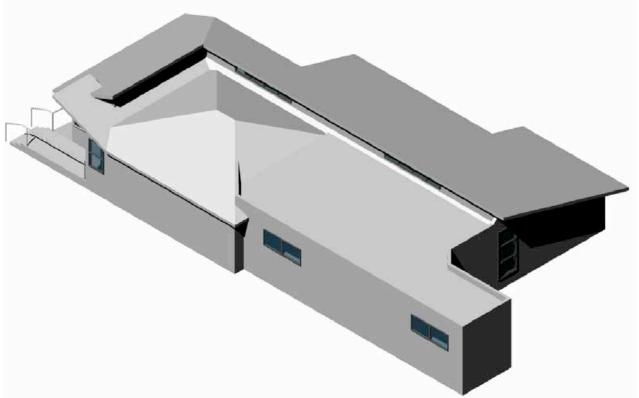


NORTH-EAST ISOMETRIC

SOUTH-WEST ISOMETRIC





NORTH-WEST ISOMETRIC

NORTH-EAST VIEW

BIDDERS PLANS AS OF 2/17/20

TO HELP EVERYONE CONSTRUCTION DOCUMENTS

LENNOX CLINIC, 10223 FIRMONA AVE., LENNOX, CA 90304

PROJECT DATA

PLANNING INFORMATION: PROJECT DESCRIPTION

2,007 SF ADDITION TO EXISTING OUTPATIENT MEDICAL CLINIC PROJECT SHALL CONFORM WITH OSHPD 3 - PRIMARY CARE CLINICS REQUIREMENTS (CBC 1226.6).

PARCEL ADDRESS 10233 FIRMONA AVE, LENNOX, CA 90304

PARCEL DESCRIPTION TR=288 S 51,2' OF E 150' OF LOT 104, APN 4036-007-902,

PARCEL SIZE (TOTAL) 8,430 SF ZONING R-2 PLANNING DISTRICT

SETBACKS SIDE: 5'-0" FRONT: 15'-0" REAR: **EXISTING**

HEIGHT LIMIT 45' (VERIFY) PROPOSED BUILDING HEIGHT 15'-11"

FIRE ZONE LOT COVERAGE

BUILDING INFORMATION:

APPLICABLE CODE 2016 CBC

2013 CA MECHANICAL CODE 2013 CA PLUMBING CODE 2013 CA ENERGY CODE 2013 CA GREEN BUILDING CODE 2012 NFPA 101 LA COUNTY MUNICIPAL CODE (VERIFY)

BUILDING TYPE TYPE V-B, NON-RATED

OCCUPANCY TYPES MAXIMUM ALLOWABLE AREA 9.000 S.F.

(PER TABLE 503)

MAXIMUM ALLOWABLE HEIGHT 2 STORIES (PER TABLE 503)

AREA CALCULATIONS AREA PER ZONING CODE

1438.8 S.F. EXISTING -739.8 S.F. DEMOLISH +2006.9 ADDITION 2205.9 S.F.

BUILDING CODE GSF 2,726 S.F. - 769 S.F. (BATH/HALLWAYS) BUILDING CODE NSF 1,957 S.F.

SPRINKLERS

NOT REQUIRED BY CBC, NOT PROVIDED

CBC CHAPTER 9 REQUIRES SPRINKLERS IF ANESTHESIA WILL BE USED ABOVE THE FIRST FLOOR

EXTERIOR WALL PROTECTION V-B BEARING: NONE NON BEARING: NONE

ALLOWABLE OPENINGS

PER EXCEPTION 2: "BUILDINGS WHOSE EXTERIOR BEARING WALLS.

OCCUPANT LOAD

258 S.F./15 = 17.2 OCCUPANTS 41.9 TOTAL OCCUPANTS

(PER 1015.1.1 AND TABLE 1021.1)

1 EACH FLOOR, NFPA 101 CHAPTER 20 REQUIRES 2 EXITS PER FLOOR.

EGRESS WIDTH (PER SECTION 1005):

25 X 0.3" = 7.5"

NON-SPRINKERED: 200' (PER TABLE 1016.2) SPRINKLERED: 300'

FIRE ALARM:

NOT REQUIRED PER 907.2.2.1 & NFPA101 - NOT PROVIDED

TO HELP EVERYONE 714 W. OLYMPIC BLVD. SUITE 1106 LOS ANGELES, CA 90015

<u>OWNER</u>

CONTACT: CHERYL TRINIDAD CHIEF DEVELOPMENT AND COMMUNICATIONS OFFICER

T: 323.730.1920 EXT: 3074 E: CTRINIDAD@TOHELPEVERYONE.ORG

DESIGN & CONSTRUCTION MANAGEMENT

CIVIL 15130 VENTURA BLVD., STE. 327

SHERMAN OAKS, CA 91403 C1.0 PRINCIPAL IN CHARGE OF DESIGN: GIULIO ZAVOLTA C1.1 T: 310.291.4074 C1.2

E: GIULIO@TOTUMCONSULTING.COM PRINCIPAL IN CHARGE OF CONSTRUCTION: DANNY KAYE T: 310.351.0138 E: DANNY@TOTUMCONSULTING.COM

PROJECT ARCHITECT: KEVIN SOUTHERLAND T: 310.614.2852 E: KEVIN@TOTUMCONSULTING.COM

STRUCTURAL ENGINEER

KPFF CONSULTING ENGINEERS 700 S. FLOWER ST. SUITE 2100 PROJECT ENGINEER: FRANCISCO NGUYEN T: 213.310.8519 E: FRANCISCO.NGUYEN@KPFF.COM

MECHANICAL / ELECTRICAL / PLUMBING

V & M ELECTRICAL ENGINEERING, INC VLADAMIR TSIDULKO, P.E. (ELECTRICAL) CHET BARSZCZ (MECHANICAL & PLUMBING) 3330 BARHAM BOULEVARD, SUITE 204 LOS ANGELES, CA 90068 T: 323.851.9964

CIVIL ENGINEER

KPFF CONSULTING ENGINEERS 700 S. FLOWER ST. SUITE 2100 PROJECT ENGINEER: DOUG CONLON T: 213.266.5282 E: DOUGLAS.CONLON@KPFF.COM

E: VME@VMELECTRICAL.COM

LANDSCAPE ARCHITECT

M+M LANDSCAPE ARCHITECTURE AND HORTICULTURE CONSULTING LANDSCAPE ARCHITECT: ANNA MENDIOLA, ASLA T: 562.706.6266 E: ANNAMENDIOLA1@GMAIL.COM

PROJECT DIRECTORY SHEET INDEX

TITLE SHEET

DEMOLITION PLAN

GRADING PLAN

UTILITY PLAN

PAVING PLAN

CIVIL DETAILS

ARCHITECTURAL (CONTINUED)

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FLOOR PLAN

ROOF PLAN

DEMOLITION PLAN

REFLECTED CEILING PLAN

FURNITURE & FINISH PLAN

BUILDING ELEVATIONS

BUILDING ELEVATIONS

BUILDING SECTIONS

BUILDING SECTIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

INTERIOR ELEVATIONS

DOOR & WINDOW DETAILS

SHEET INDEX, SYMBOLS, AND

FOUNDATION AND FIRST FLOOR

TYPICAL CONCRETE DETAILS

TYPICAL CONCRETE DETAILS

TYPICAL WOOD DETAILS

WOOD SECTIONS & DETAILS

TYPICAL WOOD DETAILS

MILLWORK DETAILS

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EXTERIOR DETAILS

ABBREVIATIONS

GENERAL NOTES

GENERAL NOTES

FRAMING PLAN

ROOF FRAMING PLAN

POWER & EQUIPMENT PLAN

EROSION CONTROL PLAN

A0.2b

A0.4a

A0.4c

C1.3

C1.4

C1.5

C5.0

A2.0 A2.1

A2.2

A2.3

A2.4

A2.5

A3.1

A3.2

A4.1

A8.1

A8.2

A8.3

A8.4

A8.5

A9.1

A9.2

A9.3

A10.1

S0.2

S2.0

S5.0

S5.1

STRUCTURAL

ARCHITECTURAL TITLE SHEET PROJECT INFORMATION GENERAL NOTES & ABBREVIATIONS GENERAL NOTES **EQUIPMENT CUT-SHEETS** GENERAL NOTES **DISABLED ACCESS NOTES** M-2.0 DISABLED ACCESS NOTES M-2.1 MECHANICAL PLAN ROOF DISABLED ACCESS NOTES **MECHANICAL SECTIONS** M-2.2 DISABLED ACCESS DIAGRAMS & DETAILS

DISABLED ACCESS DIAGRAMS & DETAILS

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PLUMBING

SCOPE OF WORK AND EQUIPMENT **SPECIFICATIONS** PLUMBING FIXTURES AND SPECIFICATIONS

SCHEMATIC SANITARY DRAIN / VENT ONE-LINE

DIAGRAM & SCHEMATIC

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PLUMBING FIXTURES CW/HW/DRAIN WATER HEATER SPECIFICATIONS AND

CW / HW ONE-LINE DIAGRAM &

LANDSCAPE

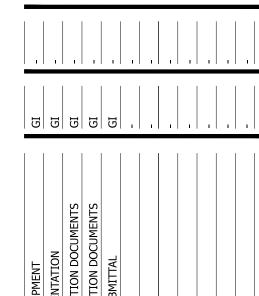
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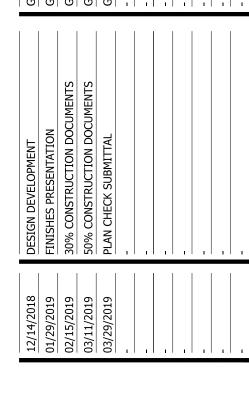
design

construction

management

sustainability





TITLE SHEET PROJECT INFORMATION

VICINITY MAP

W ARBOR VITAE ST

W CENTURY BLVD

- 36. UNSPECIFIED MATERIALS SHALL BE NEW, FIRST LINE MATERIALS BY A RECOGNIZED MANUFACTURER.
- 37. WHERE AVAILABLE, MANUFACTURER'S GUARANTEE AND OPERATING INSTRUCTIONS SHALL BE PROVIDED TO THE OWNER IN WRITING
- 38. ALL CONSTRUCTION AND INSTALLATIONS SHALL COMPLY WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS AND INSTRUCTIONS AS WELL AS APPLICABLE FEDERAL, STATE AND LOCAL ADOPTED ORDINANCES.
- 39. THE MEANS AND METHODS [INCLUDING SAFETY PRECAUTIONS] OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 40. THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL SUBCONTRACTORS, INCLUDING THOSE UNDER SEPARATE CONTRACT TO
- 41. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR THE WORK IN HIS TRADE REQUIRED BY OTHER TRADES I.E. OPENINGS, HOLES, BLOCKING ETC.
- 42. WHERE CONSTRUCTION MATERIALS ARE TEMPORARILY STORED ON ROOF OR FLOOR FRAMING, THEY SHALL BE DISTRIBUTED SO THAT THE LOAD DOES NOT EXCEED THE DESIGN LIVE LOAD OF THE STRUCTURE IN QUESTION. ADEQUATE SHORING AND/OR BRACING SHALL BE PROVIDED WHERE ITEMS HAVE NOT ATTAINED DESIGN STRENGTH.
- 43. LICENSES AND PERMITS NECESSARY TO THE PERFORMANCE, COMPLETION, AND APPROVAL OF THE WORKAND ALL INSPECTION AND OTHER APPLICABLE FEES [EXCLUDING BUILDING PERMIT FILING FEE] SHALL BE SECURED AND PAID FOR BY THE CONTRACTOR.
- 44. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED BY ONE TRADE FROM ANOTHER AND TO ENSURE THAT ALL COSTS ARE INCLUDED IN THE INCLUDED IN THE CONTRACT PRICE.
- 45. ALL CHANGE ORDERS ARE TO BE APPROVED BY THE ARCHITECT IN WRITING PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR WILL BE FULLY RESPONSIBLE FOR ALL ASSOCIATED COSTS IF CHANGE ORDER WORK IS COMMENCED WITHOUT PRIOR APPROVAL OF THE
- 46. BUILDING SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET FRONTING THE PROPERTY.
- 47. IF CONFLICTS EXISTS BETWEEN PLANS, NOTES, & SPECIFICATIONS, THE ARCHITECT SHALL BE NOTIFIED AND THAT THE MORE EXPENSIVE SHALL PREVAIL WITH RESPECT TO COSTS
- 48.ANY EXCESS MATERIALS NOT ATTACHED AND/OR INSTALLED IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

B. SITEWORK, DEMOLITION, FOUNDATIONS, ETC.

- 1. THERE SHALL BE NO TRENCHES OR EXCAVATIONS 5' OR MORE IN DEPTH INTO WHICH A PERSON IS REQUIRED TO DESCEND, OR OBTAIN NECESSARY PERMIT FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO ISSUANCE OF A BUILDING OR GRADING PERMIT. (HSC 17922.5, EFF. 3/6/76).
- 2. CONTRACTOR SHALL NOTIFY ARCHITECT AND OWNER OF ANY UNSTABLE OR QUESTIONABLE SOIL OR GEOLOGICAL CONDITIONS ENCOUNTERED DURING EXCAVATION.
- 3. WHERE A SOILS AND/OR GEOLOGY REPORT AND/OR GRADING PRE-INSPECTION REPORT HAS BEEN MADE, THEY SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS, AND CONTRACTOR SHALL FOLLOW ANY RECOMMENDATIONS CONTAINED THEREIN.
- 4. WHERE INTERIOR CRAWL SPACE OR ROOM, PIT OR BASEMENT FLOOR SLABS ARE BELOW EXTERIOR FINISH GRADE, CONTRACTOR SHALL PROVIDE DRAINAGE AT FOOTING PERIMETER WITH MIRADRI 860 MEMBRANE OR EQUAL WATERPROOFING OF ALL EXTERIOR SURFACES OF FOUNDATION RETAINING WALLS. DRAINAGE SHALL CONSIST OF 4" MIN. DIAMETER PVC SCHEDULE 40 PERFORATED PIPE SET BELOW FLOOR LINE, SLOPED TO DRAIN, AND CONNECTED UNDERGROUND TO APPROVED STORM DRAINAGE SYSTEM OR STREET. SOLID PIPE COLLECTING RUNOFF AND RUNNING TO THE STREET SHALL BE 6" MIN. DIAMETER PVC SCH 40 PIPE. PIPE SHALL BE SURROUNDED WITH 2 FEET OF 3/4" WASHED GRAVEL AND TOPPED WITH A FILTRATION FABRIC. DIRECTION OF HOLES IN PIPE SHOULD FACE DOWNWARD. PROTECT CARPORT AND LARGE EXTERIOR RETAINING WALLS WITH MIRADRAIN 6000 XL OR EQUIVALENT AND MIRACLAY WATERPROOFING. TO BE INSTALLED BY A CERTIFIED INSTALLER PER RECOMMENDATIONS ON EXPOSED ROCK SURFACE, WHICH IS SMOOTHED TO ELIMINATE SHAPE PROJECTIONS AND DEEP HOLES. GAP BETWEEN WALL AND WATERPROOFING TO BE FILLED WITH SAND/CEMENT SLURRY.
- 5. ALL CONCRETE FLOOR SLABS SHALL BE POURED OVER 2" OF SAND OVER A CONTINUOUS MINIMUM 6 MIL WATERPROOF MEMBRANE SET ON 2" SAND BED OVER 4" CRUSHED ROCK ON NATURAL OR COMPACTED SOIL. FOR SLABS SET BELOW EXTERIOR GRADES, THE CRUSHED ROCK BED SHALL BE DRAINED TO STORM DRAIN SYSTEM OR RELIEVED AT PERIMETER WITH A PERFORATED PIPE CONNECTED TO APPROVED STORM DRAIN SYSTEM OR STREET TO PREVENT SUBFLOOR SATURATION.
- 6. ANY LANDSCAPE OR PLANTER RETAINING WALLS AGAINST EARTH WHICH ARE SPECIFIED WITHOUT PERIMETER DRAINS SHALL BE PROVIDED WITH ADEQUATE WEEP HOLES SURROUNDED ON THE BACKSIDE BY A MINIMUM 6" OF GRAVEL BACKFILL AT BASE OF WALL. ALL ENCLOSED PLANTERS SHALL BE WATERPROOFED ON THE INSIDE AND SUPPLIED WITH BOTTOM DRAINS CONNECTED TO STORM DRAIN OXOTEM.
- 7. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE OF ALL FINISHED GRADE SURFACES, SIDEWALKS AND PATIOS AWAY FROM STRUCTURES AND VERIFY THAT ALL AREAS AFFECTED BY CONSTRUCTION ARE PROPERLY DRAINED, WITH NO PONDING.
- 8. CONTRACTOR SHALL REMOVE ALL EXCAVATED OR EXCESS SOIL, DEBRIS AND MATERIALS NOT REQUIRED BY CONSTRUCTION. CONFIRM ANY ITEMS TO REMAIN, OR TO BE SALVAGED WITH ARCHITECT AND OWNER PRIOR TO START OF CONSTRUCTION.
- 9. DAMP-PROOFING, WHERE REQUIRED, SHALL BE INSTALLED WITH MATERIALS AND AS REQUIRED IN I.C.C. SECTION R406.1.
- 10. CONTRACTOR SHALL PROVIDE TICKETS FOR ALL SPOILS LEAVING THE SITE.
- C. FRAMING, ETC.
- 1. DIMENSIONS IN PLAN ARE TO FACE OF STUD TYPICALLY U.N.O.
- 2. VERTICAL DIMENSIONS ARE TO TOP OF STRUCTURAL FRAMING U.N.O.
- 3. ALL NEW EXTERIOR WALLS ARE 2 X 6 @ 16" O.C. U.N.O.
- 4. ALL NEW INTERIOR WALLS ARE 2 X 4 @ 16" O.C. U.N.O.
- 5. IN ADDITION TO ANY STRUCTURAL GRADE REQUIREMENTS, ALL EXPOSED WOOD BEAMS AND POSTS SHALL BE SELECTED FOR BEST APPEARANCE GRADE, WITH A MINIMUM OF KNOTS, CRACKS AND CHECKS.
- 6. CONTRACTOR SHALL PROVIDE ACCESS TO ALL ATTIC AREAS AND PLUMBING AS REQUIRED BY CODE AND SHALL CONFIRM ACCESS LOCATIONS WITH ARCHITECT PRIOR TO FRAMING.
- 7. CONTRACTOR SHALL PROVIDE SCREENED THROUGH-WALL VENTILATION TO ENCLOSED GARAGE AREAS IF REQUIRED BY CODE AND SHALL CONFIRM VENT LOCATIONS WITH ARCHITECT PRIOR TO FRAMING.
- 8. CONTRACTOR SHALL COORDINATE FRAMING WITH PROPOSED LOCATIONS OF ELECTRICAL, MECHANICAL AND PLUMBING WORK SO AS

TO AVOID CHANGES IN FRAMING WHICH MIGHT CONFLICT WITH PROPOSED EQUIPMENT, FIXTURE OR DIFFUSER LOCATIONS.

- 9. PROVIDE FRAMED OPENINGS FOR MEDICINE CABINETS, IF ANY, DURING ROUGH FRAMING, CONFIRMING SIZE, LOCATION AND HEIGHTS
- OF OPENINGS WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 10. PROVIDE BLOCKING AS REQUIRED FOR CABINETS, TOILET PAPER HOLDERS, TOWEL BARS AND OTHER SPECIALTY ITEMS.
- 11. ALL EXPOSED WOOD BEAMS, DECKING OR OTHER MEMBERS INSTALLED PRIOR TO ENCLOSING THE BUILDING ENVELOPE AND COMPLETING ROOFING MEMBRANE SHALL BE PROTECTED DURING CONSTRUCTION AGAINST MOISTURE, STAINING AND OTHER DAMAGE BY PROTECTING WITH WEATHERPROOF PLASTIC WRAPPERS AND ADDITIONAL PROTECTIVE MEASURES AS MAY BE REQUIRED.
- 12. USE KILN-DRIED FRAMING FOR ALL FRAMED FLOOR OR WALL AREAS TO RECEIVE CERAMIC TILE, MARBLE OR GRANITE.
- 13. CROSS BRIDGE OR SOLID BLOCK JOINTS @ 8'-0" O.C. MAX. OR AS NOTED ON STRUCTURAL DRAWINGS.
- 14. PROVIDE 2X SOLID BLOCKING BETWEEN JOISTS AND RAFTERS @ POINTS OF SUPPORT.
- 15. IN COMBUSTIBLE CONSTRUCTION, FIRE BLOCKING SHALL BE PROVIDED TO CUT OFF ALL CONCEALED DRAFT OPENINGS (BOTH VERTICAL AND HORIZONTAL) AND TO FORM AN EFFECTIVE BARRIER BETWEEN STORIES, AND BETWEEN A TOP STORY AND THE ROOF SPACE. (R302.11)
- SEE STRUCTURAL NOTES AND DRAWINGS FOR ADDITIONAL INFORMATION.

A. GENERAL

- 1. CONTRACTOR SHALL ADVISE ARCHITECT AND OWNER IN WRITING OF ANY RECOMMEND CHANGES TO THE FOLLOWING NOTES AND SPECIFICATIONS AND SHALL SUBMIT WRITTEN CONFIRMATION TO ARCHITECT OF ANY CHANGES AND RECEIVE ARCHITECT'S WRITTEN APPROVAL PRIOR TO ORDERING OR INSTALLATION.
- 2. THE WORD "CONTRACTOR" MEANS THE GENERAL CONTRACTOR AND, WHERE APPLICABLE BY TRADE, SUBCONTRACTORS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING ALL NOTES PRIOR TO FINALIZING CONSTRUCTION CONTRACT.
- 4. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF ALL EXISTING CONDITIONS AT THE SITE AND REPORT TO THE ARCHITECT IN WRITING ANY DISCREPANCIES BETWEEN THE ACTUAL EXISTING CONDITIONS AND THE DRAWINGS FOR THE ARCHITECT'S DECISIONS AND INSTRUCTIONS BEFORE PROCEEDING WITH ANY WORK AFFECTED BY SUCH DISCREPANCIES.
- 5. ALL CONSTRUCTION AND DETAILS SHALL BE COMPLETED IN FULL COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REQUIREMENTS, INCLUDING CURRENT AMERICANS WITH DISABILITIES ACT (ADA), AND TITLE 24 ENERGY REQUIREMENTS.
- 6. PRIOR TO FINALIZING CONTRACT PRICES, CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING ALL NOTES AND DRAWINGS TO INCLUDE ANY SUBCONTRACT REQUIREMENTS OR INFORMATION WHICH MAY NOT BE INDICATED ON SUBCONTRACTOR'S SHEETS OR NOTES, BUT WHICH ARE INDICATED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
- 7. CONTRACTOR SHALL VERIFY ALL WORKS, DIMENSIONS AND DETAILS AND REPORT ANY DISCREPANCIES TO THE OWNER AND ARCHITECT PRIOR TO COMMENCING WORK. DURING CONSTRUCTION, THE OWNER AND ARCHITECT ARE TO BE ADVISED REGARDING ANY DISCREPANCIES IN MEASUREMENT, DIMENSION, LOCATION OR DETAILS PRIOR TO CONTRACTOR'S PROCEEDING WITH THAT PORTION OF THE WORK.
- 8. CONTRACTOR SHALL CONSULT REPRESENTATIVES OF LOCAL UTILITIES, INCLUDING GAS, WATER, POWER, SEWER, TELEPHONE AND TV WHERE APPLICABLE, CONCERNING LOCATIONS AND AVAILABILITY OF UTILITIES PRIOR TO COMMENCING WORK OR CONNECTING UTILITIES, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITY LINES.
- 9. CONTRACTOR SHALL RECORD LOCATIONS AND ELEVATIONS OF ALL EXISTING AND NEW UTILITY LINES, MAINS, AND METERS ON SITE PLAN AND DELIVER TO ARCHITECT ON COMPLETION OF CONSTRUCTION.
- 10. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSIONS ON DRAWINGS. IN NO EVENT IS A DIMENSION TO BE SCALED OFF THE DRAWINGS. IN GENERAL, LARGER SCALE DRAWINGS WILL GOVERN OVER SMALLER SCALE DRAWINGS. THE CONTRACTOR WILL BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION PRIOR TO PROCEEDING WITH AFFECTED WORK.
- 11. DETAILS ARE INTENDED TO SHOW FINAL EFFECT OF PARTS OF CONSTRUCTION. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT PARTICULAR JOB SITE DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED WITHIN THE SCOPE OF THE WORK AND CONSTRUCTION CONTRACT. ANY MODIFICATIONS REQUIRED IN DETAILS ARE TO BE FIRST REVIEWED AND CONFIRMED WITH THE ARCHITECT PRIOR TO CONSTRUCTION.
- 12. CONTRACTOR SHALL KEEP PREMISES SECURE, CLEAN, AND HAZARD FREE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THEIR EQUIPMENT, MATERIALS, AND WORK IN NEAT, CLEAN, ORDERLY, AND SAFE CONDITION AT ALL TIMES.
- 13. CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY BARRICADES, WATERPROOFING, AND DUST-PROOF PARTITIONS AS NEEDED FOR PROTECTION AGAINST ACCIDENT, AND SHALL CONTINUOUSLY MAINTAIN ADEQUATE PROTECTION OF HIS WORK AND THE OWNER'S PROPERTY FROM DAMAGE OR LOSS ARISING IN CONNECTION WITH CONSTRUCTION.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY TOILET FACILITIES ON THE JOB SITE IF NECESSARY OR REQUIRED BY LOCAL CODE.
- 15. CONTRACTOR SHALL REVIEW ALL ITEMS NOTED "VERIFY OR CONFIRM WITH OWNER OR ARCHITECT" WHICH MIGHT AFFECT COSTS PRIOR TO FINALIZING CONSTRUCTION CONTRACT AND SUBCONTRACTS, AND SHALL CONFIRM FINAL DECISIONS REGARDING SELECTION, MATERIALS, COLOR, FINISH OR OTHER SPECIFICATIONS NOT YET DECIDED REGARDING THESE ITEMS. CONTRACTOR SHALL INCLUDE THE COST OF THESE ITEMS WITHIN THE ORIGINAL CONTRACT PRICE.
- 16. SUBMITTALS: CONTRACTOR TO PROVIDE CUT SHEETS, MANUFACTURER'S SPECIFICATIONS, MATERIAL AND FINISH SAMPLES FOR ARCHITECT'S REVIEW PRIOR TO FINALIZING ITEM PURCHASE. SUBMITTALS REQUIRED FOR [BUT NOT LIMITED TO]: ITEMS REQUIRING CONFIRMATION OF LAYOUT, PLUMBING FIXTURES, LIGHTING FIXTURES, APPLIANCES, SECURITY SYSTEM, DESIGN BUILD ITEMS, WINDOW ASSEMBLIES, SEALANT, WATERPROOFING MEMBRANES, SKYLIGHT ASSEMBLIES, DOOR HARDWARE, FINISH MATERIALS, FINISHES [PAINT, STAIN ETC], CABINETRY, CUSTOM FABRICATIONS, STRUCTURAL STEEL, ITEMS LISTED AS REQUIRING REVIEW IN CONSULTANT'S DRAWINGS OR SPECIFICATIONS.
 - A. SHOP DRAWINGS: PROVIDE DIGITAL COPIES FOR ARCHITECT'S REVIEW.
 - B. CUT SHEETS/MANUFACTURER'S SPECIFICATIONS: PROVIDE DIGITAL COPIES FOR ARCHITECT'S REVIEW.
 C. MATERIAL SAMPLES: PROVIDE 3 OF EACH ITEM FOR ARCHITECT'S REVIEW.
 - D. PAINT: FINAL COLOR TO BE CONFIRMED BY 9 SQ. FT. SAMPLE IN PLACE. WHERE A 9 SQ. FT. SAMPLE IS NOT PRACTICAL
 - [RAILINGS, ETC.] SAMPLE IN PLACE TO BE 3' LONG.
 E. OTHER FINISHES: PROVIDE SAMPLE ON MIN 8" SQUARE PIECE OF FINISH MATERIAL FOR REVIEW.
- 17. THE ARCHITECT WILL HAVE 7 BUSINESS DAYS TO COMPLETE REVIEW OF ALL SUBMITTALS.
- 18. DESIGN BUILD ITEMS: SUBCONTRACTOR, GENERAL CONTRACTOR, OWNER AND ARCHITECT TO MEET PRIOR TO COMPLETION OF BID TO CONFIRM SCOPE OF WORK. SHOP DRAWINGS AND [WHERE APPLICABLE] MANUFACTURER'S SPECIFICATIONS WILL BE PROVIDED FOR ARCHITECT'S REVIEW PER GENERAL NOTES A16 & A17 PRIOR TO START OF WORK.
- 19. SUBSTITUTIONS: SUBSTITUTIONS WILL ONLY BE CONSIDERED WHERE THE OWNER WILL ATTAIN ADVANTAGE IN PRICE OR TIME REQUIRED TO COMPLETE THE WORK. SUBSTITUTIONS WILL ONLY BE CONSIDERED PRIOR TO COMMENCING WORK. UNDER NO CIRCUMSTANCES WILL SUBSTITUTIONS BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO ORDER MATERIAL IN A TIMELY MANNER TO MEET CONSTRUCTION SCHEDULES.
- 20. DESIGN WORK IS THE RESPONSIBILITY OF THE ARCHITECT. ANY CHANGE, MODIFICATION OR INTERPRETATION OF THE SCOPE OR REQUIREMENTS OUTLINED IN THESE DRAWINGS UNDERTAKEN WITHOUT CONSULTATION OF THE ARCHITECT [OR ANY UNFORSEEN CONDITIONS RESULTING THERE FROM] SHALL BE THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR RESPECTIVELY. AS STIPULATED IN THE OWNER/ARCHITECT AGREEMENT, THE ARCHITECT SHALL BE HELD HARMLESS FROM ANY CLAIMS RESULTING FROM SUCH ACTIVITY.
- 21. UNLESS ITEMS ARE SPECIFICALLY ITEMIZED AS NOT INCLUDED IN CONTRACT (NIC), THEY WILL BE ASSUMED TO BE INCLUDED IN THE ESTIMATE OR CONTRACT PRICE.
- 22. ANY ALLOWANCE ITEMS SHALL BE SPECIFICALLY IDENTIFIED AS ALLOWANCES AND INCLUDED IN THE ESTIMATE OR CONTRACT PRICE.
- 23. THE GENERAL CONTRACTOR SHALL REIMBURSE ARCHITECT FOR LABOR AND OTHER COSTS INVOLVED IN PROVIDING, RESEARCHING, ADDITIONAL DRAWINGS, DETAILS, OR ENGINEERING TO REVIEW SUBSTITUTIONS OR TO ADJUST THE DESIGN OR CONSTRUCTION DOCUMENTS DUE TO ERRORS, CHANGES, OR SUBSTITUTIONS MADE BY CONTRACTORS DURING CONSTRUCTION. SUCH REIMBURSEMENTS SHALL NOT BE INCLUDED IN THE PROJECT CONSTRUCTION COST AND SHALL BE PAID BY THE CONTRACTOR WITHOUT REIMBURSEMENT FROM THE OWNER.
- 24. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY EXTRA COSTS ARISING FROM THE EXECUTION OF HIS CONTRACT OR SUBCONTRACTS AND SHALL RECEIVE OWNER'S WRITTEN APPROVAL OF SAME PRIOR TO DOING THE WORK.
- 25. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPERVISING THAT ALL GENERAL AND SUBCONTRACT WORK IS BEING ACCOMPLISHED ACCORDING TO THE MOST CURRENT CONSTRUCTION DOCUMENTS, INCLUDING REVISIONS.
- 26. UNLESS OTHER ARRANGEMENTS ARE MADE, OWNER SHALL PROVIDE ADEQUATE PROPERTY AND LIABILITY INSURANCE IN ADDITION TO CONTRACTOR'S INSURANCE TO COVER ALL NEW WORK. THIS INSURANCE SHALL INCLUDE THE INTERESTS OF THE OWNER AND CONTRACTOR IN THE WORK, BUT SHALL NOT RELIEVE CONTRACTOR OF HIS RESPONSIBILITIES UNDER THE CONTRACT OR AS ITEMIZED
- 27. CONTRACTOR SHALL NOT USE ANY POTENTIALLY HAZARDOUS MATERIALS OR PRODUCTS IN THE CONSTRUCTION, AND SHALL ADVISE OWNER OF ANY POTENTIALLY HAZARDOUS MATERIALS OR PRODUCTS RECOMMENDED, SELECTED OR SPECIFIED PRIOR TO PURCHASING
- 28. CONTRACTOR SHALL PROVIDE PROPER VENTILATION, CLEARANCES AND FIRE PROTECTION FOR ALL NEW FIREPLACES, OVENS, WATER HEATERS, FURNACES, VENTS AND FLUES AS REQUIRED BY THE DRAWINGS, SPECIFICATIONS AND CODE.
- 29. CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY THE FIRE DEPARTMENT AND INSPECTOR.
- 30. SHORING AND BRACING: PROVIDE SHORING AND BRACING TO PRESERVE THE STRUCTURAL INTEGRITY AND PREVENT COLLAPSE OF EXISTING CONSTRUCTION THAT IS CUT INTO OR ALTERED AS PART OF THE SCOPE OF WORK.
- 31. DO NOT OVERLOAD ANY PART OF THE STRUCTURE BEYOND ITS SAFE CARRYING CAPACITY BY PLACING MATERIALS, EQUIPMENT, TOOLS, MACHINERY OR ANY OTHER ITEM THEREON.

32. ALL LINES, SYMBOLS, NOTES, SHADING, HATCHING, POCHE AND OTHER GRAPHIC DEVICES CONTAINED IN THE DRAWINGS CONTAIN SPECIFIC OR INFERRED MEANING. ITEMS INDICATED IN THIS WAY ARE REQUIRED BY THE OWNER AND ARCHITECT TO BE INCLUDED IN THE

GENERAL CONTRACTOR'S ORIGINAL BID. ANY ITEMS WHICH REQUIRE FURTHER CLARIFICATION BY THE ARCHITECT FOR THE SPECIFIC

BENEFIT OF THE CONTRACTOR MUST BE BROUGHT TO THE ARCHTIECT'S ATTENTION FOR CLARIFICATION PRIOR TO SUBMISSION OF THE BID.

33. THE CONTRACTOR SHALL PAY SPECIFIC ATTENTION TO ALL DIMENSIONED AND INFERRED PLAN AND SECTIONAL SPATIAL

RELATIONSHIPS, AND SHALL VERIFY ALL AXES, SYMMETRIES AND ALIGNMENTS WITH THE ARCHITECT PRIOR TO COMMENCING WORK,

- 34. ANY DIMENSIONS MARKED 'CLEAR' WILL NOT BE ADJUSTED WITHOUT THE AUTHORIZATION OF THE ARCHITECT.
- 35. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY NORMALLY OBTAINABLE IN THE RESPECTIVE TRADES AND EXECUTED BY SKILLED JOURNEYMEN. WORK WHICH, IN THE OPINION OF THE ARCHITECT, IS INFERIOR OR IMPROPERLY PERFORMED, SHALL BE REMOVED AND REPLACED AT THE EXPENSE OF THE CONTRACTOR.

ABBREVIATIONS

ELECT ELECTRICAL

ELEV ELEVATION

EQP

(E)

EMER EMERGENCY

EQUAL

EXHAUST

EXISTING

EXP EXPOSED

ENCLOSE(URE)

EQUIPMENT

ABBRE\	<u>/IATIONS</u>				
SVMBO	LS USED	EXS	EXTRA STRONG	PWD	PLYWOOD
	REVIATIONS	EXT	EXTERIOR	QT	QUARRY TILE
		FAS	FASTEN, FASTENER	R.	RISER
		FIN	FINISH (ED)	RA	RETURN AIR
@ AT		FF	FINISH FLOOR	RAD	RADIUS
€ CEN	ITERLINE	FHMS	FLATHEAD MACHINE SCREW	REF	REFRIGERATOR
⊥ PER	PENDICULAR	FHWS	FLATHEAD WOOD SCREW	REV	REVISION(S), REVISED
φ ROU	JND, DIAMETER	FL	FLASHING	RH	RIGHT HAND
	/IATIONS	FLR	FLOOR(ING), FLUORESCENT	RM	ROOM
		FT FY	FEET, FOOT	RO S	ROUGH OPENING
A/C	ANGUER BOLT	FV	FIELD VERIFY	S&P	SOUTH SHELF-POLE
AB	ANCHOR BOLT	FWC	FABRIC WALL COVERING	SCH	SCHEDULE
ACP	ASPHALTIC CONCRETE	GA GI	GAGE, GAUGE	SHT	SHEET
٨٦١	PAVING	GYP.	GALVANIZED IRON GYPSUM WALLBOARD	SIM	SIMILAR
ADJ ALUM	ADJUSTABLE ALUMINUM	HDR	HEADER	SPEC	
		HOR	HORIZONTAL	SQ	SQUARE
ANOD ARCH	ANODIZED ARCHITECT (URAL)	HR	HOUR	SST	STAINLESS STEEL
AUTO	AUTOMATIC	HT	HEIGHT	ST	STEEL
BD	BOARD	HVAC	HEATING/VENTILATING/	STD	STANDARD
BLDG	BUILDING	117710	AIRCONDITIONING	STFT	STOREFRONT
BLKG	BLOCKING	IN "	INCH, INCHES	STR	STRUCTURAL
BOT	BOTTOM	INCL	INCLUDE,(D),(ING)	SUSP	
BUR	BUILT UP ROOFING	INT	INTERIOR	SYM	SYMMETRY(ICAL)
C	CHANNEL	IPS	IRON PIPE SIZE	Т	TREAD
CAB	CABINET	JT	JOINT	T&G	TONGUE AND GROOVE
CEM	CEMENT	L	ANGLE	THK	THICKNESS
CI	CAST IRON	LAM	LAMINATE(D)	TV	TELEVISION
CJ	CONTROL JOINT	LBL	LABEL	TYP	TYPICAL
CLF	CHAIN LINK FENCE	LH	LEFT HAND	UON	UNLESS OTHERWISE NOTED
CLG	CEILING	LT	LIGHT	VCT	VINYL COMPOSITION TILE
CLR	CLEAR (ANCE)	MAX	MAXIMUM	VERT	VERTICAL
CMU	CONCRETE MASONRY	MBR	MEMBER	VIF	VERIFY IN FIELD
	UNIT	MECH	MECHANIC(AL)	VT	VINYL TILE
CO	CASED OPENING	MED	MEDIUM	VTR	VENT THROUGH ROOF
COL	COLUMN	MTL	METAL	VWC	VINYL WALL COVERING
CONC	CONCRETE	MFR	MANUFACTURE (ER)	W	WEST, W SHAPE
CONST	CONSTRUCTION	MIN	MINIMUM	W/	WITH
CONT	CONTINUOUS OR	MISC	MISCELLANEOUS	WI	WROUGHT IRON
	CONTINUE	MO	MASONRY OPENING	WM	WIRE MESH
CT	CERAMIC TILE	N	NORTH	WP	WATERPROOFING
CTSK	COUNTERSUNK	(N)	NEW	WWF	WELDED WIRE FABRIC
DEPT	DEPARTMENT	NAT	NATURAL		
DIM	DIMENSION	NIC	NOT IN CONTRACT		
DIV	DIVISION	NO#	NUMBER		
DN	DOWN	NOM	NOMINAL		
DO	DITTO	NTS	NOT TO SCALE		
DR	DOOR	OC	ON CENTER		
DSA	DIVISION OF THE STATE	OD	OUTSIDE DIAMETER		
DWO	ARCHITECT	OPNG	OPPOSITE		
DWG	DRAWING	OPP OPT	OPTIONAL		
E	EAST	DEDE	OPTIONAL		

PERF PERFORATED

PLAM PLASTIC LAMINATE

POC POINT OF CONNECTION

PVC POLY VINYL CHLORIDE

PSI POUNDS PER SQUARE INCH

PTD PAINTED

PLAS PLASTIC

PR PAIR



integrated design construction management sustainability

TO HELP EVERYONI LENNOX CLINIC 10223 FIRMONA AVE.

| drawn by | checked by | proj

FINISHES PRESENTATION
30% CONSTRUCTION DOCUME
50% CONSTRUCTION DOCUME
PLAN CHECK SUBMITTAL
-

02/15

GENERAL NOTES & ABBREVIATIONS

A0.2a

OTHER FINISH ITEMS:

24. EXPOSED CONCRETE FLOORS SHALL BE POLISHED AND SEALED PER OWNER/ARCHITECT'S APPROVED SAMPLE, W/ CONSTRUCTION JOINT LINES AS SHOWN ON PLAN.

25. ALL CABINETRY AND MILLWORK SHALL BE ACCORDING TO CURRENT WOODWORKERS INSTITUTE OF CALIFORNIA HANDBOOK STANDARDS, CUSTOM GRADE. ALL DRAWERS AND SLIDING UNITS TO BE INSTALLED WITH FULL EXTENSION, DAMPENING GUIDES. CONFIRM CABINET STYLE, CONSTRUCTION TYPE, HINGES AND HARDWARE WITH ARCHITECT PRIOR TO FINALIZING CONSTRUCTION CONTRACT. CABINET SUBCONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS OF ALL CABINETS, COUNTERS, AND OTHER BUILT-IN CABINETRY TO ARCHITECT FOR REVIEW. A SAMPLE CABINET FRONT SHALL BE PROVIDED FOR OWNER'S AND ARCHITECT'S REVIEW PRIOR TO MANUFACTURING CABINETS. INSTALL PAIRS OF SMALL CLEAR RUBBER CUSHIONS INSIDE ALL DOORS AND DRAWER FRONTS FOLLOWING CABINET INSTALLATION.

26. ALL CABINETRY AND MILLWORK TO BE CONSTRUCTED OUT OF UREA FORMALDEHYDE FREE SUBSTRATES. PROVIDE ARCHITECT WITH MSDS PRIOR TO FABRICATION.

27. ALL CUSTOM RUN WOOD MOLDINGS, PANELING AND OTHER MILLWORK SHALL BE TESTED BEFORE, DURING AND AFTER MILLING SO THE PROPER MOISTURE CONTENT (DRYNESS) IS CONSISTENTLY MAINTAINED.

28. CONTRACTOR SHALL INCLUDE IN CONSTRUCTION CONTRACT INSTALLATION OF ALL FINISH HARDWARE, INCLUDING BUT NOT LIMITED TO CABINET PULLS, KNOBS, DOOR STOPS, TOWEL BARS, TOILET PAPER HOLDERS AND OTHER MISCELLANEOUS ITEMS, REGARDLESS OF WHETHER THESE ITEMS ARE SUPPLIED BY OWNER OR AN ALLOWANCE.

29. CONTRACTOR SHALL REVIEW RAILINGS AND RAILING DETAILS WITH ARCHITECT PRIOR TO FINALIZING CONTRACT. RAILING SUBCONTRACTOR SHALL SUBMIT SAMPLES AND DETAILED SHOP DRAWINGS FOR ARCHITECT'S REVIEW PRIOR TO MANUFACTURE.

30. WHERE FACTORY PRIMED ITEMS OCCUR, SUCH AS GRILLES, DIFFUSERS, METAL TRIM AND ACCESSORIES, ETC.. PAINT TO MATCH THE ADJACENT SURFACE OR AS DIRECTED BY THE ARCHITECT. REFER TO SPECIFICATIONS FOR ALL OTHER ITEMS NOT INCLUDED ON FINISH SCHEDULE.

31. PROVIDE NON-ABSORBENT WALL ADJACENT TO SHOWER, 70" HIGH MINIMUM ABOVE DRAIN PAINT TO MATCH THE ADJACENT SURFACE OR AS DIRECTED BY THE ARCHITECT. REFER TO SPECIFICATIONS FOR ALL OTHER ITEMS NOT INCLUDED ON FINISH SCHEDULE.

32. ALL STONE, WOOD, DECKS, COUNTERTOPS, FLOORS AND SIDINGS SHALL BE SEALED WITH (2) COATS MINIMUM OF MATT FINISH CLEAR SEALER, APPROPRIATE FOR EACH GIVEN MATERIAL UNLESS OTHERWISE NOTED. CONTRACTOR TO PREPARE SAMPLES FOR APPROVAL.

PAINTING:

1. BEFORE BEGINNING, INSPECT ALL WORK TO BE PAINTED OR STAINED AND REPORT TO ARCHITECT ANY CONDITIONS WHICH WILL PREVENT A QUALITY FINISH FROM BEING ACCOMPLISHED. COMMENCING OF WORK BY THE CONTRACTOR INDICATES HIS ACCEPTANCE OF THE SURFACES.

2. AFTER PRIMING HAS DRIED, APPLY PIGMENTED WHITE SHELLAC TO ALL KNOTS, PITCH AND SAPWOOD: PUTTY ALL NAIL HOLES, CRACKS, OPEN JOINTS AND OTHER DEFECTS.

3. TOPS AND BOTTOMS OF ALL DOORS SHALL BE FULLY SEALED, SANDED, AND PAINTED AFTER CUTTING AND PRIOR TO HANGING.

4. TO AVOID OVERPAINTING ON FINISHED HARDWARE, INCLUDING DOOR HINGES, ALL CABINETS, WOOD WINDOWS, AND DOORS SHALL BE HUNG, COMPLETELY WEATHERSTRIPPED AND FITTED WITH LOCKSETS AND FINISH HARDWARE, THEN ENTIRELY REMOVED AND STRIPPED OF HARDWARE FOR FINISH PAINTING AND/OR STAINING.

5. REMOVE ALL ELECTRIC PLATES, SURFACE HARDWARE, ETC., BEFORE PAINTING, PROTECT, AND REPLACE WHEN COMPLETED.

6. PAINTING COATS AS SPECIFIED ARE INTENDED TO COVER SURFACES COMPLETELY; IF NOT, FURTHER COATS SHALL BE APPLIED.

7. ALL EXTERIOR STAINS SHALL BE SIKKENS, MANDERS, PENOFIN OR APPROVED EQUAL.

8. PRIOR TO SEALING INTERIOR PLASTER OR DRYWALL, CONTRACTOR SHALL VERIFY ANY SURFACES TO RECEIVE PAPER, AND SHALL OBTAIN WRITTEN APPROVAL OF THE SPECIFIC SEALER PRODUCT TO BE USED FROM THE PAPER MANUFACTURER AND HANGER.

9. NATURAL WOOD FINISH INTERIOR PANELING, CABINETS, DOORS AND OTHER WOODWORK SHALL BE STAINED, IF REQUIRED, AND FINISHED WITH A FLAT EGGSHELL LACQUER SANDING SEALER AS SPECIFIED BY ARCHITECT. ON SOFT WOODS, APPLY A COAT OF SANDING SEALER PRIOR TO STAINING. CONFIRM STAIN AND FINISH SELECTIONS WITH ARCHITECT AND PROVIDE FINISHED SAMPLES ON THE ACTUAL WOODS USED FOR ARCHITECT'S AND OWNER'S APPROVAL PRIOR TO STARTING WORK.

10. PRIOR TO APPLICATION, CONTRACTOR SHALL ADVISE OWNER AND ARCHITECT OF ANY FINISHES, FACTORY OR SITE APPLIED, WHICH DO NOT OR CANNOT MEET HIGHEST QUALITY SPECIFICATION STANDARDS.

11. FINAL COLOR TO BE CONFIRMED BY 9 SQ. FT. SAMPLE IN PLACE. WHERE A 9 SQ. FT. SAMPLE IS NOT PRACTICAL [RAILINGS, ETC.] SAMPLE IN PLACE TO BE 3' LONG.

J. UTILITIES, PLUMBING, DRAINAGE, ETC.

1. GENERAL CONTRACTOR SHALL CONFIRM ARRANGEMENTS FOR ANY TEMPORARY POWER AND TELEPHONE SERVICE WITH OWNER PRIOR TO FINALIZING CONTRACT. SEE ELECTRICAL NOTES FOR ADDITIONAL NOTES. SEE ELECTRICAL PLANS FOR ELECTRICAL WORK.

2. EXCEPT AS PROVIDED IN THE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL DESIGN, PREPARE NECESSARY PLANS, HAVE PLANS CHECKED AND OBTAIN BUILDING PERMITS FOR ALL PLUMBING SYSTEMS AND EQUIPMENT.

3. CONTRACTOR SHALL PROVIDE AND INSTALL NEW UNDERGROUND WATER AND GAS SUPPLY LINES AND VERIFY THAT METER, MAIN, TANK AND LINE SIZES ARE ADEQUATE TO PROVIDE ACCEPTABLE PRESSURE AND VOLUME TO ALL FIXTURES AND APPLIANCES.

4. ALL NEW WATER SUPPLY LINES SHALL BE COPPER AND ALL NEW AND ACCESSIBLE EXISTING HOT WATER LINES SHALL BE INSULATED WITH R-300 OR GREATER PIPE INSULATION WITH VAPOR BARRIER. NO SOFT COPPER LINES PERMITTED. WATER LINES SHALL BE CUSHIONED WHERE PENETRATING OR TANGENT TO WOOD FRAMING TO REDUCE SOUND.

5. ALL UNDERGROUND COPPER LINES SHALL BE TYPE L.

6. COPPER LINES SHALL HAVE ISOLATION COUPLINGS WHERE CONNECTING TO EXISTING GALVANIZED IRON OR STEEL PIPE WHICH CANNOT BE CHANGED TO COPPER.

7. MAIN WATER LINE TO DOMESTIC SYSTEM SHALL BE INSTALLED WITH SEPARATE GATE VALVE AND PRESSURE REGULATOR AT HOUSE

8. HOSE BIBS AND IRRIGATION SYSTEMS SHALL NOT BE CONNECTED TO BUILDING WATER SYSTEM, BUT SHALL BE FED FROM MAIN WATER LINE BEFORE BUILDING SYSTEM PRESSURE REGULATOR AND MAIN VALVE.

9. ALL HOT AND COLD SHOWER AND TUB SUPPLY LINES SHALL BE MINIMUM 3/4".

10. CONTRACTOR SHALL PROVIDE NEW MAIN UNDERGROUND SEWER LINES AND NEW WASTE LINES OF SUFFICIENT SIZE, INCLUDING ACCESSIBLE CLEANOUTS AT CONNECTIONS, BENDS OR ELSEWHERE AS REQUIRED BY CODE.

11. ALL SANITARY SEWER PIPING SHALL BE CAST IRON UNLESS OTHERWISE APPROVED BY ARCHITECT. PLASTIC DRAIN, WASTE OR VENT PIPE, WHERE PERMITTED, SHALL BE A.B.S. AS APPROVED PER ASTM STANDARD D2261-73. WASTE LINES INSIDE THE STRUCTURE ABOVE THE FIRST FLOOR LINE SHALL BE FULLY WRAPPED WITH INSULATION TO REDUCE SOUND.

12. CATCH BASINS SHALL BE INSTALLED WHERE INDICATED ON PLANS OR REQUIRED BY JOB SITE CONDITIONS, AND SHALL BE CONNECTED UNDERGROUND TO STREET OR STORM SEWER. CATCH BASINS SHALL BE CONCRETE AND PROVIDED WITH CAST IRON GRILLS.

13. UNLESS OTHERWISE NOTED OR REQUIRED BY CODE, ALL UNDERGROUND STORM DRAIN LINES SHALL BE PVC MIN. SCHEDULE 40 AND MIN. 4" DIAMETER OR GREATER AS REQUIRED TO HANDLE LOAD. ALL CONNECTIONS SHALL BE PROPERLY JOINED AND SEALED SO THAT THEY ARE WATER-TIGHT. SEE ROOF SECTION FOR ADDITIONAL INFORMATION REGARDING COORDINATION WITH ROOF DRAINAGE.

14. LINES UNDER A PUBLIC SIDEWALK SHALL BE CAST IRON, MIN. 4" DIAM., CONSTRUCTED PER PUBLIC WORKS REQUIREMENTS AND SHOULD BE INSTALLED MINIMUM 2' BELOW SLAB.

15. FLUSH OUT ALL WATER SUPPLY LINES PRIOR TO CONNECTING FIXTURES. LINES ARE TO BE CHEMICALLY WASHED.

16. ALL PLUMBING FITTINGS SHALL BE C.E.C. CERTIFIED.

17. ALL STORM WATER PIPES THROUGH THE BUILDING SHALL BE CAST IRON.

I. FINISHES, CABINETRY, RAILINGS, ETC.

1. CONTRACTOR SHALL SUBMIT ACTUAL MATERIAL SAMPLES FOR ARCHITECT'S AND OWNER'S REVIEW OF ALL FINAL FINISH MATERIALS, PAINT AND STAINS PRIOR TO ORDERING MATERIALS.

STUCCO:

2. LATH MUST HAVE WATER RESISTANT, WATERPROOF ASPHALT IMPREGNATED PAPER BACKING. WHERE LATH IS PLACED OVER MONOLITHICALLY SHEATHED WALLS, A SECOND LAYER OF WATERPROOF ASPHALT IMPREGNATED PAPER IS TO BE APPLIED UNDER PAPER BACKED LATH. BOTH LAYERS OF PAPER MUST BE KEPT COVERED AND PROTECTED FROM SUNLIGHT AT ALL TIMES PRECEDING STUCCO

3. EXTERIOR STUCCO SHALL BE MINIMUM 3-COAT APPLICATION WEIGHING NOT LESS THAN 3.4 LB. PER SQ. YD. AFTER FABRICATION OVER EXPANDED METAL SMALL DIAMOND MESH LATH, FABRICATED FROM GALVANIZED SHEETS, AND SECURELY FASTENED OVER FACTORY APPLIED PAPER WATERPROOF BACKING OVER DOUBLE PLY REINFORCED ASPHALT IMPREGNATED LAMINATED PAPER CONFORMING TO REQUIREMENTS OF FED. SPEC UU-B-790B AND APPLICABLE BUILDING CODES. TWO LAYERS ARE REQUIRED OVER PLYWOOD SHEATHED

4. WHEN PLASTERING OVER OPEN FRAMING, THE PLASTER THICKNESS MUST BE A MIN. OF 7/8"; OVER MASONRY OR CONCRETE, A 2-COAT MIN. 1/2" THICKNESS IS ACCEPTABLE.

5. ALL WINDOW, DOOR AND OTHER OPENING CORNERS SHALL BE REINFORCED WITH EXPANDED METAL LATH NAILED DIAGONALLY ACROSS CORNER.

6. INSTALL CONTINUOUS WEEP SCREEDS AT BASE OF STUCCO WALLS TO LAP OVER CONCRETE FOUNDATIONS JUST BELOW GROUND FLOOR FRAMING SILL PLATE, TYPICAL. AT ALL HARD SURFACE EXTERIOR PAVED SURFACES SUCH AS PATIOS, DRIVEWAYS, ETC., INSTALL WEEP SCREED 2" ABOVE FINISHED PAVING AND LEAVE UNCAULKED.

7. UNLESS NOTED OTHERWISE, STUCCO SURFACES SHALL BE STRAIGHT AND PLUMB WITH NO WOBBLE, WAVE, OR IRREGULARITIES OVER THE COURSE OF THE WALL PLANE.

8. CONFIRM STUCCO FINISH INCLUDING COLOR AND TEXTURE WITH ARCHITECT PRIOR TO FINALIZING ESTIMATE.

DRYWALL / INTERIOR PLASTER:

10. UNLESS NOTED OTHERWISE, ALL PLASTER AND DRYWALL MATERIALS AND INSTALLATION SHALL BE ACCORDING TO CURRENT U.S. GYPSUM HANDBOOK SPECIFICATIONS AND APPLICABLE CODE REQUIREMENTS.

USE WATERPROOF DRYWALL IN ALL BATHROOMS, KITCHENS, JANITOR'S CLOSETS AND DAMP AREAS.

11. STANDARD DRYWALL INSTALLATIONS: BLOCK ALL PANEL EDGES AND USE DRYWALL SCREWS FOR ALL PANEL INTERIOR (FIELD) FASTENING. ALL CORNER BEADS AND EDGE TRIM SHALL BE SET LEVEL OR PLUMB, STRAIGHT AND TRUE AND CHECKED PRIOR TO TAPING. GO OVER TAPING AS MANY TIMES AS NECESSARY TO OBTAIN AN EVEN FINISH PRIOR TO APPLYING SKIM COAT. APPLY SKIM COAT AND FINISH SMOOTH. NO TAPE JOINTS OR SCREW LOCATIONS SHALL BE VISIBLE. WHEN COMPLETELY DRY, ROLL ON PAINT PRIMER COAT (DO NOT BRUSH OR SPRAY), THEN SAND LIGHTLY TO SMOOTH FINISH. TOUCH UP DRYWALL AS REQUIRED AND SPOT PRIME TOUCH-UPS PRIOR TO APPLYING FINAL PAINT COATS.

12. GYPSUM WALL BOARD SHALL BE 5/8" THICKNESS UNLESS OTHERWISE NOTED AND TYPE X FIRE RESISTANT GYPSUM BOARD WHERE REQUIRED BY THE APPLICABLE FIRE BUILDING CODES.

13. INTERIOR 1-COAT VENEER GYPSUM WALL BOARD INSTALLATIONS SHALL BE ACCORDING TO U.S GYPSUM "DIAMOND VENEER SYSTEM", 5/8" BASE BOARD PLUS 1-COAT "DIAMOND" VENEER PLASTER, SMOOTH FINISH.

CERAMIC TILE / STONE:

16. MARBLE OR GRANITE WORK SHALL BE IN ACCORDANCE WITH THE MASONRY INSTITUTE OF AMERICA AND BUILDING STONE INSTITUTE GUIDELINES. VERIFY ALL CORNER, EDGE, SPLASH, AND OTHER DETAILS WITH ARCHITECT PRIOR TO STARTING CONSTRUCTION.

17. ALL CERAMIC, MARBLE, GRANITE, SLATE OR OTHER TILE WORK SHALL BE ACCORDING TO CURRENT STANDARDS AND SPECIFICATIONS OF THE TILE COUNCIL OF AMERICA AND CERAMIC TILE INSTITUTE. VERIFY ALL LAYOUTS, TRIM SHAPES, GROUT SELECTIONS AND WIDTH, AND OTHER SPECIFICATIONS WITH ARCHITECT PRIOR TO ORDERING TILE.

18. UNLESS OTHERWISE SPECIFIED, TILE SHALL BE INSTALLED ON A WIRE-REINFORCED MORTAR BED OVER A CLEAVAGE MEMBRANE. ALL DUST SHALL BE COMPLETELY WASHED OFF TILE PRIOR TO APPLICATION OF THE BOND COAT. BONDING MORTAR SHALL COVER 100% OF BOTH THE TILE AND THE SURFACE TO BE COVERED APPROXIMATELY 1/8" THICK. ON MARBLE TILE, USE GRAY BONDING MORTAR WITH DARKER TILE, WHITE BONDING MORTAR WITH LIGHT COLORED TILE.

19. THE USE OF GYPSUM BOARD FOR TILED WALLS OR CEILINGS IN SHOWERS AND OTHER WET AREAS IS PROHIBITED, EVEN FOR BACKING.

20. THE USE OF WONDER BOARD OR DUROCK WILL BE ACCEPTABLE FOR TILE SETTING BED BACKING ONLY, IF A WATERPROOF MEMBRANE IS INSTALLED BEHIND BOARD OVER STUDS. USE FULL SHEETS WHEREVER POSSIBLE TO ELIMINATE JOINTS. WHERE JOINTS ARE UNAVOIDABLE, HOLD BOARDS APART 1/8" AND USE 2" FIBERGLASS TAPE TO REINFORCE JOINTS. APPLY MIN. 1/2" THICK MORTAR BED PLUS 1/8" BONDING OVER BACKING SURFACES.

21. INSTALLATION OF QUARRY OR CLAY TILE, BRICK OR OTHER CERAMIC OR MASONRY PRODUCTS SHALL USE A MAX. OF .6% BY WEIGHT LOW ALKALI SULFATE CEMENT MORTAR WITH CLEAN WASHED SAND AND ALKALI SULFATE-FREE WATER TO CONTROL EFFLORESCENCE. CONTRACTOR SHALL REQUIRE TILE OR BRICK MANUFACTURER TO WICK TEST AND CERTIFY IN WRITING TO ARCHITECT THAT MATERIAL IS NON-EFFLORESCENCE CONTRIBUTING.

22. CONTRACTOR SHALL BE RESPONSIBLE FOR ORDERING ALL CERAMIC TILE AND OTHER FINISH MATERIALS WITH ENOUGH LEAD TIME SO THAT ORDERED MATERIAL CAN BE CONFIRMED AS ACCEPTABLE, AND ANY UNACCEPTABLE MATERIAL REPLACED, WITHOUT DELAYING CONSTRUCTION.

23. FINISH CAULKING FOR TUBS, SHOWERS, COUNTERS, AND OTHER ITEMS SHALL BE COLOR-MATCHED SILICON LATEX CAULK.

D. ROOF, ROOF FLASHING & DRAINAGE

1. ALL ROOFS TO BE MIN. CLASS A, 20 YEAR BONDABLE, MEETING CODE AND SPECIFICATIONS REQUIREMENTS. CONFIRM SPECIFICATIONS WITH OWNER & ARCHITECT. SEE DRAWINGS.

2. GENERAL CONTRACTOR, ROOFING, MEMBRANE, AND FLASHING CONTRACTORS SHALL EACH FURNISH AN UNCONDITIONAL WRITTEN GUARANTEE TO OWNER COVERING ALL MATERIALS AND INSTALLATION OF ALL NEW ROOFING, FLASHINGS AND WATER-PROOF MEMBRANES FOR A PERIOD OF 10 YEARS FOLLOWING FINAL COMPLETION OF CONSTRUCTION.

3. CONTRACTOR SHALL EMPLOY A QUALIFIED INDEPENDENT INSPECTION SERVICE FOR INSPECTION OF THE ROOF INSTALLATION, INCLUDING ANY INSULATION AND FLASHINGS, AND SHALL CONFIRM ARRANGEMENTS WITH OWNER, ARCHITECT, MANUFACTURER'S REPRESENTATIVE AND ROOFING CONTRACTOR PRIOR TO CONSTRUCTION.

4. ALL ROOF, PARAPET, CHIMNEY AND OTHER FLASHINGS SHALL BE INSTALLED SO THAT THEY ARE WATER-TIGHT. NOTIFY ARCHITECT OF ANY POINTS WHERE WATER OR MOISTURE MAY PENETRATE FOR ADDITIONAL WATER PROTECTIVE MEASURES. PARAPET COPING CAPS SHALL BE INSTALLED SO AS TO BE CONTINUOUS AND LEVEL, WITH WELDED SEAMS, AND SHALL BE INSTALLED TO SLOPE A MINIMUM OF 1/2" PER FOOT TOWARDS THE ROOF SIDE. UNLESS SPECIFIED, SHEET METAL GAUGE SHALL BE SUFFICIENT TO WITHSTAND DENTING OR BENDING, 24 GAUGE MINIMUM.

5. ALL COPINGS, SCUPPERS, GUTTERS, DOWNSPOUTS, LEADER BOXES OR OTHER SHEET METAL WORK SHALL BE PROPERLY FLASHED AND SHALL HAVE WELDED OR SEALED WATERPROOF JOINTS. ALL BENDS, SEAMS, SPLICES OR OTHER CONNECTIONS SHALL BE STRAIGHT, SMOOTH AND CONTINUOUS WITHOUT DIMPLES OR DENTS. UNLESS SPECIFIED, SHEET METAL GAUGE SHALL BE SUFFICIENT TO WITHSTAND DENTING OR BENDING, 24 GAUGE MINIMUM.

6. PROVIDE GALVANIC OR BITUMINOUS INSULATION BETWEEN DISSIMILAR METALS.

7. ALL EXTERIOR CAULKING SHALL BE HIGHEST QUALITY EXTERIOR GRADE SILICON CAULK RECOMMENDED FOR EXTREME TEMPERATURE VARIATION. CONFIRM COLOR WITH ARCHITECT FOR SPECIFIC APPLICATIONS.

8. ALL GUTTERS AND DOWNSPOUTS TO BE 20' CONTINUOUS SECTIONS MINIMUM WITH HIDDEN FASTENERS AT ALL JOINTS AND CAPS.

E. ENERGY/INSULATION: CALIFORNIA STATE DESIGN STANDARDS

1. ALL NEW EXTERIOR WALLS SHALL BE INSULATED WITH INORGANIC GLASS FIBER INSULATION CONFORMING TO FEDERAL SPECIFICATION ASTM C-665, TYPE II, CLASS C FOR KRAFT-FACED THERMAL BATTS, WITH A MINIMUM THERMAL RESISTANCE OF NOT LESS THAN R-19.

2. ALL NEW CEILINGS AND ATTICS SHALL BE INSULATED WITH INORGANIC GLASS FIBER INSULATION CONFORMING TO FEDERAL SPECIFICATION ASTM C-665, TYPE II, CLASS C FOR KRAFT-FACED THERMAL BATTS, WITH A MINIMUM THERMAL RESISTANCE OF NOT LESS THAN P. 30

3. INSULATION THICKNESS AND THERMAL RESISTANCE SHALL CONFORM TO TITLE 24 REGULATIONS FOR CLIMATE ZONE OF JOB SITE. CONFIRM INSULATION TYPE AND THICKNESS WITH OWNER AND ARCHITECT PRIOR TO FINALIZING GENERAL CONSTRUCTION CONTRACT.

4. BUILDINGS LOCATED IN CLIMATE ZONES 1, 14 AND 16 SHALL BE PROVIDED WITH VAPOR BARRIERS. SWINGING DOORS OR WINDOWS TO THE EXTERIOR OR UNCONDITIONED SPACES SUCH AS GARAGES SHALL BE FULLY WEATHERSTRIPPED AND GASKETED TO LIMIT AIR INFILTRATION.

5. ANY OPERABLE GLASS DOORS OR WINDOWS SHALL BE CERTIFIED AND LABELED TO SHOW CONFORMANCE WITH AIR INFILTRATION 4 STANDARDS FOR 1972 AMERICAN NATIONAL STANDARDS INSTITUTE (A134.1, A134.2, A134.3, A134.4) WHEN TESTED PRESSURE DIFFERENTIAL OF 1.57, 16/FT2. AS PER ASTM E293-73. CONFIRM TYPE OF WEATHERSTRIPPING AND SPECIFICATIONS WITH ARCHITECT PRIOR TO FINALIZING CONSTRUCTION CONTRACT AND SUBCONTRACTS.

6. ALL CONTINUOUSLY CIRCULATING DOMESTIC HEATING OR HOT WATER PIPING SHALL BE INSULATED AS REQUIRED BY THE MOST CURRENT PLUMBING CODE.

7. A CERTIFICATE OF COMPLIANCE (AVAILABLE AT BUILDING DEPARTMENT OFFICE) SHALL BE SIGNED BY THE INSULATION CONTRACTOR, CERTIFYING CONFORMANCE WITH CURRENT ENERGY REGULATION: CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, STATE OF CALIFORNIA. CERTIFICATE SHALL BE PROMINENTLY POSTED ON THE SITE.

8. THE BUILDING DESIGN MEETS THE REQUIREMENTS OF THE CURRENT VERSION OF TITLE 24. ALL INSULATION MATERIALS SHALL BE CERTIFIED BY THE MANUFACTURER AS COMPLYING WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

9. ALL FAN SYSTEMS EXHAUSTING AIR FROM THE BUILDING SHALL BE PROVIDED WITH BACK DRAFT DAMPERS.

10. CAULK AROUND ALL PLUMBING, ELECTRICAL AND OTHER PENETRATIONS INTO THE BUILDING ENVELOPE.

11. DUCTS SHALL BE CONSTRUCTED, INSTALLED AND INSULATED ACCORDING TO CHAPTER 10 OF THE LATEST EDITION OF THE UNIFORM MECHANICAL CODE. ALL PARTS OF THE DUCT SYSTEM SHALL BE TIGHTLY SEALED WITH MASTIC OR TAPE.

12. THERMOSTATICALLY CONTROLLED HEATING OR COOLING SYSTEMS (EXCEPT HEAT PUMPS) SHALL HAVE AN AUTOMATIC THERMOSTAT WITH A CLOCK MECHANISM WHICH CAN BE MANUALLY PROGRAMMED TO AUTOMATICALLY SET BACK THE THERMOSTAT SET POINTS FOR AT LEAST TWO PERIODS WITHIN 24 HOURS.

13. PROVIDE ACOUSTIC INSULATION IN ALL INTERIOR PARTITIONS WHERE THERMAL INSULATION IS NOT REQUIRED.

ALSO SEE MECHANICAL NOTES.

F. DOORS, WINDOWS

1. CONFIRM MANUFACTURER'S DOOR, WINDOW, HARDWARE AND SCREEN SELECTIONS AND FINISHES WITH ARCHITECT FOR ALL UNITS PRIOR TO ORDERING.

2. PRIOR TO INSTALLATION, ALL PAINTED WOOD DOOR AND WINDOW FRAMES SHALL BE PRIMED WITH AN APPROVED PRIMER COMPATIBLE WITH FINISH PAINT SPECIFICATIONS, INCLUDING BACK SIDES OF FRAMES, FRAME BUCKS AND END GRAIN CUTS. STAINED WOOD FRAMES SHALL BE BACK-PRIMED SO AS NOT TO SHOW IN FINISH.

3. GLASS DOORS, ADJACENT GLASS PANELS WITHIN 24" OF DOORS, AND ALL GLAZED OPENINGS WITHIN 18" OF THE ADJACENT FLOOR OR LANDING SHALL BE OF GLASS APPROVED FOR IMPACT HAZARD.

4. ALL GLASS USED FOR GLAZING EXTERIOR OPENINGS SHALL BE LIMITED IN AREA AND THICKNESS AS SHOWN BY TABLE NO. 2403.2.1 AND AS MODIFIED BY TABLE NO. 2403.6 OF THE 2013 CBC.

5. MANUFACTURED DOORS AND WINDOWS SHALL BE CERTIFIED AND LABELED IN COMPLIANCE WITH THE APPROPRIATE INFILTRATION STANDARDS. CAULK PLUMBING AND ELECTRICAL PENETRATIONS, ALL WINDOW AND DOOR FRAMES, BETWEEN WALL SOLEPLATES AND FLOORS AND ALL OTHER OPENING IN THE ENVELOPE. ALL EXTERIOR OPENINGS SHALL BE PROPERLY WEATHERSTRIPPED.

6. ALL EXTERIOR DOORS SHALL BE WEATHERSTRIPPED AT HEADS, JAMBS, AND MEETING STILES PER MANUFACTURER'S SPECS. ALL

EXTERIOR DOOR SILLS SHALL BE PROVIDED WITH EXTRUDED INTERLOCKING THRESHOLDS WITH CONCEALED HOOKS AND RAIN DRIPS.

SEE ENERGY SECTION FOR ADDITIONAL INFORMATION REGARDING WEATHERSTRIPPING, ETC.

WEATHERSTRIPPING SHALL BE BY PEMKO OR EQUAL AS APPROVED BY ARCHITECT.

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O. FIRE DEPARTMENT NOTES:

1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED

2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).

3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.

4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.

5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS.

6. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR

7. DOOR HANDLES, LOCK AND OTHER OPERATING DEVICES SHALL BE INSTALLED AT A MIN. 34" AND MAX. 48" ABOVE THE FINISHED FLOOR.

8. THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.

9. ALL EGRESS DOOR OPERATION SHALL ALSO COMPLY WITH SECTION 1008.1.9 - 1008.1.9.12

10. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.

11. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.

12. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING

a. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS.

b. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS

b. CORRIDORS, EXIT ENCLOSURES AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
c. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR

BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.

d. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1 IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
e. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1008.1.6 FOR EXIT DISCHARGE DOORWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR

13. THE EMERGENCY POWER SYSTEM SHALL PROVIDE POWER FOR A DURATION OF NOT LESS THAN 90 MINUTES AND SHALL CONSIST OF STORAGE BATTERIES, UNIT EQUIPMENT OR AN ON-SITE GENERATOR. THE INSTALLATION OF THE EMERGENCY POWER SYSTEM SHALL BE IN ACCORDANCE WITH SECTION 2702.

14. EMERGENCY LIGHTING FACILITIES SHALL BE ARRANGED TO PROVIDE INITIAL ILLUMINATION THAT IS AT LEAST AN AVERAGE OF 1 FOOT-CANDLE (11 LUX) AND A MINIMUM AT ANY POINT OF 0.1 FOOT-CANDLE (1 LUX) MEASURED ALONG THE PATH OF EGRESS AT FLOOR LEVEL. ILLUMINATION LEVELS SHALL BE PERMITTED TO DECLINE TO 0.6 FOOT-CANDLE (6 LUX) AVERAGE AND A MINIMUM AT ANY POINT OF .06 FOOT-CANDLE (0.6 LUX) AT THE END OF THE EMERGENCY LIGHTING TIME DURATION. A MAXIMUM-TO-MINIMUM ILLUMINATION UNIFORMITY RATION OF 40 TO 1 SHALL NOT BE EXCEEDED.

15. THE EXIT SIGNS SHALL ALSO BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM PROVIDED FROM STORAGE BATTERIES UNIT EQUIPMENT OR AN ON-SITE GENERATOR SET, AND THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE ELECTRICAL CODE. FOR HIGH RISE BUILDINGS, SEE SECTION 403, 1003.2.8.5.

P. SECURITY NOTES:

MORE EXITS.

1. WOOD FLUSH-TYPE DOORS SHALL BE 1-3/4" THICK MINIMUM WITH SOLID CORE CONSTRUCTION. 91.6709.1 - DOOR STOPS OF IN-SWINGING DOORS SHALL BE OF ONE-PIECE CONSTRUCTION WITH THE JAMB OR JOINED BY RABBET TO THE JAMB.

2. ALL PIN-TYPE DOOR HINGES ACCESSIBLE FROM OUTSIDE SHALL HAVE NON-REMOVEABLE HINGE PINS. HINGES SHALL HAVE MIN. 1/4" DIA. STEEL JAMB STUF WITH 1/4" MIN. PROTECTION. THE STRIKE PLATE FOR LATCHES AND HOLDING DEVICE FOR PROJECTING DEAD BOLTS IN WOOD CONSTRUCTION SHALL BE SECURED TO THE JAMB AND THE WALL FRAMING WITH SCREWS NO LESS THAN 2-1/2" LONG.

3. PROVIDE DEAD BOLTS WITH HARDENED INSERTS; DEADLOCKING LATCH WITH KEY-OPERATED LOCKS ON EXTERIOR. DOORS MUST BE OPERABLE FROM THE INSIDE WITHOUT A KEY, SPECIAL KNOWLEDGE, OR SPECIAL EFFORT.

4. STRAIGHT DEAD BOLTS SHALL HAVE A MIN. THROW OF 1" AND AN EMBEDMENT OF NOT LESS THAN 5/8", AND A HOOK-SHAPED OR AN EXPANDING-LUG DEADBOLT SHALL HAVE A MINIMUM THROW OF 3/4".

5. WOOD PANEL TYPE DOORS MUST HAVE PANELS AT LEAST 9/16 IN. THK. WITH SHAPED PORTIONS NOT LESS THAN 1/4 IN. THK. AND INDIVIDUAL PANELS MUST BE NO MORE THAN 300 SQ. IN. IN AREA. MULLIONS SHALL BE CONSIDERED A PART OF ADJACENT PANELS EXCEPT MULLIONS NOT OVER 18" LONG MAY HAVE AN OVERALL WIDTH OF NOT LESS THAN 2 INCHES. STILES AND RAILS SHALL BE OF SOLID LUMBER IN THICKNESS WITH OVERALL DIMENSIONS OF NOT LESS THAN 1-3/8" AND 3" IN WIDTH.

6. SLIDING DOORS SHALL BE PROVIDED WITH A DEVICE IN THE UPPER CHANNEL OF THE MOVING PANEL TO PROHIBIT RAISING AND REMOVING OF THE MOVING PANEL FROM TRACK WHILE IN THE CLOSED POSITION.

7. SLIDING GLASS DOORS PANELS SHALL BE CLOSED AND LOCKED WHEN SUBJECTED TO THE TESTS SPECIFIED IN SEC. 6717.1.

8. GLAZED OPENINGS WITHIN 40" OF THE REQUIRED LOCKING DEVICE OF THE DOOR, WHEN THE DOOR IS IN THE CLOSED AND LOCKED POSITION AND WHEN THE DOOR IS OPENABLE FROM THE INSIDE WITHOUT THE USE OF KEY, SHALL BE FULLY TEMPERED GLASS PER SECTION 2406, OR APPROVED BURGLARY RESISTANT MATERIAL, OR SHALL BE PROTECTED BY METAL BARS, SCREENS OR GRILLS HAVING A MAXIMUM OPENING OF 2". THE PROVISIONS OF THIS SECTION SHALL NOT APPLY TO SLIDE GLASS DOORS WHICH CONFORM TO THE PROVISIONS OF SECTION 6710 OR TO VIEW PORTS OR WINDOWS WHICH DO NOT EXCEED 2" IN THEIR GREATEST DIMENSIONS.

9. OTHER OPENABLE WINDOWS SHALL BE PROVIDED WITH SUBSTANTIAL LOCKING DEVICES. IN GROUP B, F, M, AND S OCCUPANCIES, SUCH DEVICES SHALL BE GLIDE BARS, BOLTS, CROSS-BARS, AND/OR PADLOCKS WITH MINIMUM 9/32" HARDENED STEEL SHACKLES AND BOLTED, HARDENED STEELS HASPS.

10. ANY RELEASE FOR METAL BARS, GRILLS, GRATES, OR SIMILAR DEVICES CONSTRUCTED TO PRECLUDE HUMAN ENTRY THAT ARE INSTALLED SHALL BE LOCATED ON THE INSIDE OF THE ADJACENT ROOM AND AT LEAST 24 INCHES FROM THE CLOSEST OPENING THROUGH SUCH METAL BARS, GRILLS, GRATES OR SIMILAR DEVICES THAT EXCEEDS TWO INCHES IN ANY DIMENSION.

11. ALL OTHER OPENINGS OTHER THAN DOORS OR GLAZED OPENINGS MUST BE PROTECTED BY METAL BARS OR GRILLES WITH OPENINGS OF NOT LESS THAN 6 INCHES IN ONE DIMENSION.

L. TELEPHONE, DATA, CABLE & ELECTRICAL NOTES:

1. CONTRACTOR SHALL OBTAIN A SIGNED PLAN FROM THE POWER COMPANY WHICH APPROVES SIZES, LOCATIONS, AND SPECIFIC CLEARANCES OF MAIN SERVICE AND PANEL, ANY TRANSFORMERS, U.G. LINES, NEW POLES, OVERHEAD LINES, AND ANY OTHER RELATED ELECTRICAL INFORMATION OVER WHICH THE POWER COMPANY HAS AUTHORITY. CONTRACTOR SHALL SUBMIT APPROVED PLAN TO ARCHITECT FOR REVIEW PRIOR TO START OF CONSTRUCTION.

2. EXCEPT AS PROVIDED IN THE CONSTRUCTION DOCUMENTS, CONTRACTOR SHALL DESIGN, PREPARE NECESSARY PLANS, SCHEDULES, AND CALCULATIONS, HAVE PLANS CHECKED AND OBTAIN BUILDING PERMITS FOR ALL ELECTRICAL SYSTEMS AND EQUIPMENT.

3. UNLESS OTHERWISE NOTED, ALL CONDUITS SHALL BE CONCEALED IN STRUCTURE, ATTIC SPACES OR UNDERGROUND. ANY EXCEPTIONS ARE TO BE REVIEWED WITH AND CONFIRMED IN WRITING TO THE ARCHITECT.

4. CONTRACTOR TO VERIFY THAT ANY EXISTING SERVICE, METER, MAIN, PANEL, CONDUITS AND WIRING TO REMAIN ARE ADEQUATE. ADVISE OWNER PRIOR TO FINALIZING CONTRACT OF ANY CHANGES REQUIRED.

5. IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL PANEL, CAPACITY, BREAKERS, CIRCUITS, ETC., AS REQUIRED FOR NEW ELECTRICAL LOADS, AND SHALL VERIFY LOCATION AND SCOPE OF NEW OR EXPANDED SERVICE WITH THE OWNER AND ARCHITECT. CONTRACTOR SHALL CONFIRM ALL ELECTRICAL LOADS AND REQUIREMENTS FOR EXISTING AND NEW APPLIANCES, HEATING AND AIR CONDITIONING SYSTEMS AND OTHER ELECTRICAL EQUIPMENT AND FIXTURES PRIOR TO FINALIZING CONTRACT.

6. CONTRACTOR TO ROUGH-IN BOXES AND HOUSINGS PER PLAN FOR ALL OUTLETS, SWITCHES, FIXTURES, TELEPHONE, T.V., ETC. FOR CLIENT AND ARCHITECT WALKTHROUGH TO CONFIRM FINAL LOCATIONS AND LAYOUT. THIS SHOULD BE ACCOMPLISHED PRIOR TO PULLING ANY CONDUIT OR WIRE.

7. CONTRACTOR TO VERIFY CLEARANCES FOR ALL RECESSED FIXTURES AND ADVISE ARCHITECT OF ANY CONFLICTS PRIOR TO

8. ALL RECESSED FIXTURE TRIMS SHALL BE GASKETED AND TIGHT FITTING TO PREVENT LIGHT LEAKS.

9. VARIABLE SPEED SWITCHES FOR FANS OR ELECTRIC MOTORS SHALL BE CERTIFIED AND RATED FOR MOTOR CAPACITIES.

10. CONTRACTOR SHALL PROVIDE TITLE 24, FORM 5, IF REQUIRED.

11. LIGHT CONTROLS SHALL BE 3'-10" TO CENTER ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE

12. ALL WALL DUPLEX RECEPTACLES, TELEPHONE, T.V. AND OTHER OUTLETS SHALL BE MOUNTED HORIZONTALLY 15" TO BOTTOM OF OUTLET ABOVE FINISHED FLOOR, EXCEPT AT COUNTERS AND WHERE OTHERWISE NOTED.

13. GROUND FAULT INTERRUPTER REQUIRED FOR ALL EXTERIOR OUTLETS, BATHROOMS, TEMPORARY PANELS AND OTHER WET AREAS REQUIRED BY CODE.

14. UNLESS NOTED OTHERWISE, PRE-WIRING FOR T.V. AND TELEPHONE SHALL BE DONE IN CONDUITS WHERE NOT ACCESSIBLE IN ATTIC OR CRAWL SPACES. FOR TELEPHONES, UNLESS NOTED OTHERWISE, USE NO LESS THAN THREE PAIR WIRE TO EACH TELEPHONE JACK LOCATION WITH HOME RUNS TO MAIN SERVICE, AND CONFIRM ANY SPECIAL WIRING REQUIREMENTS OR SPECIFICATIONS WITH OWNER AND ARCHITECT PRIOR TO ORDERING WIRE.

15. ALL LIGHT SWITCHES TO BE PER ELECTRICAL PLANS.

16. CONTRACTOR TO PROVIDE ELECTRICAL OUTLETS AS REQUIRED BY CODE AND FOR ALL BUILT IN APPLIANCES WHETHER SHOWN ON PLANS OR NOT.

17. ALL ELECTRICAL CONDUITS TO BE CONCEALED. NO ELECTRICAL WIRING, CONDUITS OR ANY OTHER ITEMS OTHER THAN LIGHT FIXTURES AND SWITCHES SHALL BE EXPOSED OR SURFACE MOUNTED.

ALSO, SEE ENERGY/INSULATION NOTES.

M. SPECIAL GLAZING CONDITIONS AND MISC. NOTES:

1. ALL GLAZING HEAD JAMB AND SILL DETAILS MUST BE CLOSELY COORDINATED WITH GLAZING SUBCONTRACTOR AND ARCHITECT PREVIOUS TO INSTALLATION. ALL METAL HEAD JAMB AND SILL CHANNELS ARE TO BE HIDDEN WHENEVER POSSIBLE WITH SPECIFIED FINISH MATERIAL OF ADJACENT WALL ETC.

2. PIPE SYSTEMS MUST HAVE CLEAN OUT ACCESS AT 1)EVERY HORIZONTAL BEND AND 2)EVERY 50'.

N. BUILDING DEPARTMENT NOTES:

1. THE CONSTRUCTION SHALL NOT RESTRICT A FIVE-FOOT CLEAR AND UNOBSTRUCTED ACCESS TO ANY WATER OR POWER DISTRIBUTION FACILITIES (POWER POLES, PULL-BOXES, TRANSFORMERS, VAULTS, PUMPS, VALVES, METERS, APPURTEANCES, ETC) OR TO THE LOCATION OF THE HOOK-UP. THE CONSTRUCTION SHALL NOT BE WITHIN TEN FEET OF ANY POWER LINES - WHETHER OR NOT THE LINES ARE LOCATED ON THE PROPERTY. FAILURE TO COMPLY MAY CAUSE CONSTRUCTION DELAYS AND/OR ADDITIONAL EXPENSES.

2. PLUMBING FIXTURES ARE REQUIRED TO BE CONNECTED TO A SANITARY SEWER OR TO AN APPROVED SEWAGE DISPOSAL SYSTEM.

3. "AN APPROVED SEISMIC GAS SHUTOFF VALVE WILL BE INSTALLED ON THE FUEL GAS LINE ON THE DOWN STREAM SIDE OF THE UTILITY METER AND BE RIGIDLY CONNECTED TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING." (PER ORDINANCE 171, 874-FOR WORK OVER \$10,000.)

- 4. A) DRAFT STOPS MUST BE INSTALLED IN WOOD FRAME FLOOR CONSTRUCTION CONTAINING CONCEALED SPACE. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (1000) SQUARE FEET.
 B) DRAFT STOPS MUST BE INSTALLED IN THE ATTIC (MANSARDS) (OVERHANGS) (FALSE FRONTS SET OUT FROM WALLS) (SIMILAR CONCEALED SPACES) FORMED BY COMBUSTIBLE CONSTRUCTION. SUCH DRAFT STOPS MUST BE INSTALLED SO THAT THE AREA OF THE CONCEALED SPACE DOES NOT EXCEED (3000) SQUARE FEET.
- C) DRAFT STOPPING MATERIALS MUST NOT BE LESS THAN 1/2" GYP. BOARD, 3/8" TYPE 2-M PARTICLE BOARD OR OTHER MATERIALS APPROVED BY THE BUILDING DEPARTMENT. DRAFT STOPPING MUST BE ADEQUATELY SUPPORTED.

5. FIRE BLOCKING MUST BE PROVIDED IN ACCORDANCE WITH SECTION 718.2 AT THE FOLLOWING LOCATIONS:

A) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.

- A) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT THE CEILING AND FLOOR LEVELS.

 B) IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS, INCLUDING FURRED SPACES, AT 10-FOOT INTERVALS ALONG THE LENGTH OF THE WALL.
- C) AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS AND COVE CEILINGS.
- D) IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN AND BETWEEN STUDS ALONG AND IN LINE WITH THE RUN OF STAIRS IF THE WALL UNDER THE STAIRS IS UNFINISHED.
- E) IN OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS, FIREPLACES, AND SIMILAR OPENINGS WHICH AFFORD A PASSAGE FOR FIRE AT CEILING AND FLOOR LEVELS, WITH NONCOMBUSTIBLE MATERIALS.

6. AN APPROVED FIRE ALARM SYSTEM INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THIS CODE AND NFPA 72 SHALL BE PROVIDED IN NEW BUILDINGS AND STRUCTURES IN ACCORDANCE WITH SECTIONS 907.2.23 AND PROVIDE OCCUPANT NOTIFICATION IN ACCORDANCE WITH SECTION 907.5.

7. EVERY SPACE INTENDED FOR HUMAN OCCUPANCY SHALL BE PROVIDED WITH NATURAL LIGHT BY MEANS OF EXTERIOR GLAZED OPENINGS IN ACCORDANCE WITH SECTION 1205.2 OR SHALL BE PROVIDED WITH ARTIFICIAL LIGHT THAT IS ADEQUATE TO PROVIDE AN AVERAGE OF ILLUMINATION OF 10 FOOT-CANDLES OVER THE AREA OF THE ROOM AT A HEIGHT OF 30" ABOVE THE FLOOR LEVEL.

K. MECHANICAL, SHEET METAL:

1. ALL SHEET METAL WORK SHALL BE IN ACCORDANCE WITH SMACNA MANUAL STANDARDS AND LOCAL CODES

2. NOT USED.

3. NOT USED.

4. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A LIST OF THE HEATING, COOLING, VENTILATING, WATER HEATER AND LIGHTING SYSTEMS AND CONSERVATION OR SOLAR DEVICES INSTALLED IN THE BUILDING AND INSTRUCTIONS ON HOW TO USE THEM EFFICIENTLY.

5. FURNISH COMPLETE MAINTENANCE INFORMATION. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY STATED AND INCORPORATED ON A READILY ACCESSIBLE LABEL. LABEL SHALL BE AFFIXED TO ALL EQUIPMENT REQUIRING PREVENTIVE MAINTENANCE, AND A COPY OF THE MAINTENANCE INSTRUCTION SHALL BE PROVIDED FOR THE OWNER'S USE. CONTRACTOR TO PROVIDE OWNER COMPLETE MAINTENANCE INSTRUCTIONS, I.E.: BELT REPLACEMENT, OIL AND LUBRICATING ALONG WITH INSTALLER'S NAME, ADDRESS

6. CONTRACTOR TO THOROUGHLY CLEAN ALL PORTIONS OF THEIR WORK, REMOVE ALL DEBRIS AND LEAVE INSTALLATION IN PERFECT CONDITION READY FOR USE.

7. SEER RATING AND HEATING COMBUSTION EFFICIENCY RATING OF EACH HVAC UNIT SHALL COMPLY WITH STATE REQUIREMENTS.

8. SPACE CONDITIONING EQUIPMENT SHALL HAVE A RATED CAPACITY NOT TO EXCEED THE DESIGN HEAT LOAD BY MORE THAN 30%.

9. ALL EQUIPMENT SHALL BE C.E.C. CERTIFIED.

10. ALL FURNACES, CONDENSERS, FANS OR OTHER NOISE-PRODUCING EQUIPMENT TO BE INSTALLED INSIDE OR ON THE BUILDING STRUCTURE SHALL BE MOUNTED AND INSULATED SO AS TO MINIMIZE SOUND TRANSMISSION TO USABLE AREAS. HANG ALL EQUIPMENT LOCATED IN ATTIC AREAS FROM ROOF STRUCTURE (DO NOT INSTALL ON OR TOUCH CEILING STRUCTURE) AND USE RIBBED NEOPRENE PADS, SOUND ISOLATORS, SPRING HANGERS AND/OR EQUIVALENT VIBRATION REDUCING DEVICES TO ISOLATE EQUIPMENT FROM STRUCTURE. WHERE ADDITIONAL SOUND-PROOFING IS REQUIRED IN ATTIC AREAS, INSTALL SOUND INSULATED PARTITIONS AROUND EQUIPMENT.

11. CONDENSER REFRIGERANT PIPING IN THE STRUCTURE SHALL BE INSTALLED SO AS NOT TO TOUCH STRUCTURE, FRAMING OR WALL SURFACES. INSTALL FOAM RUBBER CUSHIONS AT PENETRATIONS TO SEPARATE PIPING FROM STRUCTURE.

12. MAIN SUPPLY AIR DUCTS SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO FURNACES OR FAN COILS.

13. COMBUSTION AIR SHALL BE PROVIDED PER CODE. ADVISE ARCHITECT OF ANY VISIBLE OR EXPOSED PORTIONS OF COMBUSTION AIR DUCTING OR VENTING PRIOR TO ROUGH WORK.

14. DUCT WORK CONSTRUCTION: ALL DUCT WORK AND PLENUMS TO BE MADE OF GALVANIZED SHEET STEEL IN ACCORDANCE WITH LATEST SMACNA STANDARDS AND APPLICABLE CODES. CONTRACTOR SHALL SIZE DUCT WORK FOR S.P. NOT TO EXCEED 0.1" PER 100' LENGTH FOR A GIVEN. DUCTS MAY BE RECTANGULAR OR ROUND.

15. IF FLEXIBLE ROUND DUCTWORK IS PROPOSED, PLEASE CONFIRM IN WRITING WITH ARCHITECT AND OWNER PRIOR TO FINALIZING CONTRACT.

16. UNLESS NOTED OTHERWISE, DUCTS SHALL BE CONSTRUCTED, INSTALLED AND INSULATED PER CURRENT CMC.

17. DUCT INSTALLATION: FOR THERMAL INSULATION, INSULATE ALL SUPPLY AND RETURN AIR DUCT WORK AND PLENUM WITH 2" THICK FIBERGLASS INSULATION WRAPPED AROUND WITH 2" OVERLAP AND WIRED ON #18 GALVANIZED WIRE @ 12" O.C. NRC RATING SHALL BE AT LEAST 0.80 AT FREQUENCIES ABOVE 1000. ALL DUCTS SHALL HAVE JOINTS AND SEAMS SEALED. FOR SOUND INSULATION, INSULATE INTERIOR OF SUPPLY AND RETURN AIR PLENUMS WITH MIN. 1" THICK SOUND-ABSORBING INSULATION TO REDUCE NOISE. INSTALL SOUND TRAPS IN PLENUM AND INSULATE BLOWER COMPARTMENT WHERE RETURN AIR REGISTERS ARE IN CLOSE PROXIMITY TO UNITS.

18. EXPOSED OR ROOF-MOUNTED DUCT WORK SHALL BE LINED WITH INSULATION ON THE INSIDE SURFACES, OVERSIZED ACCORDINGLY, AND SHALL BE WATER-PROOFED PER SPECIFICATIONS APPROVED BY ARCHITECT.

19. INSULATION LINING MUST BE APPROVED BY THE BUILDING DEPARTMENT AND SHALL MEET OR EXCEED NFPA STANDARDS.

20. NO STAMPED GRILLS WILL BE PERMITTED FOR REGISTERS OR DIFFUSERS. ALL DIFFUSERS AND REGISTERS SHALL BE MANUALLY ADJUSTABLE, WITH DOUBLE DEFLECTION AND OPPOSED BLADE DAMPERS, UNLESS NOTED OTHERWISE. VERIFY SELECTION AND FINISH WITH ARCHITECT

21. SUPPLY REGISTERS: SEE MECHANICAL DRAWINGS.

22. RETURN REGISTERS: SEE MECHANICAL DRAWINGS.

23. ALL SUPPLY AND RETURN REGISTERS OR DIFFUSERS SHALL BE SELECTED FOR A NOISE LEVEL NOT TO EXCEED 20 N.C.

24. ALL DUCT INTERIORS BEHIND SUPPLY AND RETURN REGISTERS WHICH ARE VISIBLE SHALL BE SPRAYED MATTE BLACK PRIOR TO INSTALLING REGISTERS.

25. PROVIDE PROGRAMMABLE "HONEYWELL" OR EQUAL ROOM T-STATS WITH WI-FI CAPABILITIES (FOR FAN COIL UNITS). JOHNSON CONTROL MODEL A19" OR EQUAL FOR EXHAUST FANS IN STORAGE AND ELECTRICAL ROOM. THERMOSTAT SELECTION SHALL BE CONFIRMED WITH ARCHITECT PRIOR TO FINALIZING CONSTRUCTION CONTRACT.

26. CONTROLS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 10 DEGREES BETWEEN FULL HEATING AND

27. ALL BATHROOM EXHAUST FANS, RANGE VENTS AND BUILT-IN OVENS SHALL BE VENTED TO THE OUTSIDE. CONFIRM ALL VENT LOCATIONS WITH ARCHITECT PRIOR TO DUCTING.

28. SEE ENERGY SECTION FOR ADDITIONAL INFORMATION REGARDING THERMOSTATS. INSULATION, ETC.

29. HEATER SHALL BE CAPABLE OF MAINTAINING A MINIMUM ROOM TEMPERATURE OF 68°F AT A POINT OF 3 FEET ABOVE THE FLOOR AND 2 FEET FROM THE EXTERIOR WALLS IN ALL HABITABLE ROOMS AT THE DESIGN TEMPERATURE. (R303.8)

L. SHORING:

1. SHORING AND/OR OTHER MEANS OF SUPPORT TO BE APPROVED BY PROJECT GEOTECHNICAL AND STRUCTURAL CONSULTANT.

2. ALL REQUIRED SHORING SHALL BE INSPECTED AND APPROVED BY THE DESIGN PROFESSIONALS PRIOR TO COMMENCEMENT OF PROJECT CONSTRUCTION.

3. SUBMITTAL OF COPY OF VALID CAL-OSHA PERMIT IS REQUIRED PRIOR TO PERMIT ISSUANCE.

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2. PRIMARY ACCESSIBLE PATH OF TRAVEL SHALL INCLUDE A PRIMARY ENTRANCE TO THE BUILDING OR FACILITY; TOILET AND BATHING FACILITIES SERVING THE AREA; DRINKING FOUNTAINS SERVING THE AREA; PUBLIC TELEPHONES SERVING THE AREA, AND SIGNS. §11B-202.4

3. WHEN THE ADJUSTED CONSTRUCTION COST IS LESS THAN OR EQUAL TO THE CURRENT VALUATION THRESHOLD (\$143,303), THE COST OF COMPLIANCE WITH THE PRIMARY ACCESSIBLE PATH OF TRAVEL REQUIREMENTS IS LIMITED TO 20 PERCENT OF THE ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS PRESENTLY PLANNED AND THOSE DURING THE PRECEDING THREE-YEAR PERIOD. §11B-202.4

4. ADJUSTED CONSTRUCTION COST OF ALTERATIONS, STRUCTURAL REPAIRS OR ADDITIONS DOES NOT INCLUDE THE COST OF ALTERATIONS TO PATH OF TRAVEL ELEMENTS. §11B-202.4 \

5. IN CHOOSING WHICH ACCESSIBLE ELEMENTS TO PROVIDE, PRIORITY SHOULD BE GIVEN TO THOSE ELEMENTS THAT WILL PROVIDE THE GREATEST ACCESS IN THE FOLLOWING ORDER: (1) AN ACCESSIBLE ENTRANCE; (2) AN ACCESSIBLE ROUTE TO THE ALTERED AREA; (3) AT LEAST ONE ACCESSIBLE RESTROOM FOR EACH SEX;(4) ACCESSIBLE TELEPHONES; (5) ACCESSIBLE DRINKING FOUNTAINS; AND (6) WHEN POSSIBLE, ADDITIONAL ACCESSIBLE ELEMENTS SUCH AS PARKING, STORAGE AND ALARMS. §11B-202.4

6. ALTERATIONS TO A QUALIFIED HISTORIC BUILDING OR FACILITY SHALL COMPLY WITH CHAPTER 11B UNLESS IT WILL THREATEN OR DESTROY THE HISTORICAL SIGNIFICANCE OR CHARACTER-DEFINING FEATURES OF THE BUILDING OR PROPERTY. IN THOSE CASES, ALTERNATIVE PROVISIONS SHALL BE APPLIED ON AN ITEM-BY-ITEM OR CASE-BY-CASE BASIS WITH SUFFICIENT WRITTEN DOCUMENTATION. §11B-202.5, SHBC 8-602

7. PUBLIC ACCOMMODATIONS SHALL MAINTAIN IN OPERABLE WORKING CONDITION THOSE FEATURES OF FACILITIES AND EQUIPMENT THAT ARE REQUIRED TO BE ACCESSIBLE TO AND USEABLE BY PERSONS WITH DISABILITIES. ISOLATED OR TEMPORARY INTERRUPTIONS IN SERVICE OR ACCESSIBILITY DUE TO MAINTENANCE OR REPAIRS SHALL BE PERMITTED. §11B-108

B. BUILDING

1. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM, AND SLIP RESISTANT. §11B-302.1 2. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, OR LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE ½ INCH MAXIMUM. §11B-302.2, FIGURE 11B-302.2

3. VERTICAL CHANGES IN LEVEL FOR FLOOR OR GROUND SURFACES MAY BE ¼ INCH HIGH MAXIMUM AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL GREATER THAN ¼ INCH AND NOT EXCEEDING ½ INCH IN HEIGHT SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. §11B-303, FIGURES 11B-303.2 & 11B-303.3

4. CHANGES IN LEVEL GREATER THAN ½ INCH IN HEIGHT SHALL BE RAMPED AND SHALL COMPLY WITH THE REQUIREMENTS OF 11B-405 RAMPS OR 11B-406 CURB RAMPS AS APPLICABLE. §11B-303

5. ABRUPT CHANGES IN LEVEL EXCEEDING 4 INCHES IN A VERTICAL DIMENSION BETWEEN WALKS, SIDEWALKS OR OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT LEAST 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE OR BY GUARDS OR HANDRAILS WITH A GUIDE RAIL CENTERED 2 INCHES MINIMUM AND 4 INCHES MAXIMUM ABOVE THE SURFACE OF THE WALK OR SIDEWALK. THESE REQUIREMENTS DO NOT APPLY BETWEEN A WALK OR SIDEWALK AND AN ADJACENT STREET OR DRIVEWAY. §11B-303.5

6. CIRCULAR TURNING SPACES SHALL BE A SPACE OF 60 INCHES DIAMETER MINIMUM AND MAY INCLUDE KNEE AND TOE CLEARANCE COMPLYING WITH 11B-306 KNEE AND TOE CLEARANCE. §11B-304.3.1

7. T-SHAPED TURNING SPACES SHALL BE A T-SHAPED SPACE WITHIN A 60 INCH SQUARE MINIMUM WITH ARMS AND BASE 36 INCHES WIDE MINIMUM. EACH ARM OF THE T SHALL BE CLEAR OF OBSTRUCTIONS 12 INCHES MINIMUM IN EACH DIRECTION AND THE BASE SHALL BE CLEAR OF OBSTRUCTIONS 24 INCHES MINIMUM. §11B-304.3.2, FIGURE 11B-304.3.2

8. FOR LAVATORIES AND BUILT-IN DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, TOE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH AND 9 INCHES IN HEIGHT ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF 19 INCHES MINIMUM. §11B-306.2.1

9. TOE CLEARANCE SHALL EXTEND 19 INCHES MAXIMUM UNDER LAVATORIES FOR TOILET AND BATHING FACILITIES AND 25 INCHES MAXIMUM UNDER OTHER ELEMENTS. §11B-306.2.2

10. AT LAVATORIES IN TOILET AND BATHING FACILITIES, KNEE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH FOR A DEPTH OF 11 INCHES AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND AND FOR A DEPTH OF 8 INCHES AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND INCREASING TO 29 INCHES HIGH MINIMUM ABOVE THE FINISH FLOOR OR GROUND AT THE FRONT EDGE OF A COUNTER WITH A BUILT-IN LAVATORY OR AT THE FRONT EDGE OF A WALL-MOUNTED LAVATORY FIXTURE. §11B-306.3.3, FIGURE 11B-306.3(C)

11. AT DINING AND WORK SURFACES REQUIRED TO BE ACCESSIBLE, KNEE CLEARANCE SHALL BE PROVIDED THAT IS 30 INCHES IN WIDTH AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND FOR A DEPTH OF AT LEAST 19 INCHES. §11B-306.3

12. EXCEPT FOR HANDRAILS, OBJECTS WITH LEADING EDGES MORE THAN 27 INCHES AND LESS THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL PROTRUDE NO MORE THAN 4 INCHES HORIZONTALLY INTO THE CIRCULATION PATH. HANDRAILS MAY PROTRUDE 4½ INCHES MAXIMUM. §11B-307.2, FIGURE 11B-307.2

13. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PYLONS SHALL OVERHANG CIRCULATION PATHS NO MORE THAN 12 INCHES WHEN LOCATED FROM 27 TO 80 INCHES ABOVE THE FINISH FLOOR OR GROUND. §11B-307.3, FIGURE 11B-307.3(A)

14. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH REQUIRED FOR ACCESSIBLE ROUTES. §11B-307.5

15. LOWEST EDGE OF A SIGN OR OTHER OBSTRUCTION, WHEN MOUNTED BETWEEN POSTS OR PYLONS SEPARATED WITH A CLEAR DISTANCE GREATER THAN 12 INCHES, SHALL BE LESS THAN 27 INCHES OR MORE THAN 80 INCHES ABOVE THE FINISH FLOOR OR GROUND. §11B-307.3, FIGURE 11B-307.3(B)

16. VERTICAL CLEARANCE SHALL BE AT LEAST 80 INCHES HIGH ON CIRCULATION PATHS EXCEPT AT DOOR CLOSERS AND DOOR STOPS, WHICH MAY BE 78 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-307.4

17. GUARDRAILS OR OTHER BARRIERS WITH A LEADING EDGE LOCATED 27 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SHALL BE PROVIDED WHERE THE VERTICAL CLEARANCE ON CIRCULATION PATHS IS LESS THAN 80 INCHES HIGH. §11B-307.4, FIGURE 11B-307.4

18. ELECTRICAL CONTROLS AND SWITCHES INTENDED TO BE USED BY THE OCCUPANT OF A ROOM OR AREA TO CONTROL LIGHTING AND RECEPTACLE OUTLETS, APPLIANCES OR COOLING, HEATING AND VENTILATING EQUIPMENT SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. §11B-308.1.1

19. ELECTRICAL RECEPTACLE OUTLETS ON BRANCH CIRCUITS OF 30 AMPERES OR LESS AND COMMUNICATION SYSTEM RECEPTACLES SHALL BE LOCATED WITHIN ALLOWABLE REACH RANGES. LOW REACH SHALL BE MEASURED TO THE BOTTOM OF THE OUTLET BOX AND HIGH REACH SHALL BE MEASURED TO THE TOP OF THE OUTLET BOX. §11B-308.1.2

20. HIGH FORWARD REACH THAT IS UNOBSTRUCTED SHALL BE 48 INCHES MAXIMUM AND THE LOW FORWARD REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-308.2.1, FIGURE 11B-308.2.1

21. HIGH FORWARD REACH SHALL BE 48 INCHES MAXIMUM WHERE THE REACH DEPTH IS 20 INCHES OR LESS AND 44 INCHES MAXIMUM WHERE THE REACH DEPTH EXCEEDS 20 INCHES. HIGH FORWARD REACH SHALL NOT EXCEED 25 INCHES IN DEPTH. §11B-308.2.2, FIGURE 11B-308.2.2

22. HIGH SIDE REACH SHALL BE 48 INCHES MAXIMUM AND THE LOW SIDE REACH SHALL BE 15 INCHES MINIMUM ABOVE THE FINISH FLOOR WHERE THE SIDE REACH IS UNOBSTRUCTED OR THE DEPTH OF ANY OBSTRUCTION DOES

NOT EXCEED 10 INCHES. §11B-308.3.1, FIGURE 11B-308.3.1

23. HIGH SIDE REACH SHALL BE 46 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND WHERE THE HIGH SIDE REACH IS OVER AN OBSTRUCTION MORE THAN 10 INCHES BUT NOT MORE THAN 24 INCHES IN DEPTH. §11B-308.3.2, FIGURE 11B-308.3.2

24. OBSTRUCTIONS FOR HIGH SIDE REACH SHALL NOT EXCEED 34 INCHES IN HEIGHT AND 24 INCHES IN DEPTH, §11B-308.3.2, FIGURE 11B-308.3.2

25. OBSTRUCTED HIGH SIDE REACH FOR THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR. §11B-308.3.2

26. OBSTRUCTED HIGH SIDE REACH FOR THE OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS. §11B-308.3.2

27. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM. §11B-309.4

C. ACCESSIBLE ROUTES

1. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES AND ACCESSIBLE PASSENGER LOADING ZONES; PUBLIC STREETS AND SIDEWALKS; AND PUBLIC TRANSPORTATION STOPS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE. WHERE MORE THAN ONE ROUTE IS PROVIDED, ALL ROUTES MUST BE ACCESSIBLE. §11B-206.2.1 (SEE EXCEPTIONS)

2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES, ACCESSIBLE ELEMENTS, AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. §11B-206.2.2 (SEE EXCEPTION)

3. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT EACH STORY AND MEZZANINE IN MULTI-STORY BUILDINGS AND FACILITIES. §11B-206.2.3 (SEE EXCEPTIONS)

6. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY, INCLUDING MEZZANINES, WHICH ARE OTHERWISE CONNECTED BY A CIRCULATION PATH. §11B-206.2.4 (SEE EXCEPTIONS 1 THROUGH 7)

7. ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. WHERE CIRCULATION PATHS ARE INTERIOR, REQUIRED ACCESSIBLE ROUTES SHALL ALSO BE INTERIOR; AN ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES, EXCEPT AS PERMITTED BY CHAPTER 10. §11B-206.3

8. CURB RAMPS SHALL HAVE DETECTABLE WARNINGS THAT EXTEND 36 INCHES IN THE DIRECTION OF TRAVEL FOR THE FULL WIDTH OF THE RAMP RUN EXCLUDING ANY FLARED SIDES. §11B-247.1.2.2, §11B-705.1.2.2

9. ON PERPENDICULAR CURB RAMPS, DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 TO 8 INCHES FROM THE LINE AT THE FACE OF THE CURB MARKING THE TRANSITION BETWEEN THE CURB AND THE GUTTER, STREET OR HIGHWAY. §11B-247.1.2.2, §11B-705.1.2.2

10. ON PARALLEL CURB RAMPS, DETECTABLE WARNINGS SHALL BE PLACED ON THE TURNING SPACE AT THE FLUSH TRANSITION BETWEEN THE STREET AND SIDEWALK. §11B-247.1.2.2, §11B-705.1.2.2, FIGURE 11B-406.3.2

11. ISLANDS OR CUT-THROUGH MEDIANS 96 INCHES OR LONGER IN LENGTH IN THE DIRECTION OF PEDESTRIAN TRAVEL SHALL HAVE DETECTABLE WARNINGS THAT ARE 36 INCHES MINIMUM IN DEPTH EXTENDING THE FULL WIDTH OF THE PEDESTRIAN PATH OR CUT-THROUGH, PLACED AT THE EDGES OF THE PEDESTRIAN ISLAND OR CUT-THROUGH MEDIAN, AND SEPARATED BY 24 INCHES MINIMUM OF WALKING SURFACE WITHOUT DETECTABLE WARNINGS. §11B-247.1.2.3, 811B-705.1.2.3

12. WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE SEPARATED BY DETECTABLE WARNINGS, CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS. §202, §11B-247.1.2.5, §11B-705.1.2.5

13. DETECTABLE WARNINGS PROVIDED TO SEPARATE WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE 36 INCHES IN WIDTH AND CONTINUOUS AT THE BOUNDARY BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS. §202, §11B-247.1.2.5, §11B-705.1.2.5

14. PROVIDE DETECTABLE WARNING DETAILS SHOWING COMPLIANCE WITH THE FOLLOWING:

A. DETECTABLE WARNING SURFACES SHALL VISUALLY CONTRAST LIGHT-ON-DARK OR

DARK-ON-LIGHT WITH ADJACENT WALKING SURFACES OR BE SEPARATED FROM ADJACENT

SURFACES BY A 1 INCH WIDE BLACK STRIP. MATERIAL USED TO PROVIDE CONTRAST SHALL BE

AN INTEGRAL PART OF THE SURFACE. §11B-705.1.1.3

B. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES MUST ENSURE CONSISTENCY AND UNIFORMITY FOR SHAPE, COLOR FASTNESS, CONFORMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE, AND THAT ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY (<10%) FOR AT LEAST FIVE YEARS. §12-11B.209, §12-11B-210

15. WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE SEPARATED BY DETECTABLE WARNINGS, CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS. §202, §11B-247.1.2.5, §11B-705.1.2.5

16. DETECTABLE WARNINGS PROVIDED TO SEPARATE WALKS THAT CROSS OR ADJOIN A ROUTE PROVIDED FOR VEHICULAR TRAFFIC, SUCH AS IN A STREET, DRIVEWAY, OR PARKING FACILITY, SHALL BE 36 INCHES IN WIDTH AND CONTINUOUS AT THE BOUNDARY BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS. §202, §11B-247.1.2.5, §11B-705.1.2.5

18. PROVIDE DETECTABLE WARNING DETAILS SHOWING COMPLIANCE WITH THE FOLLOWING:
A. TRUNCATED DOMES IN A DETECTABLE WARNING SURFACE SHALL HAVE A BASE DIAMETER
OF 0.9 TO 0.92 INCHES, A TOP DIAMETER OF 0.45 TO 0.47 INCHES, AND A HEIGHT OF 0.18 TO 0.22
INCHES. §11B-705.1.1.1, FIGURE 11B-705.1

B. TRUNCATED DOMES PLACED IN A GRID PATTERN IN A DETECTABLE WARNING SURFACE SHALL HAVE A CENTER-TO-CENTER SPACING OF 2.3 TO 2.4 INCHES, AND A MINIMUM BASE-TO-BASE SPACING OF 0.65 INCHES, MEASURED BETWEEN THE MOST ADJACENT DOMES ON A SQUARE GRID. §11B-705.1.1.2, FIGURE 11B-705.1

C. DETECTABLE WARNING SURFACES SHALL VISUALLY CONTRAST LIGHT-ON-DARK OR DARK-ON-LIGHT WITH ADJACENT WALKING SURFACES OR BE SEPARATED FROM ADJACENT SURFACES BY A 1 INCH WIDE BLACK STRIP. MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE SURFACE. §11B-705.1.1.3

D. DETECTABLE WARNING SURFACES SHALL DIFFER FROM ADJOINING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT EXCEPT AT CURB RAMPS, ISLANDS OR CUT-THROUGH MEDIANS. §11B-705.1.1.4

E. DETECTABLE WARNING SURFACES SHALL BE YELLOW CONFORMING TO FS 33538 OF FEDERAL STANDARD 595C EXCEPT AT CURB RAMPS, ISLANDS OR CUT-THROUGH MEDIANS. §11B-705.1.1.5

F. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE APPROVED BY THE DIVISION OF THE STATE ARCHITECT. §11B-705.3

G. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES INSTALLED AFTER JANUARY 1, 2001, SHALL BE EVALUATED BY AN INDEPENDENT ENTITY, SELECTED BY THE DIVISION OF THE STATE ARCHITECT, TO CONFIRM COMPLIANCE WITH THE PRESCRIPTIVE AND PERFORMANCE STANDARDS OF TITLE 24. §12-CHAPTERS 12-A AND 12-11B

H. INDEPENDENT ENTITIES FOR TESTING OF DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE A NOT-FOR-PROFIT PRODUCT SAFETY TESTING AND CERTIFICATION ORGANIZATION, DEDICATED TO TESTING FOR PUBLIC SAFETY THAT OPERATES FOR THE TESTING, CERTIFICATION AND QUALITY ASSESSMENT OF PRODUCTS, SYSTEMS AND SERVICES. §12-11B.205, §12-11B.211

I. INDEPENDENT ENTITIES FOR TESTING OF DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES SHALL BE RECOGNIZED AS HAVING APPROPRIATE EXPERTISE IN DETERMINING WHETHER PRODUCTS COMPLY WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24. §12-11B.205, §12-11B.211

J. DETECTABLE WARNING PRODUCTS AND DIRECTIONAL SURFACES MUST ENSURE CONSISTENCY AND UNIFORMITY FOR SHAPE, COLOR FASTNESS, CONFORMATION, SOUND-ON-CANE ACOUSTIC QUALITY, RESILIENCE, AND THAT ATTACHMENT WILL NOT DEGRADE SIGNIFICANTLY (<10%) FOR AT LEAST FIVE YEARS. §12-11B.209, §12-11B-210

19. ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.4 ENTRANCES. ENTRA

19. ENTRANCES SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.4 ENTRANCES. ENTRANCE DOORS, DOORWAYS, AND GATES SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES AND SHALL BE ON AN ACCESSIBLE ROUTE COMPLYING WITH 11B-402 ACCESSIBLE ROUTES; (SEE EXCEPTIONS). §11B-206.4

20. ALL ENTRANCES AND EXTERIOR GROUND-FLOOR EXITS TO BUILDINGS AND FACILITIES SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES. §11B-206.4.1

21. WHERE DIRECT ACCESS IS PROVIDED FOR PEDESTRIANS FROM A PARKING STRUCTURE TO A BUILDING OR FACILITY ENTRANCE, EACH DIRECT ACCESS TO THE BUILDING OR FACILITY ENTRANCE SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES. §11B-206.4.2

22. DIRECT CONNECTIONS TO OTHER FACILITIES SHALL PROVIDE AN ACCESSIBLE ROUTE COMPLYING WITH 11B-404 DOORS, DOORWAYS, AND GATES FROM THE POINT OF CONNECTION TO BOARDING PLATFORMS AND ALL TRANSPORTATION SYSTEM ELEMENTS REQUIRED TO BE ACCESSIBLE. ANY ELEMENTS PROVIDED TO FACILITATE FUTURE DIRECT CONNECTIONS SHALL BE ON AN ACCESSIBLE ROUTE CONNECTING BOARDING PLATFORMS AND ALL TRANSPORTATION SYSTEM ELEMENTS REQUIRED TO BE ACCESSIBLE. §11B-206.4.4.2 (SEE EXCEPTION)

23. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A RUNNING SLOPE NOT STEEPER THAN 1:20 (5%), DOORWAYS, RAMPS, CURB RAMPS EXCLUDING THE FLARED SIDES, ELEVATORS, AND PLATFORM LIFTS. §11B-402.2

24. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20 (5%). THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48 (2.083%). §11B-403.3 25. EXCEPT AT TURNS OR PASSING SPACES, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MINIMUM, §11B-403.5.1

26. THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MINIMUM. §11B-403.5.1 EXCEPTION 2

27. THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MINIMUM. §11B-403.5.1 EXCEPTION 3

28. THE CLEAR WIDTH FOR AISLES SHALL BE 36 INCHES MINIMUM IF SERVING ELEMENTS ON ONLY ONE SIDE, AND 44 INCHES MINIMUM IF SERVING ELEMENTS ON BOTH SIDES. §11B-403.5.1 EXCEPTION 4

29. DOORS, DOORWAYS, AND GATES PROVIDING USER PASSAGE SHALL BE PROVIDED IN ACCORDANCE WITH 11B-206.5 DOORS, DOORWAYS, AND GATES. §11B-206.5
30. DOORS, DOORWAYS AND GATES THAT ARE PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES. §11B-404.1

31. REVOLVING DOORS, REVOLVING GATES, AND TURNSTILES SHALL NOT BE PART OF AN ACCESSIBLE ROUTE. §11B-402.2.1

32. AT LEAST ONE OF THE ACTIVE LEAVES OF DOORWAYS WITH TWO LEAVES SHALL COMPLY WITH 11B-404.2.3 CLEAR WIDTH AND 11B-404.2.4 MANEUVERING CLEARANCES. §11B-404.2.2

33. DOOR OPENINGS SHALL PROVIDE A CLEAR WIDTH OF 32 INCHES MINIMUM. CLEAR OPENINGS OF DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF THE DOOR AND THE STOP, WITH THE DOOR OPEN 90 DEGREES. OPENINGS MORE THAN 24 INCHES DEEP SHALL PROVIDE A CLEAR OPENING OF 36 INCHES MINIMUM. THERE SHALL BE NO PROJECTIONS INTO THE REQUIRED CLEAR OPENING WIDTH LOWER THAN 34 INCHES ABOVE THE FINISH FLOOR OR GROUND. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34 INCHES AND 80 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL NOT EXCEED 4 INCHES.

34. MINIMUM MANEUVERING CLEARANCES AT DOORS AND GATES SHALL COMPLY WITH 11B-404.2.4 MANEUVERING CLEARANCES. MANEUVERING CLEARANCES SHALL EXTEND THE FULL WIDTH OF THE DOORWAY AND THE REQUIRED LATCH SIDE OR HINGE SIDE CLEARANCE. §11B-404.2.4

35. SWINGING DOORS AND GATES SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.1. §11B-404.2.4.1

36. DOORWAYS LESS THAN 36 INCHES WIDE WITHOUT DOORS OR GATES, SLIDING DOORS, OR FOLDING DOORS SHALL HAVE MANEUVERING CLEARANCES COMPLYING WITH TABLE 11B-404.2.4.2. §11B-404.2.4.2

37. MANEUVERING CLEARANCES FOR FORWARD APPROACH SHALL BE PROVIDED WHEN ANY OBSTRUCTION WITHIN 18 INCHES OF THE LATCH SIDE AN INTERIOR DOORWAY, OR WITHIN 24 INCHES OF THE LATCH SIDE OF AN EXTERIOR DOORWAY, PROJECTS MORE THAN 8 INCHES BEYOND THE FACE OF THE DOOR, MEASURED PERPENDICULAR TO THE FACE OF THE DOOR OR GATE. §11B-404.2.4.3

38. THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE ½ INCH HIGH MAXIMUM. RAISED THRESHOLDS AND CHANGES IN LEVEL AT DOORWAYS SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES AND 11B-303 CHANGES IN LEVEL. §11B-404.2.5.

39. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH 11B-309.4 OPERATION. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. §11B-404.2.7

40. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS: §11B-404.2.9

A. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM.

B. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM.

C. REQUIRED FIRE DOORS: THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.

D. EXTERIOR HINGED DOORS: 5 POUNDS MAXIMUM.

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

42. PROVIDE RAMP DETAILS, INCLUDING SLOPE, LANDINGS, AND HANDRAILS.

43. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). §11B-405.2 44. CROSS SLOPE OF RAMP RUNS SHALL NOT BE STEEPER THAN 1:48 (2.083%). §11B-405.3

45. FLOOR OR GROUND SURFACES OF RAMP RUNS SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES. CHANGES IN LEVEL OTHER THAN THE RUNNING SLOPE AND CROSS SLOPE ARE NOT PERMITTED ON RAMP RUNS. §11B-405.4

46. THE CLEAR WIDTH OF A RAMP RUN SHALL BE 48 INCHES MINIMUM. §11B-405.5

47. THE RISE FOR ANY RAMP RUN SHALL BE 30 INCHES MAXIMUM. §11B-405.6

48. RAMPS SHALL HAVE LANDINGS AT THE TOP AND THE BOTTOM OF EACH RAMP RUN. §11B-405.7

49. LANDINGS SHALL COMPLY WITH 11B-302 FLOOR OR GROUND SURFACES. CHANGES IN LEVEL ARE NOT PERMITTED. §11B-405.7.1

50. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE WIDEST RAMP RUN LEADING TO THE LANDING. §11B-405.7.2

51. TOP LANDINGS SHALL BE 60 INCHES WIDE MINIMUM. §11B-405.7.2.1

52. THE LANDING CLEAR LENGTH SHALL BE 60 INCHES LONG MINIMUM. §11B-405.7.353. BOTTOM LANDINGS SHALL EXTEND 72 INCHES MINIMUM IN THE DIRECTION OF RAMP RUN.

54. RAMPS THAT CHANGE DIRECTION BETWEEN RUNS AT LANDINGS SHALL HAVE A CLEAR LANDING 60 INCHES MINIMUM BY 72 INCHES MINIMUM IN THE DIRECTION OF DOWNWARD TRAVEL FROM THE UPPER RAMP RUN. §11B-405.7.4

55. WHERE DOORWAYS ARE LOCATED ADJACENT TO A RAMP LANDING, MANEUVERING CLEARANCES REQUIRED BY 11B-404.2.4 AND 11B-404.3.2 SHALL BE PERMITTED TO OVERLAP THE REQUIRED LANDING AREA. DOORS, WHEN FULLY OPEN, SHALL NOT REDUCE THE REQUIRED RAMP LANDING WIDTH BY MORE THAN 3 INCHES. DOORS, IN ANY POSITION, SHALL NOT REDUCE THE MINIMUM DIMENSION OF THE RAMP LANDING TO LESS THAN 42 INCHES.

56. RAMP RUNS SHALL HAVE COMPLIANT HANDRAILS PER 11B-505 HANDRAILS. §11B-405.8
57. EDGE PROTECTION COMPLYING WITH 11B-405.9.2 CURB OR BARRIER SHALL BE PROVIDED ON EACH SIDE OF RAMP RUNS AND AT EACH SIDE OF RAMP LANDINGS. §11B-405.9 (SEE EXCEPTIONS)

58. A CURB, 2 INCHES HIGH MINIMUM, OR BARRIER SHALL BE PROVIDED THAT PREVENTS THE PASSAGE OF A 4 INCH DIAMETER SPHERE, WHERE ANY PORTION OF THE SPHERE IS WITHIN 4 INCHES OF THE FINISH FLOOR OR GROUND SURFACE. TO PREVENT WHEEL ENTRAPMENT, THE CURB OR BARRIER SHALL PROVIDE A CONTINUOUS AND UNINTERRUPTED BARRIER ALONG THE LENGTH OF THE RAMP. §11B-405.9.2

59. LANDINGS SUBJECT TO WET CONDITIONS SHALL BE DESIGNED TO PREVENT THE ACCUMULATION OF WATER. §11B-405.10

60. HANDRAILS SHALL BE PROVIDED ON BOTH SIDES OF STAIRS AND RAMPS. §11B-505.261. HANDRAILS SHALL BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH STAIR FLIGHT OR

RAMP RUN. INSIDE HANDRAILS ON SWITCHBACK OR DOGLEG STAIRS AND RAMPS SHALL BE

CONTINUOUS BETWEEN FLIGHTS OR RUNS. §11B-505.3
62. TOP OF GRIPPING SURFACES OF HANDRAILS SHALL BE 34 INCHES MINIMUM AND 38 INCHES MAXIMUM VERTICALLY ABOVE WALKING SURFACES, STAIR NOSINGS, AND RAMP SURFACES.
HANDRAILS SHALL BE AT A CONSISTENT HEIGHT ABOVE WALKING SURFACES, STAIR NOSINGS,

AND RAMP SURFACES. §11B-505.4

63. CLEARANCE BETWEEN HANDRAIL GRIPPING SURFACES AND ADJACENT SURFACES SHALL
BE 1½ INCHES MINIMUM. HANDRAILS MAY BE LOCATED IN A RECESS IF THE RECESS IS 3 INCHES

MAXIMUM DEEP AND 18 INCHES MINIMUM CLEAR ABOVE THE TOP OF THE HANDRAIL. §11B-505.5
64. HANDRAIL GRIPPING SURFACES SHALL BE CONTINUOUS ALONG THEIR LENGTH AND SHALL
NOT BE OBSTRUCTED ALONG THEIR TOPS OR SIDES. THE BOTTOMS OF HANDRAIL GRIPPING
SURFACES SHALL NOT BE OBSTRUCTED FOR MORE THAN 20 PERCENT OF THEIR LENGTH.
WHERE PROVIDED, HORIZONTAL PROJECTIONS SHALL OCCUR 1½ INCHES MINIMUM BELOW
THE BOTTOM OF THE HANDRAIL GRIPPING SURFACE. §11B-505.6

65. HANDRAIL GRIPPING SURFACES WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 11/4 INCHES MINIMUM AND 2 INCHES MAXIMUM. §11B-505.7.1

66. HANDRAIL GRIPPING SURFACES WITH A NON-CIRCULAR CROSS SECTION SHALL HAVE A PERIMETER DIMENSION OF 4 INCHES MINIMUM AND 61/4 INCHES MAXIMUM, AND A CROSS-SECTION DIMENSION OF 21/4 INCHES MAXIMUM. §11B-505.7.2

67. HANDRAIL GRIPPING SURFACES SHALL EXTEND BEYOND AND IN THE SAME DIRECTION OF STAIR FLIGHTS AND RAMP RUNS IN ACCORDANCE WITH SECTION 11B-505.10 HANDRAIL EXTENSIONS. §11B-505.10

68. RAMP HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT RAMP RUN. §11B-505.10.1

69. AT THE TOP OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING FOR 12 INCHES MINIMUM BEGINNING DIRECTLY ABOVE THE FIRST RISER NOSING. EXTENSIONS SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. §11B-505.10.2

AT THE BOTTOM OF A STAIR FLIGHT, HANDRAILS SHALL EXTEND AT THE SLOPE OF THE STAIR FLIGHT FOR A HORIZONTAL DISTANCE EQUAL TO ONE TREAD DEPTH BEYOND THE LAST RISER NOSING. SUCH EXTENSION SHALL CONTINUE WITH A HORIZONTAL EXTENSION OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT OR SHALL RETURN TO A WALL, GUARD, OR THE WALKING SURFACE. AT THE BOTTOM OF A STAIR FLIGHT, A HORIZONTAL EXTENSION OF A HANDRAIL SHALL BE 12 INCHES LONG MINIMUM AND A HEIGHT EQUAL TO THAT OF THE SLOPING PORTION OF THE HANDRAIL AS MEASURED ABOVE THE STAIR NOSINGS. EXTENSION SHALL RETURN TO A WALL, GUARD, OR THE LANDING SURFACE, OR SHALL BE CONTINUOUS TO THE HANDRAIL OF AN ADJACENT STAIR FLIGHT. §11B-505.10.3



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- 78. PERPENDICULAR RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). **§11B-406.2.1**
- 79. FOR PERPENDICULAR RAMPS, WHERE PROVIDED, CURB
- RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. **§11B-406.2**, **FIGURE 11B-406.2.2**
- 80. THE RUNNING SLOPE OF THE CURB RAMP SEGMENTS SHALL BE IN-LINE WITH THE DIRECTION OF SIDEWALK TRAVEL. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12 (8.33%). §11B-406.3.1, FIGURE 11B-406.3.2
- 81. A TURNING SPACE 48 INCHES MINIMUM BY 48 INCHES MINIMUM SHALL BE PROVIDED AT THE BOTTOM OF THE CURB RAMP. THE SLOPE OF THE TURNING SPACE IN ALL DIRECTIONS SHALL BE 1:48 MAXIMUM (2.083%). §11B-406.3.2
- 82. BLENDED TRANSITION RAMPS HALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:20 (5%). **§11B-406.4.1**
- 83. CURB RAMPS AND THE FLARED SIDES OF CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. §11B-406.5.1
- 84. THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES MINIMUM. §11B-406.5.2
- 85. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS (PARALLEL CURB RAMPS SHALL NOT BE REQUIRED TO COMPLY). THE LANDING CLEAR LENGTH SHALL BE 48 INCHES MINIMUM. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING ANY FLARED SIDES, OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTIONS SHALL BE 1:48 (2.083%) MAXIMUM. §11B-406.5.3
- 86. GRADE BREAKS AT THE TOP AND BOTTOM OF CURB RAMP RUNS SHALL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP RUN. GRADE BREAKS SHALL NOT BE PERMITTED ON THE SURFACE OF RAMP RUNS AND TURNING SPACES. SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH. §11B-406.5.6
- 87. THE CROSS SLOPE OF CURB RAMPS AND BLENDED TRANSITIONS SHALL BE 1:48 (2.083%) MAXIMUM. §11B-406.5.7
- 88. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE CURB RAMP SHALL NOT BE STEEPER THAN 1:20 (5%). THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL. §11B-406.5.8
- 89. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48 INCHES MINIMUM OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL CURB RAMPS PROVIDED AT MARKED CROSSINGS SHALL PROVIDE THE 48 INCHES MINIMUM CLEAR SPACE WITHIN THE MARKINGS. §11B-406.5.9
- 90. CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE ALONG THE TOP OF THE CURB RAMP AT THE LEVEL SURFACE OF THE TOP LANDING AND AT THE OUTSIDE EDGES OF THE FLARED SIDES. THE GROOVED BORDER SHALL CONSIST OF A SERIES OF GROOVES 1/4 INCH WIDE BY 1/4 INCH DEEP, AT 3/4 INCH ON CENTER; (SEE EXCEPTIONS). §11B-406.5.11
- 91. CURB RAMPS AND BLENDED TRANSITIONS SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH 11B-705 DETECTABLE WARNINGS. **§11B-406.5.12**
- 92. RAISED ISLANDS IN CROSSINGS SHALL BE CUT THROUGH LEVEL WITH THE STREET OR HAVE CURB RAMPS AT BOTH SIDES. THE CLEAR WIDTH OF THE ACCESSIBLE ROUTE AT ISLANDS SHALL BE 60 INCHES WIDE MINIMUM. WHERE CURB RAMPS ARE PROVIDED, THEY SHALL COMPLY WITH 11B-406 CURB RAMPS, BLENDED TRANSITIONS AND ISLANDS. LANDINGS COMPLYING WITH 11B-406.5.3 LANDINGS AND THE ACCESSIBLE ROUTE SHALL BE PERMITTED TO OVERLAP. ISLANDS SHALL HAVE DETECTABLE WARNINGS COMPLYING WITH 11B-705 DETECTABLE WARNINGS AND DETECTABLE DIRECTIONAL TEXTURE. §11B-406.6, FIGURE 11B-406.6

D. GENERAL SITE AND BUILDING ELEMENTS

- 1. WHERE PARKING SPACES ARE PROVIDED, ACCESSIBLE PARKING SPACES SHALL BE PROVIDED IN NUMBER AND KIND REQUIRED PER SECTION 11B-208 PARKING SPACES. §11B-208.1
- 2. PROVIDE () ACCESSIBLE PARKING SPACES AS REQUIRED BY TABLE 11B-208.2. **§11B-208.2** (SEE EXCEPTIONS)
- 3. PROVIDE ACCESSIBLE SPACES FOR EACH PARKING FACILITY (PARKING LOTS AND PARKING STRUCTURES). THE NUMBER OF PARKING SPACES REQUIRED TO BE ACCESSIBLE IS TO BE CALCULATED SEPARATELY FOR EACH PARKING FACILITY; THE REQUIRED NUMBER IS NOT BASED ON THE TOTAL NUMBER OF PARKING SPACES PROVIDED IN ALL OF THE PARKING FACILITIES PROVIDED ON SITE. §11B-208
- 6. ONE IN EVERY SIX OR FRACTION OF SIX PARKING SPACES REQUIRED BY SECTION 11B-208.2 MINIMUM NUMBER, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96 INCHES WIDE MINIMUM PLACED ON THE SIDE OPPOSITE THE DRIVER'S SIDE WHEN THE VEHICLE IS GOING FORWARD INTO THE PARKING SPACE AND SHALL BE DESIGNATED "VAN ACCESSIBLE". ALL SUCH SPACES MAY BE GROUPED ON ONE LEVEL OF A PARKING STRUCTURE. §11B-208.2.4, 11B-502, FIG 11B-502, 11B-502.3, & 11B-502.3.3
- 7. ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502 PARKING SPACES SERVING A PARTICULAR BUILDING OR FACILITY SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL FROM ADJACENT PARKING TO AN ACCESSIBLE ENTRANCE (AS NEAR AS PRACTICAL TO AN ACCESSIBLE ENTRANCE). §11B-208.3.1
- 8. IN BUILDINGS WITH MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING,
 ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502 PARKING SPACES SHALL BE
 DISPERSED AND LOCATED CLOSEST TO THE ACCESSIBLE ENTRANCES. §11B-208.3.1
- 9. IN PARKING FACILITIES THAT DO NOT SERVE A PARTICULAR BUILDING OR FACILITY,
 ACCESSIBLE PARKING SPACES COMPLYING WITH SECTION 11B-502 PARKING SPACES SHALL BE
 LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE PEDESTRIAN
 ENTRANCE OF THE PARKING FACILITY. §11B-208.3.1
- 10. DIMENSION MINIMUM 18 FOOT LONG CAR AND VAN ACCESSIBLE PARKING SPACE(S) AND ACCESS AISLE(S). §11B-502.2, FIGURES 11B-502.2 AND 11B-502.3
- 11. DIMENSION MINIMUM 9 FOOT WIDTH AT ACCESSIBLE CAR PARKING SPACE. **§11B-502.2**, **FIG. 11B-502.2 & FIG. 11B-502.3**
- 12. DIMENSION MINIMUM 12 FOOT WIDE ACCESSIBLE VAN PARKING SPACE WITH MINIMUM 5 FOOT WIDE ACCESS AISLE. VAN PARKING SPACES SHALL BE PERMITTED TO BE MINIMUM 9 FEET WIDE WHERE ACCESS AISLE IS 8 FOOT WIDE MINIMUM. §11B-502.2, FIGURES 11B-502.2 AND 11B-502.3
- 13. CAR AND VAN STALL ACCESS AISLE SHALL BE 5 FOOT WIDE MINIMUM AND SHALL ADJOIN AN ACCESSIBLE ROUTE. TWO PARKING SPACES SHALL BE PERMITTED TO SHARE A COMMON ACCESS AISLE. §11B-502.3, FIGURES 11B-502.2 AND 11B-502.3
- 14. ACCESS AISLES SHALL BE MARKED WITH A BLUE PAINTED BORDERLINE AROUND THEIR PERIMETER. THE AREA WITHIN THE BLUE BORDERLINES SHALL BE MARKED WITH HATCHED LINES A MAXIMUM OF 36 INCHES ON CENTER IN A COLOR CONTRASTING WITH THAT OF THE AISLE SURFACE, PREFERABLY BLUE OR WHITE. THE WORDS "NO PARKING" SHALL BE PAINTED ON THE SURFACE WITHIN EACH ACCESS AISLE IN WHITE LETTERS A MINIMUM OF 12 INCHES IN HEIGHT AND LOCATED TO BE VISIBLE FROM THE ADJACENT VEHICULAR WAY. ACCESS AISLE MARKINGS MAY EXTEND BEYOND THE MINIMUM REQUIRED LENGTH. §11B-502.3.3

- 15. ACCESS AISLES SHALL NOT OVERLAP THE VEHICULAR WAY. ACCESS AISLES SHALL BE PERMITTED TO BE PLACED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR VAN PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES. §11B-502.3.4
- 16. CLEARLY SHOW MINIMUM VERTICAL CLEARANCE OF 8 FEET 2 INCHES AT ACCESSIBLE PARKING SPACES AND ALONG AT LEAST ONE VEHICLE ACCESS ROUTE TO SUCH SPACES FROM SITE ENTRANCES AND EXITS. §11B-502.5
- 17. PARKING SPACE IDENTIFICATION SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY. §11B-502.6, FIGURE 11B-703.7.2.1
- 18. SIGNS IDENTIFYING VAN PARKING SPACES SHALL CONTAIN ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN WITH THE DESIGNATION "VAN ACCESSIBLE." SIGNS SHALL BE 60 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE MEASURED TO THE BOTTOM OF THE SIGN. §11B-502.6
- 19. PARKING IDENTIFICATION SIGNS SHALL BE REFLECTORIZED WITH A MINIMUM AREA OF 70 SQUARE INCHES. §11B-502.6.1
- 20. ADDITIONAL LANGUAGE OR AN ADDITIONAL SIGN BELOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL STATE "MINIMUM FINE \$250." §11B-502.6.2
- 21. A PARKING SPACE IDENTIFICATION SIGN SHALL BE VISIBLE FROM EACH PARKING SPACE. SIGNS SHALL BE PERMANENTLY POSTED EITHER IMMEDIATELY ADJACENT TO THE PARKING SPACE OR WITHIN THE PROJECTED PARKING SPACE WIDTH AT THE HEAD END OF THE PARKING SPACE. SIGNS MAY ALSO BE PERMANENTLY POSTED ON A WALL AT THE INTERIOR END OF THE PARKING SPACE. §11B-502.6.3
- 22. EACH ACCESSIBLE CAR AND VAN SPACE SHALL HAVE SURFACE IDENTIFICATION COMPLYING WITH EITHER OF THE FOLLOWING SCHEMES: §11B-502.6.4
- A. THE PARKING SPACE SHALL BE MARKED WITH AN INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY IN WHITE ON A BLUE BACKGROUND A MINIMUM 36 INCHES WIDE BY 36 INCHES
- HIGH. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE LENGTH. §11B-502.6.4.1
- B. THE PARKING SPACE SHALL BE OUTLINED OR PAINTED BLUE AND SHALL BE MARKED WITH
- INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH SECTION 11B-703.7.2.1 INTERNATIONAL SYMBOL OF ACCESSIBILITY A MINIMUM 36 INCHES WIDE BY 36 INCHES HIGH IN WHITE OR A SUITABLE CONTRASTING COLOR. THE CENTERLINE OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE A MAXIMUM OF 6 INCHES FROM THE CENTERLINE OF THE PARKING SPACE, ITS SIDES PARALLEL TO THE LENGTH OF THE PARKING SPACE AND ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE PARKING SPACE. §11B-502.6.4.2
- 23. AN ADDITIONAL SIGN SHALL BE POSTED EITHER; 1) IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO AN OFF-STREET PARKING FACILITY OR 2) IMMEDIATELY ADJACENT TO ON-SITE ACCESSIBLE PARKING AND VISIBLE FROM EACH PARKING SPACE. §11B-502.8
- C. THE ADDITIONAL SIGN SHALL NOT BE LESS THAN 17 INCHES WIDE BY 22 INCHES HIGH. §11B-502.8.1
- D. THE ADDITIONAL SIGN SHALL CLEARLY STATE IN LETTERS WITH A MINIMUM HEIGHT OF 1 INCH THE FOLLOWING: §11B-502.8.2
- "UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLES MAY BE
- RECLAIMED AT: ______ OR BY TELEPHONING _____."

 BLANK SPACES SHALL BE FILLED IN WITH APPROPRIATE INFORMATION AS A PERMANENT PART
 OF THE SIGN
- (TOWING COMPANY'S NAME AND TELEPHONE NOS. * MUST BE PROVIDED ON SIGN)
- 24. PARKING SPACES AND ACCESS AISLES SHALL BE DESIGNED SO THAT PERSONS USING THEM ARE NOT REQUIRED TO TRAVEL BEHIND PARKING SPACES OTHER THAN TO PASS BEHIND THE PARKING SPACE IN WHICH THEY PARKED. §11B-502.7.1
- 25. A CURB OR WHEEL STOP SHALL BE PROVIDED IF REQUIRED TO PREVENT ENCROACHMENT OF VEHICLES OVER THE REQUIRED CLEAR WIDTH OF ADJACENT ACCESSIBLE ROUTES. §11B-502.7.2

E. PLUMBING FIXTURES AND FACILITIES

- 1. NO FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED. ONE DRINKING FOUNTAIN SHALL COMPLY WITH 11B-602.1 THROUGH 11B-602.6 AND ONE DRINKING FOUNTAIN SHALL COMPLY WITH 11B-602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. §11B-211.2 (SEE EXCEPTION)
- 2. WHERE MORE THAN THE MINIMUM NUMBER OF DRINKING FOUNTAINS SPECIFIED IN 11B-211.2 ARE PROVIDED, 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 11B-602.1 THROUGH 11B-602.6, AND 50 PERCENT OF THE TOTAL NUMBER OF DRINKING FOUNTAINS PROVIDED SHALL COMPLY WITH 11B-602.7 DRINKING FOUNTAINS FOR STANDING PERSONS. §11B-211.3 SEE EXCEPTION
- 3. DRINKING FOUNTAINS SHALL COMPLY WITH SECTIONS 11B-307 PROTRUDING OBJECTS AND 11B-602 GENERAL REQUIREMENTS. §11B-602.1
- 4. UNITS SHALL HAVE A CLEAR FLOOR OR GROUND SPACE COMPLYING WITH SECTION 11B-305 CLEAR FLOOR OR GROUND SPACE POSITIONED FOR A FORWARD APPROACH AND CENTERED ON THE UNIT. KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306 KNEE AND TOE CLEARANCE SHALL BE PROVIDED. §11B-602.2
- 5. WHERE DRINKING FOUNTAINS ARE USED BY CHILDREN, A PARALLEL APPROACH COMPLYING WITH SECTION 11B-305 CLEAR FLOOR OR GROUND SURFACES SHALL BE PERMITTED AT UNITS WHERE THE SPOUT IS 30 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND AND IS 3½" MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. §11B-602.2 EXCEPTION
- 6. SPOUT OUTLETS SHALL BE 36 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-602.4

7. THE SPOUT SHALL BE LOCATED 15 INCHES MINIMUM FROM THE VERTICAL SUPPORT AND 5

- INCHES MAXIMUM FROM THE FRONT EDGE OF THE UNIT, INCLUDING BUMPERS. §11B-602.5

 8. THE SPOUT SHALL PROVIDE A FLOW OF WATER 4INCHES HIGH MINIMUM AND SHALL BE
 LOCATED 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT. THE ANGLE OF THE WATER
 STREAM SHALL BE MEASURED HORIZONTALLY RELATIVE TO THE FRONT FACE OF THE UNIT.
 WHERE SPOUTS ARE LOCATED LESS THAN 3 INCHES FROM THE FRONT OF THE UNIT, THE
 ANGLE OF THE WATER STREAM SHALL BE 30 DEGREES MAXIMUM. WHERE SPOUTS ARE
 LOCATED BETWEEN 3 INCHES AND 5 INCHES MAXIMUM FROM THE FRONT OF THE UNIT, THE
- ANGLE OF THE WATER STREAM SHALL BE 15 DEGREES MAXIMUM. §11B-602.6

 9. SPOUT OUTLETS OF DRINKING FOUNTAINS FOR STANDING PERSONS SHALL BE 38 INCHES MINIMUM AND 43 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-602.7

- 10. WALL- AND POST-MOUNTED CANTILEVERED DRINKING FOUNTAINS SHALL BE 18 INCHES MINIMUM AND 19 INCHES MAXIMUM IN DEPTH. §11B-602.8
- 11. ALL DRINKING FOUNTAINS SHALL EITHER BE LOCATED COMPLETELY WITHIN ALCOVES, POSITIONED COMPLETELY BETWEEN WING WALLS, OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS. THE PROTECTED AREA WITHIN SUCH A DRINKING FOUNTAIN IS LOCATED SHALL BE 32 INCHES WIDE MINIMUM AND 18 INCHES DEEP MINIMUM, AND SHALL COMPLY WITH SECTION 11B-305.7 MANEUVERING CLEARANCE. WHEN USED, WING WALLS OR BARRIERS SHALL PROTECT HORIZONTALLY AT LEAST AS FAR AS THE DRINKING FOUNTAIN AND TO WITHIN 6 INCHES VERTICALLY FROM THE FLOOR OR GROUND SURFACE. §11B-602.9
- 12. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED, THEY SHALL COMPLY WITH 11B-213 TOILET FACILITIES AND BATHING FACILITIES. WHERE TOILET FACILITIES AND BATHING FACILITIES ARE PROVIDED IN FACILITIES PERMITTED BY 11B-206.2.3 MULTI-STORY BUILDINGS AND FACILITIES EXCEPTIONS 1 AND 2 NOT TO CONNECT STORIES BY AN ACCESSIBLE ROUTE, TOILET FACILITIES AND BATHING FACILITIES SHALL BE PROVIDED ON A STORY CONNECTED BY AN ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE. §11B-213.1 13. WHERE SEPARATE TOILET FACILITIES ARE PROVIDED FOR THE EXCLUSIVE USE OF SEPARATE USER GROUPS, THE TOILET FACILITIES SERVING EACH USER GROUP SHALL COMPLY WITH 11B-213 TOILET FACILITIES AND BATHING FACILITIES. §11B-213.1.1
- 14. WHERE TOILET ROOMS ARE PROVIDED, EACH TOILET ROOM SHALL COMPLY WITH 11B-603 TOILET AND BATHING ROOMS. WHERE BATHING ROOMS ARE PROVIDED, EACH BATHING ROOM SHALL COMPLY WITH 11B-603 TOILET AND BATHING ROOMS. §11B-213.2 SEE EXCEPTIONS
- 15. UNISEX TOILET ROOMS SHALL CONTAIN NOT MORE THAN ONE LAVATORY, AND NOT MORE THAN TWO WATER CLOSETS WITHOUT URINALS OR ONE WATER CLOSET AND ONE URINAL. UNISEX BATHING ROOMS SHALL CONTAIN ONE SHOWER OR ONE SHOWER AND ONE BATHTUB, ONE LAVATORY, AND ONE WATER CLOSET. DOORS TO UNISEX TOILET ROOMS AND UNISEX BATHING ROOMS SHALL HAVE PRIVACY LATCHES. §11B-213.2.1
- 16. DOOR SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. OTHER THAN THE DOOR TO THE ACCESSIBLE WATER CLOSET COMPARTMENT, A DOOR IN ANY POSITION, MAY ENCROACH INTO THE TURNING SPACE BY 12 INCHES MAXIMUM. §11B-603.2.3
- 17. AT SINGLE USER TOILET OR BATHING ROOMS, DOORS SHALL BE PERMITTED TO SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE ONLY IF A 30 INCH BY 48 INCH MINIMUM CLEAR FLOOR SPACE IS PROVIDED
- WITHIN THE ROOM BEYOND THE ARC OF THE DOOR SWING. §11B-603.2.3 EXCEPTION

 18. MIRRORS LOCATED ABOVE THE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITHIN THE BOTTOM EDGE OF THE REFLECTING SURFACE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. MIRRORS NOT LOCATED ABOVE THE LAVATORIES OR COUNTERTOPS SHALL BE INSTALLED WITH THE BOTTOM EDGE OF THE REFLECTING SURFACE 35 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-603.3
- 19. COAT HOOKS SHALL BE LOCATED WITHIN ONE OF THE REACH RANGES SPECIFIED IN SECTION 11B-308. SHELVES SHALL BE LOCATED 40 INCHES MINIMUM AND 48 INCHES MAXIMUM ABOVE THE FINISH FLOOR. MEDICINE CABINETS SHALL BE LOCATED WITH A USABLE SHELF NO HIGHER THAN 44 INCHES MAXIMUM ABOVE THE FINISH FLOOR. §11B-603.4
- 20. WHERE TOWEL OR SANITARY NAPKIN DISPENSERS, WASTE RECEPTACLES, OR OTHER ACCESSORIES ARE PROVIDED IN TOILET FACILITIES, AT LEAST ONE OF EACH TYPE SHALL BE LOCATED ON AN ACCESSIBLE ROUTE. ALL OPERABLE PARTS, INCLUDING COIN SLOTS, SHALL BE 40 INCHES MAXIMUM ABOVE THE FINISH FLOOR. §11B-603.5
- 21. THE WATER CLOSET SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE OF THE WATER CLOSET SHALL BE 17 INCHES MINIMUM TO 18 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION, EXCEPT THAT THE WATER CLOSET SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION IN THE AMBULATORY ACCESSIBLE TOILET COMPARTMENT SPECIFIED IN SECTION 11B-604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS. WATER CLOSETS SHALL BE ARRANGED FOR A LEFT-HAND OR RIGHT-HAND APPROACH. §11B-604.2
- 22. CLEARANCE AROUND A WATER CLOSET SHALL BE 60 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE SIDE WALL AND 56 INCHES MINIMUM MEASURED PERPENDICULAR FROM THE REAR WALL. A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. §11B-604.3.1
- 23. THE SEAT HEIGHT OF A WATER CLOSET ABOVE THE FINISH FLOOR SHALL BE 17 INCHES MINIMUM AND 19 INCHES MAXIMUM MEASURED TO THE TOP OF THE SEAT. SEATS SHALL NOT BE SPRUNG THE RETURN TO A LIFTED POSITION. SEATS SHALL BE 2 INCHES HIGH MAXIMUM AND A 3 INCH HIGH SEAT SHALL BE PERMITTED ONLY IN ALTERATIONS WHERE THE EXISTING FIXTURE IS LESS THAN 15 INCHES HIGH. §11B-604.4 (SEE EXCEPTION FOR RESIDENTIAL UNITS)
- 24. THE SIDE WALL GRAB BARS SHALL BE 42 INCHES LONG MINIMUM, LOCATED 12 INCHES MAXIMUM FROM THE REAR WALL AND EXTENDING 54 INCHES MINIMUM FROM THE REAR WALL WITH THE FRONT END POSITIONED 24 INCHES MINIMUM IN FRONT OF THE WATER CLOSET. **\$11B-604.5.1**
- 25. THE REAR GRAB BAR SHALL BE 36 INCHES LONG MINIMUM AND EXTEND FROM THE CENTERLINE OF THE WATER CLOSET 12 INCHES MINIMUM ON ONE SIDE AND 24 INCHES MINIMUM ON THE OTHER SIDE. §11B-604.5.2 (SEE EXCEPTIONS)
- 26. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 11B-309.4 OPERATION EXCEPT THEY SHALL BE LOCATED 44 INCHES MAXIMUM ABOVE THE FLOOR. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS COMPLYING WITH SECTION 11B-604.8.2 AMBULATORY ACCESSIBLE COMPARTMENTS. §11B-604.6
- 27. TOILET PAPER DISPENSERS SHALL COMPLY WITH SECTION 11B-309.4 OPERATION AND SHALL BE 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES MINIMUM ABOVE THE FINISH FLOOR AND SHALL NOT BE LOCATED BEHIND THE GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROL DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW. §11B-604.7
- 28. WHEELCHAIR ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES WIDE MINIMUM MEASURE PERPENDICULAR TO THE SIDE WALL, AND 56 INCHES DEEP MINIMUM FOR WALL HUNG WATER CLOSETS AND 59 INCHES DEEP MINIMUM FOR FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. WHEELCHAIR ACCESSIBLE COMPARTMENTS FOR CHILDREN'S USE SHALL BE 60 INCHES WIDE MINIMUM MEASURED PERPENDICULAR TO THE SIDE WALL, AND 59 INCHES DEEP MINIMUM FOR WALL HUNG AND FLOOR MOUNTED WATER CLOSETS MEASURED PERPENDICULAR TO THE REAR WALL. §11B-604.8.1.1
- 29. IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH AN IN-SWING DOOR, A MINIMUM 60 INCHES WIDE BY 36 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE CLEARANCE REQUIRED IN SECTION 11B-604.8.1.1 WHEELCHAIR ACCESSIBLE COMPARTMENT SIZE. §11B-604.8.1.1.1, FIGURES 11B-604.8.1.1.2(B) AND 11B-604.8.1.1.3(B)
- 30. IN A WHEELCHAIR ACCESSIBLE COMPARTMENT WITH A SIDE-OPENING DOOR, EITHER IN-SWINGING OR OUT-SWINGING, A MINIMUM 60 INCHES WIDE AND 60 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. §11B-604.8.1.1.2, FIGURE 11B-604.8.1.1.2
- 31. IN A WHEEL CHAIR ACCESSIBLE COMPARTMENT WITH END-OPENING DOOR (FACING WATER CLOSET), EITHER IN-SWINGING OR OUT-SWINGING, A MINIMUM 60 INCHES WIDE AND 48 INCHES DEEP MANEUVERING SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET. §11B-604.8.1.1.3, FIGURE 11B-604.8.1.1.3

32. TOILET COMPARTMENT DOORS, INCLUDING DOOR HARDWARE, SHALL COMPLY WITH SECTION 11B-404 DOORS, DOORWAYS, AND GATES EXCEPT THAT IF THE APPROACH IS FROM THE PUSH SIDE OF THE COMPARTMENT DOOR, CLEARANCE BETWEEN THE DOOR SIDE OF THE COMPARTMENT AND ANY OBSTRUCTION SHALL BE 48 INCHES MINIMUM MEASURED PERPENDICULAR TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION. DOOR SHALL BE LOCATED IN FRONT PARTITION OR IN THE SIDE WALL OR PARTITION FARTHEST FROM THE

SELF-CLOSING. §11B-604.8.1.2

- WATER CLOSET. §11B-604.8.1.2

 33. WHERE TOILET COMPARTMENT DOORS ARE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. WHERE LOCATED IN THE SIDE WALL OR PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE FRONT PARTITION AND THE DOOR SHALL BE
- 34. A DOOR PULL COMPLYING WITH SECTION 11B-404.2.7 DOOR AND GATE HARDWARE SHALL BE PLACED ON BOTH SIDES OF THE DOOR NEAR THE LATCH. DOOR SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE REQUIRED FOR ANY FIXTURE. DOORS MAY SWING INTO THAT PORTION OF THE MANEUVERING SPACE WHICH DOES NOT OVERLAP THE CLEARANCE REQUIRED AT A WATER CLOSET. §11B-604.8.1.2 (SEE EXCEPTION)
- 35. AT LEAST ONE SIDE PARTITION SHALL PROVIDE A TOE CLEARANCE OF 9 INCHES MINIMUM ABOVE THE FINISH FLOOR AND 6 INCHES DEEP MINIMUM BEYOND THE COMPARTMENT-SIDE FACE OF THE PARTITION, EXCLUSIVE OF PARTITION SUPPORT MEMBERS. PARTITION COMPONENTS AT TOE CLEARANCES SHALL BE SMOOTH WITHOUT SHARP EDGES OR ABRASIVE SURFACES. COMPARTMENTS FOR CHILDREN'S USE SHALL PROVIDE A TOE CLEARANCE OF 12 INCHES MINIMUM ABOVE THE FINISH FLOOR. §11B-604.8.1.4
- 36. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL HAVE A DEPTH OF 35 INCHES MINIMUM AND 37 INCHES MAXIMUM. §11B-604.8.2.1
- 37. WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE SHALL COMPLY WITH SECTION 11B-604.9 WATER CLOSETS AND TOILET COMPARTMENTS FOR CHILDREN'S USE AND FOLLOW SUGGESTED DIMENSIONS ON TABLE 11B-604.9. §11B-604.9
- 38. URINALS SHALL BE THE STALL-TYPE OR THE WALL-HUNG TYPE WITH THE RIM 17 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. URINALS SHALL BE 13½ INCHES DEEP MINIMUM MEASURED FROM THE OUTER FACE OF THE URINAL RIM TO THE BACK OF THE FIXTURE. §11B-605.2
- 39. FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED FLUSH CONTROLS SHALL COMPLY WITH SECTION 11B-309 OPERABLE PARTS EXCEPT THAT THE FLUSH CONTROL SHALL BE MOUNTED AT A MAXIMUM HEIGHT OF 44 INCHES ABOVE THE FINISH FLOOR. \$11B-605.4
- 40. LAVATORIES AND SINKS SHALL COMPLY WITH SECTION 11B-606 LAVATORIES AND SINKS. §11B-606.1
- 41. FOR LAVATORIES AND SINKS, A CLEAR FLOOR SPACE COMPLYING WITH SECTION 11B-305 CLEAR FLOOR OR GROUND SURFACES, POSITIONED FOR A FORWARD APPROACH, AND KNEE AND TOE CLEARANCE COMPLYING WITH SECTION 11B-306 KNEE AND TOE CLEARANCE SHALL BE PROVIDED. §11B-606.2
- 42. LAVATORIES AND SINKS SHALL BE INSTALLED WITH THE FRONT OF THE HIGHER OF THE RIM OR COUNTER SURFACE 34 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-606.3

F. COMMUNICATION ELEMENTS AND FEATURES

- 5. ASSISTIVE LISTENING SYSTEMS SHALL BE PROVIDED IN ASSEMBLY AREAS, INCLUDING CONFERENCE AND MEETING ROOMS, USED FOR THE PURPOSE OF ENTERTAINMENT, EDUCATIONAL OR CIVIC GATHERINGS, OR SIMILAR PURPOSES. §202, §11B-219.2 NOTE: ASSEMBLY AREAS INCLUDE, BUT ARE NOT LIMITED TO, CLASSROOMS, LECTURE HALLS, COURTROOMS, PUBLIC MEETING ROOMS, PUBLIC HEARING ROOMS, LEGISLATIVE CHAMBERS, MOTION PICTURE HOUSES, AUDITORIA, THEATERS, PLAYHOUSES, DINNER THEATERS, CONCERT HALLS, CENTERS FOR THE PERFORMING ARTS, AMPHITHEATERS, ARENAS, STADIUMS, GRANDSTANDS, OR CONVENTION CENTERS. §202, §11B-219.2 6. ASSISTIVE LISTENING SYSTEM SHALL PROVIDE AN AMPLIFICATION SYSTEM UTILIZING TRANSMITTERS, RECEIVERS, AND COUPLING DEVICES TO BYPASS THE ACOUSTICAL SPACE BETWEEN A SOUND SOURCE AND A LISTENER BY MEANS OF INDUCTION LOOP, RADIO FREQUENCY, INFRARED, OR DIRECT-WIRED EQUIPMENT. §202
- 7. PROVIDE EIGHT (8) ASSISTIVE LISTENING SYSTEMS. A MINIMUM NUMBER OF RECEIVERS EQUAL TO 4 PERCENT OF THE TOTAL NUMBER OF SEATS, BUT IN NO CASE LESS THAN TWO. §11B-219.3
- 8. WHERE A BUILDING CONTAINS MORE THAN ONE ASSEMBLY AREA UNDER ONE MANAGEMENT, THE TOTAL NUMBER OF REQUIRED RECEIVERS MAY BE CALCULATED USING THE TOTAL NUMBER OF SEATS IN THE ASSEMBLY AREAS PROVIDED THAT ALL RECEIVERS ARE USABLE WITH ALL SYSTEMS. §11B-219.3 (SEE EXCEPTIONS)
- 9. TWENTY-FIVE PERCENT MINIMUM OF RECEIVERS PROVIDED FOR ASSISTIVE LISTENING SYSTEMS, BUT NO FEWER THAN TWO, SHALL BE HEARING-AID COMPATIBLE WITH EXCEPT WHEN ALL SEATS IN AN ASSEMBLY AREA ARE SERVED BY MEANS OF AN INDUCTION LOOP. §11B-219.3
- 10. WHEN ASSISTIVE-LISTENING SYSTEMS ARE LIMITED TO SPECIFIC AREAS OR SEATS, SUCH AREAS OR SEATS SHALL BE WITHIN A 50-FOOT VIEWING DISTANCE OF THE STAGE OR PLAYING AREA AND SHALL HAVE A COMPLETE VIEW OF THE STAGE OR PLAYING AREA. §11B-219.4
- 11. PERMANENTLY INSTALLED ASSISTIVE-LISTENING SYSTEMS ARE REQUIRED IN AREAS IF (1)
 THEY HAVE FIXED SEATING AND (2A) THEY ACCOMMODATE AT LEAST 50 PERSONS OR (2B) THEY
 HAVE AUDIO-AMPLIFICATION SYSTEMS, EXCEPT THOSE USED EXCLUSIVELY FOR PAGING
 AND/OR BACKGROUND MUSIC. §11B-219.2, §11B-219.5
- 12. PORTABLE ASSISTIVE-LISTENING SYSTEMS MAY SERVE MORE THAN ONE CONFERENCE OR MEETING ROOMS IF AN ADEQUATE NUMBER OF ELECTRICAL OUTLETS OR OTHER SUPPLEMENTARY WIRING IS PROVIDED AND PERMANENTLY INSTALLED SYSTEMS ARE NOT REQUIRED. §11B-219.5
- 13. RECEIVERS REQUIRED FOR USE WITH AN ASSISTIVE LISTENING SYSTEM SHALL INCLUDE A 1/8 INCH STANDARD MONO JACK. §11B-706.2
- 14. RECEIVERS REQUIRED TO BE HEARING-AID COMPATIBLE SHALL INTERFACE WITH TELECOILS IN HEARING AIDS THROUGH THE PROVISION OF NECKLOOPS. §11B-706.3
- LEVEL FROM 110 118 DB WITH A DYNAMIC RANGE ON THE VOLUME CONTROL OF 50 DB.

 §11B-706.4

 16. SIGNAL-TO-NOISE RATIO FOR INTERNALLY GENERATED NOISE IN ASSISTIVE LISTENING

15. ASSISTIVE LISTENING SYSTEMS SHALL BE CAPABLE OF PROVIDING A SOUND PRESSURE

- SYSTEMS SHALL BE 18 DB MINIMUM. §11B-706.5

 17. PEAK CLIPPING SHALL NOT EXCEED 18 DB OF CLIPPING RELATIVE TO THE PEAKS OF SPEECH. §11B-706.6
- 27. INTERIOR AND EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS AND SPACES SHALL COMPLY WITH 11B-703.1 GENERAL, 11B-703.2 RAISED CHARACTERS, 11B-703.3 BRAILLE AND 11B-703.5 VISUAL CHARACTERS. WHERE PICTOGRAMS ARE PROVIDED AS DESIGNATIONS OF PERMANENT INTERIOR ROOMS AND SPACES, THE PICTOGRAMS SHALL COMPLY WITH 11B-703.6 PICTOGRAMS AND SHALL HAVE TEXT DESCRIPTORS COMPLYING WITH 11B-703.2 AND 11B-703.5. §11B-216.2 (SEE EXCEPTION)
- 28. SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT INTERIOR AND EXTERIOR SPACES AND FACILITIES OF THE SITE SHALL COMPLY WITH 11B-703.5 VISUAL CHARACTERS.



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29. IN EXISTING BUILDINGS AND FACILITIES WHERE NOT ALL ENTRANCES COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES, COMPLIANT ENTRANCES SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. DIRECTIONAL SIGNS COMPLYING WITH 11B-703.5 VISUAL CHARACTERS THAT INDICATE THE LOCATION OF THE NEAREST ENTRANCE COMPLYING WITH 11B-404 SHALL BE PROVIDED AT ENTRANCES THAT DO NOT COMPLY WITH 11B-404 DOORS, DOORWAYS, AND GATES. DIRECTIONAL SIGNS COMPLYING WITH 11B-703.5 VISUAL CHARACTERS, INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA, INDICATING THE ACCESSIBLE ROUTE TO THE NEAREST ACCESSIBLE ENTRANCE SHALL BE PROVIDED AT JUNCTIONS WHEN THE ACCESSIBLE ROUTE DIVERGES FROM THE REGULAR CIRCULATION PATH. §11B-216.6 (SEE **EXCEPTIONS)**

30. DOORWAYS LEADING TO TOILET ROOMS AND BATHING ROOMS COMPLYING WITH 11B-603 TOILET AND BATHING ROOMS SHALL BE IDENTIFIED BY A GEOMETRIC SYMBOL COMPLYING WITH 11B-703.7.2.6 TOILET AND BATHING ROOM GEOMETRIC SYMBOLS. WHERE EXISTING TOILET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 11B-603 TOILET AND BATHING ROOMS, DIRECTIONAL SIGNS INDICATING THE LOCATION OF THE NEAREST COMPLIANT TOILET ROOM OR BATHING ROOM WITHIN THE FACILITY SHALL BE PROVIDED. SIGNS SHALL COMPLY WITH 11B-703.5 VISUAL CHARACTERS AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. WHERE EXISTING TOILET ROOMS OR BATHING ROOMS DO NOT COMPLY WITH 11B-603 TOILET AND BATHING ROOMS, THE TOILET ROOMS OR BATHING ROOMS COMPLYING WITH 11B-603 TOILET AND BATHING ROOMS SHALL BE IDENTIFIED BY THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. WHERE CLUSTERED SINGLE USER TOILET ROOMS OR BATHING FACILITIES ARE PERMITTED TO USE EXCEPTIONS TO 11B-213.2 TOILET AND BATHING ROOMS, TOILET ROOMS OR BATHING FACILITIES COMPLYING WITH 11B-603 TOILET AND BATHING ROOMS SHALL BE IDENTIFIED BY

THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA UNLESS ALL TOILET ROOMS AND BATHING FACILITIES COMPLY WITH 11B-603 TOILET AND BATHING ROOMS. EXISTING BUILDINGS THAT HAVE BEEN REMODELED TO PROVIDE SPECIFIC TOILET ROOMS OR BATHING ROOMS FOR PUBLIC USE THAT COMPLY WITH THESE BUILDING STANDARDS SHALL HAVE THE LOCATION OF AND THE DIRECTIONS TO THESE ROOMS POSTED IN OR NEAR THE BUILDING LOBBY OR ENTRANCE ON A SIGN COMPLYING WITH 11B-703.5 VISUAL CHARACTERS, INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH 11B-703.7.2.1 ISA. **§11B-216.8**

31. SIGNS WITH TACTILE CHARACTERS SHALL COMPLY WITH 11B-703.4 INSTALLATION HEIGHT AND LOCATION. §11B-703.4

A. TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER BRAILLE CELLS AND 60 INCHES MAXIMUM ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER LINE OF RAISED CHARACTERS. §11B-703.4.1 (SEE EXCEPTION)

B. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHERE PERMANENT IDENTIFICATION SIGNAGE IS PROVIDED FOR ROOMS AND SPACES THEY SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE ENTERS THE ROOM OR SPACE. SIGNS THAT IDENTIFY

EXITS SHALL BE LOCATED ON THE APPROACH SIDE OF THE DOOR AS ONE EXITS THE ROOM OR SPACE. 11B-703.4.2 (SEE EXCEPTION)

32. VISUAL CHARACTERS SHALL COMPLY WITH THE FOLLOWING, EXCEPT WHERE VISUAL CHARACTERS COMPLY WITH 11B-703.2 RAISED CHARACTERS AND ARE ACCOMPANIED BY BRAILLE COMPLYING WITH 11B-703.3 BRAILLE, THEY SHALL NOT BE REQUIRED TO COMPLY WITH 11B-703.5.2 THROUGH 11B-703.5.6, 11B-703.5.8 AND 11B-703.5.9:

A. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND. §11B-703.5.1

B. CHARACTERS SHALL BE UPPERCASE OR LOWERCASE OR A COMBINATION OF BOTH. §11B-703.5.2

C. CHARACTERS SHALL BE CONVENTIONAL IN FORM. CHARACTERS SHALL NOT BE ITALIC, OBLIQUE, SCRIPT, HIGHLY DECORATIVE, OR OF OTHER UNUSUAL FORMS. §11B-703.5.3

D. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 60 PERCENT MINIMUM AND 110 PERCENT MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". §11B-703.5.4

E. MINIMUM CHARACTER HEIGHT SHALL COMPLY WITH TABLE 11B-703.5.5. VIEWING DISTANCE SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CHARACTER AND AN OBSTRUCTION PREVENTING FURTHER APPROACH TOWARDS THE SIGN. CHARACTER HEIGHT SHALL BE BASED ON THE UPPERCASE LETTER "I". §11B-703.5.5 (SEE EXCEPTION)

F. VISUAL CHARACTERS SHALL BE 40 INCHES MINIMUM ABOVE THE FINISH FLOOR OR GROUND. §11B-703.5.6 (SEE EXCEPTIONS)

G. STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10 PERCENT MINIMUM AND 20 PERCENT MAXIMUM OF THE HEIGHT OF THE CHARACTER. §11B-703.5.7

H. CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT CHARACTERS, EXCLUDING WORD SPACES. SPACING BETWEEN INDIVIDUAL CHARACTERS SHALL BE 10 PERCENT MINIMUM AND 35 PERCENT MAXIMUM OF CHARACTER HEIGHT. §11B-703.5.8

I. SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF CHARACTERS WITHIN A MESSAGE SHALL BE 135 PERCENT MINIMUM AND 170 PERCENT MAXIMUM OF THE CHARACTER HEIGHT. §11B-703.5.9

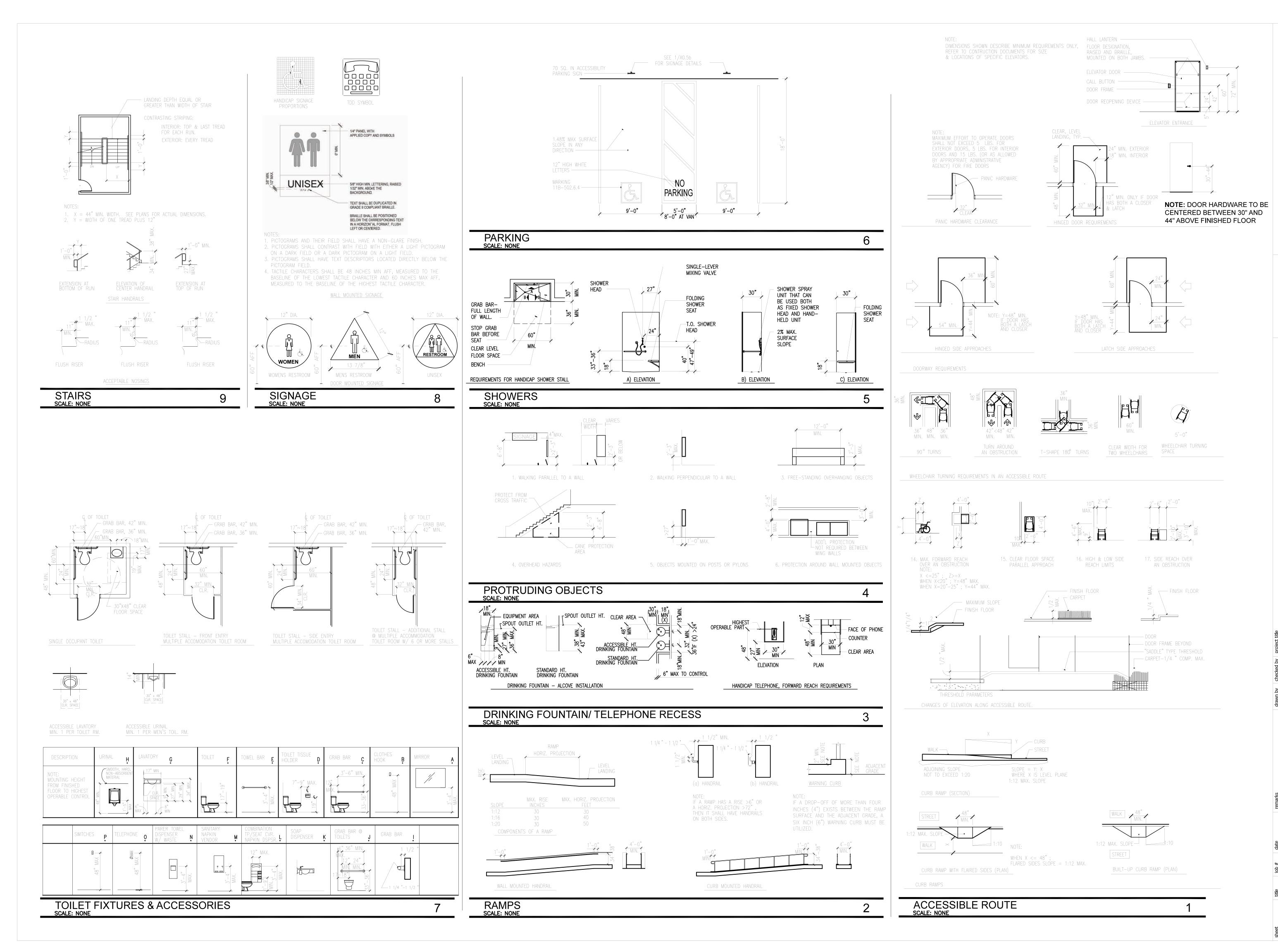
J. TEXT SHALL BE IN A HORIZONTAL FORMAT. §11B-703.5.10



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DISABLED ACCESS NOTES



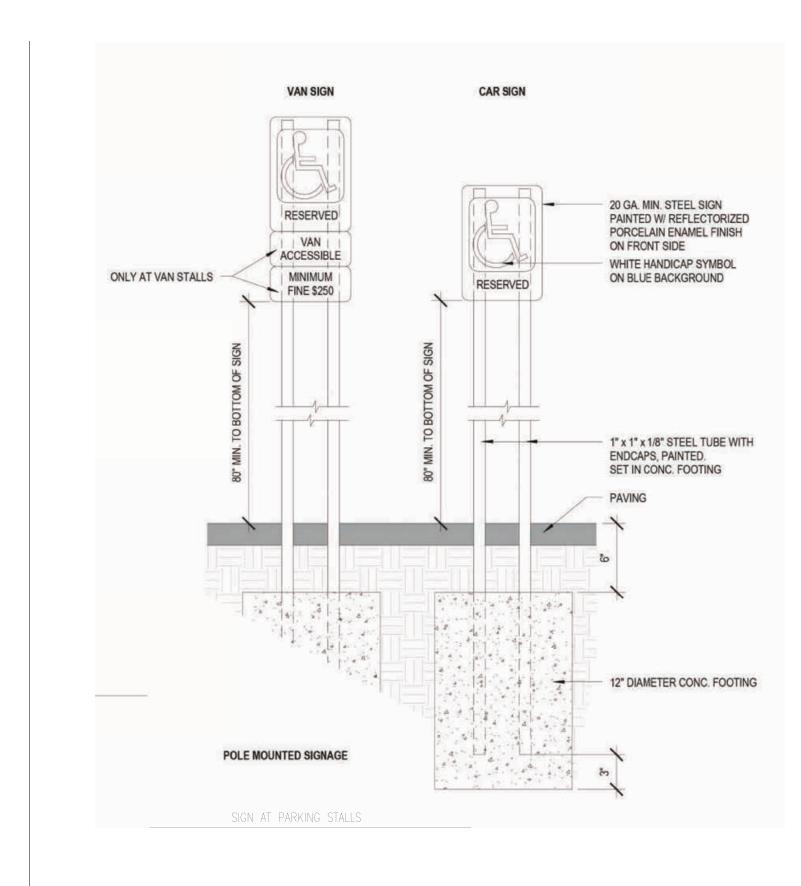


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DISABLED ACCESS DIAGRAMS & NOTES

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"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED HANDICAPPED SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR LICENSE PLATES ISSUED FOR PHYSICALLY DISABLED PERSONS WILL BE TOWED AWAY AT OWNERS EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT OR BY TELEPHONING	REFLECTORIZED SIGN WITH BOTTOM AT 6'-8" MINIMUM ABOVE PARKING SURFACE. THE SIGN SHALL NOT BE LESS THAN 17" W x 22" H IN SIZE W/ LETTERING NOT LESS THAN 1" IN HEIGHT WHICH CLEARLY STATES:
	2" x 2" x 1/8" STL. TUBE PAINTED TO SET IN CONC. FOOTING A.C. PAVING

ACCESSIBLE PARKING STALL SIGNAGE SCALE: NONE

DISABLED ACCESS DIAGRAMS & NOTES

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GENERAL NOTES: LEGEND: <u>GENERAL</u> WORK SHOWN HEREON SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD CIVIL LIMITS OF WORK SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS, THE CALIFORNIA BUILDING CODE (EXCAVATION AND GRADING), SHEET MATCH LINE AND CITY OF LENNOX LOCAL ORDINANCES AS APPLICABLE. 2. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE **ANNOTATION** REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT, "[REPORT NAME]", BY [COMPANY NAME] DATED [MONTH DAY, YEAR]. 100.00 XX SURFACE ELEVATION/UTILITY ELEVATION 3. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED (100.00)XX EXISTING SURFACE ELEVATION/UTILITY ELEVATION DECEMBER 14, 2018 BY KPFF CONSULTING ENGINEERS. XX CONSTRUCTION NOTE 4. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND FLOW (DIRECTION AND GRADE) 2.0% PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. SLOPE (DIRECTION AND RUN:RISE) 5. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL CONTROL POINT LABEL JOIN CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES _CX INCLUDING LOCATION AND ELEVATION OF EXISTING UNDERGROUND FACILITIES CURVE DATA LABEL AT CROSSINGS WITH PROPOSED UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY PAD/FINISHED FLOOR ELEVATION |FF=100.00| THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED. 6. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE CURB/BACK OF CURB/GUTTER START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF RETAINING WALL/SITE WALL CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE PROPERTY LINE/RIGHT OF WAY REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT. CENTER LINE 7. THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR. UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY / / / TO BE DEMOLISHED THE PREPARER OF THESE PLANS. 8. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION **EROSION CONTROL** SHALL BE AS SHOWN FOR SIMILAR WORK. SANDBAGS ∞ 9. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR PROPOSED BUILDING EXCAVATION OUTLINE SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE EXISTING DRAINAGE DIRECTION OF FLOW IF AT ANY TIME DURING GRADING OPERATIONS, ANY UNFAVORABLE GEOLOGICAL PROTECT TREE IN PLACE CONDITIONS ARE ENCOUNTERED, GRADING IN THAT AREA WILL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED. 11. THE PROPOSED GRADE IS THE FINAL GRADE AND NOT THE ROUGH GRADE. THE CONTRACTOR SHALL SUBTRACT THE THICKNESS OF THE PAVED SECTION <u>GRADING</u> AND/OR LANDSCAPE TOPSOIL SECTION TO ARRIVE AT THE ROUGH GRADE PROPOSED MAJOR CONTOUR ELEVATION. PROPOSED MINOR CONTOUR 12. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS. \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow 13. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND GRADE BREAK LINE DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM RIDGE LINE THE SITE. _____R___ 14. ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED DURING EARTHEN SWALE CONSTRUCTION SHALL BE COMPACTED PER THE REQUIREMENTS OF THE SOILS REPORT BUT NOT LESS THAN 90% MAXIMUM DENSITY AS DETERMINED BY SAWCUT ____ A.S.T.M. SOIL COMPACTION TEST D-1557. LIMITS OF GRADING 15. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A. PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES GRADING BENCH OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER. GRADED SLOPE (HORIZONTAL: VERTICAL) 16. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED. 17. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER FROM TOP OF PIPE TO FINISHED GRADE, UNLESS OTHERWISE NOTED. 18. THRUST BLOCKS SHALL BE INSTALLED AT WATERLINE HORIZONTAL AND VERTICAL BENDS, TEES, CAPPED ENDS AND REDUCERS ACCORDING TO THE SANITARY SEWER DETAILS PROVIDED ON THESE PLANS. 20. CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING DOMESTIC WATER SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, FIRE WATER STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR STORM DRAIN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. 21. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH PERFORATED PIPE 22. CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT (800-227-2600) PRIOR TO EXCAVATION. POINT OF CONNECTION 23. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF. COORDINATION POINT 24. ALL CURB DIMENSIONS AND RADII ARE TO PAVEMENT FACE OF CURB. CAP OR PLUG 25. CONTRACTOR TO BE AWARE OF ALL OVERHEAD LINES AT ALL TIMES, SO AS UTILITY MANHOLE NOT TO DISTURB THEM. 26. WATER SHALL BE PROVIDED ONSITE AND USED TO CONTROL DUST DURING UTILITY CLEANOUT CONSTRUCTION OPERATIONS. STORM DRAIN INLET 27. CONTRACTOR SHALL OBTAIN ANY NECESSARY PERMITS FROM THE CITY OF LENNOX FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY. AREA DRAIN/PLANTER DRAIN 28. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED TRENCH DRAIN FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE FIRE HYDRANT SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION. THRUST BLOCK 29. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, INCLUDING NPDES, FROM THE APPROPRIATE JURISDICTIONAL AGENCIES FOR DISCHARGE OF FIRE DEPARTMENT CONNECTION (FDC) GROUNDWATER THAT MAY BE NECESSARY TO ACCOMPLISH EXCAVATIONS SHOWN ON THESE PLANS. POST INDICATOR VALVE (PIV) WATER VALVE

BACKFLOW ASSEMBLY

UTILITY METER VAULT

AC BCR	ONS:		
BCR	ASPHALTIC CONCRETE	мн	MANHOLE
· ·	BEGIN CURVE RETURN	(N)	NORTH
BW	BACK OF WALK	NTS	NOT TO SCALE
BLDG	BUILDING	PA	PLANTER AREA
ВМ	BENCH MARK	POC	POINT OF CONNECTION
BOS	BOTTOM OF STAIRS	PIV	POST INDICATOR VALVE
BMP	BEST MANAGEMENT PRACTICES	PCC	POINT OF COMPOUND CURV
СВ	CATCH BASIN	PRC	POINT OF REVERSE CURVE
CI	CAST IRON	PRV	PRESSURE REDUCING VALVE
CL	CENTER LINE	PVC	POLYVINYL CHLORIDE
CMU	CONCRETE MASONRY UNIT	R	RADIUS
CO	CLEANOUT	RCIP	RECTANGULAR CAST IRON P
CONC	PORTLAND CEMENT CONCRETE	RD	ROOF DRAIN
CF	CURB FACE	RW	RIGHT-OF-WAY
DW	DOMESTIC WATER	(S)	SOUTH
(E)	EAST	S=	SLOPE EQUALS
ECR	END CURVE RETURN	SD	STORM DRAIN
EG	EDGE OF GUTTER	SSMH	SANITARY SEWER MANHOLE
EL. OR ELEV	ELEVATION	SS	SANITARY SEWER
ELEC	ELECTRIC, ELECTRICAL	STD	STANDARD
EX. OR EXIST.	EXISTING	SDMH	STORM DRAIN MANHOLE
FDC	FIRE DEPARTMENT CONNECTION	TC	TOP OF CURB
FF	FINISHED FLOOR	TEL	TELEPHONE
FG	FINISHED GRADE (LANDSCAPE)	TG	TOP OF GRATE
FS	FINISHED SURFACE (HARDSCAPE)	TOS	TOP OF STAIRS
FH	FIRE HYDRANT	TW	TOP OF WALL
FL	FLOW LINE	TS	TRAFFIC SIGNAL
FT	FOOT OR FEET	TSB	TRAFFIC SIGNAL BOX
FU	FIXTURE UNITS	TYP	TYPICAL
FW	FIRE WATER	TV	TELEVISION
GPM	GALLONS PER MINUTE	VIF	VERIFY IN FIELD
GV	GATE VALVE	VLT	VAULT
HDPE	HIGH DENSITY POLYETHYLENE	VCP	VITRIFIED CLAY PIPE
HP	HIGH POINT	(W)	WEST
INV.	INVERT	W	WATER
LP	LOW POINT	WM	WATER METER
	MAXIMUM	WV	WATER VALVE
MAX.	MINIMUM		

PLANTER AREA/LANDSCAPE

(REFER TO LANDSCAPING PLANS FOR DETAILS)

THIS PLAN HAS BEEN REVIEWED AND CONFORMS TO RECOMMENDATIONS

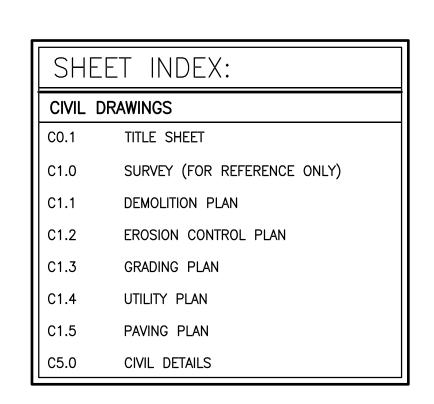
OF SOILS ENGINEERING/GEOLOGICAL REPORT BY [COMPANY NAME] DATED

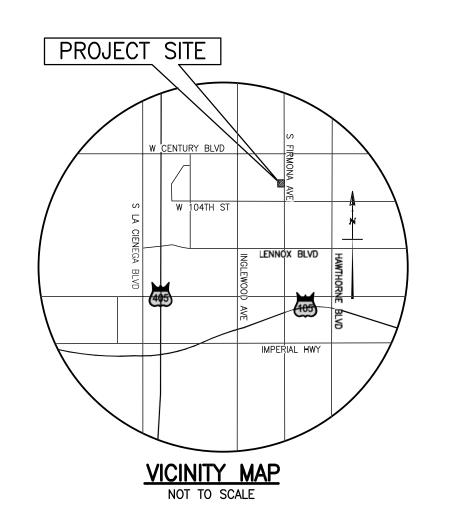
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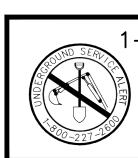
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SIGNATURE







1-800-227-2600 CALL USA/SC FOR UNDERGROUND LOCATING 48 HOURS BEFORE YOU

IMPORTANT NOTICE SECTION 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIGALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIGALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT

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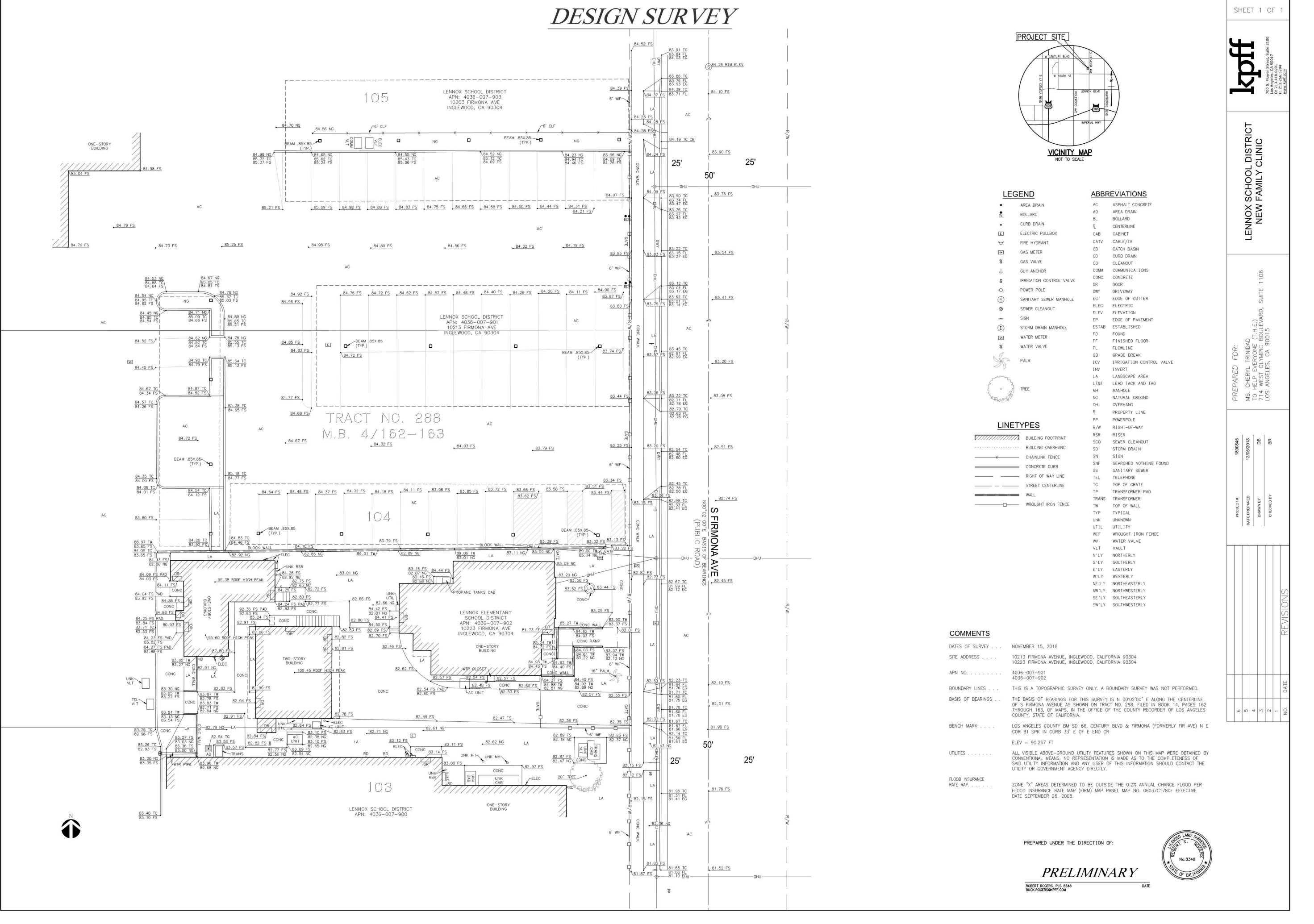


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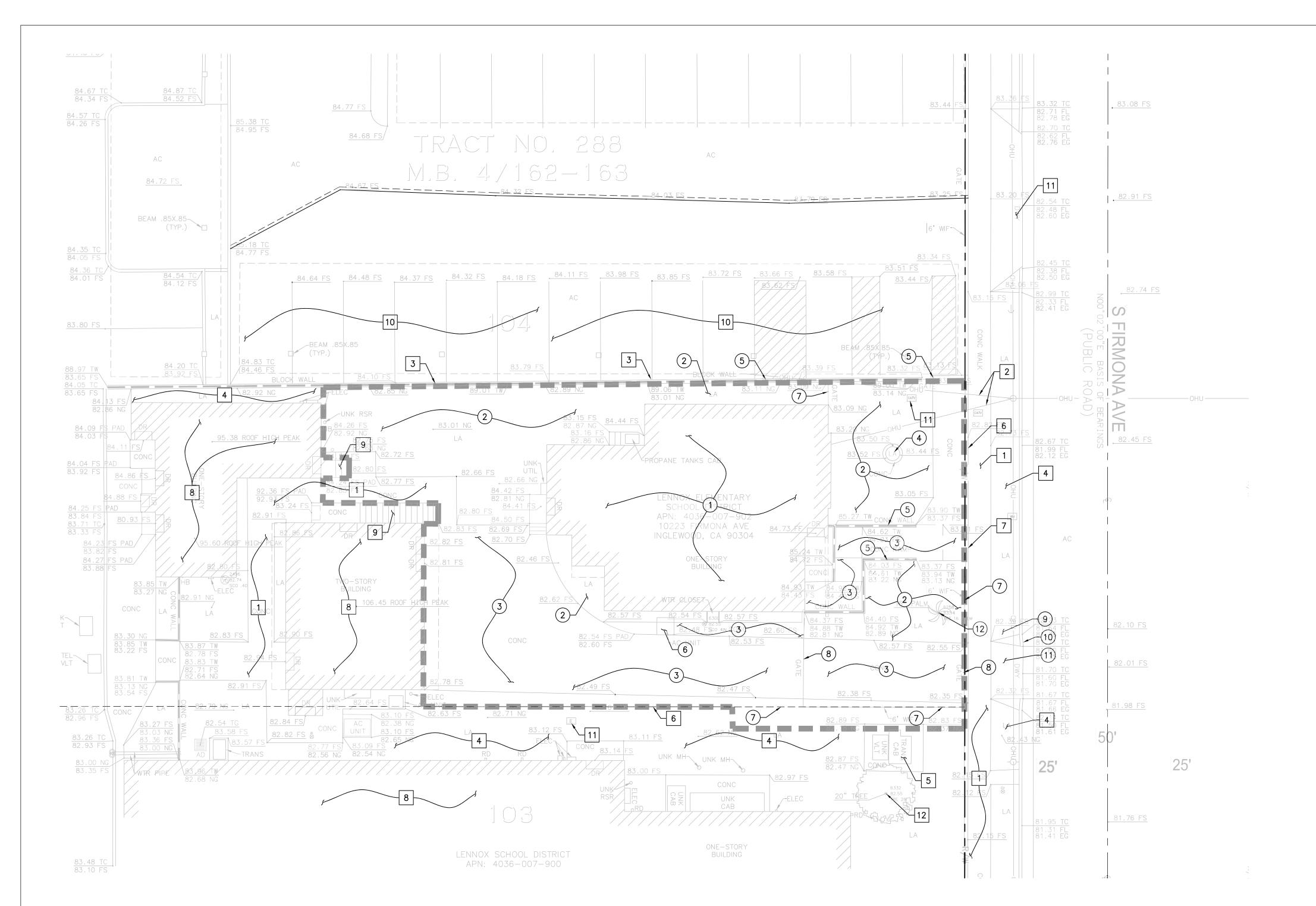
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DESIGN DEVELOPMENT
FINISHES PRESENTATION
30% CONSTRUCTION DOCUMENTS
50% CONSTRUCTION DOCUMENTS
PLAN CHECK SUBMITTAL

2/14/2018 DESIGN DEVEL FINISHES PRE- 2/15/2019 30% CONSTRI 50% CONSTRI 50% 2/29/2019 PLAN CHECK 5

SURVEY (FOR REFERENCE ONLY)



GENERAL DEMOLITION NOTES:

- 1. CONTRACTOR TO CLEAR PROJECT SITE AREA WITHIN THE CONFINES OF THE DEMOLITION LIMIT LINE. THE CONTRACTOR SHALL DEMOLISH AND REMOVE FROM THE SITE ALL EXISTING UTILITIES, STRUCTURES, PLANTERS, TREES, AND ALL OTHER SITE FEATURES, UNLESS OTHERWISE NOTED ON THE PLAN.
- 2. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS AND SHALL PAY ALL FEES NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 5. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL EXISTING ABOVE AND UNDERGROUND UTILITIES. LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND ARE SHOWN FOR GENERAL INFORMATION ONLY.
- 6. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- 7. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAINS, SANITARY SEWERS AND STREETS.
- 8. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
- 9. DEMOLITION IS LIMITED TO WITHIN DEMOLITION LIMIT LINE UNLESS NOTED OTHERWISE.
- 10. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
- 11. DEMOLITION CALLOUTS IN THIS SECTION ARE REPRESENTATIVE OF WHAT IS TO BE DONE, NOT AN ITEMIZED ACCOUNTING FOR EACH PIPE, CATCH BASIN, MANHOLE, VAULT, ETC. THAT IS TO BE DEMOLISHED, REMOVED AND DISPOSED

DEMOLITION NOTES:

PROTECT-IN-PLACE

- 1 PROTECT-IN-PLACE EXISTING CONCRETE PAVEMENT.
- PROTECT—IN—PLACE EXISTING OVERHEAD UTILITIES.
- PROTECT-IN-PLACE EXISTING BLOCK WALL.
- 4 PROTECT-IN-PLACE EXISTING LANDSCAPE AREA.
- 5 PROTECT-IN-PLACE EXISTING TRANSFORMER AND PAD.
- 6 PROTECT-IN-PLACE EXISTING WROUGHT IRON FENCE.
- 7 PROTECT-IN-PLACE EXISTING GATE.
- 8 PROTECT-IN-PLACE EXISTING STRUCTURE.
- 9 PROTECT—IN—PLACE EXISTING STAIRCASE.
- 10 PROTECT-IN-PLACE EXISTING ASPHALT PAVEMENT.
- PROTECT—IN—PLACE EXISTING PULL BOX. ADJUST TO GRADE IF NEEDED.

DEMOLISH & REMOVE

- 1 DEMOLISH & REMOVE PORTION OF EXISTING BUILDING. SEE SHEET A2.0 FOR CONTINUATION.
- 2 DEMOLISH & REMOVE EXISTING LANDSCAPE AREA.
- 3 DEMOLISH & REMOVE EXISTING CONCRETE PAVEMENT.
- 4 DEMOLISH & REMOVE EXISTING PLANTER.
- DEMOLISH & REMOVE PORTION OF EXISTING CONCRETE WALL. SEE SHEET A1.1.
- (6) DEMOLISH & REMOVE EXISTING AC UNIT.
- 7 DEMOLISH & REMOVE PORTION OF EXISTING WROUGHT IRON FENCE. SEE SHEET A1.1.
- 8 DEMOLISH & REMOVE EXISTING FENCE.
- 9 DEMOLISH & REMOVE PORTION OF EXISTING LANDSCAPE AREA FOR PROPOSED DRIVEWAY WIDENING.
- DEMOLISH & REMOVE PORTION OF EXISTING CURB AND GUTTER FOR PROPOSED DRIVEWAY WIDENING.
- 11) DEMOLISH & REMOVE EXISTING DRIVEWAY.
- 12) DEMOLISH & REMOVE EXISTING TREE.

LEGEND:

LIMIT OF WORK

— – – PROPERTY LINE

/// DEMOLITION LINE

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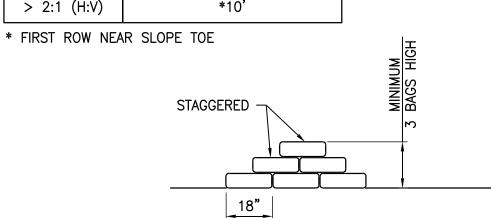
12/14/2018 01/29/2019 02/15/2019 03/11/2019 ---

DEMOLITION PLAN

C1.1

5' 10' ta

*10' > 2:1 (H:V)



1. BAG MATERIAL: BAGS SHOULD BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC, MINIMUM UNIT WEIGHT OF 4 OUNCES/YD2, MULLEN BURST STRENGTH EXCEEDING 300 LB/IN2 IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D4355.

- 2. BAG SIZE: EACH GRAVEL-FILLED BAG SHOULD HAVE A LENGTH OF 18 IN., WIDTH OF 12 IN., THICKNESS OF 3 IN., AND MASS OF APPROXIMATELY 33 LBS. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY BASED ON LOCALLY AVAILABLE MATERIALS.
- 3. FILL MATERIAL: FILL MATERIAL SHALL BE 0.5 TO 1.0 INCH CRUSHED ROCK, CLEAN AND FREE OF CLAY, ORGANIC MATTER, AND OTHER DELETERIOUS MATERIAL, OR OTHER SUITABLE OPEN-GRADED, NON-COHESIVE, POROUS GRAVEL.
- 4. TURN THE ENDS OF GRAVEL BAG BARRIER UP SLOPE TO PREVENT RUNOFF FROM GOING AROUND BARRIER.
- 5. USE PYRAMID APPROACH WHEN STACKING BAGS.

\ GRAVEL BAG BARRIER

CXXX N.T.S.

GEOTEXTILE FILTER FABRIC CRUSHED AGGREGATE - CORRUGATED $(3^{\circ}-6^{\circ})$ DIA. STONE) STEEL PANELS 2 STABILIZED CONSTRUCTION ENTRANCE CXXX N.T.S.

SPECIFIED BY A SOILS ENGINEER

CRUSHED AGGREGATE GREATER -

12" MIN. UNLESS OTHERWISE -

SPECIFIED BY A SOILS ENGINEER

THAN 3" BUT SMALLER THAN 6"

SECTION

SECTION

10'R

CORRUGATED STEEL PANELS

ORIGINAL

GRADE

- FILTER FABRIC

- 1. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
- 2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
- 3. IF A WASH RACK IS INCLUDED, A SEDIMENT TRAP OF SOME KIND MUST ALSO BE PROVIDED TO COLLECT WASH WATER RUNOFF.
- 4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE.

STREET MAINTENANCE NOTES

- 1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- 2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- 3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM

BMP NOTES:

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORMWATER QUALITY TASK FORCE, SACRAMENTO, CALIFORNIA, JULY 2012, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTORS):

EROSION CONTROL

EC1-SCHEDULING EC2-PRESERVATION OF EXISTING VEGETATION EC3-HYDRAULIC MULCH EC4-HYDROSEEDING EC5 SOIL BINDERS EC6-STRAW MULCH EC7-GEOTEXTILES AND MATS EC8-WOOD MULCHING EC9-EARTH DIKES AND DRAINAGE SWALES EC10 VELOCITY DISSIPATION DEVICES EC11 SLOPE DRAINS EC12 STREAMBANK STABILIZATION EC13-RESERVED EC14-COMPOST BLANKET EC15-SOIL PREPARATION/ROUGHENING

TEMPORARY SEDIMENT CONTROL

EC16-NON-VEGETATIVE STABILIZATION

SE1-SILT FENCE SE2-SEDIMENT BASIN SE3-SEDIMENT TRAP SE4-CHECK DAM SE5-FIBER ROLLS SE6-GRAVEL BAG BERM SE7-STREET SWEEPING AND VACUUMING SE8-SANDBAG BARRIER SE9-STRAW BALE BARRIER SE10 STORM DRAIN INLET PROTECTION SE11-ACTIVE TREATMENT SYSTEMS SE12—MANUFACTURED LINEAR SEDIMENT CONTROLS SE13 COMPOST SOCKS AND BERMS SE14-BIOFILTER BAGS

EQUIPMENT TRACKING CONTROL

TC1-STABILIZED CONSTRUCTION ENTRANCE/EXIT TC2-STABILIZED CONSTRUCTION ROADWAY TC3-ENTRANCE/OUTLET TIRE WASH

NS1-WATER CONSERVATION PRACTICES NS2-DEWATERING OPERATIONS NS3-PAVING AND GRINDING OPERATIONS NS4 TEMPORARY STREAM CROSSING NS5 CLEAR WATER DIVERSION NS6-ILLICIT CONNECTION/DISCHARGE NS7-POTABLE WATER/IRRIGATION NS8 VEHICLE AND EQUIPMENT CLEANING NS9 VEHICLE AND EQUIPMENT FUELING NS10 VEHICLE AND EQUIPMENT MAINTENANCE NS11-PILE DRIVING OPERATIONS

WIND EROSION CONTROL

WE1-WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT

NS12-CONCRETE CURING NS13-CONCRETE FINISHING NS14 MATERIAL OVER WATER NS15 DEMOLITION ADJACENT TO WATER

WASTE MANAGEMENT & MATERIALS POLLUTION CONTROL

NS16-TEMPORARY BATCH PLANTS

WM1-MATERIAL DELIVERY AND STORAGE WM2-MATERIAL USE WM3-STOCKPILE MANAGEMENT WM4-SPILL PREVENTION AND CONTROL WM5-SOLID WASTE MANAGEMENT WM6-HAZARDOUS WASTE MANAGEMENT WM7-CONTAMINATED SOIL MANAGEMENT WM8-CONCRETE WASTE MANAGEMENT WM9-SANITARY/SEPTIC WASTE MANAGEMENT WM10-LIQUID WASTE MANAGEMENT

EROSION CONTROL NOTES:

- TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE GRADING PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES TO MEET "AS GRADED" CONDITIONS.
- 2. ALL LOOSE SOIL AND DEBRIS SHALL BE REMOVED FROM THE STREET AREAS UPON STARTING OPERATIONS AND PERIODICALLY THEREAFTER AS DIRECTED BY THE **INSPECTOR**
- WHEN THE INSPECTOR SO DIRECTS, A 12-INCH BERM SHALL BE MAINTAINED ALONG THE TOP OF THE SLOPE OF THOSE FILLS ON WHICH GRADING IS NOT IN PROGRESS.
- 4. STORM AND SEWER DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLET DIKES SHALL BE PLUGGED WITH SANDBAGS.
- 5. EXCEPT WHEN THE INSPECTOR DIRECTS OTHERWISE, ALL DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS FORECAST, AND SHALL BE MAINTAINED DURING THE RAINY SEASON (OCTOBER 15 TO APRIL 15).
- 6. SANDBAGS SHALL BE STOCKPILED ON SITE, READY TO BE PLACED IN POSITION WHEN RAIN IS FORECAST, OR WHEN THE INSPECTOR SO DIRECTS.
- 7. A "STANDBY EMERGENCY CREW" SHALL BE ALERTED BY THE PERMITTEE OR THE CONTRACTOR TO PERFORM EMERGENCY WORK DURING RAINSTORMS. THE PARTY TO BE CONTACTED IS: ______ (TO BE FILLED IN BY CONTRACTOR)

PHONE NUMBER:

- 1. DUST SHALL BE CONTROLLED BY WATERING AND/OR APPLYING A DUST PALLIATIVE. THE DUST PALLIATIVE SHALL BE APPLIED IN THE AMOUNT AT THE LOCATIONS AS DIRECTED BY THE ENGINEER.
- 2. WATER FOR DUST CONTROL SHALL BE APPLIED BY MEANS OF PRESSURE TYPE DISTRIBUTORS OR PIPE LINES EQUIPPED WITH A SPRAY SYSTEM OR HOSES WITH NOZZLES THAT WILL ENSURE A UNIFORM APPLICATION OF WATER.
- 3. UNLESS WATER IS APPLIED BY MEANS OF PIPE LINES, AT LEAST ONE MOBILE UNIT WITH A MINIMUM CAPACITY OF 100 GALLONS SHALL BE AVAILABLE FOR APPLYING
- 4. ALL SOIL MATERIALS OR DEBRIS TRUCKED FROM THE SITE SHALL BE COVERED AND SPRINKLED PRIOR TO ENTERING PUBLIC STREETS.
- 5. PROVIDE FOR WET SUPPRESSION OR CHEMICAL STABILIZING OF EXPOSED SOILS.
- 6. PROVIDE FOR RAPID CLEAN-UP OF SEDIMENTS DEPOSITED ON THE PAVED ROADS.
- 7. LIMIT THE AMOUNT OF AREAS DISTURBED BY CLEARING & EARTH MOVING OPERATIONS BY SCHEDULING THESE ACTIVITIES IN PHASES.

EROSION CONTROL NOTES:

DUST CONTROL NOTES:

- (E1) PLACE GRAVEL BAGS TRIPLE ROW PER DETAIL 1, HEREON.
- E2) STABILIZED CONSTRUCTION ENTRANCE PER DETAIL 2, HEREON

LEGEND

LIMIT OF WORK

PROPERTY LINE



PROTECT TREE IN PLACE

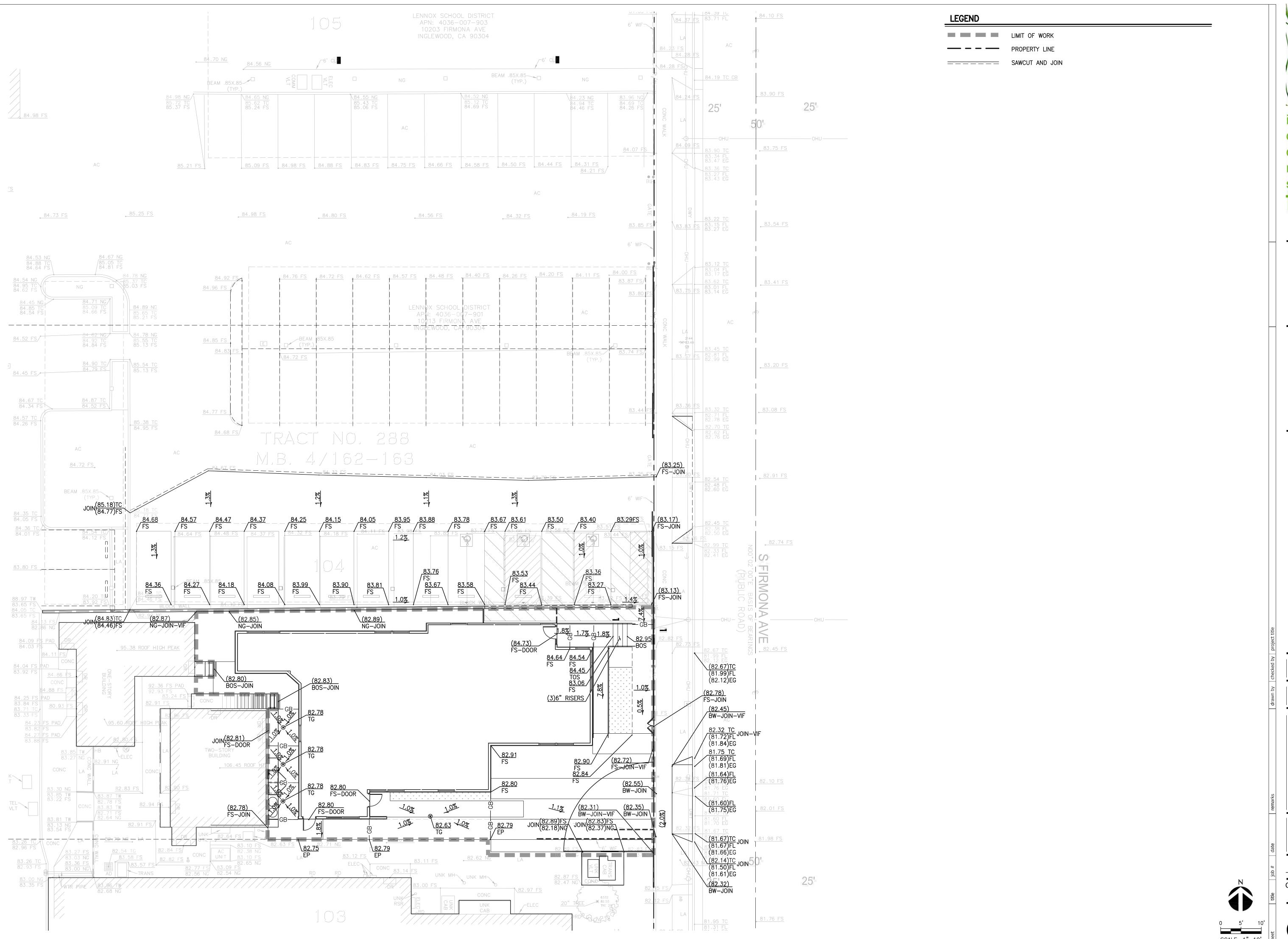


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EROSION CONTROL PLAN





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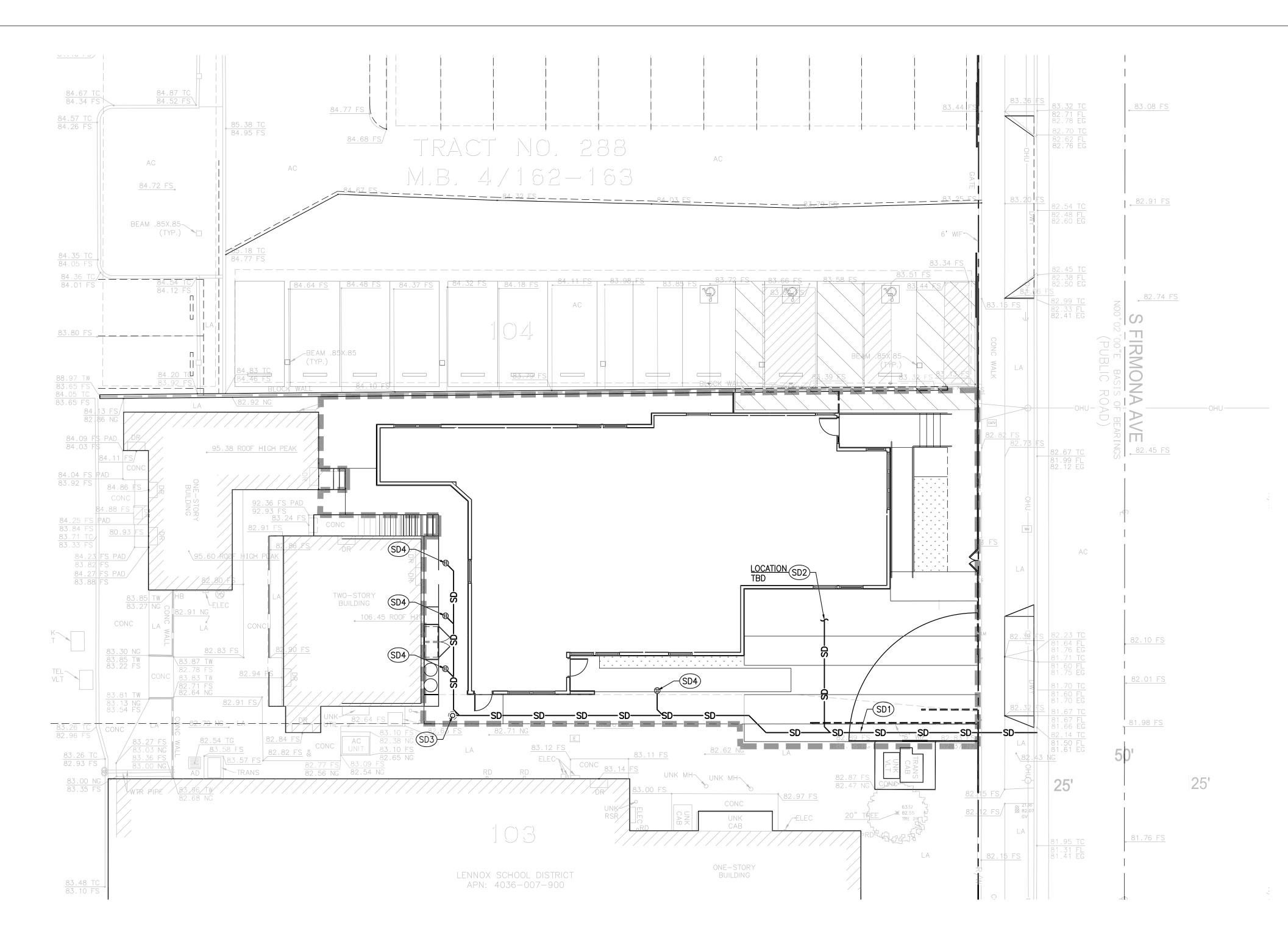
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 DESIGN DEVELOPMENT
 GI

— GRADING PLAN

C1.3



IRRIGATION WATER METER, LINES AND APPURTENANCES BY OTHERS.

ALL BMP'S PROPOSED AS A PART OF THIS PROJECT ARE TO BE INSPECTED BY THE ENGINEER OF RECORD AFTER INSTALLATION AND PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY.

PRIOR TO THE INSTALLATION OF ALL STORM DRAIN AND SEWER MAIN LINE CONNECTIONS, THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF THE MAIN LINE. IF CONDITIONS DIFFER FROM THOSE ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITION HAS BEEN EVALUATED.

UTILITY CONSTRUCTION NOTES:

STORM DRAIN

- SD1) PVC, SDR-35 STORM DRAIN PIPE PER DETAIL 1, SHEET C5.0. SIZE AND SLOPE PER PLAN.
- (SD2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (SD3) CLEANOUT. PER DETAIL 2, SHEET C5.0.
- (SD4) AREA DRAIN, PER DETAIL 3, SHEET C5.0.
- (SD5) PRECAST CONCRETE CATCH BASIN. JENSEN PRECAST PRODUCTS OR APPROVED EQUIVALENT. SIZE AND GRATE BEARING TYPE PER PLAN.
- (SD6) STORMWATER TREATMENT UNIT. PER DETAIL [___], SHEET [___].

SANITARY SEWER

- SS1) PVC, SDR-35 SANITARY SEWER PIPE PER DETAIL [____]. SIZE AND SLOPE PER PLAN.
- POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (SS3) CLEANOUT. PER DETAIL [___], SHEET [___].
- (\$\$4) PRECAST CONCRETE MANHOLE PER APWA STANDARD PLAN 200-2.

DOMESTIC WATER

- (W1) PVC C-900 DOMESTIC WATER PIPE PER DETAIL [___], SHEET [___]. SIZE PER PLAN.
- (W2) POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- (W3) BACKFLOW PREVENTION DEVICE. PER DETAIL [___], SHEET [___].
- (W4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.

FIRE WATER

- F1 PVC C-900 FIRE WATER PIPE PER DETAIL [___], SHEET [___]. SIZE AND MATERIAL PER PLAN.
- POINT OF CONNECTION 5 FEET FROM BUILDING FACE. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- F3 BACKFLOW PREVENTION DEVICE. PER DETAIL [___], SHEET [___].
- (F4) WATER METER VAULT. INSTALLATION BY [LOCAL WATER PROVIDER, CONTRACTOR]. SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR TO COORDINATE FIRE WATER SERVICE CONNECTION WITH LOCAL PROVIDER.
- (F5) FIRE HYDRANT. PER DETAIL [___], SHEET [___].
- (F6) FIRE DEPARTMENT CONNECTION.
- (F7) POST INDICATOR VALVE.

OTHER UTILITIES

- U1 ELECTRICAL CONDUIT. SEE ELECTRICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- (U2) GAS LINE. SEE GAS COMPANY DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.
- MECHANICAL LINE. SEE MECHANICAL DRAWINGS FOR DETAILS AND SPECIFICATIONS. SHOWN FOR COORDINATION PURPOSES ONLY.

LEGEND:

	LIMIT OF WORK
	PROPERTY LINE
<u>ss</u>	SANITARY SEWER
w	WATER
DW	DOMESTIC WATER
FW	FIRE WATER
——SD——	STORM DRAIN
——-G——	GAS
——Е——	ELECTRIC
T	TELEPHONE
	PERFORATED PIPE
•	POINT OF CONNECTION
	COORDINATION POINT
	CAP OR PLUG
	UTILITY MANHOLE
(\widehat{o})	UTILITY CLEANOUT

STORM DRAIN INLET

TRENCH DRAIN

FIRE HYDRANT

THRUST BLOCK

WATER VALVE

BACKFLOW ASSEMBLY

UTILITY METER VAULT

AREA DRAIN/PLANTER DRAIN

POST INDICATOR VALVE (PIV)

FIRE DEPARTMENT CONNECTION (FDC)

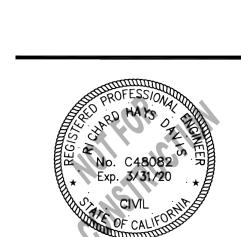
UTILITY PLAN



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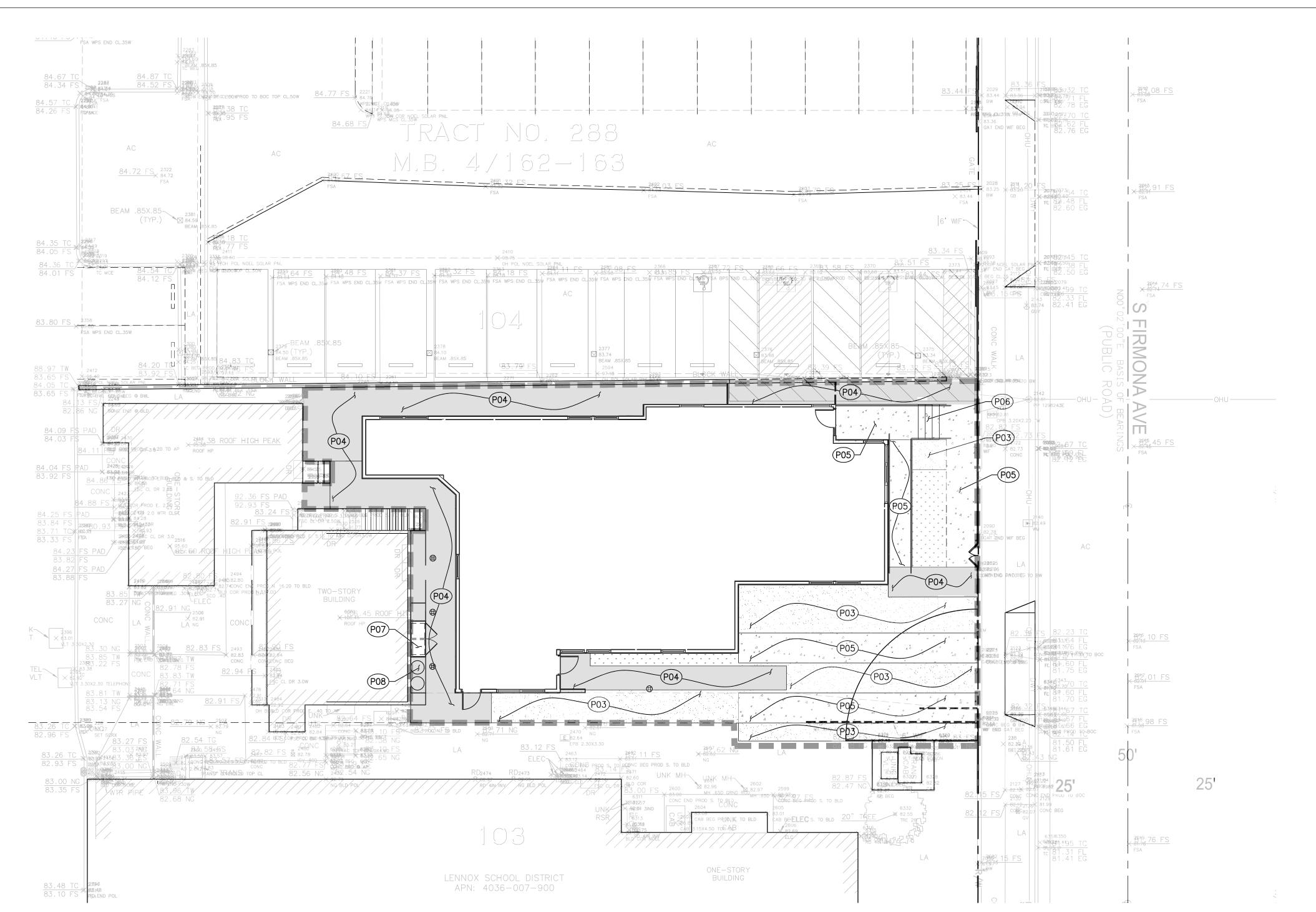
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PAVING CONSTRUCTION NOTES

- (P01) CONCRETE CURB. PER DETAIL X, SHEET C5.X.
- PO2) CONCRETE CURB AND GUTTER. PER DETAILX, SHEET C5.X.
- (P03) DECOMPOSED GRANITE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- PO4) ASPHALT CONCRETE PAVEMENT. PER DETAIL X, SHEET C5.X.
- (PO5) CONCRETE PAVEMENT. PER DETAIL 4 ON SHEET C5.0.
- (P06) STAIRS. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (P07) WATER HEATER ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (P08) WASTE ENCLOSURE. SEE ARCHITECTURAL PLANS FOR DETAILS.

LEGEND

PROPERTY LINE CONCRETE PAVING (REFER TO SHEET C5.0 FOR DETAILS) (REFER TO SHEET [CX.XX] FOR DETAILS) DECOMPOSED GRANITE (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

PLANTER AREA/LANDSCAPE (REFER TO LANDSCAPING PLANS FOR DETAILS)

NOTE TO CONTRACTOR/CONSTRUCTION SURVEYOR:

CONSTRUCTION STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR. CONSTRUCTION STAKING SURVEYOR SHALL BE RESPONSIBLE FOR COORDINATION OF THESE PLANS WITH SOURCE DRAWINGS PREPARED BY ARCHITECT, LANDSCAPE ARCHITECT, STRUCTURAL ENGINEER, MEP CONSULTANT AND ANY OTHER DISCIPLINE PRIOR TO START OF STAKING AND CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED.

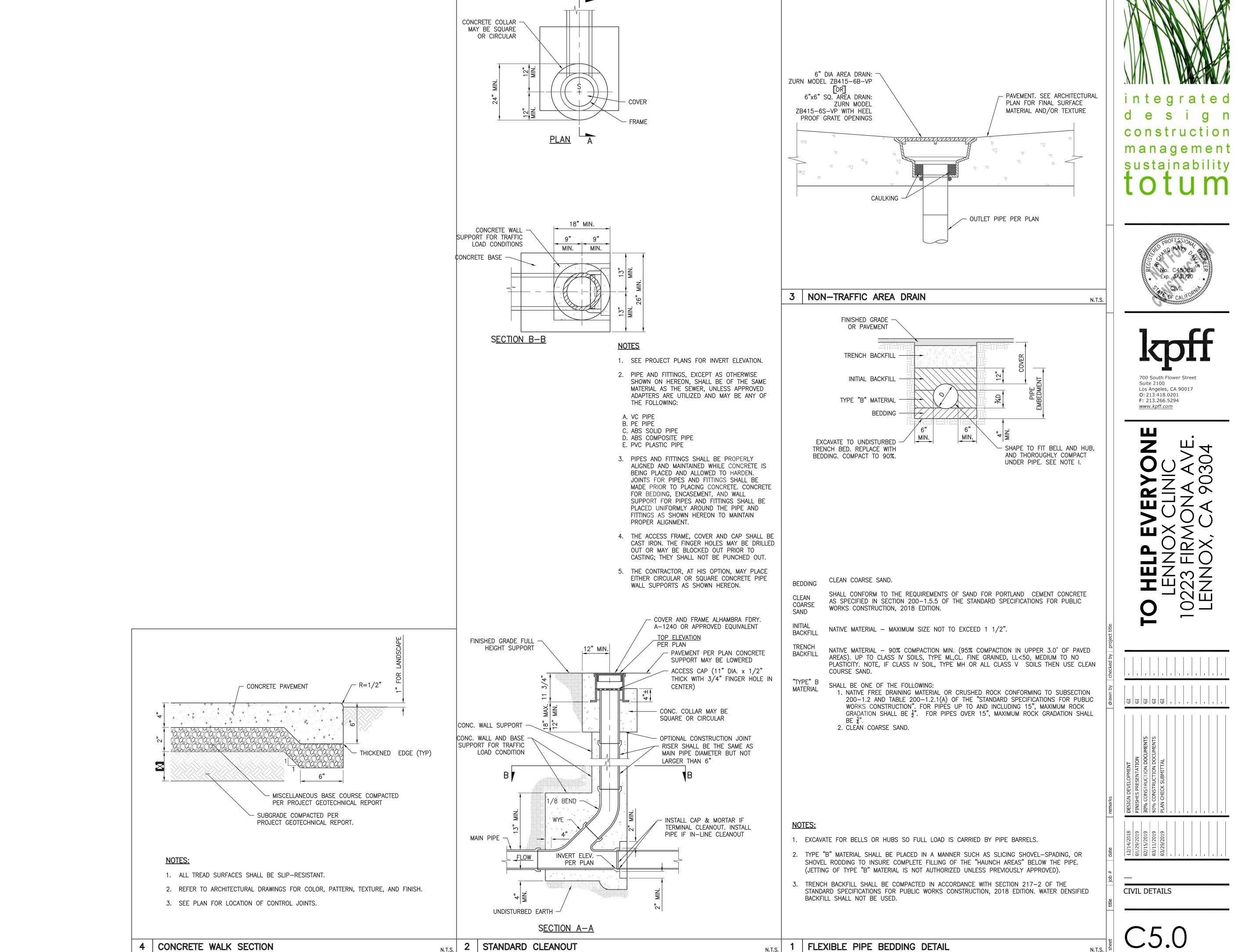


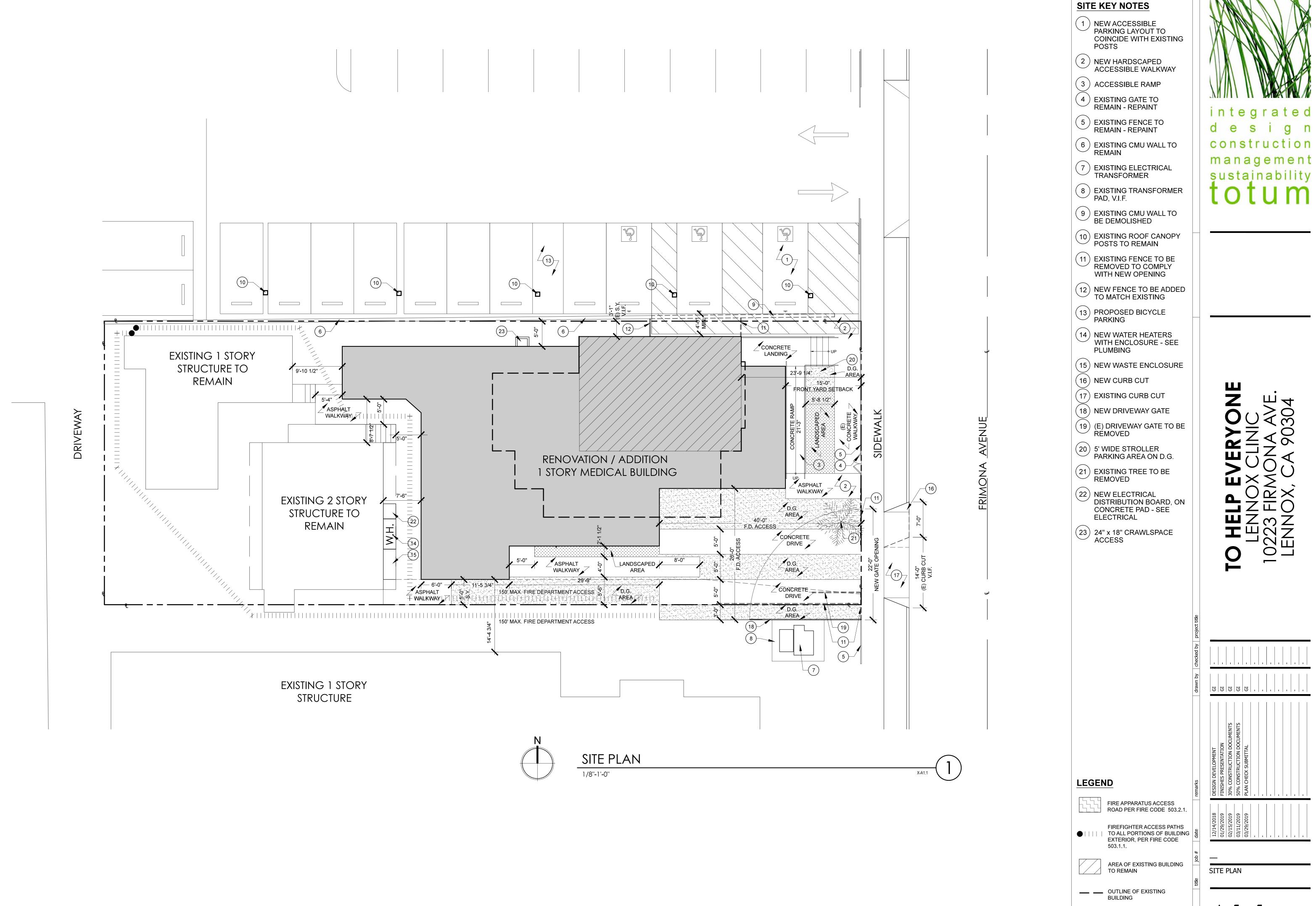
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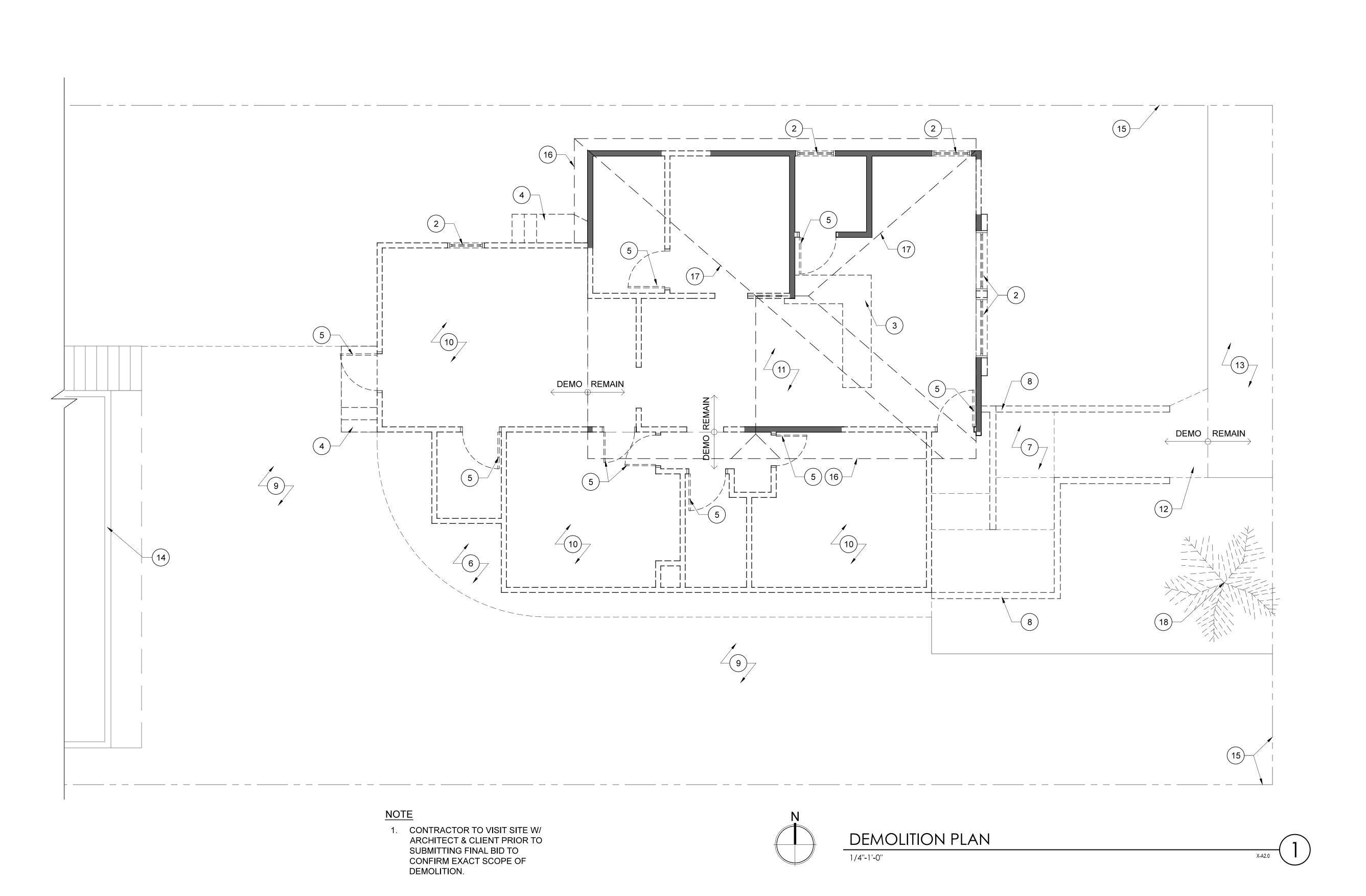


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PAVING PLAN







DEMOLITION KEY NOTES

- 1 NOT USED
- (E) WINDOW, GLAZING, AND FRAMES TO BE REMOVED
- (E) MILLWORK TO BE REMOVED
- (E) EXTERIOR STEPS TO BE DEMOLISHED
- (E) DOOR, FRAME, AND HARDWARE TO BE REMOVED
- 6 (E) LANDSCAPING PLANTER TO BE REMOVED
- 7 (E) CONCRETE RAMP TO BE REMOVED
- 8 (E) STAIR, LANDINGS, WALLS, GUARDRAILS, ETC. TO E REMOVED
- 9 (E) CONCRETE DRIVEWAY TO BE REMOVED AS REQUIRED FOR NEW ADDITION
- (E) FLOOR STRUCTURE TO BE DEMOLISHED
- (E) FLOOR STRUCTURE TO REMAIN
- (E) WALKWAY TO BE DEMOLISHED AS REQUIRED BY NEW HARDSCAPE LAYOUT
- (13) (E) WALKWAY TO REMAIN
- (14) (E) BUILDING TO REMAIN
- (E) SITE BOUNDARY, SEE A1.1 SITE PLAN FOR MORE SITE RELATED DEMOLITION INFORMATION
- 16 EXTENT OF EXISTING ROOF TO REMAIN
- 17 EXISTING ROOF ABOVE TO REMAIN, SHORE UP AS REQUIRED
- 18 EXISTING TREE TO BE REMOVED

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10223 FIRMONA AVE.

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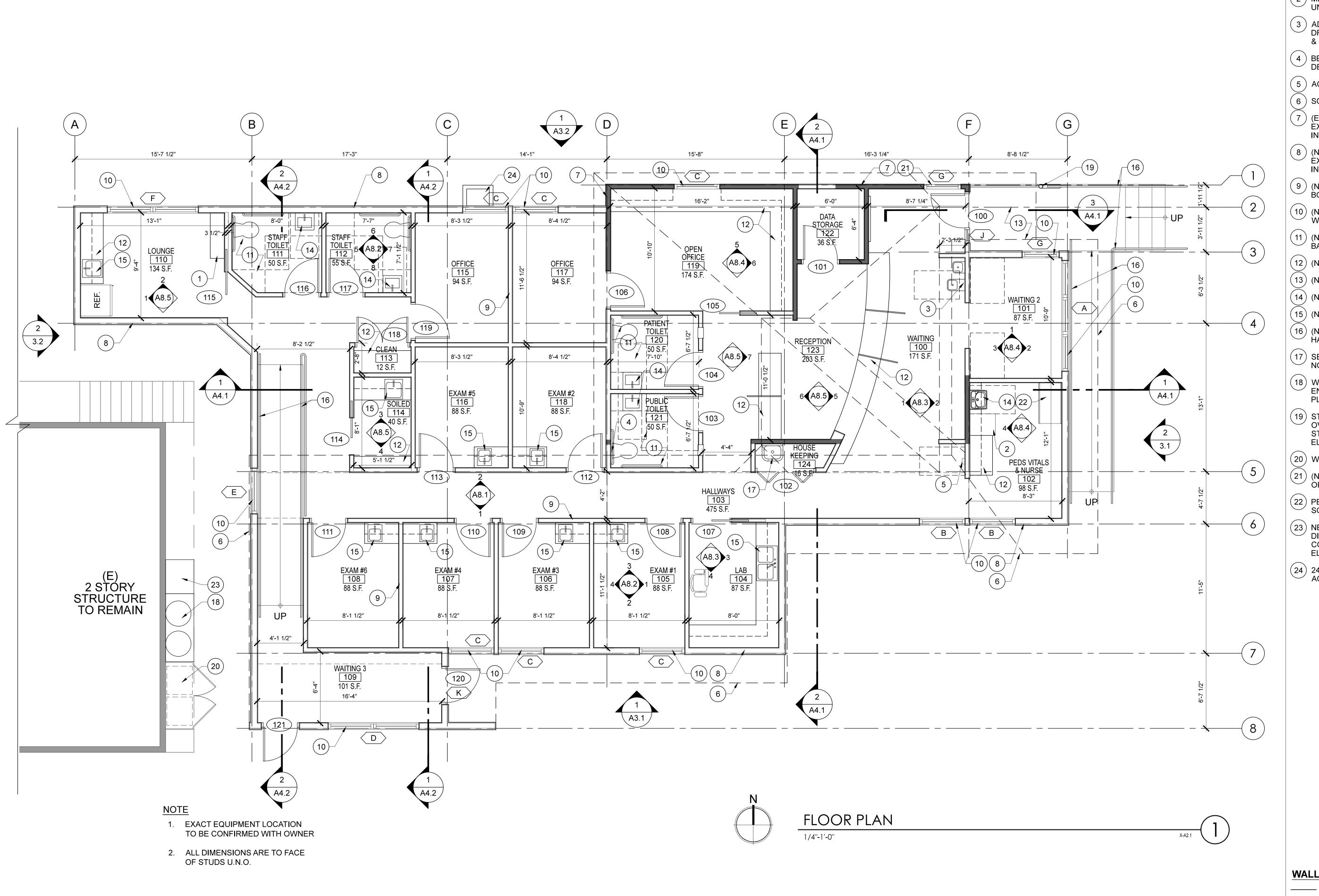
WALL LEGEND

EXISTING
CONSTRUCTION TO BE
DEMOLISHED

EXISTING WALL TO REMAIN

DEMOLITION PLAN

A2.0



PLAN KEY NOTES

- 1 EMPLOYEE STORAGE
- 2 MEDICATION DISPENSING
- 3 ADA ACCESSIBLE DRINKING FOUNTAIN HIGH & LOW - SEE 3/A0.5
- 4 BED-PAN FLASHING DEVICE
- (5) ACCESSIBLE TELEPHONE
- (6) SOFFIT / ROOF ABOVE
- 7 (E) 2X4 STUDS W/ STUCCO EXTERIOR & GYP. BOARD INTERIOR, TYPICAL
- 8 (N) 2X6 STUDS W/ STUCCO EXTERIOR & GYP. BOARD INTERIOR, TYPICAL
- 9 (N) 2X4 STUDS & GYP. BOARD WALL, TYPICAL
- (N) ALUMINUM FRAMED WINDOW
- (N) ADA ACCESSIBLE BATHROOM
- (12) (N) BUILT-IN MILLWORK
- (13) (N) CONCRETE WALKWAY
- (14) (N) WALL-HUNG SINK
- (15) (N) SINK CABINET
- (16) (N) PAINTED STEEL HANDRAIL / GUARDRAIL
- 17) SERVICE SINK -NOT ADA COMPLIANT
- 18) WATER HEATERS WITH ENCLOSURE SEE PLUMBING
- 19) STEEL POST FOR ROOF OVERHANG, SEE STRUCTURAL, SEE ELEVATIONS
- (20) WASTE ENCLOSURE
- (N) WINDOW IN EXISTING OPENING
- PEDIATRIC EXAM TABLE W/ SCALE
- 23 NEW ELECTRICAL DISTRIBUTION BOARD, ON CONCRETE PAD - SEE ELECTRICAL
- 24" X 18" CRAWLSPACE ACCESS



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WALL LEGEND

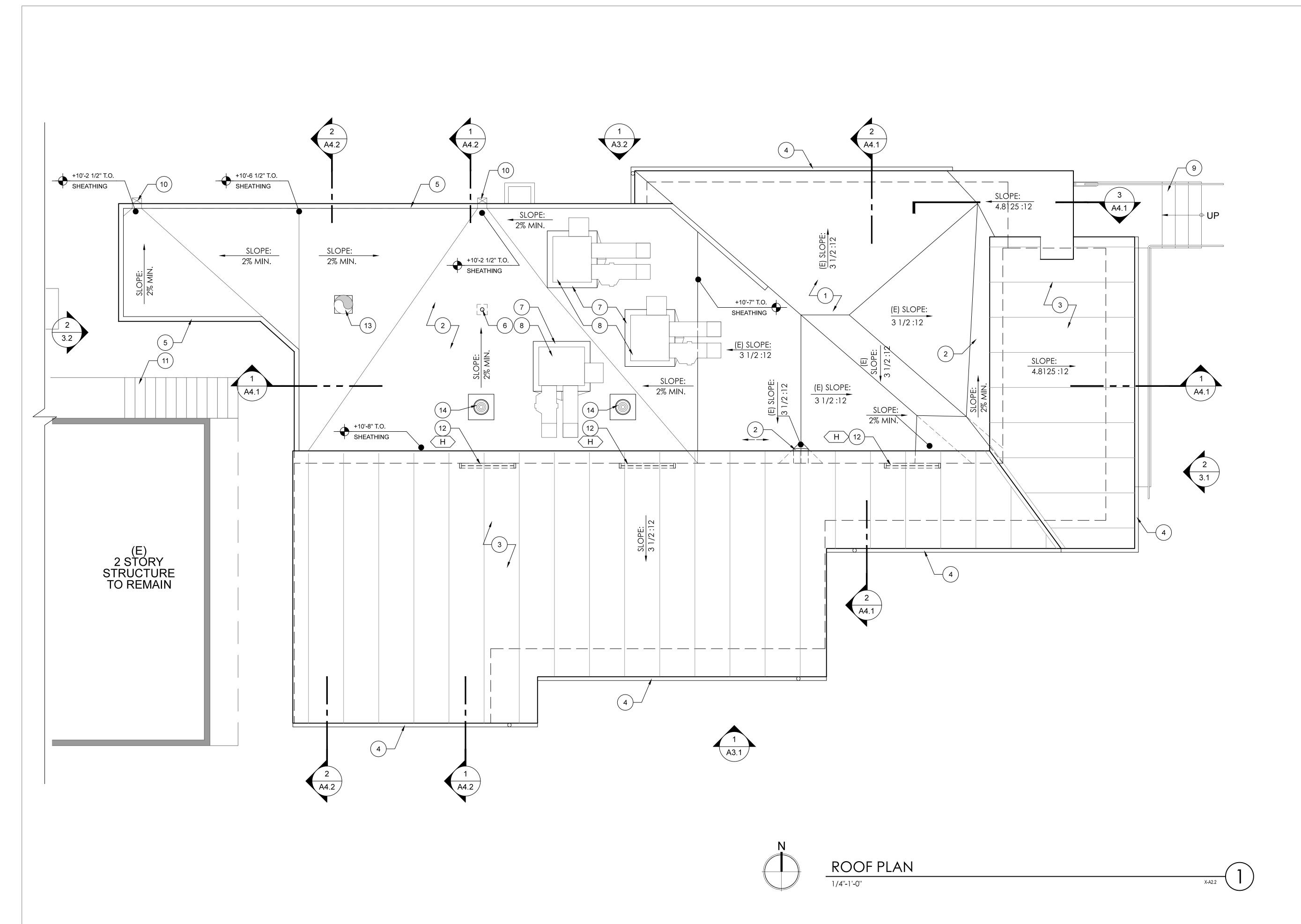
EXTERIOR WALL (2X6)

INTERIOR WALL (2X4)

EXISTING WALL TO REMAIN

A2.1

FLOOR PLAN



ROOF KEY NOTES

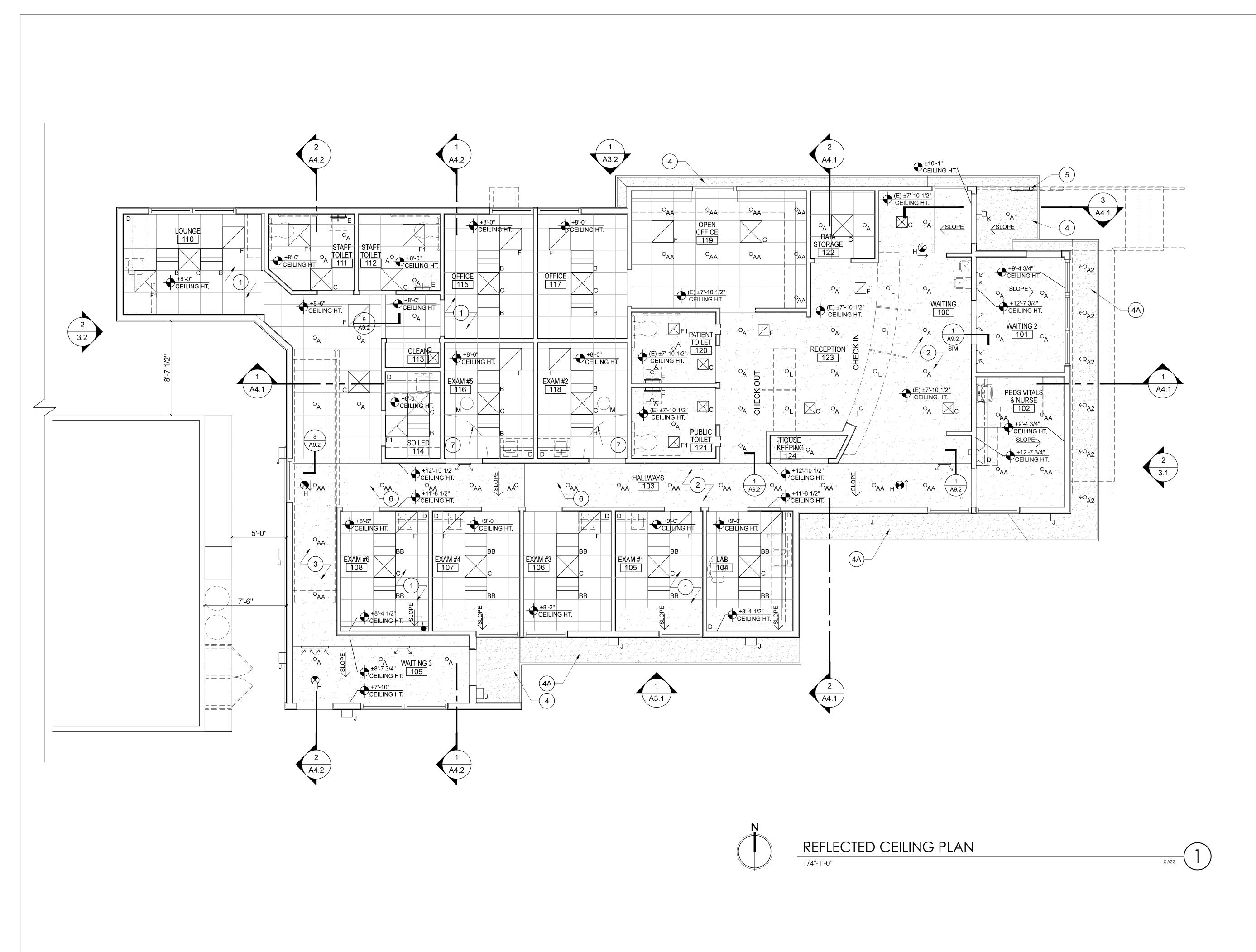
- 1 EXISTING ROOF, ASPHALT SHINGLES TO BE REPLACED
- 2 CLASS "A" SINGLE PLY PVC ROOFING, 2% MIN. SLOPE
- 3 CLASS "A" METAL ROOFING
- 4 GUTTER
- 5 PARAPET WITH PAINTED METAL TRIM CAP
- 6 FALL ARREST ANCHORAGE
- 7 BUILT UP MECHANICAL EQUIPMENT PLATFORM
- 8 MECHANICAL EQUIPMENT-SEE MECHANICAL
- 9 NEW EXTERIOR STAIR BELOW
- 10 DRAIN / DOWNSPOUT /
 OVERFLOW
 SCUPPER-DOWNSPOUTS
 INTO FLOW THROUGH LID PLANTER
- (11) EXISTING STAIR BELOW
- 12 CLEARSTORY WINDOWS BELOW, SEE 2/A8.1
- 13 EXHAUST FAN SEE MECHANICAL
- (14) 14"Ø TUBULAR SKYLIGHT



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ROOF PLAN

A2.2



RCP KEY NOTES

- 1 2' X 2' ACOUSTIC CEILING TILES
- 2 PAINTED GYP. BOARD CEILING
- 3 SOFFIT FOR MECHANICAL DUCTS
- 4 STUCCO SOFFIT FINISH COLOR A
- 4A) STUCCO SOFFIT FINISH COLOR B
- 5 STEEL POST FOR ROOF OVERHANG, SEE STRUCTURAL
- 6 EXPOSED MECHANICAL DUCTS ENCLOSED IN PAINTED METAL JACKET
- 7 CEILING MOUNTED CURTAINS, N.I.C.

LEGEND

- A O LUM-TECH 6" LED 14W
 RECESSED DOWNLIGHT
 LEDH-CFK6-14-8-30-UZTD
 -LEDT-R64-WH, OR
 LITHONIA 6" LDN6
 RECESSED DOWNLIGHT
 LDN6-30/15-LO6WR-
- AA O LUM-TECH 6" LED 23W
 RECESSED DOWNLIGHT
 LEDH-CFK6-23-8-30-UZTD
 -LEDT-R64-WH, OR
 LITHONIA 6" LDN6
 RECESSED DOWNLIGHT
 LDN6-30/25-LO6WR-
- A1 O LUM-TECH 6" LED
 RECESSED DOWNLIGHT
 EXT. APPROVED, OR
 LITHONIA 6" LDN6
 RECESSED DOWNLIGHT
 LDN6-30/15-LO6WR---WL
- A2 OH LUM-TECH 6" LED
 RECESSED DOWNLIGHT
 WALL-WASH
 EXT. APPROVED, OR
 LITHONIA 6" LDN6
 RECESSED WALL-WASH
 LDN6-30/15-LW6WR-- WL
- B 24" X 24" WILLIAMS AT1
 FIXTURE
 AT1-22-L40/835-DIM-UNV
 OR
 24"X24" LITHONIA 2FSL2
 2FSL-40L-EZ1-LP835
- BB 24" X 24" WILLIAMS AT1
 FIXTURE
 AT1-22-L50/835-DIM-UNV
 OR
 24"X24" LITHONIA 2FSL2
- 2FSL-40L-EZ1-LP835

 C FLAT PANEL DIFFUSER
- D UNDER-CABINET
 - LIGHTING

 SSL UNDERLINE EDGE

 UNLE VARIES- 3K-WH

 (OR ALTERNATE)
- E MIRROR-LUX ADA
 MIRROR WITH LIGHTS
 MLWC4018
- F RETURN AIR GRILLE
- F1 EXHAUST AIR GRILLE
 H EXIT SIGN
- J WALL-SCONCE,
- WALL-SCONCE,
 WET-LOCATION
 FC LIGHTING,
 FCW1011LED
 (OR ALTERNATE)
- K –□ WALL-SCONCE, TBD
- L O LUM-TECH 3" LED

 RECESSED DOWNLIGHT

 DLED9531-14-UZTD
 TML2341ST-14-8-35-M-WH

 (OR ALTERNATE)
- 14" Ø SOLATUBE TUBULAR SKYLIGHT

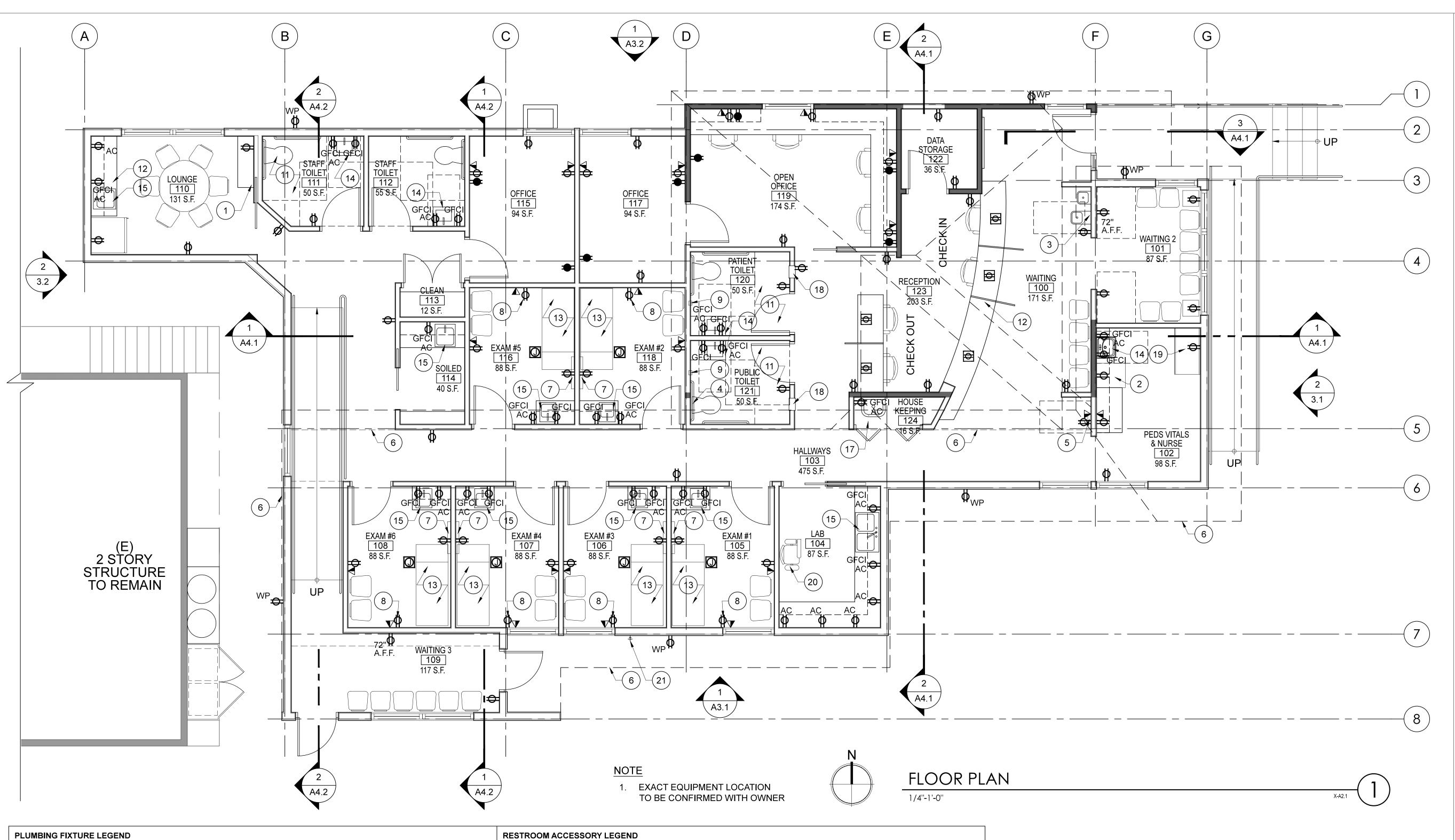
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REFLECTED CEILING PLAN



PLUMBING F	IXTURE LEGEND						RESTROO	M ACCESSORY LEGE	ND				
LOCATION	TYPE FIXTURE	MODEL#	MFR.	FINISH	COLOR	NOTES	LOCATION	TYPE FIXTURE	MODEL #	MFR.	FINISH	COLOR	NOTES
RESTROOMS #111	1 TOILET WITH 1.1GF	PF AMERICAN STANDARD 2467.100 CADET FLOWISE	AMERICAN STANDARD	_	WHITE	HIGH EFFICIENCY ADA COMPLIANT	RESTROOMS #111	A-1 TOILET TISSUE DISPENSER	B-2888 CLASSIC SERIES - SURFACE MTD. MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
#112 #120	2 LAVATORY	KOHLER - K-2084-N SOHO - WALL-HUNG SINK	KOHLER	_	WHITE	ADA COMPLIANT	#112	A-2 SEAT-COVER DISPENSER	B-221 CLASSIC SERIES - SURFACE MTD. SEAT-COVER DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
	3 FAUCET	AMERICAN STANDARD - SELECTRONIC SINGLE HOLE - 6055.104	AMERICAN STANDARD	-	CHROME	ADA COMPLIANT PLUG-IN		A-3 SOAP DISPENSER	B-2111 SURFACE MTD SOAP DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
RESTROOM #121	4 TOILET	HIGHCLIFF ULTRA K-96057-L	KOHLER	_	WHITE	ADA COMPLIANT		A-4 GRAB BAR	B-5806 SERIES 1 1/4 " DIM. GRAB BAR WITH SNAP FLANGE (36" LONG @ BACK OF TOILET)	BOBRICK	SATIN		STAINLESS STEEL
	5 BEDPAN WASHER	BEDPAN WASHER DIVERTER KIT 6047.820.002	AMERICAN STANDARD	-	CHROME	ADA COMPLIANT		A-5 GRAB BAR	B-5806 SERIES 1 1/4 " DIM. GRAB BAR WITH SNAP FLANGE (42" LONG @ SIDE OF TOILET)	BOBRICK	SATIN		STAINLESS STEEL
								A-6 PAPER TOWEL DISPENSER &	B-3699 CLASSIC SERIES - SURFACE MTD. PAPER TOWEL DISPENSER AND WASTE	BOBRICK	SATIN		STAINLESS STEEL
	6 LAVATORY	KOHLER - K-2084-N SOHO - WALL-HUNG SINK	KOHLER		WHITE			WASTE RECEPTACLE	RECEPTACLE				
	7 FAUCET	AMERICAN STANDARD - SELECTRONIC SINGLE HOLE - 6055.104	AMERICAN STANDARD		CHROME	ADA COMPLIANT PLUG-IN							
MEDICAL EXAM RM	8 LAVATORY	SINGLE BOWL SBL-ADA-1815-A-GR (1 HOLE CENTERED)	JUST MANUFACTURING COMPANY	-	SS	ADA COMPLIANT	RESTROOMS #120	A-1 TOILET TISSUE DISPENSER	B-2888 CLASSIC SERIES - SURFACE MTD. MULTI-ROLL TOILET TISSUE DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
#105 - 108, 116 & 118	9 FAUCET	AMERICAN STANDARD - SELECTRONIC SINGLE HOLE - 6055.104	AMERICAN STANDARD		CHROME	ADA COMPLIANT PLUG-IN	#121	A-2 SEAT-COVER DISPENSER	B-221 CLASSIC SERIES - SURFACE MTD. SEAT-COVER DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
NURSE STATION #102	10 SINK	WALL-MOUNT HANDWASH SINK WITH SENSOR FAUCET A-544-912-S	JUST MANUFACTURING COMPANY		SS	ADA COMPLIANT PLUG-IN		A-3 SOAP DISPENSER	B-2111 SURFACE MTD SOAP DISPENSER	BOBRICK	SATIN		STAINLESS STEEL
SOILED #114	11 SINK	SINGLE BOWL (3 HOLES ON 4" CENTERS) SL-2119-A-GR	JUST MANUFACTURING COMPANY		SS			A-4 GRAB BAR	B-5806 SERIES 1 1/4 " DIM. GRAB BAR WITH SNAP FLANGE (36" LONG @ BACK OF TOILET)	BOBRICK	SATIN		STAINLESS STEEL
	12 FAUCET	JMC J-1174-KS	JUST MANUFACTURING COMPANY		CHROME	ADA COMPLIANT		A-5 GRAB BAR	B-5806 SERIES 1 1/4 " DIM. GRAB BAR WITH SNAP FLANGE (42" LONG @ SIDE OF TOILET)	BOBRICK	SATIN		STAINLESS STEEL
MEDICAL LAB #104	13 SINK	DOUBLE BOWL SINK DLN-2137-A-GR	JUST MANUFACTURING COMPANY		SS			A-6 PAPER TOWEL DISPENSER &	B-3699 CLASSIC SERIES - SURFACE MTD. PAPER TOWEL DISPENSER AND WASTE	BOBRICK	SATIN		STAINLESS STEEL
	14 FAUCET	JMC J-1174-KS	JUST MANUFACTURING COMPANY		CHROME	ADA COMPLIANT		WASTE RECEPTACLE	RECEPTACLE				
	14B EYEWASH FAUCET MOUNT	JMC JG-1100	JUST MANUFACTURING COMPANY		CHROME			A-7 NOT USED					
HOUSEKEEPING #124	15 SINK	BANNON K-6718	KOHLER		WHITE			A-8 BABY CHANGING STATION	KB200 HORIZONTAL WALL MOUNTED BABY CHANGING STATION	KOALA KARE		T.B.D.	
	16 FAUCET	897-RCF	CHICAGO FAUCETS		CHROME			A-9 SPECIMEN PASS-THROUGH	B-505 RECESSED SPECIMEN PASS-THROUGH CABINET	BOBRICK	SATIN		STAINLESS STEEL
WAITING RM. #100	FOUNTAIN	LZ(S)TL8	ELKAY		TBD	ADA COMPLIANT							
STAFF LOUNGE #110	18 SINK	SINGLE BOWL (1 HOLE CENTERED) SL-2119-A-GR	JUST MANUFACTURING COMPANY		SS	ADA COMPLIANT							
	19 FAUCET	OLETTO KPF-2620	KRAUS		CHROME	ADA COMPLIANT							

PLAN KEY NOTES

- (1) EMPLOYEE STORAGE
- 2 MEDICATION DISPENSING UNIT
- (3) ADA ACCESSIBLE DRINKING FOUNTAIN HIGH & LOW - SEE 3/A0.5
- (4) BED-PAN FLASHING DEVICE
- (5) ACCESSIBLE TELEPHONE
- (6) SOFFIT/ROOF ABOVE
- (7) WALL MTD VITALS STATION
- (8) FOR ELECTRONIC MEDICAL RECORDS STATION
- (9) NURSE CALL STATION
- (10) NOT USED
- (11) (N) ADA ACCESSIBLE BATHROOM
- (12) (N) BUILT-IN MILLWORK
- (13) EXAM TABLE
- (14) (N) WALL-HUNG SINK
- (15) (N) SINK CABINET
- (16) NOT USED
- (17) SERVICE SINK -NOT ADA COMPLIANT
- (18) SPECIMEN PASS-THROUGH CABINET (SEE RESTROOM ACCESSORY LEGEND A-9)
- 19 PEDIATRIC EXAM TABLE W/ SCALE
- (20) BLOOD DRAW CHAIR
- (21) HOSE BIB SEE PLUMBING

ELECTRICAL LEGEND

- DUPLEX RECEPTACLE +18" A.F.F U.O.N.
- ♣ QUADRUPLEX RECEPTACLE +18" A.F.F. (U.O.N.)
- MTD. ABOVE COUNTER
- GFCI CROUND FAULT CIRCUIT GROUND FAULT CIRCUIT INTERRUPTER +18" A.F.F. (U.O.N.)
- WP

 DUPLEX RECEPTACLE -OUTDOOR +18"A.F.F. (U.O.N.) - LOCKABLE
- DUPLEX RECEPTACLE -DEDICATED CIRCUIT +18"A.F.F. (U.O.N.)
- DUPLEX RECEPTACLE -**FULLY SWITCHED** +18"A.F.F. (U.O.N.)
- DUPLEX RECEPTACLE -DEDICATED CIRCUIT -FLOOR MTD.
- DUPLEX RECEPTACLE -FLOOR MTD.
- △ COMBINATION TELE / DATA OUTLET
- JUNCTION BOX
- RECESSED FLOOR JUNCTION BOX

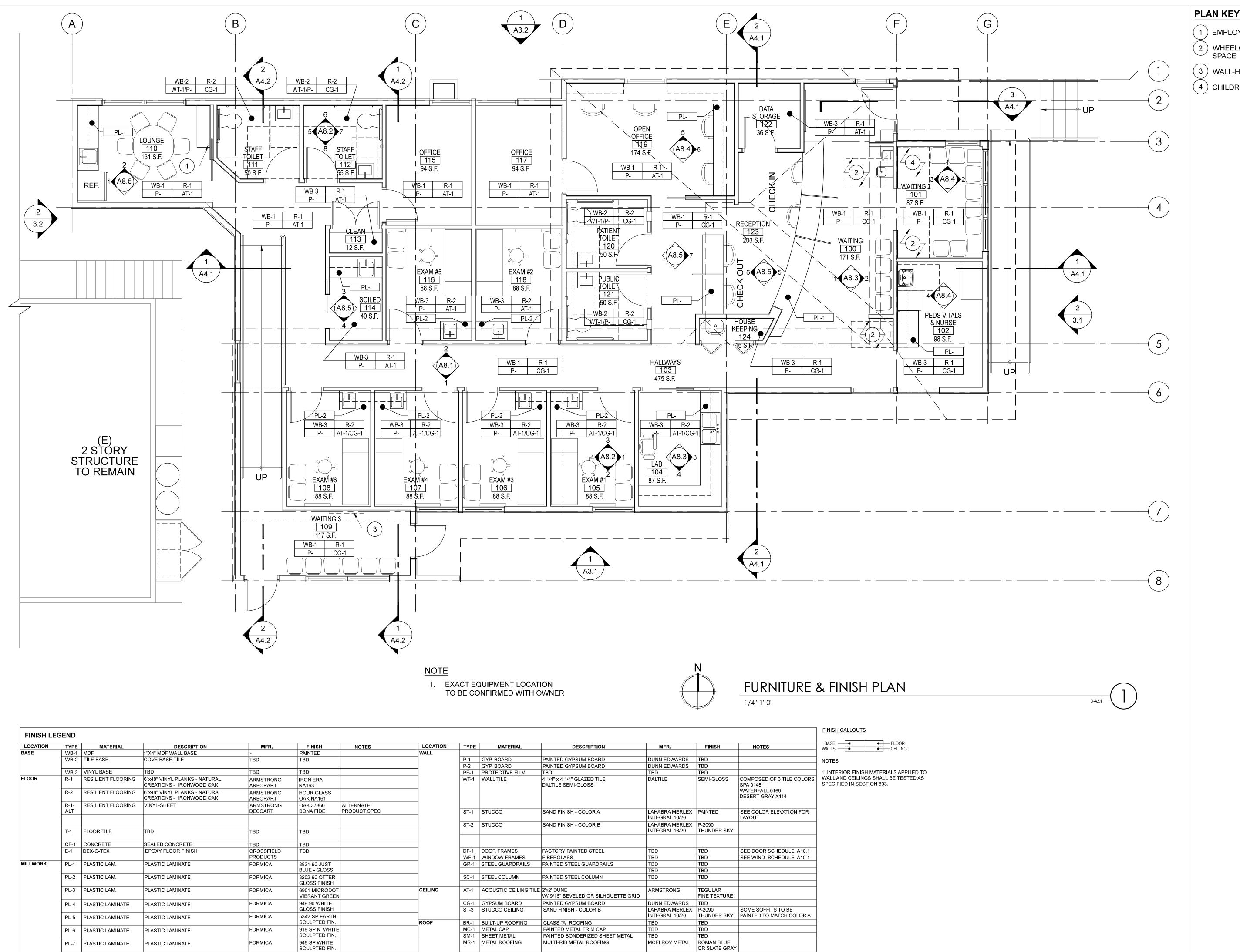


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POWER & EQUIPMENT PLAN



AS-1 ASPHALT SHINGLES

PLAN KEY NOTES

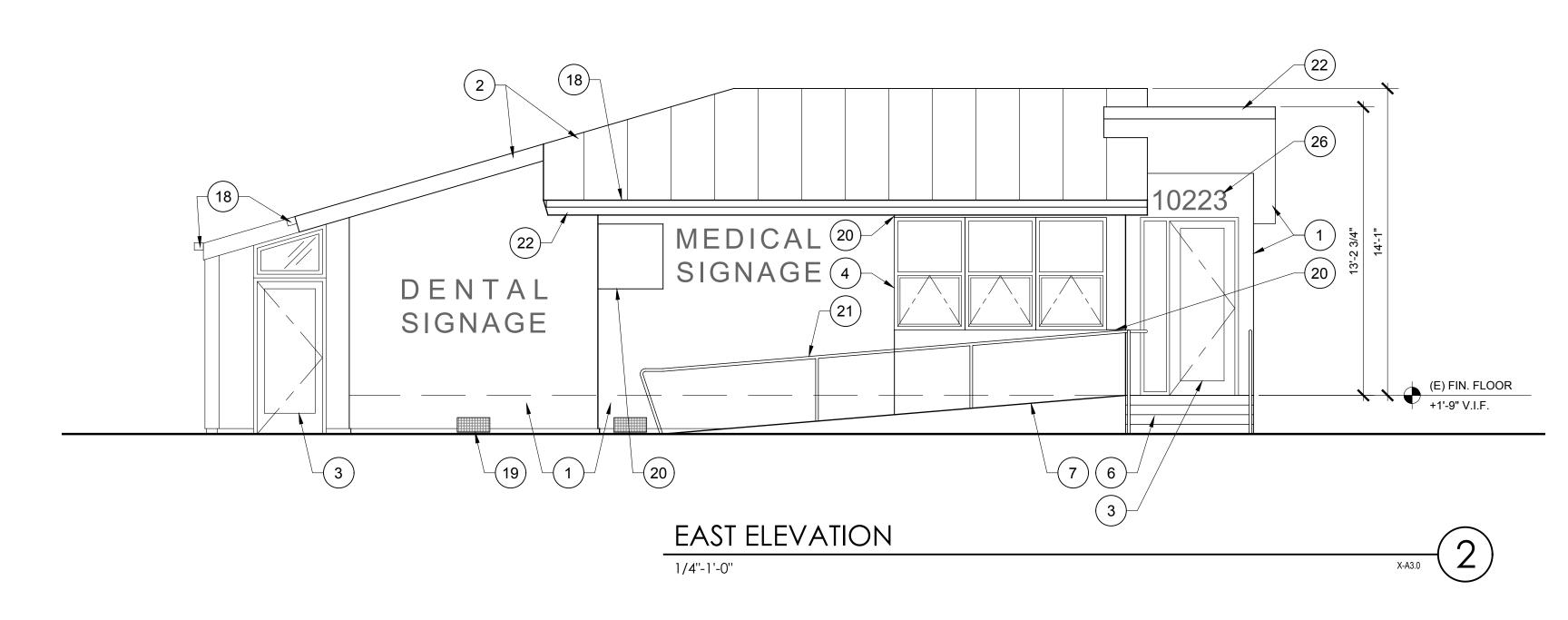
- (1) EMPLOYEE STORAGE
- 2 WHEELCHAIR ACCESSIBLE SPACE
- (3) WALL-HUNG TV ABOVE
- (4) CHILDREN PLAY AREA

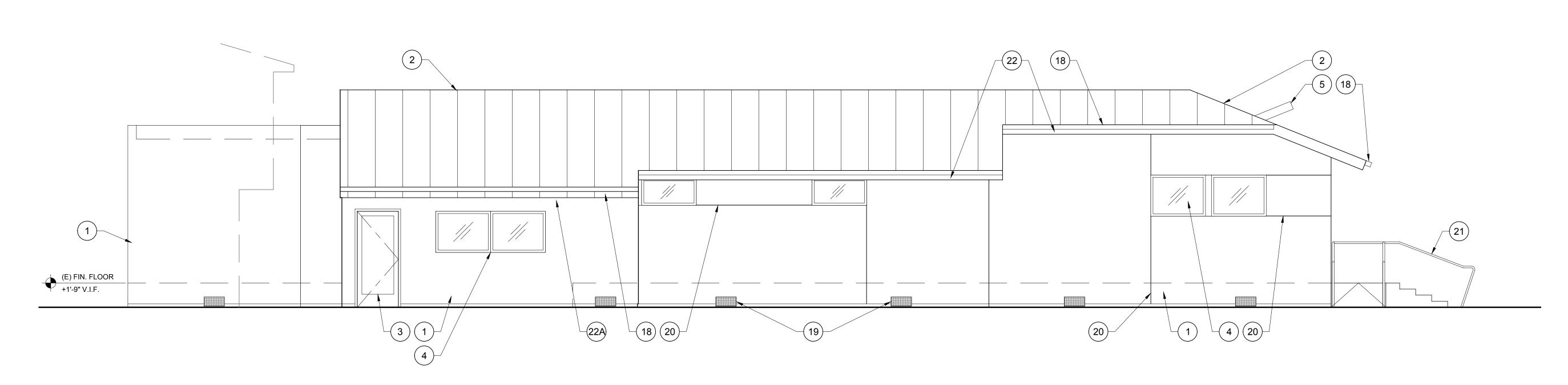


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FURNITURE & FINISH PLAN





SOUTH ELEVATION 1/4"-1'-0"

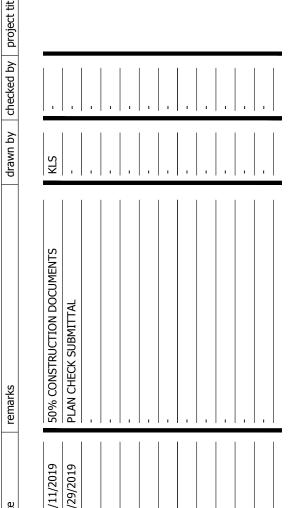
ELEV/SECTION KEY NOTES

- (1) (N) STUCCO FINISH
- (2) (N) METAL ROOF
- 2A CLASS A SINGLE PLY ROOF OVER TAPERED RIP STRIPS, TYPICAL
- (N) ALUMINUM FRAMED GLASS DOOR
- (N) ALUMINUM FRAMED WINDOW
- (N) ROOF STRUCTURE BEYOND
- (5A) BUILDING BEYOND
- (6) (N) CONCRETE STEPS
- (7) (N) ADA ACCESSIBLE RAMP
- (8) EXISTING ROOF /
- BUILDING- PATCH / REPAIR / RE-ROOF ROOF AS NECESSARY
- (9) (N) WINDOW IN EXISTING ÖPENING
- (N) FLOOR JOISTS- SEE STRUCTURAL
- (N) PAINTED GYP. BOARD WALLS / CEILINGS
- (N) PAINTED GYP. BOARD AT EXISTING WALLS / CEILINGS
- (N) FLOORING- SEE SCHEDULE
- (13) ACT CEILING
- (14) (E) CONCRETE FTG.- V.I.F.
- (N) CONCRETE FTG.- SEE STRUCTURAL
- (15) CRICKET / SLOPE AS REQUIRED
- 16 ACCESSIBLE CONCRETE RAMP W/ CLEAR SEALER
- 17) MECHANICAL DUCT / EQUIPMENT
- (18) PAINTED METAL RAIN GUTTER / DOWNSPOUT
- CRAWL SPACE VENTING-16 @ 8"x18", 16 SF TOTAL
- (20) 1/4" ALUMINUM REVEAL
- (21) PAINTED STEEL HANDRAIL
- (22) PAINTED METAL FASCIA
- WRAP METAL ROOFING DOWN TO FASCIA 23) PAINTED STEEL SUPPORT-SEE STRUCTURAL
- (24) (E) BUILDING
- 25 BATT INSULATION- SEE TITLE 24 REPORT
- 8" TALL BRUSHED ALUMINUM NUMBERS ON STANDOFFS

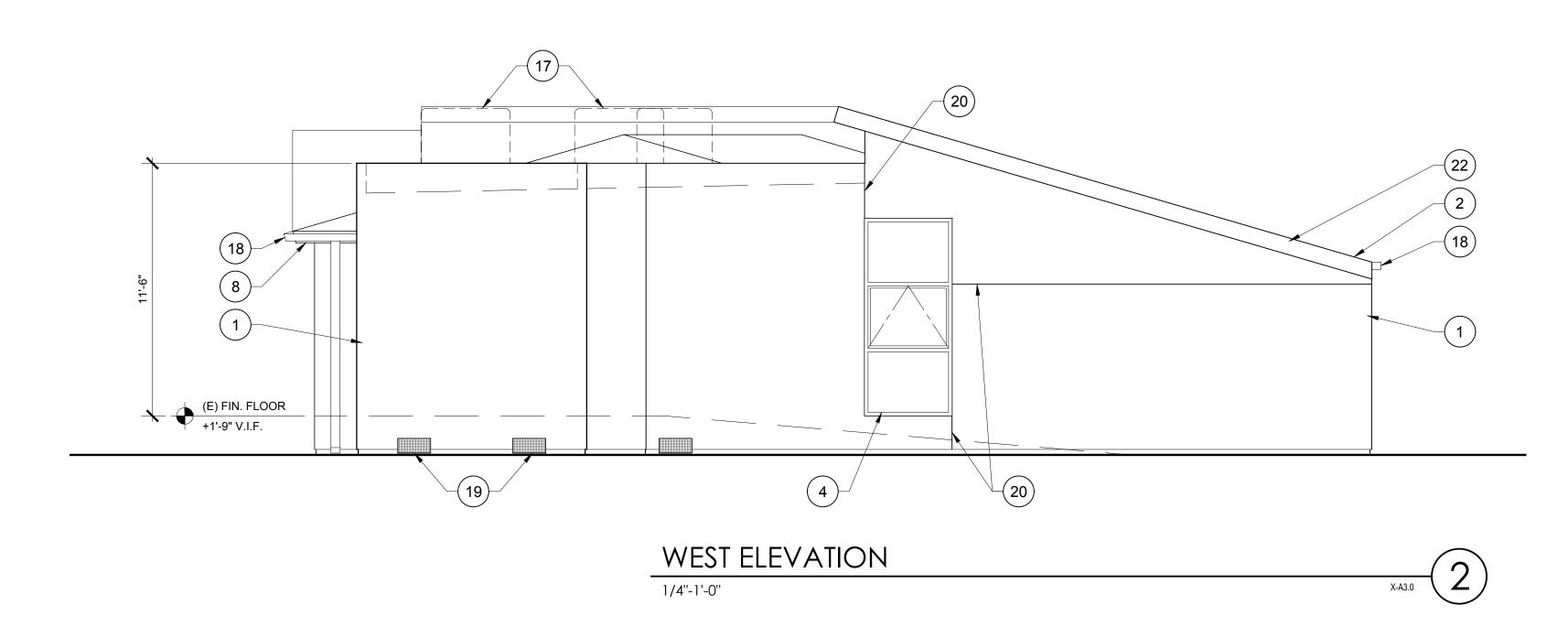


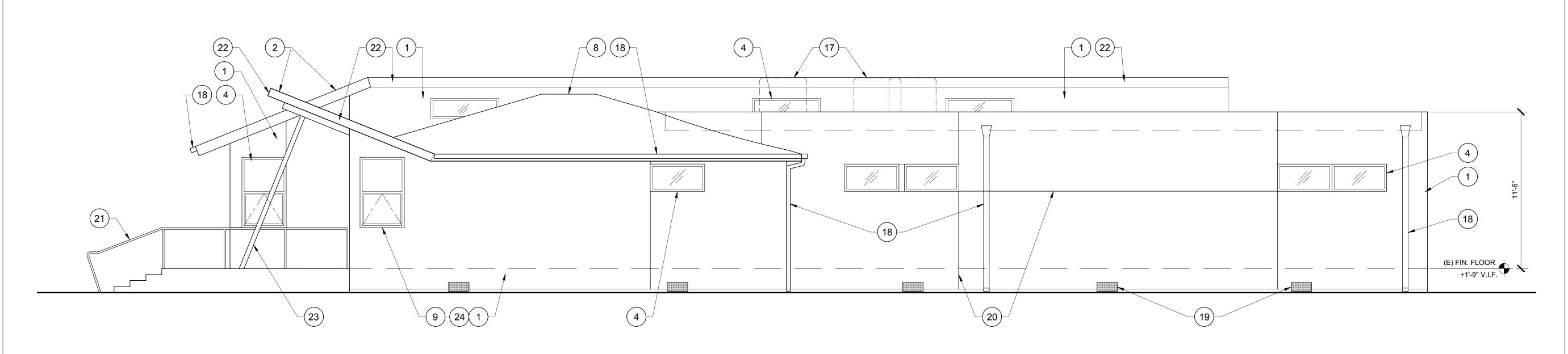
integrated design construction management sustainability

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BUILDING ELEVATIONS





NORTH ELEVATION

1/4"-1'-0"

XA3.0

ELEV/SECTION KEY NOTES

- 1 (N) STUCCO FINISH
- (2) (N) METAL ROOF
- 2A) CLASS A SINGLE PLY ROOF OVER TAPERED RIP STRIPS, TYPICAL
- (N) ALUMINUM FRAMED GLASS DOOR
- (N) ALUMINUM FRAMED WINDOW
- 5 (N) ROOF STRUCTURE BEYOND
- (5A) BUILDING BEYOND
- (6) (N) CONCRETE STEPS

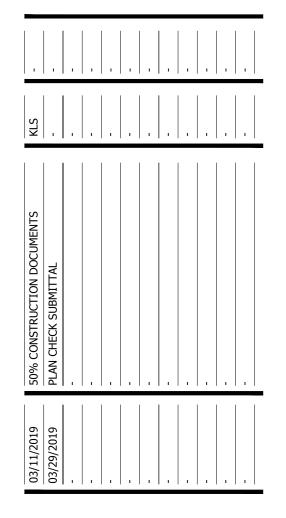
NECESSARY

- 7 (N) ADA ACCESSIBLE RAMP
- 8 EXISTING ROOF / BUILDING- PATCH / REPAIR / RE-ROOF ROOF AS
- 9 (N) WINDOW IN EXISTING OPENING
- (N) FLOOR JOISTS- SEE STRUCTURAL
- (11) (N) PAINTED GYP. BOARD WALLS / CEILINGS
- (N) PAINTED GYP. BOARD AT EXISTING WALLS / CEILINGS
- (N) FLOORING- SEE SCHEDULE
- (13) ACT CEILING
- (E) CONCRETE FTG.- V.I.F.
- (N) CONCRETE FTG.- SEE STRUCTURAL
- (15) CRICKET / SLOPE AS REQUIRED
- 16 ACCESSIBLE CONCRETE RAMP W/ CLEAR SEALER
- 17) MECHANICAL DUCT / EQUIPMENT
- 18) PAINTED METAL RAIN GUTTER / DOWNSPOUT
- 19 CRAWL SPACE VENTING-16 @ 8"x18", 16 SF TOTAL
- (20) 1/4" ALUMINUM REVEAL
- (21) PAINTED STEEL HANDRAIL
- (22) PAINTED METAL FASCIA
- WRAP METAL ROOFING DOWN TO FASCIA
- PAINTED STEEL SUPPORT-SEE STRUCTURAL
- (24) (E) BUILDING
- BATT INSULATION- SEE TITLE 24 REPORT
- 26) 8" TALL BRUSHED ALUMINUM NUMBERS ON STANDOFFS



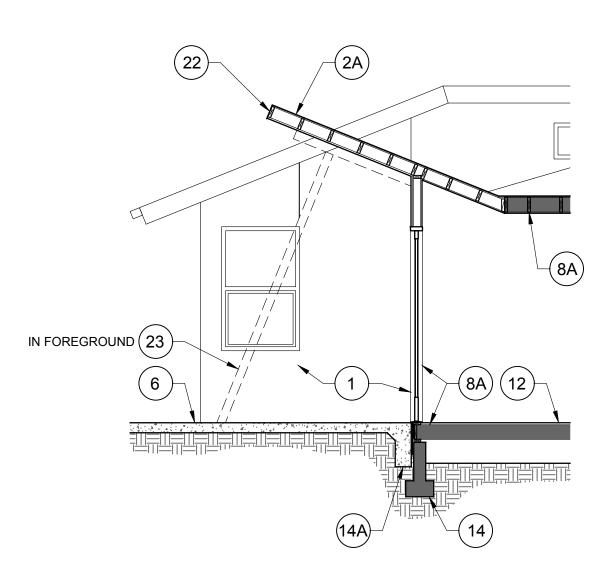
sustainability

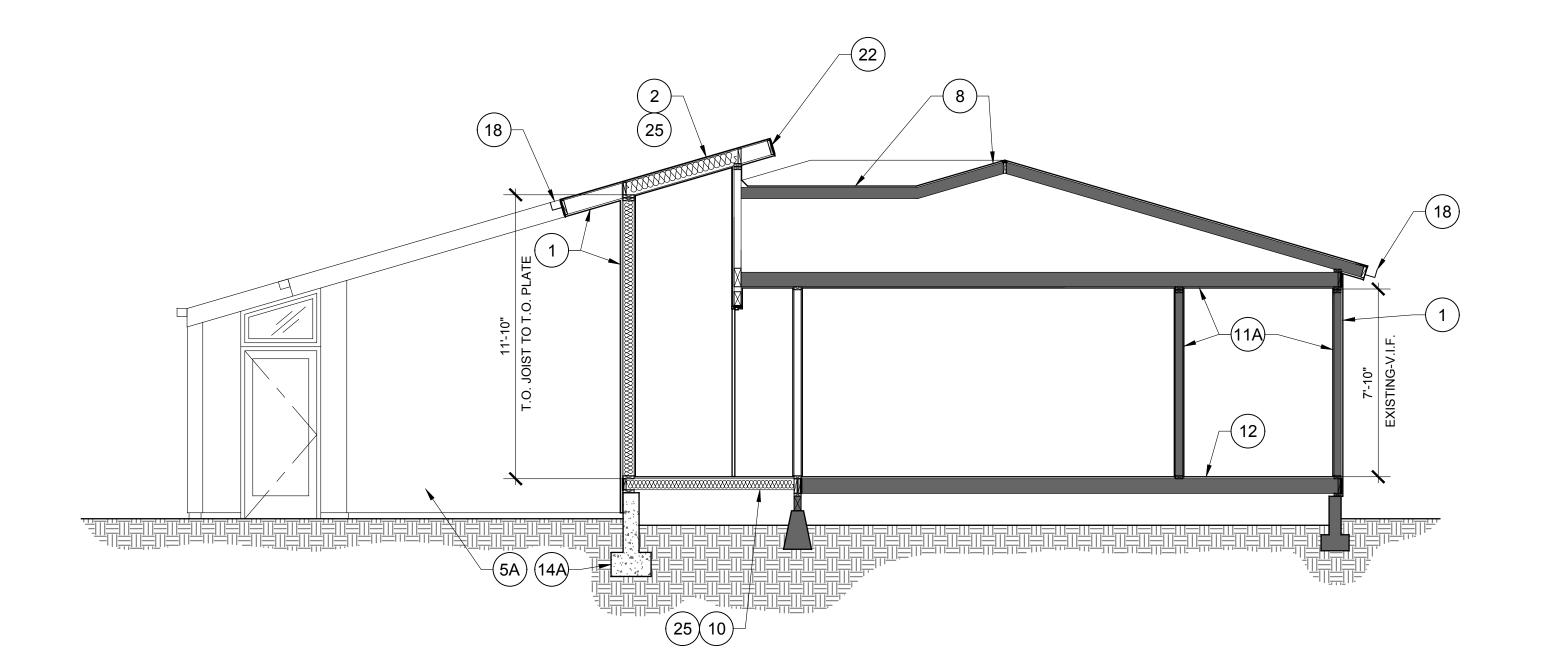
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LENNOX, CA 90304



BUILDING ELEVATIONS

A3.2





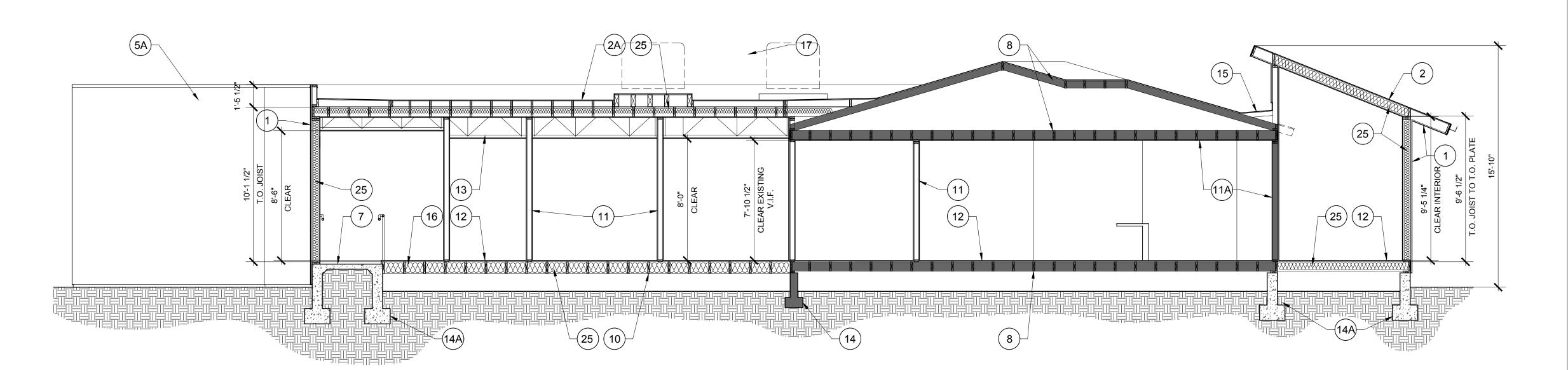
BUILDING SECTION

X-A4.0

BUILDING SECTION

1/4"-1'-0"

X-A4.0 (2)



BUILDING SECTION

1/4"-1'-0"

ELEV/SECTION KEY NOTES

- (1) (N) STUCCO FINISH
- (2) (N) METAL ROOF
- CLASS A SINGLE PLY ROOF OVER TAPERED RIP STRIPS, TYPICAL
- 3 (N) ALUMINUM FRAMED GLASS DOOR
- 4 (N) ALUMINUM FRAMED WINDOW
- 5 (N) ROOF STRUCTURE BEYOND
- (5A) BUILDING BEYOND
- (6) (N) CONCRETE STEPS
- (N) CONCRETE STELL
- 7 (N) ADA ACCESSIBLE RAMP

 8 EXISTING ROOF /
 BUILDING- PATCH / REPAIR
- / RE-ROOF ROOF AS NECESSARY

 9 (N) WINDOW IN EXISTING OPENING
- (N) FLOOR JOISTS- SEE STRUCTURAL
- (N) PAINTED GYP. BOARD WALLS / CEILINGS
- (N) PAINTED GYP. BOARD AT EXISTING WALLS / CEILINGS
- (N) FLOORING- SEE SCHEDULE
- (13) ACT CEILING
- (14) (E) CONCRETE FTG.- V.I.F.
- (N) CONCRETE FTG.- SEE STRUCTURAL
- 15 CRICKET / SLOPE AS REQUIRED
- 16) ACCESSIBLE CONCRETE RAMP W/ CLEAR SEALER
- 17) MECHANICAL DUCT / EQUIPMENT
- 18) PAINTED METAL RAIN GUTTER / DOWNSPOUT
- 19 CRAWL SPACE VENTING-16 @ 8"x18", 16 SF TOTAL
- (20) 1/4" ALUMINUM REVEAL
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- WRAP METAL ROOFING DOWN TO FASCIA
- 23 PAINTED STEEL SUPPORT-SEE STRUCTURAL
- (24) (E) BUILDING
- 25) BATT INSULATION- SEE TITLE 24 REPORT
- 26) 8" TALL BRUSHED ALUMINUM NUMBERS ON STANDOFFS



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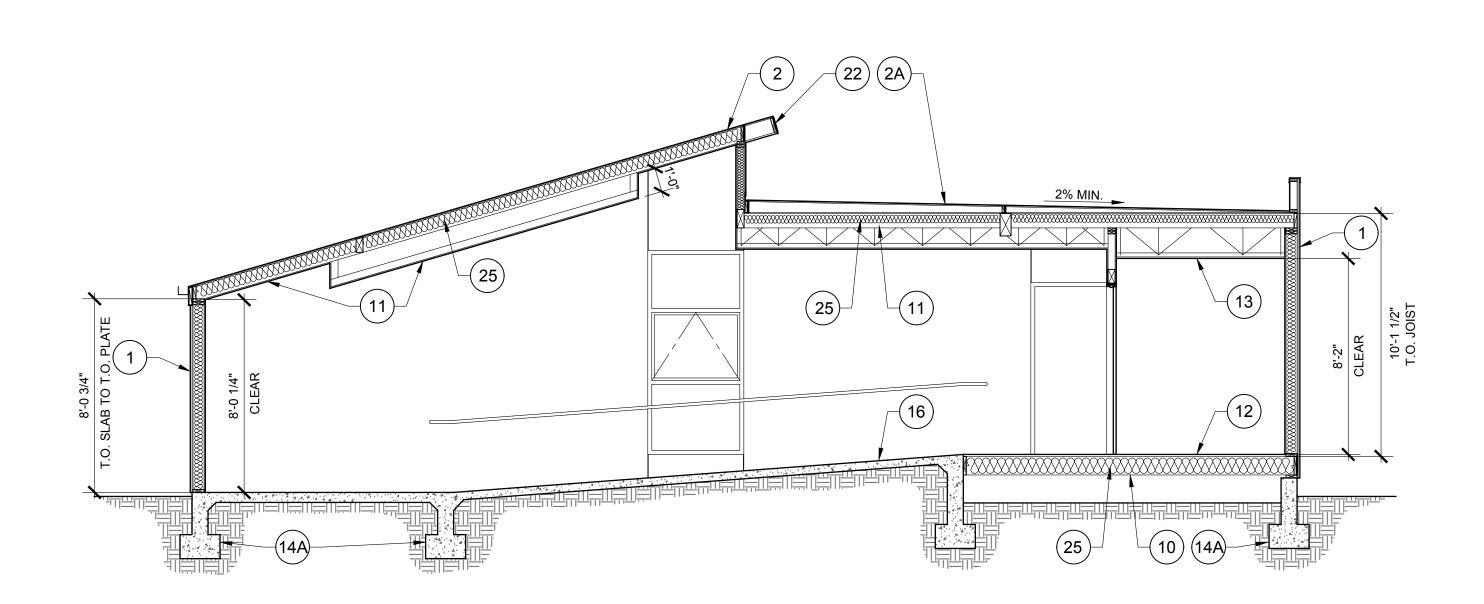
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III DING SECTION

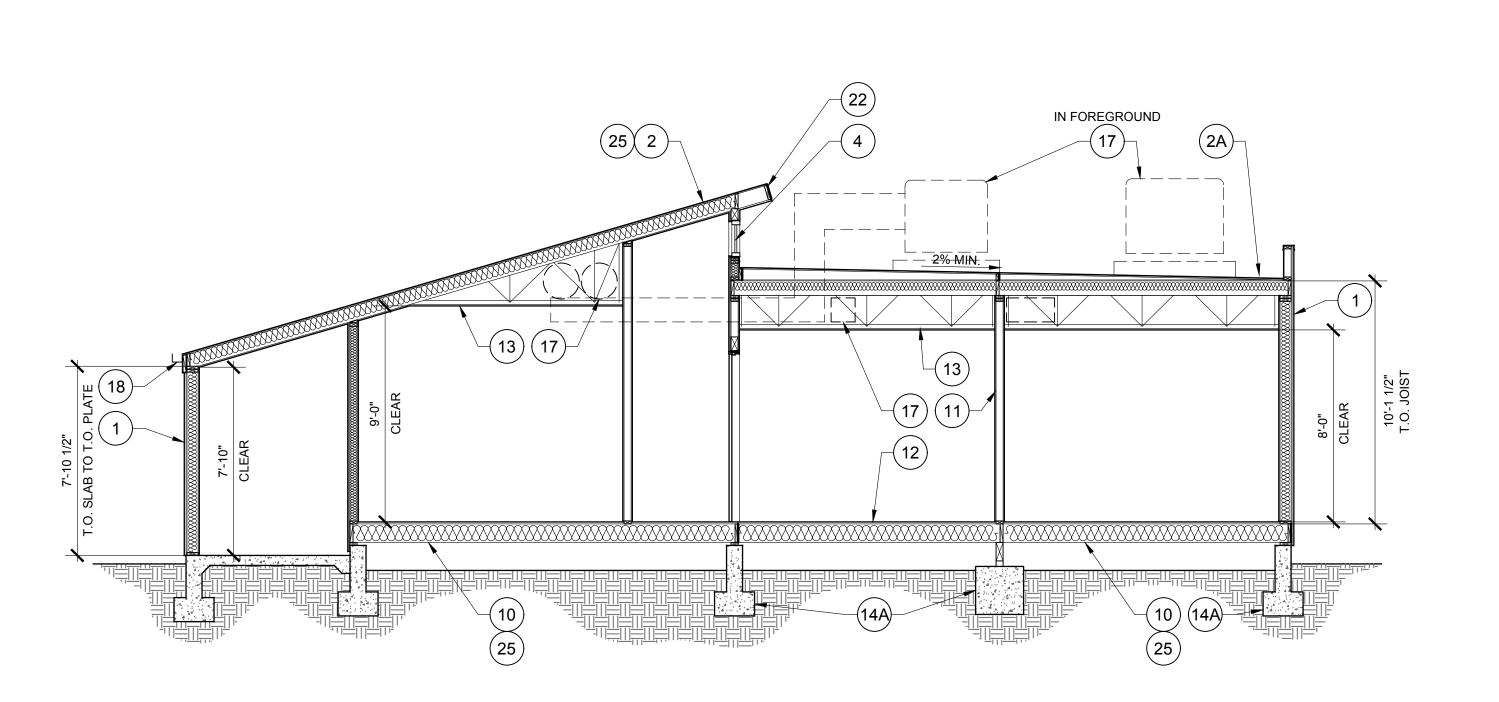
BUILDING SECTIONS

A4.1



BUILDING SECTION

1/4"-1'-0"



BUILDING SECTION

1/4"-1'-0"

ELEV/SECTION KEY NOTES

- (1) (N) STUCCO FINISH
- (2) (N) METAL ROOF
- CLASS A SINGLE PLY ROOF OVER TAPERED RIP STRIPS, TYPICAL
- 3 (N) ALUMINUM FRAMED GLASS DOOR
- 4 (N) ALUMINUM FRAMED WINDOW
- (N) ROOF STRUCTURE BEYOND
- (5A) BUILDING BEYOND
- (6) (N) CONCRETE STEPS
- 7 (N) ADA ACCESSIBLE RAMP

 8 EXISTING ROOF /
 BUILDING- PATCH / REPAIR
- / RE-ROOF ROOF AS NECESSARY

 (9) (N) WINDOW IN EXISTING
- OPENING
- (N) FLOOR JOISTS- SEE STRUCTURAL
- (N) PAINTED GYP. BOARD WALLS / CEILINGS

 (N) PAINTED GYP. BOARD AT EXISTING WALLS /
- (N) FLOORING- SEE SCHEDULE

CEILINGS

- (13) ACT CEILING
- (14) (E) CONCRETE FTG.- V.I.F.
- (N) CONCRETE FTG.- SEE STRUCTURAL
- (15) CRICKET / SLOPE AS REQUIRED
- 16 ACCESSIBLE CONCRETE RAMP W/ CLEAR SEALER
- 17) MECHANICAL DUCT / EQUIPMENT

_____(2)

- 18) PAINTED METAL RAIN GUTTER / DOWNSPOUT
- 19 CRAWL SPACE VENTING-16 @ 8"x18", 16 SF TOTAL
- (20) 1/4" ALUMINUM REVEAL
- (21) PAINTED STEEL HANDRAIL
- (22) PAINTED METAL FASCIA
- WRAP METAL ROOFING DOWN TO FASCIA
- 23 PAINTED STEEL SUPPORT-SEE STRUCTURAL
- (24) (E) BUILDING
- 25 BATT INSULATION- SEE TITLE 24 REPORT
- 8" TALL BRUSHED ALUMINUM NUMBERS ON STANDOFFS



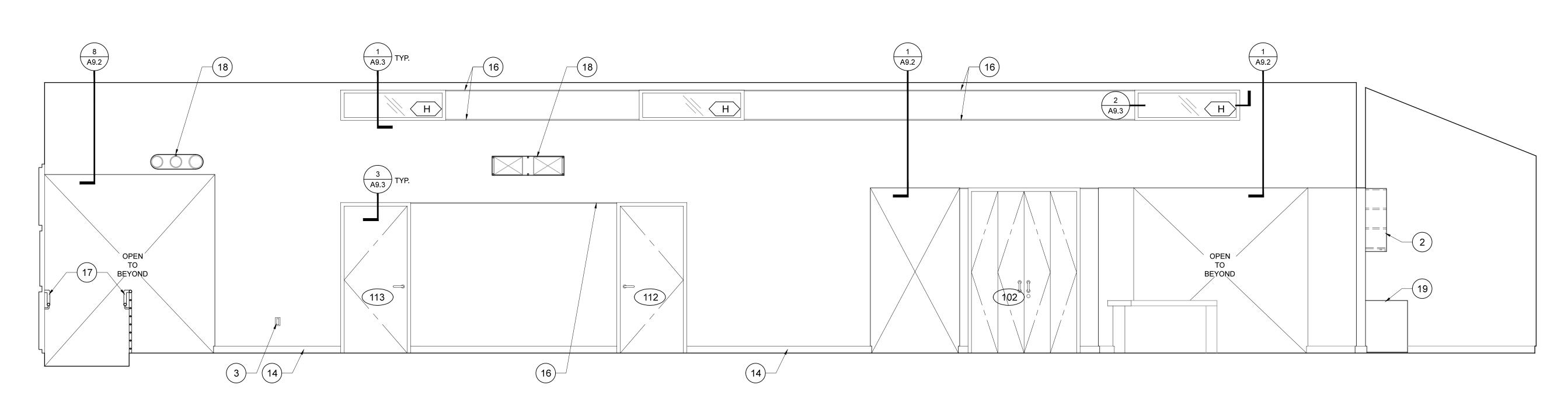
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BUILDING SECTIONS

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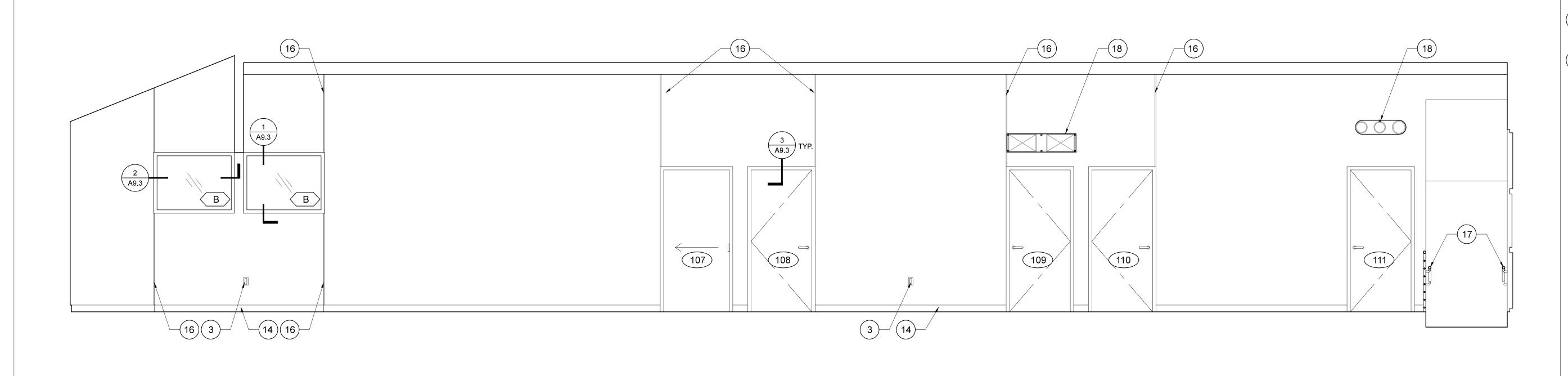


HALLWAY

HALLWAY

3/8"-1'-0"

3/8"-1'-0"



INTERIOR KEY NOTES

- 1 BASE STORAGE CABINETS 34" H.
- (2) WALL HUNG CABINETS
- 3 POWER / DATA OUTLET/ KEYPAD (SEE POWER & EQUIPMENT PLAN A2.4 FOR DETAILS)
- 4 UNDER-CABINET LIGHTING (SEE RCP A2.3 FOR DETAILS)
- (5) BASE SINK CABINETS
- 6 ADA ACCESSIBLE SINK, KNEE CLEARANCE SEE A0.5 FOR DETAILS
- 7 ADA GRAB BARS, SEE A0.5 FOR DETAILS
- 8 TOILET SEAT COVER DISPENSER, SEE A0.5 FOR DETAILS
- 9 TOILET TISSUE HOLDER, SEE A0.5 FOR DETAILS
- (10) WALL HUNG MIRROR W/LIGHT
- 11) WALL-HUNG SINK SEE PLUMBING LEGEND
- 12) SURFACE MOUNT PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- (13) NURSE CALL STATION
- (14) WALL BASE, SEE A2.5 FOR FINISH
- DRINKING FOUNTAIN, SEE A2.4 FOR PLUMBING
- (16) 1/2" METAL REVEAL

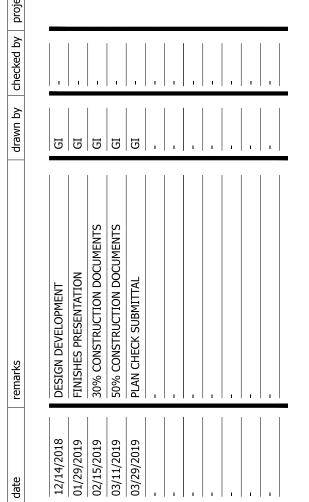
X-A8.0

- (17) RAMP HAND/GUARDRAILS
- (18) EXPOSED MECHANICAL DUCTS IN PAINTED METAL JACKETS, SEE MECHANICAL DRAWINGS
- 19 DESK COUNTER / MILLWORK
- (20) RECEPTION DESK / MILLWORK
- (21) WALL-HUNG SINK COUNTER
- (22) WALL-HUNG TV
- TILE FINISHED WALL, SEE FINISH SCHEDULE
- OPEN AREA AT WORKSTATION
- OPTIONAL SURFACE MOUNTED SOAP DISPENSER
- (26) WALL MOUNTED STORAGE SHELVES



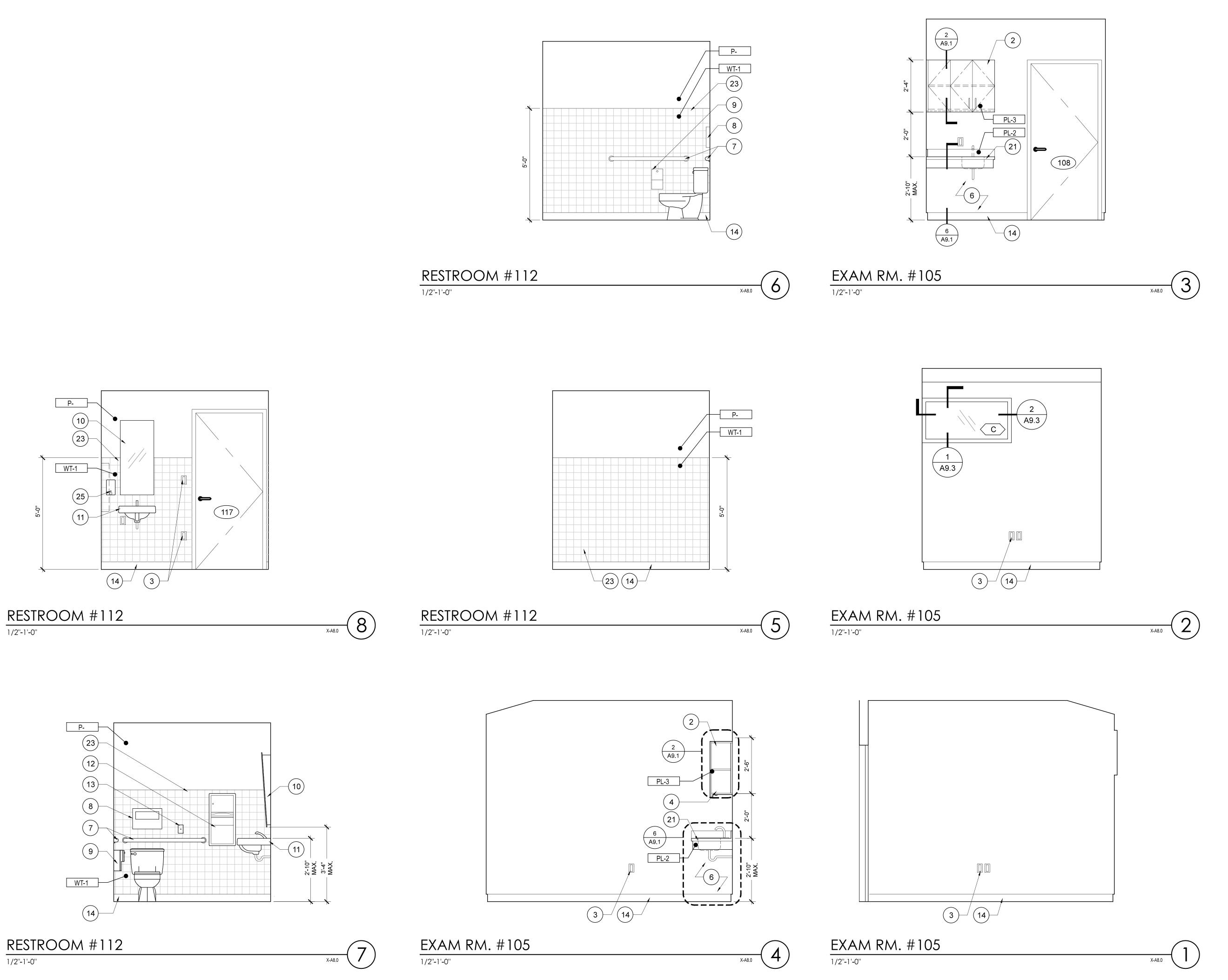
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INTERIOR ELEVATIONS

A8.1

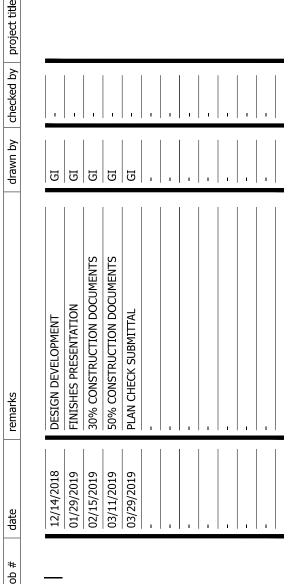


INTERIOR KEY NOTES

- 1 BASE STORAGE CABINETS 34" H.
- 2 WALL HUNG CABINETS
- 3 POWER / DATA OUTLET/ KEYPAD (SEE POWER & EQUIPMENT PLAN A2.4 FOR DETAILS)
- 4 UNDER-CABINET LIGHTING (SEE RCP A2.3 FOR DETAILS)
- (5) BASE SINK CABINETS
- 6 ADA ACCESSIBLE SINK, KNEE CLEARANCE SEE A0.5 FOR DETAILS
- 7 ADA GRAB BARS, SEE A0.5 FOR DETAILS
- 8 TOILET SEAT COVER DISPENSER, SEE A0.5 FOR DETAILS
- 9 TOILET TISSUE HOLDER, SEE A0.5 FOR DETAILS
- (10) WALL HUNG MIRROR W/LIGHT
- 11 WALL-HUNG SINK
 SEE PLUMBING LEGEND

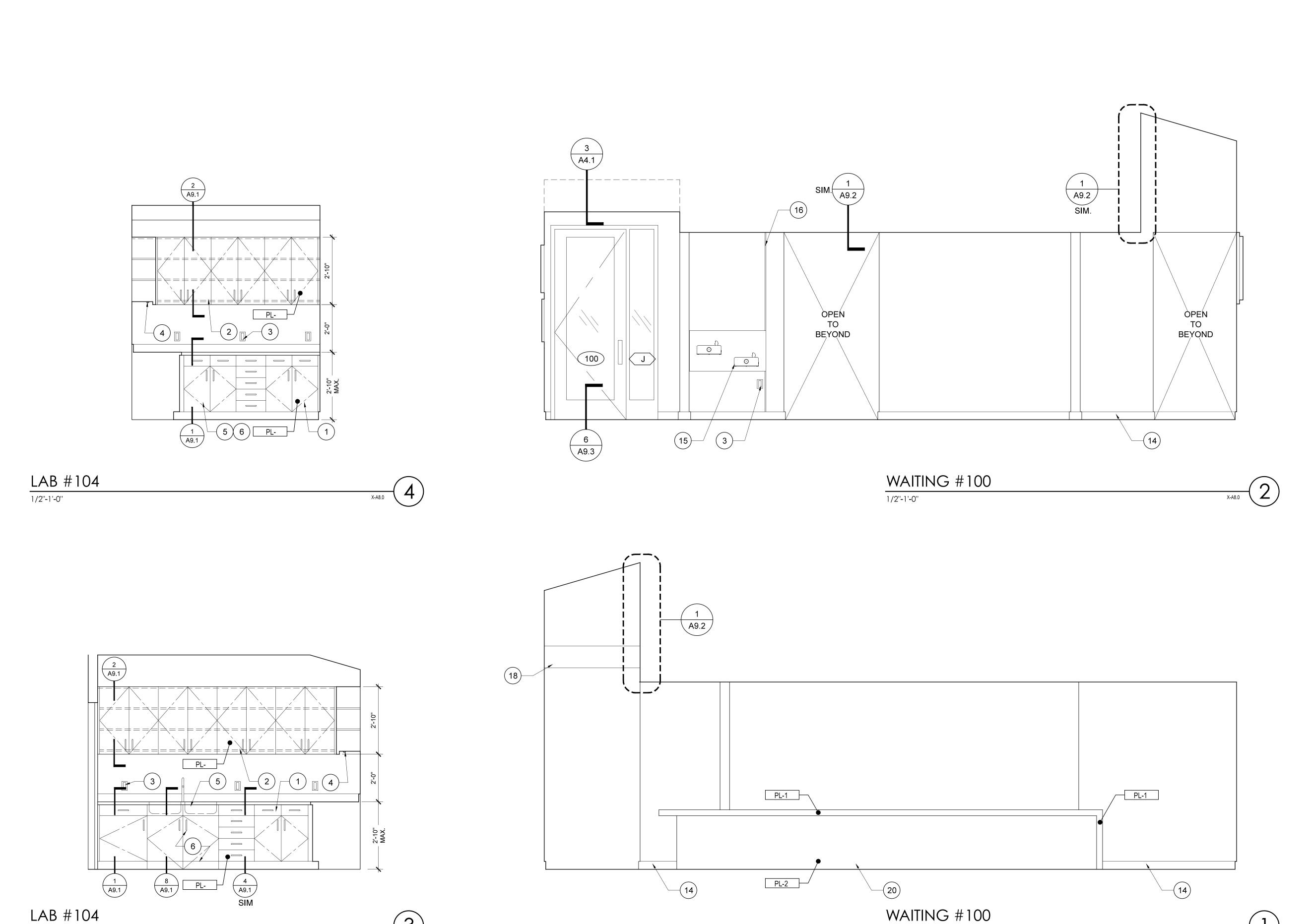
 12 SURFACE MOUNT PAPER
 TOWEL DISPENSER AND
 WASTE RECEPTACLE
- (13) NURSE CALL STATION
- WALL BASE, SEE A2.5 FOR FINISH
- 15) DRINKING FOUNTAIN, SEE A2.4 FOR PLUMBING
- (16) 1/2" METAL REVEAL
- (17) RAMP HAND/GUARDRAILS
- (18) EXPOSED MECHANICAL DUCTS IN PAINTED METAL JACKETS, SEE MECHANICAL DRAWINGS
- (19) DESK COUNTER / MILLWORK
- 20) RECEPTION DESK / MILLWORK
- (21) WALL-HUNG SINK COUNTER
- (22) WALL-HUNG TV
- TILE FINISHED WALL, SEE FINISH SCHEDULE
- OPEN AREA AT WORKSTATION
- OPTIONAL SURFACE MOUNTED SOAP DISPENSER
- (26) WALL MOUNTED STORAGE SHELVES

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A8.2

INTERIOR ELEVATIONS



1/2"-1'-0"

LAB #104

1/2"-1'-0"

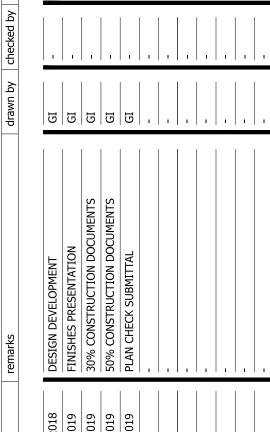
INTERIOR KEY NOTES

- 1 BASE STORAGE CABINETS 34" H.
- 2 WALL HUNG CABINETS
- (3) POWER / DATA OUTLET/ KEYPAD (SEE POWER & EQUIPMENT PLAN A2.4 FOR DETAILS)
- 4 UNDER-CABINET LIGHTING (SEE RCP A2.3 FOR DETAILS)
- (5) BASE SINK CABINETS
- (6) ADA ACCESSIBLE SINK, KNEE CLEARANCE SEE A0.5 FOR DETAILS
- 7 ADA GRAB BARS, SEE A0.5 FOR DETAILS
- 8 TOILET SEAT COVER DISPENSER, SEE A0.5 FOR DETAILS
- 9 TOILET TISSUE HOLDER, SEE A0.5 FOR DETAILS
- (10) WALL HUNG MIRROR W/LIGHT
- (11) WALL-HUNG SINK SEE PLUMBING LEGEND
- 12 SURFACE MOUNT PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- (13) NURSE CALL STATION
- (14) WALL BASE, SEE A2.5 FOR ✓ FINISH
- DRINKING FOUNTAIN, SEE A2.4 FOR PLUMBING
- (16) 1/2" METAL REVEAL
- (17) RAMP HAND/GUARDRAILS
- (18) EXPOSED MECHANICAL DUCTS IN PAINTED METAL JACKETS, SEE MECHANICAL DRAWINGS
- (19) DESK COUNTER / MILLWORK
- 20) RECEPTION DESK / MILLWORK
- (21) WALL-HUNG SINK COUNTER
- (22) WALL-HUNG TV
- TILE FINISHED WALL, SEE FINISH SCHEDULE
- OPEN AREA AT WORKSTATION
- OPTIONAL SURFACE MOUNTED SOAP DISPENSER
- (26) WALL MOUNTED STORAGE SHELVES



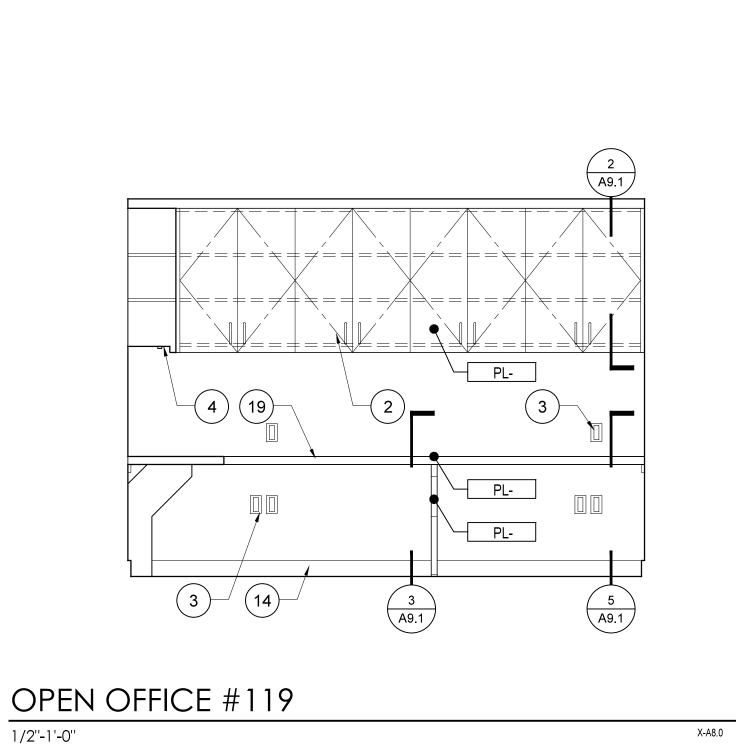
integrated design construction management sustainability

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INTERIOR ELEVATIONS

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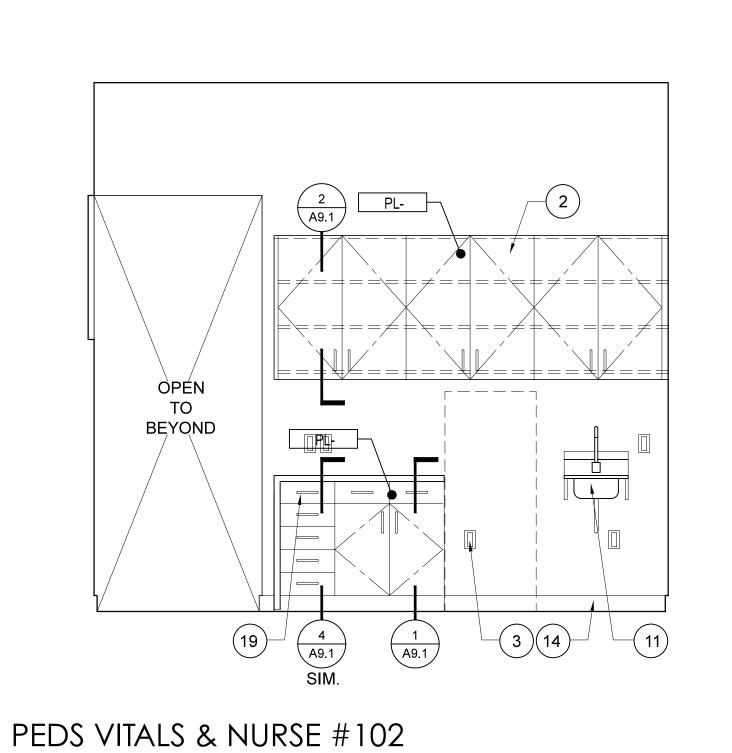
1/2"-1'-0"

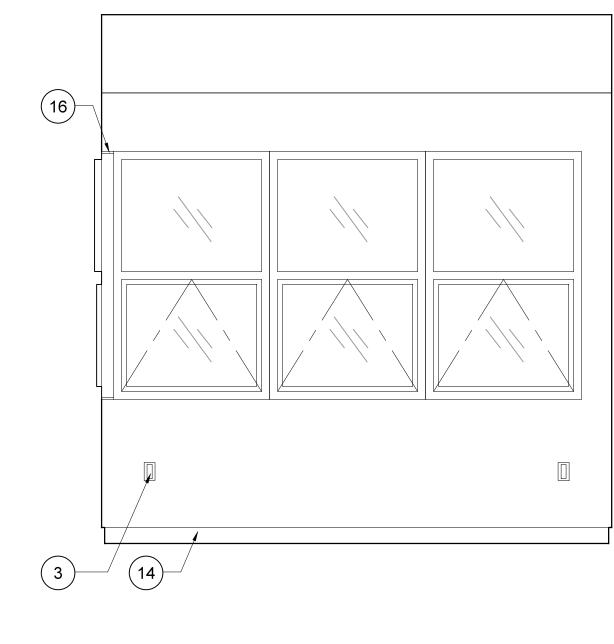
OPEN OFFICE #119

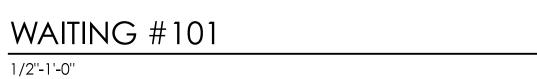
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1/2"-1'-0"

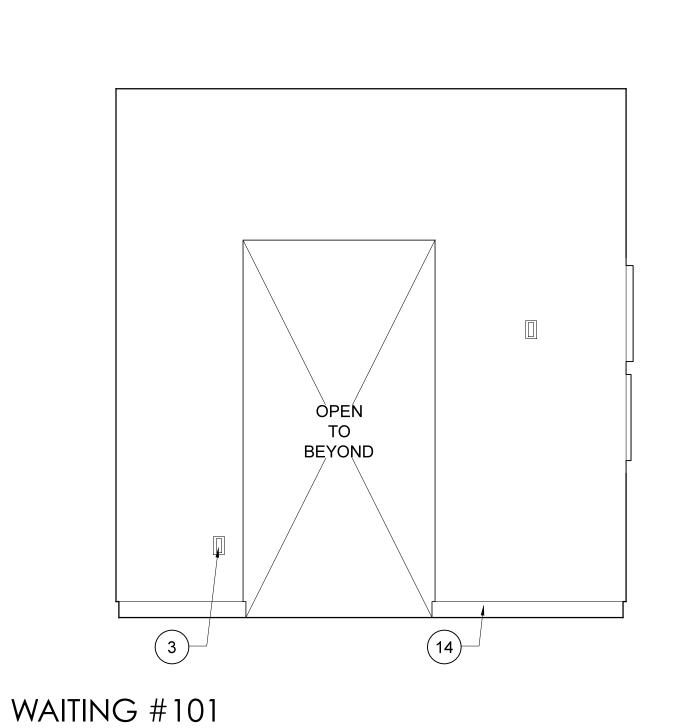
1/2"-1'-0"

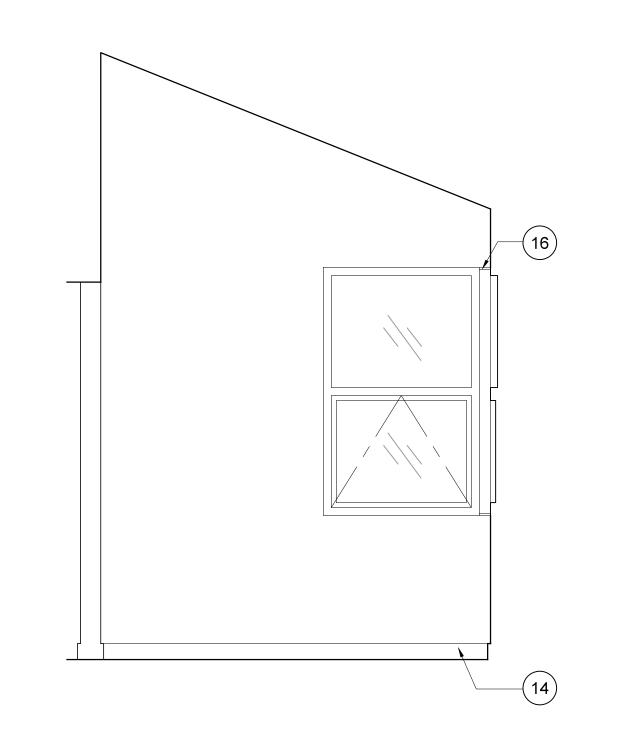






1/2"-1'-0"





WAITING #101

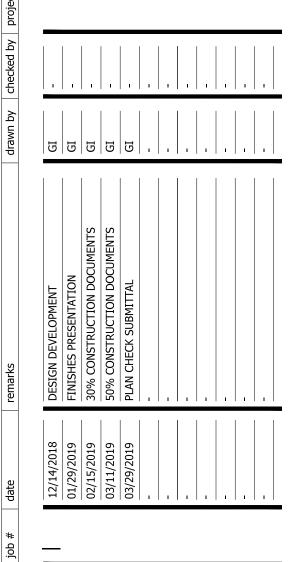
INTERIOR KEY NOTES

- 1 BASE STORAGE CABINETS 34" H.
- (2) WALL HUNG CABINETS
- (3) POWER / DATA OUTLET/ KEYPAD (SEE POWER & EQUIPMENT PLAN A2.4 FOR DETAILS)
- 4 UNDER-CABINET LIGHTING (SEE RCP A2.3 FOR DETAILS)
- (5) BASE SINK CABINETS
- 6 ADA ACCESSIBLE SINK, KNEE CLEARANCE SEE A0.5 FOR DETAILS
- 7 ADA GRAB BARS, SEE A0 5 FOR DETAILS
- 8 TOILET SEAT COVER DISPENSER, SEE A0.5 FOR DETAILS
- 9 TOILET TISSUE HOLDER, SEE A0.5 FOR DETAILS
- (10) WALL HUNG MIRROR W/LIGHT
- 11) WALL-HUNG SINK SEE PLUMBING LEGEND
- 12 SURFACE MOUNT PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- (13) NURSE CALL STATION
- (14) WALL BASE, SEE A2.5 FOR ✓ FINISH
- DRINKING FOUNTAIN, SEE A2.4 FOR PLUMBING
- (16) 1/2" METAL REVEAL
- (17) RAMP HAND/GUARDRAILS
- (18) EXPOSED MECHANICAL DUCTS IN PAINTED METAL JACKETS, SEE MECHANICAL DRAWINGS
- (19) DESK COUNTER / MILLWORK
- 20) RECEPTION DESK / MILLWORK
- (21) WALL-HUNG SINK COUNTER
- (22) WALL-HUNG TV
- TILE FINISHED WALL, SEE FINISH SCHEDULE
- OPEN AREA AT WORKSTATION
- OPTIONAL SURFACE MOUNTED SOAP DISPENSER
- (26) WALL MOUNTED STORAGE SHELVES



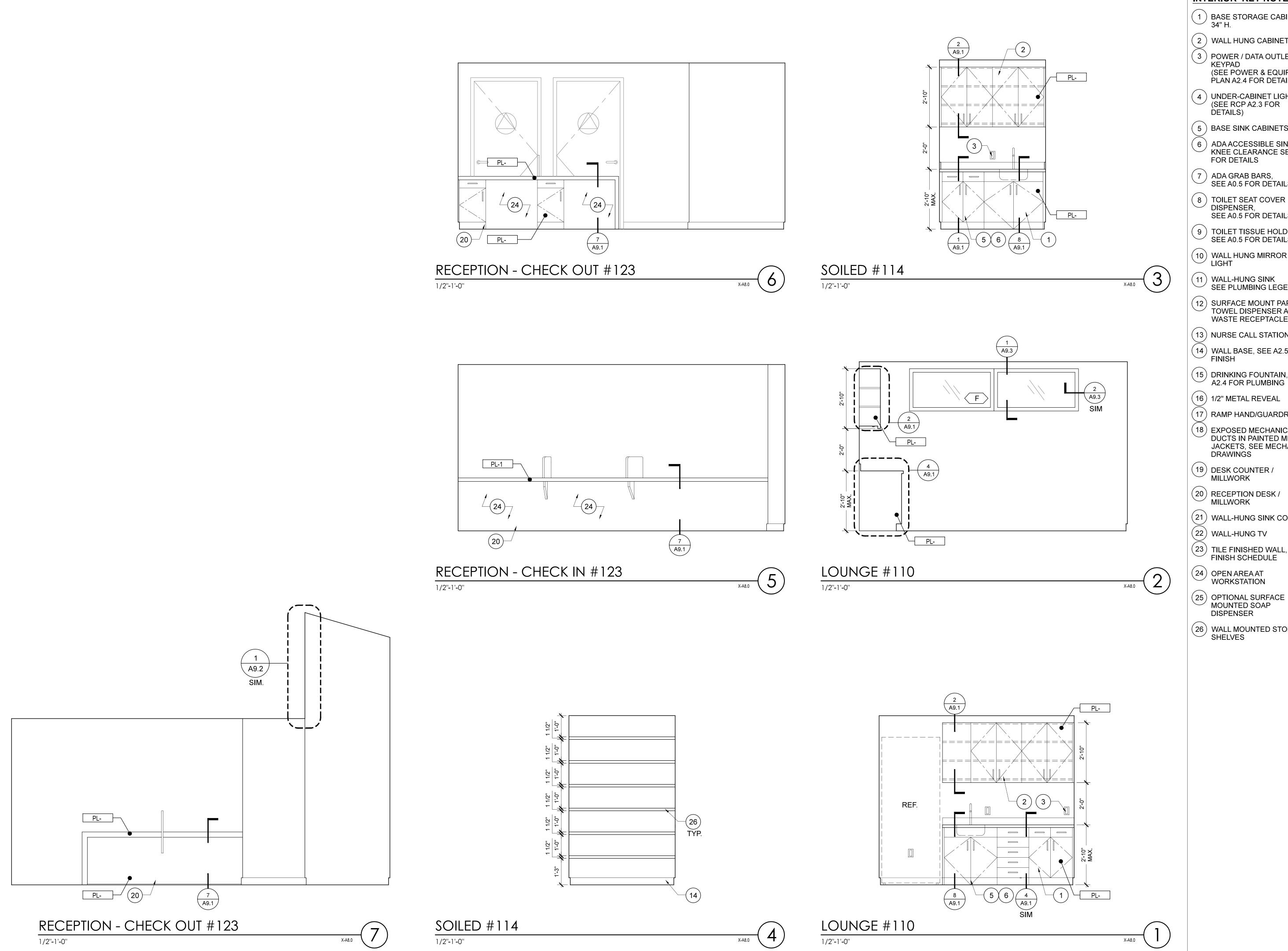
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A8.4

INTERIOR ELEVATIONS



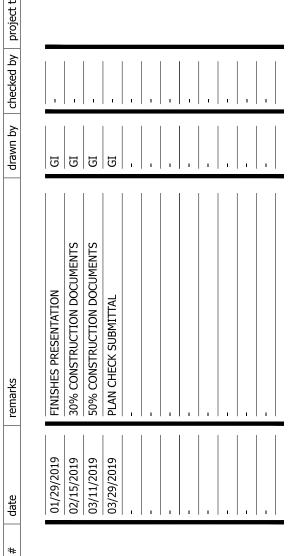
INTERIOR KEY NOTES

- 1 BASE STORAGE CABINETS 34" H.
- (2) WALL HUNG CABINETS
- (3) POWER / DATA OUTLET/ KEYPAD (SEE POWER & EQUIPMENT PLAN A2.4 FOR DETAILS)
- (4) UNDER-CABINET LIGHTING (SEE RCP A2.3 FOR DETAILS)
- (5) BASE SINK CABINETS
- 6 ADA ACCESSIBLE SINK, KNEE CLEARANCE SEE A0.5 FOR DETAILS
- (7) ADA GRAB BARS, SEE A0 5 FOR DETAILS
- 8 TOILET SEAT COVER DISPENSER, SEE A0.5 FOR DETAILS
- 9 TOILET TISSUE HOLDER, SEE A0.5 FOR DETAILS
- WALL HUNG MIRROR W/
- 11) WALL-HUNG SINK SEE PLUMBING LEGEND
- (12) SURFACE MOUNT PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
- (13) NURSE CALL STATION
- (14) WALL BASE, SEE A2.5 FOR ✓ FINISH
- DRINKING FOUNTAIN, SEE A2.4 FOR PLUMBING
- (16) 1/2" METAL REVEAL
- (17) RAMP HAND/GUARDRAILS
- (18) EXPOSED MECHANICAL DUCTS IN PAINTED METAL JACKETS, SEE MECHANICAL DRAWINGS
- (19) DESK COUNTER / MILLWORK
- (21) WALL-HUNG SINK COUNTER
- (22) WALL-HUNG TV
- 23) TILE FINISHED WALL, SEE FINISH SCHEDULE
- OPTIONAL SURFACE MOUNTED SOAP DISPENSER
- (26) WALL MOUNTED STORAGE SHELVES



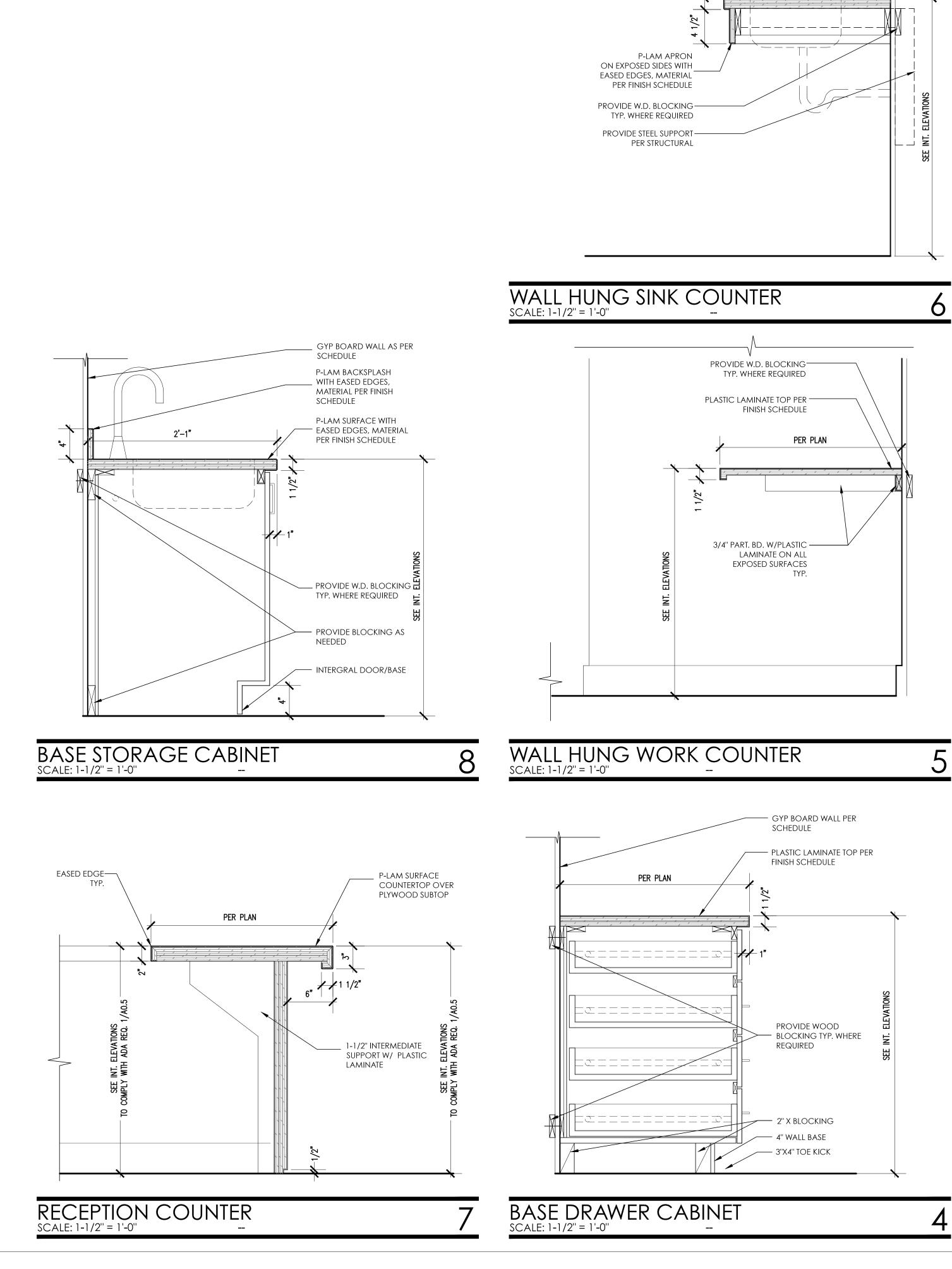
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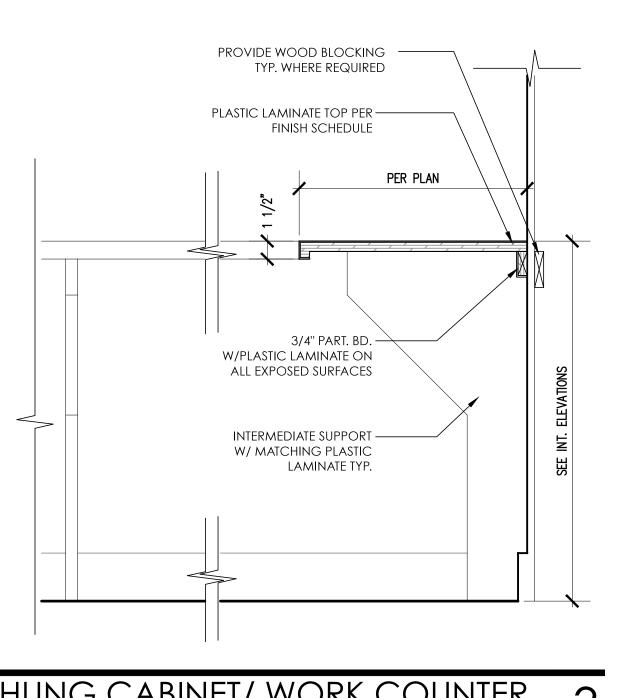
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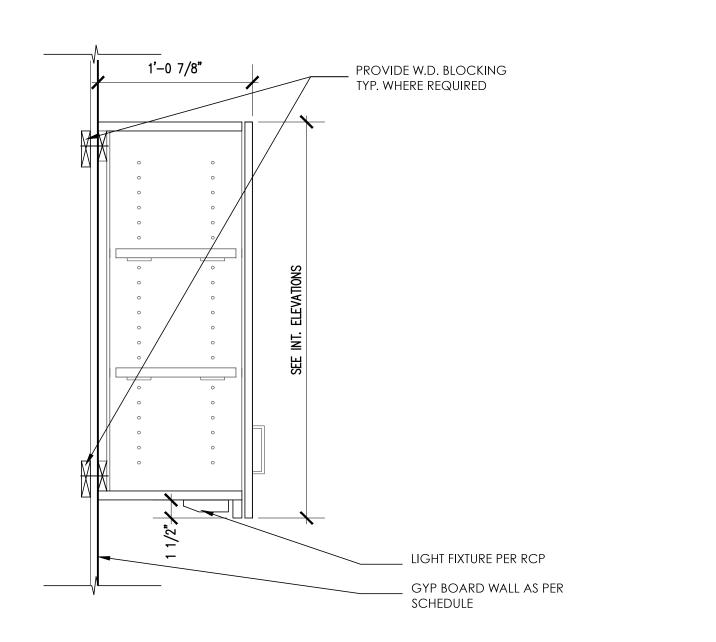
A8.5

INTERIOR ELEVATIONS





WALL HUNG CABINET/ WORK COUNTER SCALE: 1-1/2" = 1'-0"



WALL HUNG CABINET SCALE: 1-1/2" = 1'-0" --

PER PLAN

SCHEDULE

P-LAM BACKSPLASH

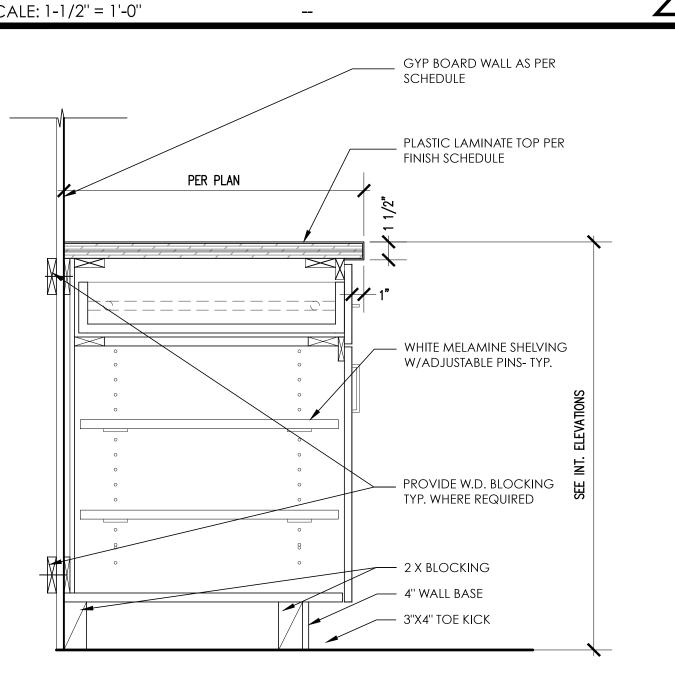
WITH EASED EDGES, -

MATERIAL PER FINISH

P-LAM SURFACE WITH ——

EASED EDGES, MATERIAL

PER FINISH SCHEDULE



BASE STORAGE CABINET SCALE: 1-1/2" = 1'-0"

integrated

design

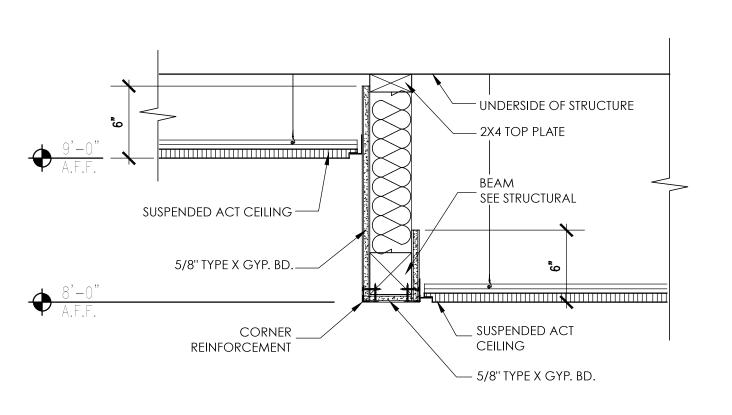
construction

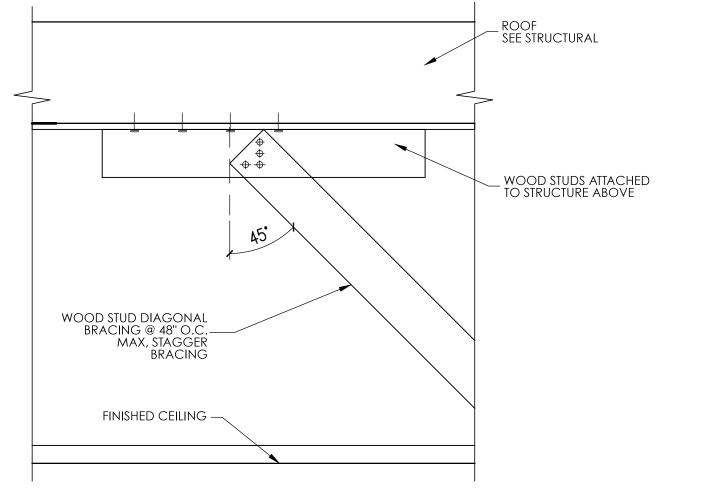
management

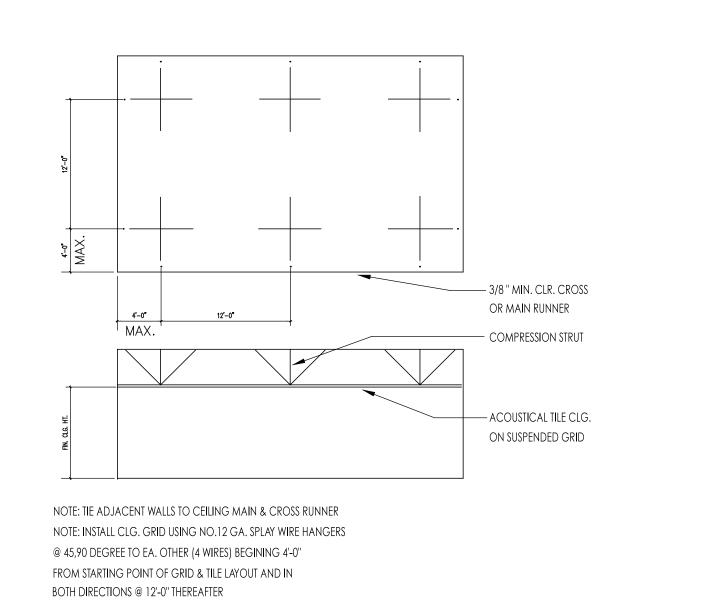
sustainability

A9.1

MILLWORK DETAILS

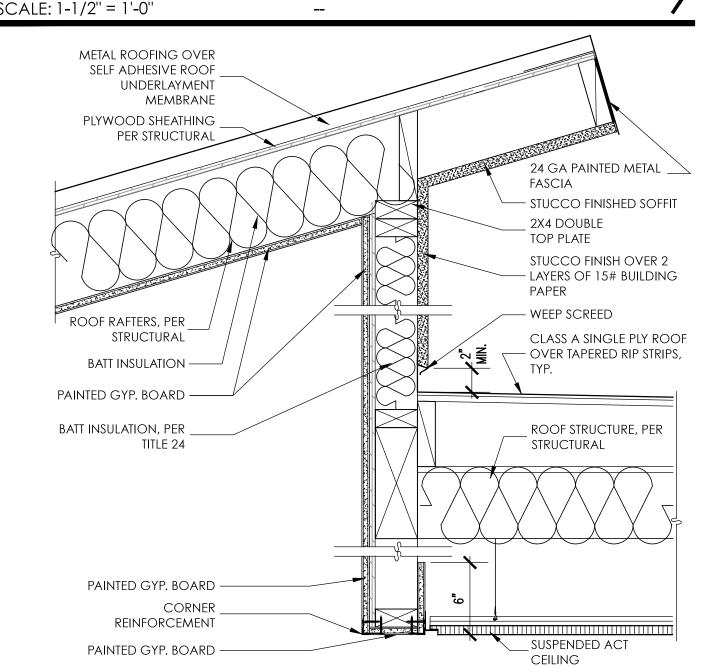




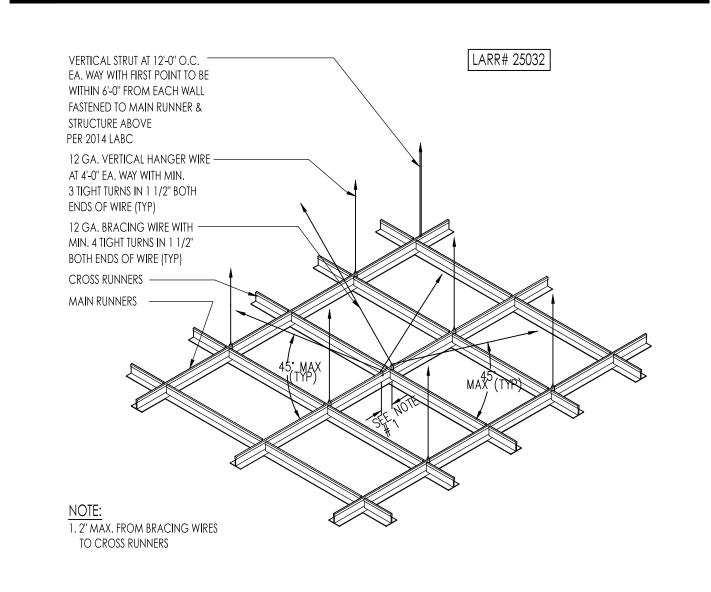


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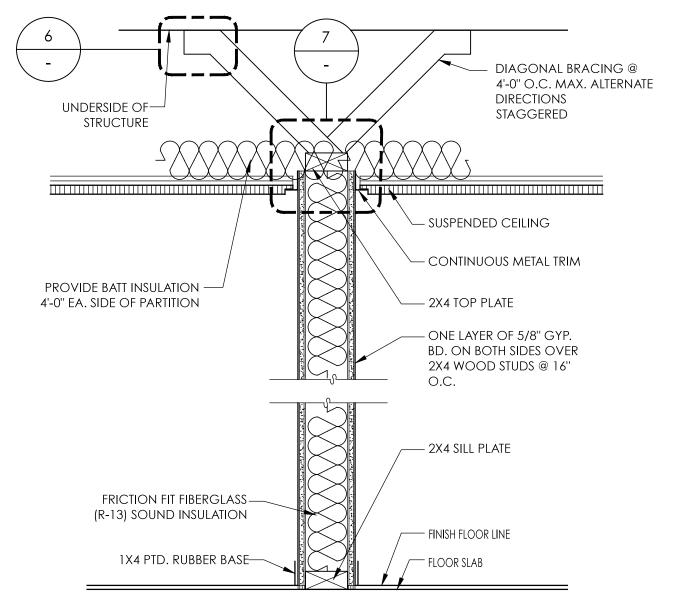




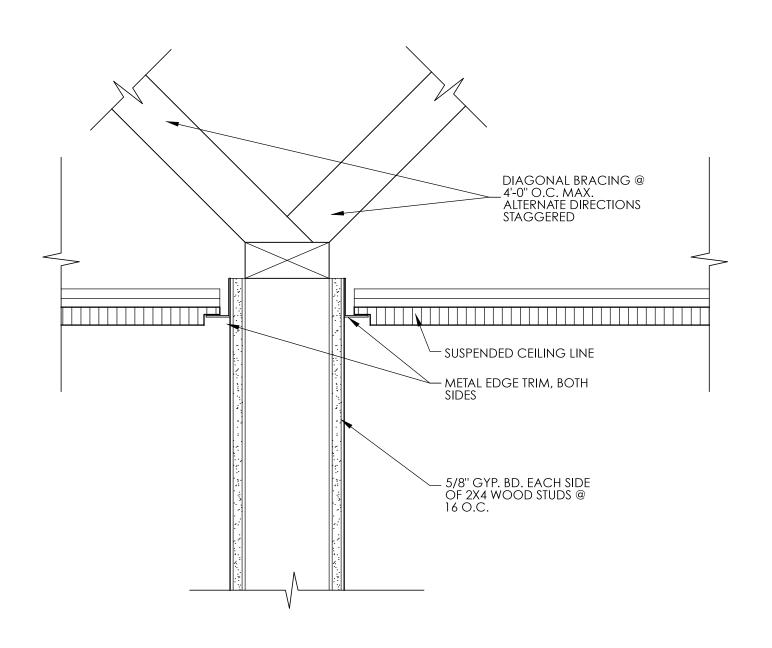
ATTACHMENT AT BRACING



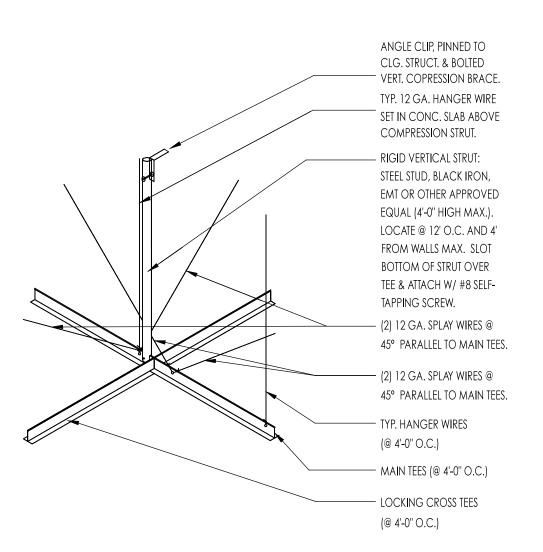
SUSPENDED CEILING BRACING DIAGRAM 3

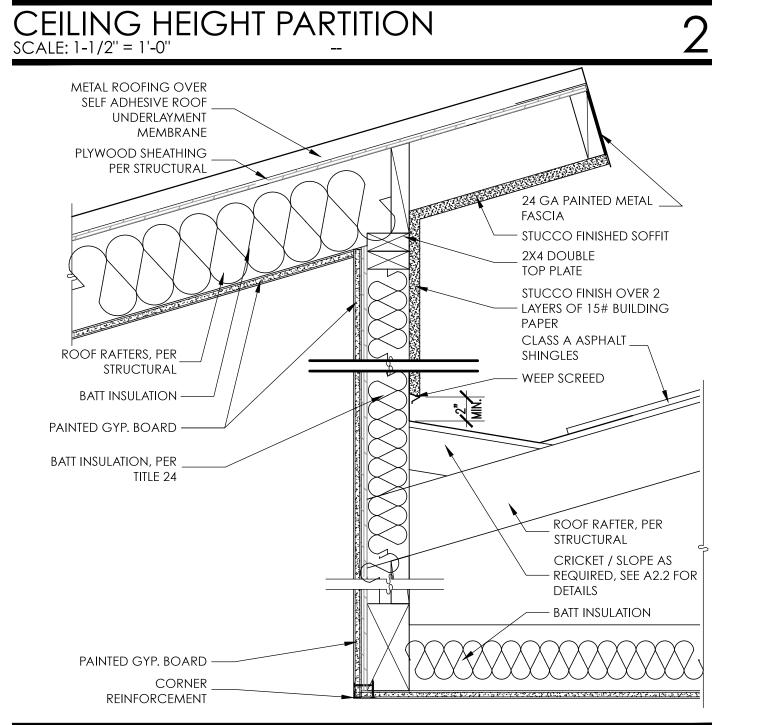


CEILING HEIGHT CHANGE @ HALLWAY



SUSPENDED CEILING GRID SCALE: 3" = 1'-0"





CEILING HEIGHT CHANGE @ HALLWAY

pro O													
drawn by checked by pro-	ı	ı	ı	ı	1	ı							
drawn by	l9	Ш	l9	l9	1	1	1	1	ı	1	1	ı	
remarks	FINISHES PRESENTATION	30% CONSTRUCTION DOCUMENTS	50% CONSTRUCTION DOCUMENTS	PLAN CHECK SUBMITTAL	ı	1						1	
date	01/29/2019	02/15/2019	03/11/2019	03/29/2019	I	1	ı						
# OC													

HANDRAIL AT RAMP SCALE: 1-1/2" = 1'-0"

1 1/2" O.D MAX. PAINTED STEEL HANDRAIL- TYPICAL

1/2" O.D PAINTED STEEL HANDRAIL SUPPORT @ — 6'-0" O.C. MAX.- TYPICAL

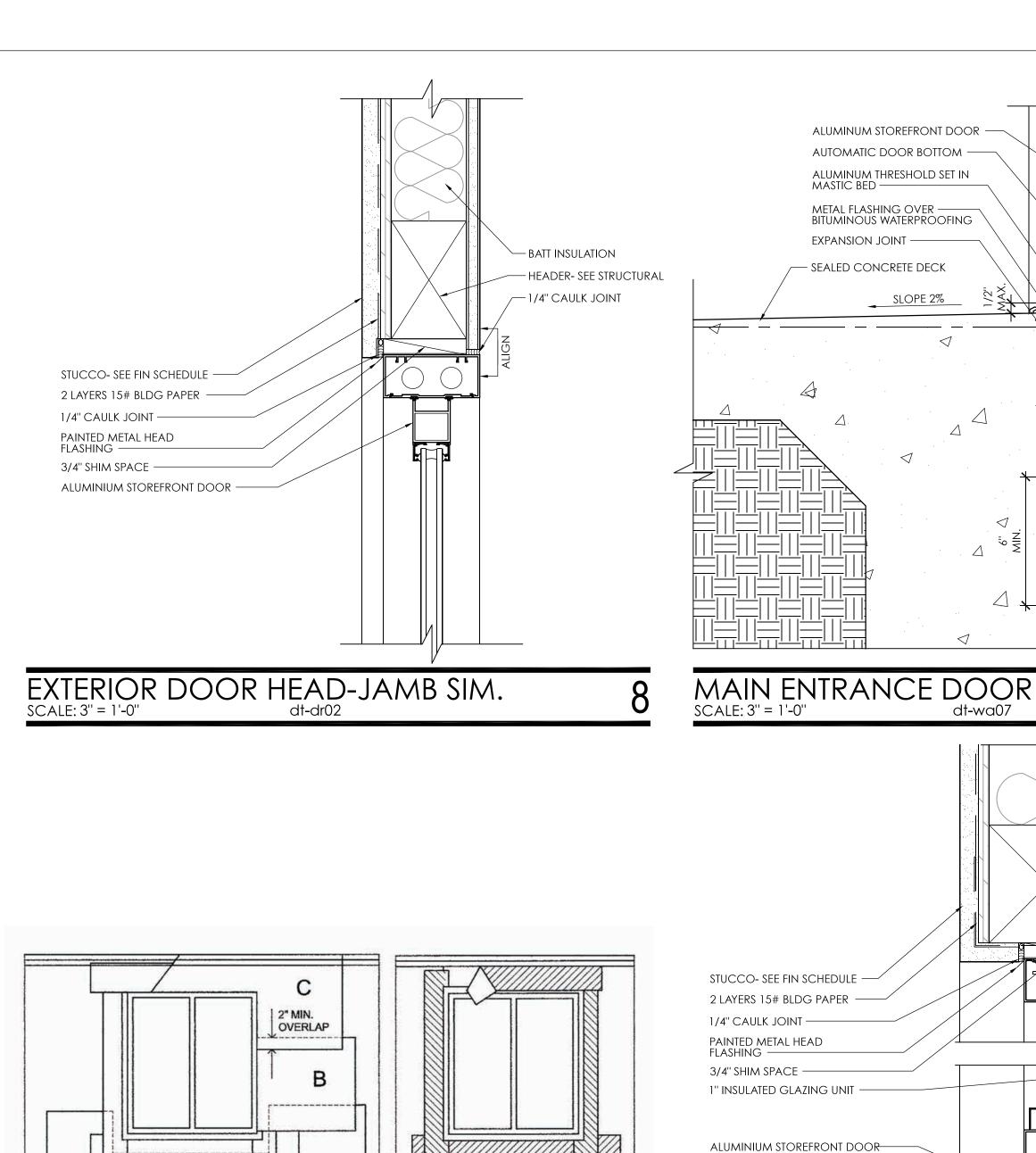
PROVIDE BLOCKING AT SUPPORTS PER STRUCTURAL

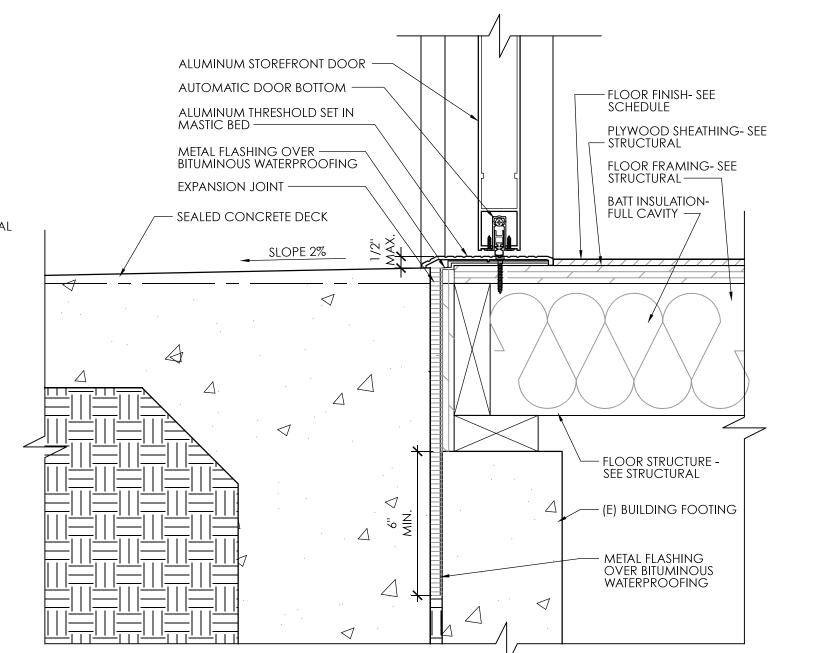
RAMP FLOOR ———

CEILING DETAIL
SCALE: 3" = 1'-0"

SUSPENDED CEILING STRUT BRACING
SCALE: 1-1/2" = 1'-0"

INTERIOR DETAILS





dt-wa07

STOREFRONT DOOR HEAD-JAMB SIM. SCALE: 3" = 1'-0" dt-dr01

ALUMINUM STOREFRONT DOOR —

AUTOMATIC DOOR BOTTOM -

ALUMINUM THRESHOLD SET IN

MASTIC BED —

T.O. SLAB AT INTERIOR ——

SLOPE 2%

EXPANSION JOINT -

(N) ASPHALT WALK - SEE CIVIL —

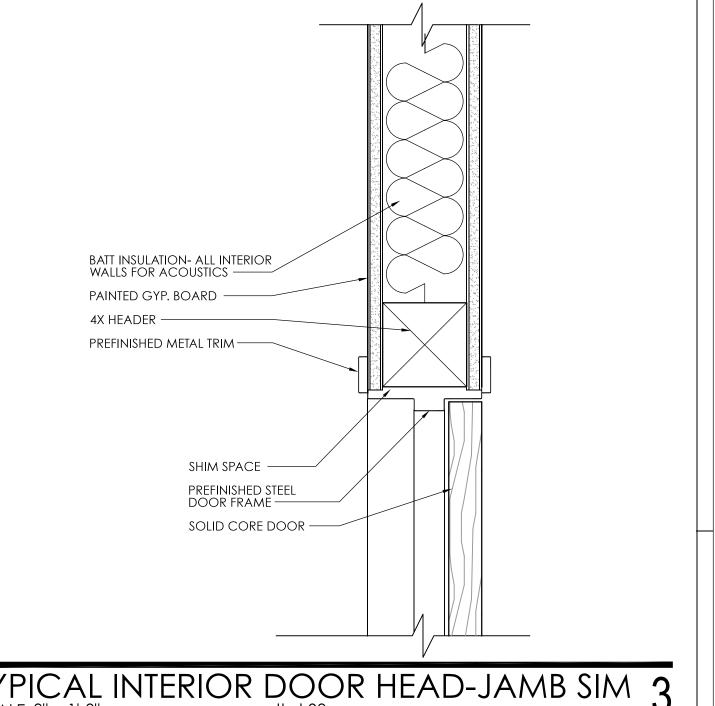
— BATT INSULATION

— 1/4" CAULK JOINT

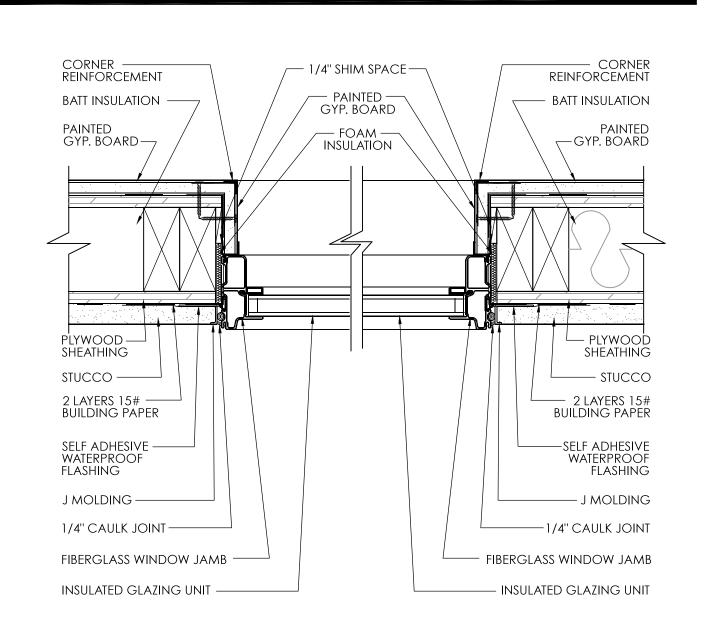
SELF ADHESIVE WATER PROOF FLASHING

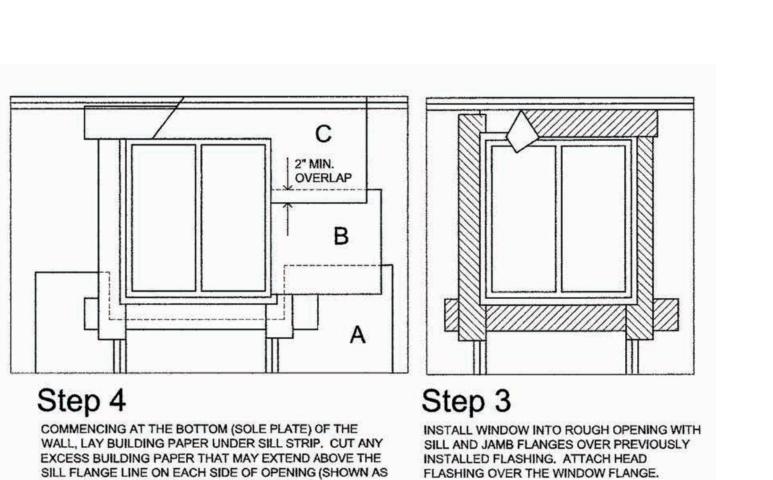
- HEADER- SEE STRUCTURAL

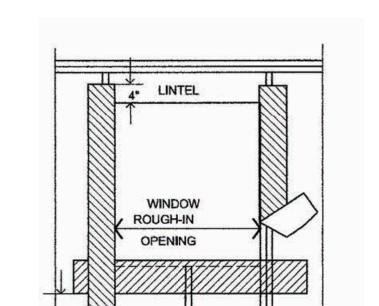
— INTERIOR FLOOR FINISH-SEE FINISH PLAN











DASHED LINE), DO NOT CUT BUILDING PAPER

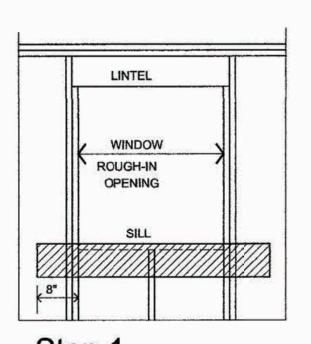
HORIZONTALLY SO THE PAPER WILL LAP OVER THE JAMB

STRIPS, INSTALL SUCCESSIVE LINES OF BUILDING PAPER (B,C,D ETC) OVER JAMB AND HEAD FLANGES, LAPPING

Step 2

EACH COURSE.

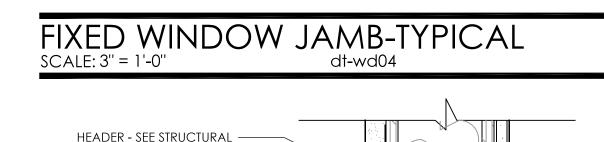
ATTACH JAMB STRIPS WITH SIDE EDGE EVEN WITH ROUGH-JAMB FRAMING. START STRIP 1" BELOW LOWER EDGE OF SILL STRIP AND EXTEND 4" ABOVE LOWER EDGE OF LINTEL.

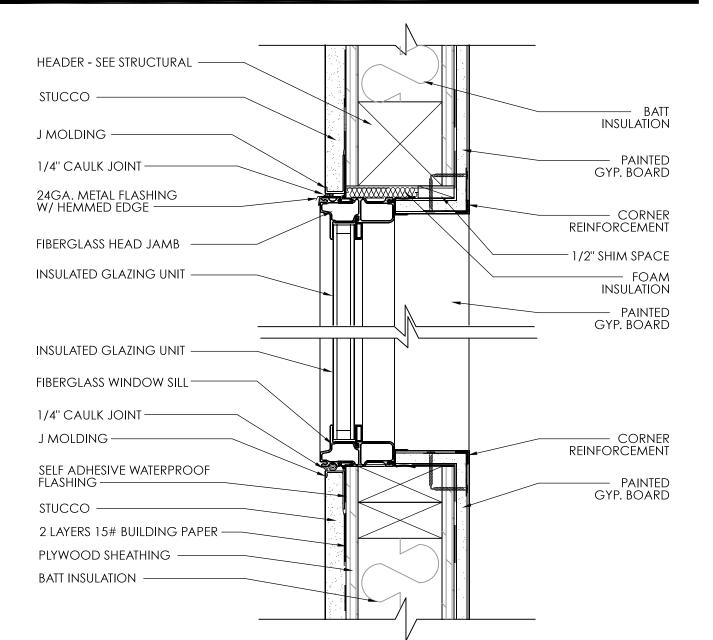


Step 1

ATTACH SILL STRIP WITH TOP EDGE LEVEL WITH ROUGH SILL; EXTEND BEYOND EDGE OF ROUGH OPENING AT LEAST 8". SECURE ALL BUILDING PAPER OR SIMILAR APPROVED FLASHING MATERIAL WITH GALVANIZED NAILS OR POWER DRIVEN STAPLES.

DOOR SILL/THRESHOLD SCALE: 3" = 1'-0"





FIXED WINDOW SILL & HEAD SCALE: 3" = 1'-0"

16 022; 16 EN

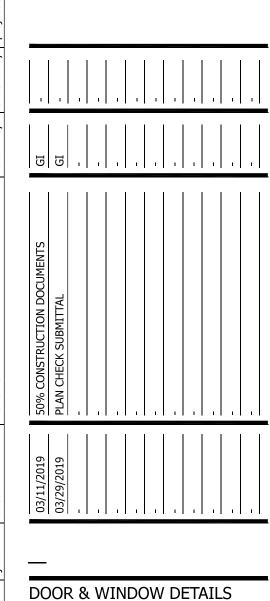
integrated

design

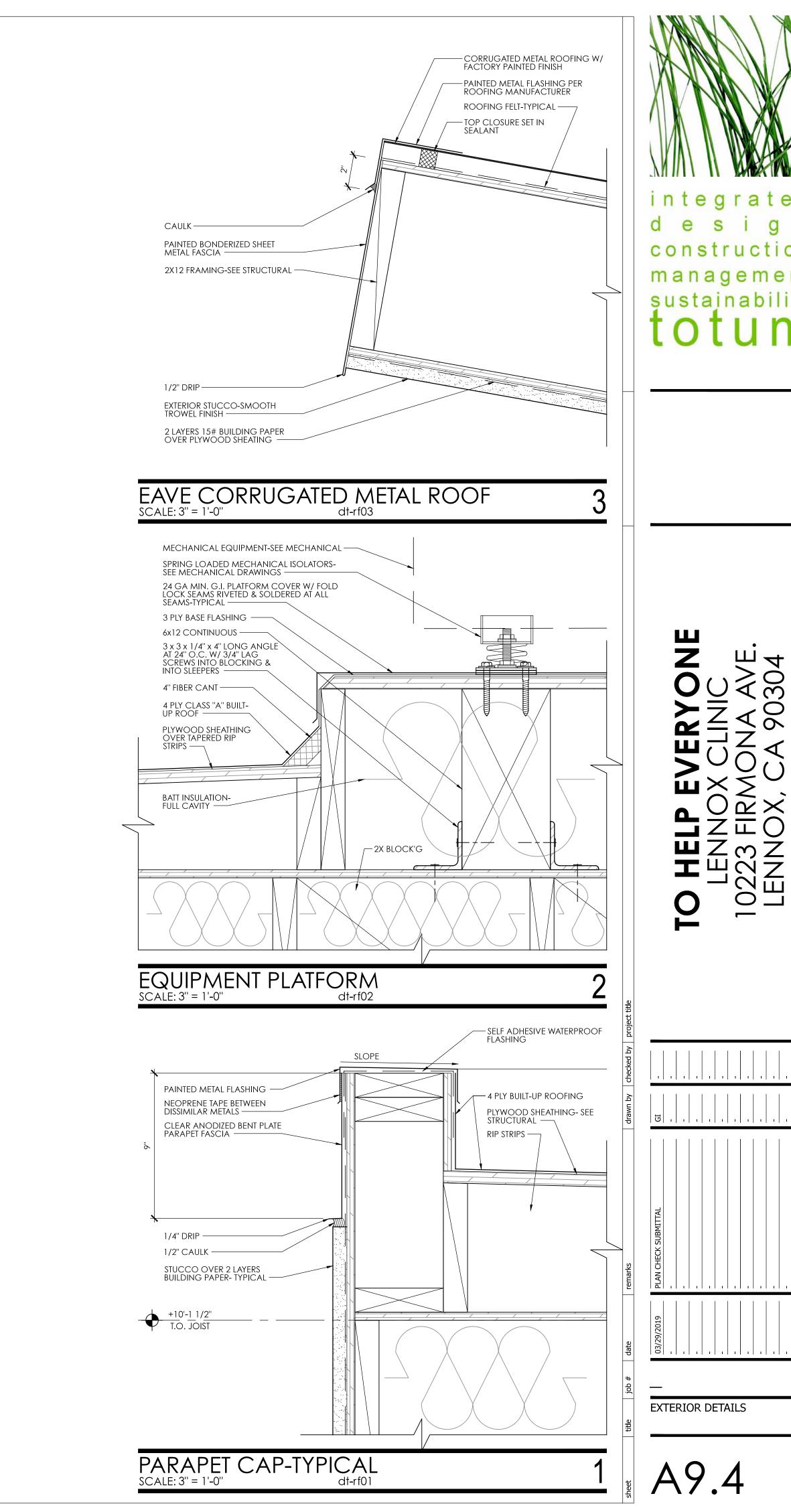
construction

management

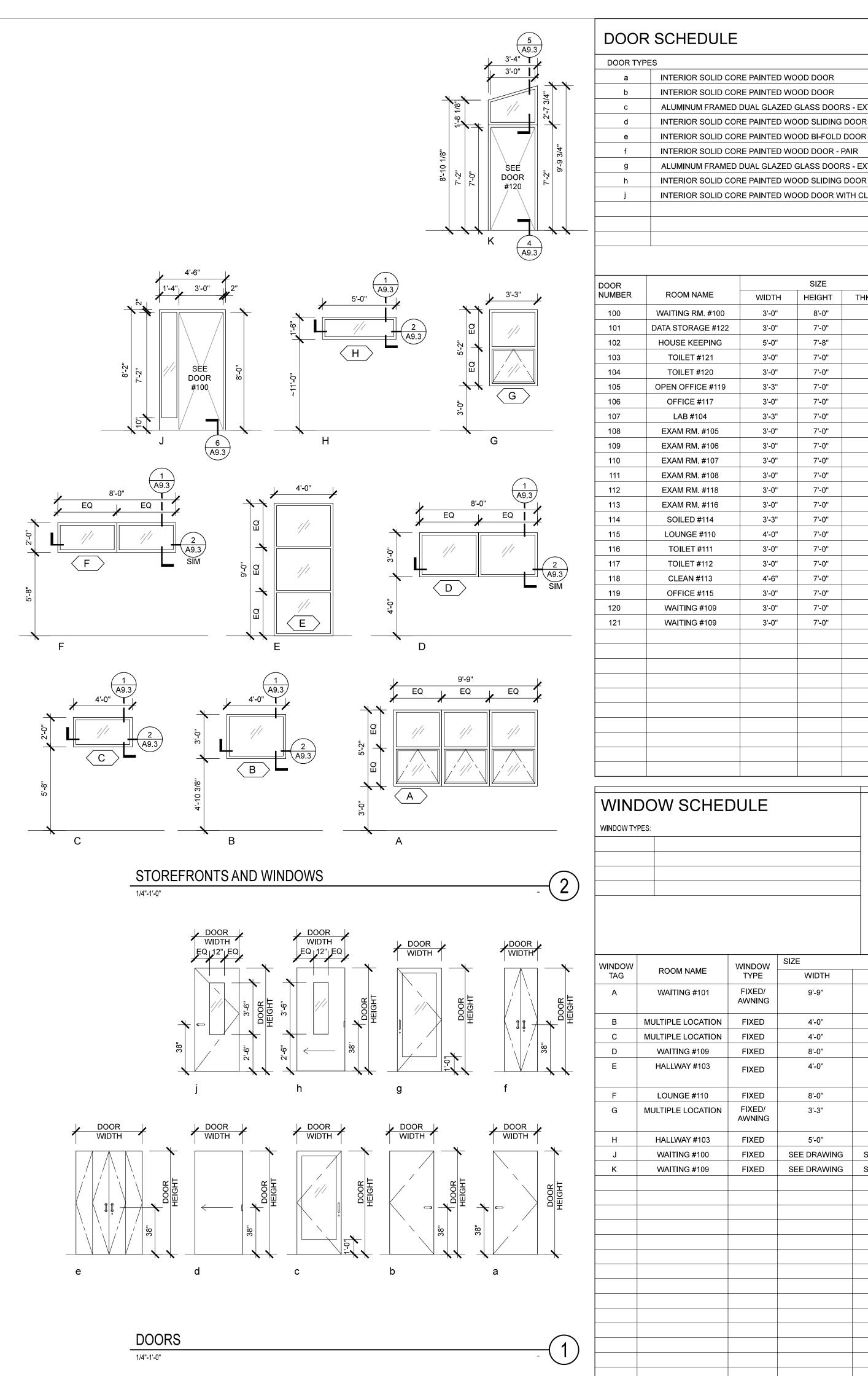
sustainability



WINDOW FLASHING DETAILS SCALE: 3" = 1'-0"



integrated design construction management sustainability



DOOR SCHEDULE NOTES

1. ALUMINUM STOREFRONT SYSTEM TO BE - 2" x 4 1/2" CENTER GLAZED W/ 1" THICK INSULATED GLAZING UNITS AND CLEAR ANODIZED FINISH

2. THIS SCHEDULE IS INTENDED AS A GUIDE. CONTRACTOR TO VERIFY ALL CONDITIONS IN THE

3. ALL GLAZED DOORS TO BE TEMPERED PER 2016 C.B.C. SEC. 2406.

4. COORDINATE JAMB/HEAD DIMENSIONS WITH VARYING WALL THICKNESSES.

5. COORDINATE KEYING OF ALL DOORS WITH OWNER

6. ALL DOOR AND DOOR FRAME SIZES AND ROUGH OPENINGS ARE TO BE MEASURED AND VERIFIED BY CONTRACTOR PRIOR TO ORDERING FROM SUPPLIER.

7. ALL INTERIOR DOOR FRAMES TO BE TIMELY.

8. STOREFRONT SYSTEM AND WINDOWS BY ARCADIA OR SIMILAR.

9. EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. BUILDING CODE 1010.1.9.

DOOR HARDWARE SCHEDULE

INTERIOR DOORS:

- #1 HINGES: IVES 3CB1 652 LOCKSETS: SCHLAGE L9050 W/ 06 LEVER, FINISH 626 CLOSER: LCN 4040 SERIES, FINISH 689
- #2 POWERED LOCKS: SCHLAGE L9080EU WITH POWER SUPPLY PS904
- #3 SLIDING DOORS: LOCKS & PULLS BY TRIMCO 1069 SERIES

EXTERIOR DOORS:

#4 AS PROVIDED BY STOREFRONT MANUFACTURER TO BE APPROVED BY CLIENT

integrated construction management sustainability

DOOR			SIZE					HARDWARE	
NUMBER	ROOM NAME	WIDTH	HEIGHT	THK.	TYPE	MATERIAL	FINISH	GLAZING SET	NOTES
100	WAITING RM. #100	3'-0"	8'-0"		g	TBD		#4	EXTERIOR DOOR - PART OF STOREFRONT J
101	DATA STORAGE #122	3'-0"	7'-0"		b			#1	
102	HOUSE KEEPING	5'-0"	7'-8"		е			#1	
103	TOILET #121	3'-0"	7'-0"		а			#1	
104	TOILET #120	3'-0"	7'-0"		b			#1	
105	OPEN OFFICE #119	3'-3"	7'-0"		h			#3	SLIDING DOOR WITH CLEAR TEMPERED GLASS WINDOW - ADA POCKET DOOR PULL
106	OFFICE #117	3'-0"	7'-0"		j			#1	WINDOW WITH CLEAR TEMPERED GLASS
107	LAB #104	3'-3"	7'-0"		d			#3	SLIDING DOOR - ADA POCKET DOOR PULL
108	EXAM RM. #105	3'-0"	7'-0"		b			#1	
109	EXAM RM. #106	3'-0"	7'-0"		а			#1	
110	EXAM RM. #107	3'-0"	7'-0"		b			#1	
111	EXAM RM. #108	3'-0"	7'-0"		а			#1	
112	EXAM RM. #118	3'-0"	7'-0"		а			#1	
113	EXAM RM. #116	3'-0"	7'-0"		b			#1	
114	SOILED #114	3'-3"	7'-0"		d			#3	SLIDING DOOR - ADA POCKET DOOR PULL
115	LOUNGE #110	4'-0"	7'-0"		d			#3	SLIDING DOOR - ADA POCKET DOOR PULL
116	TOILET #111	3'-0"	7'-0"		а			#1	
117	TOILET #112	3'-0"	7'-0"		b			#1	
118	CLEAN #113	4'-6"	7'-0"		f			#1	
119	OFFICE #115	3'-0"	7'-0"		j			#1	WINDOW WITH CLEAR TEMPERED GLASS
120	WAITING #109	3'-0"	7'-0"		g	TBD		#4	EXTERIOR DOOR - PART OF STOREFRONT K
121	WAITING #109	3'-0"	7'-0"		С	TBD		#4	EXTERIOR DOOR

WINDOW SCHEDULE WINDOW SCHEDULE NOTES

ALUMINUM FRAMED DUAL GLAZED GLASS DOORS - EXTERIOR

ALUMINUM FRAMED DUAL GLAZED GLASS DOORS - EXTERIOR

INTERIOR SOLID CORE PAINTED WOOD SLIDING DOOR WITH CLEAR GLASS INSERT

INTERIOR SOLID CORE PAINTED WOOD DOOR WITH CLEAR GLASS INSERT

INTERIOR SOLID CORE PAINTED WOOD BI-FOLD DOOR

INTERIOR SOLID CORE PAINTED WOOD DOOR - PAIR

1. ALL FIXED GLAZING TO BE MILGARD, MARVIN OR SIMILAR, DUAL GLAZED, ___

2. STOREFRONT SYSTEM AND WINDOWS BY MARVIN, MILGARD OR SIMILAR.

WINDOW		WINDOW	SIZE	•	GLAZING			FRAME	DETAILS	NOTES	WALL SOLE PLATES AND FLOORS, BETWEEN EXTERIOR WALL
TAG	ROOM NAME	TYPE	WIDTH	HEIGHT	FINISH	TYPE	TEMPERED	MATERIAL	FINISH HEAD		5. SEE MANUFACTURER SPECIFICATIONS TO COORDINATE RO AND MULTIPLE ASSEMBLY ROUGH OPENING DIMENSIONS.
Α	WAITING #101	FIXED/ AWNING	9'-9"	5'-2"				FIBERGLASS			6. ALL MITERED GLAZING TO BE MONOLITHIC. SEE NOTE 13 B GLAZING SPEC.
В	MULTIPLE LOCATION	FIXED	4'-0"	3'-0"				FIBERGLASS			
С	MULTIPLE LOCATION	FIXED	4'-0"	2'-0"				FIBERGLASS			7. ALL EMERGENCY EGRESS WINDOWS TO HAVE MIN. 24" CLE MIN. 20" CLEAR WIDTH, MAX. 44" SILL HEIGHT, AND MINIMUM 5.
D	WAITING #109	FIXED	8'-0"	3'-0"				FIBERGLASS			CLEAR AREA PER R310.1
E	HALLWAY #103	FIXED	4'-0"	9'-0"			YES	FIBERGLASS			8. ALL INSULATED GLASS IN WINDOWS SHALL MEET THE FOLI PERFORMANCE DATA: U-FACTOR: 0.39
F	LOUNGE #110	FIXED	8'-0"	2'-0"				FIBERGLASS			SOLAR HEAT GAIN COEFFICIENT (SHG
G	MULTIPLE LOCATION	FIXED/ AWNING	3'-3"	5'-2"				FIBERGLASS			9. ALL INSULATED GLASS IN DOORS SHALL MEET THE FOLLOW PERFORMANCE DATA:
Н	HALLWAY #103	FIXED	5'-0"	1'-6"				FIBERGLASS		CLEARSTORY WINDOWS	U-FACTOR: 0.39 SOLAR HEAT GAIN COEFFICIENT (SHG
J	WAITING #100	FIXED	SEE DRAWING	SEE DRAWING			YES	TBD		STOREFRONT	10. ALL MONOLITHIC GLASS SHALL MEET THE FOLLOWING PE
K	WAITING #109	FIXED	SEE DRAWING	SEE DRAWING			YES	TBD		STOREFRONT	DATA: U-FACTOR: 1.04 SOLAR HEAT GAIN COEFFICIENT (SHG)

WINDOW SCHEDULE NOTES

1. THIS SCHEDULE IS INTENDED AS A GUIDE ONLY. DIMENSIONS INDICATE UNIT NET OPENING SIZE FOR LIGHT, VENTILATION, AND EGRESS CODE COMPLIANCE. ROUGH OPENING DIMENSIONS ARE NOT PROVIDED IN THIS SCHEDULE. CONTRACTOR TO VERIFY ALL REQUIRED ROUGH OPENINGS PRIOR TO FABRICATION.

2. COORDINATE HEAD AND JAMB DIMENSIONS WALL THICKNESSES PER WALL TYPE DETAILS.

3. APPROVED SAFETY GLASS SHALL BE INSTALLED AT ALL HAZARDOUS LOCATIONS PER THE REQUIREMENTS

4. CAULK AND SEAL AROUND ALL WINDOW AND DOOR FRAMES, BETWEEN WALL SOLE PLATES AND FLOORS, BETWEEN EXTERIOR WALL PANELS. 5. SEE MANUFACTURER SPECIFICATIONS TO COORDINATE ROUGH OPENING

6. ALL MITERED GLAZING TO BE MONOLITHIC. SEE NOTE 13 BELOW FOR

GLAZING SPEC. 7. ALL EMERGENCY EGRESS WINDOWS TO HAVE MIN. 24" CLEAR HEIGHT, MIN. 20" CLEAR WIDTH, MAX. 44" SILL HEIGHT, AND MINIMUM 5.7 SQ. FT.

CLEAR AREA PER R310.1 8. ALL INSULATED GLASS IN WINDOWS SHALL MEET THE FOLLOWING PERFORMANCE DATA:

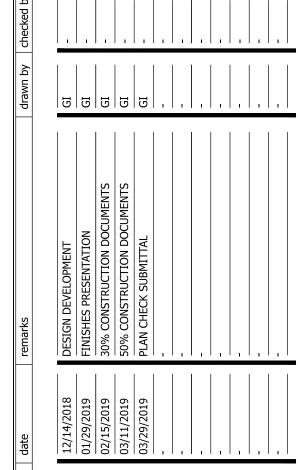
U-FACTOR: 0.39 SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.40

9. ALL INSULATED GLASS IN DOORS SHALL MEET THE FOLLOWING PERFORMANCE DATA:

U-FACTOR: 0.39 SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.35

10. ALL MONOLITHIC GLASS SHALL MEET THE FOLLOWING PERFORMANCE U-FACTOR: 1.04

SOLAR HEAT GAIN COEFFICIENT (SHGC): 0.76



DOOR & WINDOW SCHEDULE

SELECT STRUCTURAL

SHORT SLOTTED HOLES

SQUARE

STAGGER

STAGGER

STIRRUP

STEEL

STANDARD

STIFFENERS

STRUCTURAL

STRUCTURAL

SHEAR WALL

SYMMETRICAL

SQ

SS

SSL

STAGG

STD STGR

STIFF

STIRR

STRUCT

SW

SYM

STRUCT I

FRMG

FTG

GALV

FULL SIZE; FAR SIDE

GLUED LAMINATED BEAM

FRAMING

FOOTING

GALVANIZED

GRADE

GROUND

GRADE BEAM

FOOT; FEET

FULL PENETRATION; FIRE PROOFING

TIE BEAM

TOP OF

THROUGH

THREADED

TOP OF WALL

VERTICAL

W SHAPE WITH WITHOUT WOOD

W SHAPE

ANGLE SHAPE STRUCT TEE SHAPE

TOP AND BOTTOM

TOP OF FOOTING

THICKNESS/THICK

TONGUE & GROOVE

TOP OF CURB; TOP OF CONCRETE

TEMPERATURE; TEMPORARY

TOP OF STEEL/TOP OF SLAB

TAPPERED STEEL GIRDER

UNIFORM BUILDING CODE UNLESS NOTED OTHERWISE

VERTICAL SLOTTED HOLES

WORK POINT; WATERPROOF WEIGHT; STRUCTURAL TEE SHAPE

AMERICAN STD CHANNEL SHAPE

WELDED WIRE FABRIC

MISC CHANNEL SHAPE

STANDARD PIPE SHAPE

STRUCT TUBING SHAPE

EXTRA STRONG PIPE SHAPE

DBL EXTRA STRONG PIPE SHAPE

ULTRA-SONIC TEST

TB

T & B

T & G

TO

TOC TOF

TEMP

THRU

THK

THR

TOS TOW

TSG

TYP

UBC

UNO

VERT

VSH

WWF

WT, ST, MT

PIPE

PIPE-X

PIPE-XX

STRUCTURAL STEEL SHAPES

TOP or T

STEPPED FOOTING

TYPICAL CONCRETE DETAILS

TYPICAL CONCRETE DETAILS

TYPICAL WOOD DETAILS
TYPICAL WOOD DETAILS
WOOD SECTIONS & DETAILS

integrated design construction management t o t u m



	remarks	drawn by	drawn by checked by project	project
I				
	DEVELOPMENT DESIGN			
	PLAN CHECK SUBMITTAL			

SHEET INDEX, SYMBOLS, AND **ABBREVIATIONS**

H or HORIZ	HORIZONTAL	AB	ANCHOR BOLT		SECTION REFERENCE BUBBLE	\$0.0
HDR	HEADER	ACI	AMERICAN CONCRETE INSTITUTE			S0.1 S0.2
HGR	HANGER	ADDL	ADDITIONAL	_		
HGT HOSP	HEIGHT HOSPITAL	ADJ AESS	ADJACENT ARCHITECTURAL EXPOSED STRUCTURAL STEEL			S2.0
HP	HIGH POINT	AGGR	AGGREGATE		DETAIL REFERENCE BUBBLE WITH ARROW	S2.1
HS	HIGH STRENGTH	AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION			\$4.0
HSH HT	HORIZONTALLY SLOTTED HOLES HEIGHT	ALT	ALTERNATE		DETAIL REFERENCE BUBBLE	S 4. 1
HR	HARD ROCK	ALUM ANCH	ALUMINUM ANCHOR		DETAIL REFERENCE BOBBLE	S5.0
ID	INSIDE DIAMETER	ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE			S5.1 S5.2
IF	INSIDE FACE	APA	AMERICIAN PLYWOOD ASSOCIATION			33.2
I–JST	I–JOIST	APPVD	APPROVED		FULL HEIGHT SECTION INDICATOR	
IN INCL	INCH INCLUDE	APPROX	APPROXIMATE	\		
INFO	INFORMATION	ARCH ASTM	ARCHITECTURAL; ARCHITECT AMERICAN SOCIETY FOR TESTING AND MATERIALS			
INSP	INSPECTION	AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION			
INT	INTERIOR	AWS	AMERICAN WELDING SOCIETY		ELEVATION OF WALL OR FRAME	
JST JT	JOIST JOINT	AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION			
K	KIPS	ASTM &	AMERICAN SOCIETY FOR TESTING MATERIALS AND	N		
KSI	KIPS PER SQUARE INCH	@	AT			
LAB	LABORATORY	BLDG	BUILDING		NORTH ARROW	
LB(S) OR #	POUND(S)	BLK	BLOCK		HONTH AMON	
LF LIN	LINEAL FOOT LINEAL; LINEAR	BLKG	BLOCKING			
LLBB	LONG LEGS BACK-TO-BACK	BM	BEAM BOUNDARY MAIL		SLOPE	
LLH	LONG LEG HORIZONTAL	BN BNDRY	BOUNDARY NAIL BOUNDARY		SLOPE	
LLV	LONG LEG VERTICAL	BOT OR B	ВОТТОМ	<u> </u>	EARTH LAYER	
LP	LOW POINT	BRC	BRACE			
LSL LT WT	LONG SLOTTED HOLES LIGHTWEIGHT	BRG	BEARING		STEPPED SURFACE; FLOOR DEPRESSION	
LVL	LEVEL	BT BTWN	BENT BETWEEN	777//,	STEFF ED CONTROL, TECON DE RECOICH	
MAS	MASONRY	CANT	CANTILEVER		0,00000 0,00000	
MATL	MATERIAL	CAN OR C	CAMBER	<u> </u>	SLOPPED SURFACE	
MAX	MAXIMUM	CC	CENTER TO CENTER			
MB	MACHINE BOLT	CG	CENTER OF GRAVITY	2000-00-00-00-00-00-00-00-00-00-00-00-00	INDICATES SAND OR GROUT	
MC MECH	MISCELLANEOUS CHANNEL SHAPE MECHANICAL	CIP	CAST-IN-PLACE	<u> </u>		
MFR	MANUFACTURER	CJ CL	CONSTRUCTION JOINT; CONTROL JOINT CENTER LINE	71900-1900-1900-1900-1900-1900	INDICATES CDAVE	
MIN	MINIMUM; MINUTE	CLR	CLEARANCE; CLEAR		INDICATES GRAVEL	
MISC	MISCELLANEOUS	CMU	CONCRETE MASONRY UNIT			
(N) N	NEW NORTH	COL COMP	COLUMN COMPRESSION		TOP OF SLAB ELEVATION	
NF	NEAR FACE	COMP	CONCRETE		TOP OF SLAB ELEVATION	
NIC	NOT IN CONTRACT	CONN	CONNECTION; CONNECT			
NORM	NORMAL	CONSTR	CONSTRUCTION		WELDED WIRE FABRIC	
NO or # NS	NUMBER NEAR SIDE	CONT CONTR	CONTINUE; CONTINUOUS CONTRACTOR		(WWF LAYER)	
NTS	NOT TO SCALE	CJP	COMPLETE JOINT PENETRATION WELD			
OC	ON CENTER	CTR	CENTER	$\langle x \rangle$	FOOTING TYPE	
OD	OUTSIDE DIAMETER	CTSK CU FT	COUNTERSINK; COUNTERSUNK CUBIC FOOT			
OF OH	OUTSIDE FACE OPPOSITE HAND		PENNY (NAIL OR BAR DIA)			
OPNG	OPENING	d DBL	DOUBLE		INDICATES MASONRY WALLS	
OPP	OPPOSITE OPPOSITE	DEPT	DEPARTMENT			
ORIG OSB	ORIGINAL ORIENTED STRAND BOARD	DET	DETAIL		STEEL TUBE COLUMN	
PARA OR //	PARALLEL	DF DIA OR Ø	DOUGLAS FIR/LARCH DIAMETER			
PC	PRECAST; PIECE	DIAG	DIAGONAL		STEEL PIPE COLUMN	
PERP	PERPENDICULAR	DIAPH	DIAPHRAGM			
PI B	PLYWOOD INDEX PLATE	DIM	DIMENSION	T	WIDE FLANGE STEEL COLUMN	
rc PL	PROPERTY LINE	DN DO	DOWN DITTO (REPEAT)		WIDE FLANGE STEEL COLUMN	
PLF	PONDS PER LINEAL FOOT	DWG	DRAWING	ı		
PLCS PLY	PLACES PLYWOOD	DWL	DOWEL	‡	MEMBER SPLICE	
PROP	PROPERTY	EA	EACH			
PT	POST TENSIONED	EF	EACH FACE	▼ 	TOD OF OTES 1 - 1 - 1 - 1 - 1	
PW PJP	PLATE WASHER PARTIAL JOINT PENETRATION WELD	EJ	EXPANSION JOINT	(+3")	TOP OF STEEL ± ELEVATION	
PREFAB	PREFABRICATED	EL ELEC	ELEVATION ELECTRICAL	FV1	NUMBER OF EVENLY SPACED	
PSF	POUNDS PER SQUARE FOOT	ELEV	ELEVATOR	[X]	SHEAR STUDS	
PSI	POUNDS PER SQUARE INCH	EMBED	EMBEDMENT			
PVC PVMT	POLYVINYL CHLORIDE PAVEMENT	EN	EDGE NAIL	[X-Y-Z]	SPECIAL STUD SPACING SEE TYPICAL	
#	POUND; NUMBER	ENGR EQ	ENGINEER EQUAL OR EQUIVALENT	[]	STEEL DETAILS	
" REF	REFERENCE	EQUIP	EQUIPMENT	<3/4>	BEAM CAMBER AT MID-SPAN	
REINF	REINFORCE; REINFORCING	ES	EACH SIDE			
REQD	REQUIRED	ETC	ET CETERA	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	STEEL IN CROSS SECTION	
RF RW	ROOF RETAINING WALL	EW EXIST or (E)	EACH WAY EXISTING			
ø	ROUND; DIAMETER	EXT	EXTERIOR		DIRECTION OF SPAN	
SCHED	SCHEDULE	FDN	FOUNDATION		DIRECTION OF SEAN	
SECT	SECTION	FF	FAR FACE			
SEP	SEPERATION	FF	FINISHED FLOOR	₩ →	ANGLE BRACE	
SHT SHTG	SHEET SHEATHING	FIN FJ	FINISH FLOOR JOIST	(2L)	DOUBLE 1995 - 1777	
SIM	SIMILAR	FL	FLOOR LINE	←	DOUBLE ANGLE BRACE	
SLBB	SHORT LEGS BACK-TO-BACK	FLG FLR	FLANGE FLOOR		DRAG STRUT CONNECTION	
SOG SN	SLAB ON GRADE SHEAR NAIL	FLK FN	FLOOR FIELD NAIL		DIVIO 211/01 COMMECHOM	
SPCG	SPACING	FOC	FACE OF CONCRETE	—	FULL HEIGHT STIFFENER CONNECTION	
SPECS	SPECIAL	FOM FOS	FACE OF MASONARY FACE OF STUD			
SPCL S0	SPECIAL SQUARF	FOW	FACE OF WALL	—	MOMENT CONNECTION	

REINFORCING STEEL

- 1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM A615 UNO.
- 2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 3. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS PER THE CODE SECTION 1912. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.
- 4. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.
- WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E70XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF "STRUCTURAL WELDING CODE—REINFORCING STEEL", AWS—D1.4, LATEST REVISION AND "STRUCTURAL
- 6. WELDING CODE— STEEL", AWS 1.4, LATEST REVISION. WHERE A CONFLICT OCCURS IN THE CODES THE MORE STRINGENT PROVISION SHALL CONTROL. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.
- 7. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.
- BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.
- 9. CONCRETE PROTECTION FOR REINFORCEMENT:

<u>CAST-IN-PLACE NON PT CONCRETE.</u> THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

<u>LO</u>	CATION OF REINFORCED CONCRETE		TOLERANCE, IN
a.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	COVER, IN.	<u>(+ &/0R -)</u> ±3/8
b.	CONCRETE EXPOSED TO EARTH OR WEATHER:		
	NO. 6 THROUGH NO. 18 BAR	2	±3/8
	NO 5 BAR, W31 OR D31 WIRE & SMALLER	t 1/2	±3/8
c.	CONCRETE NOT EXPOSED TO WEATHEOR IN CONTACT WITH GROUND:	ER	
	SLABS, WALLS, JOISTS	3/4	±1/4
	BEAMS, COLUMNS	1 1/2	±1/4

ONSTRUCTION JOINTS, MECHANICAL BAR SPLICE DEVICES MAY BE USED. MECHANICAL BAR SPLICE DEVICES MAY ALSO BE USED IN LIEU OF LAP SPLICES. SIZES AND TYPES SHOULD BE SELECTED AS INDICATED IN THIS NOTE. TYPE "1" MECHANICAL SPLICE DEVICES MUST DEVELOP AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. SPLICES SHALL BE STAGGERED A MINIMUM OF 2'-0" O.C. TYPE "2" MECHANICAL SPLICES MUST DEVELOP THE LESSER OF 95% OF THE ULTIMATE TENSILE STRENGTH OR 160% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. TYPE "2" SPLICES MUST BE USED FOR SHEAR WALLS AND MOMENT FRAMES, UNLESS NOTED OTHERWISE DEVICE SPECIFICATIONS SHALL BE SUBMITTED FOR APPROVAL BY KPFF.

<u>CONCRETE</u>

- 1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19
 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
- REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD"
- CONCRETE MIXES SHALL BE DESIGNED BY AN APPROVED TESTING LABORATORY AND THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON SECTION 1905 OF THE CODE. CONCRETE MIXES SHALL BE STAMPED AND SIGNED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.
- 4. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II/V.
- 5. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.
- 6. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

 LOCATION IN STRUCTURE

 STRENGTH DENSITY W/C SLUMP

 (PSI) (PSI) (PSI) (PSI)

LOCATION IN STRUCTURE	STRENGTH (PSI)	DENSITY (PCF)	W/C RATIO	SLUMF (in.)
ALL CONC	3000	150	0.50	4

- 7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.
- PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1905
 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4"
 AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW
 CONCRETE IS TO BE PLACED.
- 9. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- 10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THESE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.
- 11. ALL ANCHOR BOLTS INSTALLED IN CONCRETE SHALL CONFORM TO THE ASTM DESIGNATION F-1554, GRADE 36. ALL ANCHOR BOLTS SHALL BE EITHER BENT BAR ANCHOR BOLTS OR HEADED ANCHOR BOLTS. BENT BAR ANCHOR BOLTS SHALL HAVE A HOOK WITH A 90-DEGREE BEND WITH AN INSIDE DIAMETER OF 3 BOLT DIAMETERS, PLUS AN EXTENSION OF ONE AND A HALF BOLT DIAMETERS AT THE FREE END. EMBEDMENT SPECIFIED FOR BENT BAR ANCHOR BOLTS SHALL BE MEASURED PERPENDICULAR FROM THE CONCRETE SURFACE TO THE BEARING SURFACE OF THE BENT BAR MINUS ONE BAR DIAMETER. HEADED ANCHOR BOLTS SHALL HAVE A STANDARD BOLT HEAD. EMBEDMENT SPECIFIED FOR HEADED ANCHOR BOLTS SHALL BE MEASURED PERPENDICULAR FROM THE CONCRETE SURFACE TO THE BEARING SURFACE OF THE BOLT HEAD.
- 12. ALL DRILLED AND EPOXY ANCHOR BOLTS INSTALLED IN CONCRETE SHALL BE THREADED ROD CONFORMING TO THE ASTM DESIGNATION A—36 UNLESS OTHERWISE NOTED.
- 13. CEMENT USED IN THE FOUNDATION OF MIX DESIGN SHALL BE REDUCED BY NOT LESS THAN 20% (MAXIMUM 30%) THROUGH USE OF FLY ASH OR OTHER ACCEPTABLE CEMENT REPLACEMENT PRODUCTS (4.403.2)

STRUCTURAL OBSERVATION

- 1. STRUCTURAL OBSERVATION IS REQUIRED FOR STRUCTURAL SYSTEM IN ACCORDANCE WITH SECTION 1704 OF THE CODE. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATION. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- 2. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM, THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER.

CONSTRUCTION STAGES

ELEMENTS/CONNECTIONS TO BE OBSERVED

A) FOUNDATIONS

REINF/CONC/AB

NAILING/HOLDOWNS

ICC RESEARCH REPORTS

. ADHESIVE (EPOXY) ANCHORS:

SHEAR WALL PANELS

,	
a. HILTI HIT RE-500 V3 ADHESIVE ANCHORS	ESR-3814
b. CIA INJECTION ADHESIVE ADHESIVE	ESR-1702
c. SIMPSON SET XP ADHESIVE	ESR-2508
EXPANSION ANCHORS:	
a. POWERS WEDGE ANCHORS	ESR-2502
b. HILTI KB-TZ CONCRETE ANCHORS	ESR-1917
c. SIMPSON WEDGE-ALL ANCHORS	ESR-1396
WOOD FRAMING METAL STRAPS, HANGERS AND	
HOLD DOWNS: a. SIMPSON	ESR-2330

ESR-2105 ESR-2549

MITEK	ESR-2266
	ESR-2685
	ESR-3445
	MITEK

FOUNDATION

- 1. FOUNDATION DESIGN BASED ON PRESUMPTIVE VALUES OF TABLE 1806.2 IN THE CODE.
- 2. CONTINUOUS AND/OR SPREAD FOOTINGS ARE DESIGNED BASED AN ALLOWABLE VERTICAL BEARING CAPACITY* OF 1,500 PSF AND A PASSIVE EARTH PRESSURE OF 100 PCF.

*ALLOWABLE BEARING MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC LOAD CASES.

- 3. CONTRACTOR TO PROVIDE FOR DE—WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER OR SEEPAGE, IF REQUIRED.
- 4. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES.
- 5. CONTRACTOR TO PROVIDE SURVEY STAKES PRIOR TO FOUNDATION INSPECTION TO VERIFY LOT LINES.
- EXCAVATION FOR FOOTINGS SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO PLACING THE CONCRETE AND REINFORCING CONTRACTOR TO NOTIFY THE INSPECTOR WHEN INSPECTION OF EXCAVATION IS READY. INSPECTOR TO SUBMIT LETTER OF COMPLIANCE.
- FOOTING BACKFILL AND UTILITY TRENCH BACKFILL WITHIN BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN LAYERS IN ACCORDANCE WITH THE SOILS REPORT AND APPROVED BY THE SOILS ENGINEER. FLOODING WILL NOT BE PERMITTED. ALL FILLS USED TO SUPPORT FOUNDATIONS SHALL BE INSPECTED BY THE SOILS ENGINEER REPRESENTATIVE PER CODE SECTION 3317, VOLUME I.
- 8. ALL ABANDONED FOOTINGS, UTILITIES, ETC. SHALL BE REMOVED UNLESS NOTED OTHERWISE. NEW FOOTINGS MUST EXTEND INTO UNDISTURBED SOILS.

<u>GENERAL</u>

- 1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.
- 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
- 4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

 2017 COUNTY OF LOS ANGELES BUILDING (LACC) CODE BASED ON THE 2016 CALIFORNIA
 BUILDING CODE, TITLE 24 C.C.R. AND LATEST REVISIONS REFERED TO HEAR AS "THE 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 & STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.
- 5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:
 - a. SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.
 - b. SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.
 - c. SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.
 - d. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.
 - e. FLOOR AND ROOF FINISHES.
 - f. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
 - a. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.
 - b. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS. CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.
 - c. SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW.
- 9. CONDUITS LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED. NO PIPES SHALL BE EMBEDDED IN STRUCTURAL CONCRETE.
- 10. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
- 11. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- 12. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
- 13. CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC FORCE RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSPECTIONS" SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LA COUNTY INSPECTORS AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM OR COMPONENT PER SEC. 1709.1.
- 14. DESIGN LOADS:

a. <u>LIVE LOADS:</u>

ROOF AREA
FLOOR
CORRIDOR

PARTITIONS

15 PSF (REDUCIBLE) 50 PSF (REDUCIBLE) 100 PSF (NON-REDUCIBLE) 15 PSF

14. WIND ANALYSIS PER CHAPTER 16 DIVISION III OF THE CODE

BASIC WIND SPEED, V_{ult} = 110 MPH

WIND EXPOSURE CATEGORY = B

WIND IMPORTANCE FACTOR = 1.0

COMPONENTS AND CLADDING DESIGN WIND PRESSURE FOR LOW RISE BUILDINGS, H < 60 FT PER ASCE 7-10 SECTION 6.5.12.4.1

EXTERNAL PRESSURE COEFFICIENTS, GCP GIVEN IN ASCE 7-10, FIGURES 6-11 THRU 6-16

INTERNAL PRESSURE COEFFICIENTS, GCPI GIVEN IN ASCE 7-10, FIGURES 6-5

15. SEISMIC ANALYSIS PER CHAPTER 16 OF 2016 LOS CALIFORNIA BUILDING CODE & ASCE 7-10. UTILIZING THE EQUIVALENT LATERAL FORCE PROCEDURE.

SEISMIC LOADS:

SEISMIC CATEGORY = D WOOD BEARING SHEAR WALL SYSTEM $S_S = 1.688$ $S_{DS} = 1.126$ R = 6.5 $C_d = 4.0$ $R_0 = 3.0$

 $F_V = 1.5$ $S_{MS} = 1.688$ $S_{MI} = 0.932$

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GENERAL NOTES

50.1

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONTRUCTION

FROM TABLE 1705.3 OF THE CODE

FROM TABLE 1705.3 OF THE CODE		
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	-	X
 REINFORCING BAR WELDING: a. VERIFY WELD ABILITY OF REINFORCING BARS OTHER THAN ASTM A706; b. INSPECT SINGLE—PASS FILLET WELDS, MAXIMUM ⁵/₁₆"; 	-	X X
AND c. INSPECT ALL OTHER WELDS.	X	
3. INSPECT ANCHORS CAST IN CONCRETE.	_	Х
4. INSPECT ANCHORS POST—INSTALLED IN HARDENED CONCRETE MEMBERS. b a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	v
 MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a. 		X
5. VERIFY USE OF REQUIRED DESIGN MIX.	1	Х
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	Х	-
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	_
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	_	х
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND		-
 b. GROUTING OF BONDED PRESTRESSING TENDONS. 	X	_
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	_	X
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	_	Х
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	_	Х

SPECIAL INSPECTIONS

- 1. THE ITEMS CHECKED WITH A "X" SHALL BE INSPECTED IN ACCORDANCE WITH CBC CHAPTER 17 BY A CERTIFIED INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE PROJECT SPECIFICATIONS, THE SPECIFIC GENERAL NOTES SECTIONS AND THE CODE SECTIONS REFERENCED THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR AND BUILDING OFFICIAL. ANY MATERIALS WHICH FAIL TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
- 2. CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION CBC SECTION 1702. PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING INSPECTION IS IN
- 3. THE STEEL FRAMING SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON THE APPROVED CONSTRUCTION DOCUMENTS, SUCH AS BRACING, STIFFENING, MEMBER LOCATIONS AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
- 4. ALL WELDS SHALL BE VISUALLY INSPECTED.
- 5. ALL COMPLETE PENETRATION WELDS SHALL BE TESTED ULTRASONICALLY OR BY USE OF A COMPARABLE APPROVED METHOD.
- 6. CONTINUOUS INSPECTION IS REQUIRED FOR WELDING OF REINFORCING THAT RESISTS FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, REINFORCEMENT, PERIODIC INSPECTION MAY BE USED FOR OTHER WELDED REINFORCING.
- 7. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
- 8. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REQUIRED FOR FIELD WELDING, CONCRETE STRENGTH f'c > 2500 psi, HIGH STRENGTH BOLTING, SPRAYED-ON FIREPROOFING, ENGINEERED MASONRY, HIGH-LIFT GROUTING, PRE-STRESSED CONCRETE, HIGH LOAD DIAPHRAGMS AND SPECIAL MOMENT-RESISTING CONCRETE FRAMES.

REQUIRED VERIFICATION AND INSPECTION FOR SOILS

FROM TABLE 1705.6 OF THE CODE

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	х
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	_	Х
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	Х	-
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	_	Х

WOOD (CONTINUED)

ALL STRUCTURAL LUMBER SHALL BE DOUGLAS FIR, VISUALLY GRADED OR MACHINE GRADED UNDER THE 1970 LUMBER GRADING RULES OF WEST COAST LUMBER INSPECTION BUREAU. ALL LUMBER SHALL BEAR LEGIBLE IDENTIFICATION STAMP. ALL FRAMING MEMBERS SHALL BE AS FOLLOWS:

THICKNESS GRADE 2" NOM. AND SMALLER GRADE NO. 2 LARGER THAN 2" NOM. GRADE NO. 1 (EXCEPT AS SHOWN ON PLANS)

- LUMBER SHALL BE DRY AND WELL SEASONED, AND THE MOISTURE CONTENT SHALL NOT EXCEED 19%.
- 4. ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY SHALL BE NATURALLY DURABLE OR PRESERVATIVE—TREADED. FIELD—CUT ENDS. NOTCHES AND DRILLED HOLES OF PRESERVATIVE TREADED WOOD SHALL BE FIELD-TREATED PER AWPA M4.
- ALL STRUCTURAL PLYWOOD SHEATHING SHALL BE DOUGLAS FIR STANDARD GRADE STRUCTURAL I WITH EXTERIOR GLUE CONFORMING TO THE LATEST EDITION OF PS 1, U.N.O. ALL PANELS SHALL BEAR LEGIBLE DFPA STAMPS.
- ALL SHEARWALL SHEATHING AND NAILING SHALL BE APPROVED BY THE BUILDING INSPECTOR BEFORE COVERING.
- ALL SHEATHING SHALL BE LAID FACE GRAIN PERPENDICULAR TO FRAMING UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL BOLTS FOR WOOD MEMBERS EXCLUDING ANCHOR BOLTS (A.B.) CALLED OUT ON DRAWINGS SHALL CONFORM TO THE ASTM DESIGNATION A-307.
- ALL ANCHOR BOLTS (A.B.) CALLED OUT ON DRAWINGS, INCLUDING HOLDOWN STUD/POST THRU BOLTS SHALL HAVE STEEL SQUARE PLATE WASHERS AS LISTED BELOW UNDER THE HEAD AND/OR NUT BEARING ON WOOD.

BOLT DIAMETER 1/2" 5/8" 3/4" 7/8" 1" WASHER THICKNESS 3/16" 1/4" 5/16" 5/16" 3/8" WASHER WIDTH 2" 2 1/2" 2 3/4" 3" 3 1/2"

- ALL BOLTS CALLED OUT ON DRAWINGS, EXCEPT AS SPECIFIED IN NOTE 9 SHALL HAVE STANDARD STEEL WASHERS UNDER THE HEAD AND/OR NUT WHERE THE HEAD AND/OR NUT IS BEARING ON WOOD.
- 11. ALL HOLDOWN BOLTS SHALL BE RETIGHTENED BEFORE CLOSING-IN.
- 12. ALL WALLS SHALL HAVE BRACING PROVIDED BY ONE OF THE METHODS REQUIRED BY CODE SECTION 2320.11.3.
- 13. PROVIDE DOUBLE JOISTS UNDER PARTITIONS WHICH ARE PARALLEL TO THE JOISTS.
- 14. PROVIDE SOLID. FULL BLOCKING UNDER PARTITIONS WHICH ARE PERPENDICULAR TO THE JOISTS.
- ALL POSTS TO TOP OR BOTTOM PLATE CONNECTION SHALL BE SIMP. A34 EA. SIDE (U.N.O.) IF POST IS AT END OF PLATE (2) 16d TOE NAILS MAY BE SUBSTITUTED AT THAT POST EDGE ONLY.
- 16. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION FOR EACH PROJECT AND THE APPROVAL BY THE PROJECT ARCHITECT OR STRUCTURAL ENGINEER AND THE BUILDING DEPARTMENT. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. MACHINE NAILING WILL NOT BE APPROVED IN 5/16" PLYWOOD. IF NAIL HEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- 17. FRAMING ACCESSORIES AND STRUCTURAL FASTENERS SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE (OR ENGINEER APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. HARDWARE SHALL BE FULLY NAILED FOR MAXIMUM CAPACITY, UNLESS NOTED OTHERWISE. HANGERS NOT SHOWN SHALL BE SIMPSON HU OR HW OF SIZE RECOMMENDED FOR MEMBER.
- 18. HOLD-DOWN CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE APPROVED PLATE WASHERS; AND HOLD-DOWNS SHALL BE FINGER TIGHT AND 1/2 WRENCH TURN JUST PRIOR TO COVERING THE WALL FRAMING. CONNECTOR BOLTS INTO WOOD FRAMING REQUIRE STEEL PLATE WASHERS ON THEMANUFACTURED BY SIMPSON STRONG-TIE (OR ENGINEER APPROVED POST ON THE OPPOSITE SIDE OF THE ÀNCHORAGE DEVICE. PLATE SIZE SHALL BE A MINIMUM OF 0.299 INCH BY 3 INCHES BY 3 INCHES.
- 19. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING. FACE GRAIN OF PLYWOOD SHALL BE PERENDICULAR TO SUPPORTS. FLOOR SHALL HAVE TONGUE AND GROOVE OR BLOCKED PANEL EDGES. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7.
- 20. ALL DIAPHRAGM AND SHEAR WALL NAILING SHALL UTILIZE COMMON NAILS OR GALVANIZED BOX.
- 21. ALL BOLT HOLES SHALL BE DRILLED 1/32" TO 1/16" OVERSIZED. NAILS OR GALVANIZED BOX.
- 22. HOLD-DOWN HARDWARE MUST BE SECURED IN PLACE PRIOR TO FOUNDATION INSPECTION.
- 23. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL BE TESTED AND SHALL NOT BE ENCLOSED UNTIL IT IS INSPECTED AND FOUND TO BE SATISFACTORY BY THE BUILDING INSPECTOR. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19% MOISTURE CONTENT. MOISTURE TESTING SHALL BE CONDUCTED BASED ON THE PROBE-TYPE OR CONTACT-TYPE TESTING METHODS. MOISTURE READINGS SHALL BE TAKEN AT A POINT 2-FEET AND 4-FEET FROM THE GRADE STAMPED END OF EACH PIECE TO BE VERIFIED. AT LEAST THREE RANDOM MOISTURE READINGS SHALL BE PERFORMED ON WALL AND WOOD FRAMING WITH DOCUMENTATION ACCEPTABLE TO THE CITY PROVIDED AT THE TIME OF APPROVAL TO ENCLOSURE WALL AND FLOOR FRAMING (4.505.3)

<u>WOOD</u>

UNLESS OTHERWISE DETAILED OR SPECIFIED ON THE PLANS ALL NAILING SHALL CONFORM TO THE FOLLOWING TABLE

NAILIN	IG SHALL CONFORM TO THE FOLLOWING TABLE :		
CONNE	ECTION	NAIL	ING
1.	JOIST TO SILL OR GIRDER, TOENAIL (T.N.)	3-	-8d
2.	BRIDGING TO JOIST, T.N. EA. END	2-	-8d
3.	1"x6" SUBFLOOR OR LESS TO EA. JOIST, FACE NAIL (F.N.)	2-	-8d
4.	WIDER THAN 1"x6" SUBFLOOR TO EA. JOIST, F.N.	3-	-8d
5.	2" SUBFLOOR TO JOIST OR GIRDER, BLIND AND F.N.	2-	16d
6.	SOLE PL TO JOIST OR BLK'G, TYP F.N. 16d SOLE PL TO JOIST OR BLK'G, AT BRACED 3–16d I WALL PANELS	@16 ⁸ PER	
7.	TOP PL TO STUD, END NAIL (E.N.)	2-	16d
8.	STUD TO SOLE PL 4-8d, T.N. OR 2-1	6d, I	E.N.
9.	DOUBLE STUDS, F.N. 16d	@ 24	oc.
10.	DOUBLE TOP PLs, TYPICAL F.N. 16d DOUBLE TOP PLs LAP SPLICE	@16 8-	"OC 16d
11.	BLK'G BETWEEN JOISTS OR RAFTERS TO TOP PL, T.N.	3-	-8d
12.	RIM JOIST TO TOP PL, T.N. 8d	AT 6	"0C
13.	TOP PLs, LAPS AND INTERSECTIONS, F.N.	2-	16d
14.	CONTINUOUS HEADER, TWO PIECES 16d @16"OC ALONG E	A. El	OGE
15.	CEILING JOISTS TO PL, T.N.	3-	-8d
16.	CONTINUOUS HEADER TO STUD, T.N.	4-	-8d
17.	CEILING JOIST, LAPS OVER PARTITIONS, F.N.	3–	16d
18.	CEILING JOISTS TO PARALLEL RAFTERS, F.N.	3–	16d
19.	RAFTER TO PL, T.N.	3-	-8d
20.	1" BRACE TO EA. STUD AND PL, F.N.	2-	-8d
21.	1"x8" SHT'G OR LESS TO EA. BEARING, F.N.	2-	-8d
22.	WIDER THAN 1"x8" SHT'G TO EA. BEARING, F.N.	3-	-8d
23.	BUILT-UP CORNER STUDS 16d ©	24	"OC
24.	BUILT-UP GIRDER AND BEAMS 20d @2"OC @ T&B AND STA 2-20d @ ENDS AND @ EA.		
25.	2" PLANKS 2-16d @ EA.	BEAR	RING
26.	7/8" TO 1" ' 1 1/8" TO 1 1/4" 10c COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING) 3/4" AND LESS 7/8" TO 1"	i⁴ OR i⁴ OR ::	8d 6d 6d 8d
27.	PANEL SIDING (TO FRAMING): ² 1/2" OR LESS 5/8"		6d 8d
28.		o.11	ga 6d ga
	25/32" N	o.11 lo.16	ga 8d
29.	INTERIOR PANELING 1/4" 3/8"		4d 6d

FUUTINUTES

- 1 THIS NAILING SCHEDULE SHALL ONLY BE USED IF CONDITION IS NOT OTHERWISE DETAILED OR SPECIFIED ON THE CONSTRUCTION DOCUMENTS. COMMON NAILS SHALL BE USED EXCEPT WHERE OTHERWISE STATED.
- ² NAILS SPACED AT 6" ON CENTER AT EDGES, 12" AT INTERMEDIATE SUPPORTS EXCEPT 6" AT ALL SUPPORTS WHERE SPANS ARE 48" OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLEBOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTIONS OF THE CODE.
- ³ COMMON OR DEFORMED SHANK.
- ⁴ COMMON.
- ⁵ DEFORMED SHANK.
- ⁶ CORROSION-RESISTANT SIDING OR CASING NAILS CONFORMING TO THE REQUIREMENTS OF THE CODE.
- ⁷ FASTENERS SPACED 3 INCHES ON CENTER AT EXTERIOR EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS.
- ⁸ CORRISION-RESISTANT ROOFING NAILS WITH 7/16" Ø HEAD AND 1 1/4" LENGTH FOR 1/2" SHT'G AND 1 1/2" LENGTH FOR 25/32" SHT'G CONFORMING TO THE REQUIREMENTS OF THE CODE.
- 9 CORROSION-RESISTANT STAPLES WITH NOMINAL 7/16" CROWN AND 1 1/8" LENGTH FOR 1/2" SHEATHING AND 1 1/2" LENGTH FOR 25/32" SHT'G CONFORMING TO THE REQUIREMENTS OF THE CODE.
- ¹⁰ PANEL SUPPORTS AT 16" [20" IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED]. CASING OR FINISH NAILS SPACED ON 6" PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.
- ¹¹ PANEL SUPPORTS AT 24". CASING OR FINISH NAILS SPACED 6" ON PANEL EDGES, 12" AT INTERMEDIATE SUPPORTS.

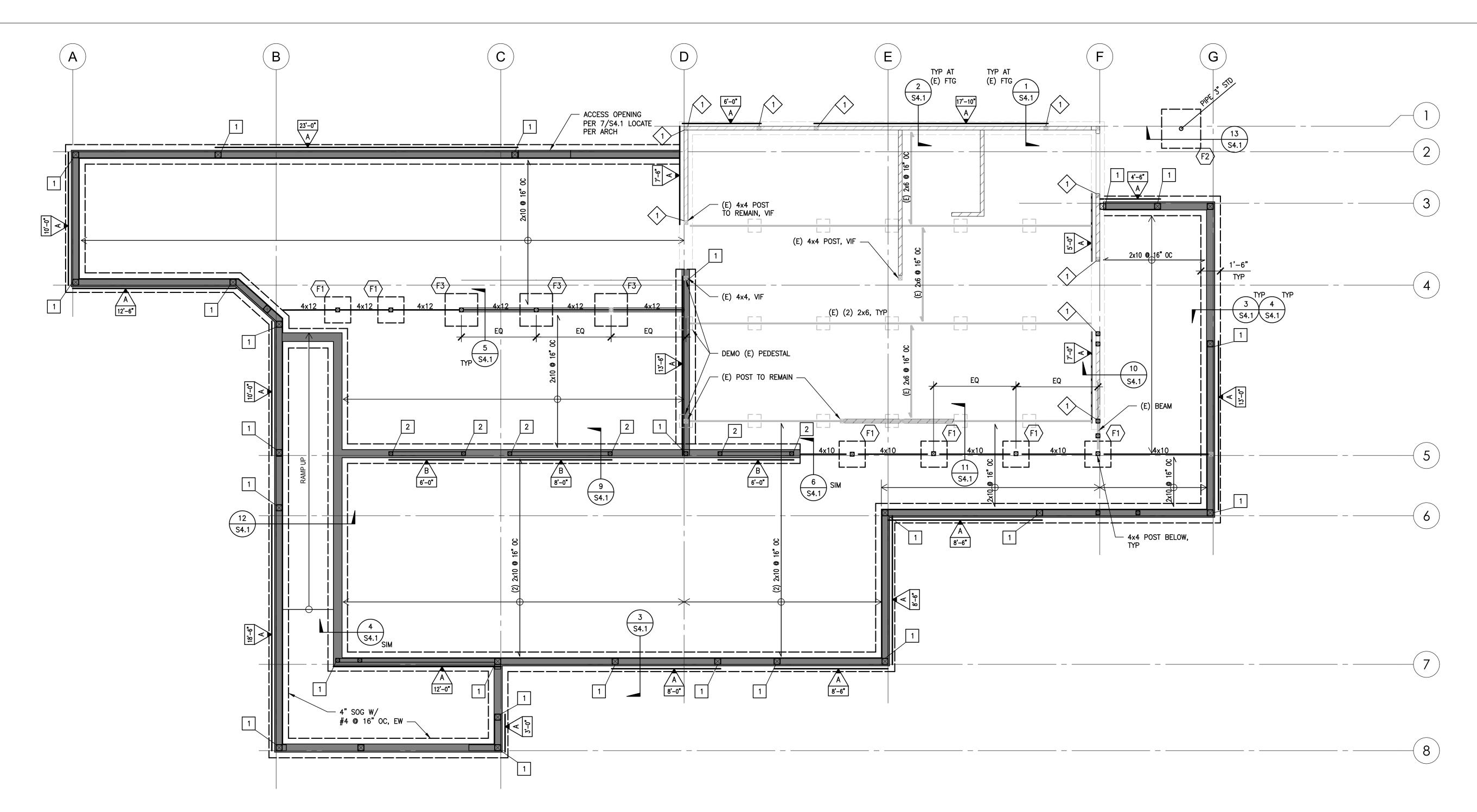


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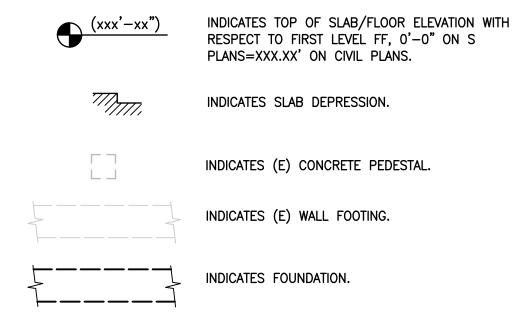
GENERAL NOTES

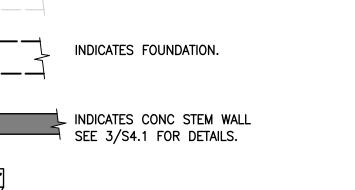


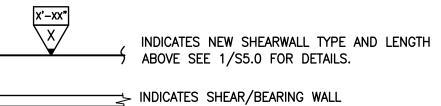
PLAN NOTES:

- 1. SEE SHEET SO.1 & SO.2 FOR GENERAL NOTES.
- 2. SEE SHEET S4.0, 4.1 FOR TYPICAL CONCRETE DETAILS.
- 3 SEE SHEET S5.0, & S5.1 FOR TYPICAL WOOD DETAILS.
- 4. ALL SLAB OPENINGS AND DEPRESSIONS SHALL BE LOCATED AND COORDINATED PER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING
- 5. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR CURB HEIGHTS, SLAB LEVEL, MEP EQUIPMENT PADS, SHAFT OPENING LOCATIONS AND DIMENSIONS NOT SHOWN.
- 6. FLOOR SHEATHING: 3/4" T&G CDX PLY WITH 10d @ 6/6/12, PROVIDE FLAT 2x4 BLKG AT ALL SHEATHING EDGES NOT SUPPORTED BY FRAMING, SEE 5/S5.0 FOR DETAILS.









SEE 3/S5.0 FOR DETAILS. → INDICATES NON-BEARING WALL, SEE 2/S5.0 FOR DETAILS. INDICATES EXISTING WALL FRAMING TO REMAIN, SEE ARCH.

HDR INDICATES WOOD HEADER, SEE 2/S5.0 & 3/S5.0 FOR SCHED.

INDICATES HOLD DOWN, SEE 8/S4.1 & 1/S4.1 INDICATES WOOD JOIST DIRECTION. INDICATES WOOD POST BELOW. - INDICATES QUANTITY OF STRAPS CMST14, SEE DETAIL -/-. INDICATES DBL 2x CONT. BLK'G W/ SIMP. - INDICATES QUANTITY OF STRAPS

INDICATES BEAM PER PLAN OR DBL 2x JOIST W/ SIMP. CMST14, SEE DETAIL -/-.

INDICATES DOUBLE TOP PLATE SPLICE PER 4/S5.0

FIRST FLOOR FRAMING PLAN

FOUNDATION AND FIRST FLOOR FRAMING PLAN SCALE: 1/4"=1'-0"

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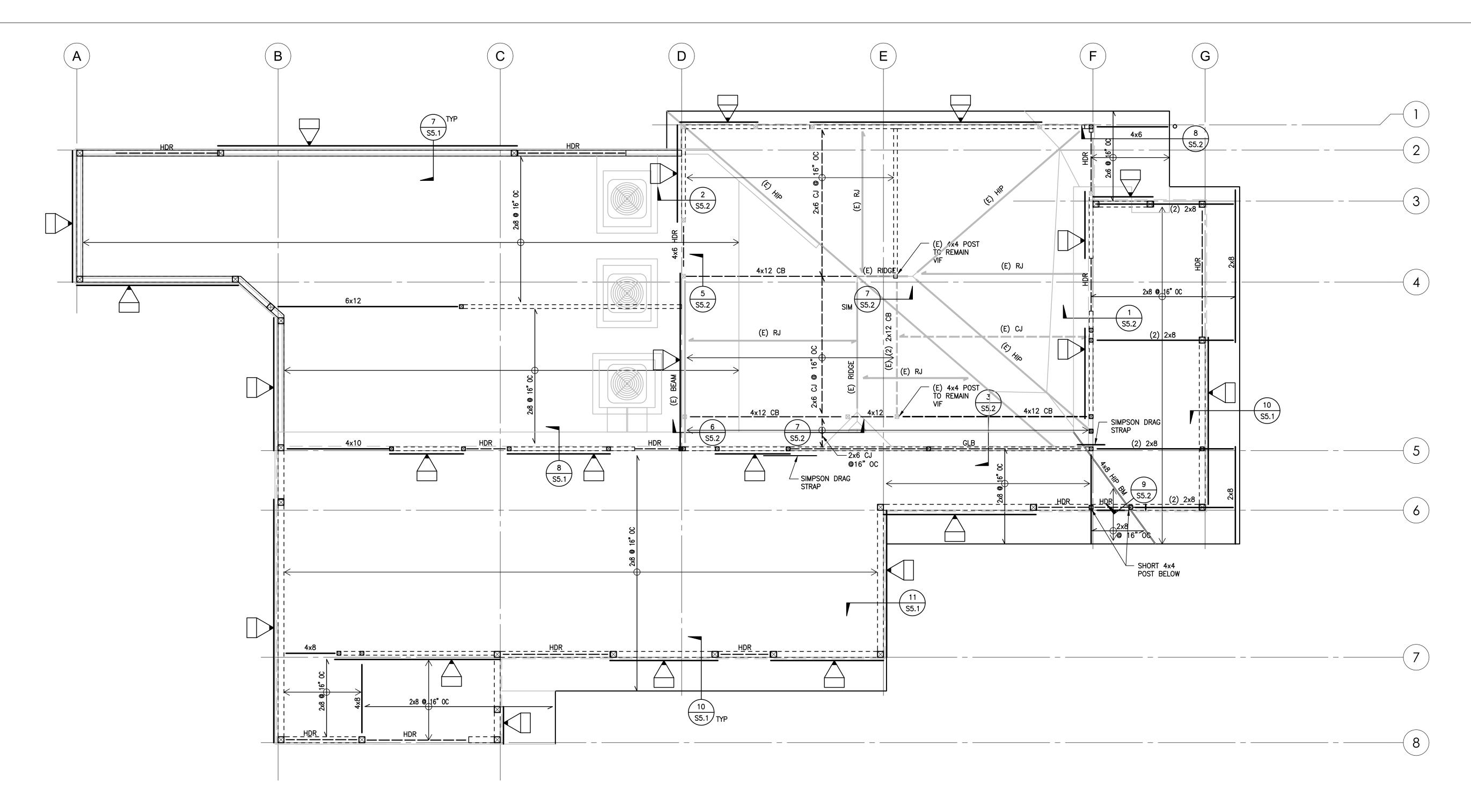
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FOUNDATION AND



PLAN NOTES:

- 1. SEE SHEET SO.1 & SO.2 FOR GENERAL NOTES.
- 2. SEE SHEET S4.0, 4.1 FOR TYPICAL CONCRETE DETAILS.
- 3 SEE SHEET S5.0, & S5.1 FOR TYPICAL WOOD DETAILS.
- 4. ALL SLAB OPENINGS AND DEPRESSIONS SHALL BE LOCATED AND COORDINATED PER ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
- 5. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR CURB HEIGHTS, SLAB LEVEL, MEP EQUIPMENT PADS, SHAFT OPENING LOCATIONS AND DIMENSIONS NOT SHOWN.
- 6. ROOF SHEATHING:
 3/4" T&G CDX PLY WITH 8d @ 6/6/12, PROVIDE FLAT 2x4 BLKG AT
 ALL SHEATHING EDGES NOT SUPPORTED BY FRAMING, SEE 5/S5.0 FOR
 DETAILS.

LEGEND:

(xxx'-xx") INDICATES TOP OF SLAB/FLOOR ELEVATION WITH RESPECT TO FIRST LEVEL FF, 0'-0" ON S PLANS=XXX.XX' ON CIVIL PLANS.

INDICATES (E) CONCRETE PEDESTAL.

INDICATES (E) WALL FOOTING.

indicates foundation.

INDICATES SHEAR/BEARING WALL SEE 3/S5.0 FOR DETAILS.

INDICATES SHEAR/BEARING WALL
SEE 3/S5.0 FOR DETAILS.

INDICATES SHEARWALL PER FLOOR/FOUNDATION PLAN.

INDICATES NON-BEARING WALL, SEE 2/S5.0 FOR DETAILS.

INDICATES EXISTING WALL FRAMING TO REMAIN, SEE ARCH.

HDR INDICATES WOOD HEADER, SEE 2/S5.0 & 3/S5.0 FOR SCHED.

INDICATES HOLD DOWN, SEE 8/S4.1

INDICATES WOOD JOIST DIRECTION.

INDICATES WOOD POST BELOW.

INDICATES QUANTITY OF STRAPS

INDICATES DBL 2x CONT. BLK'G W/ SIMP.
CMST14, SEE DETAIL -/-.

INDICATES QUANTITY OF STRAPS

INDICATES BEAM PER PLAN OR DBL 2x JOIST
W/ SIMP. CMST14, SEE DETAIL -/-.

INDICATES DOUBLE TOP PLATE SPLICE PER 4/S5.0

ROOF FRAMING PLAN

S2.1

ROOF FRAMING PLAN

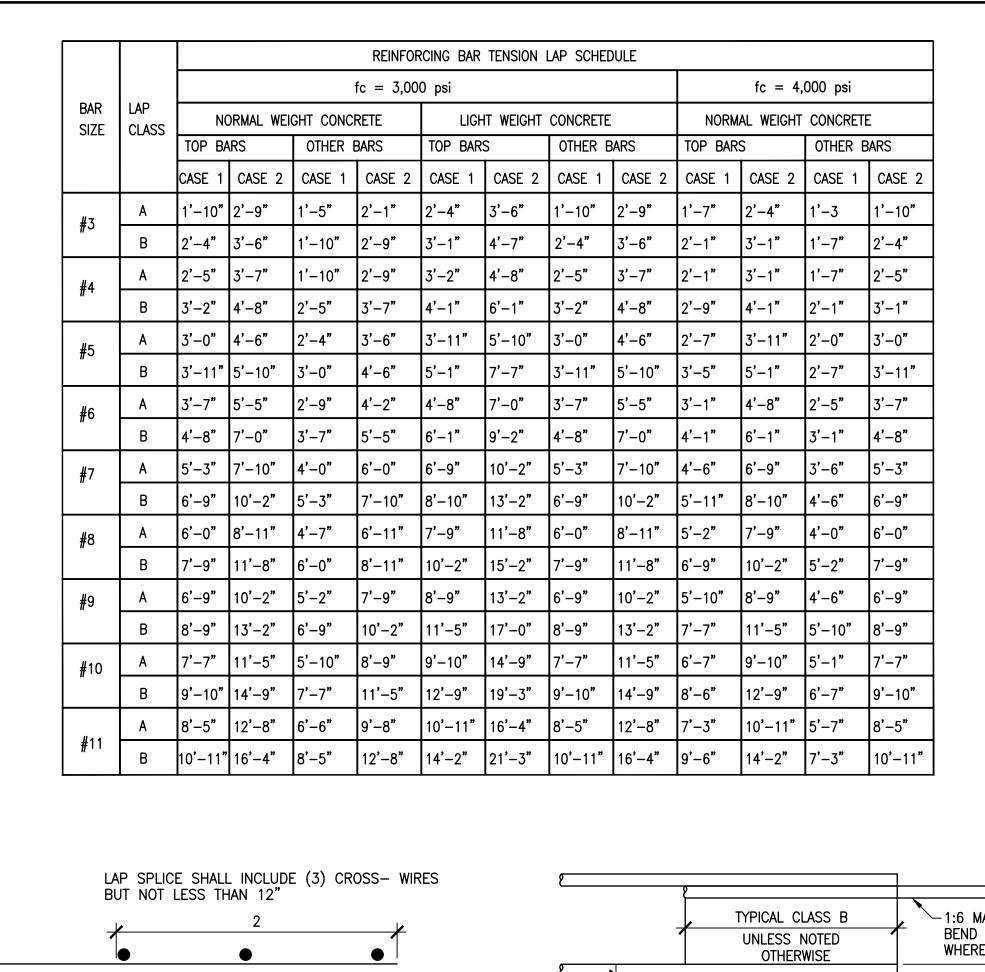
SCALE: 1/4"=1'-0"

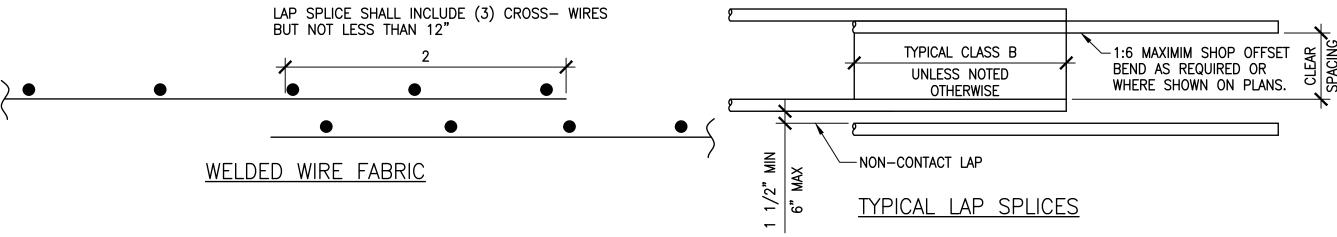
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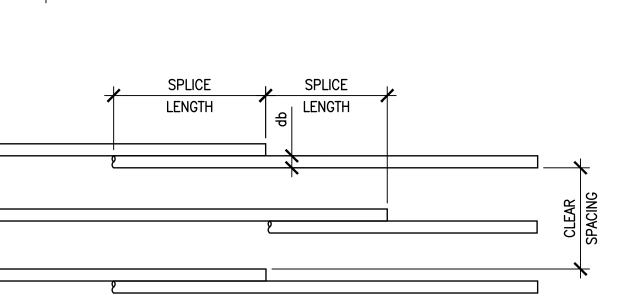


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10223 FIRMONA AVE

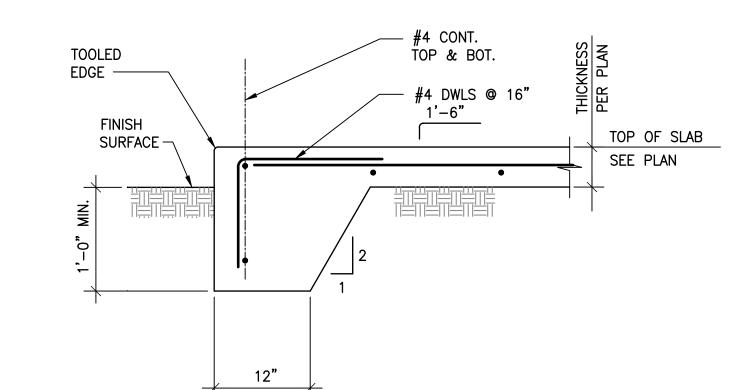


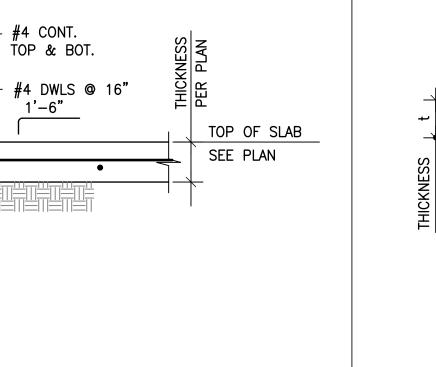


- 1. CASES 1 AND 2 WHICH DEPEND ON CLEAR CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS:
 - CASE 1: COVER AT LEAST 1db AND c-c SPACING AT LEAST 2db CASE 2: COVER LESS THAN 1db OR c-c SPACING LESS THAN 2db
- 2. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS. 3. OTHER BARS INCLUDE VERTICAL BARS AND HORIZONTAL BARS WITH LESS THAN 12" OF CONCRETE CAST. BELOW HORIZONTAL BARS.
- 4. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED ON PLANS.
- 5. ALL SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE ON PLANS.
- 6. FOR DEVELOPMENT LENGTH, Ld, USE CLASS A LAP SPLICE LENGTH.
- 7. FOR SHEAR WALL REINFORCING MULTIPLY THE LENGTHS IN THE SCHEDULE BY 1.25.



STAGGERED SPLICING

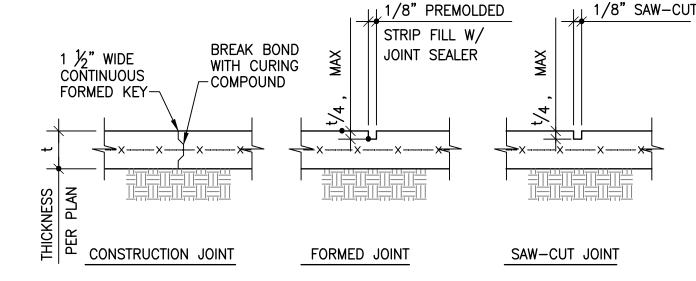




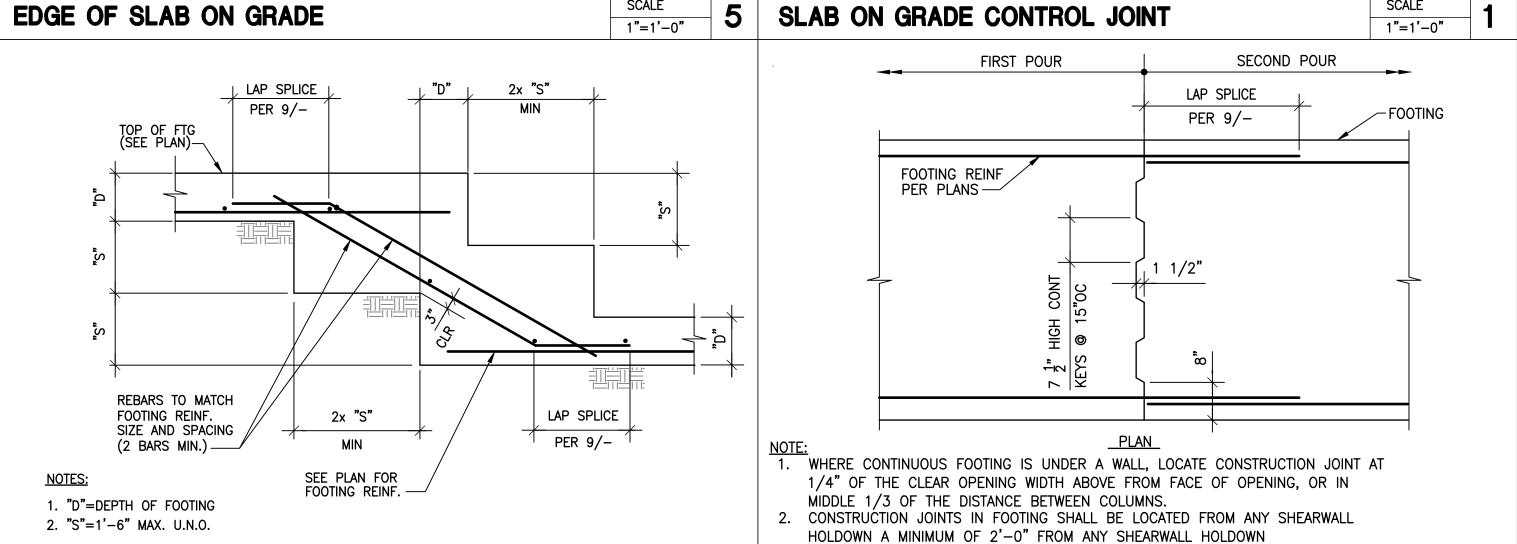
SCALE 1"=1'-0"

MATCH BOTTOM REINF

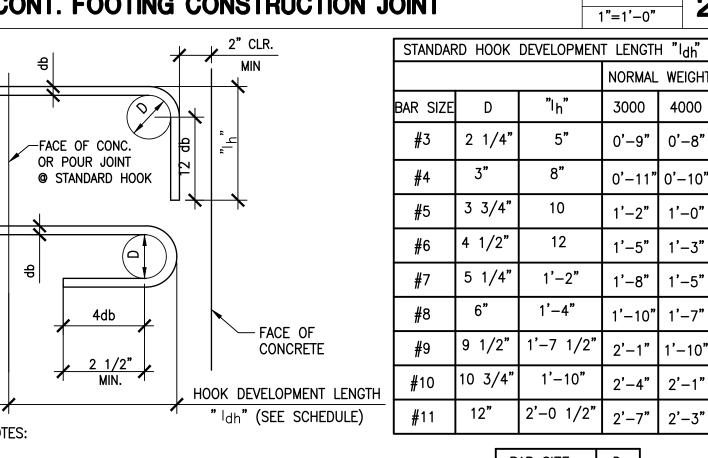
1"=1'-0"



- AND AT 20'-0" O.C. MAX. AND EVERY 400 SQUARE FEET. 2. IF SAW-CUT CONTROL JOINT TO BE USED, SAW-CUT
- WITHIN 24 HOURS OF POUR.
- 3. CONSTRUCTION JOINT TO BE LOCATED AS PER NOTES
- #1 AND #2 UNLESS SPECIFICALLY INDICATED ON PLANS.



CONT. FOOTING CONSTRUCTION JOINT



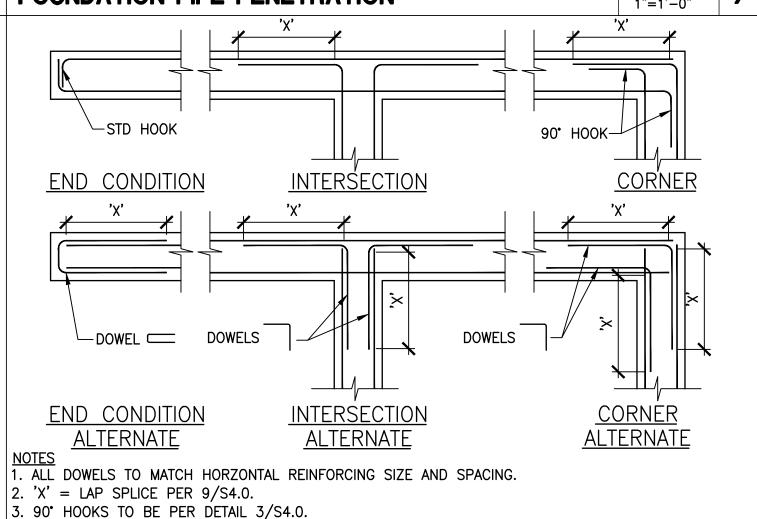
1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE. UNO ON PLANS

OPENING IN SLAB ON GRADE

BAR SIZE	D
#3 THRU #8	6d
#9 THRU #11	8d

1/2"=1'-0"

ELEVATION 2. MINIMUM SIDE COVER = $2 \frac{1}{2}$ 9 FOUNDATION PIPE PENETRATION DEVELOPMENT AND SPLICES OF CONCRETE REINFORCING BARS 1"=1'-0"



TYPICAL CONC FOOTING REINFORCING DETAIL

1'-0"

MIN

STEPPED FOOTING DETAIL

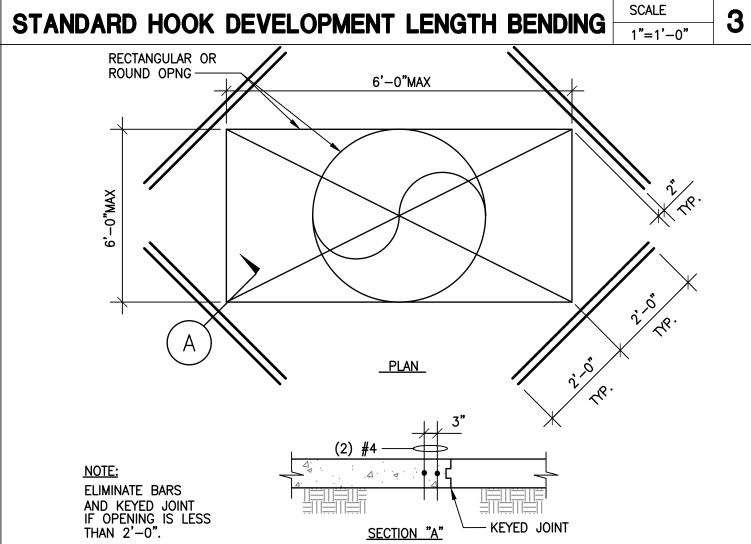
PIPE ABOVE

MAIN REINF-

PIPE AT/OR BELOW MAIN REINF

1" PIPE WRAP OR SPACE AROUND PIPE

FTG REINF-



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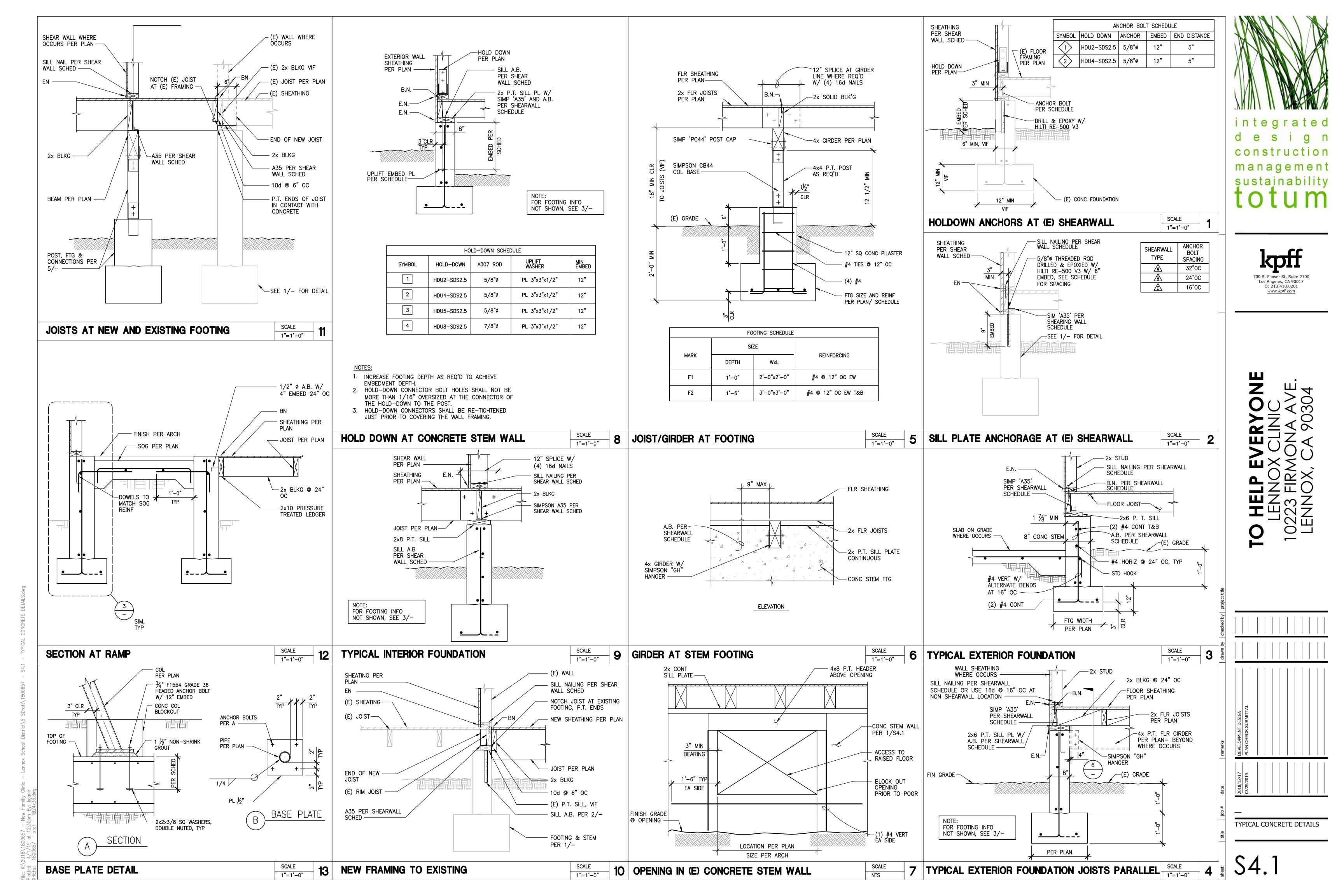
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TYPICAL CONCRETE DETAILS



MIDDLE 1/3 SPAN ⊢2"MIN d/6 MAX d/3 MAX d/6 MAX └ 2" MIN

JOIST SIZE	MAX. BORE DIA. "d"	MAX NOTCH DEPTH x WIDTH
2x6	1 3/4"	1" x 2"
2x8	2 3/8"	1" x 2 ½"
2x10	3 3/4"	1 %" × 3"
2x12	4 3/8"	2" x 4"

- 1. NOTCHING AND BORING NOT PERMITTED IN THE SAME JOIST SECTION WITHOUT STRUCTURAL ENGINEERS APPROVAL.
- 2. NOTCHES NOT PERMITTED IN MIDDLE-THIRD OF JOIST SPAN.
- 3. NOTCH WIDTHS GREATER THAN SHOWN ABOVE NOT PERMITTED WITHOUT STRUCTURAL ENGINEERS APPROVAL.

2x OR 3x TOP PLATE 2'-0" MIN PER SCHEDULE INTERMEDIATE FIELD NAILING (FN) 9 12" OC 9 ALL STUDS **EXCEPT @ PANEL EDGES** 2x OR 3x STUD O JOINTS PER SCHEDULE 2x OR 3x BLK'G O ALL UNSUPPORTED PER\SCHEDULE STRUCTURAL PANELS HOLDOWN ¦MAY BE APPLIED IN @ END OF LEITHER DIRECTION, **SHEARWALL** THE MINIMUM WIDTH WHERE REQ'D ''TO BE 2'-0"-, SILL PLATE! PER SCHEDULE ANCHOR BOLTS (AB) TYPICAL SHEARWALL ELEVATION

NOTES (CONTINUED):

- 11. ANCHOR BOLTS SHALL BE 5/8" WITH A 9" MIN EMBEDMENT INTO CONCRETE OR MASONRY AND A MINIMUM EDGE DISTANCE OF 1 7/8". THERE SHALL BE A MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE WITH ANCHOR BOLTS LOCATED WITHIN 6" TO 12" FROM EACH END OF THE SILL PLATE.
- 12. ORIENTED STRAND BOARD (OSB) MAY BE SUBSTITUTED FOR PLYWOOD NOTED ABOVE PROVIDED IT IS RATED BY APA'S PERFORMANCE STANDARD RATING AND IS OF THE SAME NUMBER OF LAYERS AS PLYWOOD PLY SPECIFIED.
- 13. USE MIN 4x END POSTS AT ALL SHEARWALLS UNLESS OTHERWISE NOTED.
- 14. WHERE PLYWOOD IS APPLIED ON BOTH FACES OF A WALL (DOUBLE SIDED). PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, AND NAILS ON EACH SIDE SHALL BE STAGGERED.
- 15. INDIVIDUAL PIECES OF PLYWOOD SHALL NOT BE LESS THAN 16" IN LEAST DIMENSION NOR LESS THAN 5 SQFT IN TOTAL AREA.

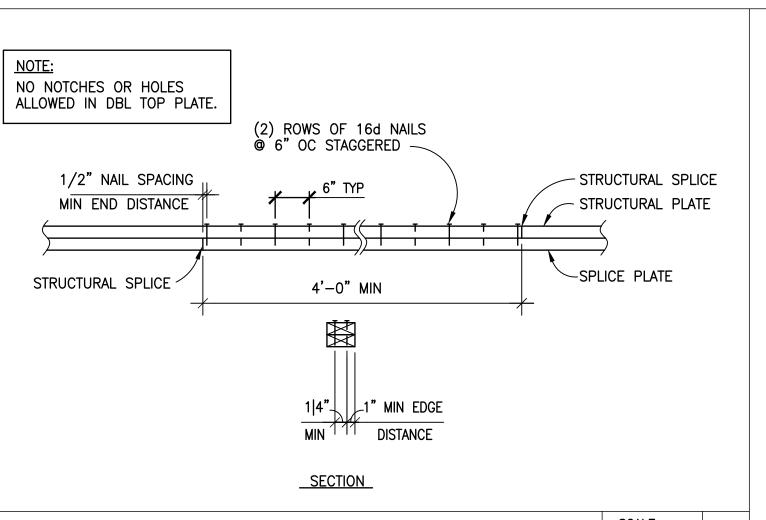
NOTES:

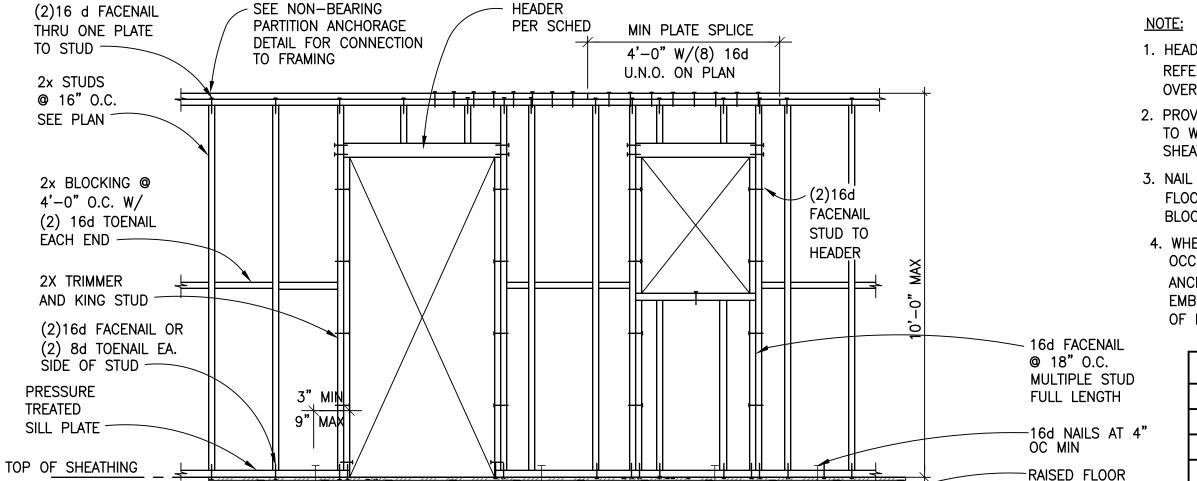
- 1. ALL PLYWOOD SHALL BE 4 PLY MINIMUM AND ALL PANEL EDGES SHALL BE BLOCKED.
- 2. ALL NAILS SHALL BE COMMON NAILS. 3. PROVIDE EDGE NAILING AT ALL EDGES OF SHEATHING, END
- STUDS, SILL PLATES AND TOP PLATES. 4. FRAMING SIZE REFERS TO THE MINIMUM WIDTH OF ALL FRAMING MEMBERS RECEIVING EDGE NAILING AND INDICATED
- ON SCHEDULE. 3x FRAMING REFERS TO A SINGLE 3" NOMINAL MEMBER. 5. NAILS SHALL BE STAGGERED IN TWO LINES ALONG PANEL
- EDGES WHEN NAILS ARE SPACED 3" O.C. OR CLOSER. 6. NAILS SHALL BE 1/2" MINIMUM FROM PLYWOOD PANEL EDGE. NAILS SHALL BE 3/8" MINIMUM FROM CONNECTING MEMBER EDGE WHERE SHEAR EXCEEDS 300 PLF.
- 7. SILL NAILS OR LAGS APPLY TO SILL PLATE ATTACHMENTS WHERE THE SHEAR WALL IS LOCATED ABOVE A CRIPPLE WALL, ANOTHER SHEARWALL OR OTHER WOOD FRAMING. WHERE SILL PLATE IS ON TOP OF CONCRETE OR MASONRY SEE ANCHOR BOLTING COLUMN FOR REQUIRED ATTACHMENT.
- 8. NAILS ARE NOT PERMITTED WITH 3x OR GREATER SILL PLATES. LAG BOLTS SHALL BE 3/8" UNLESS NOTED OTHERWISE WITH A PENETRATION (NOT INCLUDING LENGTH OF TAPERED TIP) INTO BASE FRAMING OF 3" MINIMUM. BASE FRAMING SHALL BE DOUBLE 2x TOP PLATE OR 3x BLOCKING
- 9. CUT WASHERS ARE TO BE USED AT LAGS AT SILL PLATE CONNECTIONS
- 10. APPROVED 2 1/2"x2 1/2'x1/4" PLATE WASHERS SHALL BE USED AT SILL PLATES (MUDSILL) RESTING ON CONCRETE OR MASONRY ONLY.

			SHEAR	WALL SHEATHING	/ NAILING	SCHEDULE 13		
	1,12,14,15		NAIL	ING 2,6	TOP PLATE	SILL ATTAC	CHMENT	SHEAR CAPACITY
WALL YMBOL	SHEATHING	FRAMING SIZE	3,5 EDGE		LTP4/A35	7,8,9 NAILS /LAG SCREWS	ANCHOR BOLTING 10,11	PER SDPWS-15 TABLE 4.3A
Â	15/32" STRUCT 1 SINGLE SIDED	2x	10d @ 6" OC	10d @ 12" OC	12" OC	1/2"ø LAG @ 12" OC	5/8"ø @ 36" OC	340 plf
B	15/32" STRUCT 1 SINGLE SIDED	3x	10d @ 4" OC	10d @ 12" OC	8" OC	1/2"ø LAG @ 9" OC	5/8"ø @ 24" OC	510 plf
Ĉ	15/32" STRUCT 1 SINGLE SIDED	3x	10d @ 3" OC	10d @ 12" OC	8" OC	1/2"ø LAG @ 6" OC	5/8"ø @ 24" OC	665 plf

SHEARWALL SCHEDULE

PER SCHEDULE





- 1. HEADERS, KINGSTUDS AND OTHER REFERENCES ON PLAN GOVERN OVER TYPICAL DETAIL.
- 2. PROVIDE BRACES ON WALLS PRIOR TO WALLS RECEIVING PLYWOOD SHEATHING.
- 3. NAIL SILL PLATE TO WOOD FRAMED FLOORS WITH 16d @ 12" O.C. TO
- 4. WHERE RAISED FLOOR DOES NOT OCCUR PROVIDE 0.145" POWER DRIVEN ANCHORS W/ 1 $\frac{3}{6}$ " SQ. WASHER AND 1" EMBEDMENT AT 24" OC AND 6" FROM END OF PL (ICBO #1639)

SCALE

NTS

HEADER SCHEDULE (S	EE NOTE 1)
OPN'G WIDTH	HEADER
UP TO 4'-0"	4x4
4'-0" TO 6'-0"	4x6
6'-0" TO 8'-0"	4x8
8'-0" TO 10'-0"	4x10

SCALE

1"=1'-0"

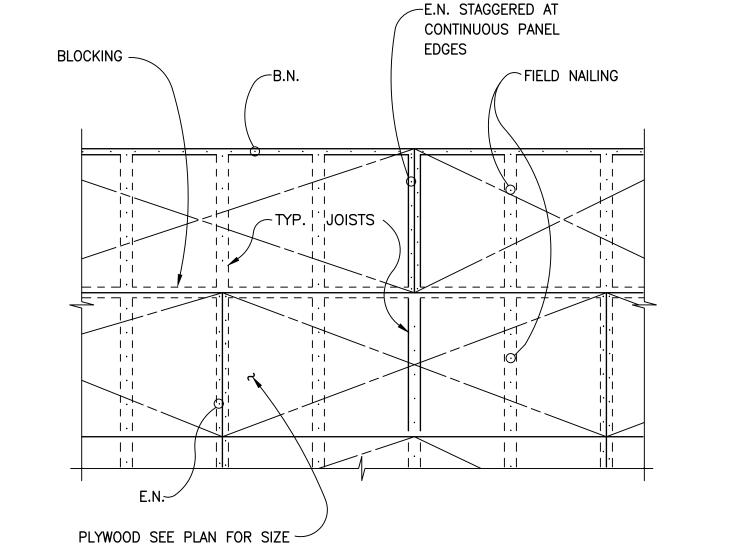
BORING AND NOTCHING OF JOISTS

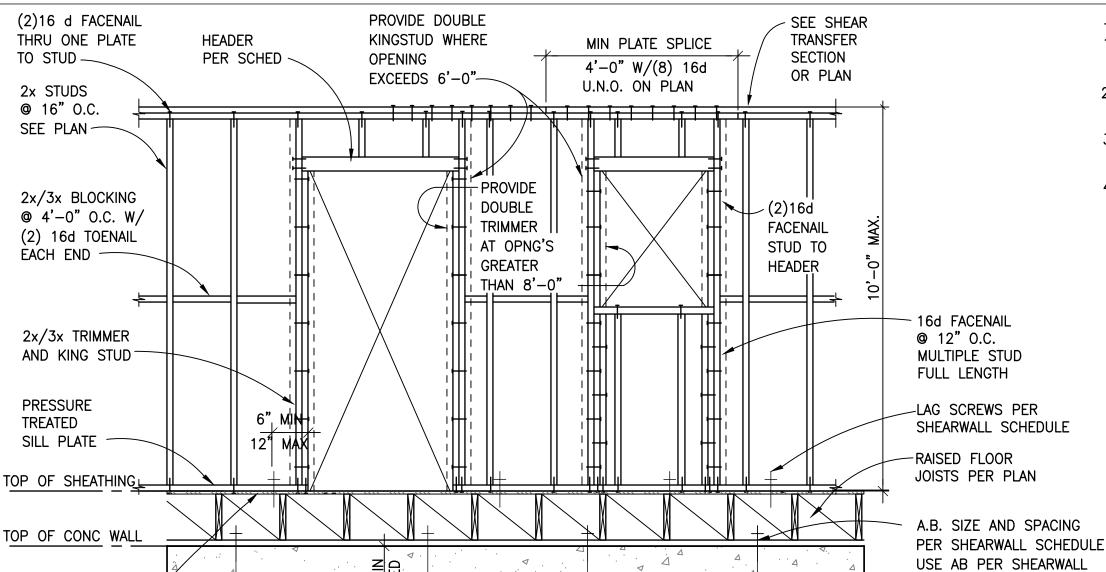
TYPICAL BLOCKING AT WALL

SCALE	7	
1"=1'-0"		,

1"=1'-0"







JOISTS PER PLAN

- 1. HEADERS, KINGSTUDS AND OTHER REFERENCES ON PLAN GOVERN OVER TYPICAL DETAIL
- 2. SEE SHEARWALL PLYWOOD NAILING DETAIL FOR ADDITIONAL INFORMATION
- 3. AT WOOD FRAMED WALLS USE SILL CONNECTION PER SHEARWALL SCHEDULE
- 4. WHERE RAISED FLOOR DOES NOT OCCUR PROVIDE ANCHOR BOLTS PER SHEARWALL SCHEDULE FROM SILL PL TO FOUNDATION

S	CHEDULE	- ROOF		
OPENING WIDTH	HEADER	SILL AT WINDOW	POST/ TRIMMER	KING 3 STUDS
UP TO 4'-0"	4x6	2x	2x4	(2) 2x4
4'-0" TO 6'-0"	4x10	2x	3x4	(3) 2x4
6'-0" TO 8'-0"	4x12	(2) 2x	4×4	(4) 2x4

4-INCH THICK WALLS

S	CHEDULE	- R00F			date
OPENING WIDTH	HEADER		POST/ TRIMMER		# qoí
UP TO 4'-0"	6x4	2x	2x6	(2) 2x6	
4'-0" TO 6'-0"	6x8	2x	3x6	(3) 2x6	title
6'-0" TO 8'-0"	6x12	(2) 2x	3x6	(4) 2x6	

TYPICAL WOOD DETAILS

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ONX

WZmZ

2x BLKG OR 3x BLKG WHERE REQUIRED PER SHEARWALL SCHEDULE (2) 10d TOE NAILS TYP

1"=1'-0"

DIAPHRAGM DETAIL

AND BLOCKING

1"=1'-0"

(2)16d FACENAIL OR (2) 8d TOENAIL EA.

SIDE OF STUD-

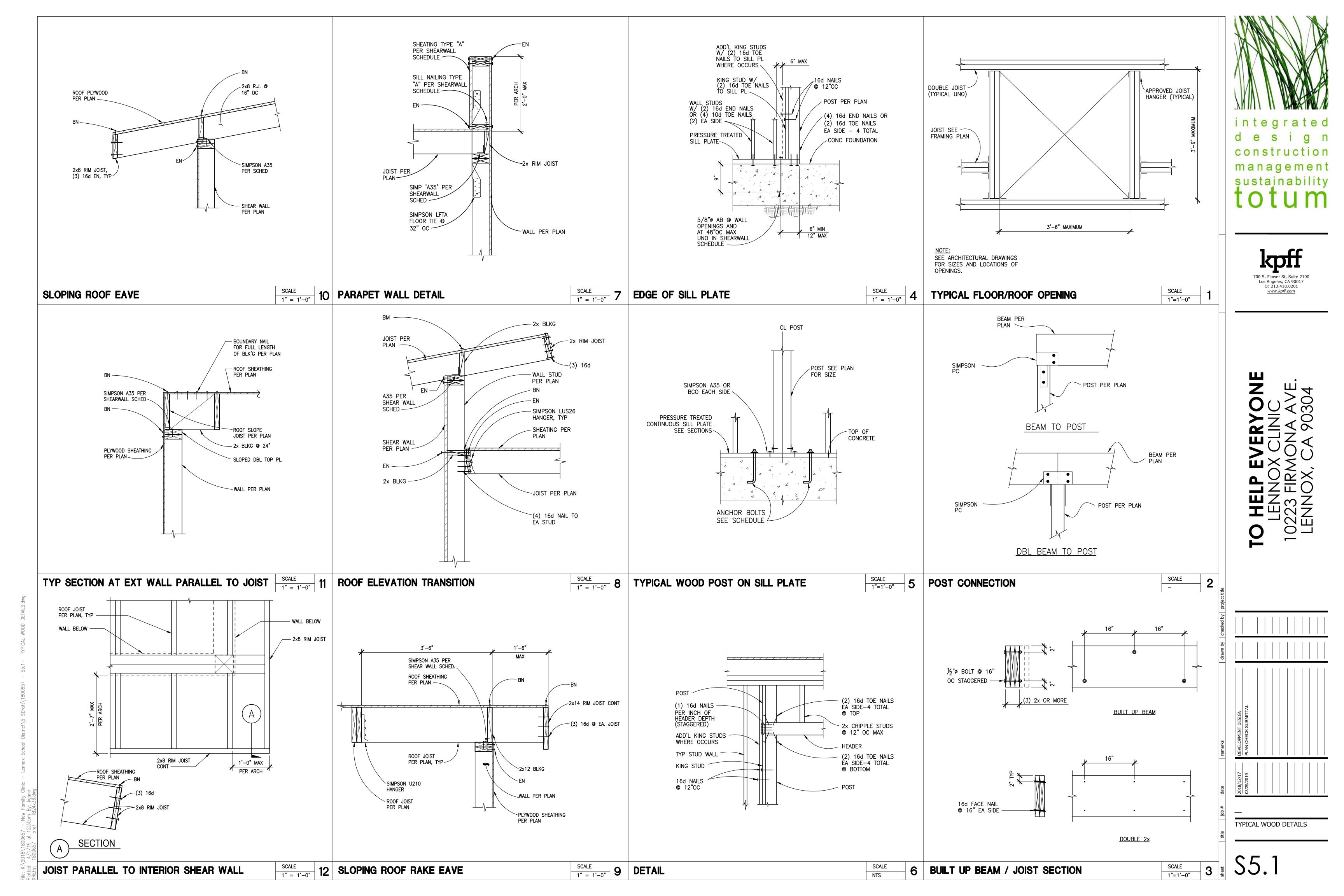
EXTERIOR AND INTERIOR BEARING / SHEARWALL FRAMING

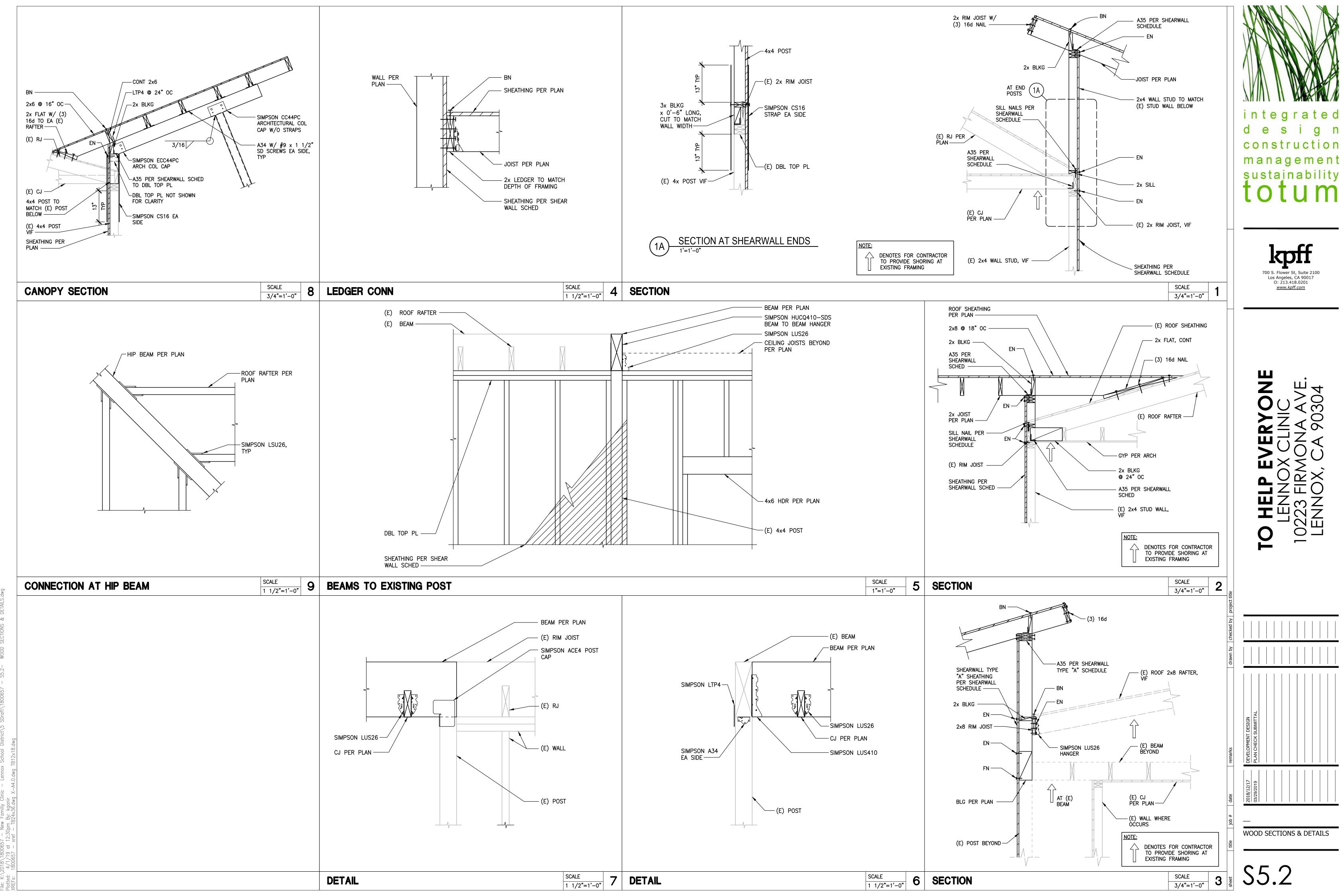
INTERIOR NON-BEARING STUD WALL FRAMING

SCHED

6-INCH THICK WALLS

1"=1'-0"





SCOPE OF WORK

The work under this contract consists of furnishing all labor, materials, permits, inspection fees, and supplementary services required for the complete installation of environmental heat pumps, environmental ducting, environmental diffusers, restroom exhaust ducting and intakes, exhaust fans, and make-up air supply fans as shown on these documents. Installation shall include any additional work as may be required by any special jobsite conditions or coordination with other trades.

MATERIALS

All materials furnished under this contract shall be new, free from defects, and shall conform with the standards of the UL or FM, where such standards have been established, and shall be so labeled. Incidental materials not specifically specified herein that are required to complete the installation shall be of the highest quality for the use intended.

Manufacturer's names and catalog numbers are used to designate the material or equipment as a means of establishing grade, quality, and performance. Substitutions will be considered with a submittal of the proposed substitution, review, and the permission of the owner.

INSTALLATION

The entire installation shall be made in a neat, workmanship-like, finished, and safe matter. Conceal all refrigerant, condenser, and water piping in finished areas, unless otherwise noted. Dielectric protection shall be provided at all dissimilar metal junctions or contact points. Roof and wall penetrations shall be properly sealed against weather penetration.

Installation documentation and manuals for all equipment provided and installed shall be provided and attached to the air handler units in a transparent pocket, or provided as a packaged document set, for the owner or inspector to review on demand.

Provide complete copies of all test and balance reports attached to the air handler unit, or provided as a packaged document set, for the owner or inspector to review on demand.

CODES, PERMITS, FEES, INSPECTIONS, RULES, AND REGULATIONS

Installers / contractors shall comply with all requirements of local, county, state, and federal codes, ordinances, and regulations. obtain and pay for all permits, inspections, etc., where required.

MANDATORY MEASURES

- 1. HEATING AND COOLING EQUIPMENT SHALL MEET THE EFFICIENCY REQUIREMENTS OF TITLE-24 SECTION 110.1 OR SECTION 110.2.
- 2. EACH SYSTEM NOT CONTROLLED BY A BUILDING ENERGY MANAGEMENT SYSTEM SHALL HAVE A SETBACK THERMOSTAT IN COMPLIANCE WITH TITLE-24 SECTION 120.2.
- WHEN TO CONTROL HEATING, THE THERMOSTAT SHALL BE CAPABLE OF BEING SET DOWN TO 55°F OR LOWER.
- WHEN TO CONTROL COOLING, THE THERMOSTAT SHALL BE CAPABLE
- OF BEING SET UP TO 85°F OR HIGHER. WHEN USED TO CONTROL BOTH HEATING AND COOLING, THE
- THERMOSTAT SHALL PROVIDE A "DEADBAND" OF AT LEAST 5°F WITHIN WHICH NO HEATING OR COOLING ENERGY IS SUPPLIED. VENTILATION FANS SHALL CONTINUE TO RUN AS PROGRAMMED.
- WHEN NOT IN USE THE HEATING/COOLING EQUIPMENT SHALL BE SHUT DOWN.
- 3. ALL THERMOSTATS SHALL HAVE A CLOCK MECHANISM THAT ALLOWS THE OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST 4 PERIODS WITHIN EVERY 24 HOURS IN COMPLIANCE WITH TITLE-24 **SECTION 120.2.**

NOTE: HEAT PUMPS/AIR HANDLERS IN THIS PROJECT DO NOT USE SUPPLEMENTAL ELECTRIC HEATING. NO ADDITIONAL CONTROLS ARE REQUIRED FOR THIS FUNCTION.

NOTE: SPLIT SYSTEM HEAT PUMPS/AIR HANDLERS USED IN THIS PROJECT DO NOT USE ECONOMIZERS. NO ADDITIONAL CONTROLS ARE REQUIRED FOR THIS FUNCTION.

- 4. VENTILATION (OUTSIDE AIR) FOR OCCUPANTS SHALL BE PROVIDED AT A MINIMUM OF 15CFM PER PERSON CALCULATED BY THE LARGEST OF:
 - THE EXPECTED OCCUPANCY OF EMPLOYEES/EQUIPMENT OPERATORS OR 50% OF MAXIMUM OCCUPANT LOAD ASSUMED FOR EGRESS PURPOSES.
 - 0.15 CFM/sf OF CONDITIONED AREA.
 - AS RECOMMENDED PER ASHRAE STANDARD 170-2013, VENTILATION OF HEALTHCARE FACILITIES
- 5. AIR HANDLER FANS SHALL BE PROGRAMMED TO START 1 HOUR PRIOR TO SCHEDULED OCCUPANCY AND RUN CONTINUOUSLY WHILE OCCUPIED.
- 6. DAMPERS SHALL BE INSTALLED AT ALL DIFFUSERS AND INLETS, INCLUDING OUTSIDE VENTILATION AIR CONNECTIONS TO AIR HANDLERS, TO CONTROL THE AIR FLOW AS SPECIFIED IN THIS DOCUMENT.
- 7. ENVIRONMENTAL HEATING/COOLING DUCTS SHALL BE INSULATED TO A MINIMUM OF R-6, AS REQUIRED FOR TITLE-24 CLIMATE ZONE 8 (THIS LOCATION). DUCT INSULATION SHALL MEET ANY REQUIREMENTS FOR ADDITIONAL INSULATION IF REQUIRED BY LOCAL CODES.

Materials

All materials furnished under this contract shall be new, free from defects, and shall conform with the standards of the UL and FM where such standards have been established, and shall be so labeled. Incidental materials not specified herein that are required to complete the work shall be of first (highest) quality for the use intended. Manufacturer's names and catalog numbers are used to designate the item of material or equipment as a means of establishing grade and quality. Manufacturers of a similar quality will be considered upon submittal by the contractor and may be substituted with written approval.

Indirect Waste Condensate Drains, Non-condensing equipment, Pressure Relief Valve Drains:

Type L copper with wrought copper fittings. Use lead-free 95/5 solder for all

Indirect Waste Condensate Drains - Condensing Appliances/Equipment Schedule 40 PVC pipe with solvent weld fittings, thread/socket adapters at point of connection to equipment.

Alternate: "Tygon 2375" Ultra Chemical Resistant or PTFE flexible tubing with molded PTFE barbed or compression fittings to match tubing size.

Insulation

Filters

NOTE: THIS IS AN OSHPD-3 MEDICAL OFFICE

MECHANICAL EQUIPMENT

Environmental HVAC - SEE TABLE M-1.1

Thermostat

Honeywell [TBD]Low Voltage Programmable Thermostat with auto-adjust for daylight savings time, 7-day / 4-period program retention in memory in case of power outage, filter change reminder, and large LCD display for single stage heating/cooling with heat pump.

Provide and install twisted pair wire to connect thermostat to rooftop heat pump units.

Provide insulated base for exterior wall mounting (where so required) and locking thermostat cover when placed in public access areas.

Exhaust Fan - Roof Mounted

Greenheck Model G-098 Centrifugal Roof Downblast Direct Drive Fan 208V/1Ø VG-1/4 HP Vari-Green motor, rated for continuous duty at 655 CFM @ 0.30 ESP.

Provide complete with Greenheck model 12"x12" WD-100 horizontal mount exhaust damper (air flow up) with aluminum blades and vinyl blade seals.

Provide Greenheck 19"x19" curb for seismic certification.

Intake Air Grilles

RETURN AIR - DROP CEILING AREAS

Titus Model PAR 24"x24" square face to match ceiling style (drop-in or tegular) with integral balance damper. Diffuser neck to match duct size specified on plan, provide square-to-round adapter to match duct size shown on plan.

RETURN AIR - HARD LID AREAS

Titus Model 350R 0° deflection return air grille with integral mounted balancing damper. Provide square-to-round adapter to transition to duct size shown on plan. Square dimension to match exhaust duct specified on plan.

SIDE WALL INTAKE

Titus Model 350RS 12"x18", standard #22 white finish, 3/4" blade spacing, with adjustable opposed blade damper, no filter.

EXHAUST - DROP CEILING AREAS

Titus Model PAR 24"x24" square face to match ceiling style (drop-in or tegular) with integral balance damper. Diffuser neck to match duct size specified on plan, provide square-to-round adapter to match duct size shown on plan.

EXHAUST - HARD LID AREAS

Titus Model 350R 35° deflection return air grille with integral mounted balancing damper. Provide square-to-round adapter to transition to duct size shown on plan.

Supply Diffusers

DROP CEILING / HARD LID

Titus Model PAS with round duct inlet and 24"X24" square face to match ceiling style (drop-in or tegular). Diffuser neck size to match supply duct. Provide in duct damper Titus AG-100 or D-100 as required by duct/diffuser interface and access required.

RESTROOM HARD LID / JANITOR ROOMS / EQUIPMENT ROOM Titus Model 250 4-way throw steel frame surface mount diffuser. Square dimension to match duct size. Provide separate in-duct damper Titus AG-100 or D-100 as required by duct/diffuser interface and access required.



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29-Mar-19 18-08003.01

Scope of Work and

Specifications

HEAT PUMP EQUIPMENT SPECIFICATIONS

Mark (HP-)	Mfg	Model	Total Cooling Capacity	Total Heating Capacity	Unit Weight	SEER	HSPF	Voltage	FLA	МОСР	Evap Fan CFM	Total ESP	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Total Cooling Req	Sensible Cooling Req	Heating Req	Notes
1	Trane	4WCY4036C1000A	37000	33200	550	14.25	8.00	208/1P/60	26.2	40	1194	0.60	79.2	65.9	58.5	57.2	34600	29100	22200	Unit weight column includes curb, economizer, + 10% allowance for misc. hardware
2	Trane	4WCY4030C1000A	30000	27600	534	14.25	8.00	208/1P/60	19.2	30	1002	0.70	76.9	64.4	58.0	56.9	25500	22800	13300	
3	Trane	4WCY4036C1000A	37000	33200	550	14.25	8.00	208/1P/60	26.2	40	1194	0.60	78.9	66.3	59.6	58.4	33300	28100	20400	

HEAT PUMP EQUIPMENT NOTES

- 1. ALL UNITS CONFIGURED FOR HORIZONTAL SUPPLY/RETURN.
- 2. PROVIDE ROOFTOP PACKAGE UNITS WITH THE FOLLOWING OPTIONS:
- Micro-Metl CRBK-IMP2SFA-0801 STRUCTURALLY CALCULATED KNOCKDOWN CURB (EST WT 45 LBS)
- Micro-Metl ECC-IMP2SCA-DYZB ECONOMIZER WITH BAROMETRIC RELIEF (EST WT 83 LBS)
 17-1/2" x 21-1/4" BAROMETRIC RELIEF HOOD PER Micro-Metl INSTALLATION DRAWING.
- AUXILIARY RELAY (Micro-Metl 9901-5030)
- (4) WIRE LEADS (Micro-Metl 9901-0134)
- 3. PROVIDE AIR FILTER SET FOR EACH HEAT PUMP CONSISTING OF:
- (1) 20"x25"x2" MERV 8 INSIDE UNIT 30% EFF
- (1) 20"x25"x4" MERV 14 IN SUPPLY SIDE FILTER HOLDER 90% EFF (SEE PLAN VIEW/DETAIL)
 Mfg:

									A	IR BALANC	E SUMMARY							
Zone	Room #	Area (SF)	Cing Ht (ft)	Volume (ft3)	Occupancy	OSA/ Person	OSA/ sf	OSA by Occ	OSA by Area	OSA Reg'd	Exhaust Req'd	Filter Regmt	Supply CFM	ACH Reg'd	ACH Specified	ACH OSA	HVAC System	Pressurization (Airflow Direction)
Check In Entryway	100	54	7.86	424	0	15	0.15	0	8	15	NR	30%	170	4	24.0	2.1	HP-1	Neutral/No requirement
Waiting 2	101	87	11.00	957	8	15	0.15	120	13	135	100	30% + 90%	310	4	19.4	8.5	HP-1	Negative (32.3% exhaust)
Lounge	110	135	8.17	1103	4	15	0.15	60	20	60	60	30%	210	4	11.4	3.3	HP-1	Negative (28.6% exhaust)
Staff Toilet 111	111	52	8.17	425	1	15	0.15	15		70	75	30%	75	10	10.6	9.9	HP-1	Neutral (100% exhaust)
Staff Toilet 112	112	54	8.17	441	1	15	0.15	15		75	75	30%	75	10	10.2	10.2	HP-1	Neutral (100% exhaust)
Office 1	115	94	8.17	768	2	15	0.15	30	14	30	NR	30%	95	4	7.4	2.3	HP-1	Neutral/No requirement
Office 2	117	94	8.17	768	2	15	0.15	30	14	30	NR	30%	95	4	7.4	2.3	HP-1	Neutral/No requirement
Open Office	119	165	7.86	1297	3	15	0.15	45	25	45	NR	30%	135	4	6.2	2.1	HP-1	Neutral/No requirement
Data Storage	122	42	7.86	330	1	15	0.15	15	6	15	NR	30%	35	4	6.4	2.7	HP-1	Neutral/No requirement
Ped Vitals & Nurse	102	98	11.00	1078	2	15	0.15	30	15	40	NR	30% + 90%	125	4	7.0	2.2	HP-2	Neutral/No requirement
Hallways - East	103	91	13.50	1229	0	15	0.15	0	14	14	NR	30% + 90%	125	4	6.1	2.0	HP-2	Neutral/No requirement
Lab	104	88	9.00	792	1	15	0.15	15	13	15	NR	30% + 90%	80	4	6.1	2.0	HP-2	Neutral/No requirement
Exam 1	105	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	125	4	9.5	2.3	HP-2	Neutral/No requirement
Exam 3	106	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	125	4	9.5	2.3	HP-2	Neutral/No requirement
Exam 4	107	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	125	4	9.5	2.3	HP-2	Neutral/No requirement
Waiting 3	109	102	9.75	995	6	15	0.15	90	15	90	100	30% + 90%	330	4	19.9	5.4	HP-2	Negative (30.3% exhaust)
Hallways - Core	103	160	12.25	1960	0	15	0.15	0	24	35	NR	30% + 90%	135	4	4.1	2.0	HP-3	Neutral/No requirement
Exam 6	108	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	75	4	5.7	2.3	HP-3	Neutral/No requirement
Clean	113	13	9.00	117	0	15	0.15	0	2	5	NR	30% + 90%	25	10	12.8	2.6	HP-3	Positive (100% Supply
Soiled	114	40	9.00	360	1	15	0.15	15	6	60	75	30%	60	10	10.0	10.0	HP-3	Neutral (100% exhaust)
Exam 5	116	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	80	4	6.1	2.3	HP-3	Neutral/No requirement
Exam 2	118	88	9.00	792	2	15	0.15	30	13	30	NR	30% + 90%	80	4	6.1	2.3	HP-3	Neutral/No requirement
Patient Toilet 1	120	50	7.86	393	1	15	0.15	15		75	75	30% + 90%	75	10	11.5	11.5	HP-3	Neutral (100% exhaust)
Patient Toilet 2	121	50	7.86	393	1	15	0.15	15		75	75	30% + 90%	75	10	11.5	11.5	HP-3	Neutral (100% exhaust)
Check In	123	243	7.86	1910	5	15	0.15	75	36	81	NR	30% + 90%	195	4	6.1	2.5	HP-3	Neutral/No requirement
Check Out	123	94	7.86	739	3	15	0.15	45	14	45	NR	30% + 90%	85	4	6.9	3.7	HP-3	Neutral/No requirement
Housekeeping	124	15	7.86	118	1	15	0.15	15	2	20	20	30% + 90%	20	10	10.2	2.0	HP-3	Neutral (100% exhaust)
Hallways - West	N/A	227	12.25	2781	0	15	0.15	0	34	50	NR	30% + 90%	355	4	7.7	2.0	HP-3	Neutral/No requirement
Totals		2576								1260	655		3495					

AIR BALANCE NOTES

- 1. "Neutral Airflow" INDICATES (Return + Exhaust) = Supply OR Return = Supply
- 2. "Negative Airflow" INDICATES (Return + Exhaust) > Supply BY % SHOWN.
- 3. "Positive Airflow" INDICATES (0% Return) OR (Supply) > (Return + Exhaust) BY % SHOWN.

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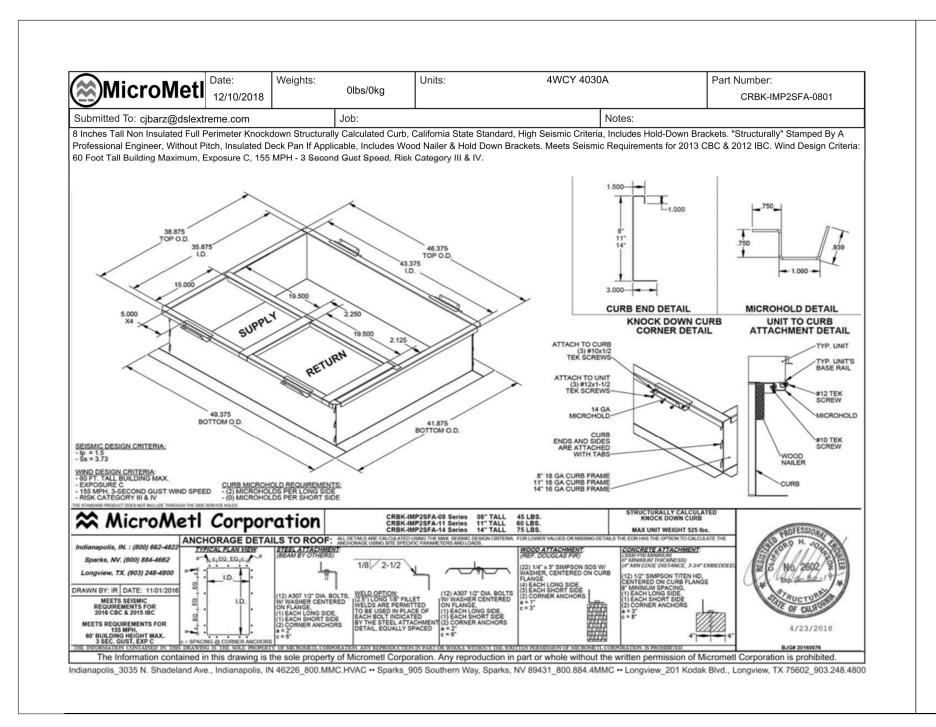


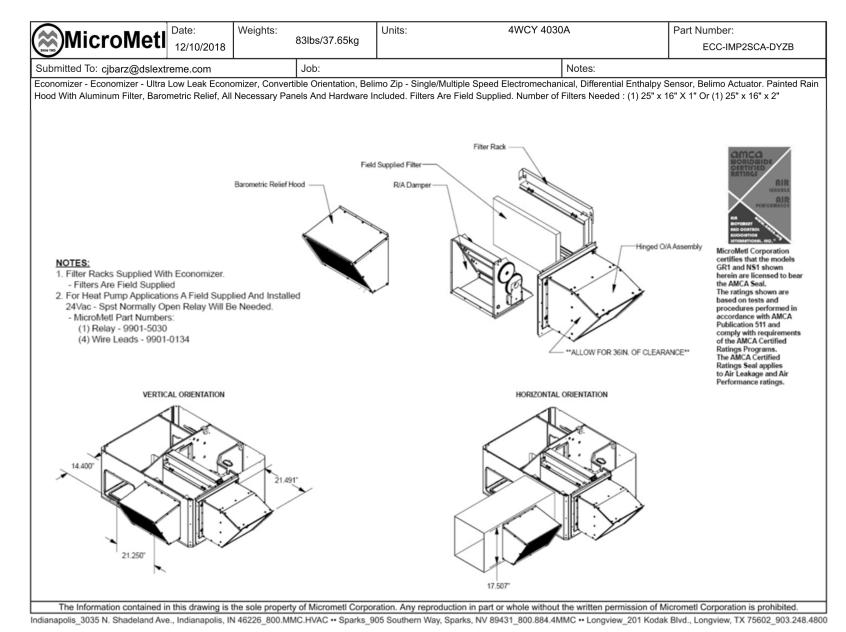
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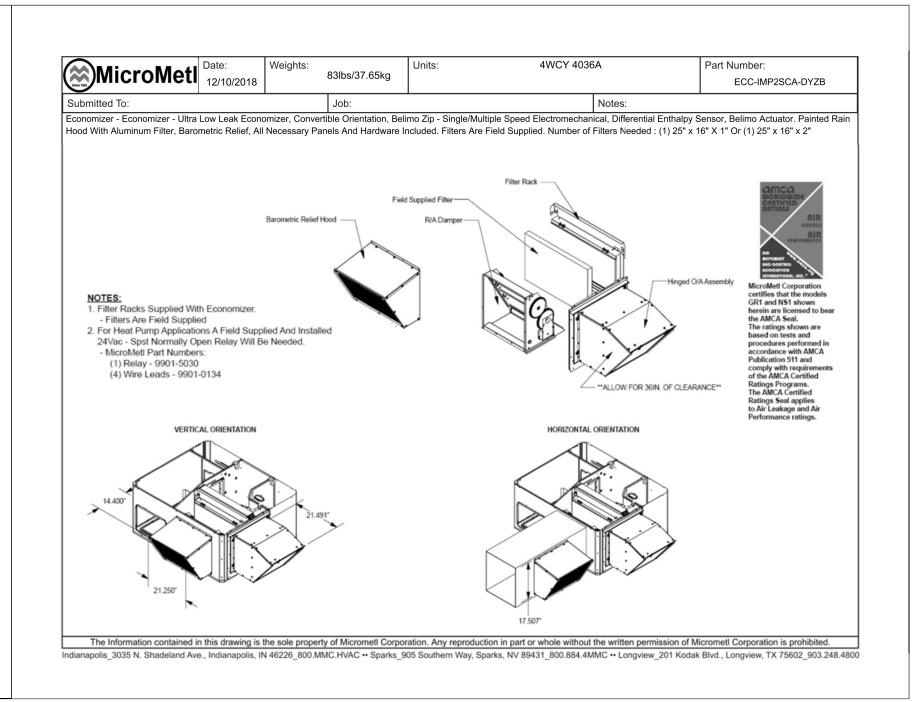
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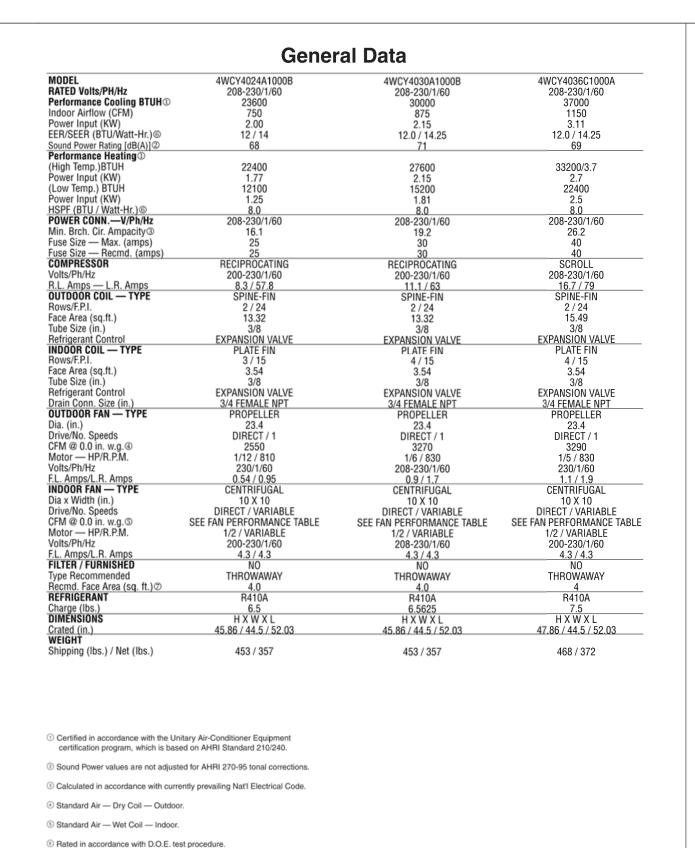
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18-08003.01 Air Balance Specifications and Details









Tilters must be installed in return air system. Square footages listed are based on 300 f.p.m. face velocity. If permanent filters are used size per manufacturer's recommendations with clean resistance of 0.05" W.C.

lorizontal Airf	I DID	CWITCL	SETTI	100					Eutorool	Ctatia Dra	anne (ir					
	1	2	3	4		0.0	0,1	0.2	External 0.3	0.4			0.7	0.8		1.0
AIRFLOW SETTING	 '	2	3	4	Watts	52	66	89	115	140	0.5	0.6	206	229	0.9 259	1.0
350 CFM/TON	OFF	OFF	OFF	ON	CFM	706	716	727	733	731	719	700	679	662	659	-
	 				Watts	700	94	120	148	177	207	233	254	267	290	
400 CFM/TON*	OFF	OFF	OFF	OFF	CFM	786	793	805	813	813	806	793	780	778	799	-
					Watts	80	99	125	153	182	211	243	284	342	-	-
450 CFM/TON	OFF	OFF	ON	OFF	CFM	860	862	877	892	903	904	897	884	869		-
AIRFLOW SETTING	1	2	3	4	14/	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
own Airflow																
4WCY4024-DOWN	DIP	SWITCH	SETTI	VGS					External	Static Pre	essure (ir	wa)				
AIRFLOW SETTING	1	2	3	4		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM/TON	OFF	OFF	OFF	ON	Watts	35	70	90	108	131	160	188	204	225	250	-
	-				CFM	695	729	734	728	721	715	705	679	680	685	-
400 CFM/TON*	OFF	OFF	OFF	OFF	Watts	79	87	105	129	155	180	206	232	264	306	-
					CFM	846	807	802	810	816	813	803	794	800	846	-
	_						102	127	156	185	213	242	275	319	-	-
450 CFM/TON	OFF	OFF	ON	OFF	Watts	86								$\overline{}$		
450 CFM/TON	OFF	OFF	ON	OFF	Watts	86 884	870	882	899	909	907	895	886	898	-	-
ndoor Fan Per	forma				CFM			882	899	909	907	895	886	898	-	-
ndoor Fan Per Iorizontal Airf	forma	ance	4W0	CY40	CFM			882					886	898	-	
ndoor Fan Per Iorizontal Airf 4WCY4030-HOR	formation low	ance	4W0	CY40	CFM	884	870		External	Static Pre	essure (ir	n. wg)				
ndoor Fan Per lorizontal Airf 4WCY4030-HOR AIRFLOW SETTING	formation of the state of the s	ance	SETTII	CY40	CFM			0.2					0.7	0.8	0.9	1.0
ndoor Fan Per Iorizontal Airf 4WCY4030-HOR	formation low	ance	4W0	CY40	O30	0.0	870	0.2	External 0.3	Static Pro	essure (ir	n. wg)	0.7	0.8	0.9	1.0
ndoor Fan Per Horizontal Airf 4WCY4030-HOR AIRFLOW SETTING	formation of the state of the s	ance	SETTII	CY40	O30	0.0	0.1 110	0.2	External 0.3 176	Static Pre	essure (ir 0.5 232	n. wg) 0.6 264	0.7	0.8	0.9	1.0

Down Airflow

AIRFLOW SETTING

400 CFM/TON*

450 CFM/TON

*Factory Default Setting

4WCY4030-DOWN DIPSWITCH SETTINGS

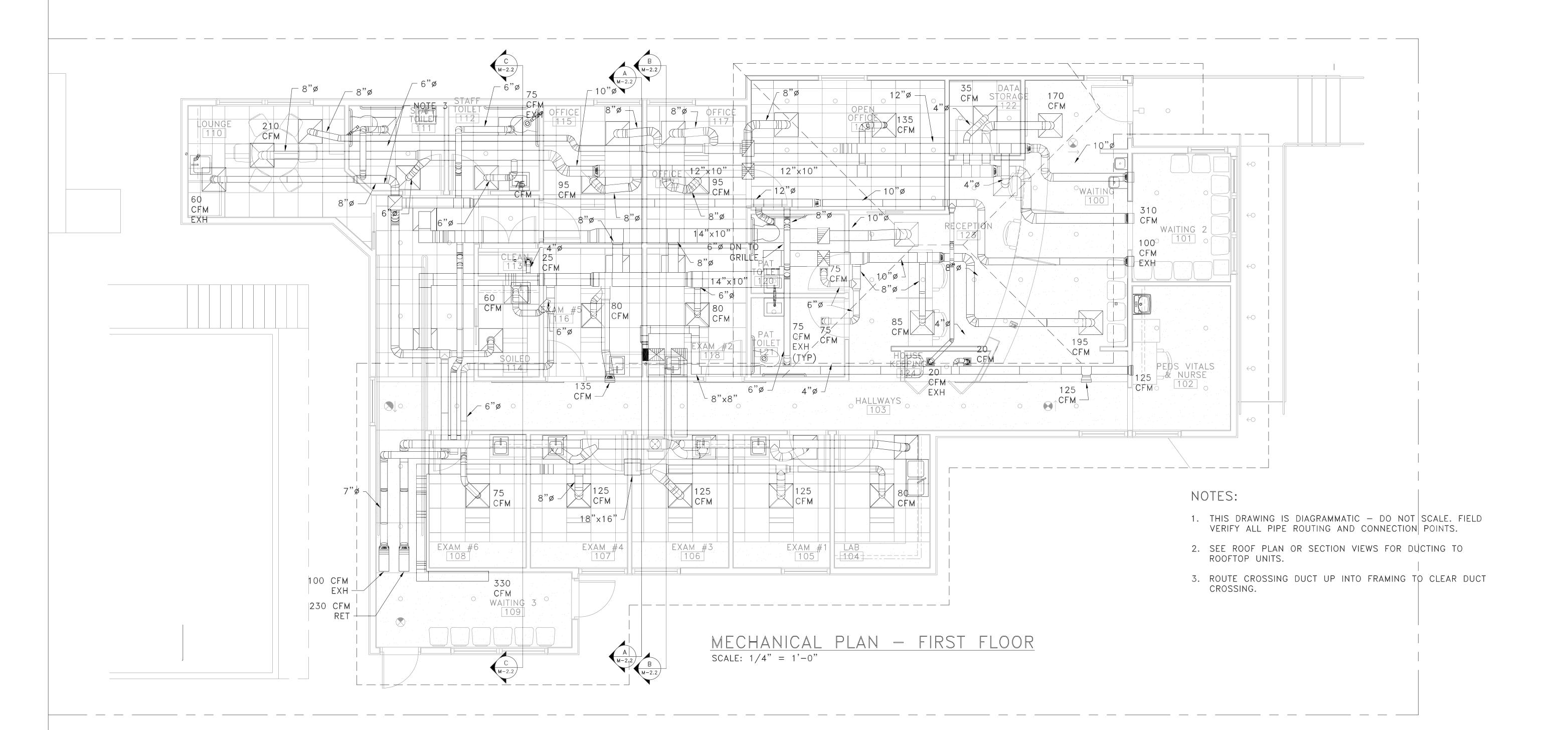
ndoor Fan Per	forma	ance				<u> </u>	v C i	i GII	orm	iai i	J U					
Horizontal Airf	low															
4WCY4036-HOR	DIPS	SWITCH	SETTI	VGS					External	Static Pre	ssure (in	i. wg)				
AIRFLOW SETTING	1	2	3	4		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0
350 CFM/TON	OFF	OFF	OFF	ON	Watts	162	173	197 1063	226 1063	256	285	313	343	360	-	-
					Watts	1058 179	1062 230	265	296	1062 329	1060 366	1057 403	1053 431	1010 436	-	-
400 CFM/TON*	OFF	OFF	OFF	OFF	CFM	1179	1196	1204	1206	1205	1203	1199	1194	1185	-	-
450 CFM/TON	OFF	OFF	ON	OFF	Watts	318 1390	336 1376	365 1370	399 1366	435 1361	469 1354	502 1349	533 1351	-	-	-
Down Airflow																
4WCY4036-DOWN AIRFLOW SETTING	DIP:	SWITCH 2	SETTI 3	NGS 4		0.0	0.1	0.2	External 0.3	Static Pro	essure (ir 0.5	n. wg) 0.6	0.7	0.8	0.9	1.
					Watts	169	182	210	243	273	301	331	370	433	- 0.9	1.
350 CFM/TON	OFF	OFF	OFF	ON	CFM	1025	1062	1068	1063	1060	1061	1064	1055	1015	-	-
	1		_	-		005	253		045	348	381		440		\vdash	-
400 CEM/TON*	OFF	OFF	OFF	OFF	Watts	225	253	283	315	348	301	414	449	484	-	<u> </u>
400 CFM/TON*	OFF	OFF	OFF	OFF	CFM	1187	1201	1203	1201	1198	1197	1194	1184	1157	-	\vdash
450 CFM/TON	OFF	OFF	ON	OFF	CFM Watts CFM								_	-	-	-
450 CFM/TON ndoor Fan Per Horizontal Airf	off	off	on 4W	OFF	CFM Watts CFM	1187 339	1201 357	1203 390	1201 424	1198 455	1197 483	1194 516	1184 571	1157	-	-
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR	off formation of the second of	off	ON 4W	OFF	CFM Watts CFM	1187 339 1391	1201 357 1377	1203 390 1377	1201 424 1375	1198 455 1366	1197 483 1352	1194 516 1344	1184 571 1360	1157	-	-
450 CFM/TON ndoor Fan Per Horizontal Airf	off	off	on 4W	OFF	CFM Watts CFM	1187 339	1201 357 1377	1203 390 1377	1201 424 1375 External 0.3	1198 455 1366 Static Pri	1197 483 1352 1352 essure (ir	1194 516 1344 1. wg)	1184 571 1360	1157		1.
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR	off formation of the second of	off ance	ON 4W	OFF CY4	CFM Watts CFM	1187 339 1391	1201 357 1377	1203 390 1377	1201 424 1375	1198 455 1366 Static Pr 0.4 270	1197 483 1352 essure (ir 0.5 298	1194 516 1344	1184 571 1360 0.7 355	1157	-	1.
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR AIRFLOW SETTING 350 CFM/TON	formation of the state of the s	off ance	ON SETTI	OFF CY4 NGS 4 ON	CFM Watts CFM O42 Watts	1187 339 1391	1201 357 1377 0.1 181	1203 390 1377 0.2 211	1201 424 1375 External 0.3 241	1198 455 1366 Static Pri	1197 483 1352 1352 essure (ir	1194 516 1344 1. wg) 0.6 327	1184 571 1360	1157 - - - 0.8 382	0.9	11.0
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR AIRFLOW SETTING	formation of the second of the	off ance	ON 4W	OFF CY4	CFM Watts CFM Watts U42 Watts CFM	1187 339 1391	1201 357 1377 0.1 181 1248	1203 390 1377 0.2 211 1250	1201 424 1375 External 0.3 241 1253	1198 455 1366 Static Pri 0.4 270 1254 352 1429	1197 483 1352 essure (ir 0.5 298 1249	1194 516 1344 1. wg) 0.6 327 1240	1184 571 1360 0.7 355 1225	0.8 382 1209 477 1394	0.9 408 1195	12
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR AIRFLOW SETTING 350 CFM/TON	formation of the state of the s	off ance	ON SETTI	OFF CY4 NGS 4 ON	CFM Watts CFM Watts CFM Watts CFM Watts CFM Watts CFM Watts	0.0 - - -	1201 357 1377 0.1 181 1248 261 1444 353	1203 390 1377 0.2 211 1250 296 1448 390	1201 424 1375 External 0.3 241 1253 325 1441 426	1198 455 1366 Static Pr 0.4 270 1254 352 1429 462	1197 483 1352 298 1249 380 1417 499	1194 516 1344 1344 0.6 327 1240 411 1407 536	0.7 355 1225 444 1400 573	0.8 382 1209 477 1394 609	0.9 408 1195 509 1386 645	1,0
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR AIRFLOW SETTING 350 CFM/TON 400 CFM/TON*	OFF formation DIP: OFF OFF	OFF	ON SETTI	OFF CY4	CFM Watts CFM Watts CFM Watts CFM Watts CFM Watts	1187 339 1391	1201 357 1377 0.1 181 1248 261 1444	1203 390 1377 0.2 211 1250 296 1448	1201 424 1375 External 0.3 241 1253 325 1441	1198 455 1366 Static Pri 0.4 270 1254 352 1429	1197 483 1352 essure (in 0.5 298 1249 380 1417	1194 516 1344 1344 0.6 327 1240 411 1407	1184 571 1360 0.7 355 1225 444 1400	0.8 382 1209 477 1394	0.9 408 1195 509	1/
450 CFM/TON ndoor Fan Per Horizontal Airf 4WCY4042-HOR AIRFLOW SETTING 350 CFM/TON 400 CFM/TON*	OFF OFF OFF	OFF SWITCH 2 OFF OFF	ON SETTI	OFF CY4 NGS 4 ON OFF	CFM Watts CFM Watts CFM Watts CFM Watts CFM Watts CFM Watts	0.0 - - -	1201 357 1377 0.1 181 1248 261 1444 353	1203 390 1377 0.2 211 1250 296 1448 390	1201 424 1375 External 0.3 241 1253 325 1441 426	1198 455 1366 Static Pr 0.4 270 1254 352 1429 462 1613	1197 483 1352 essure (ir 0.5 298 1249 380 1417 499 1612	1194 516 1344 0. wg) 0.6 327 1240 411 1407 536 1608	0.7 355 1225 444 1400 573	0.8 382 1209 477 1394 609	0.9 408 1195 509 1386 645	1.
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LENNOX, CA 90304

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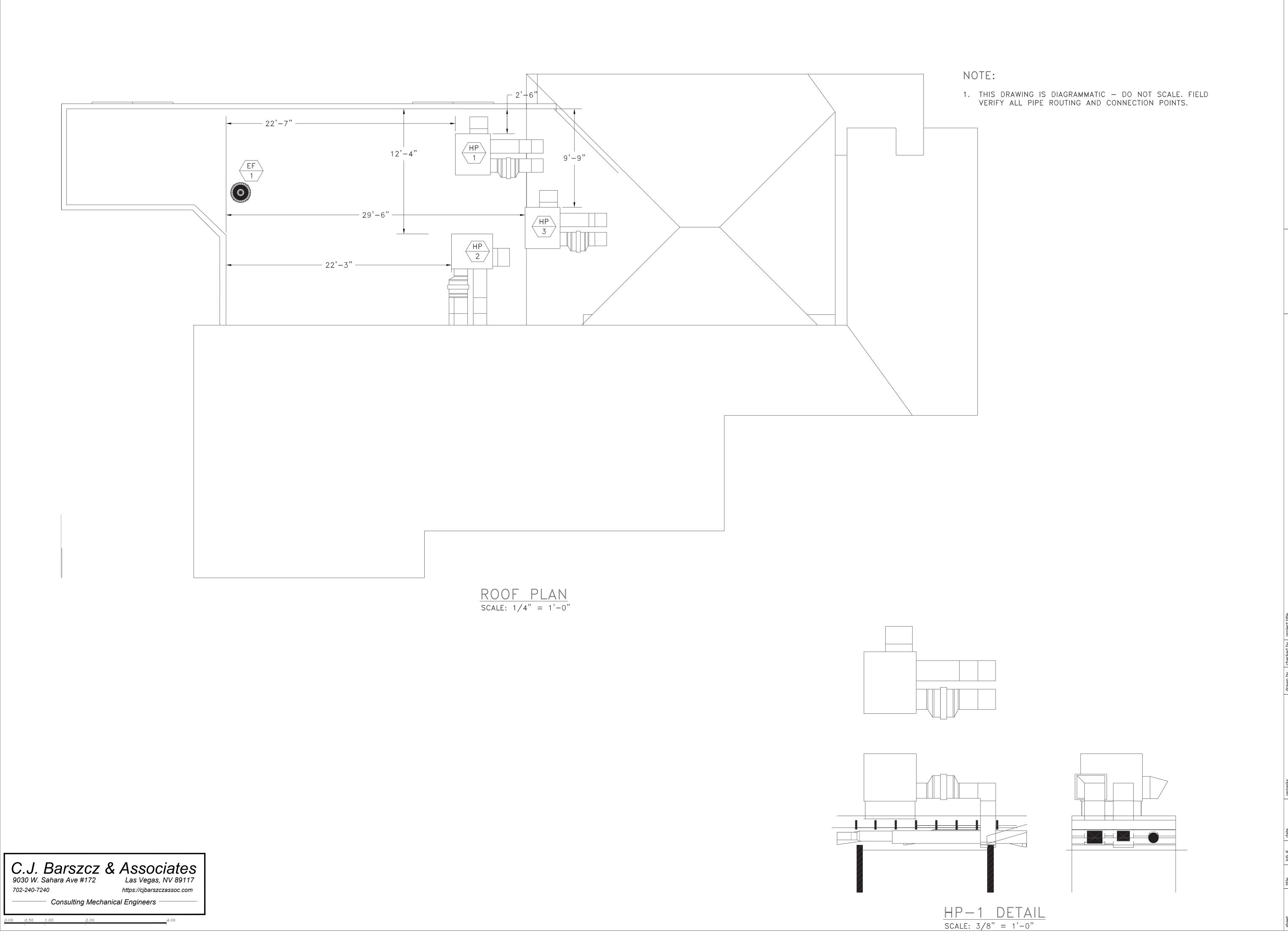
MECHANICAL PLAN FIRST FLOOR

M-2.0

C.J. Barszcz & Associates
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702-240-7240 https://cjbarszczassoc.com

Consulting Mechanical Engineers

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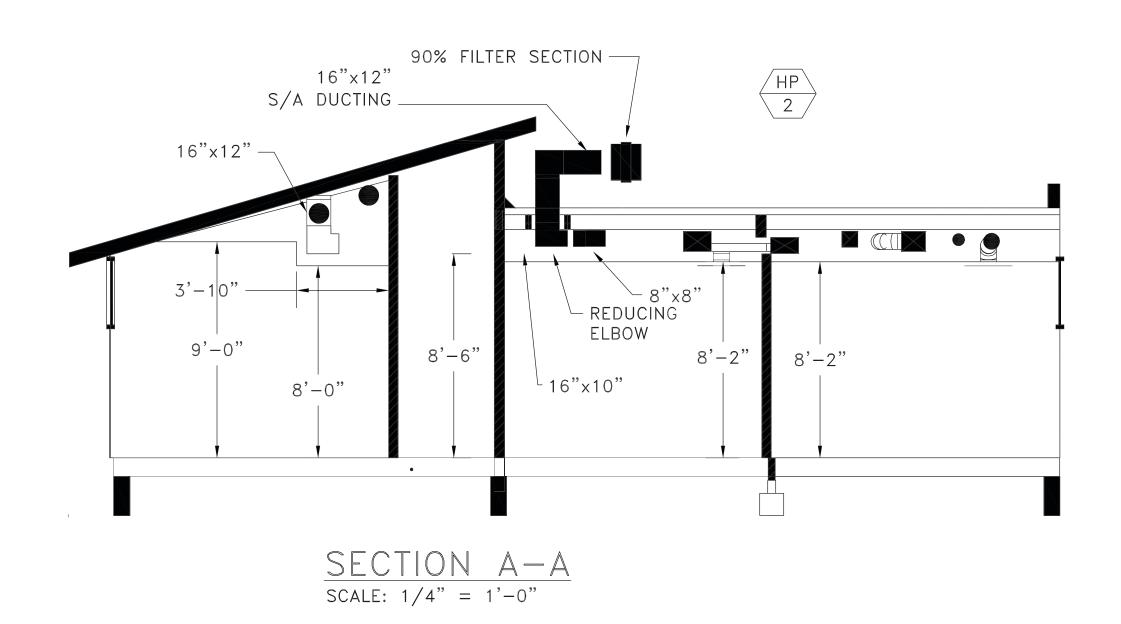
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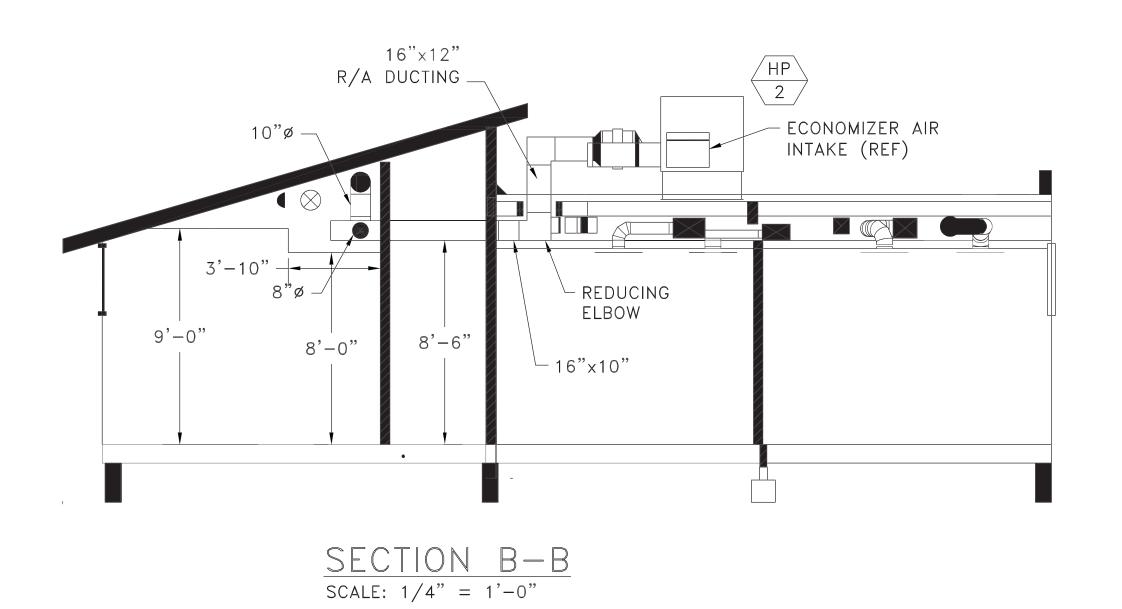
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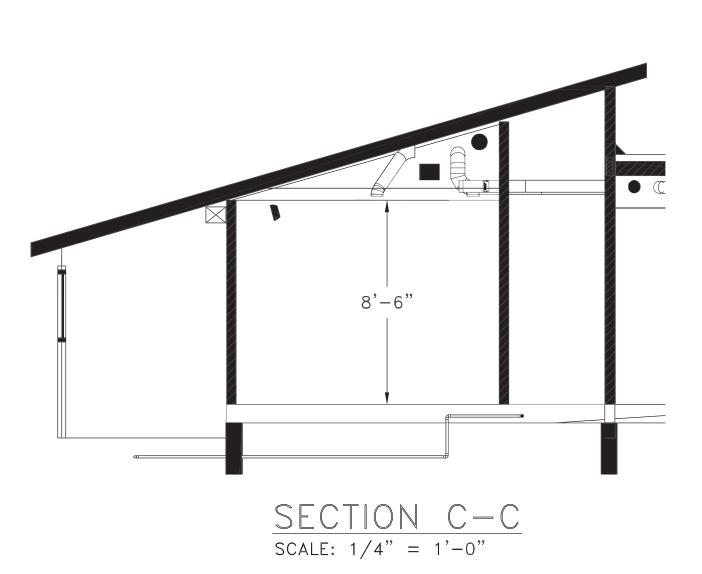
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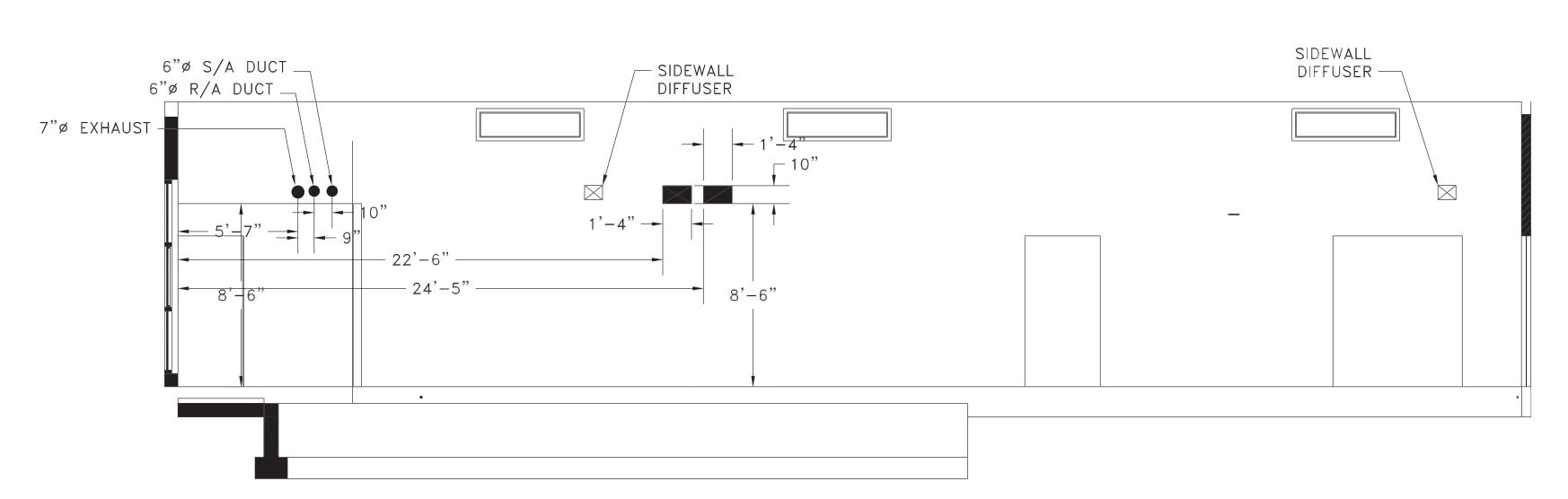
NOTE:

THIS DRAWING IS DIAGRAMMATIC — DO NOT SCALE. FIELD VERIFY ALL PIPE ROUTING AND CONNECTION POINTS.









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MECHANICAL PLAN FIRST FLOOR

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Mechanical Systems Project Name: To Help Everyone (Lennox Clin	с)				Date Pre	epared: 05-Mar-2019	9	Page 1 of 4	Mechanical Systems Project Name: To Help Everyone (Le	nnox Clinic)						Date P	repared: 05-Ma	ar-2019	Ра	age 2 of 4
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ble boxes er of sponsibility I. MCH-11-A Automatic Demand	A. Equipment Tags and System Description MANDATORY MEASURES Heating Equipment Efficiency ³ Cooling Equipment Efficiency ³ HVAC or Heat Pump Thermostats	7-24 Sections	HP-1,-2,-3 Reference to the R		
sponsibility J. MCH-11-A Automatic Demand	MANDATORY MEASURES Heating Equipment Efficiency ³ Cooling Equipment Efficiency ³	T-24 Sections		1	
sponsibility J. MCH-11-A Automatic Demand	Cooling Equipment Efficiency ³	110.1 or 110.2(a)		equirements in the C	ontract Documents
sponsibility J. MCH-11-A Automatic Demand			M-1.2		
MCH-11-A Automatic Demand	HVAC or Heat Pump Thermostats	110.1 or 110.2(a)	M-1.2 M-1.0		
MCH-11-A Automatic Demand	Furnace Standby Loss Control	110.2(b), 110.2(c) 110.2(d)	N/A		
MCH-11-A Automatic Demand	Low Leakage AHUs	110.2(f)	N/A		
ICH-11-A utomatic Demand	Ventilation ⁴ Demand Control Ventilation ⁵	120.1(b) 120.1(c)4	M-1.1 N/A		<u> </u>
tomatic	Occupant Sensor Ventilation Control ⁶	120.1(c)5, 120.2(e)3	N/A		
mand	Shutoff and Reset Controls ⁷	120.2(e)	N/A		
mand	Outdoor Air and Exhaust Damper Control Isolation Zones	120.2(f) 120.2(g)	M-1.0 N/A		_
	Automatic Demand Shed Controls	120.2(h)	N/A		
Control	Economizer FDD	120.2(i)	N/A		
	Duct Insulation	120.4	M-1.0		
	PRESCRIPTIVE MEASURES Equipment is sized in conformance with	To saverage and	Tourseller School	1200 March 1912 March 191	5.22
,—————————————————————————————————————	140.4 (a & b)	140.4(a & b)	● Yes ○ No	○ Yes ○ No	O Yes O No
	Supply Fan Pressure Control	140.4(c)	N/A	N/A	
	Simultaneous Heat/Cool® Economizer	140.4(d) 140.4(e)	N/A M-1.2	N/A N/A	
	Heat and Cool Air Supply Reset	140.4(f)	N/A	N/A	
	Electric Resistance Heating ⁹ Duct Leakage Sealing and Testing. ¹⁰	140.4(g)	N/A	N/A	
	Duct Leakage Sealing and Testing.	140.4(I)	M-1.0	M-1.0	
-01-E of 4	 Provide references to plans (i.e. Drawing paragraphs) where each requirement is The referenced plans and specifications capacity, Title 24 minimum efficiency reverenced requirements are applicable (e.g. full-or equipment is required to be listed per Tit.) Identify where the ventilation requirement unit schedules and sequences of operations. Multiple 20 If one or more spaces has demand contrasequence of operation. If one or more space has occupant sensor the sequence of operation. If the system is DDC identify the sequence For all systems identify the specification. Identify where the heating, cooling and a specification of the zone controls. Provid. Enter N/A if there is no electric heating. If duct leakage sealing and testing is required. 	specified. Enter "N/A" if must include all of the figuirements, and actual and part-load) include all the 20 1601 et seq. ents are documented for on. If one or more space one central air systems recolled ventilation identifier ventilation control identifiers for the system starty for the thermostats and deadband airflows are side a MCH-03-E compliar if the system has electricatived, a MCH-04-A compared.	the requirement is not oblowing information: a rated equipment efficie. Where appliance start each central HVAC system is naturally ventilated by where it is specified in the system of time clocks (if applicated for this system continued by the clocks (if applicated for this system continued by the clocks (if applicated for this system continued by the clocks (if applicated for this system continued by the continued by the clocks (if applicated for this system continued by the clocks (if applicated by the clocks) and the clocks (if applicated by the cl	t applicable to this system in applicable to this system include reference in the complex of the	etem. Internation of the control of
	STATE OF CALIFORNIA HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16)			CALIFORNIA ENER	GY COMMISSION
	HVAC SYSTEM REQUIREMENTS	EMENT		CALIFORNIA ENERGI Date Prepared: 05-Mar-2019	NRCC-MCH-02 (Page 3 of
	HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STAT 1. I certify that this Certificate of Compliance doc	cumentation is accurate a	nd complete.		NRCC-MCH-02
	HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STAT 1. I certify that this Certificate of Compliance documentation Author Name: Chester J. Barszcz	cumentation is accurate a	nd complete. cumentation Author Signature:		NRCC-MCH-02
	HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STAT 1. I certify that this Certificate of Compliance doc Documentation Author Name: Chester J. Barszcz Company: C.J. Barszcz & Associates	cumentation is accurate a Do Sig	nd complete. cumentation Author Signature: nature Date:	Date Prepared: 05-Mar-2019	NRCC-MCH-02
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	HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STAT 1. I certify that this Certificate of Compliance doc Documentation Author Name: Chester J. Barszcz Company: C.J. Barszcz & Associates Address: 9030 W. Sahara Ave #172 City/State/Zip: Las Vegas, NV 89117	Cumentation is accurate a Do Sig	nd complete. cumentation Author Signature: nature Date:	Date Prepared: 05-Mar-2019	NRCC-MCH-02
ent the	HVAC SYSTEM REQUIREMENTS CEC-NRCC-MCH-02-E (Revised 01/16) CERTIFICATE OF COMPLIANCE HVAC Wet System Requirements Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STAT 1. I certify that this Certificate of Compliance documentation Author Name: Chester J. Barszcz Company: C.J. Barszcz & Associates Address: 9030 W. Sahara Ave #172	NT der the laws of the State of Compliance is true and of and Professions Code to a esponsible designer). Cations, materials, componence conform to the require features identified on this uments, worksheets, calculations, this Certificate of Compliance and agency for all application.	nd complete. cumentation Author Signature: nature Date: A/ HERS Certification Identification: 702.240.7240 If California: correct. correct. corpet responsibility for the nents, and manufactured rements of Title 24, Part is Certificate of Compliance is considered and specifications, plans and specificate shall be made available inspections. I understa	on (if applicable): de building design or syst devices for the building 1 and Part 6 of the Calife the are consistent with th cations submitted to the ple with the building per	NRCC-MCH-02 (Page 3 of tem design design or system ornia Code of e information e enforcement mit(s) issued for the ned copy of this
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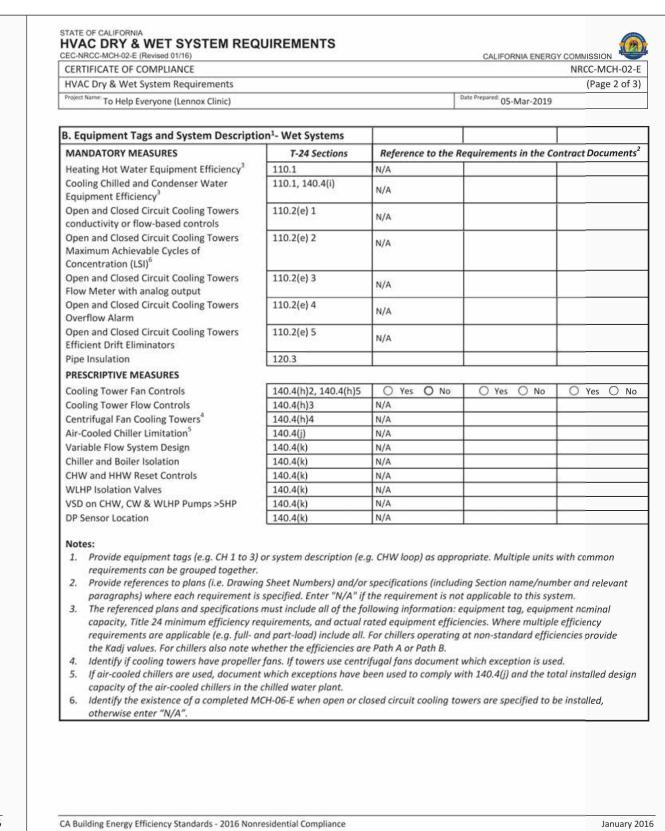
STATE OF CALIFORNIA
HVAC DRY & WET SYSTEM REQUIREMENTS

NRCC-MCH-02-E

(Page 1 of 3)

CERTIFICATE OF COMPLIANCE

HVAC Dry System Requirements





construction management t o t u m

proje							
checked by							
drawn by							
ks							

29-Mar-19 CJB

18-08003.01

TITLE-24 FORMS - 1

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C.J. Barszcz & Associates
9030 W. Sahara Ave #172 Las Vegas, NV 89117 702-240-7240 https://cjbarszczassoc.com Consulting Mechanical Engineers

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CERTIFI	CATE OF C	COMPLIA	NCE															NF	RCC-MCI	1-03-E
Mechar	nical Venti	lation & I	Reheat																Page 1	L of 2
Project Nam	e: To Help	Everyone	(Lennox Cl	linic)										Date Prepa	red: 05-N	ar-2019				
A. Mech	anical Ve	ntilation	and Rehea	at																
ı lieu of	this compli	ance docu	ment, the	required	outdoor v	ventilatio	n rates ar	nd airflov	s may be	shown o	on the pla	ns or the	calculation	s can be	presented i	n a spread	Isheet. N	1echanical	Ventilati	on an
eheat w	orksheet a	vailable or	the Energ	y Commi	ssion's we	ebsite at:	http://w	ww.ener	gy.ca.gov	title24/2	2016stand	dards/.								
ote: In a	ll of the ca	lculations	that compa	are a sup	ply quant	ity to the	REQ'D V.	A. quant	ity, the a	tual perd	entage o	f outdoor	air in the	supply is i	gnored.					
reas in b	uildings fo	r which na	tural venti	lation is u	sed shou	ld be clea	rly desig	nated. Sp	ecificatio	ns must	require th	nat buildir	ng operatir	g instruct	ions includ	le explanat	tions of t	he natura	l ventilati	on
ystem.																				
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	SCHEDU	LES, ETC)				′	AREA BASI	5	OCC	UPANCY E	SASIS	BASIS	BASIS		PRIMARY AIR CFN			PRIMARY	AIR CFM	
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21
ZONE/SYSTEM/VAV BOX TAG	DESIGN PRIMARY COOLING AIRFLOW (CFM)	DESIGN PRIMARY DEADBAND AIRFLOW (CFM)	DESIGN PRIMARY HEATING AIRFLOW (CFM)	CONTROL TYPE DDC (Y/N)	TRANSFER AIRFLOW (CFM)	CONDITIONED AREA (ft.²)	MIN CFM PER AREA	MIN CFM BY AREA	NUMBER OF PEOPLE	CFM PER PERSON	MIN CFM BY OCCUPANT	MIN CFM BY ROOM	REQ'D VENT AIRFLOW (CFM)	COMPLIES?	BASED DESIGN PRIMARY COOLING AIR	MAXIMUM REHEAT (CFM)	COMPLIES?	PRIMARY COOLING AIR	AIRFLOW	COMPLIES?
HP-1 1,200 1,200 1,200 No 0 777 0.15 117 22 15 330 330 PASS																				
HP-2	1,035	1,035	1,200	No	0	643	0.15	96	15	15	225		225	PASS						
	_						0.15	173			270		270	PASS						-

	NRCC-MCH-0
Mechanical Ventilation & Reheat	Page 2 of
Project Name: To Help Everyone (Lennox Clinic)	Date Prepared: 05-Mar-2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete	
Documentation Author Name: Chester J. Barszcz	Documentation Author Signature:
Company: C.J. Barszcz & Associates	Signature Date:
Address: 9030 W. Sahara Ave #172	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Las Vegas, NV 89117	Phone: 702,240,7240
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
	ncy for approval with this building permit application. nade available with the building permit(s) issued for the building, and made available to the enforcemen nis Certificate of Compliance is required to be included with the documentation the builder provides to t Responsible Designer Signature:
	Date Signed:
C.J. Barszcz & Associates	
Address: 9030 W. Sahara Ave #172	License: M-25802
City/State/7ip:	Phone: 702.240.7240
City/State/Zip: Las Vegas, NV 89117	/02.240./240

		CEPTANCE TESTS		CALIFORNIA ENERGY COMMISSION								
CERTIFICATE OF COMPLIANCE NRCC-MCF												
Required Acceptance Tests Page												
Project Name:	To Help Ev	eryone (Lennox Clinic)		Date Prepared: 05-Mar-2019								
A. MECHANICAL COMPLIANCE FORMS & WORKSHEETS (indicate if worksheet is included) For detailed instructions on the use of this and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual Note: The Enforcement Agency may require all compliance documents to be incorporated onto the building plans. The NRCC-MCH-04-E and NRCC-MCH-05-E are alternative compliance documents to NRCC-MCH-01-E, NRCC-MCH-02-E and NRCC-MCH-03-E for projects using only single zone packaged HVAC systems.												
YES	NO	Form	Title									
0	0	NRCC-MCH-04-E (1 of 2)	Certificate of Compliance. Required on plans when used.									
0	0	NRCC-MCH-04-E (2 of 2)	d.									
NRCC-MCH-05-E (1 of 2) HVAC Prescriptive Requirements. It is required on plans when used.												
NRCC-MCH-05-E (2 of 2) Mechanical SWH Equipment Summary is required for all submittals with service water heating, pools or spas. It is required on plans where applicable.												

January 2016

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance

D	OMPLIA	NCE										NRCC-MCH-04-E
Required Acceptan	ice Test	.s										Page 2 of 3
Project Name: To Help I	Everyon	e (Lennox Clin	ic)						Date Prepare	^{d:} 05-Mar-201	.9	
esigner: his compliance doo heck the applicable quipment descripti est. Since this comp	e boxes ion and	by all accept the number	tance tests the r of systems.	at apply and The NA numb	list all equipr per designate	ment that rec s the Section	quires an acce in the Appen	eptance test. I	f all equipme nresidential f	ent of a certai Reference App	n type requires pendices Manu	a test, list the al that describes the
ystems Acceptance ocument is not cor erson performing t hecked-off forms a	e. Before Before Before the test require requirements of the test reference per refere	re occupancy d a complete (Example: H uired for ALL blans, specific	the building of y permit is graded document and installer newly installections, installections, installections, installections, installections, installections.	or space shall anted all new and is not to r, TAB contrac ed and replac llation certific	be certified a rly installed H be accepted ctor, controls ted equipmen cates, and ope	vac equipme by the building contractor, F it. In addition erating and n	e Acceptance ent must be t ng departmen PE in charge on a Certificate naintenance i	ested using that unless the of project) and of Acceptance of formation in	ts for Code Cone Acceptance correct boxes I what Accepte compliance the required the requirements.	e Requiremer s are checked tance test mu e documents sirements of S	nts. The NRCC-I . The equipmer ist be conducte shall be submit	Space is operated for MCH-04-E compliance at requiring testing, d. The following ted to the building b) and Title 24 Part 6
Test Description	n	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-11-A	MCH-12-A	MCH-14-A	MCH-18-A	
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Control Ventilation (DCV)	Supply Fan VAV	Automatic Demand Shed Control	FDD for Packaged DX Units	Distributed Energy Storage DX AC Systems	Energy Management Control System	Test Performed By
HP-1	1	V	V	V	V				V			
	1	✓	V	V	V				V			
HP-2				V	✓				/			
HP-2	1	✓	V									

Required Acceptance Tests Project Name: To Help Everyone (Lennox Clinic) DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Chester J. Barszcz		Page 3 of 3 Date Prepared: 05-Mar-2019					
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT L. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name:		Date Prepared: 05-Mar-2019					
. I certify that this Certificate of Compliance documentation is accurate and complete.		03 14141 2013					
Documentation Author Name							
Occumentation Author Name: Chester J. Barszcz							
	Documentation Author Signature:						
ompany: C.J. Barszcz & Associates	Signature Date:						
oddress: 9030 W. Sahara Ave #172	CEA/ HERS Certification Identification (if appli	icable):					
City/State/Zip: Las Vegas, NV 89117	Phone: 702.240.7240						
RESPONSIBLE PERSON'S DECLARATION STATEMENT							
 The building design features or system design features identified on this Certificate of C worksheets, calculations, plans and specifications submitted to the enforcement agency. I will ensure that a completed signed copy of this Certificate of Compliance shall be made agency for all applicable inspections. I understand that a completed signed copy of this building owner at occupancy. Chester J. Barszcz 	y for approval with this building permit ap de available with the building permit(s) iss	oplication. sued for the building, and made available to the enforcement					
Company: C.J. Barszcz & Associates	Date Signed:						
Address: 9030 W. Sahara Ave #172	License: M-25802						

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

integrated design construction management

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LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

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29-Mar-19 CJB 18-08003.01

TITLE-24 FORMS - 2

C.J. Barszcz & Associates
9030 W. Sahara Ave #172 Las Vegas, NV 89117
702-240-7240 https://cjbarszczassoc.com

Consulting Mechanical Engineers

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

ELECTRICAL SPECIFICATION

GENERAL

THE PROVISIONS OF THE GENERAL CONDITIONS ARE PART OF THIS SECTION AS THOUGH FULLY SET FORTH HEREIN. BEFORE SUBMITTING THIS BID, THE BIDDER SHALL VISIT THE SITE, DETERMINE ANY EXISTING CONDITIONS WHICH MAY AFFECT THE COST OF WORK UNDER THIS SECTION, AND INCLUDE ALLOWANCE FOR SUCH IN HIS BID.

2. WORK INCLUDED:

FURNISH MATERIALS AND PERFORM LABOR REQUIRED TO EXECUTE THIS WORK AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS NECESSARY TO COMPLETE THE CONTRACT, INCLUDING, BUT NOT LIMITED TO THESE MAJOR ITEMS:

- A. PROVIDE NEW DISTRIBUTION BOARD.
- B. PROVIDE NEW BRANCH CIRCUITS, WIRING, OUTLETS, LIGHTING FIXTURES AND WIRING DEVICES AS SHOWN AND SCHEDULED.
- C. PROVIDE ALL REQUIRED LAMPS.
- D. PROVIDE DATA/TELEPHONE OUTLETS
 WITH CONDUIT STUBBED INTO CEILING SPACE AND WITH NYLON
- E. PROVIDE SUPPORTS FOR FOR ALL LIGHT FIXTURES.
- F. TEST THE COMPLETED WORK. CORRECT ANY DEFECTS TO THE SATISFACTION OF CLIENT REPRESENTATIVE.

ELECTRICAL DRAWINGS:

IN GENERAL, THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE LOCATIONS OF OUTLETS AND EQUIPMENT AND THE CIRCUIT ARRANGEMENT OF THE REQUIRED WIRING. ALTHOUGH NOT NECESSARILY INDICATING THE ACTUAL RUNS OF CONDUCTORS, THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS COORDINATION WITH THE 13. WORK OF OTHER TRADES AND THE SITUATION WILL PERMIT. THE DRAWINGS ARE NOT INTENDED TO BE SCALED, AND THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND LIMITATIONS OF THE BUILDING STRUCTURE AND FINISH. ANY DISCREPANCIES, CONFLICTS, OR QUESTIONABLE POINTS SHALL BE IMMEDIATELY REPORTED TO ENGINEER. IF THE RELOCATION OF ANY OUTLETS IS REQUIRED, IT SHALL BE MADE BY THE CONTRACTOR WITHOUT EXTRA COST, PROVIDED THE NEW LOCATIONS NOT MORE THAN FIVE FEET FROM LOCATION SHOWN ON THE DRAWINGS AND PROVIDED THE CHANGE IS ORDERED BEFORE THE OUTLET IS INSTALLED. ALL ITEMS NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS OR NOTED ON THE DRAWINGS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION SHALL BE INCLUDED.

4. ORDINANCE REQUIREMENTS:

THE ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND OTHER LEGAL REQUIREMENTS. IN CASE OF CONFLICTS BETWEEN CODE REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY, EXCEPT THAT WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS EXCEED CODE REQUIREMENTS, THE SPECIFICATION SHALL GOVERN. ALL LIGHTING WORK SHALL COMPLY WITH STATE OF CALIFORNIA TITLE 24 REQUIREMENTS.

5. PERMITS AND INSPECTIONS:

THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND FEES REQUIRED FOR THE EXECUTION OF HIS WORK. HE SHALL ARRANGE FOR A PAY FOR ALL REQUIRED TESTS AND INSPECTIONS. HE SHALL GIVE ALL NOTICES REQUIRED BY ANY AND ALL LAWS, RULES, REGULATIONS AND ORDINANCES WHICH PERTAIN TO HIS WORK.

6. TESTS:

CONTRACTOR SHALL CONDUCT SUCH TESTS OF ANY PORTION OF INSTALLATION AS MAY BE NECESSARY TO INSURE FULL COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. THE COST OF TESTING SHALL BE BORNE BY THE CONTRACTOR AND CONTRACTOR SHALL PROVIDE ALL INSTRUMENTS, EQUIPMENT, LABOR AND MATERIALS TO COMPLETE TEST. SHOULD THESE TESTS INDICATE ANY DEFECT IN MATERIALS OR POOR WORKMANSHIP OR VARIANCE WITH REQUIREMENTS OR SPECIFICATIONS, THE CONTRACTOR SHALL MAKE ANY CHANGES NECESSARY AND REMEDY ANY DEFECTS AT HIS OWN EXPENSE.

7. GUARANTEE:

EQUIPMENT AND ACCESSORIES INSTALLED UNDER THIS SECTION SHALL CARRY THE MANUFACTURER'S GUARANTEE FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE EQUIPMENT. THE CONTRACTOR SHALL GUARANTEE IN WRITING, IN A FORM ACCEPTABLE TO CLIENTS, THE ENTIRE ELECTRICAL INSTALLATION AGAINST DEFECTIVE MATERIALS AND IMPROPER WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. DURING THE PERIOD COVERED BY THE GUARANTEE, CONTRACTOR SHALL MAKE NECESSARY REPLACEMENTS AND REPAIRS AT NO COST TO CLIENT.

8. COOPERATION WITH OTHERS:

THE CONTRACTOR SHALL CONSULT AND COOPERATE FULLY WITH ALL OTHER CONTRACTORS FURNISHING LABOR, MATERIALS, OR SERVICES, SO THAT THE WORK, AS A WHOLE SHALL BE EXECUTED IN THE MOST 20. EFFICIENT MANNER, AND WITHOUT CONFLICT OR DELAY.

9. MATERIALS:

ALL MATERIALS AND EQUIPMENT USED IN THE ELECTRICAL WORK HEREIN SPECIFIED SHALL BE NEW (UNLESS OTHERWISE NOTED OR SCHEDULED), AND SUITED TO THE INTENDED USE, AND SHALL BE LISTED BY THE UNDERWRITERS' LABORATORIES, INC., AND SHALL MEET THEIR REQUIREMENTS AND BEAR THEIR LABEL WHENEVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS REGULARLY FURNISHED BY THAT AGENCY. ALL MATERIALS AND EQUIPMENT SHALL BE OF THE MAKES AND TYPES SPECIFIED, AND NO SUBSTITUTIONS WILL BE ALLOWED UNLESS APPROVED IN WRITING BY ENGINEER. ENGINEER RESERVES THE RIGHT TO REJECT ANY MATERIAL OR EQUIPMENT, EITHER BEFORE OR AFTER INSTALLATION, IF,IN HIS OPINION, THE MATERIAL, EQUIPMENT, OR INSTALLATION IS NOT IN COMPLIANCE WITH THESE SPECIFICATIONS.

10. CONDUIT INSTALLATION:

ALL CONDUITS INSTALLED IN FINISHED AREAS SHALL BE CONCEALED EXCEPT AS OTHERWISE INDICATED ON THE DRAWINGS OR HEREIN SPECIFIED. ELECTRIC METALLIC TUBING, IN SIZE TWO INCHES OR SMALLER, SHALL BE USED WHERE EXPOSED TO DRY LOCATIONS, IN STUD WALLS, FURRED CEILINGS AND SIMILAR LOCATIONS.

FLEXIBLE STEEL CONDUIT SHALL BE USED, IN SHORT LENGTHS, FOR FINAL CONNECTIONS TO LIGHTING FIXTURES AT LOCATIONS WHERE E.M.T. IS IMPRACTICAL. USE RIGID STEEL CONDUIT FOR ANY OTHER INSTRUCTIONS. USE OF ROMEX, MC CABLES OR OTHER TYPES OF SIMILAR WIRING METHODS WILL NOT BE PERMITTED.

SUPPORT HORIZONTAL RUNS OF CONDUIT NOT MORE THAN 10' OF CENTER. INSTALL ALL RACEWAYS TRUE & PARALLEL TO BUILDING LINES. MINIMUM SIZE OF CONDUIT USED IN PROJECTS SHALL BE 1/2" DIAMETER. CONDUITS INSTALLED IN TRENCHES SHALL BE PVC, SCHEDULE 40.

11. WIRE AND CABLE:

FURNISH AND INSTALL WIRES AND CABLES OF THE SIZE AND TYPE SHOWN ON DRAWINGS AND AS SPECIFIED HEREIN. UNLESS OTHERWISE SPECIFIED ALL WIRE AND CABLE SHALL BE U.L. STANDARD ANNEALED COPPER WIRE WITH U.S. 600-VOLT INSULATION. WIRES SHALL BE TYPE "THW", "THHN" OR "THHW".

ALL BRANCH CIRCUIT WIRE NO.12 THROUGH NO.8 SHALL BE COLOR CODED. POWER CIRCUITS SHALL BE BLACK, RED, AND YELLOW. LIGHTING CIRCUITS SHALL BE WHITE, AND THREE COLORS. GREEN WIRES SHALL BE USED ONLY FOR EQUIPMENT GROUND.

12. CONDUCTOR IDENTIFICATION:

ALL POWER AND LIGHTING FEEDERS SHALL BE TAGGED AT EACH POINT WHERE THE CONDUIT RUN IS BROKEN. ALL BRANCH CIRCUIT CONDUCTORS AT PANELBOARDS AND SWITCHBOARDS SHALL BE IDENTIFIED WITH "E-Z" CODE MARKERS.

3. WIRING DEVICES:

ALL WIRING DEVICES SHALL BE FIRST QUALITY, "SPECIFICATION" GRADE, AND SHALL BE OF COLOR SELECTED BY ARCHITECT. EQUIVALENT ITEMS MAKE BY ARROW—HART, HUBBELL OR SIERRA WILL BE CONSIDERED EQUAL AND ACCEPTABLE.

14. LIGHTING FIXTURES:

THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL LIGHTING FIXTURES AS INDICATED ON DRAWINGS. CONTRACTOR SHALL PROVIDE HANGERS AND ACCESSORIES NECESSARY TO MAKE A COMPLETE INSTALLATION. COORDINATE ALL LIGHTING INSTALLATION WITH REFLECTED CEILING PLAN PROVIDED BY ARCHITECT. VERIFY EXACT FIXTURE TYPE, LENS AND FINISHES WITH ARCHITECT, UNLESS FIXTURE CATALOG NUMBER AND MANUFACTURER ARE INDICATED ON ELECTRICAL PLANS.

15. EQUIPMENT CONNECTION:

IT SHALL BE CLEAR THAT ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING ALL FINAL CONNECTIONS FROM J-BOX OR DISCONNECT SWITCH TO HVAC, PLUMBING, KITCHEN, OR OTHER TYPE OF EQUIPMENT, UNLESS IT IS SPECIFICALLY STATED THAT THOSE CONNECTION SHALL BE MADE BY OTHERS.

16. EQUIPMENT CONTROLS AND INTERLOCK:

CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH ALL CONTROL—INTERLOCK REQUIREMENTS AND DIAGRAMS INDICATED ON HVAC, PLUMBING AND OTHER TRADE DRAWINGS AND SPECIFICATIONS.

CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL DEVICES (MAGNETIC MOTOR STARTERS, RELAYS, SELECTOR SWITCHES, PUSH BUTTON STATIONS, ETC.) AND PROVIDE ALL NECESSARY WIRING, CONDUIT SYSTEM AND CONNECTIONS TO HAVE A COMPLETE AND OPERABLE CONTROL—INTERLOCK SYSTEM, UNLESS THIS WORK IS SPECIFICALLY EXCLUDED FROM CONTRACTOR'S SCOPE OF WORK.

17. SWITCHBOARDS, PANELBOARDS AND PANELS DIRECTORIES:

CONTRACTOR SHALL PROVIDE ACCURATE AND CORRECT PANELBOARD AND PANEL DIRECTORIES WITH INDICATION OF CIRCUIT NUMBER, TYPE OF LOAD AND LOAD SIZE FED BY THIS CIRCUIT.

18. ELECTRICAL BOXES:

MOUNT BOXES TO BUILDING STRUCTURE WITH SUPPORTING FACILITIES INDEPENDENT OF RACEWAYS ENTERING OF LEAVING BOXES. SET BOXES SQUARE AND TRUE WITH RESPECT TO BUILDING FINISHED SURFACES.

19. EXISTING OBSTRUCTIONS:

WHERE REQUIRED INSTALLATION OF ELECTRICAL EQUIPMENT AND DEVICES INTERFERES WITH EXISTING BUILDING STRUCTURAL, HVAC OR OTHER OBSTRUCTIONS, INSTALL ELECTRICAL EQUIPMENT IN THE NEAREST VICINITY OF INDICATED LOCATION CLEAR OF ANY OBSTRUCTIONS. VERIFY AND MAINTAIN ALL CODE REQUIRED CLEARANCES. NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO EQUIPMENT INSTALLATIONS.

20. CLEANING:

THE ELECTRICAL CONTRACTOR SHALL REMOVE FROM SITE ALL PACKING CARTONS, SCRAP MATERIALS, AND OTHER RUBBISH AND LEAVE THE PREMISES IN A CONDITION ACCEPTABLE TO THE CLIENT.

		INDOOR/OUTDOOR LIGHTING FIXTURE SCI	HEDULE
TYPE	SYMBOL	DESCRIPTION	COMMENTS
A 14	•	LUM-TECH 6" LED 14W RECESSED DOWNLIGHT LEDH-CFK6-14-8-30-UZTD-LEDT-R64-WH -	TRIM AND COLOR BY ARCHITECT
AE 14	•	SAME AS FIXTURE ABOVE, WITH 90 MINUTE EMERGENCY BACK UP LEDH-CFK6-14-8-30-LEDT-R64-WH-EM	1867 LUMENS PER FIXTURE
AA 23	0	LUM-TECH 6" LED 23W RECESSED DOWNLIGHT - LEDH-CFK6-14-8-30-UZTD-LEDT-R64-WH -	- - - -
AAE 23	©	SAME AS FIXTURE ABOVE, WITH 90 MINUTE EMERGENCY BACK UP LEDH-CFK6-14-8-30-LEDT-R64-WH-EM	2200 LUMENS PER FIXTURE
A1 34	0	LUM-TECH 6" LED RECESSED DOWNLIGHT - EXTERIOR APPROVED - LUM-TECH LIGHTING	- - - -
A2 34	←○	LUM-TECH 6" LED RECESSED DOWNLIGHT - EXTERIOR APPROVED WALL WASHER LEDH-CFK6-14-8-30-LEDT-R636-WH -	- - - -
B 44		2' x 2', RECESSED FIXTURE AT1-22-L40/835-DIM-UNV H.E. WILLIAMS	4000 LUMENS PER FIXTURE
BB 50		2' x 2', RECESSED FIXTURE AT1-22-L50/835-DIM-UNV H.E. WILLIAMS	5000 LUMENS PER FIXTURE
D 1.5 LF		UNDER CABINET LIGHTING SSL-UNDERLINE EDGE UNLE-VERIES-3K-WH -	COLORS, FINISHES ETC, BY THE ARCHITECT
E 18		MIRROR-LUX-ADA - MLWC4018 MIRROR WITH LIGHTS MANUFACTURER: AAMSCO LIGHTING GROUP	- - - -
H 3	€↑	EXIT SIGN EELP — SURFACE MOUNTED LED EDGELITEXIST SIGN EDG-1-6-W-W-EM-SD 90 MINUTE EMERGENCY BACK UP SYSTEM.	300 LUMENS PER LAMP.
J 24		FC LIGHTING WALL SCONCE WET LOCATION FCW1011LED -	- - - -
K 50		WALL SCONCE, LED DESIGNEDF FOR OUTDOOR LOCATION. TO BE SELECTED BY ARCHITECT ASSUME MAXIMUM 50 WATT	- - - -
L 14	(1)	3" LED RECESSED DOWNLIGHT DLED9531-14-UZTD-TML234ST-14-8-35-M-WH LUM TECH	

ELECTRICAL SYMBOLS

LIGHTING TOGGLE SWITCH, SUBSCRIPT "a" DENOTES
OUTLET CONTROLLED
D - DENOTES DIMMER

CONVENIENT DUPLEX OUTLET, 120 V, 1 PHASE, 20 A
+15" A.F.F. U.O.N.

DOUBLE DUPLEX OUTLET, 120 V, 1 PHASE, 20 A

DUPLEX OUTLET ON DEDICATED CIRCUIT

FLOOR MOUNTED DUPLEX OUTLET.

FOR LIGHTING FIXTURE LEGEND, SEE FIXTURE SCHEDULE, SAME DRAWING.

FLOOR MOUNTED QUAD OUTLET.

+15" A.F.F. U.O.N.

JUNCTION BOX

CONDUIT RUN CONCEALED IN WALL OR CEILING, 2#12 + 1#12 GND, 1/2"C

3#12 + 1#12 GND, 1/2" C

∰ 4#12 + 1#12 GND, 1/2" C

"D"-2

HOME RUN TO PANEL "D", CIRCUIT #2

STUB 3/4" C.O. TO THE SPACE ABOVE CEILING

PANEL, 120/208V, 3 PHASE, 4 WIRE, RATING AS NOTED

TELEPHONE /DATA OUTLET, 15" A.F.F. U.O.N.

LIGHTING FIXTURE DESCRIPTION, FIXTURE TYPE "A",
TOTAL WATTAGE INCLUDING CONTROLLERS: 14 WATTS

25 ROOM NUMBER

1 NUMBERED NOTES

 $\boxed{\mathsf{F}}$ FUSED DISCONNECT SWITCH, RATING AS NOTED.

 ${\sf S}_{\sf M}$ MANUAL MOTOR STARTER WITH OVERLOAD PROTECTION.

ABBREVIATIONS

A AMPERE

A.F.F. ABOVE FINISHED FLOOR

C.O. CONDUIT ONLY

GFI GROUND FAULT INTERRUPTER

U.O.N. UNLESS OTHERWISE NOTED

V VOLT

WP WEATHER PROOF

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LENNOX, CA 90304

ELECTRICAL LEGEND, SHORT SPECS & LIGHTING FIXTURE SCHEDULE

V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

E-1

GENERAL HEALTH CARE FACILITY REQUIREMENTS

GEN	NERAL	ELECTRICAL DEVICES, EQU AND INSTALLATION	IPMENT
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE LISTED, LABELED OR CERITFIED FOR ITS USE BY A NATIONALLY RECOGNIZDED TESTING LABORATORY (NRTL)	CEC 110.2
2		LISTED OR LABELED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED BY ITS MANUFACTURER.	CEC 110.3(B)

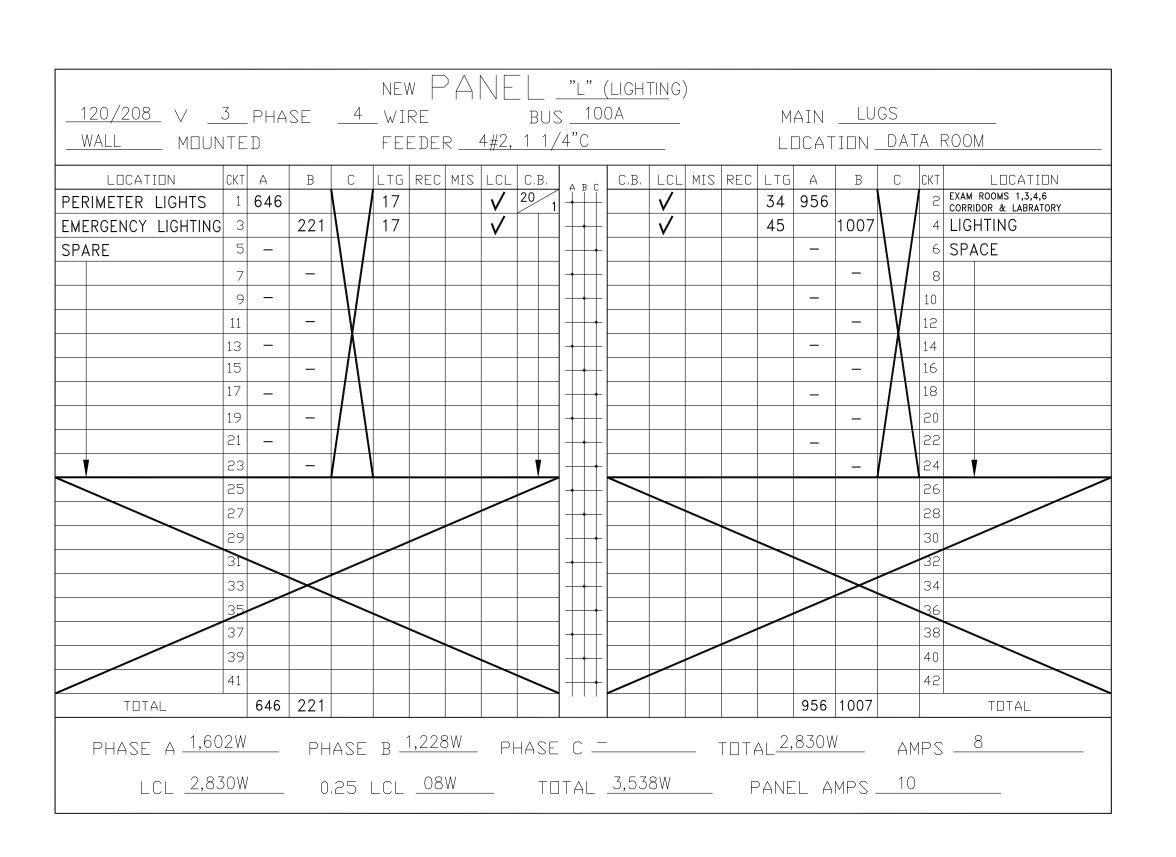
GENERAL		DEVICE IDENTIFICATIO	N
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1	LIFE SAFETY CRITICAL	ALL RECEPTACLES AND LIGHT SWITCHED CONNECTED TO EMERGENCY SYSTEM SHALL HAVE A DISTINCTIVE MARKING OR COLOR TO IDENTIFY THEY ARE ON EMERGENCY SYSTEM.	CEC 517.30(E) CEC 517.41(E)
2	CRITICAL	ALL RECEPTACLES IN CRITICAL CARE PATIENT AREAS SHALL BE MARKED WITH THE PANEL AND CIRCUIT NUMBER SUPPLYING THEM	CEC 517.19(A)
3		IDENTIFY ALL BOXES AND ENCLOSURES ON EMERGENCY SYSTEM.	CEC 700.10(A)
4		PANELBOARDS SHALL HAVE AN ACCURATE CIRCUIT DIRECTORY.	CEC 408.4(A)
5		ALL SWITCHBOARD AND PANELBOARDS SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE POWER SUPPLY ORGINATES.	CEC 408.4(B)
6		ELECTRICAL EQUOPMENT SHALL BE MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS.	CEC 110.16
7		SERVICE EQUIPMENT SHALL BE MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. INCLUDE THE DATE AND FAULT CURRENT. INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PREFORMED.	CEC 110.24(A)

GEI	NERAL	DEVICE IDENTIFICATIO	N
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		SEPARATION OF 24 INCHES (HORIZONTAL DISTANCE) FOR SWITCH OR OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS.	CBC 714.3.2 EX. 1.1
2		ARTIFICIAL LIGHTING LEVELS SHALL BE PER THE ILLUMINATING ENGINEERS SOCIETY OF NORTH AMERICA (IESNA) LIGHTING HANDBOOK FOR OSHPD 1, 2, 3 & 4 AND ANSI/IESNA RP-28, RECOMMENDED PRACTICE FOR LIGHTING AND THE VISUAL ENVIRONMENT FOR SENIOR LEVEL FOR OSHPD 2.	CEC 517.22(A) AND (B) OSHPD PIN 13- LIGHTING SYSTEM RETROFIT
3		LAMPS SHALL BE PROTECTED AGAINST ACCIDENTAL BREAKAGE.	CEC 517.22(C)
4		FLEXIBLE METAL BE PERMITTED FOR CONNECTION TO LIGHT FIXTURES.	CEC 330 CEC 348.20(A)(2)(c) CEC 410
5		WIRING OF THE SAFETY AND CRITICAL BRANCH SHALL BE ALLOWED TO SHARE THE SAME RACEWAY, BOX, OR CABINET, WITH THE NORMAL BRANCH IF IN AN EXIT SIGN OR EMERGENCY SYSTEM POWER LUMINAIRE LUMINAIRE SUPPLIED BY TWO SOURCES.	CEC 517.30(C)(2) AND (3) CEC 517.41(D)(2) AND (3)
6		LIGHT SWITCHES SHALL NOT BE WITHIN 5 FEET OF THE PERIMETER OF SHOWER STALLS AND BATHTUBS.	CEC 404.4
7	LIFE SAFETY	SWITCHING RESTRICTIONS FOR LIGHT FIXTURES ON THE LIFE SAFETY BRANCH.	CEC 517.32(A) CEC 517.42(A) CEC 700.20
8		PROVIDE MEANS TO DISCONNECT ALL UNDERGROUNDED CONDUCTORS IN A MULTI-WIRE BRANCH CIRCUIT.	CEC 210.4(B)
9	ESSENTIAL	LIGHT SWITCHES SUPPLIED FROM THE ESSENTIAL ELECTRICAL SYSTEM SHALL HAVE A DISTINCTIVE COLOR OR MARKING AS TO BE READILY IDENTIFIABLE.	CEC 517.30(E) CEC 517.41(E)
10	ESSENTIAL	WHERE EMERGENCY ILLUMINATION IS PROVIDED BY ONE OR MORE DIRECTLY CONTROLLED LUMINAIRES THAT RESPOND TO AN EXTERNAL CONTROL INPUT TO BYPASS NORMAL CONTROL LOSS OF NORMAL POWER, SUCH LUMINAIRES AND EXTERNAL BYPASS CONTROLS SHALL BE INDIVIDUALLY LISTED FOR USE IN EMERGENCY SYSTEMS.	CEC 700.24

GEN	NERAL	PANELBOARDS	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		PROVIDE GROUND BOND BETWEEN PANELBOARDS SERVING THE SAME PATIENT LOCATION.	CEC 517.14
2		PANELBOARDS NOT ALLOWED IN PATIENT CARE ROOMS UNLESS THEY SERVE THAT ROOM.	CEC 517.12(A)

GEN	NERAL	CONDUITS AND CABLE	ES
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
4		NON-METALLIC SHEATHED CABLE (i.e. NM, NMC, ROMAX) IS NOT PERMITTED FOR USE IN PATIENT AREAS, EMERGENCY SYSTEM WIRING, OR STRUCTURES OF TYPE I AND TYPE II CONSTRUCTION WITHOUT A CONDUIT.	CEC 334.12 CEC 517.13 CEC 517.30(C)(3)
5		FLAT CONDUCTOR CABLE (FCC) IS NOT PERMITTED FOR USE IN HEALTH CARE FACILITIES.	CEC 324.12(4)
6		LOW VOLTAGE CABLE FOR FIRE ALARM, NURSE CALL, COMMUNICATION SYSTEMS, ETC. ARE NOT REQUIRED TO BE IN CONDUIT IF THE POWER SUPPLIES ARE 'POWER LIMITED' AND THE CONDUCTORS ARE LISTED FOR SUCH USE.	CEC 517.30(E) CEC 517.41(E)

GEN	NERAL	RECEPTACLES	
ITEM	BRANCH	REQUIREMENTS	APPLICABLE CODES
1		RECEPTACLES IN PATIENT CARE AREAS SHALL BE PROVIDED WITH A GREEN INSULATED COPPER GROUNDING CONDUCTOR.	CEC 517.13(B)(1)(1)
2		GFCI FOR RECEPTACLES AND FIXED EQUIPMENT IN WET LOCATIONS.	CEC 517.20(A)
3		GFCI RECEPTACLE LOCATED WITHIN 25 FEET OF ALL HEATING, VENTILATION AIR—CONDITIONING AND REFRIGERATION EQUIPMENT. RECEPTACLES SHALL BE LOCATED ON THE SAME LEVEL AS THE EQUIPMENT. RECEPTACLES SHALL BE LOCATED ON THE SAME LEVEL AS THE EQUIPMENT. RECEPTACLE SHALL NOT BE CONNECTED TO THE LOAD SIDE OT THE EQUIPMENT DISCONNECTED MEANS.	CMC 301.4 CMC 210.63
4		SEPARATION OF 24 INCHES (HORIZONTAL DISTANCE) FOR SWITCH OR OUTLET BOXES IN FIRE RATED WALLS AND PARTITIONS.	CBC 714.3.2 ex. 1.1



	<u>208</u> v <u> </u>												DA				MAIN LOCAT			A I	LOCATION
L	CATION	СКТ	Α	В	С	LTG	REC MI	S LC	L	 B.			C.B. L	_CL	MIS	REC	LTG A	В		СКТ	LOCATION
EXAM ROC	MS 6, 4 & 3	1	900				5		20	0/1		Ϋĺ	20 1			4	LTG A 720			2	EXAM ROOM 1 & 3
,,	,,			900			5					 				3		540		4	"
,,	,,	5			900		5					+ $ $				3			540	6	"
EXAM ROOMS	1, 3 & 4 CHAIR	7	912				,					 				1	1000			8	MICROWAVE
,,	,,	9		912								 				1		800		10	REFRIGERATOR
**	,,	11			912		,					+ $ $				6			1080	12	GENERAL AREA
GENERAL .	AREA	13	1260				7					+[5	900			14	" "
,,	,,	15		1080			6					 				7		1260		16	CONTROLLED OUTLETS
,,	,,	17			1080		6					+ $ $			1				912	18	EXAM ROOM 6 CHAIR
,,	,,	19	1080				6					 				5	900			20	EXAM ROOM 2 & 5 CHAIR
**	,,	21		1260			7					+				6		1080			"
,,	,,	23			1260		7					+ $ $			1				912	24	"
ROOF OUT	LET	25	180				1					+			1		912			26	"
OPEN OFF	ICE	27		540			3				++	+[5		900		28	OUTDOOR OUTLET
SPARE		29										+ $ $	V			1			500	30	MEDICAL STATION
		31										+[20 /	/			500			32	EXHAUST FAN
		33										+[2 1	/				500		34	V
		35										+[36	SPACE
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V		41								V	+	+								42	
·	TOTAL		4,332	4,692	4,152							_					4,932	5,080	3,944		TOTAL
PHA	ASE A 9,26	64W		PH	ASE	В _),772W	F	PH4	4SE	С.	8,	,096W		_	TDTA	_{AL} 27,132	W	ΑM	1PS	3 75

NUMBERED NOTES - (THIS SHEET ONLY)

1 PROVIDE JOIN HANDLE FOR SINGLE POLE CIRCUIT BREAKERS.





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 KG
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GENERAL HEALTH CARE FACILITY REQUIREMENTS NOTES & PANEL SCHEDULES

E-2

CERTIFICATE O	E (Revised 04 DE COMPLIA							CALIFORNIA ENERGY COMMISSION NRCC-LTI-01:
Indoor Lighting		100 mg R 1980 mg						(Page 1 of
Project Name: LEI		INIC				Date Pr	epared:	10/02/18
A. General In	formatio	n						
Climate Zone:		Conditione	d Floo	or Area: 2,715 SF				
		Unconditio	ned F	loor Area:				
Building Type:			✓	Nonresidential		High-Rise Residential		Hotel/Motel
☐ Schools				Relocatable Public Schools	V	Conditioned Spaces		Unconditioned Spaces
Phase of Const	truction:			New Construction		Addition		Alteration
Method of Con	mpliance:			Complete Building	✓	Area Category		Tailored
Project Addres	s: 10223	FIRMONA A	VE. I	ENOX, CA 90340	L			
Ø	0	NRCC	-LTI-00	2-E Lighting Controls Certificate of t	ages re Compli:	30 90 90 40	ed on i	plans for all submittals
8800	000	NRCC NRCC	-LTI-03 -LTI-03 -LTI-04 -LTI-05	B-E Indoor Lighting Power Allowand L-E Tailored Method Worksheets	Complia e	ance, and PAF Calculation. All Pages requi	ed on I	plans for all submittals.
0	0 0 0	NRCC NRCC	-LTI-03	B-E Indoor Lighting Power Allowand B-E Tailored Method Worksheets B-E Line Voltage Track Lighting World	Complia e ksheets	ance, and PAF Calculation. All Pages requi	red on I	plans for all submittals.
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Droject Name						To:			Page 5 o
riojedi Name	ELENNOX CLINIC						Date Prepared: 10/02/18		
CONDI	E Lighting Schedule Must Be Filled Out for Condition TIONED SPACE UNCONDITIONED SPACE T Lighting Schedule and Field Inspection Ene			d Spaces.	Installed L	ighting Pow	er listed on this Lighting Schedule is (only for:	
	Luminaire Schedule			nstalled Wa	atts		Location	Field In	spector 1
01	02	03	T	04	05	06	07	24.1-24.00.11	08
Special State		5,040,42	20012000	ttage was mined	(14.77.6.79.77	ed s area			
Name or Item Tag	Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast)	Watts per Luminaire	CEC Default from NA8	According to §130.0(c)	Number Luminaires	Total Installed Watts in this area (H03 xH05)	Primary Function area in which these luminaires are installed	Pass	Fail
Α	DOWNLIGHT LED FIXTURE	14		✓	36	504	WAITING AREAS, DATA ROOM - HALLWAY CHECK IN CHECK OUT AREAS - RESTOOMS NURSE STATION, HALLWAYS	0	0
AA	DOWNLIGHT LED FIXTURE	23		✓	28	644	NURSE STATION, HALLWAYS OPEN OFFICE	0	0
A1,A2	DOWNLIGHT LED FIXTURE	34			7	238	BUILDING ENTRY, ADA RAMP	0	0
В	2X2 LED FIXTURE	44			11	484	EXAM ROOMS 116, 118 OFFICES 115 & 117 LOUNGE 110 & SOILED LINEN 114	0	0
BB	2X2 LED FIXTURE	50		✓	10	500	EXAM ROOMS 105-108 LAB 104	0	0
Ε	MIRROR-LUX	18		✓	2	36	RESTROOMS	0	0
J	EXTERIOR FIXTURE	24			9	216	BUILDING PREMITER	0	0
K	WALL SCONCE	50			1	50	BUILDING ENTRY	0	0
L	RECESSED LED DOWNLIGHT	14			6	84	RECEPTION/CHECK IN	0	0
		INS	STALLED W	ATTS PAG	E TOTAL:	2756	Enter sum total of all pages into NRCC-LTI-01-E; Page 2		

	-LTI-01-E (Revi:	NACHARI SINO IN		CALIFO	RNIA ENERGY COMMISSION
T LA TIME	CATE OF CO	VIPLIANCE			NRCC-LTI-01-E
ndoor L roiect Na	ame: LENNO)	CLINIC		Date Prepared: 10/02/18	(Page 2 of 6)
E.T	LEITITO	COLINIO		10,02,10	
C. Sum	mary of Al	lowed Lighting Power			2
Conditio	oned and Ur	conditioned space Lighting must not be combined for	compliance		
		Indoor Lighting Power for Conditioned Spaces		ার্থoor Lighting Power for Uncon	ditioned Spaces
			Watts		Watts
01		Installed Lighting NRCC-LTI-01-E, Table H, page 5 +	1,597	Installed Lig NRCC-LTI-01-E, Table Η, μ	-0.0° (20.00)
02		Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 +			
03		Minus Lighting Control Credits - NRCC-LTI-02-E, page 2		Minus Lighting Control C NRCC-LTI-02-E, p	
04		Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3)	1,597	Adjusted Installed Lighting F (row 1 minus r	
		Complies ONLY if Installed \leq Allowed (Box 04 < Box 05)		Complies ONLY if Installed ≤ Allowed (Bo	x 04 < Box 05)
05	50/35%k	Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 ations with replacement luminaires that have at least ower power compared to the original existing luminaires, tead use the allowed wattage from NRCC-LTI-06, page 2	2,214	Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 Alterations with replacement luminaires that have 50/35% lower power compared to the original existing may instead use the allowed wattage from NRCC-LTI-	luminaires,
		Required 240 lificates of Installation yes for all of the Certificates that will be submitted. (Re	etain copies an	d verify forms are completed and signed.)	2
YES	NO	Form/Title			
\Diamond		NRCI-LTI-01-E - Must be submitted for all buildings			☐ Field Inspector

NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary

NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for

overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.

NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a

conference room, a multipurpose room, or a theater to be recognized for compliance.

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.

Field Inspector

Field Inspector

Field Inspector

Field Inspector

April 2016

April 2016

CEC-NRCC-LTI-01-E (Revised 04/16)	CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-LTI-01-
Indoor Lighting	(Page 6 of
Project Name: LENNOX CLINIC	Date Prepared: 10/02/18
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
 I certify that this Certificate of Compliance documentation is accurate and 	d complete.
Documentation Author Name: VLADIMIR TSIDULKO	Documentation Author Signature:
Company: V&M ELECTRICAL ENGINEERING INC.	Signature Date: 10/02/18
Address: 3330 BARHAM BLVD. SUITE #204	CEA Certification Identification (if app <u>licable</u>):
City/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964
RESPONSIBLE PERSON'S DECLARATION STATEMENT	·
I certify the following under penalty of perjury, under the laws of the State of	
 certify the following under penalty of perjury, under the laws of the State of The information provided on this Certificate of Compliance is true and content and expensible under Division 3 of the Business and Professions Code to accompanie the energy features and performance specifications, materials, compone Compliance conform to the requirements of Title 24, Part 1 and Part 6 of The building design features or system design features identified on this documents, worksheets, calculations, plans and specifications submitted I will ensure that a completed signed copy of this Certificate of Compliant enforcement agency for all applicable inspections. I understand that a compliant provides to the building owner at occupancy. 	cept responsibility for the building design or system design identified on this Certificate of Compliance ents, and manufactured devices for the building design or system design identified on this Certificate of f the California Code of Regulations. Certificate of Compliance are consistent with the information provided on other applicable compliance d to the enforcement agency for approval with this building permit application. Indee shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation the
 I certify the following under penalty of perjury, under the laws of the State of The information provided on this Certificate of Compliance is true and control of the Business and Professions Code to accompliance designer). The energy features and performance specifications, materials, composed Compliance conform to the requirements of Title 24, Part 1 and Part 6 of The building design features or system design features identified on this documents, worksheets, calculations, plans and specifications submitted I will ensure that a completed signed copy of this Certificate of Compliant enforcement agency for all applicable inspections. I understand that a cobuilder provides to the building owner at occupancy. 	cept responsibility for the building design or system design identified on this Certificate of Compliance ents, and manufactured devices for the building design or system design identified on this Certificate of the California Code of Regulations. Certificate of Compliance are consistent with the information provided on other applicable compliance do to the enforcement agency for approval with this building permit application. Indee shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation the
 I certify the following under penalty of perjury, under the laws of the State of 1. The information provided on this Certificate of Compliance is true and contained and expensible under Division 3 of the Business and Professions Code to accompanie (responsible designer). The energy features and performance specifications, materials, compone Compliance conform to the requirements of Title 24, Part 1 and Part 6 of 1. The building design features or system design features identified on this documents, worksheets, calculations, plans and specifications submitted 5. I will ensure that a completed signed copy of this Certificate of Compliant enforcement agency for all applicable inspections. I understand that a compliance provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO	cept responsibility for the building design or system design identified on this Certificate of Compliance ents, and manufactured devices for the building design or system design identified on this Certificate of fithe California Code of Regulations. Certificate of Compliance are consistent with the information provided on other applicable compliance of to the enforcement agency for approval with this building permit application. Indee shall be made available with the building permit(s) issued for the building, and made available to the completed signed copy of this Certificate of Compliance is required to be included with the documentation the



integrated design construction management sustainability



TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.

KG VI

TITLE 24 CALCULATIONS (INDOOR)

V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

		COMPLIANCE NRCC-LTI-02-E
	AVV2 ASSOC	- Lighting Controls (Page 1 of 3)
roject Na m	E LENN	OX CLINIC Date Prepared: 12/03/18
	58	
. Mai	ndator	y Lighting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.)
YES	NO	Control Requirements
0	Ø	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 Section 110.9.
0	0	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 Section 130.4(b).
0	Ø	One or more Track Lighting Integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with §110.9 and §130.0. Additionally, an Installation Certificate shall be submitted in accordance with Section 130.4(b).
0	Ø	A Track Lighting Supplementary Overcurrent Protection Panel shall be installed in accordance with Section 110.9 and Section 130.0. Additionally, an Installation Certificate shall be installed in accordance with Section 130.4(b).
0	0	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 Section 130.1.
Ø	0	All luminaires shall be functionally controlled with manual ON and OFF lighting controls in accordance with Section 130.1(a).
0	\otimes	General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4.
0	0	The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the multi-level lighting control requirements in accordance with Section 130.1(b).
Ø	0	All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c).
0	Ø	Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans.
0	Ø	Lighting power in buildings larger than 10,000 square feet shall be capable of being automatically reduced in response to a Demand Responsive Signal in accordance with Section 130.1(e).
0	0	Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF controls, and demand responsive controls.

CERTIFICATE OF COMPLIANCE													NRC	CC-LTI	-02
ndoor Lighting - Lighting Cont	rols							-		N.			(P	age 2	of 3
roject Name: LENNOX CLINIC									Date Prepare	12/03/	18				
	st be filled out for Conditioned		ncondit	ioned	Space	es. Thi	is pag	e is u	sed on	ly for the	follov	ving:			
CONDITIONED SPACE	S UNCONDITIONED:	SPACES													
						1000 1000 0000	10 - 1 000 E								_
B. Mandatory and Preso	criptive Indoor Lighting Contro	ol Sched	ule, PA	F Calc	ulatio	n, an	d Field	d Insp	ection		2.9			1	
										PAF Cred	it Calcu	lation "	√ i T		I
						- 2		. 1		ς S			if Acceptance Test Required		Field Inspector
						Comply				War ontr		(E) C (S)	cep t Req	15	ngpi
To the Late	and Comment Called dustra			(* all		xempte		тріу		Watts of Controlled Lighting	PAF	Control Credit (11 x 12)	ancı Jirec		otto
O1	ng Control Schedule 02	03	04	05	06	07	08	09	10	11	12	13	14	_	¬ 15
	Type/ Description of Lighting	03		0.5	00	u,	- 00	05	10		12	13			Γ
	Control (i.e.: occupancy sensor,	#	<u>§</u> 1	§1	\$	8	<u>§1</u>	§1	8						
Location in Building	automatic time switch,	of	§130.1(a	§130.0(b)	§130.1(c)	§130.1(d)	§130.1(e)	§140.6(a)2	§140.6(d)					Pass	
4.01 (27) (27-4-74) (27-2-30) (1.04) (27-0-74) (27-0-74) (27-0-74)	dimmer, automatic daylight,	Units	1(a)	D(b)	1(c)	1(d)	1(e)	(a) 2	6(d)					CO.	
	etc)		1,2000	KONTRONICA CO	50.000	58045	3.025	"							
OFFICES, EXAM ROOMS, NURSE,	OCCUPANCY SENSOR/DIMMERS	10		√	V							0		0	(
WAIT AREA, LOUNGE,LAB,												0		0	(
												0		0	(
												0		0	(
			12							1.0	1).	0		0	(
			5	3				- 8			5	0		0	(
			G.		Co	ntrol Cr	edit PA	GE TO	TAL (Su	m of Columi	n 131:	U	0		0
	IF MULTIPLE PAGES ARE USED, EN	ITER SUM	TOTAL	DF Con	1904111		ALMER AND THE PROPERTY OF		Part of the Part of the Part of	TANKER HER TRANSPORTS CHEMICA	0.101.13130-1-		U		_
				30 000000							44.197.79.54	Enter Co	nt rol Cre	edit to	ta
												into NRC	C-LTI-01	-Е; Ра	age
												1.			
§130.1(a) = Manual area co	ntrols; §130.0(b) = Multi Level; §130	.1(c) = Aut	to Shut-C	Off; §1.	30.1(d)	= Man	datory	Daylig	ht; §13	0.1(e) = Den	nand R	esponsive,	§140.6	(d) =	
	talled to earn a PAF; §140.6(d) = Pre							CEMP D#FFC	00000.40 00 00 00 00 01.4		DAE				
. Cneck Table 140.6-A for corr lso required to be filled out, si	rect Factor. PAFs shall not be traded ianed, and submitted	petween (conditio	nea and	a uncor	aitione	a spac	es. As	a condi	ion to earn	a PAF,	an installe	ition Cer	ијісат	eı
so required to be jined out, si	gray and businible.														—

NRCC-LTI-C
(Page 3 o
Date Prepared: 12/03/18
nplete.
Documentation Author Signature:
Signature Date: 12/03/18
CEA Certification Identification (if applicable):
Phone: 1-323-851-9964
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ornia: : esponsibility for the building design or system design identified on this Certificate of Compliance
esponsibility for the building design or system design identified on this Certificate of Compliance and manufactured devices for the building design or system design identified on this Certificate of California Code of Regulations. Ficate of Compliance are consistent with the information provided on other applicable compliance are enforcement agency for approval with this building permit application. all be made available with the building permit(s) issued for the building, and made available to the
esponsibility for the building design or system design identified on this Certificate of Compliance and manufactured devices for the building design or system design identified on this Certificate of California Code of Regulations. Ficate of Compliance are consistent with the information provided on other applicable compliance are enforcement agency for approval with this building permit application. Finall be made available with the building permit(s) issued for the building, and made available to the ted signed copy of this Certificate of Compliance is required to be included with the documentation the
esponsibility for the building design or system design identified on this Certificate of Compliance and manufactured devices for the building design or system design identified on this Certificate of California Code of Regulations. Ficate of Compliance are consistent with the information provided on other applicable compliance are enforcement agency for approval with this building permit application. Finall be made available with the building permit(s) issued for the building, and made available to the ted signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CEC-NRCC-LTI-03-E (Revised 04/16)				CALIFORNIA EN	ERGY (COMMISSION
CERTIFICATE OF COMPLIANCE						NRCC-LTI-03-
Certificate of Compliance - Indoor Lighting Power Allowance Project Name: LENNOX CLINIC		Date Pr	enared:	10 /07 /10		(Page 1 of 4
LENNOX CLINIC		il contrain		12/03/18		
A separate page must be filed out for Conditioned and Unconditioned Spaces. This page is only CONDITIONED spaces UNCONDITIONED spaces	y for:					
A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES						
If using Complete Building Method for compliance, use only the total in column (a) as total all If using Area Category Method, Tailored Method, or a combination of Area Category and Tailo			, use	only the total in colu	ımn (b	o) as the total
allowed building watts				T 45		4.3
01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below	v on this nage	1		(a) 0	- 2	(b)
02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC+TI-03-E (below of	Q2 5038	1		U		
03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E	,				H	
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-	01, Page 2, R	ow 1		0		0
☐ Check here if building contains both conditioned and unconditioned areas.				2 M175		2000
B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE						
01		02		03		04
TYPE OF BUILDING (From §140.6 Table 140.6-B)		WATTS PER ft ²	х	COMPLETE BLDG. AREA	=	ALLOWED WATTS
	3.5					0
Total Marie English		Total Area		- 1-1		ω _γ
lotal Watts. Enter	lotal Watts	into section A,	row	1 (Above on this page	ej	0
C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES				2		Watts
			Total	from section C-2.		2,214
			Total	from section C-3.		
Total Watts. Enter Tota	Watts into s	ection A, row	2 (Ab	ove on this page).		2,214
For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0	.85). Enter th	is value into se	ction	A, row 2 if using this	optio	on.

RTIFICATE OF COMPLIANCE						NRCC-LTI-03-E
rtificate of Compliance - Indoor Lighting Power	Allowance					(Page 2 of 4)
et Name: LENNOX CLINIC			Date Prepared: 1	2/03/18		
25 10 10 10 10 10 10 10 10 10 10 10 10 10	ed and Unconditioned Spaces. This page is only for:					
CONDITIONED spaces U	NCONDITIONED spaces					
2 AREA CATEGORY METHOD GENERAL	LICHTING DOMER ALLOWANCE					
			CC LTLO1 F			
po not include portable lighting for offices. Port eparately list lighting for each primary function	able lighting for offices shall be documented only in Se	ection G of INF	(CC-LTI-U1-E.			
	01	02		03	П	04
75	n §140.6 Table 140.6-C)	WATT		03	+ +	ALLOWED
Location in Building	Primary Function Area per Table 140.6-C	PER ft	332	AREA (ft ²)	×=	WATTS
FICES	OFFICE AREA	1.0 1.2 0.6 0.9 0.95	1 10.00	327	-	327
AM/SOILED/LAB/PEDS VITALS	MEDICAL & CLINICAL CARE AREA		ä	668		801
ECK IN/OUT/CORRIDOR/RESTROOMS/HOUSE KEE.	CORRIDOR,RESTRMS, STAIRS, SUPPORT AREA		3.5	660	1	396
UNGE, /WAIT AREA				345	1 [310
BBY	LOBBY/MAIN			400		380
						0
] [0
			S)			0
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				0.745	┨┝	0
■ one is protocological and one in a Por	Account all control from the control of the control		TOTALS	2,715	٦,	0.011
Enter sum total /	Area Category allowed watts into section C-1 of N	IKCC-LTI-03-	E (this comp	oliance docume	ent)	2,214
						WATTS

ertificate of Compliance - Indoor Lighting Power Allowance oject Name: LENNOX CLINIC	{Page 4 of 4
oject Name: LENNOX CLINIC	
	Date Prepared: 12/03/18
OCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and co	mplete.
ocumentation Author Name: VLADIMIR TSIDULKO	Documentation Author Signature:
Ompany: V&M ELECTRICAL ENGINEERING INC.	Signature Date: 10/02/18
3330 BARHAM BLVD. SUITE #204	CEA Certification Identification (if applicable):
ty/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964
ESPONSIBLE PERSON'S DECLARATION STATEMENT	<u> </u>
	hall be made available with the building permit(s) issued for the building, and made available to the leted signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature:
	Date Signed 12/03/18
ompany:	
Todaless: 3330 BARHAM BLVD. SUITE #204	License: #E11834



integrated design construction management sustainability



TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
I FNNOX CA 90304

proj							
drawn by checked by proj	L\						
drawn by	KG						

April 2016

e remarks

TITLE-24 (INDOOR)

V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

E-4

CEC-NRCC-LTO-01-E (Revised 04/16) CERTIFICATE OF COMPLIANCE			CALIFO	ORNIA ENERGY (NRCC-LTO-0
Outdoor Lighting					(Page 1 c
Project Name: LENNOX CLINIC			Date Prepared:	12/03/18	(1 080 1 0
A. General Information					
Project Address: 10223 FIRI	MONA AVENUE, LENNOX	CALIF., 90304		uminated Hai 724 SQ. FT.	CO. 10 To Co. 10
Phase of Construction:	New Construction	☐ Addition	☑ Al	teration	
Outdoor Lighting Zone (LZ)	☐ LZ-1	☐ LZ-2	 LZ-3		LZ-4
I have confirmed with the AH.	l which LZ applies to this sit	e. For default lighting zone de	esignations, se	ee Title 24 Par	t 6, §10-114
B. Lighting Compliance Docur	nents (check box for each o	document included)			
For detailed instructions on the u	se of this and all Energy Efficie	ency Standards compliance docum	ents, refer to ti	he Nonresidenti	ial Manual
published by the California Energ	- Contrade value of the Contrade value of th				
✓ NRCC-LTO-01-E	Certificate of Complia				
MRCC-LTO-02-E	\$500 STAG	trols Certificate of Compliance	#4U24-25C		
	251 750	er Allowance Certificate of Compl			
■ NRCC-LTO-04-E	Outdoor Lighting Exis	ting Conditions Certificate of Com	pliance		
[6 6			T T	157-11	
C. Summary of Allowed Outd		ge from NRCC-LTO-03-E, page	4	Watt 1,01	205
SOUTH AND ALCOHOLOGY OF THE SOUTH SO	owed wattage from NRCC-		* (P)(-1)7-		
	Technolites works in this ■ detention as commands it and all references at the ex-	nstalled (Box 02) ≤ Allowed (B	1	04.0	
02 Sum Total INSTALL	ED Outdoor Lighting Watta	ge from NRCC-LTO-01-E, page	3.	216	
D. Declaration of Required In	stallation Cortificatos				
		mitted. (Retain copies and verify o	compliance doc	uments are cor	mpleted and
☐ NRCI-LTO-01-E - Must be subm	nitted for all buildings			☐ Field Inspe	ector
NRCI-LTO-02-E - Must be subm	nitted for a lighting control sys	tem, or for an Energy Managemer	nt Control	V(5)	
System (EMCS), to be recognized		,		☐ Field Inspe	ector
y.					
E. Declaration of Required Co	ertificates of Acceptance				
	rtificates of Acceptance that w	ill be submitted. (Retain copies ar	nd verify compl	iance documer	its are complet
and signed.) NRCA-LTO-02-A - Must be subr	mitted for outdoor lighting cor	ntrols		Field Inspe	ctor
MINES ETO 02 A THUSE DE SUDI	mitted for outdoor lighting cor	RIOIS		T Ticid iliape	ctor
F. Schedule of Luminaires Exe	empt from the Outdoor Lig	hting Power Requirements in	§140.7		
01		02	3		
Name or Symbol	Description	n of exempt luminaire in accor	dance with th	ne exemptions	S
e com como atrico de entre en contre 🕷 el especial de la elegación de la eleg	*200000 \$2000 100 ■ 600 0 7 0	namentalisen kan kenemaan 14. 1832 — set menetat 14. Protest og pål at 1936 i 1936 i 1936 i 1936 i 1936 i 1936			~

Outdoor Lighting 12/03/18 (Page 2 of 4) Page Report G. Schedule of Luminaires Exempt from the Cutoff Requirements in \$130.2(b) 01 02 Name or Symbol Description of exempt luminaire in accordance with the exemptions NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in \$130.2(c) 01 02 Name or Symbol NONE Description of exempt luminaire in accordance with the exemptions	CERTIFICATE OF COMPLIA	/16) . NCE		CALIFORNIA ENERGY (NRCC-LTO-01-E
G. Schedule of Luminaires Exempt from the Cutoff Requirements in §130.2(b) O1 O2 Name or Symbol Description of exempt luminaire in accordance with the exemptions NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) O1 O2	Outdoor Lighting			12/03/18	(Page 2 of 4)
Name or Symbol Description of exempt luminaire in accordance with the exemptions NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) 01 02 B. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)	Charles and Park White Holes of Personal)		Total and the second se	
Name or Symbol Description of exempt luminaire in accordance with the exemptions NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) 01 02 B. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c)			d - C # D ! ! - 5120 2(L)		6
Name or Symbol Description of exempt luminaire in accordance with the exemptions NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) 01 02		s Exempt πom			
NONE H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) 01 02	RECEN		EXPERT	ordance with the exemptions	2
H. Schedule of Luminaires Exempt from the Outdoor Lighting Control Requirements in §130.2(c) 01 02	name of Symbol	NONE	bescription of exempt lammane in acc	- E	
01 02		1,01,12			8
01 02					
01 02		g			
01 02	1. Schedule of Luminaire	s Exempt from	the Outdoor Lighting Control Requirements	s in §130.2(c)	
Name or Symbol NONE Description of exempt luminaire in accordance with the exemptions			2.85m2 V.00m2 V.0.04		
	Name or Symbol	NONE	Description of exempt luminaire in acc	ordance with the exemptions	
		3			

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

	COMPLIANCE								7.0	C-LTO-0
door Lightin	g						12/03/18		(1	Page 3 o
t Name: LENN	OX CLINIC						Date Prepared:			
		50.0								
I. Outdoor I	Lighting Schedule and Field Inspection Energ	y Checklist					250	45.		
			85	5 H 1555	200		9 9		450.00	ield
	Luminaire Schedule	0.2	5,000	stalled Wa	3000	0.5	Location	Cutoff	415 N/35 (0.75	ector
01	02	03	04		05	06	07	08	'	09
			How wat							
■4 00-400-400-400-400-400-400-400-400-400			detern			ed s are	Primary Function area in		1000	
Name or Item Tag	Complete Luminaire Description	_ e	± ∞	According to §130.0(c)	Number of Luminaires	Total Installed Watts in this area (03 x 05)	which the se luminaires are installed	BUG Rating	Pass	퍨
item rag		Watts per Luminaire	Defa NA8	rding 1.0(c)	inai	al Ing ts in x 05	(Outdoor Lighting Zone)		_	
		Wat	CEC Default from NA8	Accc \$130		Tota Wat (03.)	(**************************************			
			788 S			. 33 37 575		UH:		
								UL:	1	
			40000	4840000			WALK WAYS ZONE #3	FVH:	- X.	26560
J	SEE LIGHTING FIXTURE SCHEDULE SHEET E-1	24		✓	9	2016	Ü Ü	BVH:	-	
	SCHEDULE SHEEL E-1							FH:	<u>17</u>	
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	<u> </u>		ļ	2			Enter sum total of all pages (S u			
		INST	TALLED WA	ATTS PAG	E TOTAL:	0	INSTALLED Outdoor lighting wa			
		353,573					NRCC-LTO-01-E; Page 1	O 70		

TIFICATE OF COMPLIANCE	CALIFORNIA ENERGY COMMISS NRCC-
loor Lighting	(Pa
LENNOX CLINIC	Date Prepared: 12/03/18
COST "/JENTATION AUTHOR'S DECLARATION STATEMENT	
tation Author Name:	
VLADIMIR ISIDULKO	Documentation Author Sign ature:
V&M ELECTRICAL ENGINEERING INC.	Signature Date: 12/03/18
ddress: 3330 BARHAM BLVD. SUITE #204	CEA Certification Identification (if applicable):
ity/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964
RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the St	
4. The building design features or system design features identified o	art 6 of the California Code of Regulations. On this Certificate of Compliance are consistent with the information provided on other applicable compliance mitted to the enforcement agency for approval with this building permit application.
 The building design features or system design features identified of documents, worksheets, calculations, plans and specifications sub I will ensure that a completed signed copy of this Certificate of Corenforcement agency for all applicable inspections. I understand the builder provides to the building owner at occupancy. 	on this Certificate of Compliance are consistent with the information provided on other applicable compliance mitted to the enforcement agency for approval with this building permit application. Impliance shall be made available with the building permit(s) issued for the building, and made available to the last a completed signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature:
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April 2016



integrated design construction management sustainability



TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.

pro								
checked by pro		 -						
drawn by		KG KG						
remarks								
	ı							

V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

E-5

TITLE 24 CALCULATIONS
TITLE 24 CALCULATIONS

ERTIFICATE OF COMPLIANCE	NRCC-LTO-02-
outdoor Lighting Controls	(Page 1 of
oject Name: LENNOX CLINIC	Date Prepared: 12/03/18
. Mandatory Outdoor Lighting Control Declaration Statements	
heck all that apply:	
Lighting shall be controlled by self-contained lighting control devices which are certife Regulations in accordance with §110.9(a):	ied to the Energy Commission according to the Title 20 Appliance Efficiency
Lighting shall be controlled by a lighting control system system system are energy management control in accordance with §130.4(b).	ol system in accordance with §110.9. An Installation Certificate shall be submitted
All lighting controls and equipment shall comply with the applicable requirements in accordance with §130.0(d).	§110.9 and shall be installed in accordance with the manufacturer's instructions in
Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the re	equirements in Section 110.9(b)5.
All outdoor incandescent luminaires rated over 100 watts, determined in accordance	100mm (100mm (
All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determ Uplight and Glare requirements in accordance with Section 130.2(b)	ined in accordance with Section 130.0(c), shall comply with
All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomia, in accordance with Section 130.2(c)1.	omical time-switch control, or other control capable of automatically switching OFI
All installed outdoor lighting shall be circuited and independently controlled from otless, accordance with Section 130.2(c)2.	5
All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet controls in accordance with Section 130.2(c)3.	or less above the ground, shall be controlled with automatic lighting
For Outdoor Sales Frontage, an automatic lighting control shall be installed in accord	
For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatBefore an occupancy permit is granted for the newly constructed building or for the	TO BE SET THE SET OF THE PARTY AND ADDRESS OF THE SET OF THE PARTY AND ADDRESS OF THE PARTY AND
shall be certified as meeting the Acceptance Requirements for Code Compliance in a applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix	

CERTIFICATE OF COMPLIANCE									NF	CC-LTC	0-02-E
Outdoor Lighting Controls										(Page 2	of 3)
Project Name: LENNOX CLINIC					Date Pr	^{epare d:} 12/	03/18				
B. Mandatory Outdoor Light	ting Control Schedule and Field Inspection	on Check	list								
Outdo	or Lighting Control Schedule				hat apply	omplying , or leave npted)			✓ if Acceptance Test Required	Held Hispactor	Gold Incorporation
01	02	03	04	05	06	07	08	09	10	1	1
Location and Application of Luminaires Being Controlled	Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time- switch control, automatic scheduling control, part-night outdoor lighting control)	# of Units	§130.2(a)	§130.2(c)1	§130.2(c)2	§130.2(c)3	§130.2(c)4	§130.2(c)5		Pass	Fail
	LIGHTING CONTROL	1								0	0
	-			· ·	·					0	0
										0	0
				71						0	0
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CERTIFICATE OF COMPLIANCE	
Outdoor Lighting Controls	
Project Name: LENNOX CLINIC	Date Prepare d: 12/03/18
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is	
Documentation Author Name: VLADIMIR TSIDULKO	Documentation Author Signature:
Company: V&M ELECTRICAL ENGINEERING INC.	Sign ature Date: 12/03/18
Address: 3330 BARHAM BLVD. SUITE #204	CEA Certification dentification (if applicable):
City/State/Zip: LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964
RESPONSIBLE PERSON'S DECLARATION STATEMENT	•
documents, worksheets, calculations, plansand specification	ons submitted to the enforcement agency for approval with this building permit application.
documents, worksheets, calculations, plans and specification 5. I will ensure that a completed signed copy of this Certificate	ons submitted to the enforcement agency for approval with this building permit application. e of Compliance shall be made available with the building permit(s) issued for the building, and made available tand that a completed signed copy of this Certificate of Compliance is required to be included with the document Responsible Designer Signature:
documents, work sheets, calculations, plans and specification I will ensure that a completed signed copy of this Certificate enforcement agency for all applicable inspections. Lunder stabuilder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO	ons submitted to the enforcement agency for approval with this building permit application. e of Compliance shall be made available with the building permit(s) issued for the building, and made available tand that a completed signed copy of this Certificate of Compliance is required to be included with the document of the segments
documents, worksheets, calculations, plans and specification 5. I will ensure that a completed signed copy of this Certificate enforcement agency for all applicable inspections. Lunderst builder provides to the building owner at occupancy.	ons submitted to the enforcement agency for approval with this building permit application. e of Compliance shall be made available with the building permit(s) issued for the building, and made available tand that a completed signed copy of this Certificate of Compliance is required to be included with the document of the Responsible Designer Signature:
documents, worksheets, calculations, plans and specification I will ensure that a completed signed copy of this Certificate enforcement agency for all applicable inspections. Lunder stabuilder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO Company: V&M ELECTRICAL ENGINEERING INC.	e of Compliance shall be made available with the building permit(s) issued for the building, and made available tand that a completed signed copy of this Certificate of Compliance is required to be included with the docume Responsible Designer Signature: Date Signed: 12/03/18
documents, worksheets, calculations, plans and specification I will ensure that a completed signed copy of this Certificate enforcement agency for all applicable inspections. Lunderst builder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO Company: V&M ELECTRICAL ENGINEERING INC. Address: 3330 BARHAM BLVD. SUITE #204	ons submitted to the enforcement agency for approval with this building permit application. e of Compliance shall be made available with the building permit(s) issued for the building, and made available tand that a completed signed copy of this Certificate of Compliance is required to be included with the document of the compliance is required to be included with the compliance is required to be include

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS

August 2016

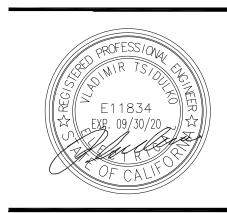
CERTIFICATE OF COMPLIA	ANCE								NRCC-LTO-
Outdoor Lighting Power	Allowances								(Page 1 c
Project Name: LENNOX CLIN	С					Date Prepared:	12/0	3/18	
A. OUTDOOR LIGHTI	NG POWER	ALLOWANCE S	UMMARY						
1. General Hardscape Lighti	ng Power Allowa	nce (Site Total from	Section B of NRCC-	-LTO-03-E)				1.	0 -
2. Additional Specific "use it determined in Section C-1 t			es listed in each of t	these cells shall be ident	ical to tota	l allowed watts			
PER APPLICATION	\neg	PER UNIT LENGTH	PE	R HARDSCAPE AREA	7 [PER SPECIFIC AREA	1		
from Section C-1		SALES FRONTAGE)	27.8/45.092505	NAMENTAL LIGHTING)		from Section C-4.			
0		from Section C-2		from Section C-3	+ -	0	-		0
3. Sum Total ALLOWED Out	3	\$500	. 13	U	- <u>+</u>	U	7.0	2. 3.	0
S. Sulli Total ALLOWED Gui	GOOT EIGHTING ***	Trage (add 104/3 1	mu z _j					, s.	0.
B. GENERAL HARDSC	A DE LIGHTINI	C DOWED ALL	OWANGE EDOL	A TA DI C 1 40 7 A					
B. GENERAL HARDSC	APE LIGHTIN	G POWER ALL	JWANCE FROM	VI TABLE 140.7-A			11	· · · · · · · · · · · · · · · · · · ·	1
А	rea Wattage Allo			Linear W	attage Allo	owance (LWA)	5028	nitial Wattage Iowance (IWA)	Total General Hards Lighting Allowan
01	02	03	04	05	06	07	Ш	80	09
Name of Area	Illumina Hardscape	9000 000 000 000 000 000 000 000 000 00	I AWA (BO2 x BC	Perimeter Length of General Hardscape	LPA pe Linear Fo	25		IWA (Watts)	B04 + B07 + B08
ZONE #1	154 Sq.	Ft. 0.09	14	72	0.6	44	1	770	828
ZONE #2	88 Sq. I		8)	45	0.6	5)			58
	197 Sq.		18	73	0.6	44			62
ZONE #3	285 Sq.	Ft. 0.09	26	73	0.6		↓		70
ZONE #3 ZONE #4		1 1	0	_			 		0
		-					⇃⇂		0
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

CERTIFICATE OF COMPLIANCE	NRCC-LTC
Outdoor Lighting Power Allowances	(Page 4
Project Name: LENNOX CLINIC	Date Prepared: 12/03/18
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate	e and complete.
Documentation Author Name: VLADIMIR TSIDULKO	Documentation Author Signature:
Company: V&M ELECTRICAL ENGINEERING INC.	Signature Date: 12/03/18 —
Address: 3330 BARHAM BLVD. SUITE #204	CEA Certification Identification (if applicable):
City/State/Zip: " LOS ANGELES CALIF., 90068	Phone: 1-323-851-9964
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
Compliance conform to the requirements of Title 24, Part 1 and Part 4. The building design features or system design features identified on documents, worksheets, calculations, plans and specifications submit	this Certificate of Compliance are consistent with the information provided on other applicable compliance itted to the enforcement agency for approval with this building permit application.
Compliance conform to the requirements of Title 24, Part 1 and Part The building design features or system design features identified on a documents, worksheets, calculations, plans and specifications submit will ensure that a completed signed copy of this Certificate of Completed enforcement agency for all applicable inspections. I understand that builder provides to the building owner at occupancy.	6 of the California Code of Regulations. this Certificate of Compliance are consistent with the information provided on other applicable compliance
Compliance conform to the requirements of Title 24, Part 1 and Part The building design features or system design features identified on a documents, worksheets, calculations, plans and specifications submit I will ensure that a completed signed copy of this Certificate of Complete enforcement agency for all applicable inspections. I understand that builder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO	6 of the California Code of Regulations. this Certificate of Compliance are consistent with the information provided on other applicable compliance itted to the enforcement agency for approval with this building permit application. Diance shall be made available with the building permit(s) issued for the building, and made available to the a completed signed copy of this Certificate of Compliance is required to be included with the documentation the
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Compliance conform to the requirements of Title 24, Part 1 and Part 4. The building design features or system design features identified on documents, worksheets, calculations, plans and specifications submit 5. I will ensure that a completed signed copy of this Certificate of Completed enforcement agency for all applicable inspections. I understand that builder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO Company: W&M ELECTRICAL ENGINEERING INC.	6 of the California Code of Regulations. this Certificate of Compliance are consistent with the information provided on other applicable compliance itted to the enforcement agency for approval with this building permit application. Diance shall be made available with the building permit(s) issued for the building, and made available to the a completed signed copy of this Certificate of Compliance is required to be included with the documentation Responsible Designer Signature: Date Signed: 12/03/18 License:
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Compliance conform to the requirements of Title 24, Part 1 and Part 4. The building design features or system design features identified on a documents, worksheets, calculations, plans and specifications submit 5. I will ensure that a completed signed copy of this Certificate of Complete enforcement agency for all applicable inspections. I understand that builder provides to the building owner at occupancy. Responsible Designer Name: VLADIMIR TSIDULKO Company: V&M ELECTRICAL ENGINEERING INC. Address: 3330 BARHAM BLVD. SUITE #204 Gitv/State/Zio:	6 of the California Code of Regulations. this Certificate of Compliance are consistent with the information provided on other applicable compliance itted to the enforcement agency for approval with this building permit application. bliance shall be made available with the building permit(s) issued for the building, and made available to the a completed signed copy of this Certificate of Compliance is required to be included with the documentation the Responsible Designer Signature: Date Signed: 12/03/18 License: #E11834
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construction management sustainability



TITLE 24 CALCULATIONS (OUTDOOR)

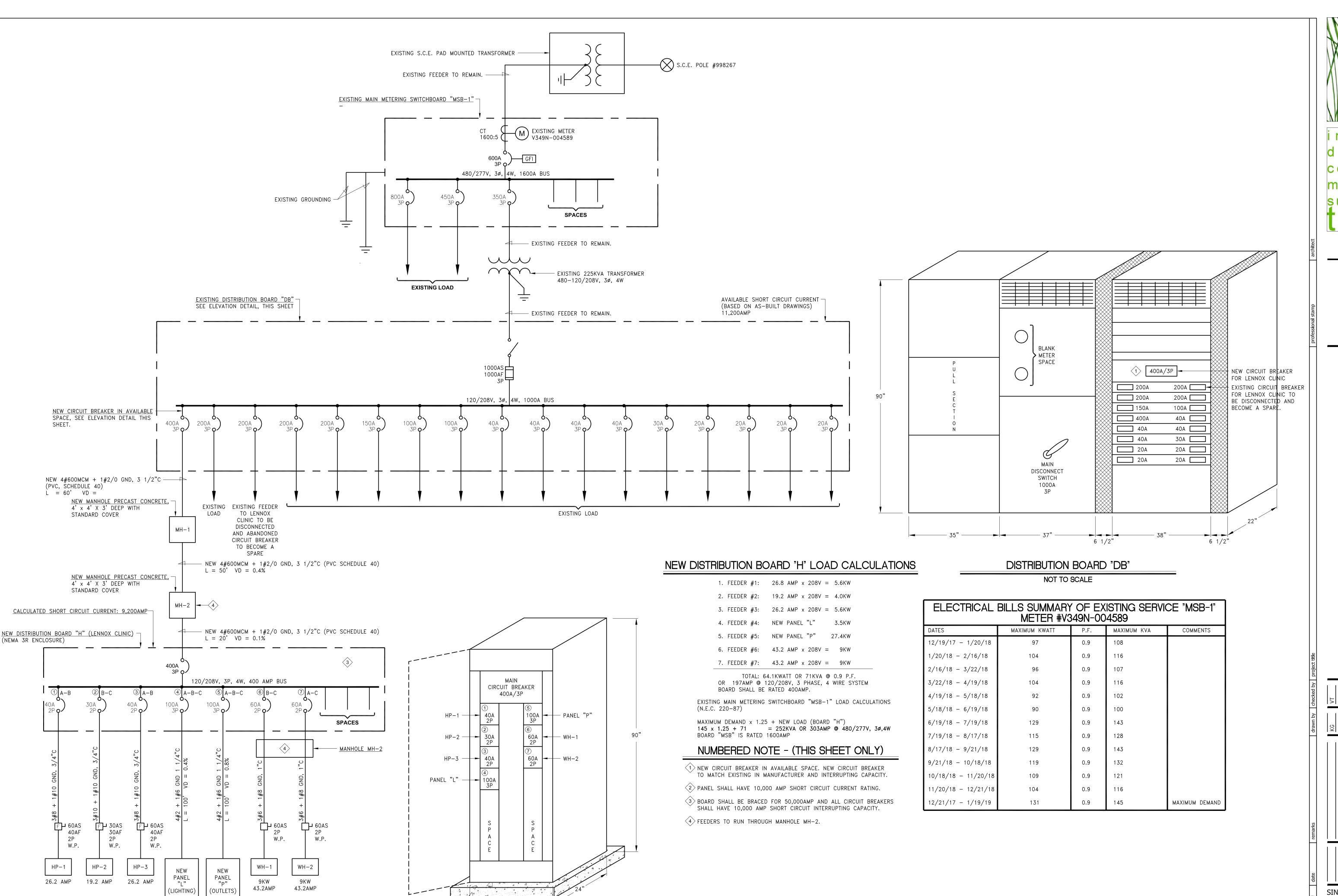
V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com



NEW DISTRIBUTION BOARD "H"

ELEVATION DETAIL

(NEMA 3R ENCLOSURE)

NOT TO SCALE

(2)

SINGLE LINE DIAGRAM

NOT TO SCALE

V & M ELECTRICAL ENGINEERING, INC.

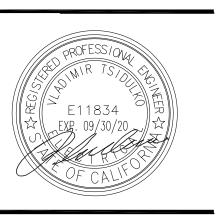
3330 Barham Boulevard, Suite 204

Los Angeles, CA 90068

(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

integrated design construction management sustainability



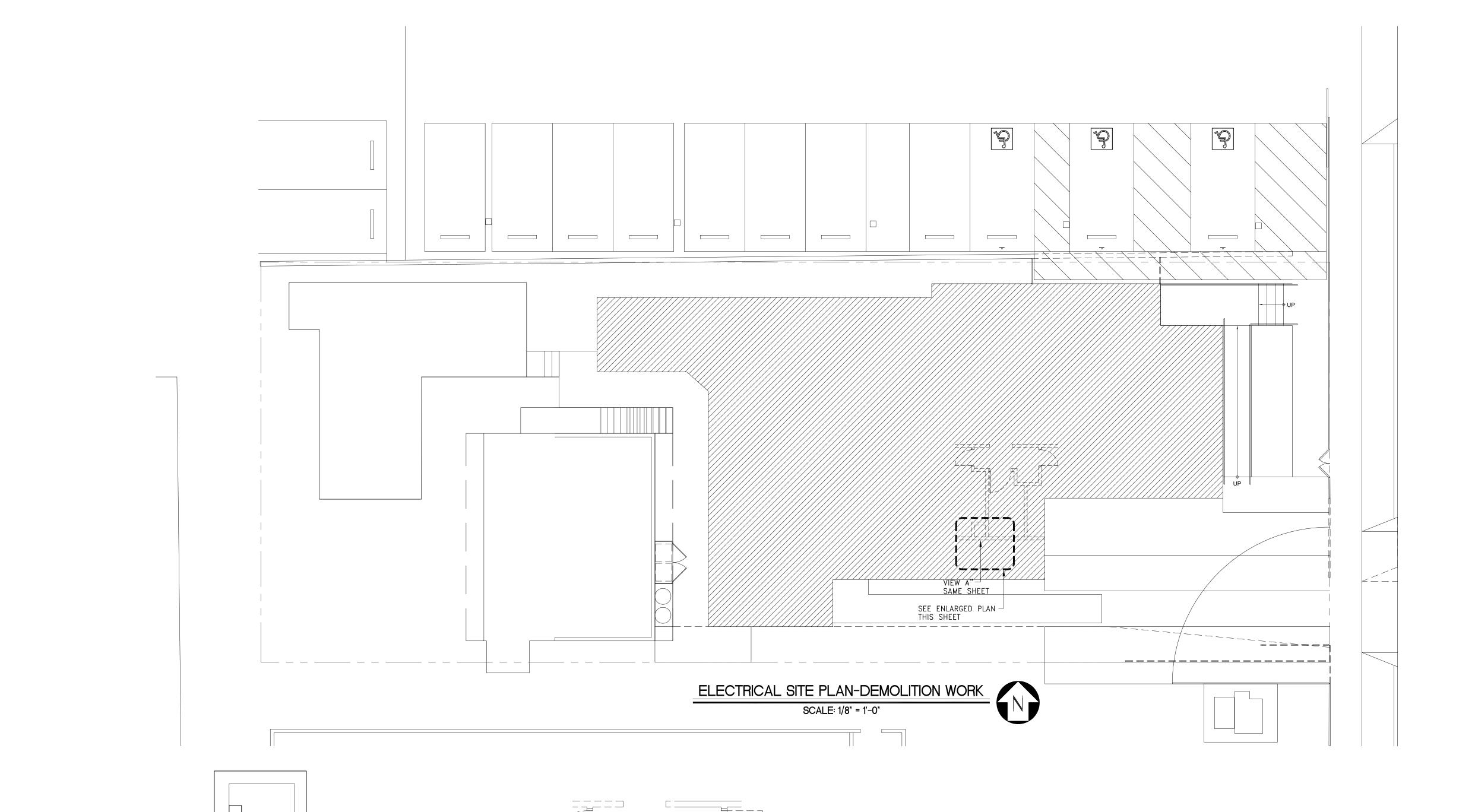
TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

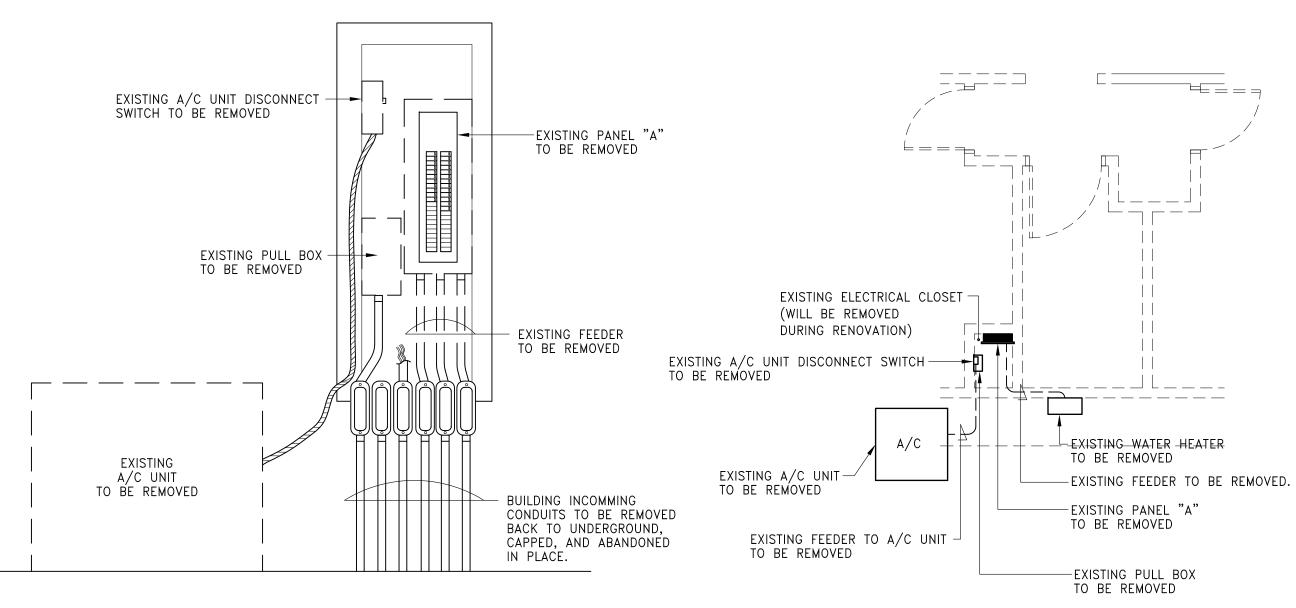
 KG
 VI

 MG
 VI

SINGLE LINE DIAGRAM

E-7





VIEW "A" - DEMOLITION WORK

SCALE: N.T.S.

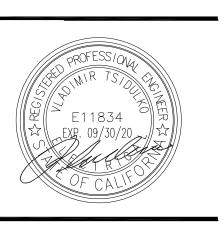
EXISTING ENLARGED ELECTRICAL CLOSET DEMO PLAN

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





integrated design construction management sustainability



TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

 KG

 KI

 KI

ELECTRICAL SITE PLAN
DEMOLITION

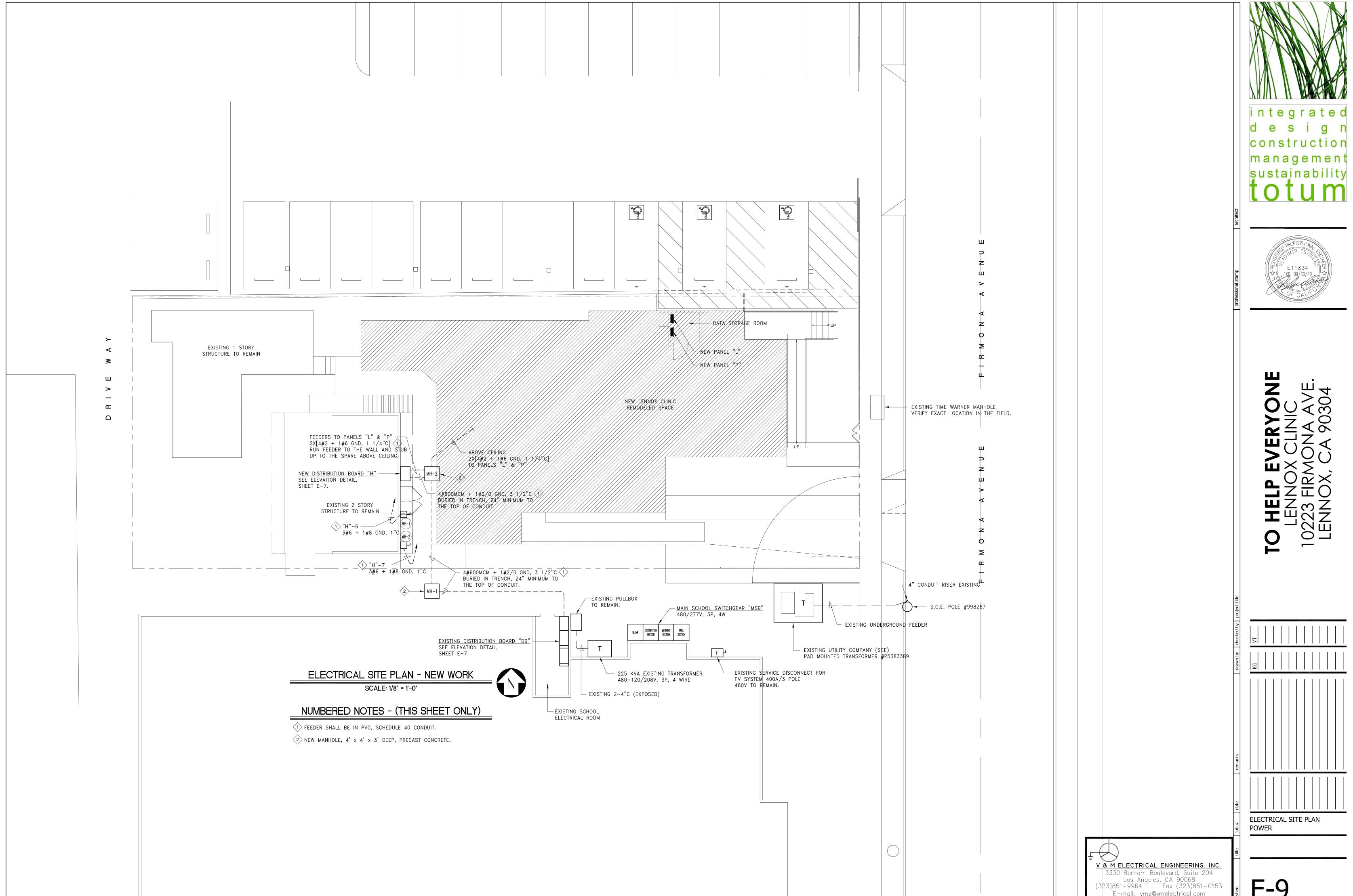
V & M ELECTRICAL ENGINEERING, INC.

3330 Barham Boulevard, Suite 204

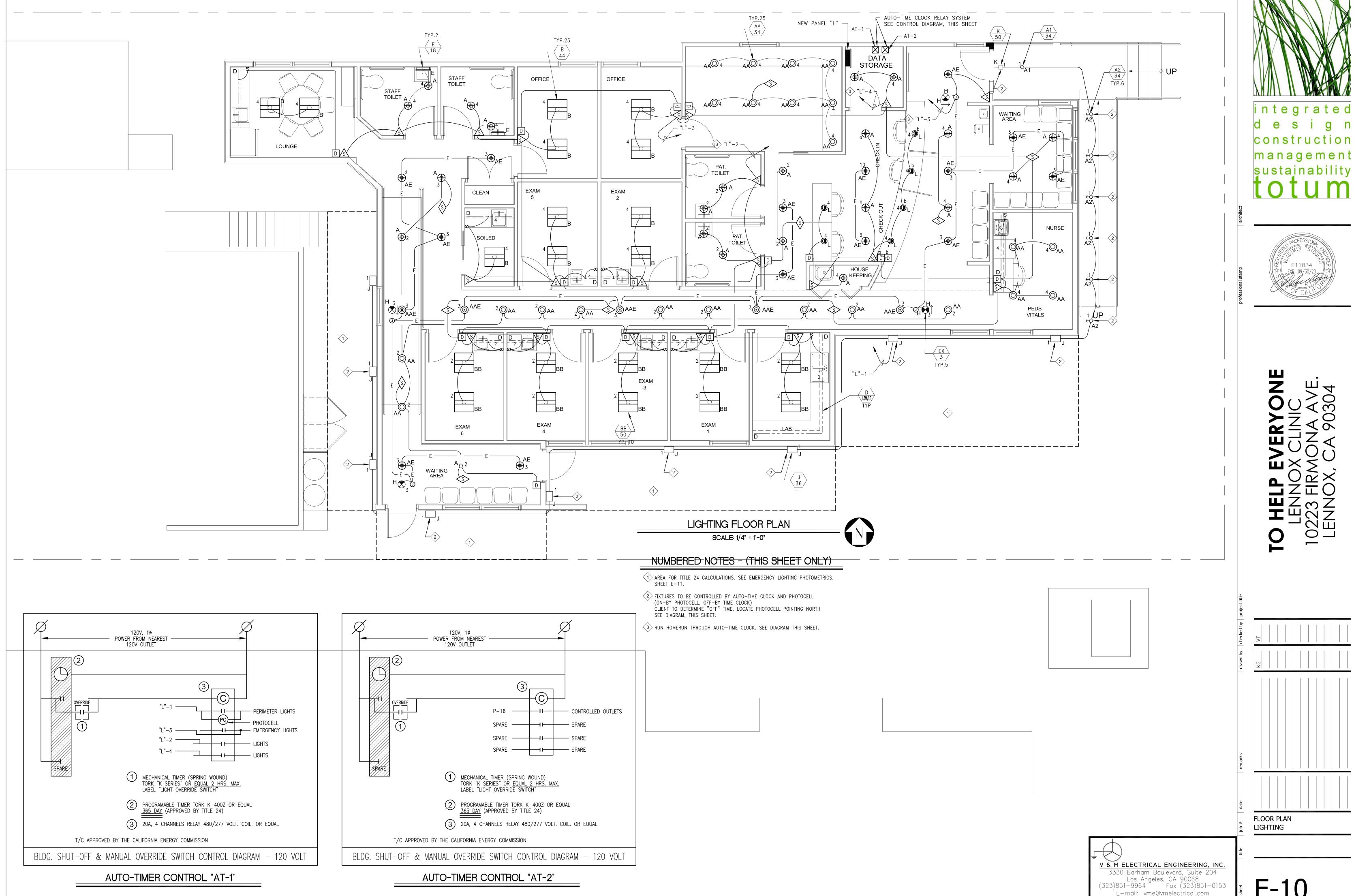
Los Angeles, CA 90068

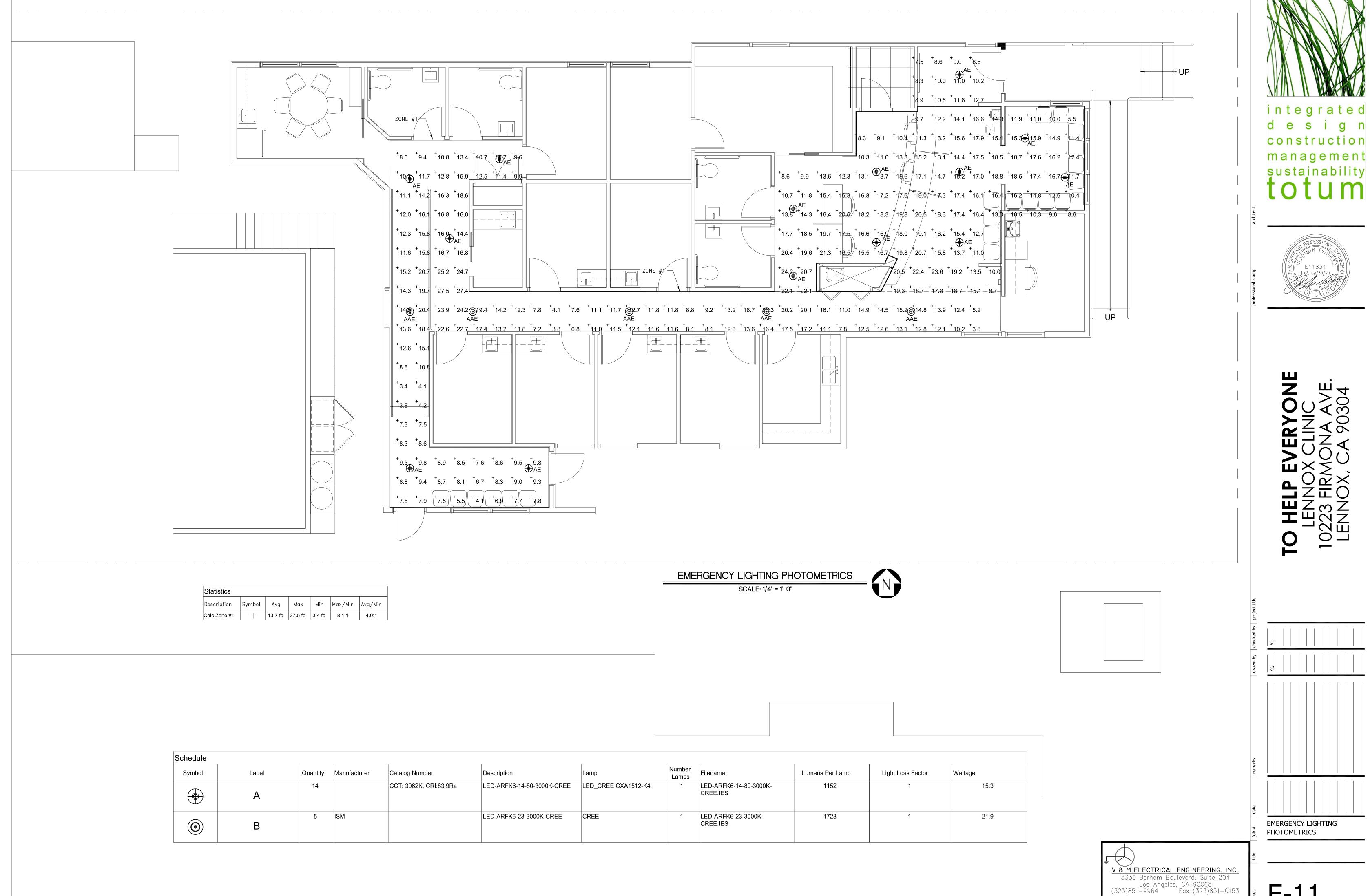
(323)851-9964 Fax (323)851-0153

E-mail: vme@vmelectrical.com

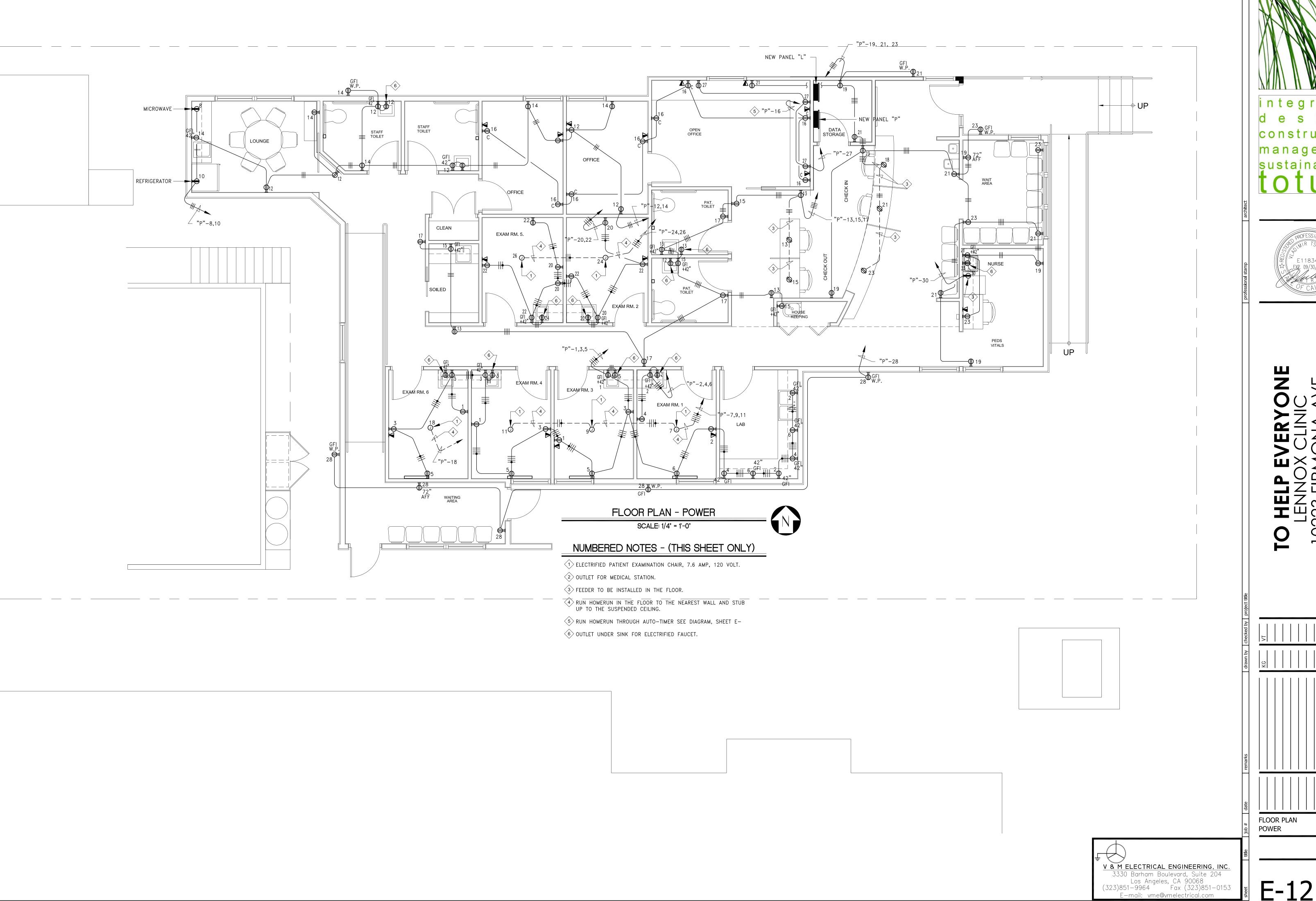






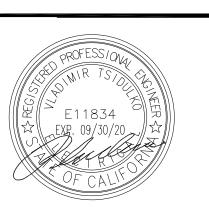


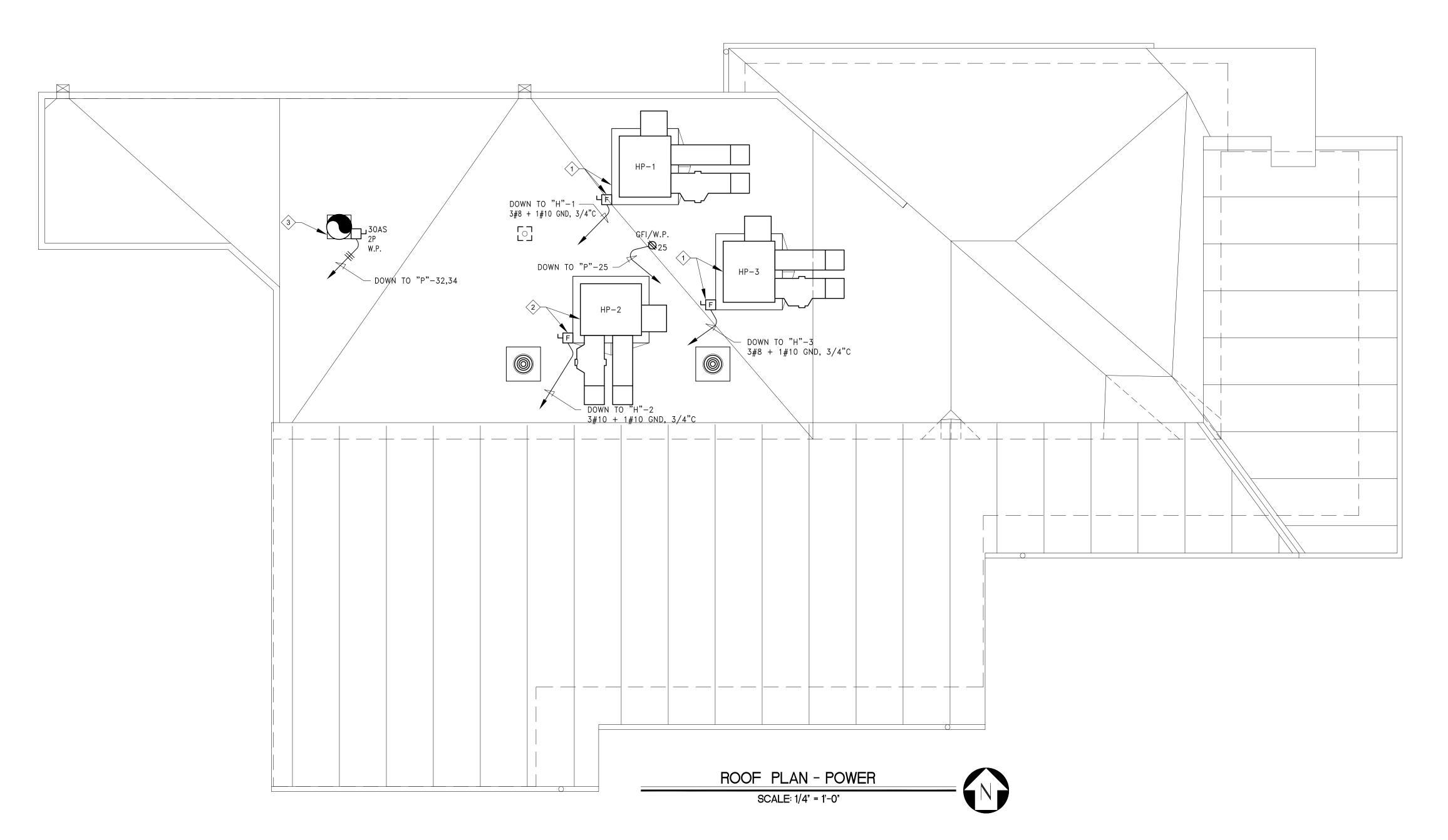
E-mail: vme@vmelectrical.com





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NUMBERED NOTES - (THIS SHEET ONLY)

- HEAT PUMP HP-1 & HP-3.
 208V, 1 PHASE, 26.2 AMP. PROVIDE 60AS, 40AF, 2P W.P.
 SAFETY DISCONNECT SWITCH RUN 1/2" C.O. TO RESPECTIVE THERMOSTATS.
- 2 HEAT PUMP HP-2. 208V, 1 PHASE, 19.2 AMP. PROVIDE 30AS, 30AF, 2P W.P. SAFETY DISCONNECT SWITCH RUN 1/2" C.O. TO RESPECTIVE THERMOSTATS.
- 3 EXHAUST FAN, 208V, 1 PHASE, 1/4HP
 PROVIDE SAFETY DISCONNECT SWITCH 30AS, 2 POLE, W.P. VERIFY IF MOTOR STARTER AND CONTROLS ARE PROVIDED BY THE MANUFACTURER AND MAKE ALL NECESSARY CONNECTIONS TO HAVE FANS OPERABLE.



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ROOF PLAN POWER

V & M ELECTRICAL ENGINEERING, INC. 3330 Barham Boulevard, Suite 204 Los Angeles, CA 90068 (323)851—9964 Fax (323)851—0153

MANDATORY MEASURES

Hot Water Piping Insulation

Hot water piping shall be insulated per Title-24 requirements for non-residential applications, (Section 120.3 and Table 120.3-A).

Service hot water piping (105°F - 140°F) shall be insulated with minimum R-4.5 with a minimum rating temperature of 150°F. Insulation thickness shall be minimum 1.0" thick on pipes less than 1" in diameter and 1.5" thick on pipes between 1.0" and 1.5" in diameter.

Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind, including but not limited to, the following:

- Insulation exposed to weather shall be suitable for outdoor service by either being rated by the manufacturer for outdoor use or by being covered e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover.
- Cellular foam insulation shall be protected as above or painted with a coating that is water retardant and provides shielding from solar radiation that can cause degradation of the material.

Service hot water systems with recirculating pumps shall be provided with controls (a timer) that shall be capable of turning off the system.

An automatic air release valve shall be installed on the recirculation loop piping on the inlet side of the recirculating pump no more than 4 feet from the pump. This valve shall be mounted on a vertical riser at least 12" in length and accessible for maintenance and repair. Alternately, the pump shall be installed in a vertical section of the return line.

A check valve shall be installed between the circulating pump and the water heater to prevent water from flowing backward through the recirculation loop.

A hose bibb shall be installed between the pump and the water heater for system priming and bleeding air from the recirculating system.

Provide isolation valves on both sides of the pump for maintenance.

Water Conservation Ordinance Notes - (Form GRN 18N)

Section 5.303.1 Building is existing and TI is less than 50,000 sf.

Section 5.303.2 Projects having a CW supply of 2" or less may use the prescriptive method outlined in Section 5.303.2. See fixture specifications and related notes on this sheet

Section 5.304 There are no modifications to landscaping in this project

Section 5.305.4 This project uses existing condenser water piping.

Section 610.4.1 Connections length between a hot water supply fixture (faucet) and the hot water circulating system header shall not exceed 15 feet of 3/4"copper piping

(see sheet P-1.1).

Codes, Permits, Fees, Inspections, Rules and Regulations

The Installer shall comply with all requirements of City, County, State, and Federal codes ordinances, and regulations. The Installer shall obtain and pay for all construction permits, inspections, etc., as required.

All work shall be performed in compliance with the following codes and standards:

- 2016 California Building Code
- 2016 California Mechanical code
- 2016 California Plumbing Code2016 California Mechanical Code
- 2016 California Code (Title-24)
- 2016 California Code (Title-24)
 2016 California Green Building Standards Code

SCOPE OF WORK

The work under this contract consists of furnishing all labor, materials, permits, inspection fees, and services required for the complete installation of the plumbing work shown on these documents and as required by any special conditions identified at the jobsite. The General and Special Conditions of the contract are hereby made a part of this section.

The scope of the work includes the installation, alteration, relocation, and connection of pipes, fixtures, water heaters, and appliances as shown on these documents for hot and cold fresh water supply, waste, and vent connections as applicable. Coordinate with other trades where required for connection of condensate drains or other connections to appliances and kitchen equipment.

Materials

All materials furnished under this contract shall be new, free from defects, and shall conform with the standards of the UL and NSF where such standards have been established, and shall be so labeled. Incidental materials not specified herein that are required to complete the work shall be of first (highest) quality for the use intended. Manufacturer's names and catalog numbers are used to designate the item of material or equipment as a means of establishing grade and quality. Manufacturers of a similar quality will be considered upon submittal by the contractor and may be substituted with written approval.

Installation

The entire installation shall be made in a neat, workmanship-like, finished, and safe manner.

Conceal all piping in finished areas, unless otherwise noted. The entire installation shall be subject to the Project Architect's and Owner's approval.

Provide dielectric protection at all dissimilar metal junctions or contact points. Roof and wall penetrations shall be properly sealed against weather penetration.

ALL PIPING SHALL BE BRACED OR SUPPORTED INDEPENDENTLY. Equipment connections shall not be used to support the weight of attached piping.

ALL EQUIPMENT AND FIXTURES SHALL BE BRACED OR SUPPORTED INDEPENDENTLY. Piping alone shall not be used to support the weight of fixtures or equipment.

All equipment and fixtures shall be installed per manufacturer's recommendations which shall have precedence over this drawing in all cases. Contact Engineer for confirmation prior to deviating from this document.

Materials

Water Piping

Type L copper with wrought copper fittings. Use lead-free 95/5 solder for all field joints.

Drain, Waste, and Vent Piping

Standard weight cast iron no-hub and matching fittings.

Storm Drains

Standard weight cast iron no-hub and matching fittings.

Indirect Waste Condensate Drains

Type L copper with wrought copper fittings. Use lead-free 95/5 solder for all field joints.

Fuel Gas Piping

Black steel - Schedule 40, with black steel or malleable iron threaded fittings.

NOTE: THIS IS AN OSHPD-3 MEDICAL OFFICE

Equipment



WH Water Heater (2 Required)

American Water Heaters Model ITCE31-50, 50 gallon tank, with immersion thermostat, electronic controls and CSA/ASME rated temperature/pressure relief valve.

Power input: 6kW @ 208V/1Ø/60 29 max amps

Minimum inlet temperature: 60°F

Supply loop temperature: $120^{\circ}F$, $\Delta T = 60^{\circ}F$, 41 gph recovery capacity (per tank) **CAUTION: NO CONNECTIONS TO SINKS OR LAVATORIES AT THIS TEMPERATURE.**

Provide complete with lead-free isolation/service valves and mixing valve at any faucet

connection. See fixture table for detail on mixing valves.

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Expansion Tank

Watts model DETA-5 ASME rated pressurized expansion tank for potable hot water with carbon steel shell, stainless steel system connection, and FDA approved butyl bladder. Precharge = 40 psi

Total tank volume = 3.5 gallons (Estimated actual total volume = 2.92)

Max acceptance = 1.3 gallons (Estimated actual acceptance = 0.75 gallons)

Static weight: 22 lbs

Max allowable temperature = 240°F (Max design temperature = 120°F)

Estimated weight at full acceptance: 52 lbs

Estimated system volume: 125 gallons (2 x 50 gal WH + 15 gal in piping + 10% misc)

Expansion Tank Support Bracket

HoldRite model "Quick Strap #QS-12" thermal expansion tank mounting bracket or equal. Stainless steel bracket and straps, load capacity 70 lbs.

Provide fasteners compatible with mounting surface.



Hot Water Circulation Pump

Taco model 008-IFC circulating pump, stainless steel flanged body with 1/25 HP, 115V, 60 Hz

Hot Water Circulation Pump Timer

Intermatic model ET-1705-120VAC-SPST Electronic Timer to control hot water circulation pump with integral steel NEMA Type-3 enclosure. Pump and timer to be same voltage (120V/1Ø/60) with internal battery backup. Programmable for 7-day operation, 28 events (up to 4 points per day), EPROM program memory, CA Title-24 compliant. Coordinate installation with Electrical Contractor.

Water Heater Enclosure

HoldRite model "Quick Strap #QS-12" thermal expansion tank mounting bracket. Stainless steel bracket and straps, load capacity 70 lbs.

Provide fasteners compatible with mounting surface.

Hot Water Return Flow Control Valve

ICSS model ICSS075FFH-1 in-line stainless steel flow controller, cartridge code "A+" (1.0 GPM), pressure range "H" (5 - 60 psi differential), 1/2" FPT inlet, 1/2" FPT union outlet. Alternate end style may be substituted for installation convenience.

Hot Water Recirculating Line Check Valve

Watts LFWCV (threaded) or LFWCVS (sweat fitting) brass lead-free swing check valve. Size to match pipe size where installed.

Drinking Water Fountain

TO BE PROVIDED BY OWNER

Fixtures

- See fixture table sheet P-1.1
- S JANITOR SINK
- SK COUNTERTOP SINK
- LAV LAVATORY
 WC WATER CLOSET / TOILET

NOTE: ALL FIXTURES LISTED FOR DESIGN REFERENCE ONLY. VERIFY ALL FIXTURES WITH ARCHITECT OR MEDICAL SYSTEM DESIGNER PRIOR TO PURCHASE OR INSTALLATION.

- All faucets in public restrooms shall be self-closing or self-closing metering faucets
- All fixtures, equipment, piping, and materials shall be listed (UL, IAPMO, City of Los Angeles, etc.) as required.
- All plumbing fixtures shall meet the flow requirements specified in the Los Angeles Plumbing
 Code

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TO HELP EVERYONE
LENNOX CLINIC
10223 FIRMONA AVE.
LENNOX, CA 90304

29-Mar-19 18-08003.01

Scope of Work and Equipment Specifications

P-1.0

C.J. Barszcz & Associates
9030 W. Sahara Ave #172 Las Vegas, NV 89117
702-240-7240 https://cjbarszczassoc.com

Consulting Mechanical Engineers

								FIXTURE TABLE (BY ROOM)			
Index	Mark	Location	Function	Туре	Fixture	Manufacturer	Model	Description	Finish	Color	Notes
1	WC-1	111	Restroom	1	Toilet	American Standard	2467.100	Cadet Flowise 1.1 GPF high-efficiency	1111311	White	Provide American Standard 5901.110T elongated, antimicrobial, open-front seat
2	LAV-1	111	Restroom	2	Lavatory	Kohler	K-2084-N Soho	Wall-hung sink		White	Provide K-8998 P-Trap with cleanout plug, drain tube assembly with fixed grid
3		111	Restroom	3	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
4	WC-2	112	Restroom	1	Toilet	American Standard	2467.100	Cadet Flowise 1.1 GPF high-efficiency		White	Provide American Standard 5901.110T elongated, antimicrobial, open-front seat
5	LAV-2	112	Restroom	2	Lavatory	Kohler	K-2084-N Soho	Wall-hung sink		White	Provide K-8998 P-Trap with cleanout plug, drain tube assembly with fixed grid
6		112	Restroom	3	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
7	WC-3	120	Restroom	1	Toilet	American Standard	2467.100	Cadet Flowise 1.1 GPF high-efficiency		White	Provide American Standard 5901.110T elongated, antimicrobial, open-front seat
8	LAV-3	120	Restroom	2	Lavatory	Kohler	K-2084-N Soho	Wall-hung sink		White	Provide K-8998 P-Trap with cleanout plug, drain tube assembly with fixed grid
9		120	Restroom	3	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
10	WC-4	121	Restroom	4	Toilet	Kohler	K-96057-L Highline	High efficiency elongated bowl; 1.28 gpf		White	Provide American Standard 5901.110T elongated, antimicrobial, open-front seat
11		121	Restroom	5B	Bedpan Washer	American Standard	6047.820.002	Bedpan washer diverter kit	Chrome		1.28 gpf piston-operated manual flush valve; 1" CW inlet; 1-1/2" top spud
12	LAV-4	121	Restroom	6	Lavatory	Kohler	K-2084-N Soho	Wall-hung sink		White	Provide K-8998 P-Trap with cleanout plug, drain tube assembly with fixed grid
13		121	Restroom	7	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
14	SK-1	105	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
15		105	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
16	SK-2	106	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
17		106	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
18	SK-3	107	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
19		107	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
20	SK-4	108	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
21		108	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
22	SK-5	116	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
23		116	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
24	SK-6	118	Exam Rm	8	Sink	Just Mfg	SBL-ADA-1815-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-15-CB fixed strainer grid & drain tailpiece
25		118	Exam Rm	9	Faucet	American Standard	Selectronic 6057.104	Commercial single hole elect faucet	Chrome		For LAV-1; 0.35 gpm, 0.044 gal per cycle. Provide PK00.HAC hard-wired AC power supply kit (NO BATTERY SUPPLY); Provide 605XTMV1070 mixing valve (ASSE Certified for 0.35 gpm operation
26	SK-7	102	Nurse Station	10	Sink	Just Mfg	A-544-912-S	Single bowl, single hole centered faucet punch	SS		Provide Just JT-150 trap and Just J-15-FS drain
27		102	Nurse Station	10	Faucet	Just Mfg	JSL-46-AC	Institutional elect faucet	Chrome		For SK-7; plug-in power option; Laminar flow 2.0 GPM, adjustable cycle time. Provide JTM47 thermostatic anti-scald mixing valve. Adjust temp to 105F Set cycle time to 0 (active until no activity sensed)
28	SK-8	114	Soiled	11	Sink	Just Mfg	SL-2119-A-GR	Single bowl, 3-hole, 4" centers	SS		Provide complete with J-35 stainless steel basket strainer w/locking shell
29		114	Soiled	12	Faucet	Just Mfg	J-1174-KS	Concealed ledgemount, 8" centers	Chrome		For SK-8
30	SK-9	104	Medical Lab	13	Sink	Just Mfg	DLN-2137-A-GR	Double bowl, 3-hole, 4" centers	SS		Integra-Drain integral drain system includes custom basket strainer & tailpiece
31	CIC	104	Medical Lab	14	Faucet Saucet Manust	Just Mfg	J-1174-KS	Concealed ledgemount, 8" centers	Chrome		For SK-9
32	SK-9 SK-11	104 124	Medical Lab Housekeeping	14B 15	Eyewash - Faucet Mount Sink	Just Mfg Kohler	JG-1100 K-6718 (Bannon)	Single bowl, standard wall mount, enamel finish	Chrome	White	Provide K-6673-NA Adjustable support trap with cleanout plug & fixed strainer grid
34	OV TT	124	Housekeeping	16	Faucet	Chicago Faucets	897-RCF	Single bowl, standard wan infount, challet lillish	Chrome	VVIIICE	For SK-11
	_		. 0			_					
35	DF-1	100	Waiting Room	17	Drinking Fountain	Elkay	LZ(S)TL8		TBD	TBD	**BY OWNER-INSTALLED BY GC
	SK-10		Staff Lounge		Sink	Just Mfg	SL-2119-A-GR	Single bowl, single hole centered faucet punch	SS		Provide complete with J-35 stainless steel basket strainer w/locking shell
37		110	Staff Lounge	19	Faucet	Kraus	Oletto KPF-2620		Chrome		For SK-10

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LENNOX CLINIC 10223 FIRMONA AVE. LENNOX, CA 90304

29-Mar-19

29-Mar-19 CJB 18-08003.01

Plumbing Fixtures and Specifications

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C.J. Barszcz & Associates
9030 W. Sahara Ave #172 Las Vegas, NV 89117
702-240-7240 https://cjbarszczassoc.com

Consulting Mechanical Engineers

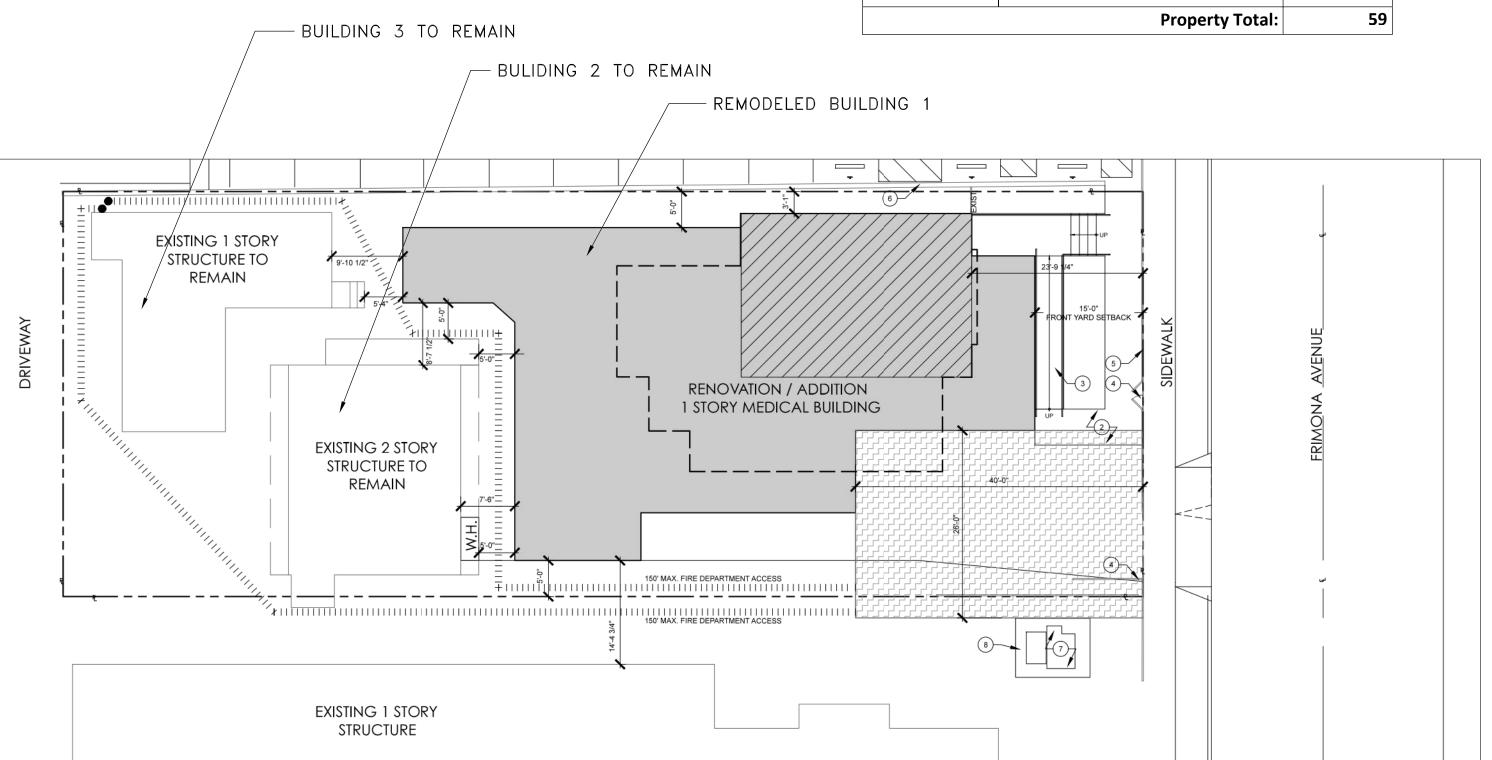
Eq					
Mark	Location	CW FU	HW FU	HW GPH	
LAV-01	Building 1 - Restrm - Staff 1	0.75	0.75	2	
LAV-01	Building 1 - Restrm -				
	Patient 1	0.75	0.75	3	0.4 gpm @ sink => (15) 30 sec hand wash per hr
LAV-02	Building 1 - Restrm - Staff 2	0.75	0.75	2	
LAV-02	Building 1 - Restrm - Patient 2	0.75	0.75	3	0.4 gpm @ sink => (15) 30 sec hand wash per hr
SK-1	Building 1 - Exam 1	0.75	0.75	2	0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-2	Building 1 - Exam 2	0.75	0.75		0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-3	Building 1 - LXaiii 2	0.75	0.75	2	0.4 gpm @ sink => 3 per in (30 sec 2) = 12 inin/visit
	Building 1 - Exam 3	0.75	0.75	2	0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-4	Building 1 - Exam 4	0.75	0.75	2	0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-5	Building 1 - Exam 5	0.75	0.75		0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-6	Building 1 - Exam 6	0.75	0.75	2	0.4 gpm @ sink => 5 per hr (30 sec * 2) = 12 min/visit
SK-7	Building 1 - Lab	0.75	0.75	3	
SK-8	Building 1 - Soiled	0.75	0.75	3	
SK-9	Building 1 - Nurse Office	0.75		2	
SK-10	Building 1 - Lounge	2.25		2	
SK-11	Building 1 - Housekeeping	2.25		5	
WC-01	Building 1 - Restrm -			3	
WC-02	Staff 1 Building 1 - Restrm -	2.5			
WC-03	Staff 2 Building 1 - Restrm -	2.5			
WC-04	Patient 1 Building 1 - Restrm -	2.5			
		l	İ	I	
	Patient 2	2.5			
Sub-Total Wate	Building 1 - Exterior	2.5 1.0 25.25 39.5			
Sub-Total Wate	Building 1 - Exterior er Supply Vater Supply CWFU	1.0 25.25		37	
Sub-Total Wate	Building 1 - Exterior er Supply Vater Supply CWFU	1.0 25.25		37	
	Building 1 - Exterior er Supply Vater Supply CWFU	1.0 25.25		37	
Sub-Total Wate Total BuildingV Total HW GPH	Building 1 - Exterior er Supply Vater Supply CWFU	1.0 25.25	14.25	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1	Building 1 - Exterior er Supply Vater Supply CWFU (Building 1)	25.25 39.5 0.75	0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta	25.25 39.5	0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor	Building 1 - Exterior er Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental	25.25 39.5 0.75	0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental	25.25 39.5 0.75	0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta	1.0 25.25 39.5 0.75 1.00	0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental	1.0 25.25 39.5 0.75 1.00 0.75 2.5	0.75 0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75	0.75 0.75 3.0	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - Dental	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0	0.75 0.75 0.75 3.0 0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75	0.75 0.75 0.75 3.0 0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5	0.75 0.75 0.75 3.0 0.75	37	All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5	0.75 0.75 0.75 3.0 0.75		All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Buil	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0	0.75 0.75 3.0 0.75		All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Buil	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0	0.75 0.75 3.0 0.75		All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Pental Building 2 - Dental Building 2 - Pental	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0	0.75 0.75 3.0 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Total Building	Building 1 - Exterior Per Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Pental Building 3 - Restrm	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0	0.75 0.75 3.0 0.75		All fixtures existing to remain - not part of remodel All fixtures existing to remain - not part of remodel
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Total Building Tub/Shower Lavatory-2	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Pental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply Building 3 - Restrm Building 3 - Restrm	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19	14.25 0.75 0.75 3.0 0.75 3.00 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Total Building Tub/Shower Lavatory-2 Toilet Total Cuspidor	Building 1 - Exterior Pr Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply Water Supply CWFU Building 3 - Restrm Building 3 - Restrm Building 3 - Restrm	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19	14.25 0.75 0.75 3.0 0.75 3.00 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Total Building Tub/Shower Lavatory-2 Toilet Total Cuspidor	Building 1 - Exterior Per Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Pental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply Building 3 - Restrm Building 3 - Restrm	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19	14.25 0.75 0.75 3.0 0.75 3.00 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Total Building Tub/Shower Lavatory-2 Toilet Landscaping	Building 1 - Exterior Pr Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply Water Supply CWFU Building 3 - Restrm Building 3 - Restrm Building 3 - Restrm	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19	14.25 0.75 0.75 3.0 0.75 3.00 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Tub/Shower Lavatory-2 Total Building Tub/Shower Lavatory-1	Building 1 - Exterior Pr Supply Water Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply Water Supply CWFU Building 3 - Restrm Building 3 - Restrm Building 3 - Restrm Exterior	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19 3.00 0.75 2.5 1.0	14.25 0.75 0.75 3.0 0.75 3.00 0.75		
Sub-Total Wate Total BuildingV Total HW GPH Sink-1 Cuspidor Lavatory-1 Toilet 1 Lavatory Tub/Shower Lavatory-2 Toilet Landscaping Sub-Total Building Tub/Shower Lavatory-2 Total Building Sub-Total Building	Building 1 - Exterior Pr Supply Vater Supply CWFU (Building 1) Building 2 - Kitchen Building 2 - Dental Sta Building 2 - Dental Building 2 - Dental Building 2 - Dental Building 2 - 2nd Flr Building 2 - 2nd Flr Building 2 - 2nd Flr Exterior Iding Water Supply SWater Supply CWFU Building 3 - Restrm Building 3 - Restrm Building 3 - Restrm Exterior	1.0 25.25 39.5 0.75 1.00 0.75 2.5 0.75 3.0 0.75 2.5 1.0 13.00 19 3.00 0.75 2.5	14.25 0.75 0.75 3.0 0.75 3.00 0.75		

ltem	PRESSURE LOSS (psig)	AVAILABLE PRESSURE (psig)
SUPPLY PRESSURE (set at regulator)		60
PRESSURE LOSS TO HEIGHT (14' ABOVE METER)	6.1	53.9
PRESSURE REGULATOR (No regulator required - supply < 80 psi)	0	53.9
METER PRESSURE LOSS (NEW 1" Ø METER)	4.2	49.7
MINIMUM RESIDUAL PRESSURE REQUIRED	-	15
PRESSURE AVAILABLE FOR FRICTION LOSS		34.7
DIST TO MOST REMOTE FIXTURE (feet)	160	
PIPE FITTING ALLOWANCE FACTOR	1.25	
DEVELOPED PIPE LENGTH INCLUDING FITTING ALLOWANCE (160	x 1.25) = 200	
ALLOWABLE FRICTION LOSS (34.7 psig / 200 ft x 100) @ 7 fps		17.4 psi / 100

ALLOW	ALLOWABLE FRICTION LOSS (34.7 psig / 200 ft x 100) @ 7 fps													
	FIXTUF	RE UNIT	ΓS vers	ER PIPE us FRIC PE L CO	CTION L		PSI/100	ft)						
Friction Loss psi 100 ft	Nominal Pipe Diameter (inches) Internal Pipe Diameter (inches)	0.5 0.545	0.75 0.785	1 1.025	1.25 1.265	1.5 1.505	2 1.985	2.5 2.465	3 2.945	3.5 3.425	4 3.905			
17	Cold Water - Flush Valve Cold Water - Flush Tank Hot Water (5 ft/s max)	0 4 3	0 16 8	0 30 16	14 56 28	35 103 46	132 254 119	329 455 245	666 719 406	1091 1091 585	1668 1668 840			
17.5	Cold Water - Flush Valve Cold Water - Flush Tank Hot Water (5 ft/s max)	0 4 3	0 16 8	0 30 16	14 56 28	35 103 46	132 254 119	329 455 245	666 719 406	1091 1091 585	1668 1668 840			

PLUMBING FIXTURE FLOW RATES Non-residential Occupancies										
Fixture Type	MAXIMUM ALLOWABLE FLOW RATE									
Showerheads	2.0 gpm @ 80 psi									
Kitchen faucets	1.8 gpm @ 60 psi									
Lavatory faucets, commercial/non-residential	0.4 gpm @ 60 psi									
Wash fountains	1.8*[rim space/20] gpm @ 60 psi									
Flushometer tank water closets	1.28 gal/flush									
Urinals	0.125 gal/flush									

Eq	Landing	Drainage
Mark	Location Building 1 - Housekeeping	FU
JS-1	Building 1 - Exam 1	
SK-1	Building 1 - Exam 2	
SK-2	Building 1 - Exam 3	
SK-3	Building 1 - Exam 4	
SK-4 SK-5	Building 1 - Exam 5	
SK-6	Building 1 - Exam 6	
SK-7	Building 1 - Lab	
SK-7 SK-7	Building 1 - Soiled	
SK-8	Building 1 - Lounge	
SK-9	Building 1 - Nurse Office	
LAV-01	Building 1 - Restrm - Staff 1	
LAV-01 LAV-02	Building 1 - Restrm - Staff 2	
LAV-02 LAV-01	Building 1 - Restrm - Patient 1	
LAV-01 LAV-02	Building 1 - Restrm - Patient 2	
WC-01	Building 1 - Restrm - Staff 1	
WC-01 WC-02	Building 1 - Restrm - Staff 2	
WC-02 WC-03	Building 1 - Restrm - Patient 1	
WC-04	Building 1 - Restrm - Patient 2	
WC 04	Building Sub-Total	3
Sink-1	Building 2 - Kitchen	
Cuspidor	Building 2 - Dental Sta	
Lavatory-1	Building 2 - Dental Sta	
Toilet 1	Building 2 - Dental	
Lavatory	Building 2 - Dental	
Tub/Shower	Building 2 - 2nd Flr	
Lavatory-2	Building 2 - 2nd Flr	
Toilet	Building 2 - 2nd Flr	
	Building Sub-Total	1
T 1 /61	Duilding 2 Destruct	
Tub/Shower	Building 3 - Restrm	
Lavatory-2	Building 3 - Restrm	
Toilet	Building 3 - Restrm	
	Building Sub-Total	
	Property Total:	5



SITE PLAN
SCALE: NONE

NOTE:

SITE PLAN REPRODUCED HERE ONLY TO INDICATE BUILDING REFERENCES. SEE ARCHITECT'S PLAN FOR DETAIL.

C.J. Barszcz & Associates
9030 W. Sahara Ave #172 Las Vegas, NV 89117 702-240-7240 https://cjbarszczassoc.com Consulting Mechanical Engineers

0.00 |0.50 |1.00

integrated construction management sustainability totum

29-Mar-19 CJB 18-08003.01

Plumbing Fixture CW/HW/Drain Loads

CERTI	FICATE O	F COMPLIANCE			NRCC-PLB-				
Wate	r Heating	System General Infor	mation		(Page 1				
Project N	^{ame:} To Hel	p Everyone (Lennox Clin	ic)		Date Prepared: 05-Mar-2019				
A. GE	NERAL IN	IFORMATION/SYSTEM	INFORMATION	V					
01	Water H	eater System Name:							
02	Water H	eater System Configur	ation:	Central System					
03	Water H	eater System Type:		Domestic Hot Water					
04	Building	Type:		Nonresidential					
05	Total Nu	mber of Water Heater	s in Systems:	2					
06	Central [OHW Distribution Type	:	Recirculation Continuous Moni	toring Systems				
07	Dwelling	Unit DHW Distributio	n Type:						
B. WA	TER HEA	TER INFORMATION							
		ater type requires a se	parate complian						
		eater Type:		Small Storage - Electric					
02	Fuel Typ			Electricity					
03		ture Name:		American Water Heater					
_	Model N			ITCE31-50					
_		of Identical Water He		2					
06		Water Heater System	Efficiency:						
-		Minimum Efficiency: Loss Percent or Stand	by Loss Total:						
09	Rated In		by Loss Total.						
10	Pilot Ene	-							
		eater Tank Storage Vo	lume:	50 gal / tank					
12		Insulation on Water H		None					
		of Supplemental Stora		110110					
14		Insulation on Supplem							
15		Insulation on Supplem							
C. PLU	MBING C	OMPLIANCE FORMS 8	& WORKSHEETS						
Check	box if wo	rksheet is included.							
For det	ailed instr	uctions on the use of thi	s and all Energy St	tandards compliance documents, re	efer to the 2016 Nonresidential Manual				
				documents to be incorporated onto	the building plans.				
	_	Doc/Worksheet #	Title						
0	0	NRCC-PLB-01-E		Compliance, Declaration. Require					
0	0	NRCI-PLB-01-E		nstallation. Required on plans fo					
hotel/motel a				f Installation, required on central systems in high-rise residential, application.					
0	•	NRCI-PLB-03-E	residential, ho	Installation, required on single dwelling unit systems in high-rise otel/motel application.					
0	•	NRCI-PLB-21-H	residential, ho	f Installation, required on HERS verified central systems in high-rise notel/motel application.					
0	•	NRCI-PLB-22-H		nstallation, required on HERS ve l, hotel/motel application.	rified single dwelling unit systems in				
-	•	NRCI-STH-01-E	Certificate of I	nstallation, required on any sola	r water heating				
0									
0									

STATE OF CALIFORNIA WATER HEATING SYSTEM GENERAL IN CEC-NRCC-PLB-01-E (Revised 01/16)	NFORMATION CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE	NRCC-PLB-
Water Heating System General Information	(Page 2
Project Name: To Help Everyone (Lennox Clinic)	Date Prepared: 05-Mar-2019
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation Documentation Author Name: Chartes I. Rosses	on is accurate and complete. Documentation Author Signature:
Criester J. barszcz	
C.J. Barszcz & Associates	Signature Date:
Address: 9030 W. Sahara Ave #172	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Las Vegas, NV 89117	Phone: 702.240.7240
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
system design identified on this Certificate of Complianc California Code of Regulations. 4. The building design features or system design features in information provided on other applicable compliance do the enforcement agency for approval with this building. 5. I will ensure that a completed signed copy of this Certific issued for the building, and made available to the enforce signed copy of this Certificate of Compliance is required	aterials, components, and manufactured devices for the building design of the conform to the requirements of Title 24, Part 1 and Part 6 of the identified on this Certificate of Compliance are consistent with the ocuments, worksheets, calculations, plans and specifications submitted t
owner at occupancy. Responsible Designer Name: Chester J. Barszcz	Responsible Designer Signature:
Company: C.J. Barszcz & Associates	Date Signed:
Address: 9030 W. Sahara Ave #172	License: M-25802
City/State/Zip: Las Vegas, NV 89117	Phone: 702,240,7240



Commercial Electric Water Heater

COMMERCIAL HEAVY DUTY WATER HEATER WITH IMMERSION THERMOSTAT

Designed for use as a recovery heater having its own storage tank or booster for supplying sanitizing rinse water for dish washing.

FEATURES

 Meets the thermal efficiency and or standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1.

ADVANCED ELECTRONIC CONTROL Plain English text and animated icons display detailed operational and diagnostic three phase delta. Convertible from three-

information. Fault or Alert messages phase to single-phase (in field) and vice appear if an operational issue occurs. phase also available. Immersion temperature control adjustable **TERMINAL BLOCK** through a range of 90°F to 190°F. ECONOMY MODE OPERATION Factory installed. Allows for easy service connection to block. · Control system automatically lowers the MAGNETIC CONTACTORS

Operating Set Point by a programmed value during user-defined time periods. Helps reduce operating costs during Helps reduce operating costs during unoccupied or off - peak demand periods. THREE YEAR LIMITED TANK WARRANTY LINEAR SEQUENCING

 Banks of heating elements (3 elements per bank) are energized according to adjustable (1 to 20°F) differential set points OTHER STANDARD FEATURES for each bank. First bank on is the last bank off. Helps reduce current surge and
• Immersion style thermostats provides accurate water temperature

GOLDENROD ELEMENTS All ITCE31 models ship standard with patented Goldenrod 24K gold plated elements. Goldenrod elements provide

long life with superior scaling resistance. GLASS-LINED TANK Three sizes; 50, 80 and 119 gallon capacity. Tank interior is coated with glass • Top outlet, side inlet and relief valve specially developed by American for water openings

heat loss. ASME (optional) maximum

working pressure is 160 psi.

RECOVERY CAPACITIES

quick, easy access Two anode rods for maximum corrosion protection baked enamel finish

POWER CIRCUIT FUSING

from short circuits, overloading or line

surges. Meets National Electric Code

requirements (fusing required when

current draw exceeds 48 amps). STANDARD VOLTAGES

208, 240 and 480V single-phase and

Heavy duty; UL rated 100,000 cycles.

consult written warranty or go to

· Simplified circuitry, color coded for ease

americanwaterheater.com.

heater use. Foam insulation reduces costly • Nipple and brass drain valve CSA certified and ASME rated T&P relief



MODELS

ITCE31-50, 80, 119

www.americanwaterheater.com or call (800) 456-9805 | Copyright © by American® Water Heaters. All Rights reserved. April 2016



Figured at 1 kW (3413 BTU) = 4.1 Gallons at 100°F temperature rise.

For complete warranty information consult the written warranty of American Water Heaters found at:

Commercial Electric Water Heater

Standard	BTU/Hour	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
kW Input	5166	17°C	22°C	28°C	33°C	39°C	45°C	50°C	56°C	61°C	67°C	72°C	78°C
6	20.478	82	62	49	41	35	31	27	25	22	21	19	18
	20,470	310	233	166	155	133	116	103	93	85	78	72	66
9	30,717	123	92	74	62	53	46	41	37	34	31	28	26
	00,111	465	349	279	223	199	174	155	140	127	116	107	100
12	40,956	164	123	98	82	70	61	55	49	45	41	38	35
"-	40,000	620	465	372	310	266	233	207	186	169	155	143	133
13.5	46,075	184	138	111	92	79	69	62	55	50	46	43	40
10.0	40,073	698	523	419	349	299	262	233	209	190	174	161	150
15	51,195	205	154	123	102	88	77	68	61	56	51	47	44
10	51,155	775	582	465	388	332	291	258	233	211	194	149	166
18	61,434	246	184	148	123	105	92	82	74	67	62	57	53
10	01,454	930	698	558	465	399	349	310	279	254	233	215	199
24	81,912	328	246	197	164	140	123	109	98	90	82	76	70
24	01,912	1241	930	744	620	532	465	414	372	338	310	286	266
27	00.454	369	276	221	185	158	138	123	111	101	92	85	79
21	92,151	1396	1047	938	609	509	523	465	410	391	340	322	299
30	102,390	410	307	246	205	176	154	137	123	112	102	95	88
30	102,390	1551	1163	930	775	665	582	517	465	423	388	358	332
36	122,868	492	369	295	246	211	184	164	148	134	123	113	105
30	122,000	1861	1396	1117	930	798	698	620	556	508	465	429	399
40.5	138,226	554	418	332	277	237	208	185	166	151	138	128	119
40.5	130,220	2094	1570	1256	1047	897	785	698	628	634	582	537	498
45	153,585	615	461	369	307	263	230	205	184	168	154	142	132
45	100,080	2326	1745	1398	1163	997	872	755	698	634	582	537	498
54	104 202	738	554	443	359	316	277	246	221	20	185	170	158
54	184,302	2791	2094	1675	1396	1196	1047	930	837	761	696	644	598

Page 3 of 4 NCESS00908



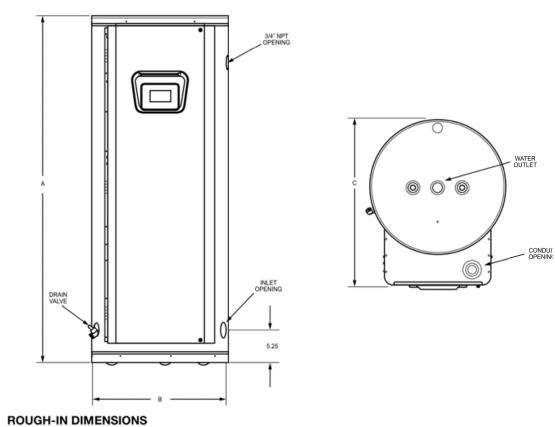
Commercial Electric Water Heater

OPTIONS:

ASME 160 psi (1103 kPa) tank construction.

 UL Listed conversion kits to adjust voltage and kW requirement in the field before and after installation. • Manifold kits for multiple tank installations. Two heaters -part # 9003429205, three heaters - part # 9003430205 and four heaters -

• International voltages - 220, 380, 400, 415, 575, and 600 volts, three phase available with Y connected elements.



		Tout O	annaite.			Dimei	Inlet/Outlet	Approx. Shipping Weigl					
-1	Model Number	lank C	apacity	A			В			(NPT)	Approx. Snipping Weigi		
		gal.	litre	Inches	cm	Inches	cm	Inches	cm	Inches	lbs	kG	
	ITC31-50	50	189	55-3/4	142	21-3/4	55.2	27	68.6	1-1/4	265	120	
	ITC31-80	80	302	60-1/4	153	25-1/2	64.8	31	78.7	1-1/4	280	127	
	ITC31-119	119	450	62-1/4	158.1	29-1/2	75	35	88.9	1-1/4	390	177	
	For ASME const	ruction add "/	A" to the front	of the model	number (exar	mple: AITCE3	1-50-24).						



Commercial Electric Water Heater

	Mandal Norm	hara Tank Canasi	to in Callana			Full Load Current in Amperes							
kW Input	Model Nun	nbers Tank Capaci	Number of Elements	Element Wattage		Single	Three Phase						
	50	80	119			208V	240V	277V	480V	208V	240V	480	
6	ITCE31-50-6	ITCE31-80-6	ITCE31-119-6	3	2,000	28.8	25	21.7	12.5	16.7	14.4	7.2	
9	11CE31-50-9	11CE31-80-9	11CE31-119-9	3	3,000	43.3	37.5	**32.5	18.8	25	21.7	10.8	
12	ITCE31-50-12	ITCE31-80-12	ITCE31-119-12	3	4,000	57.7	50	43.3	25	33.3	28.9	14.	
13.5	ITCE31-50-13.5	ITCE31-80-13.5	ITCE31-119-13.5	3	4,500	64.9	56.3	**48.7	28.1	37.5	32.5	16.	
15	ITCE31-50-15	ITCE31-80-15	ITCE31-119-15	3	5,000	72.1	62.5	**54.2	31.3	41.6	36.1	18	
18	ITCE31-50-18	ITCE31-80-18	ITCE31-119-18	3*	6,000	86.5	75	65	37.5	50	43.3	21.	
24	ITCE31-50-24	ITCE31-80-24	ITCE31-119-24	6	4,000	115.4	100	86.6	50	66.6	57.7	28.	
27	ITCE31-50-27	ITCE31-80-27	ITCE31-119-27	6	4,500	129.8	112.5	**97.5	56.3	74.9	65	32.	
30	ITCE31-50-30	ITCE31-80-30	ITCE31-119-30	6	5,000	144.2	125	**108.3	62.5	83.3	72.2	36.	
36	ITCE31-50-36	ITCE31-80-36	ITCE31-119-36	6*	6,000	173.1	150	130	75	99.9	86.6	43.	
40.5	N/A	ITCE31-80-40.5	ITCE31-119-40.5	9	4,500	194.7	168.8	**146.2	84.4	112.4	97.4	48.	
45	N/A	ITCE31-80-45	ITCE31-119-45	9	5,000	216.3	187.5	**162.5	93.8	124.9	108.3	54.	
54	N/A	ITCE31-80-54	ITCE31-119-54	9	6,000	N/A	225	194.9	112.5	149.9	129.9	65	

208 volt models may contain three (3)
** Elements available in incoloy only.

SUGGESTED SPECIFICATION

The heater(s) shall be Heavy-Duty Commercial Electric Model Number_____as manufactured by American Water Heaters or equivalent. Heater(s) shall be rated at_____kW ____V ____phase, 60 cycle AC as listed by Underwriters' Laboratories. All models meet National Sanitation Foundation NSF-5 requirements. Water heater shall have LCD display with built-in diagnostic and troubleshooting information. Tank(s) shall be _____ (50, 80 or 119) gallon capacity with _____(150 [Std] or 160 [ASME]) psi working pressure and equipped with dual extruded high density anodes. All internal surfaces of the heater(s) exposed to water shall be glass-lined with an alkaline borosilicate composition that has been fused to steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be 24K Goldenrod medium watt density screw-in type with Incoloy sheath and ceramic terminal block. Internal power circuit fusing shall be provided. Element operation shall be linear sequencing through individual magnetic contactors. Control circuit shall be factory fused and include an immersion thermistor temperature probe with built in ECO control. Control cabinet and jacket shall be of baked enamel finish and shall provide full size control and element compartment for complete service and maintenance performance through front hinged compartment door, and enclose tank with foam insulation. 1 1/4" inlet and outlet connection shall be provided. The heater tank shall have a three year limited warranty and controls and accessories shall have a one year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included. For multiple installation, factory built manifold kits for_____(2, 3 or 4) heater installation shall be provided. Meets or exceeds the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IES 90.1.

r technical information call (800) 456-9805. American Water Heaters reserves the right to make product changes or improve

American Water Heaters | 500 Princeton Road (FEDEX, UPS), Johnson City, TN 37601-2030 P.O. Box 1597 (Mailing), Johnson City, TN 37605-1597

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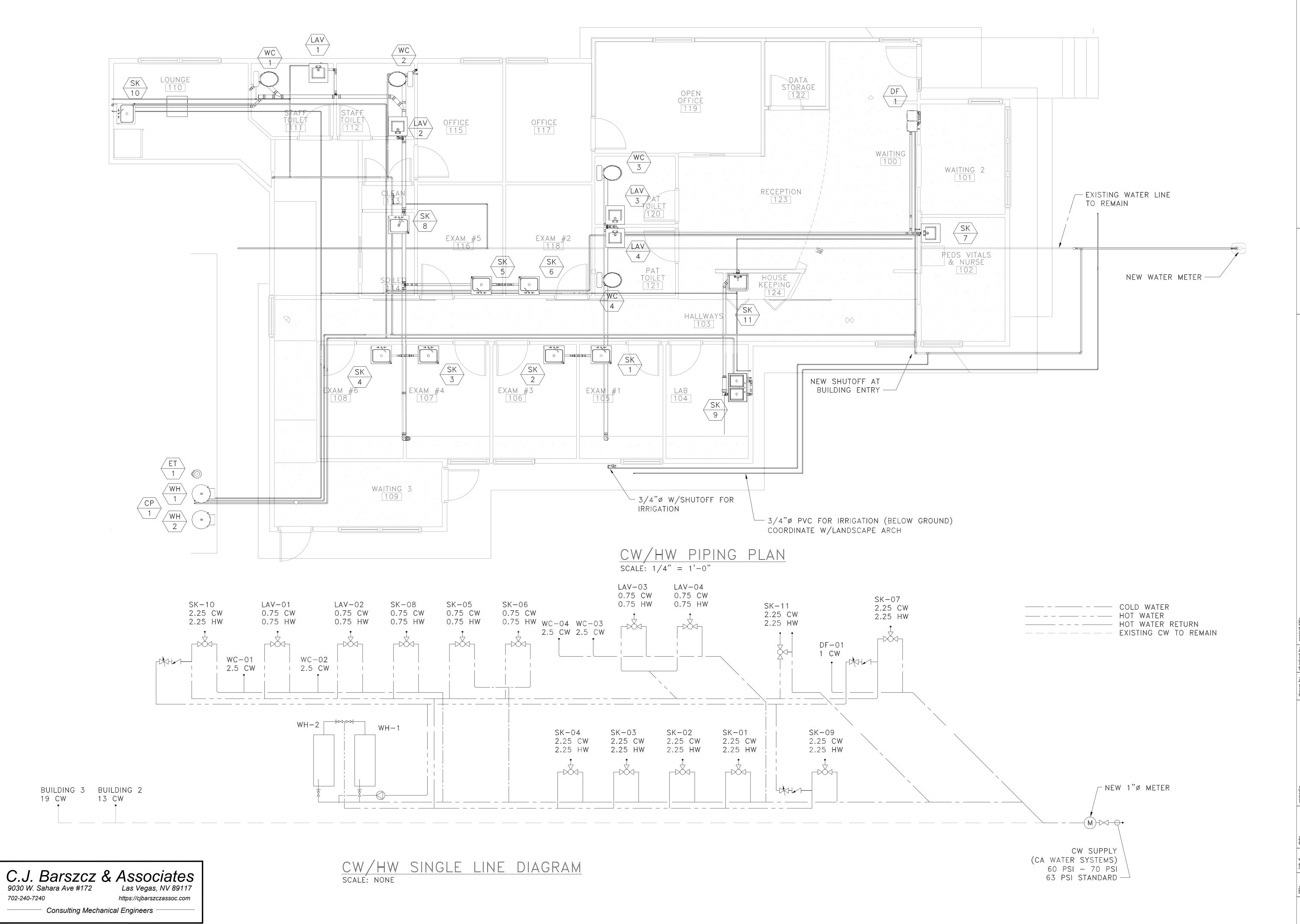
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18-08003.01 Water Heater Specifications and

C.J. Barszcz & Associates Las Vegas, NV 89117 9030 W. Sahara Ave #172 702-240-7240 https://cjbarszczassoc.com Consulting Mechanical Engineers

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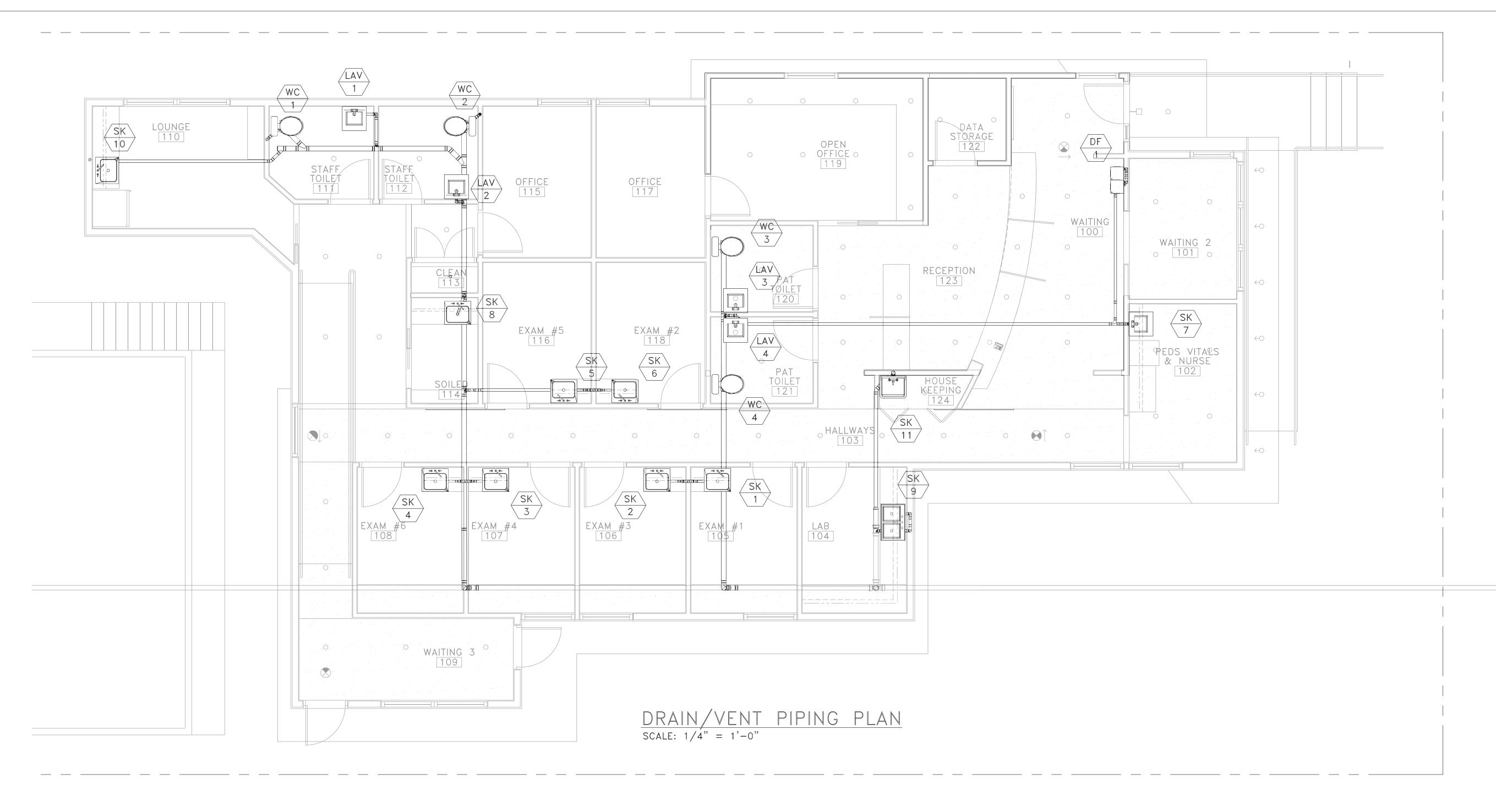
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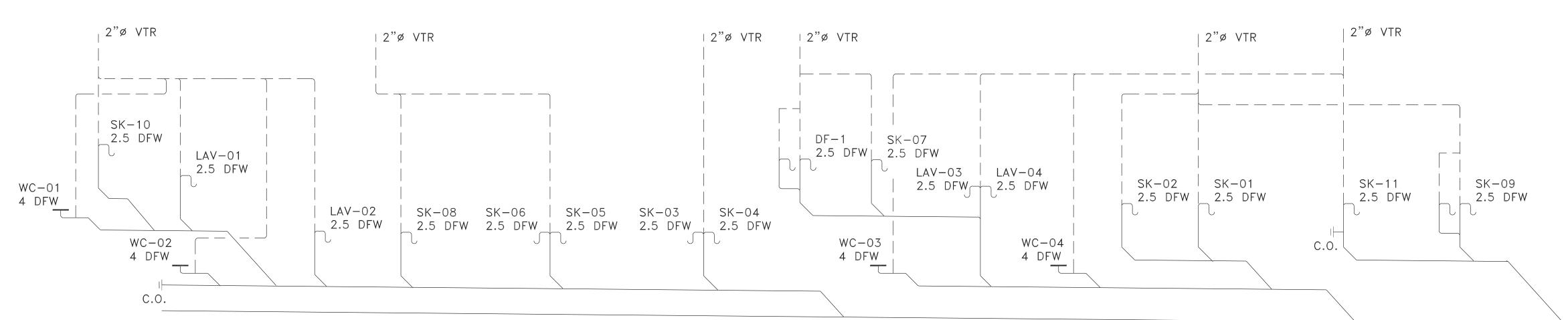
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CW/HW One—line Diagram & Schematic

P-2.0





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9030 W. Sahara Ave #172 Las Vegas, NV 89117
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Consulting Mechanical Engineers

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DRAIN/VENT SINGLE-LINE DIAGRAM SCALE: NONE



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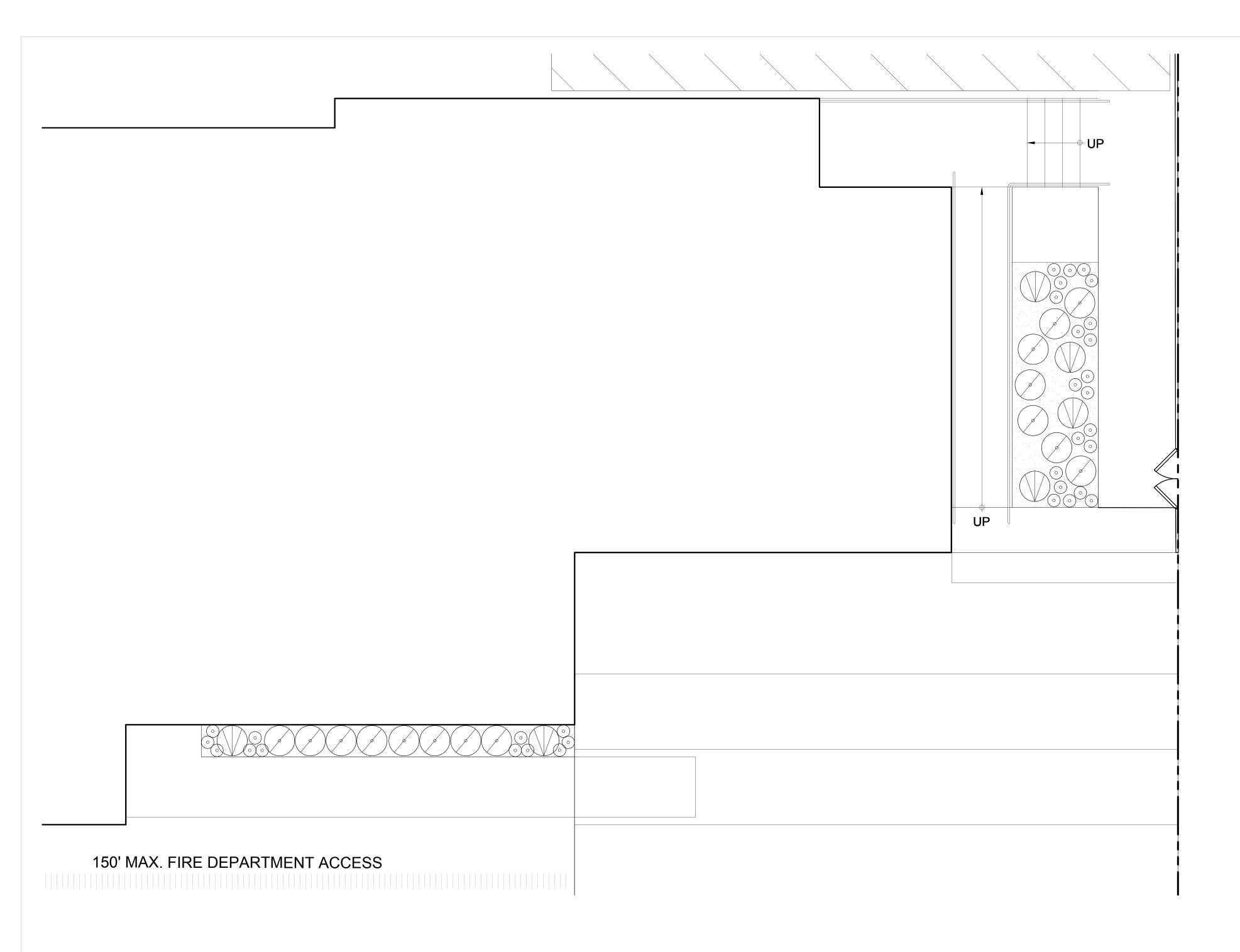
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LENNOX, CA 90304

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Sanitary Drain/Vent One—Line Diagram & Schematic

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PLANT AND MATERIALS LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	HT X W	WATER USE
	HESPERALOE PARVIFLORA	RED YUCCA 'PERPA'	1 GAL.	15	2' HT X 2' W	LOW
	ACHILLEA MILLEFOLIUM	YARROW 'TERRA COTTA YARROW'	1 GAL.	6	12" HT X 2' W	LOW
	FESTUCA GLAUCA	BLUE FESCUE 'ELIJAH BLUE'	1 GAL.	33	10" HT X 10" W	LOW
		SMALL BARK MULCH	175 SQ. FT.			3" DEPTH THROUGHOUT PLANTERS
	AGRIFORM FERTILIZER TABS 12-12-12			AS DIRECTED PER LABEL RECOMMENDATIONS ORGANIC COMPOSTED SOIL CONDITIONER - (INCORPORATE INTO SOIL PER LABEL RECOMMENDATIONS)		

PLANTING NOTES

- 1. THE CONTRACTOR SHALL CALL FOR A PRE-PLANTING MEETING WITH THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (8-1-1) TWO DAYS PRIOR TO EXCAVATION FOR PLANTING.
 IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES OR STRUCTURES ABOVE OR BELOW GROUND, SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL
- 4. ALL PLANTING AND IRRIGATION SHALL BE MAINTAINED BY THE CONTRACTOR FOR A MINIMUM OF NINETY (90) DAYS. THE CONTRACTOR SHALL SCHEDULE A WALKTHROUGH AT 30-DAY INTERVALS PRIOR TO ACCEPTANCE.
- 5. THE DESIGN SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO BIDDING.
- 6. THE CONTRACTOR SHALL PROVIDE FOR POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AT A 2% MINIMUM FOR
- LANDSCAPED AREAS UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT.

 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED BUILDING PERMITS PRIOR TO COMMENCING
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED BUILDING PERMITS PRIOR TO COMMENCING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IF DISCREPANCIES EXIST BETWEEN EXISTING SITE CONDITIONS
- 9. ALL CONSTRUCTION SHALL MEET OR EXCEED LOCAL CONTROLLING JURISDICTION.

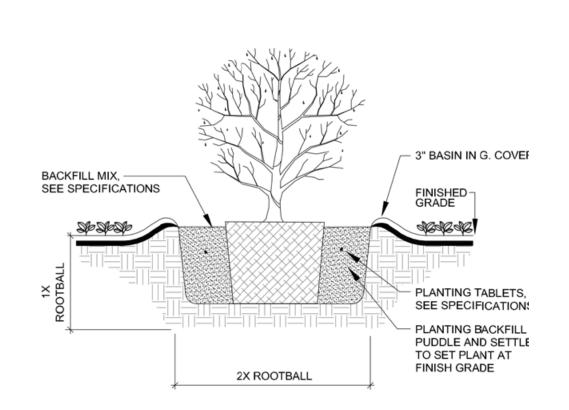
DAMAGE TO ANY UTILITIES OR STRUCTURES CAUSED BY THEIR WORK.

- 10. THE CONTRACTOR SHALL TAKE GREAT CARE TO PROTECT EXISTING SITE AMENITIES DURING THE PROCESS OF CONSTRUCTION.
- 11. THE CONTRACTOR SHALL REMOVE ROCKS 1" DIAMETER AND LARGER FROM WITHIN THE TOP 12" OF THE FINISH GRADE OF THE LANDSCAPE AREAS.
- 12. ALL LANDSCAPE AREAS SHALL RECEIVE A MINIMUM OF 3" MEDIUM GRIND BARK MULCH.
- 13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
- 14. FINAL LOCATION OF ALL PLANT MATERIALS SHALL BE SUBJECT TO APPROVAL OF THE LANDSCAPE ARCHITECT
- 15. SEE DETAILS AND NOTES FOR STAKING METHODS, PLANT PIT DIMENSIONS AND BACKFILL REQUIREMENTS.
- 16. IF CONFLICT ARISES BETWEEN SIZE OF AREAS AND PLANS, CONTRACTOR IS TO CONTACT LANDSCAPE ARCHITECTS FOR RESOLUTION. FAILURE TO MAKE SUCH CONFLICTS KNOWN TO THE LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY TO RELOCATE THE MATERIAL.
- 17. ALL PLANTS SHALL BE TRIANGULARLY SPACED UNLESS OTHERWISE NOTED.
- 18. PRIOR TO DELIVERY CONTRACTOR SHALL SUBMIT PHOTOS OF ALL REPRESENTATIVE PAN MATERIAL WITH SPECIFICATIONS ON PHOTOS INDICATING HEIGHT AND WIDTH. PHOTOS SHALL INCLUDE NAME, ADDRESS AND PHONE NUMBER OF SUPPLIERS. CONTRACTOR WILL INSTALL MATERIAL INFERIOR TO INDUSTRY STANDARDS AT THEIR OWN RISK. ALL PHOTO SUBMITTALS ARE TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- 19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANT MATERIALS FREE OF PESTS OR PLANT DISEASES. IT IS THE CONTRACTOR'S REQUIREMENT TO WARRANTY ALL PLANT MATERIALS. ALL SHRUBS AND GROUND COVERS SHALL BE WARRANTIED FOR A MINIMUM OF 90 DAYS AFTER ACCEPTANCE OF THE PLANTING.
- 20. ALL PLANT MATERIAL SHALL BE DELIVERED WITH LABELS CLEARLY INDICATING THE SPECIES AND VARIETY OF PLANT MATERIAL.
- 21. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT WHEN SHRUBS HAVE BEEN LOCATED ON THE SITE PER PLANTING LAYOUT. LANDSCAPE ARCHITECT SHALL APPROVE FINAL LAYOUT PRIOR TO PLANTING.
- 22. CONTRACTOR SHALL SUBMIT RECEIPTS OF ALL TOPSOIL, AMENDMENTS AND FERTILIZERS FOR LANDSCAPE ARCHITECT
- 23. CONTRACTOR TO PROVIDE RODENT AND PEST CONTROL, REPLACE DAMAGED PLAN MATERIAL AT NO COST TO OWNER.

SOIL MANAGEMENT REPORT

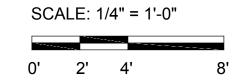
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- 3. SOIL SAMPLING SHALL BE CONDUCTED IN ACCORDANCE WITH LABORATORY PROTOCOL, INCLUDING PROTOCOLS
- REGARDING ADEQUATE SAMPLING DEPTH FOR THE INTENDED PLANTS.
- 4. THE SOIL ANALYSIS SHALL INCLUDE:
- a. SOIL TEXTURE;
- b. INFILTRATION RATE DETERMINED BY LABORATORY TEST OR SOUL TEXTURE INFILTRATION RATE TABLE;
- c. PH;
- d. TOTAL SOLUBLE SALTS;
- e. SODIUM;
- f. PERCENT ORGANIC MATTER; AND
- g. RECOMMENDATIONS.
- 5. THE SOIL MANAGEMENT REPORT SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECTURE PRIOR TO THE INSTALLATION PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
- 6. THE CONTRACTOR SHALL HAVE AN INSPECTION BY THE LANDSCAPE ARCHITECT VERIFYING IMPLEMENTATION OF SOIL
- MANAGEMENT REPORT RECOMMENDATIONS.
 7. CONTRACTOR SHALL MACHINE ROTOTILL AMENDMENTS INTO THE SOIL AT RATES INDICATED PER 1,000 S.F.



ALL PLANT BASINS SHALL RECEIVE A 2" DEEP LAYER OF APPROVED MULCH. INSTALL SHRUB SO THAT TOP PORTION OF ROOT BALL SITS 1/2"-1" ABOVE SURROUNDING GRADE.

SHRUB PLANTING DETAIL





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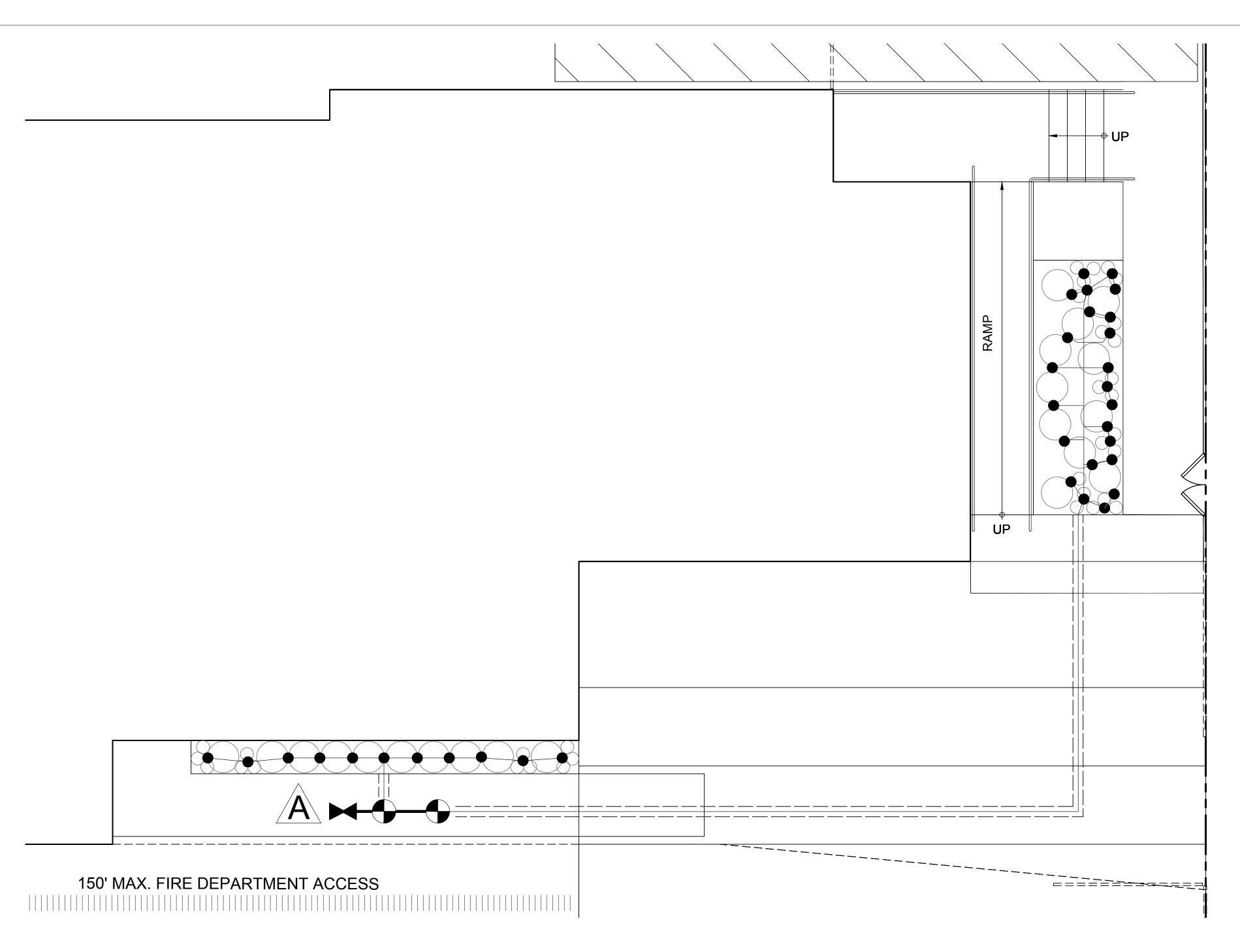
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PLANTING PLAN

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IRRIGATION LEGEND

SYMBOL	MANUFACTURER	MODEL	DESCRIPTION	DETAIL
A	RAINBIRD	ESP-TM2-12OV- (4 STATION 12OVAC)	SMART IRRIGATION CONTROLLER- ADD LNK WIFI AND WIRED BEX RAIN SENSORINSTALL IN EXTERIOR WALL MOUNT CABINET	X/X
	LASCO	101N-LINE SIZE	FULL BLOCK INDUSTRIAL TRUE UNION BALL VALVE	X/X
	RAINBIRD	XAC2-075-PRF	RESIDENTIAL CONTROL ZONE KIT W/ ANTI SIPHON VALVE	X/X
•	RAINBIRD	XBT-20	XERI-BVG EMITTER ON SCH 80 PVC RISER	X/X
		SCH. 40 PVC	NON-PRESSURE LATERAL LINES SCH. 40 PVC-SIZE NOTED ON PLAN	X/X
		SCH. 40 PVC	PRESSURE MAIN LINE - SCH.40 PVC-SIZE NOTED ON PLAN	X/X
			SLEEVE	X/X

PLANTING NOTES

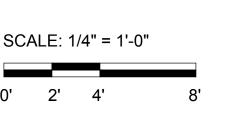
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- CONTRACTOR SHALL SCHEDULE A WALKTHROUGH AT 30-DAY INTERVALS PRIOR TO ACCEPTANCE 5. THE DESIGN SHOWN IS DIAGRAMMATIC. THE CONTRACTOR SHALL REVIEW THE SITE CONDITIONS PRIOR TO BIDDING.
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- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED BUILDING PERMITS PRIOR TO COMMENCING CONSTRUCTION.
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- 7. CONTRACTOR SHALL MACHINE ROTOTILL AMENDMENTS INTO THE SOIL AT RATES INDICATED PER 1,000 S.F.

IRRIGATION NOTES

- 1. IRRIGATION SYSTEM IS BASED ON MINIMUM AND MAXIMUM FLOW DEMAND SHOWN ON IRRIGATION PLANS. VERIFY PERMANENT WATER PRESSURE BEFORE THE START OF CONSTRUCTION. REPORT DIFFERENCES BETWEEN WATER PRESSURE INDICATED ON THE PLAN AND ACTUAL SITE PRESSURE READING AT IRRIGATION POINT OF CONNECTION TO LANDSCAPE ARCHITECT PRIOR TO START OF CONSTRUCTION. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED PRIOR TO START OF CONSTRUCTION, ASSUME FULL RESPONSIBILITY FOR REVISIONS.
- 2. THIS DESIGN IS DIAGRAMMATIC. PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE FOR DESIGN CLARIFICATION ONLY. INSTALL ALL IRRIGATION WITHIN LANDSCAPE AREAS WHERE POSSIBLE.
- 3. FLUSH AND ADJUST THE IRRIGATION SYSTEM FOR OPTIMUM PERFORMANCE.
- 4. DO NOT WILLFULLY INSTALL IRRIGATION SYSTEM AS INDICATED ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT EXISTING OBSTRUCTIONS, GRADE DIFFERENCES IN AREA DIMENSIONS AND OTHER SITE-SPECIFIC INFORMATION THAT MIGHT NOT HAVE BEEN CONSIDERED DURING DESIGN. NOTIFY THE LANDSCAPE ARCHITECT OF SUCH OBSTRUCTIONS OR DIFFERENCES FOR RESOLUTION. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REVISIONS.
- 5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH GRADE DIFFERENCES, WALL/HARDSCAPE LOCATIONS, ETC. COORDINATE WORK FOR THE INSTALLATION OF IRRIGATION PIPE SLEEVES THROUGH WALLS, UNDER PAVEMENT AND STRUCTURES, ETC.
- 6. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF SUFFICIENTLY SIZED SLEEVES FOR CONTROL WIRES AND NON-PRESSURE LATERAL PIPING UNDER PAVED AREAS, IN ADDITION TO CONTROL WARES AND LATERAL LINE PIPING SLEEVES SHOWN ON THE PLANS.
- 7. INSTALL PIPING, RELATED MATERIALS AND EQUIPMENT AS SHOWN ON THE DRAWINGS. USE TEFLON TAPE ON ALL PVC MALE PIPE THREADS, INCLUDING SPRINKLER SWING JOINT AND VALVE ASSEMBLIES. DO NOT USE PIPE DOPE.
- 8. THE ESTABLISHMENT OF AUTOMATIC SEASONAL ADJUSTMENTS AND BASIC CONTROLLER PROGRAMMING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- 9. CONNECT IRRIGATION MAINLINE AND BALL VALVE TO EXTERIOR WATER SOURCE.





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