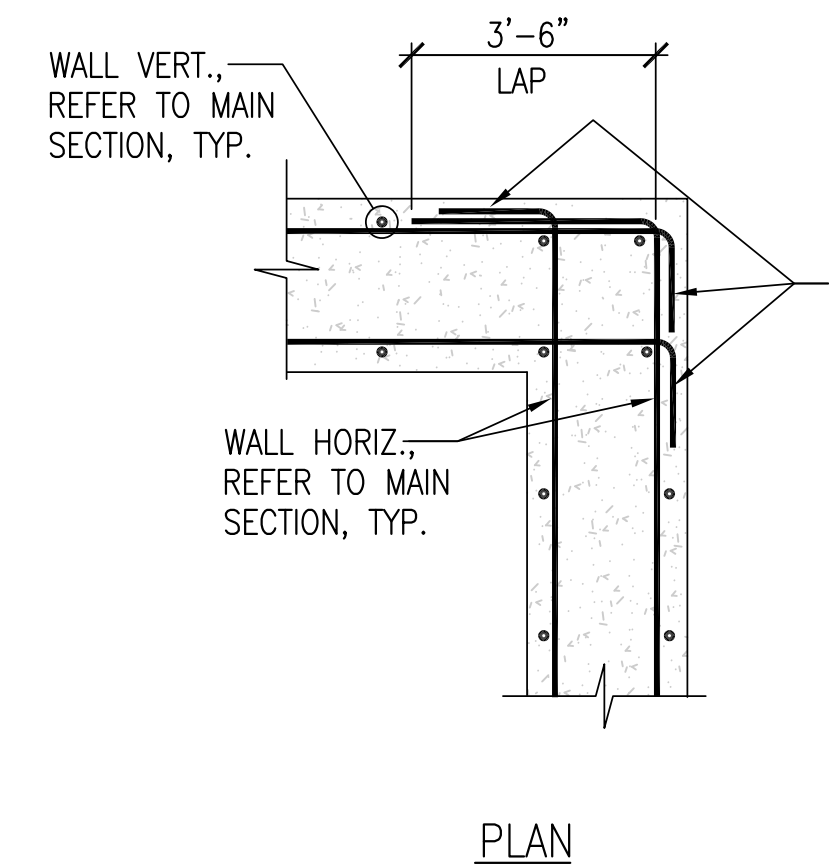
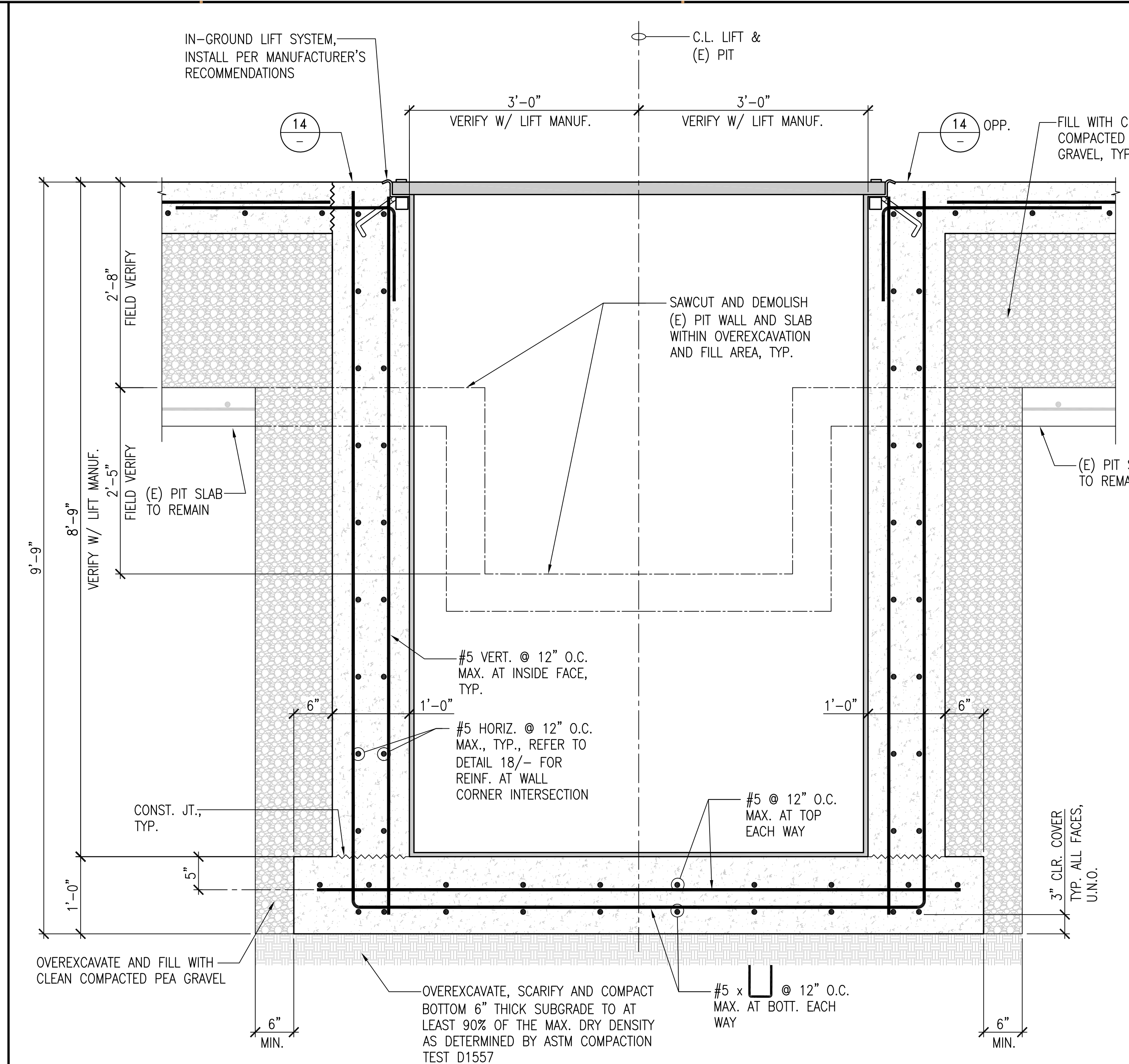
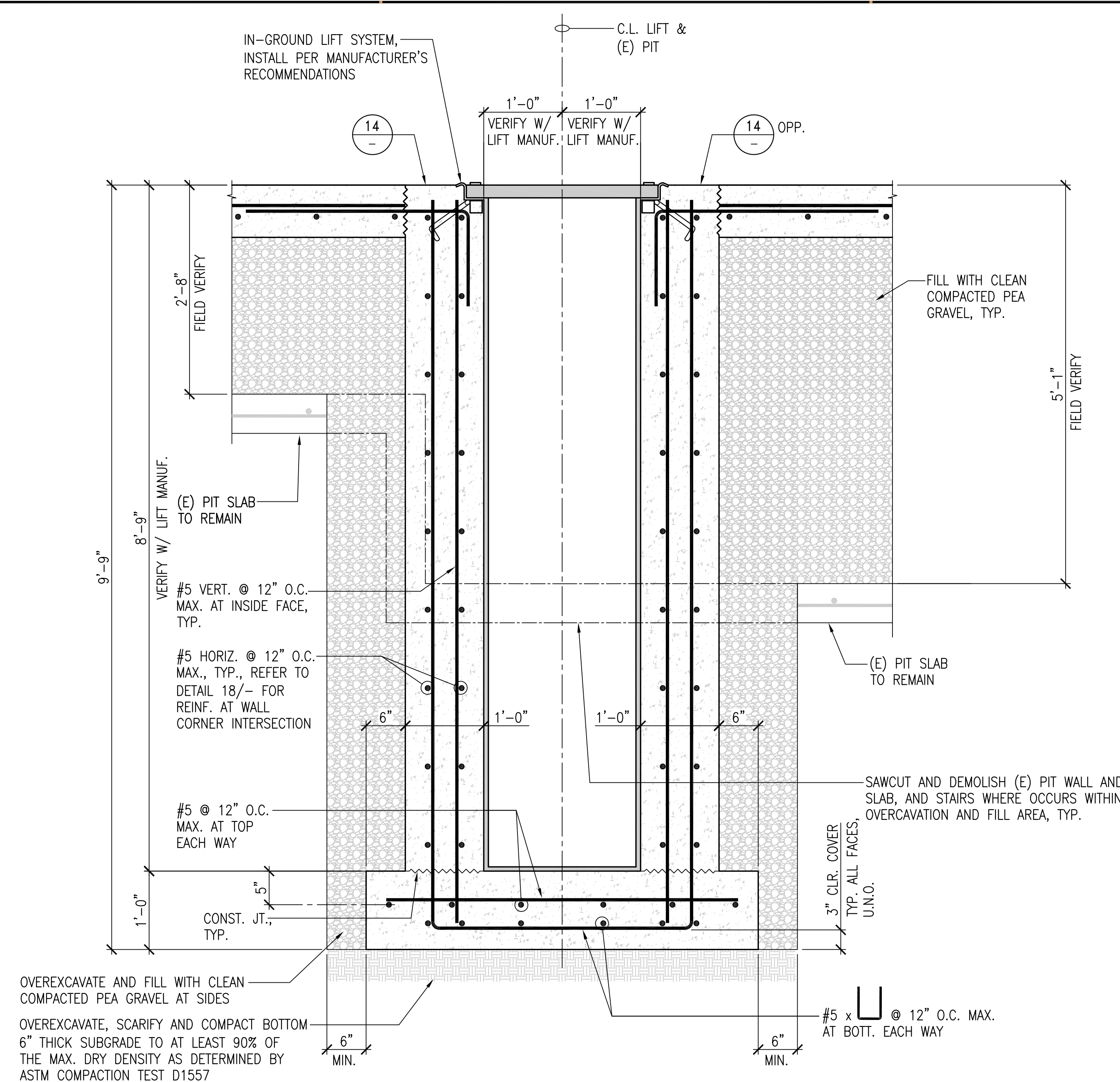
SHEET DESCRIPTION:

STRUCTURAL NOTES  
AND INFORMATION

SHEET NO:

S100





- NOTES:

1. REFER TO SHEET S100 FOR STRUCTURAL NOTES AND INFORMATION.
2. REFER TO ARCHITECTURAL AND OTHER PROJECT DRAWINGS FOR OTHER INFORMATION NOT INDICATED IN THESE STRUCTURAL DRAWINGS AND DETAILS.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITY LINES PRIOR TO FOUNDATION EXCAVATION. NOTIFY ARCHITECT OF ANY CONFLICTS FOUND SO FURTHER CLARIFICATIONS CAN BE MADE.

DATE:

IDENTIFICATION STAMP  
OF THE STATE ARCHITECT  
03-123200 INC:  
REVIEWED FOR  
FLS ☒ ACS ☒  
07/25/2023

ARCHITECT:



architecture  
estbergwhite  
7700 IRVINE CENTER DRIVE, SUITE 100  
IRVINE, CA 92618  
(714) 508-1780 508-1790 FAX

CONSULTANT:



**RODRIGUEZ**  
ENGINEERING  
CONSULTING STRUCTURAL ENGINEERS  
641 S. Covered Wagon Trail  
Anaheim, CA 92807

PHONE: 714.998.2300  
WWW.RENGI.COM



ate Signed: 7/20/2023

PROJECT NAME:

**VEHICLE LIFT ADDITION**  
4000 S ROSE AVE.  
OXNARD, CA 93033

VENTURA COMMUNITY  
COLLEGE DISTRICT

781 E. DAILY DR.,  
AMARILLO, 93010

	Rev. Date	Description
DRAWING NO:	22052.01	
DATE:	7-14-2023	
DRAWN BY:	PP	
CHECKED BY:	ER	
DESIGNED BY:	--	
ENGINEER:	ER	
DETAILED DESCRIPTION:		
<b>STRUCTURAL PLAN AND DETAILS</b>		
REVISIONS:		

101



ELECTRICAL SYMBOL LIST	
SYMBOL:	DESCRIPTION:
	GROUND BUS
	INTERSYSTEM BONDING TERMINATION
	ELECTRICAL CONNECTION
	JUNCTION BOX
	FLOOR BOX or POKE THROUGH
	MULTI OUTLET SYSTEM
	ELECTRICAL WIREWAY w/ DEVICES SHOWN
	PANELBOARD - RECESS MOUNT
	PANELBOARD - SURFACE MOUNT
	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. REFER TO DISC/STA SCHEDULE
	ISOLATED POWER PANEL
	TRANSFORMER. REFER TO TRANSFORMER SCHEDULE
	CIRCUIT BREAKER - SURFACE MOUNTED. REFER TO DISC/STA SCHEDULE
	CIRCUIT BREAKER - FLUSH MOUNTED. REFER TO DISC/STA SCHEDULE
	DISCONNECT. REFER TO DISC/STA SCHEDULE
	MOBILE DIAGNOSTICS SERVICE DISCONNECT. REFER TO DISC/STA SCHEDULE
	DUPLEX RECEPTACLE CONTROLLED BY OCCUPANCY
	QUAD RECEPTACLE CONTROLLED BY OCCUPANCY
	DUPLEX RECEPTACLE, 125V
	DUPLEX GFI RECEPTACLE, 125V
	GROUND FAULT DEVICE
	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	DUPLEX RECEPTACLE, EXPLOSION PROOF, 125V
	ISOLATED GROUND RECEPTACLE, 125V
	ISOLATED GROUND RECEPTACLE WITH SURGE SUPPRESSION, 125V
	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V
	SWITCH - SINGLE POLE
	INDUSTRIAL LUMINAIRE
	WALL BRACKET LUMINAIRE
	SINGLE FACE EXIT SIGN
	DOUBLE FACE EXIT SIGN
	WALL/CEILING EMERGENCY EXIT SIGN
	EMERGENCY UNIT

ELECTRICAL SHEET INDEX	
E001	ELECTRICAL COVERSHEET
E002	SINGLE LINE DIAGRAM AND PANEL SCHEDULES
E003	ELECTRICAL SPECIFICATIONS
E201	DEMOLITION AND REMODEL PLANS
E202	ENLARGED DEMOLITION AND REMODEL RESTROOM PLANS
E301	ELECTRICAL DETAILS
GRAND TOTAL: 6	

APPLICABLE CODES	
CONTRACTOR SHALL COMPLY WITH APPLICABLE CODES AND LOCAL AMENDMENTS.	
<b>2022</b> CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1	
<b>2022</b> California building code (CBC) California code of regulations (CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 2) (w/ 24, part 2 ( <b>2018</b> international building code (IBC) w/ <b>2019</b> California amendments)	
<b>2022</b> CALIFORNIA ELECTRICAL CODE (CEC) CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3 ( <b>2017</b> NATIONAL ELECTRICAL CODE (NEC) w/ <b>[2019]</b> CALIFORNIA AMENDMENTS)	
<b>2022</b> CALIFORNIA ENERGY CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6	
<b>2022</b> CALIFORNIA FIRE CODE (CFC) CALIFORNIA CODES OF REGULATIONS (CCR) TITLE 24, PART 9 ( <b>2018</b> INTERNATIONAL FIRE CODE (IFC) w/ <b>[2019]</b> CALIFORNIA AMENDMENTS)	
<b>2022</b> CALIFORNIA EXISTING BUILDING CODE CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10 ( <b>2022</b> INTERNATIONAL EXISTING BUILDING CODE (IEBC))	
<b>2022</b> CALIFORNIA REFERENCES STANDARDS CODE CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12	
AMERICANS WITH DISABILITIES ACT (ADA) TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG) <b>2019</b> STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE	
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19 <b>2022</b> CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN), PART II, TITLE 24 C.C.R	
NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS <b>2016</b> EDITION (CA AMENDED)	
NFPA 14 STANDARDS FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS <b>2019</b> EDITION (CA AMENDED)	
NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE <b>2019</b> EDITION (CA AMENDED)	

ELECTRICAL ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

VIEW KEY	
	NAME 10'-0" HEIGHT ABOVE PROJECT 0'-0"
	LEVEL NAME HEIGHT ABOVE PROJECT 0'-0"
	INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL
	INDICATES DIRECTION OF TRUE NORTH
	PLAN OR DETAIL NUMBER
	PLAN OR DETAIL NAME
	1/8" = 1'-0"
	PLAN OR DETAIL SCALE
	INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS
	DETAIL REFERRED TO BY SECTION CUT
	SHEET DETAIL IS LOCATED ON
LINE TYPE AND TAG KEY:	
NEW WORK BY THIS CONTRACTOR (WIDE LINE)	
NEW	
EXISTING TO BE REMOVED (SHORT DASHED PATTERN)	
NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
EXISTING TO REMAIN OR WORK BY OTHERS (NARROW LINE)	
EXISTING	
EXISTING TO BE REMOVED BY OTHERS (SHORT DASHED PATTERN)	
EXISTING UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)	
HALFTONING DOES NOT MODIFY SCOPE.	
TAG-E TAGS WITH DASH 'E' INDICATES THE REFERENCED OBJECT IS EXISTING	
TAG UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST	
INDICATES AN EXISTING SYSTEMS POINT OF CONNECTION/REMOVAL	

### ELECTRICAL INSTALLATION NOTES:

- THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
- CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
- ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- ELECTRICAL IDENTIFICATION. REFER TO SPECIFICATION SECTION 26 05 53 FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

Applicable Code: 2022 CBC 02/05/2020 Revised: 02/14/2020

#### MEP Component Anchorage Note

All mechanical, plumbing, and electrical components shall be anchored and installed per the details on the DSA-approved construction documents. The following components shall be anchored or braced to meet the force and displacement requirements prescribed in the 2022 CBC Sections 1617A.1.18 through 1617A.1.26 and ASCE 7-16 Chapters 13, 26, and 30:

- All permanent equipment and components.
- Temporary, movable or mobile equipment that is permanently attached (e.g. hard wired) to the building utility services such as electricity, gas or water. "Permanently attached" shall include all electrical connections except plugs for 110/220 volt receptacles having a flexible cable.
- Temporary, movable or mobile equipment which is heavier than 400 pounds or has a center of mass located 4 feet or more above the adjacent floor or roof level that directly support the component is required to be restrained in a manner approved by DSA.

The following mechanical and electrical components shall be positively attached to the structure but need not demonstrate design compliance with the references noted above. These components shall have flexible connections provided between the component and associated ductwork, piping, and conduit. Flexible connections must allow movement in both transverse and longitudinal directions:

- Components weighing less than 400 pounds and having 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.

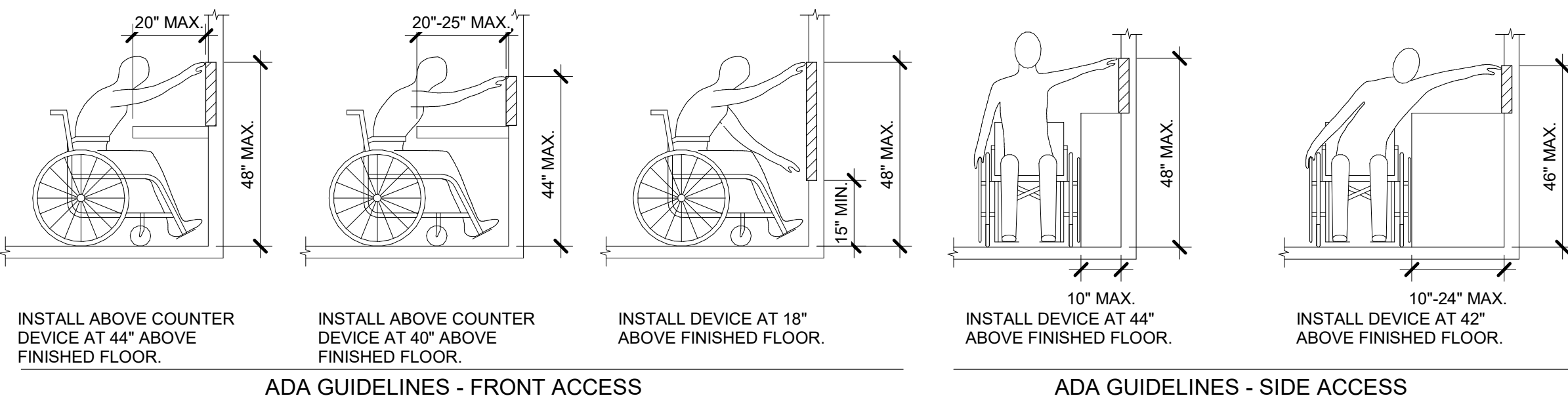
The anchorage of all mechanical, electrical and plumbing components shall be subject to the approval of the design professional in general responsible charge or structural engineer delegated responsibility and acceptance by DSA. The project inspector will verify that all components and equipment have been anchored in accordance with the above requirements.

#### Piping, Ductwork, and Electrical Distribution System Bracing Note

Piping, ductwork, and electrical distribution systems shall be braced to comply with the forces and displacements prescribed in ASCE 7-16 Section 13.3 as defined in ASCE 7-16 Sections 13.6.5, 13.6.6, 13.6.7, 13.6.8, and 2022 CBC, Sections 1617A.1.24, 1617A.1.25 and 1617A.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 preapproved installation guide (e.g., OSHPD OPM for 2013 CBC or later), 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 (MP), Mechanical Ducts (MD), Plumbing Piping (PP), Electrical Distribution Systems (E):  
MP \_\_\_ MD \_\_\_ PP \_\_\_ E \_\_\_ Option 1: Detailed on the approved drawings with project specific notes and details.  
MP \_\_\_ MD \_\_\_ PP \_\_\_ E \_\_\_ Option 2: Shall comply with the applicable OSHPD Pre-Approval (OPM #) #\_\_\_\_\_.



ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

### ADA STANDARDS FOR ACCESSIBLE DESIGN

STATE:

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-123200 INC:  
REVIEWED FOR:  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/25/2023

ARCHITECT:

**westberg white**  
architecture  
7700 IRVINE CENTER DRIVE, SUITE 100  
IRVINE, CA 92618  
(714) 508-1780 508-1790 FAX

CONSULTANT:

**IMEG**  
The Irvine, Full-Scale  
901 VIA PIEMONTE  
SUITE 400  
ONTARIO, CA 91764  
P: 909-477-8915 F: 909-477-8918  
PROJECT #22008917.00

REGISTERED PROFESSIONAL ENGINEER  
NORMAN C. IGUCHI  
Lic. E16834  
Exp. 6-30-2025  
ELECTRICAL  
California State Board of Electrical Engineering  
Professional Engineer  
Norman C. Iguchi

PROJECT NAME:

**OXNARD COLLEGE AUTO TECH  
VEHICLE LIFT ADDITION**  
4000 S ROSE AVE.  
OXNARD, CA 93033

CLIENT:

VENTURA COMMUNITY  
COLLEGE DISTRICT  
761 E DAILY DR.  
CAMARILLO, CA 93010

Rev. Date Description

JOB NO: 22052.01

DATE: April 17, 2023

DRAWN: VOM

CHECK: NCI

ARCHITECT: PDW

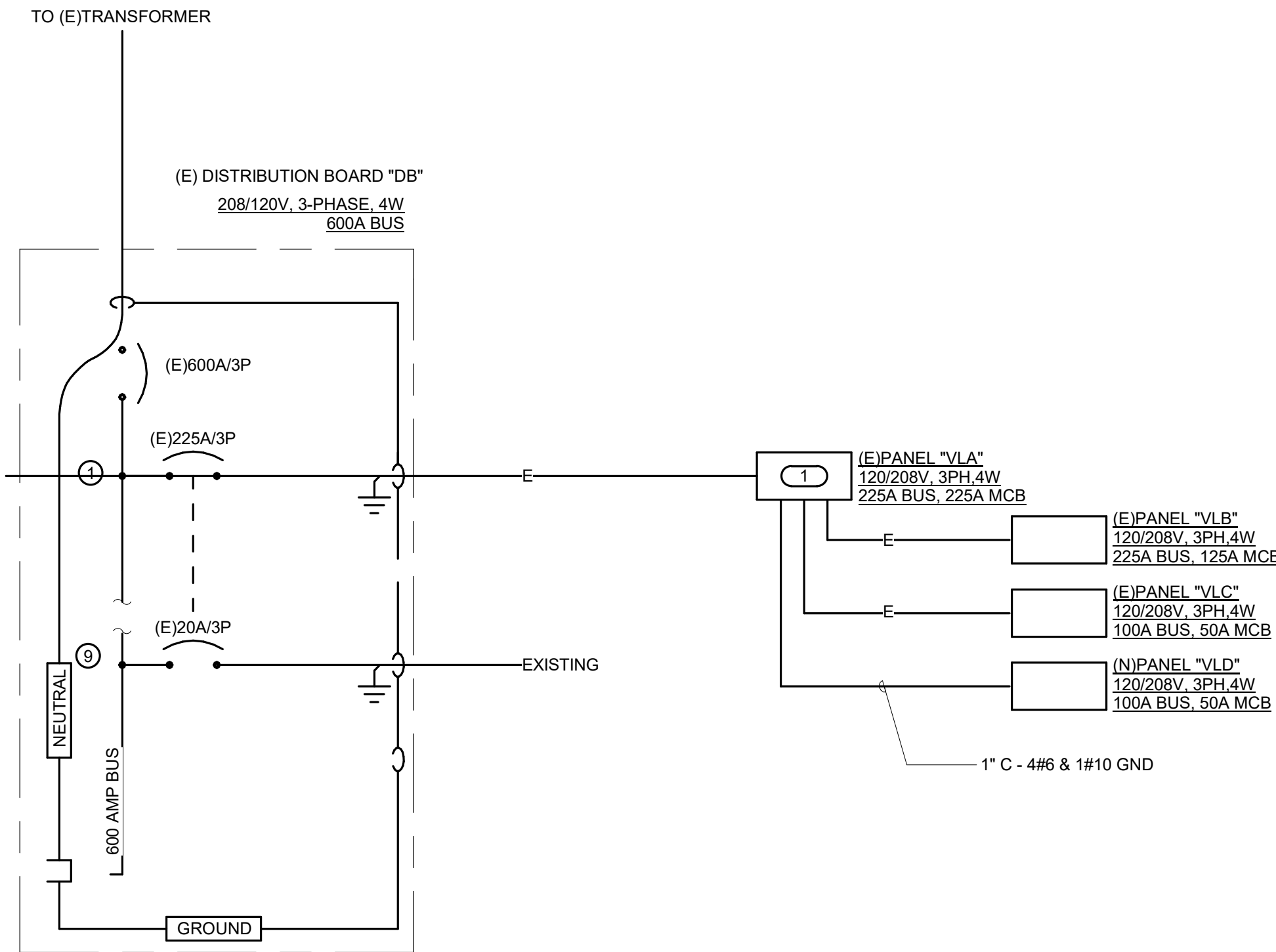
ENGINEER: NCI

SHEET DESCRIPTION:  
ELECTRICAL COVERSHEET

SHEET NO:

E001





NOTES:

1 PROVIDE NEW 50A 3P CB IN EXISTING BREAKER SPACE 37, 39, 41. AIC RATING TO MATCH EXISTING

## 1 SINGLE LINE DIAGRAM

NO SCALE

(E) PANEL "VLA" 120/208V, 3ø, 4W, 225A	
(E) DEMAND LOAD	= 56.7 KVA
X 1.25%	= 70.8 KVA
REMOVED LOAD	= 5.0 KVA
ADDED LOAD	= 3.4 KVA
TOTAL LOAD	= 69.2 KVA 192.2 A

(E)PANEL VLA

MOUNTING: SURFACE  
ENCLOSURE: NEMA PB 1  
FED FROM: --  
LOCATION: MAIN GARAGE  
SO WALL

SOLID NEUTRAL  
GROUND BUS

MAIN: 225 A MCB  
VOLTS: 120/208 Wye  
PHASE: 3  
WIRE: 4  
SCCR: 42 kA  
ISC: 26.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE G N H	OC PD P AMPS	LOAD DESCRIPTION	CKT NO.	K E Y		
1	1	(E)RECEPT EAST COL	20 A	1	-- --		0	0			-- --	1	20 A (E)RECEPT WEST COL	2	1		
1	3	(E)RECEPT EAST COL	20 A	1	-- --			0	0		-- --	1	20 A (E)RECEPT WEST COL	4	1		
1	5	(E)RECEPT EAST COL	20 A	1	-- --				0	0	-- --	1	20 A (E)RECEPT WEST COL	6	1		
1	7	(E)RECEPT EAST COL	20 A	1	-- --		0	0			-- --	1	20 A (E)RECEPT RM 16,17,19	8	1		
1	9	(E)UNIT HEATER NO. END	20 A	1	-- --				0	0	-- --	1	20 A (E)RECEPT RM 16,17,19	10	1		
1	11	(E)UNIT HEATER NO. END	20 A	1	-- --				0	0	-- --	1	20 A (E)RECEPT RM 16,18	12	1		
1	13	(E)UNIT HEATER SO. END	20 A	1	-- --		0	0			-- --	1	20 A (E)WHEEL BENCH	14	1		
1	15	(E)REELLITES WEST	20 A	1	-- --			0	0		-- --	1	20 A (E)WALL HEATER MEZZ.	16	1		
1	17	(E)OUTSIDE LTS	20 A	1	-- --				0	0	-- --	1	20 A (E)WALL HEATER MEZZ.	18	1		
2	19	SPARE	20 A	1	-- --		0	0			-- --	1	20 A (E)PT EXH FAN	20	1		
1	21	(E)FIRE ALARM	20 A	1	-- --				0	0	-- --	1	20 A (E)PT EXH FAN	22	1		
1	23	(E)FIRE ALARM	20 A	1	-- --				0	0	-- --	1	20 A (E)PT EXH FAN	24	1		
1	25	SPACE	--	1	-- --		--	0			-- --	3	20 A (E)PANEL VLC	26	1		
1	27	SPACE	--	1	-- --		--	--	0		-- --	--	--	28	1		
1	29	SPACE	--	1	-- --		--	--	--	0	-- --	--	--	30	1		
1	31	(E)BENCH OUTLET	20 A	1	-- --		0	--			-- --	1	-- SPACE	32	1		
1	33	(E)BENCH OUTLET	20 A	1	-- --				0	0	-- --	1	20 A (E)MEZZ A/C	34	1		
1	35	EXISTING	20 A	1	-- --				0	0	-- --	1	20 A (E)MEZZ A/C	36	1		
3	37	(N)PANEL VLD	50 A	3	-- --		0	0			-- --	1	20 A (E)CAR HOIST WEST	38	1		
3	39	--	--	--	-- --			0	0		-- --	1	20 A (E)CAR HOIST WEST	40	1		
3	41	--	--	--	-- --				0	0	-- --	1	20 A (E)CAR HOIST WEST	42	1		
Total Load:						0.00 kVA	0.00 kVA	0.00 kVA									
Total Amps:						0.00	0.00	0.00									
LOAD SUMMARY																	
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*								
									TOTAL CONNECTED LOAD:								
									TOTAL ESTIMATED DEMAND LOAD:								
									TOTAL CONNECTED AMPS:								
									TOTAL ESTIMATED DEMAND AMPS:								

\*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: 1. EXISTING CIRCUIT BREAKER TO REMAIN. 2. EXISTING CIRCUIT BREAKER WITH NEW LOAD. 3. NEW CIRCUIT BREAKER TO MATCH AIC RATING.

MOUNTING: SURFACE

ENCLOSURE: NEMA PB 1

FED FROM: --

LOCATION: MAIN GARAGE  
SO WALL

SOLID NEUTRAL  
GROUND BUS

MAIN: 50 A MCB

VOLTS: 120/208 Wye

PHASE: 3

WIRE: 4

SCCR: 36 kA

ISC: 18.00 kA

NOTES:

K E Y	CKT NO.	LOAD DESCRIPTION	OC PD AMPS	P	H	WIRE SIZE N G	VD %	A	B	C	VD %	WIRE SIZE G N H	OC PD P	LOAD DESCRIPTION	CKT NO.	K E Y	
--	1	AUTO LIFT	20 A	2	--	--	--	1.7	0.5			--	--	1 20 A RELOCATED LOAD	2	--	
--	3	--	--	--	--	--	--		1.7	0.5		--	--	1 20 A DRINKING FOUNTAIN, RR	4	--	
--	5	SPARE	20 A	1	--	--	--			0	0	--	--	1 20 A SPARE	6	--	
--	7	SPARE	20 A	1	--	--	--	0	0			--	--	1 20 A SPARE	8	--	
--	9	SPARE	20 A	1	--	--	--		0	0		--	--	1 20 A SPARE	10	--	
--	11	SPARE	20 A	1	--	--	--			0	0	--	--	1 20 A SPARE	12	--	
--	13	--	20 A	1	--	--	--					--	--	1 20 A SPARE	14	--	
--	15	--	--	--	--	--	--					--	--	--	16	--	
--	17	--	--	--	--	--	--					--	--	--	18	--	
--	19	--	--	--	--	--	--					--	--	--	20	--	
--	21	--	--	--	--	--	--					--	--	--	22	--	
--	23	--	--	--	--	--	--					--	--	--	24	--	
--	25	--	--	--	--	--	--					--	--	--	26	--	
--	27	--	--	--	--	--	--					--	--	--	28	--	
--	29	--	--	--	--	--	--					--	--	--	30	--	
--	31	--	--	--	--	--	--					--	--	--	32	--	
--	33	--	--	--	--	--	--					--	--	--	34	--	
--	35	--	--	--	--	--	--					--	--	--	36	--	
--	37	--	--	--	--	--	--					--	--	--	38	--	
--	39	--	--	--	--	--	--					--	--	--	40	--	
--	41	--	--	--	--	--	--					--	--	--	42	--	
Total Load:								2.20 kVA	2.20 kVA	0.00 kVA							
Total Amps:								21.15	21.15	0.00							
LOAD SUMMARY																	
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		TOTALS*									
Spare		4.4 kVA		80.00%		3.52 kVA		TOTAL CONNECTED LOAD:									
								TOTAL ESTIMATED DEMAND LOAD:									
								TOTAL CONNECTED AMPS:									
								TOTAL ESTIMATED DEMAND AMPS:									
								9.8 A									
*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.																	
CIRCUIT KEY NOTES:																	

STATE:

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT  
APP: 03-123200 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/25/2023

ARCHITECT:

**westberg white**  
architecture  
7700 IRVINE CENTER DRIVE, SUITE 100  
IRVINE, CA 92618  
(714) 508-1780 508-1790 FAX

CONSULTANT:

**IMEG**  
The Future Is Smarter  
901 VIA PIEMONTE  
SUITE 400  
ONTARIO, CA 91764  
P: 909-477-8915 F: 909-477-8916  
PROJECT #22008917.00

REGISTERED PROFESSIONAL ENGINEER  
NISTOR C. IGUCHI, JR.  
Lic. E16834  
Exp. 6-30-2025  
ELECTRICAL  
Signature

PROJECT NAME:

**OXNARD COLLEGE AUTO TECH**  
**VEHICLE LIFT ADDITION**  
4000 S ROSE AVE.  
OXNARD, CA 93033

CLIENT:

VENTURA COMMUNITY  
COLLEGE DISTRICT  
761 E DAILY DR.,  
CAMARILLO, CA 93010

Rev. Date Description

JOB NO: 22052.01

DATE: April 17, 2023

DRAWN: VOM

CHECK: NCI

ARCHITECT: PDW

ENGINEER: NCI

SHEET DESCRIPTION:  
SINGLE LINE DIAGRAM AND  
PANEL SCHEDULES

SHEET NO:

E002



26 05 00 BASIC ELECTRICAL REQUIREMENTS

SCOPE OF WORK

THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NEW MATERIALS AS INDICATED ON THE DRAWINGS, AND/OR IN THESE SPECIFICATIONS, AND ALL ITEMS REQUIRED TO MAKE ASSOCIATED PORTION OF THE ELECTRICAL WORK A FINISHED AND WORKING SYSTEM.

ALL WORK THAT WILL PRODUCE EXCESSIVE NOISE OR INTERFERENCE WITH NORMAL BUILDING OPERATIONS, AS DETERMINED BY THE OWNER, SHALL BE SCHEDULED WITH THE OWNER. IT MAY BE NECESSARY TO SCHEDULE SUCH WORK DURING UNOCCUPIED HOURS.

CODES AND STANDARDS

CONFORM TO ALL REQUIREMENTS OF THE CITY OF OXNARD CODES, LAWS, ORDINANCES, AND OTHER REGULATIONS HAVING JURISDICTION OVER THIS INSTALLATION.

CONFORM TO ALL PUBLISHED STANDARDS OF :

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC)  
PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)

2022 CALIFORNIA BUILDING CODE (CBC)  
PART 2, TITLE 24, CCR  
BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)

2022 CALIFORNIA ELECTRICAL CODE (CEC)  
PART 3, TITLE 24, CCR  
BASED ON THE 2017 NATIONAL ELECTRICAL CODE (NEC)

2022 CALIFORNIA MECHANICAL CODE (CMC)  
PART 4, TITLE 24, CCR  
BASED ON THE 2018 UNIFORM MECHANICAL CODE (UMC)

2022 CALIFORNIA PLUMBING CODE (CPC)  
PART 5, TITLE 24, CCR  
BASED ON THE 2018 UNIFORM PLUMBING CODE (UPC)

2022 CALIFORNIA ENERGY CODE (CEC)  
PART6, TITLE 24, CCR

2022 CALIFORNIA HISTORICAL BUILDING CODE (CHBC)  
PART 8, TITLE 24, CCR

2022 CALIFORNIA FIRE CODE (CFC)  
PART 9, TITLE 24, CCR  
BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)

2022 CALIFORNIA EXISTING BUILDING CODE (CEBC)  
PART 10, TITLE 24, CCR  
BASED ON THE 2018 INTERNATIONAL BUILDING CODE

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)  
PART 11, TITLE 24, CCR

2022 CALIFORNIA REFERENCED STANDARDS CODE (CRSC)  
PART 12, TITLE 24, CCR

IF THE CONTRACTOR NOTES, AT THE TIME OF BIDDING, THAT ANY PARTS OF THE DRAWINGS OR SPECIFICATIONS DO NOT COMPLY WITH THE CODES OR REGULATIONS, CONTRACTOR SHALL INFORM THE ARCHITECT/ENGINEER IN WRITING, REQUESTING A CLARIFICATION.

PERMITS AND FEES

PROCURE ALL APPLICABLE PERMITS AND LICENSES. ABIDE BY LOCAL AND STATE LAWS, REGULATIONS, AND ORDINANCES. PAY ALL CHARGES FOR PERMITS OR LICENSES. PAY ALL FEES AND TAXES IMPOSED BY STATE, MUNICIPAL, AND OTHER REGULATORY BODIES. PAY ALL CHARGES ARISING OUT OF REQUIRED INSPECTIONS BY AN AUTHORIZED BODY. PAY ALL CHARGES ARISING OUT OF REQUIRED CONTRACT DOCUMENT REVIEWS ASSOCIATED WITH THE PROJECT AND AS INITIATED BY THE OWNER OR AUTHORIZED AGENCY/CONSULTANT.

WHERE APPLICABLE, ALL FIXTURES, EQUIPMENT AND MATERIALS SHALL BE LISTED BY UNDERWRITER'S LABORATORIES, INC. OR A NATIONALLY RECOGNIZED TESTING ORGANIZATION.

DRAWINGS

THE DRAWINGS FOR THE ELECTRICAL WORK ARE DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF THE WORK AND TO INDICATE THE GENERAL ARRANGEMENTS AND LOCATIONS OF EQUIPMENT, OUTLETS, ETC., AND THE APPROXIMATE SIZES OF EQUIPMENT.

CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF EQUIPMENT AND ROUGH-INS, AND THE EXACT ROUTING OF RACEWAYS SO AS TO BEST FIT THE LAYOUT OF THE JOB. CONDUIT ENTRY POINTS FOR ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, PANELBOARDS, SWITCHBOARDS, SWITCHGEAR AND UNIT SUBSTATIONS, SHALL BE DETERMINED BY THE CONTRACTOR UNLESS NOTED IN THE CONTRACT DOCUMENTS.

CONSTRUCTION DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED UTILIZING REVIT. CONTRACTORS AND SUBCONTRACTORS MAY REQUEST ELECTRONIC MEDIA FILES OF THE CONTRACT DRAWINGS. THE ELECTRONIC CONTRACT DOCUMENTS CAN BE USED FOR PREPARATION OF SHOP DRAWINGS AND AS-BUILT DRAWINGS ONLY. THE INFORMATION MAY NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT.

VERIFY ALL PERTINENT DIMENSIONS AT THE JOB SITE BEFORE ORDERING ANY CONDUIT, CONDUCTORS, WIREWAYS, BUS DUCT, FITTINGS, ETC.

SUBMITTALS

SUBMITTALS SHALL BE REQUIRED WHERE REQUIRED IN THE SPECIFICATIONS OR ON THE DRAWINGS. THE CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES OF EACH SHOP DRAWING FOR REVIEW BY THE ARCHITECT/ENGINEER BEFORE RELEASING ANY EQUIPMENT FOR MANUFACTURE OR SHIPMENT.

THE CONTRACTOR SHALL THOROUGHLY REVIEW AND APPROVE ALL SHOP DRAWINGS BEFORE SUBMITTING THEM TO THE ARCHITECT/ENGINEER. CONTRACTOR SHALL CLEARLY MARK ALL DEVIATIONS FROM THE CONTRACT DOCUMENTS ON ALL SUBMITTALS. ASSEMBLE ALL SUBMITTALS IN SETS, SUCH AS PANELBOARDS. ALL SETS SHALL BE IDENTICAL AND CONTAIN AN INDEX OF THE ITEMS ENCLOSED WITH A GENERAL TOPIC DESCRIPTION ON THE COVER. WHERE MORE THAN ONE MODEL IS SHOWN ON A MANUFACTURER'S SHEET, CLEARLY INDICATE EXACTLY WHICH ITEM AND WHICH DATA IS RELEVANT TO THE WORK. REFER TO SUBSECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

WARRANTY

PROVIDE MINIMUM ONE-YEAR WARRANTY FOR ALL FIXTURES, EQUIPMENT, MATERIALS, AND WORKMANSHIP. REFER TO SUBSECTIONS FOR ADDITIONAL WARRANTY REQUIREMENTS.

CONTINGENCY

INCLUDE IN THE BASE BID A CONTINGENCY OF 10 % TO BE USED ONLY BY CHANGE ORDERS ISSUED BY THE ARCHITECT/ENGINEER. THE UNUSED PORTION OF THE CONTINGENCY SHALL BE DEDUCTED FROM THE CONTRACT PRICE BEFORE FINAL PAYMENT IS MADE.

MATERIAL SUBSTITUTION

WHERE SEVERAL MANUFACTURERS' NAMES ARE GIVEN, THE MANUFACTURER FOR WHICH A CATALOG NUMBER IS GIVEN IS THE BASIS OF DESIGN AND ESTABLISHES THE QUALITY REQUIRED. EQUIVALENT EQUIPMENT MANUFACTURED BY THE OTHER NAMED MANUFACTURERS MAY BE USED. CONTRACTOR SHALL ENSURE THAT ALL ITEMS SUBMITTED BY THESE OTHER MANUFACTURERS MEET ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS, AND FIT IN THE ALLOCATED SPACE. THE ARCHITECT/ENGINEER SHALL MAKE THE FINAL DETERMINATION OF WHETHER A PRODUCT IS EQUIVALENT.

ANY MATERIAL, ARTICLE, OR EQUIPMENT OF OTHER UNNAMED MANUFACTURERS WHICH WILL ADEQUATELY PERFORM THE SERVICES AND DUTIES IMPOSED BY THE DESIGN AND IS OF A QUALITY EQUAL TO OR BETTER THAN THE EQUIPMENT IDENTIFIED BY THE DRAWINGS MAY BE USED IF APPROVAL IS SECURED IN WRITING FROM THE ARCHITECT/ENGINEER VIA ADDENDUM.

OBSERVATION OF WORK

THE CONTRACTOR SHALL PROVIDE SEVEN (7) CALENDAR DAYS' NOTICE TO THE ARCHITECT/ENGINEER PRIOR TO COVERING INTERIOR PARTITIONS AND CHASES AND INSTALLING HARD OR SUSPENDED CEILINGS AND SOFFITS.

ALL WORK ABOVE THE CEILINGS MUST BE COMPLETE PRIOR TO THE ARCHITECT/ENGINEER'S REVIEW. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL JUNCTION BOXES ARE CLOSED AND IDENTIFIED (CONDUIT INCLUDED) IN ACCORDANCE WITH ELECTRICAL IDENTIFICATION. FLEXIBLE CONDUIT IS SUPPORTED ABOVE AND INDEPENDENTLY OF THE CEILING, AND ALL WALL PENETRATIONS ARE SEALED.

IN ORDER TO PREVENT THE FINAL JOBSITE OBSERVATION FROM OCCURRING TOO EARLY, THE CONTRACTOR SHALL REVIEW THE COMPLETION STATUS OF THE PROJECT AND CERTIFY IN WRITING THAT THE JOB IS READY FOR THE FINAL JOBSITE OBSERVATION.

PROJECT CLOSEOUT

SUBMIT THE FOLLOWING: OPERATION AND MAINTENANCE MANUALS INCLUDING BOUND COPIES OF APPROVED SHOP DRAWINGS, RECORD DOCUMENTS, SPARE PARTS AND EXTRA MATERIALS IN QUANTITIES SPECIFIED IN THESE SPECIFICATIONS, INSPECTION AND TESTING REPORT BY THE FIRE ALARM SYSTEM MANUFACTURER.

PROVIDE CUSTOM UPDATED/NEW TYPED CIRCUIT DIRECTORY FOR EACH EXISTING/NEW BRANCH CIRCUIT PANELBOARD INCLUDED IN THE SCOPE OF WORK. LABEL SHALL INCLUDED EQUIPMENT NAME OR FINAL APPROVED ROOM NAME, ROOM NUMBER, AND LOAD TYPE FOR EACH CIRCUIT (EXAMPLES: SUMP PUMP SP-1 OR ROOM 101 RECEPT). PRINTED COPIES OF THE BID DOCUMENT PANEL SCHEDULES ARE NOT ACCEPTABLE AS CIRCUIT DIRECTORIES.

OPERATION AND MAINTENANCE INSTRUCTIONS

OPERATION AND MAINTENANCE DATA SHALL CONSIST OF WRITTEN INSTRUCTIONS FOR THE CARE, MAINTENANCE, AND OPERATION OF THE EQUIPMENT AND SYSTEMS. INSTRUCTION BOOKS, CARDS, AND MANUALS FURNISHED WITH THE EQUIPMENT SHALL BE INCLUDED.

PROVIDE BOUND MANUALS WITH COPIES OF APPROVED SHOP DRAWINGS WITH TITLE PAGE AND INDEX SYSTEM SIMILAR TO OPERATION AND MAINTENANCE MANUAL.

RECORD DOCUMENTS

MAINTAIN AT THE JOB SITE A SEPARATE AND COMPLETE SET OF ELECTRICAL DRAWINGS AND SPECIFICATIONS WITH ALL CHANGES MADE TO THE SYSTEMS CLEARLY AND PERMANENTLY MARKED IN COMPLETE DETAIL. MARK DRAWINGS TO INDICATE APPROVED SUBSTITUTIONS, CHANGE ORDERS, AND ACTUAL EQUIPMENT AND MATERIALS USED. ALL CHANGE ORDERS, RFI RESPONSES, CLARIFICATIONS, AND OTHER SUPPLEMENTAL INSTRUCTIONS SHALL BE MARKED ON THE DOCUMENTS. RECORD DOCUMENTS THAT MERELY REFERENCE THE EXISTENCE OF THE ABOVE ITEMS ARE NOT ACCEPTABLE. RECORD CHANGES DAILY AND KEEP THE MARKED DRAWINGS AVAILABLE FOR THE ARCHITECT/ENGINEER'S EXAMINATION AT ANY NORMAL WORK TIME.

UPON COMPLETING THE JOB AND BEFORE FINAL PAYMENT IS MADE, PROVIDE REPRODUCIBLE DRAWINGS COMPLETED IN AUTOCAD TO THE ARCHITECT/ENGINEER.

CLEANING

THOROUGHLY CLEAN ALL EQUIPMENT AND SYSTEMS PRIOR TO THE OWNER'S FINAL ACCEPTANCE OF THE PROJECT. CLEAN ALL FOREIGN PAINT, GREASE, OIL, DIRT, LABELS, STICKERS, ETC. FROM ALL EQUIPMENT. REMOVE ALL RUBBISH, DEBRIS, ETC., ACCUMULATED DURING CONSTRUCTION FROM THE PREMISES.

26 05 13 WIRE AND CABLE

FEEDERS AND BRANCH CIRCUITS 8 AWG AND LARGER SHALL BE COPPER, STRANDED, 600 VOLT INSULATION, THIN.

FEEDERS AND BRANCH CIRCUITS 10 AWG AND SMALLER: COPPER, SOLID OR STRANDED, 600 VOLT INSULATION, THIN/THWN. NOTED ON THE DRAWINGS. MINIMUM SIZE #12 AWG. ALUMINUM, COMPACT STRANDED CONDUCTOR IS NOT ACCEPTABLE FOR FEEDER AND BRANCH CIRCUITS 6 AWG AND SMALLER.

ALUMINUM CONDUCTORS ARE NOT TO BE USED FOR FEEDS TO MOTOR LOADS.

CONTROL CABLE FOR CLASS 1, CLASS 2, AND CLASS 3 CIRCUITS SHALL BE COPPER, 800 VOLT INSULATION, RATED 60°C, INDIVIDUAL CONDUCTORS TWISTED TOGETHER, SHIELDED, AND COVERED WITH PVC. MINIMUM SIZE #14 AWG.

FIRE RATED MINERAL INSULATED CABLES SHALL BE COPPER, 600 VOLT INSULATION, RATED 90°C, TYPE MI RATED FOR TWO-HOUR.

ARMORED CABLE (AC) SHALL BE CONSTRUCTED IN ACCORDANCE WITH UL STANDARD FOR TYPE AC CABLES, UL 4, AND INCLUDE FLEXIBLE METALLIC INTERLOCKED ARMOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DERATING AND SIZING CONDUCTORS AND CONDUITS TO EQUAL OR EXCEED THE AMPACITY OF NEC TABLE B.310.15(B)(2)(7) CBC TABLE 18-27-310.77, IF METHODS OR MATERIALS OTHER THAN THE BASIS OF DESIGN ARE USED.

USE # 10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 75 FEET, AND FOR 20 AMPERE, 277 VOLT BRANCH CIRCUIT HOME RUNS LONGER THAN 200 FEET.

ALL WIRES IN OUTLET BOXES NOT CONNECTED TO FIXTURES OR OTHER DEVICES SHALL BE ROLLED UP, SPLICED IF CONTINUITY OF CIRCUIT IS REQUIRED, AND INSULATED.

USE SOLDERLESS, TIN-PLATED COPPER LUGS APPLIED WITH CIRCUMFERENTIAL CRIMP FOR COPPER TERMINATIONS #8 AWG AND LARGER. USE INDENTER CRIMP #10 AWG AND SMALLER.

AC CABLE SHALL BE SUPPORTED BY AN APPROVED MEANS EVERY 4.5' AND WITHIN 12" OF OUTLET BOXES, JUNCTION BOXES, CABINETS, OR FITTINGS.

TEST WIRE AND CABLE INSULATION WITH DEVICE SUCH AS A "MEGGER", USING NOT LESS THAN 500 VOLTS D.C. TEST POTENTIAL.

USE ANTIOXIDANT JOINT COMPOUND ON ALL ALUMINUM CONDUCTOR TERMINATIONS. APPLY ANTIOXIDANT JOINT COMPOUND PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE DOCUMENTATION OF THE MANUFACTURER'S RECOMMENDED LUG TORQUE VALUE FOR ALUMINUM CONDUCTORS, THE DATE THE LUGS WERE TORQUED, AND INSTALLED TORQUE READINGS.

26 05 33 CONDUIT AND BOXES

CONDUIT

ACCEPTABLE CONDUIT MANUFACTURERS: ALLIED, LTV, STEELDUCT, WHEATLAND TUBE CO, O-Z GEDNEY.

ACCEPTABLE FITTINGS MANUFACTURERS: APPLETON ELECTRIC, O-Z GEDNEY, ELECTROLINE, RACO, BRIDGEPORT, MIDWEST, REGAL, THOMAS & BETTS, CROUSE-HINDS, KILLARK

ELECTRICAL METALLIC TUBING (EMT), MINIMUM 3/4" AND 1" FOR LOW VOLTAGE RACEWAYS, SHALL BE USED IN FINISHED SPACES FOR ALL BRANCH CIRCUITS.

RIGID METALLIC CONDUIT (RMC) SHALL BE USED IN WET OR DAMP LOCATIONS, HAZARDOUS LOCATIONS SLAB ON-GRADE AND ABOVE-GRADE UNDERGROUND WHERE SUBJECT TO VEHICULAR TRAFFIC.

FLEXIBLE METALLIC CONDUIT (FMC) SHALL BE USED FOR CONNECTIONS TO MOTORS AND LIGHT FIXTURES. LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT (LFMC) WITH WATER-TIGHT FITTINGS SHALL BE USED IN EXTERIOR OR WET/DAMP LOCATIONS. LENGTH OF CONDUIT SHALL NOT EXCEED 6'.

EMT AND IMC CONDUIT FITTINGS SHALL BE COMPRESSION STEEL SET-SCREW TYPE.

CONDUIT AND CONDUCTOR SIZING SHALL BE COORDINATED TO LIMIT CONDUCTOR FILL TO LESS THAN 40%. MAINTAIN CONDUIT OR AMPERE CAPACITY AS REQUIRED BY THE NATIONAL ELECTRICAL CODE CHICAGO ELECTRICAL CODE. NUMBER OF CURRENT-CARRYING CONDUCTORS PER RACEWAY NOT TO EXCEED NINE (9).

CONDUIT SHALL NOT CONTAIN MORE FOUR (4) QUARTER BENDS (360°) BETWEEN PULL BOX POINTS. TELECOMMUNICATIONS CONDUITS SHALL HAVE NO MORE THAN TWO (2) 90° BENDS BETWEEN PULL BOX POINTS AND CONTAIN NO CONTINUOUS SECTIONS LONGER THAN 100 FEET.

ALL CONDUITS THROUGH WALLS SHALL BE GROUDED OR SEALED INTO OPENINGS, WHERE CONDUIT PENETRATES FIREWALLS AND FLOORS, SEAL WITH A UL LISTED SEALANT. SEAL INTERIOR OF CONDUIT AT EXTERIOR ENTRIES.

PROVIDE A POLYPROPYLENE PULL CORD WITH 2000 LBS. TENSILE STRENGTH IN EACH EMPTY CONDUIT.

EXPOSED CONDUIT ON EXTERIOR WALLS OR ABOVE ROOF WILL NOT BE ALLOWED.

BOXES

MULTIPLE GANG SWITCH OUTLETS SHALL CONSIST OF THE REQUIRED NUMBER OF GANG BOXES APPROPRIATE TO THE QUANTITY OF SWITCHES COMPRISING THE GANG, PROVIDE PLASTER RINGS AND COVERS AS NEEDED.

RECEPTACLE OUTLET BOXES SHALL BE 4 INCHES SQUARE WITH RAISED COVER TO FIT FLUSH WITH FINISHED WALL LINE.

PROVIDE FIRE-RATED MOLDABLE PADS AND SOUND BARRIER INSULATION PADS.

GALVANIZED STEEL BOXES MAY BE USED IN CONCEALED OR EXPOSED INTERIOR LOCATIONS, ABOVE CEILINGS, AND MIN RECESSED STUDDED PARTITIONS.

CAST BOXES SHALL BE USED IN EXTERIOR LOCATIONS, HAZARDOUS LOCATIONS, WET LOCATIONS, CONCRETE SLAB ON GRADE, KITCHENS AND LAUNDRIES WHEN EXPOSED ON WALL SURFACE.

ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZED PER NEC CBC.

PULL AND JUNCTION BOXES, GALVANIZED STEEL, SIZED PER NEC CBC

26 27 26 WIRING DEVICES

SUBMIT SHOP DRAWING PRODUCT DATA INCLUDING ALL DEVICES AND ACCESSORIES.

ALL SWITCH, RECEPTACLE, OUTLET, AND COVERPLATE COLORS SHALL BE IVORY GRAY WHITE ALMOND OFFICE WHITE, VERIFIED WITH ARCHITECT, UNLESS INDICATED OTHERWISE.

ALL SWITCHES, RECEPTACLES, AND OUTLET FACEPLATES SHALL BE COMPLETE WITH UNBREAKABLE THERMOPLASTIC #302 STAINLESS STEEL BRASS COVERPLATES IN FINISHED SPACES WHERE WALLS ARE FINISHED. PROVIDE #302 STAINLESS STEEL COVERPLATES IN UNFINISHED SPACES. FINISH BOXES, AND GALVANIZED STEEL COVERPLATES IN UNFINISHED SPACES FOR SURFACE MOUNTED BOXES.

WHERE SEVERAL DEVICES ARE GANGED TOGETHER, THE COVERPLATE SHALL BE OF THE GANGED TYPE FOR THE NUMBER OF DEVICES USED.

MODULAR CONNECTORS: CONTRACTOR OPTION TO PROVIDE EQUIVALENT MODULAR CONNECTOR-TYPE DEVICES (HUBBELL SNAP CONNECT, PASS & SEYMOUR PLUG TAIL, LEVITON LEV-LOCK, COPPER ARROWLINK) WHERE APPLICABLE.

INSTALL RECEPTACLES VERTICALLY WITH GROUND SLOT UP. HORIZONTALLY WHERE INDICATED ON DRAWINGS WITH GROUND SLOT TO THE LEFT.

INSTALL DECORATIVE PLATES ON SWITCH, RECEPTACLE, AND BLANK OUTLETS IN FINISHED AREAS, USING JUMBO SIZE PLATES FOR OUTLETS INSTALLED IN MASONRY WALLS. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE MOUNTED OUTLETS.

INSTALL NAMEPLATE IDENTIFICATION TO RECEPTACLE COVER PLATES INDICATED. IDENTIFICATION SHALL IDENTIFY PANEL NAME AND CIRCUIT NUMBER.

TEST RECEPTACLES FOR PROPER POLARITY, GROUND CONTINUITY, AND COMPLIANCE WITH REQUIREMENTS.

26 24 16 PANELBOARDS

SUBMIT SHOP DRAWINGS INCLUDING OUTLINE AND SUPPORT POINT DIMENSIONS, VOLTAGE, MAIN BUS AMPACITY, INTEGRATED SHORT CIRCUIT AMPERE RATING, CIRCUIT BREAKER OR FUSIBLE SWITCH ARRANGEMENT AND SIZES.

FURNISH SPARE PARTS TO OWNER INCLUDING FOUR (4) KEYS AND THREE (3) BREAKERS AND FUSES OF EACH TYPE AND RATING.

PANELBOARDS FOR THIS PROJECT SHALL BE FULLY SERIES RATED.

BRANCH CIRCUIT PANELBOARDS

DOOR-IN-DOOR CONSTRUCTION, HINGED TRIM TO ALLOW ACCESS TO WIRING GUTTERS WITHOUT REMOVAL OF TRIM. COPPER ALUMINUM BUS: SQUARE D NQ / NF, GENERAL ELECTRIC AQ / AE, SIEMENS P1, CUTLER HAMMER PRL1, PRL2.

MOLDED CASE BOLT-ON TYPE CIRCUIT BREAKERS WITH THERMAL MAGNETIC TRIP, TYPE SWD FOR LIGHTING CIRCUITS. DO NOT USE TANDEM CIRCUIT BREAKERS.

INSTALLATION

ARRANGE CIRCUITS IN PANELBOARDS TO BALANCE THE PHASE LOADS WITHIN 20 PERCENT. MAINTAIN PROPER PHASING FOR MULTI-WIRE BRANCH CIRCUITS.

INSTALL PANELBOARDS PLUMB AS INDICATED ON THE DRAWINGS IN CONFORMANCE WITH NEMA PB 1.1. HEIGHT: 6 FEET TO HANDLE OF HIGHEST DEVICE.

PROVIDE FILLER PLATES FOR UNUSED SPACES IN PANELBOARDS.

PROVIDE CUSTOM UPDATED/NEW TYPED CIRCUIT DIRECTORY FOR EACH EXISTING/NEW BRANCH CIRCUIT PANELBOARD INCLUDED IN THE SCOPE OF WORK. LABEL SHALL INCLUDED EQUIPMENT NAME OR FINAL APPROVED ROOM NAME, ROOM NUMBER, AND LOAD TYPE FOR EACH CIRCUIT (EXAMPLES: SUMP PUMP SP-1 OR ROOM 101 RECEPT). PRINTED COPIES OF THE BID DOCUMENT PANEL SCHEDULES ARE NOT ACCEPTABLE AS CIRCUIT DIRECTORIES.

STUB FIVE (5) EMPTY ONE-INCH CONDUITS TO ACCESSIBLE LOCATION ABOVE CEILING OUT OF EACH RECESSED PANELBOARD.

VISUAL AND MECHANICAL INSPECTION: INSPECT FOR PHYSICAL DAMAGE, PROPER ALIGNMENT, ANCHORAGE, AND GROUNDING. CHECK PROPER INSTALLATION AND TIGHTNESS OF CONNECTIONS FOR CIRCUIT BREAKERS, FUSIBLE SWITCHES, AND FUSES.

26 05 27 SUPPORTING DEVICES

APPROVED MANUFACTURERS: ALLIED, COOPER B-LINE, ERICO, HILTI, POWER FASTENERS.

SUPPORT CHANNELS SHALL BE PAINTED STEEL. PROVIDE GALVANIZED STAINLESS STEEL FOR WET/DAMP LOCATIONS. ALL HARDWARE TO BE CORROSION RESISTANT.

ANCHORS AND STRUCTURAL COMPONENTS

SUPPORTS SHALL HAVE STRUCTURAL SAFETY FACTOR STRENGTH OF TWICE THE MAXIMUM SEISMIC FORCES TO WHICH THEY WILL BE SUBJECTED, THROUGH BOLTS SHALL COMPLY WITH ASTM A 325. WELDING LUGS SHALL COMPLY WITH MSS-SP-69, TYPE 57.

BEAM CLAMPS FOR STRUCTURAL STEEL SHALL BE DOUBLE SIDED.

FASTEN CONCRETE ANCHORS PER THE REQUIREMENTS OF APPENDIX D OF ACI 318-11 CBC.

FASTEN MASONRY ANCHORS WITH EXPANSION ANCHORS OR SELF-TAPPING MASONRY SCREWS.

DO NOT EXCEED 25 LBS. PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO METAL ROOF DECKING.

26 05 26 GROUNDING AND BONDING

COMPLY WITH UL 467 GROUNDING AND BONDING EQUIPMENT.

CONDUCTORS SHALL BE COPPER IN ACCORDANCE WITH 26 05 13.

CONNECTORS SHALL BE HYDRAULIC COMPRESSION TYPE OR EXOTHERMIC-WELDED TYPE.

EQUIPMENT GROUNDING

INSTALL EQUIPMENT GROUNDING CONDUCTORS IN ALL FEEDERS AND CIRCUITS.

EQUIPMENT GROUNDING CONDUCTORS: INSULATED WITH GREEN-COLORED INSULATION.

ISOLATED GROUND CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION WITH YELLOW STRIPE.

BONDING

BONDING CONDUCTORS SHALL BE NO. 6 AWG, STRANDED COPPER CONDUCTOR. BONDING JUMPER SHALL BE BARE COPPER TAPE, TERMINATED WITH COPPER FERRULES.

BOND TO COLUMNS OR BEAMS AT BUILDING EXPANSION JOINTS.

ISOLATE DESIGNATED EQUIPMENT ENCLOSURES VIA BONDING JUMPER.

BOND TO METALLIC WATER PIPE USING A SUITABLE GROUND CLAMP AT STREET SIDE OF FLANGE AND PROVIDE BONDING JUMPER AROUND WATER METER.

FIELD QUALITY CONTROL

MEASURE GROUND RESISTANCE FROM SYSTEM NEUTRAL CONNECTION AT SERVICE ENTRANCE TO CONVENIENT GROUND REFERENCE POINTS USING SUITABLE GROUND TESTING EQUIPMENT. RESISTANCE SHALL NOT EXCEED 5 OHMS. NOTIFY ARCHITECT/ENGINEER PROMPTLY AND INCLUDE RECOMMENDATIONS TO REDUCE GROUND RESISTANCE.

PROVIDE GROUND TESTING IN ACCORDANCE WITH IEEE STANDARDS.

26 05 53 ELECTRICAL IDENTIFICATION

COLORLED ADHESIVE MARKING TAPE FOR BANDING RACEWAYS, WIRES, AND CABLES: 3 MILS THICK BY 2" WIDTH.

PRETENSIONED FLEXIBLE WRAPAROUND COLORED PLASTIC SLEEVES FOR CABLE IDENTIFICATION.

WIRE/CABLE DESIGNATION TAPE MARKERS: VINYL OR VINYL-CLOTH, SELF-ADHESIVE, WRAPAROUND, WITH PREPRINTED NUMBERS AND LETTER.

CABLE TIES: NYLON, 0.18" WIDTH, 50-LB MINIMUM TENSILE STRENGTH.

ALUMINUM, WRAPAROUND MARKER BANDS: 1" WIDTH, 0.014 INCH THICK ALUMINUM BANDS WITH STAMPED OR EMBOSSED LEGEND, AND FITTED WITH SLOTS OR EARS FOR PERMANENTLY SECURING AROUND WIRE OR CABLE JACKET OR AROUND GROUP OF CONDUCTORS.

ENGRAVED, PLASTIC-LAMINATED LABELS, SIGNS AND INSTRUCTION PLATES: BLACK LETTERS ON WHITE FACE FOR NORMAL POWER WHITE LETTERS ON RED FACE FOR EMERGENCY POWER, WHITE LETTERS ON GREEN FACE FOR GROUNDING BLACK LETTER ON YELLOW FACE FOR CAUTION OR UPS.

JUNCTION, PULL AND CONNECTION BOXES: 3/8-INCH KROY TAPE OR BROTHER SELF-LAMINATING VINYL LABEL PERMANENT MARKER.

APPLY DESIGNATION LABELS OF ENGRAVED PLASTIC LAMINATE FOR PUSHBUTTONS, PILOT LIGHTS, ALARM/SIGNAL COMPONENTS, AND SIMILAR ITEMS, EXCEPT WHERE LABELING IS SPECIFIED ELSEWHERE.

INSTALL ARC FLASH WARNING SIGNS ON ALL SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, AND MOTOR CONTROL CENTERS.

COVER PLATES FOR RECEPTACLES AND SWITCHES: INDICATE SOURCE AND CIRCUIT NUMBER SERVING THE DEVICE: 3/8-INCH KROY TAPE OR BROTHER SELF-LAMINATING VINYL LABEL WITH BLACK LETTERS.

CONDUIT IDENTIFICATION: SELF-ADHESIVE VINYL LABELS PERMANENT MARKER AT 10 20 FOOT INTERVALS TO IDENTIFY ALL CONDUITS EXPOSED OR LOCATED ABOVE ACCESSIBLE CEILINGS.

WHERE CONDUIT LEAVES A SWITCHBOARD OR PANELBOARD, IDENTIFY EACH CONDUIT INDICATING LOAD SERVED.

CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

208Y/120 VOLT, 4 WIRE:

A PHASE - BLACK

B PHASE - RED

C PHASE - BLUE

NEUTRAL - WHITE

GROUND BOND - GREEN

480Y/277 VOLT, 4 WIRE:

A PHASE - BROWN

B PHASE - ORANGE

C PHASE - YELLOW

NEUTRAL - GRAY

GROUND BOND - GREEN

ROVIDE ENGRAVED IDENTIFICATION ON THE FRONT OF ALL POWER DISTRIBUTION AND CONTROL EQUIPMENT, SUCH AS PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, VFD'S, STARTERS, DISCONNECTS, ETC. LABELING SHALL INCLUDE: EQUIPMENT DESIGNATION, VOLTAGE, UPSTREAM SOURCE OF ORIGIN, RATING, AND TYPE OF THE OVERCURRENT PROTECTION DEVICE SERVING THE EQUIPMENT.

BRANCH PANELBOARDS SHALL BE PROVIDED WITH TYPED PANEL SCHEDULES UPON COMPLETION OF THE PROJECT. EXISTING PANELBOARDS SHALL HAVE THEIR EXISTING PANEL SCHEDULES TYPED, WITH ALL CIRCUIT CHANGES, ADDITIONS, OR DELETIONS ALSO TYPED ON THE PANEL SCHEDULES. HANDWRITTEN MARKINGS SHALL NOT BE ACCEPTABLE.

STATE:

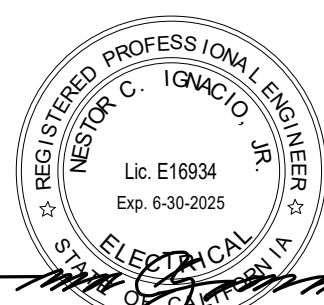
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DIV. OF THE STATE ARCHITECT  
APP: 03-123200 INC:  
REVIEWED FOR  
SS ☒ FLS ☒ ACS ☒  
DATE: 07/25/2023

ARCHITECT:

architecture  
westberg white  
7700 IRVINE CENTER DRIVE, SUITE 100  
IRVINE, CA 92618  
(714) 508-1780 508-1790 FAX

CONSULTANT:

IMEG  
THE FUTURE IS NOW  
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SUITE 400  
ONTARIO, CA 91764  
P: 909.477.8915 F: 909.477.8918  
PROJECT #22080917.00

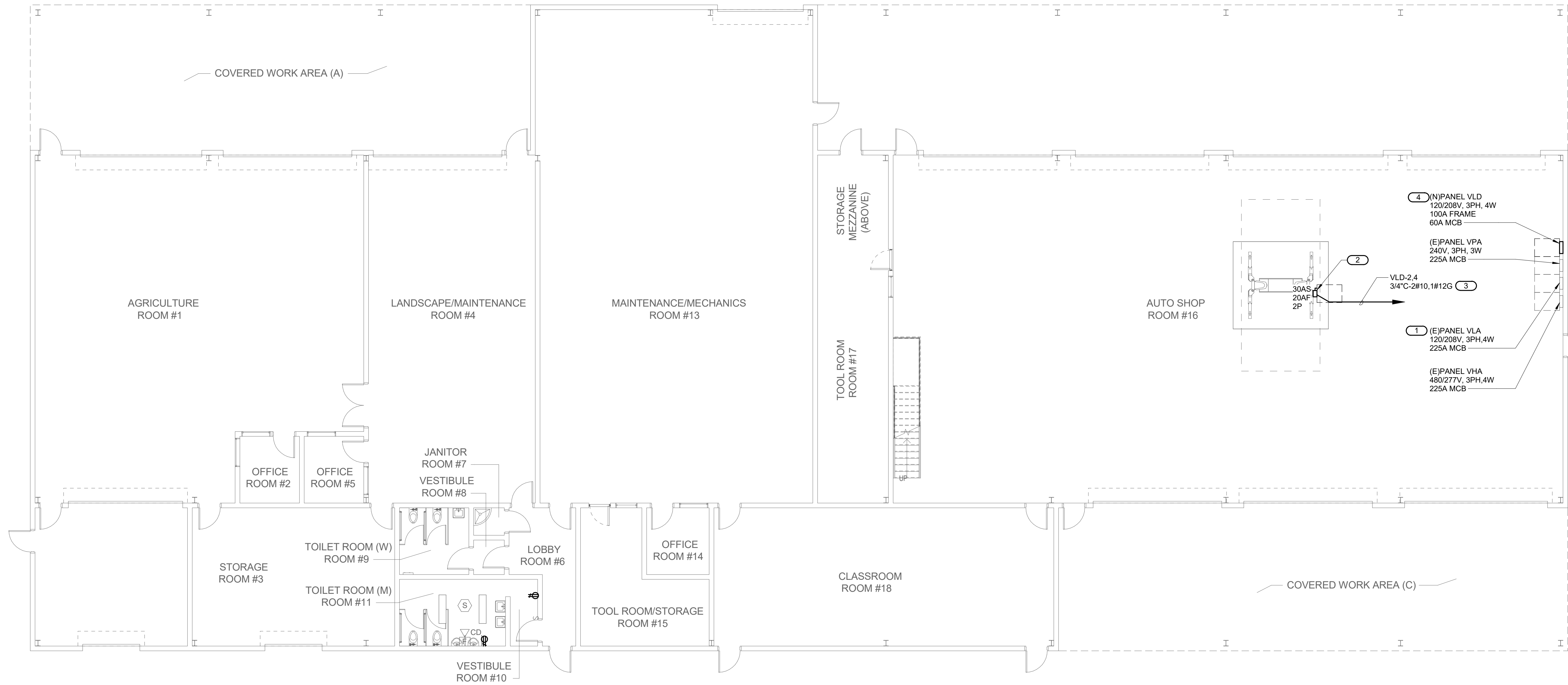


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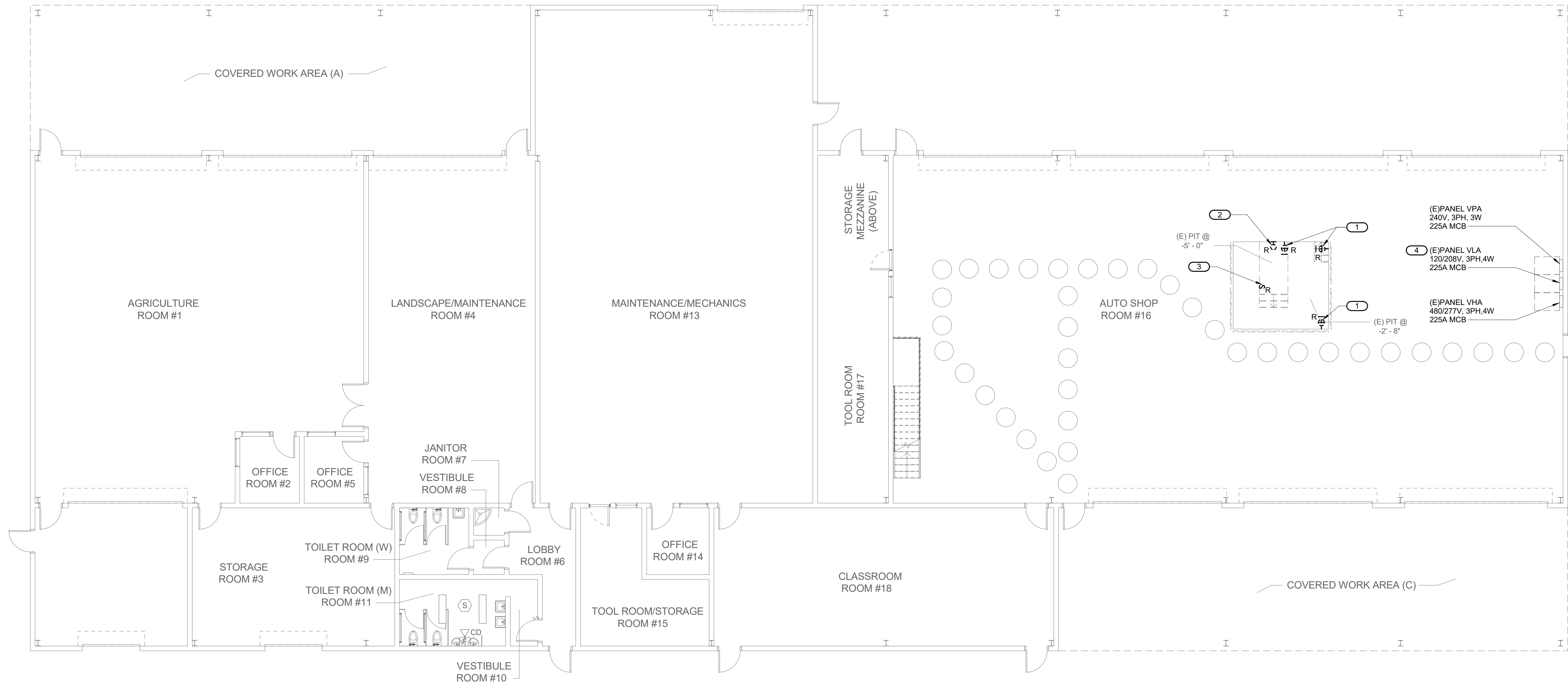
OXNARD COLLEGE AUTO TECH  
VEHICLE LIFT ADDITION  
4000 S ROSE AVE.  
OXNARD, CA 93033

CLIENT:





2 RENOVATION FLOOR PLAN  
1/8" = 1'-0"



1 DEMOLITION FLOOR PLAN  
1/8" = 1'-0"

REMODEL KEY NOTES: 2

- PROVIDE A NEW 50A, 3P CIRCUIT BREAKER ON PANEL CIRCUIT LOCATIONS 37, 38, 41 TO FEED NEW PANEL "VLD". NEW CIRCUIT BREAKER TO MATCH EXISTING PANEL BOARD AIC RATING. FIELD VERIFY EXACT LOCATION.
- MOUNT DISCONNECT SWITCH ON AUTO LIFT FRAME. MAKE CONNECTION TO AUTO LIFT CONTROLLER. COORDINATE WITH AUTOLIFT INSTRUCTION MANUAL FOR EQUIPMENT POWER CONNECTION. FIELD VERIFY EXACT LOCATION.
- ROUTE NEW CONDUIT AND WIRES OVERHEAD UTILIZING THE EXISTING CONDUIT SUPPORTS ON THE CEILING STRUCTURE. FIELD VERIFY EXACT LOCATION.
- NEW 120/208V, 3PH, 4W 100A PANEL WITH 50A MAIN CIRCUIT BREAKER. PROVIDE PANEL WITH 12 CKTS. RECONNECT EXISTING PANEL "VLA" REMOVED LOAD AND CONNECT TO NEW PANEL "VLD" 20A SPARE CIRCUIT BREAKER #2. MOUNT PANEL, SURFACE MOUNTED ON WALL WITH UNISTRUT SUPPORT. REFER TO DETAIL 1/E301.

DEMOLITION KEY NOTES: 2

- EXISTING SPECIALTY RECEPTACLE TO BE REMOVED. EXISTING CIRCUIT WIRES TO BE REMOVED BACK TO SOURCE PANEL BOARD. EXISTING CONDUIT TO REMAIN, CAPPED AND ABANDONED. EXISTING SOURCE PANEL CIRCUIT BREAKER TO REMAIN AND LABELED SPARE. FIELD VERIFY EXACT LOCATION.
- EXISTING PIT LIGHT FIXTURE TO BE REMOVED. EXISTING LIGHT CIRCUIT WIRES TO BE REMOVED BACK TO SOURCE PANEL BOARD. EXISTING CONDUIT TO REMAIN, CAPPED AND ABANDONED. EXISTING SOURCE PANEL CIRCUIT BREAKER TO REMAIN AND LABELED SPARE. FIELD VERIFY EXACT LOCATION.
- EXISTING PIT LIGHT FIXTURE SWITCH CONTROL TO BE REMOVED. EXISTING SWITCH WIRES TO BE REMOVED BACK TO EXISTING LIGHT. FIELD VERIFY EXACT LOCATION.
- EXISTING PANEL "VLA" CIRCUIT BREAKER 38 AND ITS CONNECTED LOAD IS TO BE REMOVED FROM THE PANEL AND THE EXISTING CONNECTED LOAD TO BE RECONNECTED TO THE NEW PANEL "VLD". FIELD VERIFY EXISTING CIRCUIT BREAKER CONNECTED LOAD PRIOR TO REMOVAL OF EXISTING CIRCUIT BREAKER.

FIRE ALARM NOTE:

- THE EXISTING FIRE ALARM SYSTEM IN THE AUTO SHOP AND THE RESTROOM IS COMPLIANT.

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ARCHITECT:

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architecture  
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PROJECT #22008917.00

REGISTERED PROFESSIONAL ENGINEER  
NORTH CAROLINA  
LIC. E16834  
Exp. 6-30-2025  
ALEXANDER C. GUNDEL  
PROJECT NAME:

**OXNARD COLLEGE AUTO TECH  
VEHICLE LIFT ADDITION**  
4000 S ROSE AVE.  
OXNARD, CA 93033

CLIENT:

VENTURA COMMUNITY  
COLLEGE DISTRICT  
761 E DAILY DR.,  
CAMARILLO, CA 93010

Rev. Date Description

JOB NO: 22052.01

DATE: April 17, 2023

DRAWN: VOM

CHECK: NCI

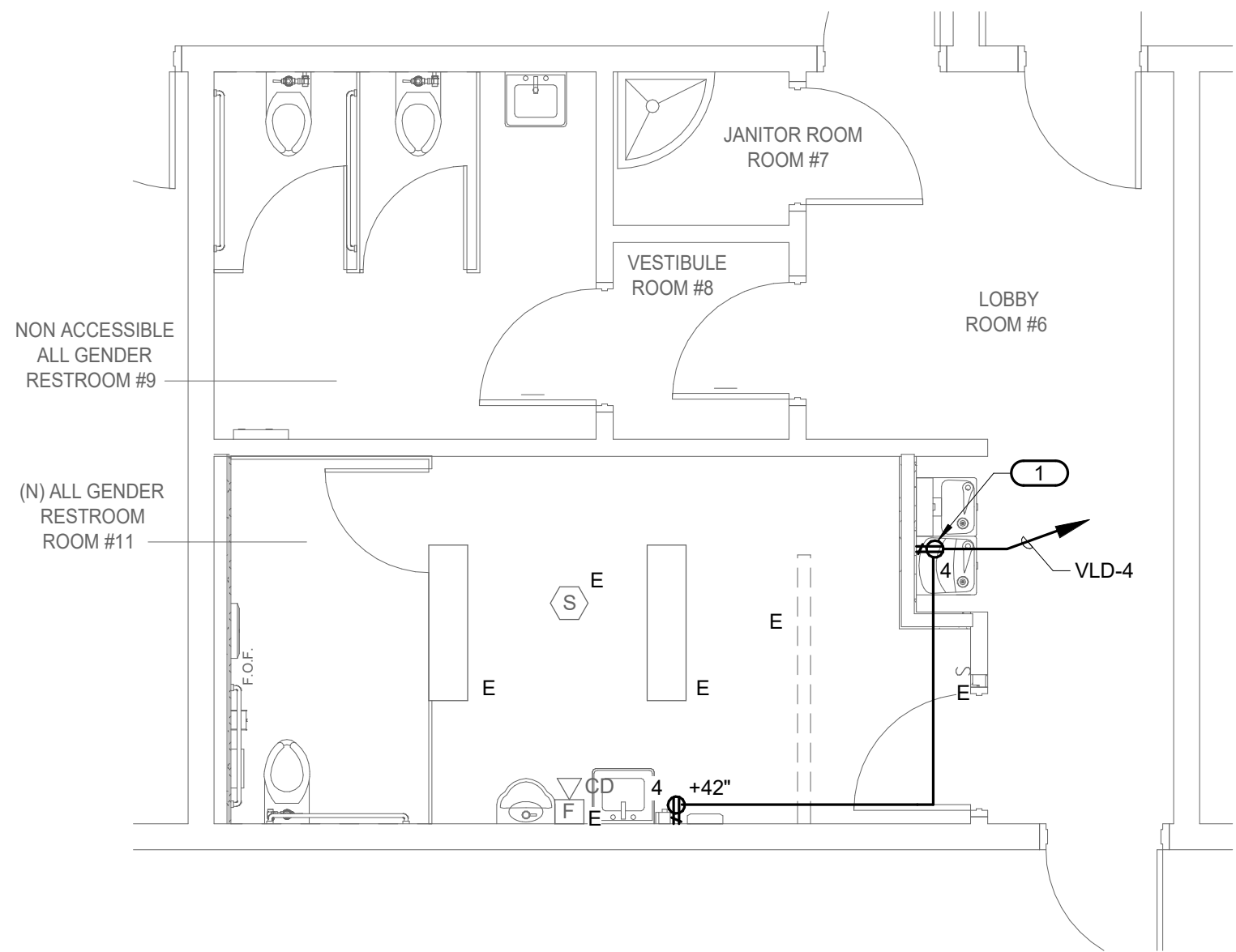
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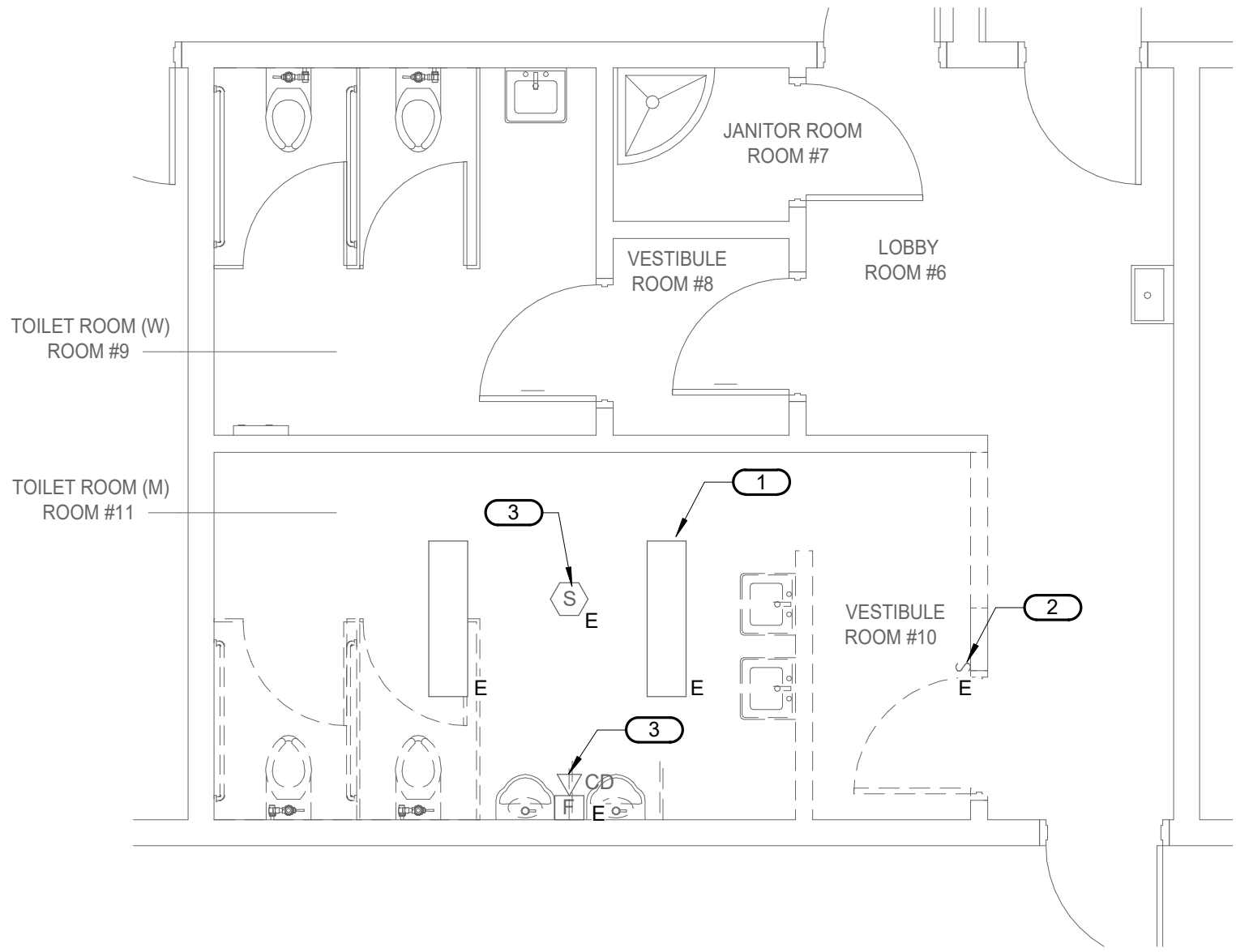
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DEMOLITION AND REMODEL  
PLANS

SHEET NO:





2 **ENLARGED RESTROOM RENOVATION PLAN**  
1/4" = 1'-0"



1 **ENLARGED RESTROOM DEMOLITION PLAN**  
1/4" = 1'-0"

REMODEL KEY NOTES: **CD**

1. FOR DRINKING FOUNTAIN, MOUNT AT +24" AFF. FIELD VERIFY EXACT LOCATION..

DEMOLITION KEY NOTES: **CD**

1. EXISTING LIGHT FIXTURE AND LIGHT CIRCUIT TO REMAIN. FIELD VERIFY EXACT LOCATION.  
2. EXISTING LIGHT TO REMAIN. FIELD VERIFY EXACT LOCATION.  
3. EXISTING FIRE ALARM DEVICE AND ASSOCIATED FIRE ALARM CIRCUIT TO REMAIN. FIELD VERIFY EXACT LOCATION.

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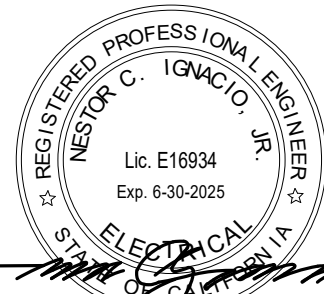
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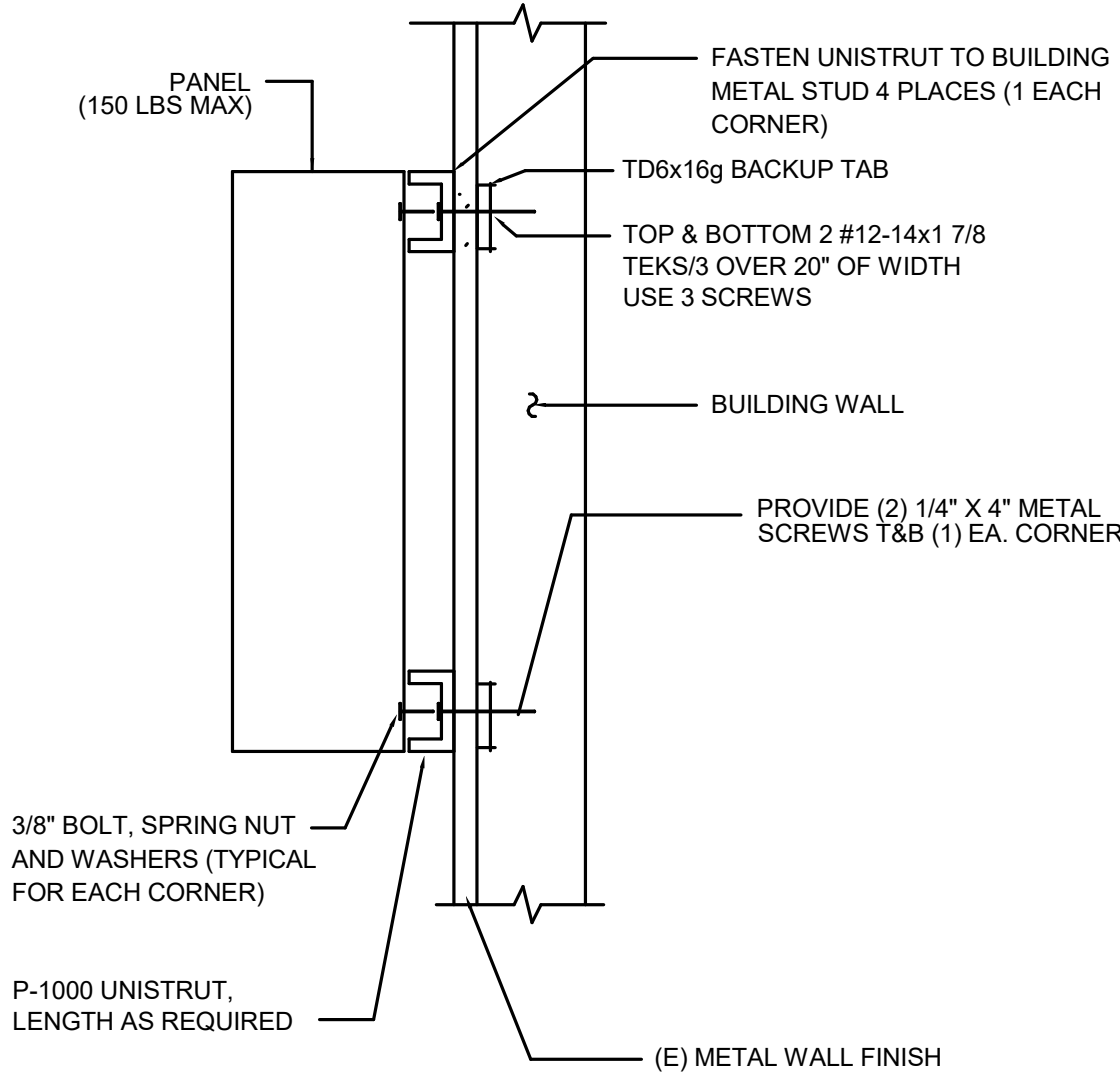
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CHECK: **NCI**  
ARCHITECT: **PDW**  
ENGINEER: **NCI**

SHEET DESCRIPTION:  
ENLARGED DEMOLITION AND  
REMODEL RESTROOM PLANS

SHEET NO:



23000338.00 7/14/2023 9:30:08 AM Oxnard College Auto Shop Lift



SURFACE MOUNTED PANEL INSTALLATION DETAIL	NTS	1	-	NTS	2	-	NTS	3	-	NTS	4
-	NTS	5	-	NTS	6	-	NTS	7	-	NTS	8
-	NTS	9	-	NTS	10	-	NTS	11	-	NTS	12

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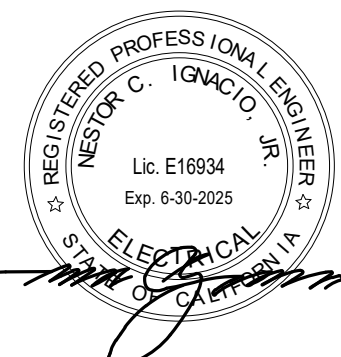
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ELECTRICAL DETAILS

SHEET NO: