ELMIRA HIGH SCHOOL

GYMNASIUM ADDITION AND LOCKER ROOM RENOVATIONS 24936 FIR GROVE LANE

FERN RIDGE SCHOOL DISTRICT

BID / PERMIT SET MARCH 3, 2016

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ELMIRA, OR 97437

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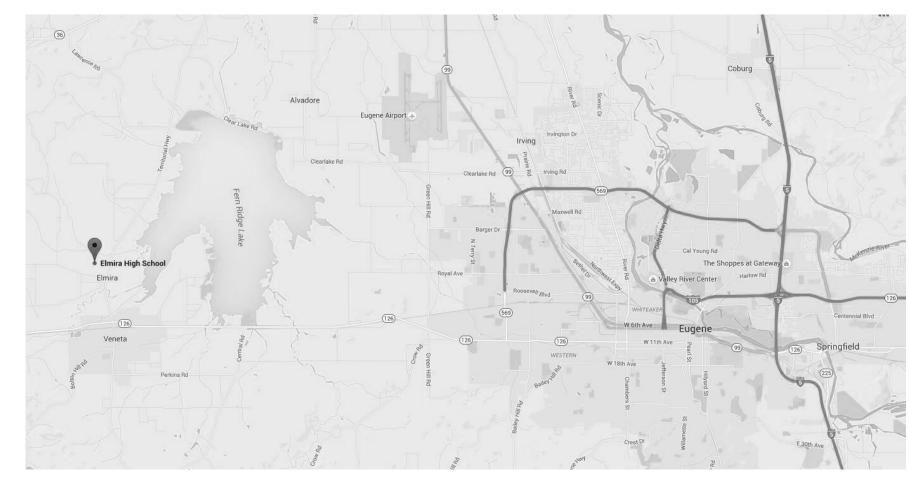
PROJECT SCOPE

ADD A NEW AUXILIARY GYMNASIUM WITHIN EXISTING COURTYARD ON HIGH SCHOOL CAMPUS. ADD LOBBY WITH SNACK BAR AND RESTROOMS TO SERVICE NEW GYMNASIUM TO THE SOUTH. ADD FIRE SPRINKLER SYSTEM TO NEW ADDITION, AS WELL AS TO EXISTING GYMNASIUM BUILDING (ALL SPACES INCLUDING EXISTING LOCKER ROOMS AND UPSTAIRS GYMS). DEMOLISH EXISTING CANOPIES AND CONCRETE WALKWAYS AROUND EXISTING COURTYARD AND REPLACE WITH NEW.

UPGRADE EXISTING GIRLS' LOCKER ROOMS INCLUDING NEW FINISHES, LOCKERS, PLUMBING FIXTURES, LIGHT FIXTURES, AND REVISIONS TO MECHANICAL DUCTWORK FOR NEW TEAM ROOMS.

ALTERNATE #1: EXPANDED LOBBY (WHICH INCLUDES ADDITIONAL AREA SEPARATION FIRE WALL AT GRID C)

VICINITY MAP



DEFERRED SUBMITTALS

- CONCRETE MIXTURE DESIGN
- GROUT DESIGN
- STEEL JOISTS
- SEISMIC BACKING FOR ALL EQUIPMENT THAT EXCEEDS 75 LBS AND IS SUSPENDED GREATER THAN 4 FEET ABOVE THE GROUND (INCLUDES HVAC, PLUMBING, ELECTRICAL, BASKETBALL HOOPS, AND SIMILAR EQUIPMENT)
- FIRE ALARM
- FIRE SUPPRESSION
- PENETRATION FIRESTOPPING
- FIRE RESISTIVE JOINT SYSTEMS
- TELESCOPING BLEACHERS

PROJECT TEAM

OWNER

FERN RIDGE SCHOOL DISTRICT 88834 TERRITORIAL HIGHWAY FLMIRA OR 97437

OWNER'S REPRESENTATIVE

CORNERSTONE MANAGEMENT GROUP, INC. (503) 539-2245 ATTN: EMIL HAMEED

GENERAL CONTRACTOR

TBD VIA BID PROCESS

ARCHITECT

DLR GROUP ARCHITECTS
421 SW 6TH AVE., SUITE 1212
PORTLAND, OR 97204
(503) 274-2675
ATTN: ROBERT ESAU

CIVIL ENGINEER

KPFF CONSULTING ENGINEERS 1201 OAK STREET EUGENE, OR 97401 (541) 684-4902 ATTN: PETE MILLER & ANNA BACKUS

STRUCTURAL ENGINEER

KPFF CONSULTING ENGINEERS 111 SW 5TH AVE, SUITE 2500 PORTLAND, OR 97204 (503) 227-3251 ATTN: JONATHAN ESTABROOK

MECHANICAL ENGINEER

DLR GROUP 51 UNIVERSITY STREET, SUITE 600 SEATTLE, WA 98101 (206) 461-6000 ATTN: CHRIS NARRAMORE

ELECTRICAL ENGINEER

DLR GROUP 51 UNIVERSITY STREET, SUITE 600 SEATTLE, WA 98101 (206) 461-6000 ATTN: DAVID GIAMALIS

GEOTECHNICAL ENGINEER

K & A ENGINEERING, INC 91051 S WILLAMETTE ST COBURG, OR 97408 (541) 684-9399 ATTN: MICHAEL REMBOLDT

SURVEYOR

GOEBEL ENGINEERING & SURVEYING, INC. 25469 HWY 126 VENETA, OR 97487 (541) 687-0542 ATTN: SCOTT GOEBEL

HAZMAT CONSULTANT

PBS ENGINEERING & ENVIRONMENTAL 2645 WILLAMETTE STREET #A EUGENE, OR 97405 (541) 686-8684 ATTN: JEFF HEEREN & JACK BURGESS

SHEET ON WHICH DRAWN GRAVEL/BALLAST SIMILAR OR TYPICAL REFERENCE **DETAIL OR WALL SECTION** SIMILAR OR TYPICAL REFERENCE PRECAST CONCRETE **DETAIL REFERENCE** SIMILAR OR TYPICAL REFERENCE GYM FLOOR **BUILDING SECTION** WOOD (CONTINUOUS BLOCKING) WOOD (NON-CONTINUOS BLOCKING) **BUILDING ELEVATION** WOOD INTERIOR ELEVATION (TRIM/FINISH) GLASS ?/? CASEWORK ELEVATION STONE **SHINGLES** ? LEGEND/KEY NOTE **CONCRETE MASONRY UNIT BRICK VENEER COLUMN LINE METAL STUDS** ROOM NAME STEEL (LARGE SCALE) ??? **ROOM NUMBER** PLYWOOD (LARGE SCALE) (?)GYPSUM WALL BOARD DOOR NUMBER (LARGE SCALE) BATT INSULATION < ??? > WINDOW NUMBER RIGID INSULATION ? WALL TYPE PROTECTION BOARD ? CARPET (LARGE SCALE) **ROOF TYPE ACOUSTICAL TILE (LARGE SCALE)** DESCRIPTION **REVISION NUMBER**

- UNLESS NOTED OTHERWISE.
- (CJA) WHERE SHOWN ON THE DRAWINGS. SEE A10 SERIES DISSIMILAR WALL OR PARTITION OR OTHER VERTICAL PENETRATION.

- WITH ALL OTHER REQUIREMENTS (SEE NOTES 14 AND 19)
- EXTINGUISHER CABINET (FEC) LOCATIONS.
- ALL WALL PENETRATIONS AT RATED WALL LOCATIONS REQUIRED FOR PIPES, CONDUIT, DUCTING ETC. SHALL BE SEALED TO STOP PASSAGE OF FIRE AND / OR SMOKE WITH FIRE SAFING AND APPROVED FIRESTOPPING SEALANT PER DETAILS ON CODE SHEETS.
- EQUIPMENT AS REQUIRED.

TILE (LARGE SCALE)

GENERAL SYMBOLS

??? 🗴

DETAIL NUMBER

CROSS REFERENCE

EARTH

- **GENERAL NOTES**
- GENERAL NOTES APPLY TO ALL DRAWINGS ALL DIMENSIONS ARE ACTUAL AND ARE TO FACE OF METAL STUDS, FACE OF MASONRY OR CENTERLINE OF COLUMN,
- GENERAL CONTRACTOR SHALL FURNISH AND INSTALL 2" X 10" CONTINUOUS WOOD BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF WALL ATTACHED ITEMS, INCLUDING BUT NOT LIMITED TO, THE FOLLOWING: GRAB BARS, VANITY UNITS, TOILET ACCESSORIES, WALL CABINETS, WALL MOUNTED FIXTURES, MARKER BOARDS, TACK BOARDS
- GENERAL CONTRACTOR SHALL COORDINATE ALL MECHANICAL CHASE SIZES WITH MECHANICAL SUBCONTRACTOR.
- WALL OPENINGS FOR FIRE DAMPERS SHALL BE FRAMED PER THE FIRE DAMPER MANUFACTURER'S RECOMMENDATIONS.
- GENERAL CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF 4" HIGH CONCRETE HOUSEKEEPING PADS WITH THE MECHANICAL AND ELECTRICAL EQUIPMENT SUPPLIERS.
- LOCATE CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE DETAILS AND STRUCTURAL DRAWINGS. ISOLATE GYPSUM **BOARD SURFACES WITH CONTROL JOINTS WHERE:** A) CEILING ABUTS A STRUCTURAL ELEMENT,
- B) CONSTRUCTION CHANGES WITHIN PLANES OF THE
- C) CEILING RUN EXCEEDS 30 LINEAL FEET. D) CONTROL JOINTS OCCUR IN STRUCTURAL ELEMENTS OF THE BUILDING.
- E) PARTITION OR FURRING RUN EXCEEDING 30 L.F. 8. ELECTRICAL PLANS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, CONDUIT, WIRING, EQUIPMENT SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING AND EXISTING CONDITION. LOCATION OF THESE ITEMS MAY BE ADJUSTED CONDITIONAL UPON THE SATISFACTORY COMPLIANCE
- SEE PLANS FOR FIRE EXTINGUISHER (FE) AND FIRE
- 10. SEE SHEET CP1.1 FOR LOCATIONS OF FIRE RATED WALLS WHERE APPLICABLE.
- 12. THE GENERAL CONTRACTOR SHALL COORDINATE CUT-OUTS FOR CASEWORK, MILLWORK, OR OTHER

- WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. THE PREMISES SHALL BE KEPT CLEAN AND FREE FROM ALL
- WASTE MATERIALS. 17. GENERAL CONTRACTOR SHALL PROTECT NEW CONSTRUCTION FROM DAMAGE BY ALL TRADES. ALL SUCH DAMAGE CAUSED BY THE CONTRACTOR DURING THE COURSE OF THIS WORK SHALL BE REPAIRED OR

14. ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY

15. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE

16. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS

PROJECT. THE REMOVAL AND DISPOSAL OF ALL

ARE RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL

OF ALL DEBRIS GENERATED BY CONSTRUCTION OF THIS

CONSTRUCTION DEBRIS SHALL BE IN FULL COMPLIANCE

AND INDICATED IN THE CONTRACTORS BID.

USED ON THIS PROJECT.

MENTIONED, BUT WHICH ARE NECESSARY TO MAKE A

COMPLETE WORKING INSTALLATION, SHALL BE INCLUDED,

- REPLACED AT THE CONTRACTORS EXPENSE. 18. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND FIELD
- CONDITIONS PRIOR TO ORDERING OR INSTALLING MATERIALS OR EQUIPMENT. 19. ALL PIPING AND CONDUITS SHALL BE CONCEALED WITHIN WALLS, UNDERGROUND, ABOVE CEILINGS OR IN ARCHITECT APPROVED UTILITY SPACES IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. EXPOSED ITEMS MUST BE LOCATED IN AREAS APPROVED BY THE ARCHITECT. EXPOSED ITEMS SHALL BE INSTALLED AND FINISHED TO PROVIDE MINIMAL VISUAL IMPACT. ALL EXPOSED ITEMS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACES UNLESS SCHEDULED FOR AN ACCENT COLOR.
- 20. FLOOR SPOT ELEVATIONS ARE SHOWN THUS: 0' 0" 21. ARCHITECTURAL FINISH FLOOR ELEVATIONS 0' - 0"
- EQUALS ACTUAL SITE REFERENCE OF FINISH FLOOR: 22. PLAN SYMBOL INDICATES WALL TYPE - SEE SHEET A0.1
- FOR DESCRIPTION OF WALL TYPES 23. SCRIBE GYPSUM BOARD OF WALLS AND PARTITIONS TO
- IRREGULARITIES OF STRUCTURE AND ROOF DECK ABOVE. 24. PROVISIONS SHALL BE MADE AT FULL HEIGHT NON-BEARING WALLS FOR 2- INCH VERTICAL MOVEMENT OF THE BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH FIRE SAFING INSULATION OR FIRE STOPPING MATERIALS AS

REQUIRED TO MEET FIRE RATING OF RESPECTIVE

DETAILS ON CODE RATING DETAIL SHEETS.

WALLS. FILL AT SMOKE PARTITIONS WITH MATERIALS

CAPABLE OF RESISTING THE PASSAGE OF SMOKE. SEE





AAV

ACC

AD

ADJ

ΑV

AW

BD

BET

BFP

BFR

BV



FACE BRICK

FCO

FCU

FD

FDC

FDN

FDR

FEC

FFE

FHC

FIG

FIN

FIX

FLG

FLM

FM

FM

FO

FOC

FOF

FOF

FOM

FOR

FOS

FOS

FOW

FPD

FR

FR

FS

FRP

FSD

FSS

FTG

FUT

FWC

GAL

GALV

GCO

GEN

GEN

GFA

GMU GND

GOVT

GPH

GPM

GR

GR

GR

GRC

GRS

GS

GW

HB

HC

HCB

HCR

HCS

HD

HEV

HOA

HPR

HPS

HPS

HS

HSS

HTG

HTR

HVAC

HWR

HWS

HX

GWB

GD

FME

FOOT CANDLE

FAN COIL UNIT

FIRE DAMPER

FLOOR DRAIN

FOUNDATION

FINISH FLOOR

FIRE HYDRANT

FIRE HOSE CABINET

FULL LENGTH MIRROR

FLOW MEASURING EQUIPMENT

FACTORY MUTUAL

FINISH OPENING

FACE OF FINISH

FACE OF MASONRY

FUEL OIL RETURN

FUEL OIL FILL

FACE OF STUD

FUEL OIL VENT

FACE OF WALL

FIREPROOFING

FEET PER MINUTE

FIRE RESISTIVE

FLOOR SINK

FLOW SWITCH

FEET (FOOT)

FIN TURE

FOOTING

FIELD VERIFY

NATURAL GAS

FUTURE

GRILLE

GAUGE

GALLON

GALVANIZED

GRAB BAR

GENERAL

GENERATOR

FIRE/SMOKE DAMPER

FLOW TRANSMITTER

FABRIC WALL COVERING

GENERAL CONTRACTOR

GCMU GLAZED CONCRETE MASONRY UNIT

GROUND FAULT INTERRUPTER

GLYCOL-WATER HEATING RETURN

GLYCOL-WATER HEATING SUPPLY

GFRC GLASS FIBER REINFORCED CONCRETE

GRADE CLEAN OUT

GARBAGE DISPOSAL

GROSS FLOOR AREA

GALVANIZED IRON

GLASS MASONRY UNIT

GALLONS PER HOUR

GALLONS PER MINUTE

GALVANIZED RIGID CONDUIT

GALVANIZED RIGID STEEL

GYPSUM WALL BOARD

GLASS REINFORCED CONCRETE

GRGP GLASS REINFORCED GYPSUM PLASTER

GLUE LAMINATED

GI ASS

GROUND

GOVERNMENT

GUARD RAIL

GRADE

GRILLE

GASOLINE

GYPSUM

HEIGHT

HOSE BIB

HDBD HARDBOARD

HDWD HARDWOOD

HDWR HARDWARE

HORIZ HORIZONTAL

HDR HEADER

HANDICAP

GATE VALVE

GREASE WASTE

HOOK ONE END

HOLLOW CORE

HANDICAP BENCE

HOSE END VALVE

HAND OFF AUTOMATIC

HOLLOW METAI

HEAT PUMP

HANDRAIL

HEADSTUD

HOUR

HSTR HIGH STRENGTH

HEIGHT

HEATING

HEATER

HUM HUMIDIFIER

HIGH PRESSURE

HORSEPOWER

HOT / CHILLED WATER RETURN

HAND DRYER OR HAIR DRYER

HOT / CHILLED WATER SUPPLY

HIGH INTENSITY DISCHARGE

HIGH PRESSURE STEAM RETURN

HIGH PRESSURE STEAM SUPPLY

HOLLOW STRUCTURAL SECTION

HIGH PRESSURE SODIUM

HTWR HIGH TEMP HOT WATER RETURN

HEATING VENTILATING UNIT

HEATING VENTILATING AND AIR CONDITIONING

DOMESTIC HOT WATER RECIRCULATING

LOW TEMP HOT WATER RETURN

LOW TEMP HOT WATER SUPPLY

HTWS HIGH TEMP HOT WATER SUPPLY

DOMESTIC HOT WATER

HEAT EXCHANGER

HERTZ

FOLDING SHOWER SEAT

FIRE PUMP DISCHARGE

FIBERGLASS REINFORCED PANEL

FUEL OIL SUPPLY

FACE OF CONCRETE

FIRE EXTINGUISHER

FEEDER

FIGURE

FINISH

FIXTURE

FLOOR

FLUOR FLUORESCENT

FI OORING

FIRE MAIN

FACE OF

FLASH FLASHING

FLEX FLEXIBLE

FLOOR CLEAN OUT

FLUTED CONCRETE MASONRY UNIT

FIRE DEPARTMENT CONNECTION

FIRE EXTINGUISHER CABINET

FINISH FLOOR ELEVATION

CORROSION RESISTANT

COMBINATION SEWER

CONDENSER WATER SUPPLY

COMBINATION STANDPIPE

CONSTRUCTION JOINT

CURRENT TRANSFORMER

CALCIUM SILICATE MASONRY UNIT

COUNTERSINK

COUNTERSUNK

CASEWORK

CERAMIC TILE

CENTER

COPPER

CUBIC

COOLING TOWER

CONDENSING UNIT

COMBINATION UNIT

CONDOM VENDOR

COLD WATER

CUBIC YARD

CYLINDER

DRAIN

DEPTH

DATA

DRY BULB

DECIBEL

DOUBLE

DEGREE

CABINET UNIT HEATER

CHILLED WATER RETURN

DEFORMED BAR ANCHOR

DIRECT CURRENT

DUST COLLECTOR

DUMMY CONTROL JOINT

DIRECT DIGITAL CONTROL

PENNY (AS NAIL 10D)

DEIONIZED WATER

DEPRESS(ION)(ED)

DRINKING FOUNTAIN

DIESEL FUEL SUPPLY

DIESEL FUEL VENT

DOOR GRILLE

DUCT HEATER

DUCTILE IRON

DIAMETER

DIAGONAL

DIFFUSER

DISC DISCONNECT

DIMENSION

DISCHARGE

DEAD LOAD

DAMPER

DOWN

DOOR

DRAIN

DETAIL

DO OR " DITTO

DISTRIBUTION

DAMPER MOTOR

DAMPPROOFING

DOWNSPOUT

DRY STANDPIPE

DUCT THRU ROOF

DOUBLE EXTRA STRONG

ENTERING AIR TEMPERATURE

ELECTRICAL CONTRACTOR

ENERGY EFFICIENCY RATIO

EMERGENCY EYEWASH/SHOWER

ESTIMATED MAXIMUM DEMAND

ELECTRICAL METALLIC TUBING

EMERGENCY MIXING VALVE

EXTERIOR INSULATION AND FINISH SYSTEM

ELECTRIC DUCT HEATER

EMERGENCY EYEWASH

ELECTRICAL HEATER

EXPANSION JOINT

DISHWASHER

DRAWING

DOWEL

DRAWFR

EAST

EACH

EXHAUST AIR

FACH FND

EACH FACE

EXHAUST FAN

EFFICIENCY

ELEVATION

ELASTOMERIC

ELECTRIC(AL)

ELEVATOR

ENCLOSURE

ENTRANCE

EQUAL

EQUIPMENT

ESTIMATE

EACH WAY

FXCAVATE

EXHAUST

EXISTING

EXPOSED

EXPANSION

EXPLOSION

FAHRENHEI1

FIRELINE

FURNACE

FIRE ALARM

FRESH AIR

FABRICATED

EXTERIOR

END OF MAIN DRIP

EXPLOSION PROOF

EXHAUST REGISTER

EXTRA STRONG

EXPANSION TANK

EMERGENCY SHOWER

EXTERNAL STATIC PRESSURE

ELECTRIC WATER COOLER

ELECTRIC WATER HEATER

ENTERING WATER TEMPERATURE

ELECTRO-PNEUMATIC

EMERGENCY POWER OFF

EPOXY RESIN FLOORING

EMER EMERGENCY

EXPANSION BOLT

DOWNSPOUT NOZZLE

DIFFERENTIAL PRESSURE SWITCH

DISC SW DISCONNECT SWITCH

DISTILLED WATER

DIESEL FUEL RETURN

DEPARTMENT

DETENTION

CHILLED WATER SUPPLY

CS

CSK

CSP

CSTJ

CSWK

CT

CT

CTR

CW

CWS

CYL

DB

DBA

DEG

DEPR

DEPT

DET

DFS

DIAG

DIFF

DIM

DISCH

DISTR

DMPR

DPFG

DN

DN

DSP

DTL

DTR

DWG

DWL

DWR

EDH

EEWS

ELAS

ELEC

EMT

EMV

ENCL

ENTR

EOMD

EPO

EQ

ESP

EST

EWC

FWH

EWT

EXC

EXH

EXP

EXP

EXPL

EXIST

EQUIP

ELEV

CY

CSMU

INDOOR AIR QUALITY

INTERCOM

INSIDE DIAMETER

INSIDE FACE

INTAKE HOOD

IN JOIST SPACE

INCLUDE (ING)

INDIRECT WASTI

JUNCTION BOX

KNOCKDOWN

KITCHEN

KNOCKOUT

KILOVOLT

KILOWATT

ANGLE

LAVATORY

LABORATORY

LAMINATE(D)

LAVATORY

POUND

LUMBER

POUNDS

LOADING

LINEAR

LINOLEUM

LOCKER

LIVE LOAD

LOCATION

LONGITUDINAL

LIQUID OXYGEN

LIVING ROOM

LIGHTING

LONG WAY

THOUSAND

MIXED AIR

MACHINE

MAGNETIC

MANUAL

MASONRY

MATERIAL

MAXIMUM

MOP BASIN

MECHANICAL

MEZZANINE

MANHOLE

MINIMUM

MOLDING

MILLWORK

MIRROR

MOUNTED

MOUNTING

MULLION

MERCURY VAPOR

MARKER WALL

NITROUS OXIDE

NOT APPLICABLE

NITROGEN

NORTH

MEDICAL VACUUM

METAL

METAL HALIDE

MOP HOLDER

MISCELLANEOUS

MAIN LUGS ONLY

MOTORIZED LOUVER

MASONRY OPENING

MIRROR WITH SHELF

MAGNETIC STARTER

MTWR MEDIUM TEMP HOT WATER RETURN

MEDIUM TEMP HOT WATER SUPPLY

MEDIUM PRESSURE GAS

MEDIUM PRESSURE STEAM RETURN

MEDIUM PRESSURE STEAM SUPPLY

MANUFACTURE

MANUFACTURING

MOTOR GENERATOR

MEMB MEMBRANE

METAL

MAINTENANCE

MAKEUP AIR UNIT

MANUAL AIR VENT

MACHINE BOLT

MARKER BOARD

MEDICINE CABINET

THOUSAND BTU PER HOUR

THOUSAND BTU PER HOUR

MECHANICAL CONTRACTOR

THOUSAND CIRCULAR MILLS

MANUAL VOLUME DAMPER

MEDIUM DENSITY OVERLAY

MINIMUM CIRCUIT AMPS

MAIN CIRCUIT BREAKER

LOUVER

LAWN SPRINKLER

LIFE SAFETY CODE

LINED TRANSFER DUCT

LABORATORY VACUUM

LEAVING WATER TEMPERATURE

MEDICAL COMPRESSED AIR

LINEAR FOOT (FEET)

LONG LEG HORIZONTAL

LIQUEFIED PETROLEUM GAS

LOW PRESSURE STEAM RETURN

LOW PRESSURE STEAM SUPPLY

LONG LEG VERTICAL

LENGTH (LONG)

KILOWATT HOUR

KITCHEN SINK

KILOVOLT AMPERES

KITCHEN HOOD

JOINT FILLER BOARD

KEYED CONSTRUCTION JOINT

KEENE'S CEMENT PLASTER

KITCHEN HOOD EXHAUST FAN

KITCHEN HOOD SUPPLY FAN

KILOVOLT AMPERES REACTIVE

LABORATORY COMPRESSED AIR

LEAVING AIR TEMPERATURE

INSULATION

INTERIOR

IRON PIPE

JANITOR

JUNCTION

JOIST

JOINT

JCT

JST

JFB

KCJ

KVA

KVAR

KW

KWH

LAB

LAM

LAV

LBR

LBS

LDG

LIN

LKR

LLH

LLV

LOC

LONG

LOX

LPG

LPR

LPS

LSC

LTD

LTG

LWT

MAC

MAG

MAINT

MAN

MAS

MATL

MAU

MAX

MBH

MCB

MCM

MDO

MET

MEZZ

MFR

MFRG

MISC

MLDG

MLO

MPS

MR/S

MTD

MTG

MTL

MTWS

MLWK

MECH

MBTUH

LB

INCH

INVERT ELEVATION

ISOLATED GROUND

ISOLATION JOINT

IN ACCORDANCE WITH

INTERNATIONAL BUILDING CODE

INTERMEDIATE METAL CONDUIT

ILLUMINATING ENGINEERING SOCIETY

NOISE CRITERIA

NURSE CALL

NEUT NEUTRAL

NTS

OA

OA

OBSC

OVFL

OFF

OFOI

OHP

OPG

OPP

OSD

OS&Y

OX

PAN B

PCF

PDI

PENT

PERP

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NITROUS OXIDE

NOT TO SCALE

OVERALL

OBSCURE

ON CENTER

OUTSIDE DIAMETER

OVERFLOW DRAIN

OVERHEAD POWER

OVERHEAD TELEPHONE

OVERFLOW STORM DRAIN

OUTSIDE SCREW AND YOKE

OUTSIDE FACE

OVERFLOW

OFFICE

OPENING

OPPOSITE

OVHD OVERHEAD

OXYGEN

PAINT

PLIMP

POLE

OTCS OPEN TO CEILING SPACE

PUBLIC ADDRESS

PARTICLE BOARD

PUSH BUTTON STATION

PUMPED CONDENSATE

PRESSURE DROP

PUMP DISCHARGE

PENTHOUSE

PERPENDICULAR

POWER FACTOR

PRESSURE GAGE

POINT OF INTERSECTION

PRESSURE INDICATOR

POST INDICATOR VALVE

PERF PERFORATED

PHASE

PLACE(S)

PLAM;PL PLASTIC LAMINATE

PLATE

PLAS PLASTER

PLBG PLUMBING

PLYWD PLYWOOD

PNEU PNEUMATIC

PORC PORCELAIN

PAIR

PROJ PROJECTION

PR

PSI

PT

PSV

PTN

PVC

PWR POWER

QT QUARRY TILE

QTR RND QUARTER ROUND

RETURN AIR

RUBBER BASE

ROOF DRAIN

REFERENCE

REFLECTED

RETAINING (WALL)

REVISIONS

RETURN FAN

RUBBER FLOOR

RELIEF HOOD

REHEAT COIL

ROBE HOOK

ROOM

ROUND

RO ROUGH OPENING

RECESSED FLOOR MAT

REFRIGERANT HOT GAS

RISE IN JOIST SPACE

REFRIGERANT LIQUID

ROUGH IN AND CONNECT

RELATIVE HUMIDITY

RECP RECEPTACLE

REFR REFRIGERANT

REG REGISTER

REM REMOVABLE

REQ(D) REQUIRE(D)

RESIL RESILIENT

REFR REFRIGERATOR

REINF REINFORCEMENT

REMOVE CONTROL

REFLECTED CEILING PLAN

REINFORCED CONCRETE PIPE

REFRIGERANT DISCHARGE

RECIPROCATING CHILLER JOINT

RADIATOR

RAD or R RADIUS

RCU

REFL

RM

RND

RD

RISER

PANFI

POC POINT OF CONNECTION

PIPE SUPPORT

PLASTER TRAP

POINT

PARTITION

PWL SOUND POWER LEVEL

PROJECTION SCREEN

PRESSURE REDUCING VALVE

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRESSURE SAFETY VALVE

POTENTIAL TRANSFORMER

PTD/R COMBINATION TOWEL DISPENSER/RECEPTACLE

POINT OF VERTICAL INTERSECTION

PAPER TOWEL DISPENSER

POLYVINYL CHLORIDE

PVT POINT OF VERTICAL TANGENCY

PPM PARTS PER MILLION

PREFAB PREFABRICATED

PAPER CUP DISPENSER

POUNDS PER CUBIC FOOT

PORCELAIN CERAMIC TILE

PLUMBING & DRAINAGE INSTITUTE

PORTABLE INSTRUMENT CONNECTION

PANIC BOLT

PARALLEL

PULL BOX

PRFCAST

PUSH BUTTON

OUTSIDE AIR

NEUTRAL SENSOR

O&M OPERATION AND MAINTENANCE

NUMBER

NOMINAL

O to O OUT TO OUT

NATIONAL ELECTRIC CODE

NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSN.

OWNER FURNISHED CONTRACTOR INSTALLED

OWNER FURNISHED OWNER INSTALLED

PRESSURE/TEMPERATURE TEST PORT

REVOLUTIONS PER MINUTE

REFRIGERANT SUCTION

SANITARY SEWER

SPRINKLER LINE

SUPPLY AIR

SOLID CORE

SECURITY

SCHED SCHEDULE

SCUTTLE

SCD

SCH

SCR

SCT

SCUT

SCW

SEC

SECT

SECY

SENS

SFU

SGL

SHM SHT

SIM

SLNT

SPK

SPL

SPL

STD

STE

STL

STR

SUB

SUSP

SW

T& G

TEL

TEMP

TERR

TEXT

TGL

TMR

TOB

TOC

TOF

TOIL

TOP

TOS

TOW

TPV

TR

TRD

TTD

TW

TYP

SWBD

STGR

SHOCK ABSORBER

SANITARY WASTE

SHOWER CURTAIN

SPECIAL COATING

SEAT COVER DISPENSE

SHOWER CURTAIN ROD

SOFT COLD WATER

SOAP DISPENSER

SMOKE DETECTOR

STEAM EXHAUST VENT

SFCMU SPLIT-FACED CONCRETE MASONRY UNIT

STRUCTURAL FACING UNIT

SECURITY HOLLOW METAL

SANITARY NAPKIN DISPOSAL

SANITARY NAPKIN VENDOR

STATIC PRESSURE (H2O)

SOUND PRESSURE LEVEL

SMOKE DAMPER

STORM DRAIN

SECONDARY

SECRETARY

SQUARE FOOT

SUPPLY FAN

SECTION

SENSIBLE

SINGLE

SHEATH SHEATHING

SHFFT

SHWSOFT HOT WATER

SIMII AR

SHORT LEG

SHEET METAL

STAND PIPE

SPRINKLER

SPECIAL

SQUARE

SPL BLK SPLASH BLOCK

STAG'D STAGGERED

STATIC PRESSURE

SPECIFICATIONS

STAINLESS STEEL

SERVICE SINK

SOLID SURFACE

STORM SEWER

STANDARD

STRINGER

SUBSTATION

SUSPENDED

SHEET VINYL

SHORT WAY

TEMPERED

THERMOSTAT

TRANSFER AIR

TERMINAL BOX

TANGENT

TOWEL BAR

TACK BOARD

TIME CLOCK

TRANSFER DUC

TRENCH DRAIN

TEMPERATURE

TELEPHONE

TFRRA770

TEXTURED

THRESHOLD

TOWEL HOOK

THICK(NESS)

TOP OF BEAM

TOII FT

TRIP

TRANS TRANSVERSE

TREAD

TILT MIRROR UNIT

TOP OF CONCRETE

TOP OF FOOTING

TOP OF PAVING

TOP OF STEEL

TOP OF WALL

TRAP PRIMER

TERRAZZO TILE

TELEVISION

UNIT COOLER

TACK WALL

TYPICAL

URINAI

UG UNDERGROUND

TEMPERATURE SENSOR

TOTAL STATIC PRESSURE

TOILET TISSUE DISPENSER

TEMPERATURE TRANSMITTER

THERMOSTATIC MIXING VALVE

TOGGLE

TONGUE & GROOVE

TEST AND BALANCE

TEMPERATURE CONTROL

TOTAL DYNAMIC HEAD

TEMPERED - TEMPORARY

TOP & BOTTOM

SWITCH BOARD

SWITCH

SYM SYMMETRICAL

SOLENOID VALVE

STEEL

STOR STORAGE

SUBFL SUBFLOOR

SURF SURFACE

STORM SHELTER AREA

SOUND TRANSMISSION CLASS

STRUCTURAL - STRUCTURE

STEAM WORKING PRESSURE

SINGLE TAPERED END

SPRINKI FR MAIN

SEALANT

SHOWER

STRUCTURAL CLAY TILE

SHOWER CURTAIN HOOKS

SOAP DISH

SOUTH

RAIN WATER I FADERS SENSOR

REDUCED PRESSURE BACKFLOW PREVENTER

UNDERGROUND ELECTRICAL

UNIT HEATER

UNEXCAVATED

UTILITY SHELF

UNIT VENTILATOR

VARIABLE AIR VOLUME

VAPOR BARRIER

VENT BELOW FLOOR

VENTED COVE BASE

VITRIFIED CLAY PIPE

VINYL COMPOSITION TILE

VOLUME DAMPER - MANUAL

VARIABLE FREQUENCY DRIVE

VARIABLE SPEED MOTOR CONTROLLER

VINYL BASE

VELOCITY

VENTILATION

VENTILATOR

VERTICAL

VESTIBULE

VINYL FLOOR

VOLTMETER

VENEER PLASTER

VENT THROUGH ROOF

VINYL WALLCOVERING

WATER SERVICE

WIDE; WIDTH

WIDE FLANGE

WALL COVERING

WATER COLUMN

WATER CLOSET

WALL CLEAN OUT

WASH FOUNTAIN

WALL HYDRANT

WATER HEATER

WATT HOUR METER

WROUGHT IRON

WMG WATER MOTOR GONG

WEATHERPROOF

WATERPROOF

WHIRLPOOL BATH

WATERPROOFING

WET STAND PIPE

WARM WHITE

TRANSFORMER

TRANSMITTER

YARD HYDRANT

ZONE VALVE BOX

IMPEDANCE

AND

THAT IS

NUMBER

ARE USED WITH GLAZING:

THE FOLLOWING ABBREVIATIONS

CLEAR FLOAT GLASS

LAMINATED GLASS

SPANDREL GLASS

TINTED FLOAT GLASS

POLISHED WIRE GLASS

PATTERN GLASS

CLEAR INSULATING GLASS

PATTERN INSULATING GLASS

TINTED INSULATING GLASS

TINTED TEMPERED FLOAT GLASS

TINTED TEMPERED INSULATING GLASS

CLEAR TEMPERED FLOAT GLASS

CLEAR TEMPERED INSULATING GLASS

WEIGHT

WATER RESISTANT

WASTE RECEPTACLE

WELDED WIRE FABRIC

ZONE CONTROL VALVE

WNSCT WAINSCOT

WATER LOOP RETURN

WATER LOOP SUPPLY

WOOD

WINDOW

WATER COOLED CONDENSER

WATER FLOW MEASURING DEVICE

WATER CLOSET/LAVATORY COMBINATION

WATT

WEST

WITH

WITHOUT

WET BULB

WASTE (PLUG)

VACUUM PUMP

VINYL TILE

VOLUME

UTILITY

VENT

VOLT

VACUUM

VALVE

VACUUM

UNFINISHED

UNDERGROUND TELEPHONE

UNLESS NOTED OTHERWISE

UNDERWRITERS LABORATORIES

UNDERGROUND RESIDENTIAL DISTRIBUTION

UGE

UNEX

UNFIN

URD

UTIL

VAC

VAV

VBF

VCB

VCP

VEL

VENT

VENT

VERT

VEST

VFD

VSMC

VTR

WB

WCC

WCO

WDW

WFMD

WLS

WSP

XFMR

XMTR

ZVB

CTG

TTIG

CTIG

WCL

WD

VWC

UGT

A AMP AMPERE COMPRESSED AIR AREA ALARM PANEL AUTOMATIC AIR VENT ANCHOR BOLT ACOUSTICAL CEILING ALTERNATING CURRENT

ACRYLONITRILE-BUTADIENE-STYRENE AIR COOLED CONDENSER ACCU AIR COOLED CONDENSING UNIT ACM ALUMINUM COMPOSITE MATERIAL ACST ACOUSTIC ACCESS DOOR AD AREA DRAIN ADDN ADDITION OR ADDITIONAL ADJUSTABI F

ADJT ADJACENT ADMIN ADMINISTRATION AIR FILTER ABOVE FINISH FLOOR AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT

AREA INLET

ALT ALTERNATE ALUM ALUMINUM AMB AMBIENT ANCH ANCHOR ACCESS PANEL APC ACOUSTICAL PANEL CEILING APPROX APPROXIMATE AR ACID RESISTING ARCH ARCHITECTURAL ASB ASBESTOS ASPH ASPHALT AUTO AUTOMATIC ACID VENT AIR VENT

AVERAGE ACID WASTE AWG AMERICAN WIRE GAUGE AWP ACOUSTICAL WALL PANEL B to B BACK TO BACK BOILER BLOW OFF BALANCING COCK

BCMU BURNISHED CONCRETE MASONRY UNIT

BOARD BACK DRAFT DAMPER BETWEEN BACKFLOW PREVENTOR BELOW FLOOR **BOILER FEED BUTTERFLY VALVE** BREAK HORSE POWER BREAKER BUILDING LINE

BFV BHP BKR BLDG BUILDING BLK BLOCK BLKG BLOCKING BLKHD BULKHEAD BFAM BM BENCH MARK BOD BOTTOM OF DUCT BOTTOM OF FOOTING BOF BOTT BOTTOM

BRDG BRIDGING BRG BEARING BRKT BRACKET BATH TUB BTU

BUR BUILT UP ROOFING BALL VALVE

BRITISH THERMAL UNIT CONDENSER WATER

BTUH BRITISH THERMAL UNIT PER HOUR CONDUIT COMBUSTION AIR

CAB CABINET CANT CANTILEVER CAP CAPACITY CAS CASING CBD CHALKBOARD CONDENSATE DRAIN CCTV CLOSED CIRCUIT TELEVISION

COVER ELEVATION CEM CEMENT CENT CENTRIFUGAL CER CERAMIC CUBIC FEET

CHANNEL CAST IRON

CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CG CORNER GUARD **CURB INLET** CAST IN PLACE CAST IRON PIPE CIRCULATING

CI CIP CIRC CONTROL JOIN CONTROL JOINT ABOVE CKT CIRCUIT CKT BK CIRCUIT BREAKER CENTERLINE CIRCUIT LINE

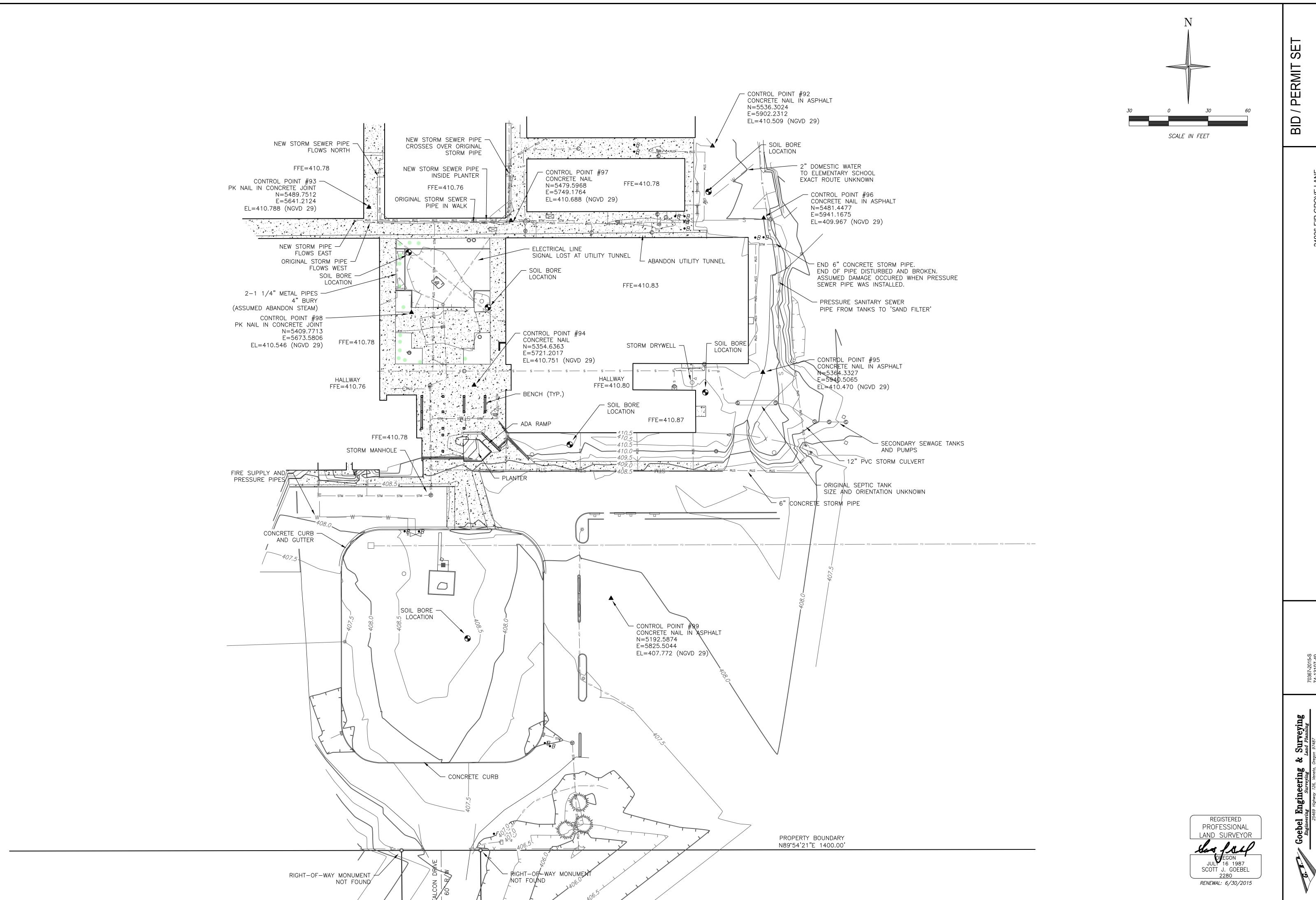
CL CLG CEILING CLOS CLOSET CLR CLEAR CEILING MOUNTED CORRUGATED METAL PIPE CMU CONCRETE MASONRY UNI CO CLEAN OUT CONDUIT ONLY CO2 CARBON DIOXIDE COL COLUMN COM COMMON

COMB COMBINATION COMM COMMUNICATIONS COMP COMPOSITE COMP COMPRESSOR UNIT COMPR COMPRESSIBLE CONC CONCRETE CONF CONFERENCE CONFIG CONFIGURATION CONN CONNECT CONN CONNECTION

CPT

CONTR CONTRACTOR OR CONTRACT CONDENSER PUMP COVER PLATE

CONST CONSTRUCTION CONT CONTINUOUS CONV CONVECTOR CORR CORRIDOR CYCLES PER SECOND CARPET CONDENSER WATER RETURN



ASSESSOR MAP 17-06-24-40, TAX LOT 2000

Z

 $\overline{\geq}$

ELMIRA HIGH SCHOOL ELMIRA, OR

BID / PERMIT SET - 03/03/2016

GENERAL NOTES

- 1. SURVEY PROVIDED BY GOEBEL ENGINEERING & SURVEYING, DATED FEBRUARY 26, 2016. CONTROL TO BE VERIFIED WITH SURVEYOR PRIOR TO CONSTRUCTION.
- 2. CONSTRUCTION LAYOUT (ALL ACTUAL LINES AND GRADES) SHALL BE STAKED BY A PROFESSIONAL SURVEYOR, REGISTERED IN THE STATE OF OREGON, BASED ON COORDINATES, DIMENSIONS, BEARINGS, AND ELEVATIONS, AS SHOWN, ON THE PLANS.
- 3. PROJECT CONTROL FOR UTILITY LOCATIONS SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE HORIZONTAL POSITION PRIOR TO BEGINNING CONSTRUCTION LAYOUT. SEE SHEET C2.0 FOR CONTROL POINT INFORMATION.
- 4. PROJECT CONTROL SHALL BE FIELD VERIFIED AND CHECKED FOR RELATIVE VERTICAL POSITION BASED ON THE BENCHMARK STATED HEREON, PRIOR TO BEGINNING CONSTRUCTION LAYOUT.
- 5. WHEN DIMENSIONS AND COORDINATE LOCATIONS ARE REPRESENTED DIMENSIONS SHALL HOLD OVER COORDINATE LOCATION. NOTIFY THE CIVIL ENGINEER OF RECORD IMMEDIATELY UPON DISCOVERY.
- 6. PROPERTY LINES AND ASSOCIATED BUILDING SETBACKS SHALL BE VERIFIED PRIOR TO CONSTRUCTION LAYOUT.
- 7. CONTRACTOR SHALL PRESERVE AND PROTECT FROM DAMAGE ALL EXISTING MONUMENTATION DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PAYING FOR THE REPLACEMENT OF ANY MONUMENTS DAMAGED OR REMOVED DURING CONSTRUCTION. NEW MONUMENTS SHALL BE REESTABLISHED BY A LICENSED SURVEYOR.
- 8. SURVEY MAY NOT BE COMPLETE OR ACCURATE. CONTRACTOR TO VERIFY EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
- 9. CONTRACTOR TO REFERENCE SOILS REPORT BY K&A ENGINEERING DATED 8/28/2014 FOR THE SITE SOILS CONDITIONS.
- 10. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THESE PLANS, THE PROJECT SPECIFICATIONS AND THE APPLICABLE REQUIREMENTS OF THE 2015 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE 2014 OREGON PLUMBING SPECIALTY CODE, NFPA REQUIREMENTS FOR FIRE STORAGE, THE 2014 OREGON FIRE CODE, AND REQUIREMENTS OF LANE COUNTY.
- 11. THE COMPLETED INSTALLATION SHALL CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES AND REGULATIONS. ALL PERMITS, LICENSES AND INSPECTIONS REQUIRED BY THE GOVERNING AUTHORITIES FOR THE EXECUTION AND COMPLETION OF WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING CONSTRUCTION.
- 12. ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987). EXCAVATORS MUST NOTIFY ALL PERTINENT COMPANIES OR AGENCIES WITH UNDERGROUND UTILITIES IN THE PROJECT AREA AT LEAST 48 BUSINESS-DAY HOURS, BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO COMMENCING AN EXCAVATION, SO UTILITIES MAY BE ACCURATELY LOCATED.
- 13. THE LOCATION OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE. CONTRACTOR SHALL VERIFY ELEVATIONS, PIPE SIZE, AND MATERIAL TYPES OF ALL UNDERGROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION AND SHALL BRING ANY DISCREPANCIES TO THE ATTENTION OF KPFF CONSULTING ENGINEERS, 72 HOURS PRIOR TO START OF CONSTRUCTION TO PREVENT GRADE AND ALIGNMENT CONFLICTS.
- 14. THE ENGINEER OR OWNER IS NOT RESPONSIBLE FOR THE SAFETY OF THE CONTRACTOR OR HIS CREW. ALL O.S.H.A. REGULATIONS SHALL BE STRICTLY ADHERED TO IN THE PERFORMANCE OF THE WORK.
- 15. TEMPORARY AND PERMANENT EROSION CONTROL MEASURES SHALL BE IMPLEMENTED THE CONTRACTOR SHALL ADHERE TO LANE COUNTY REQUIREMENTS FOR MINIMUM EROSION CONTROL MEASURES. THE ESC FACILITIES SHOWN IN THESE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT LEAVE
- 16. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ROADWAYS, KEEPING THEM CLEAN AND FREE OF CONSTRUCTION MATERIALS AND DEBRIS, AND PROVIDING DUST CONTROL AS REQUIRED.
- 17. TRAFFIC CONTROL SHALL BE PROVIDED BY THE CONTRACTOR THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO FERN RIDGE SCHOOL DISTRICT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
- 18. CONTRACTOR SHALL MAINTAIN ALL UTILITIES TO ELMIRA HIGH SCHOOL AT ALL TIMES DURING CONSTRUCTION. IF A UTILITY OUTAGE IS REQUIRED, OBTAIN WRITTEN PERMISSION FROM OWNER 72 HOURS PRIOR TO THE OUTAGE.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL WORK WITH THE OWNER.
- 20. CONTRACTOR RESPONSIBLE FOR ANY NECESSARY PHASING OF THE PROJECT. PHASING TO BE CONFIRMED WITH OWNER PRIOR TO CONSTRUCTION.
- 21. IF ASBESTOS IS ENCOUNTERED DURING CONSTRUCTION, THE OWNER WILL PROVIDE A CONTRACTOR TO PERFORM ASBESTOS ABATEMENT.

CONSTRUCTION NOTES

GENERAL

- 1. SUBGRADE AND TRENCH BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-698. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER IS NOT PERMITTED.
- 2. SPECIAL INSPECTION REQUIRED FOR ALL COMPACTION TESTING.

<u>DEMOLITION</u>

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND DISPOSAL OF EXISTING AC, CURBS, SIDEWALKS AND OTHER SITE ELEMENTS WITHIN THE SITE AREA IDENTIFIED IN THE PLANS.
- 2. EXCEPT FOR MATERIALS INDICATED TO BE STOCKPILED OR TO REMAIN ON OWNER'S PROPERTY, CLEARED MATERIALS SHALL BECOME CONTRACTOR'S PROPERTY, REMOVED FROM THE SITE, AND DISPOSED OF PROPERLY.
- 3. ITEMS INDICATED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND DELIVERED STORED AT THE PROJECT SITE AS DIRECTED BY THE OWNER.
- 4. ALL LANDSCAPING, PAVEMENT, CURBS AND SIDEWALKS, BEYOND THE IDENTIFIED SITE AREA, DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED TO THEIR ORIGINAL CONDITION OR BETTER.
- 5. CONCRETE SIDEWALKS SHOWN FOR DEMOLITION SHALL BE REMOVED TO THE NEAREST EXISTING CONSTRUCTION JOINT.
- 6. SAWCUT STRAIGHT MATCHLINES TO CREATE A BUTT JOINT BETWEEN THE EXISTING AND NEW PAVEMENT.

<u>UTILITIES</u>

- 1. ADJUST ALL INCIDENTAL STRUCTURES, MANHOLES, VALVE BOXES, CATCH BASINS, FRAMES AND COVERS, ETC. TO FINISHED GRADE.
- 2. CONTRACTOR SHALL ADJUST ALL EXISTING AND/OR NEW FLEXIBLE UTILITIES (WATER, TV, TELEPHONE, ELEC., ETC.) TO CLEAR ANY EXISTING OR NEW GRAVITY DRAIN UTILITIES (STORM DRAIN, SANITARY SEWER, ETC.) IF CONFLICT OCCURS.
- 3. CONTRACTOR SHALL COORDINATE WITH PRIVATE UTILITY COMPANIES FOR THE INSTALLATION OF OR ADJUSTMENT TO GAS, ELECTRICAL, POWER AND TELEPHONE SERVICE.
- 4. BEFORE BACKFILLING ANY SUBGRADE UTILITY IMPROVEMENTS CONTRACTOR SHALL SURVEY AND RECORD MEASUREMENTS OF EXACT LOCATION AND DEPTH AND SUBMIT TO ENGINEER AND OWNER.

STORM AND SANITARY

- 1. CONNECTIONS TO EXISTING STORM AND SANITARY SEWERS SHALL CONFORM TO THE 2015 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION, SECTION 00490, "WORK ON EXISTING SEWERS AND STRUCTURES".
- 2. BEGIN LAYING STORM DRAIN AND SANITARY SEWER PIPE AT THE LOW POINT OF THE SYSTEM. TRUE TO GRADE AND ALIGNMENT INDICATED WITH UNBROKEN CONTINUITY OF INVERT. THE CONTRACTOR SHALL ESTABLISH LINE AND GRADE FOR THE STORM AND SANITARY SEWER PIPE USING A LASER.
- 3. ALL ROOF DRAIN AND CATCH BASIN LEADERS SHALL HAVE A MINIMUM SLOPE OF 2 PERCENT UNLESS NOTED OTHERWISE IN THE PLANS.

- 1. ALL WATER AND FIRE PROTECTION PIPE SHALL HAVE A MINIMUM 36-INCH COVER TO THE FINISH GRADE.
- 2. ALL WATER AND FIRE PRESSURE FITTINGS SHALL BE PROPERLY RESTRAINED WITH THRUST BLOCKS PER DETAIL.
- 3. ALL WATER MAIN / SANITARY SEWER CROSSINGS SHALL CONFORM TO THE OREGON STATE HEALTH DEPARTMENT REGULATIONS, CHAPTER 333.

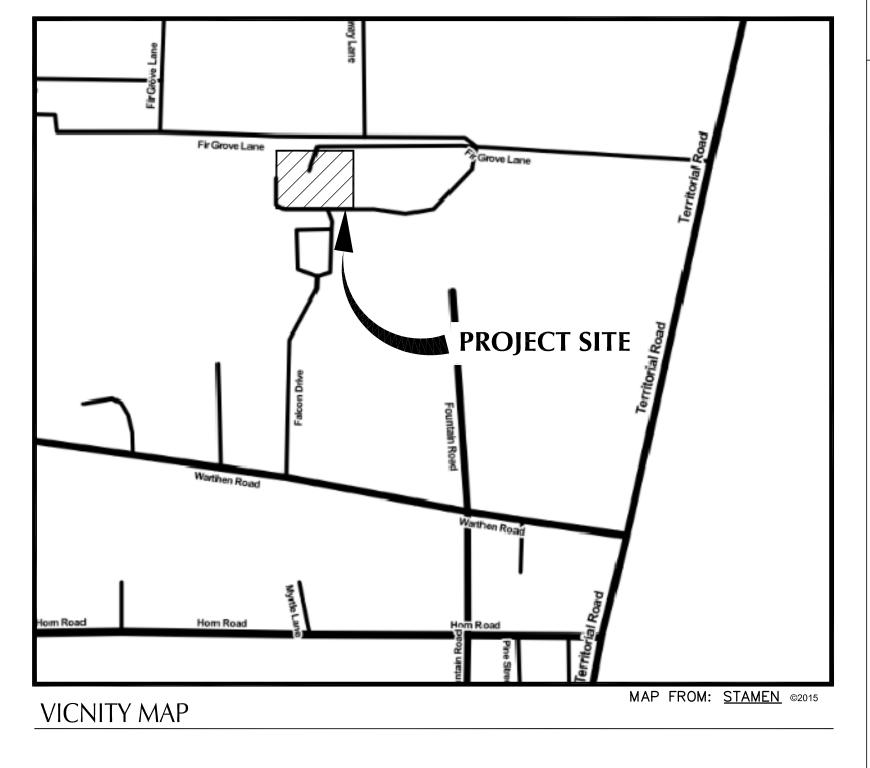
EARTHWORKS

- 1. CONTRACTOR SHALL PREVENT SEDIMENTS AND SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAINAGE SYSTEM.
- 2. TRENCH BEDDING AND BACKFILL SHALL BE AS SHOWN ON THE PIPE BEDDING AND BACKFILL DETAIL, THE PROJECT SPECIFICATIONS AND AS REQUIRED IN THE SOILS REPORT. FLOODING OR JETTING THE BACKFILLED TRENCHES WITH WATER WILL NOT BE PERMITTED.

ABBREVIATIONS

OUTFALL

AC	ASPHALT CONCRETE AREA DRAIN APPROXIMATE BOLLARD BUILDING BACK OF WALK BOTTOM OF SWALE BOTTOM OF STAIR BOTTOM OF WALL CATCH BASIN CENTERLINE CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEANOUT CONCRETE CLEANOUT TO GRADE CONTROL POINT DELTA DRIVEWAY DIAMETER DUCTILE IRON PIPE EASTING	OVH /OH	OVERHEAD
AD	ARFA DRAIN	D /I	DDODEDTY LINE
APPROX	APPROXIMATE	F/L BC	DOINT OF CUDYATURE
R	BOLL ARD	PC DCC	POINT OF COMPOUND CURVATUR
BIDG	BUIL DING	PCC	POINT OF CUMPOUND CURVATUR
BOW.	BACK OF WALK	PCR	POINT OF CURB RETURN
DOW DOW	DOTTOM OF SWALE	PED	PEDESTRIAN
БЗ	DOTTOM OF STAID	PIV	POST INDICATOR VALVE
DW	DOTTOM OF WALL	PM	PARKING METER
OD.	CATCH DACIN	POC	POINT ON CURVE
CB	CENTED INF	PP	POWER POLE
CL	CORRUCATED METAL DIDE	PRC	POINT OF REVERSE CURVATURE
CMP	CONCRETE MACOURY UNIT	PT	POINT OF TANGENT
CMU	CONCRETE MASONRY UNIT	P.U.E	PUBLIC UTILITY EASEMENT
00	CLEANOUT	PVC	POLYVINYL CHLORIDE
CONC.	CONCRETE	PVMT	PAVEMENT
COIG	CLEANOUT TO GRADE	PVT	PRIVATE
CP	CONTROL POINT	R	RIM
Δ	DELTA	RD	ROOF DRAIN
D/W	DRIVEWAY	R.O.W	RIGHT-OF-WAY
DIA.,Ø	DIAMETER	S	SLOPE (FT/FT)
DIP	DUCTILE IRON PIPE	SD	STORM DRÁINÍ
E	EASTING	SDMH	STORM DRAIN MANHOLE
EXIST./EX	EXISTING	SHT	STORM DRAIN MANHOLE SHEET
FDC	FIRE DEPARTMENT CONNECTION	SS	SANITARY SEWER
FF	FINISH FLOOR ELEVATION	SSMH	SANITARY SEWER MANHOLE
FG	FINISH GRADE	ST	STREET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FND	EASTING EXISTING FIRE DEPARTMENT CONNECTION FINISH FLOOR ELEVATION FINISH GRADE FIRE HYDRANT FLOWLINE FOUNDATION GUTTER GRADE BREAK GAS LINE GATE VALVE HEIGHT HANDICAP PARKING SPACE HIGH POINT INSIDE DIAMETER	S/W	SIDEWALK
G	GUTTER	TC	TOP OF CURB
GB	GRADE BREAK	TD	TRENCH DRAIN
GL	GAS LINE	TG	TOP OF GROUND
GV	GATE VALVE	TP	TOP OF PAVEMENT
Н	HEIGHT	TRANS	TRANSFORMER
HCP	HANDICAP PARKING SPACE	TS	TOP OF STAIR
HP	HIGH POINT	TW	TOP OF WALL
ID	INSIDE DIAMETER	1 **	TOP OF WALK
ΪΕ	INVERT ELEVATION	TYP	TYPICAL
INV	INVERT	UG	UNDERGROUND
IRR.	IRRIGATION	UGE	UNDERGROUND ELECTRIC
LP	LIGHT POLE	W	WATER
MH	MANHOLE		
MIN	MINIMUM	W/	WITH
N	NORTHING	WCR	WHEEL CHAIR RAMP
O.D	OUTSIDE DIAMETER	WM	WATER METER
0.0	OUTEALL	WV	WATER VALVE



NOTICE TO EXCAVATORS: ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503)-232-1987).

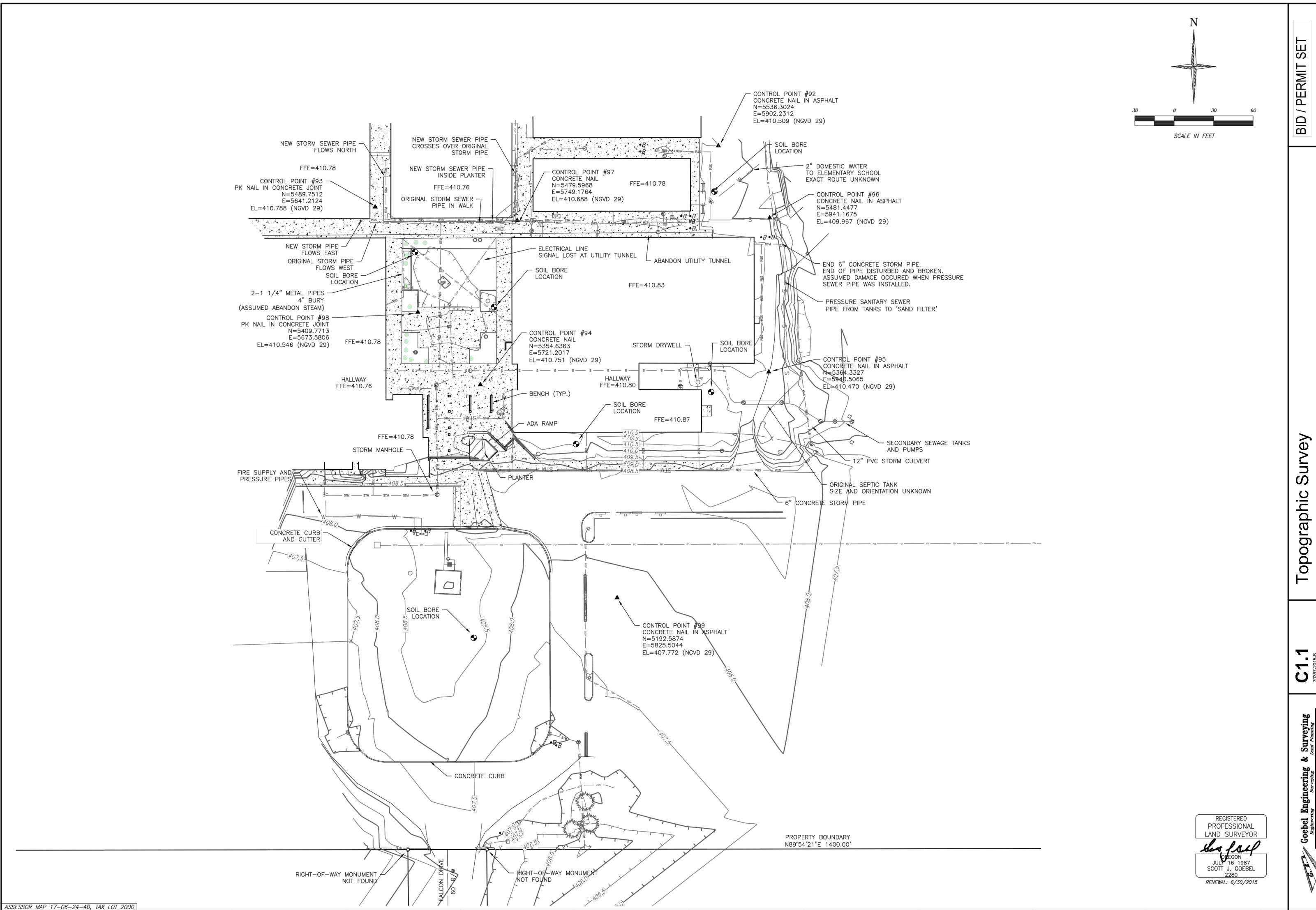
Dig Safely.

POTENTIAL UNDERGROUND FACILITY OWNERS

Call the Oregon One-Call Center 1-800-332-2344

SHEET INDEX

SHEET	SHEET	SHEET DESCRIPTION
NO.	TITLE	STILL DESCRIPTION
1	C1.0	CIVIL NOTES & ABBREVIATIONS
2	C1.1	TOPOGRAPHIC SURVEY
3	C1.2	UTILITY DEMOLITION PLAN
4	C2.0	UTILITY PLAN
5	C2.1	UTILITY PLAN
6	C2.2	UTILITY PLAN - FIRE STORAGE TANKS
7	C3.0	GRADING & SITE PLAN
8	C4.0	CIVIL DETAILS
9	C4.1	CIVIL DETAILS



100F

ELMIRA HIGH SCHO

70367-2015-S 74-13107-40 02/26/ 2016

Goebel Engineering & Surveying

Engineering Surveying Land Planning

25469 Highway 126, Veneta, Oregon 97487

S41-687-0542

Sographic Survey

- 1. SEE ARCHITECTURAL PLANS FOR SITE & BUILDING
- 2. CONTRACTOR MAY STAGE WITHIN LIMITS OF DEMOLITION.
- 3. REMOVE ALL SITE COMPONENTS AS SHOWN ON ARCHITECTURAL DEMOLITION PLAN AND RECYCLE
- 4. ALL TRADE LICENSES AND PERMITS NECESSARY FOR THE PROCUREMENT AND COMPLETION OF THE WORK SHALL BE SECURED BY THE CONTRACTOR PRIOR TO COMMENCING
- 5. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, AND OTHER FACILITIES IMMEDIATELY ADJACENT TO EXCAVATIONS FROM DAMAGES CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS.
- 7. CONTRACTOR IS RESPONSIBLE TO CONTROL DUST AND MUD DURING THE DEMOLITION PERIOD, AND DURING TRANSPORTATION OF DEMOLITION DEBRIS. ALL STREET SURFACES OUTSIDE THE CONSTRUCTION ZONE MUST BE
- 20. REMOVE EXISTING STORM PIPE & STRUCTURES. VERIFY THAT PIPE IS
- 22. REMOVE EXISTING STEAM LINE. STEAM LINE MAY CONTAIN ASBESTOS. OWNER WILL PROVIDE ASBESTOS ABATEMENT CONTRACTOR AS
- 23. STORM PIPE TO BE REPLACED IN PLACE. LINE MAY BE ACTIVE. PROVIDE TEMPORARY RE-ROUTING DURING CONSTRUCTION AS NECESSARY. SEE SHEET C2.1 FOR PROPOSED REPLACEMENT.

UTILITY LOCATION UNKNOWN. POTHOLE PRIOR TO CONSTRUCTION AND PROVIDE EXACT LOCATION, DEPTH, AND CONDITION OF PIPE TO KPFF.

PERMIT

BID

expiration date: **12/31/**16

SHEET NOTES PIPE BEDDING AND BACKFII

- PIPE BEDDING AND BACKFILL FOR ALL UTILITIES SHALL BE DONE PER DETAIL 1/C4.0.
- 2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.
- COORDINATE WITH OWNER FOR ASBESTOS REMOVAL. OWNER TO PROVIDE ASBESTOS ABATEMENT WORK AS NECESSARY.
- 4. ALL STORM PIPING HAS LESS THAN 2' OF COVER. USE C900 OR DUCTILE IRON PIPING FOR ALL STORM PIPING, PER SPECIFICATIONS.

× KEY NOTES

- CONNECT TO EXISTING STORM PIPE. PRIOR TO CONSTRUCTION, VERIFY EXACT LOCATION AND ELEVATION OF EXISTING PIPE. REPORT PIPE CONDITION, LOCATION, AND ELEVATION TO KPFF.
- 2. STORM PIPE TO BE REPLACED WITHIN ADDITION FOOTPRINT. SEE PLUMBING PLANS.
- 3. SANITARY PIPE TO BE REPLACED WITHIN ADDITION FOOTPRINT. BEGIN REPLACEMENT 5' FROM THE EDGE OF THE EXISTING BUILDING TO THE WEST. SEE PLUMBING PLANS.
- 4. CONNECT TO EXISTING 4" DOMESTIC WATER LINE.
- 5. CONNECT TO EXISTING 8" FIRE PROTECTION LINE.
- 6. DOMESTIC WATER INSTALLATION WILL OCCUR UNDER AN EXISTING CANOPY FOR THE WESTERN 100 LF OF PIPING. PROTECT EXISTING STRUCTURES.
- 7. TRENCH DRAIN TO BE INSTALLED OVER COLUMN FOOTING. $\frac{6}{(4.0)}$
- 8. ROOF DRAIN CONNECTIONS TO BE INSTALLED UNDER TRENCH DRAIN.
- 9. SEE STRUCTURAL PLANS FOR UTILITY CROSSINGS AT FOOTINGS.

UTILITY LABEL LEGEND

STRUCTURE LABEL

UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION)

STRUCTURE TYPE CALLOUT

ID NUMBER (WHERE APPLICABLE)

XX XX-XX
X+XX.X RT X.X' — LOCATION (WHERE APPLICABLE)

IE IN = XX.X → STRUCTURE INFO (WHERE APPLICABLE)

PIPE LABEL

IE OUT = XX.X

UTILITY LENGTH
UTILITY SIZE
UTILITY TYPE

XXLF - XX" XX

S=X.XX%

STRUCTURE TYPE

— SLOPE (WHERE APPLICABLE)

AD AREA DRAIN

CO CLEANOUT TO GRADE

CONN CONNECTION

FDC FIRE DEPARTMENT CONNECTION

TB THRUST BLOCK

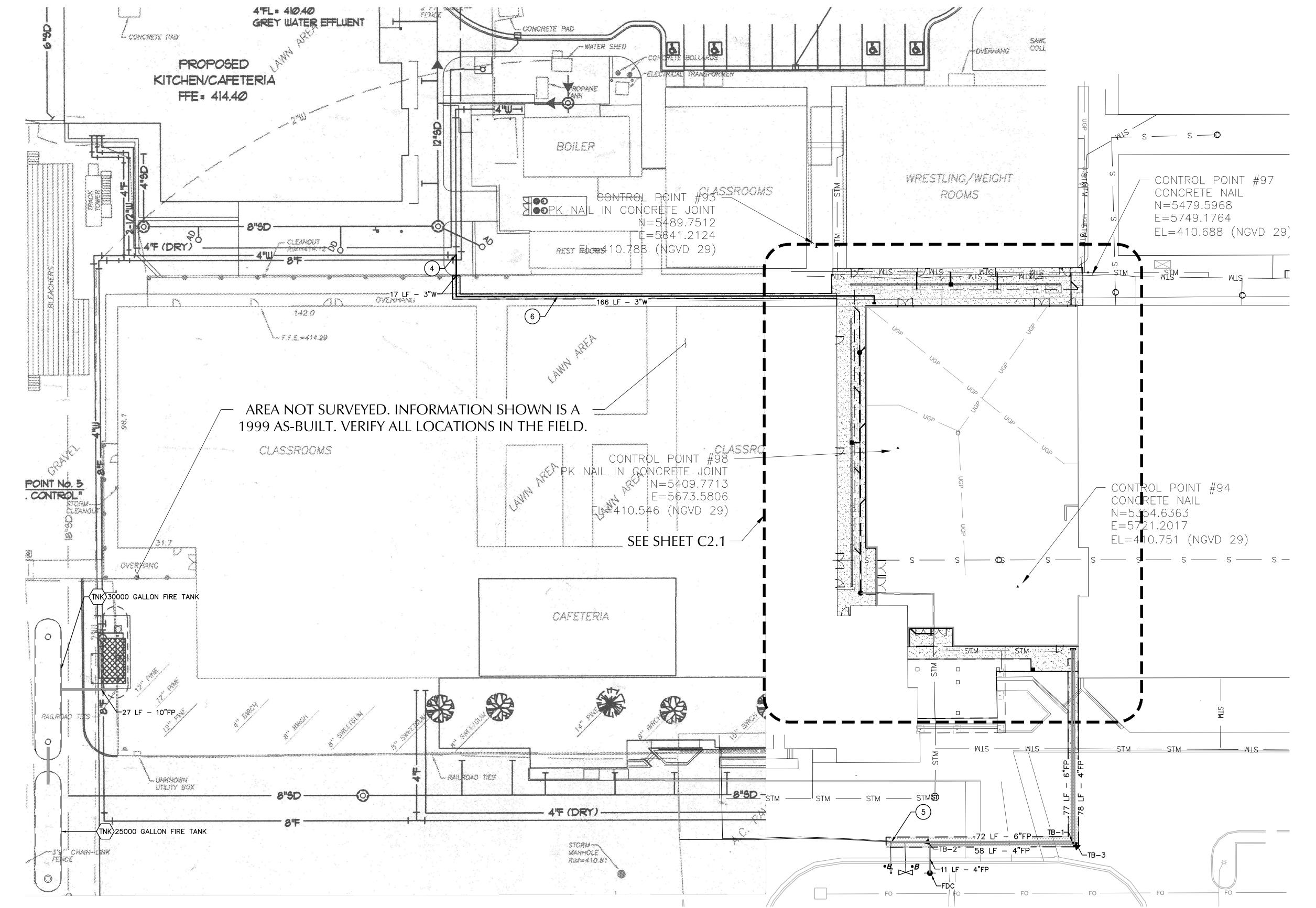
TD TRENCH DRAIN

DETAIL REF.

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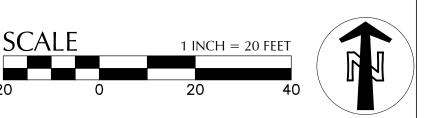
SHEET LEGEND

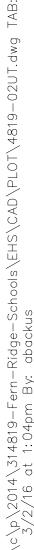
- CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED. SEE PLUMBING PLANS FOR CONTINUATION.
- CONNECT TO STORM DRAIN/ROOF DRAIN. SEE PLUMBING AND ARCHITECTURAL PLANS FOR CONTINUATION. SIZE AND IE AS
- CONNECT TO COLD WATER SYSTEM. SEE PLUMBING PLANS FOR CONTINUATION. SIZE AS NOTED.
- TWO UNDERGROUND FIRE PROTECTION TANKS BY XERXES OR APPROVED EQUAL. SIZE AS NOTED. CONNECT TO EXISTING C2.2 FIRE TANK PER MANUFACTURER'S INSTRUCTIONS.
- UTILITY LOCATION UNKNOWN. POTHOLE PRIOR TO CONSTRUCTION AND PROVIDE EXACT LOCATION, DEPTH, AND CONDITION OF PIPE TO KPFF. PROVIDE 12" MIN. CLEARANCE, U.N.O.



STRUCTURE TABLE					
STRUCTURE ID	NORTHING	EASTING			
FDC	5240.77	5686.31			
TB-1	5253.22	5742.82			
TB-2	5252.12	5686.29			
TB-3	5252.23	5743.82			







Ш BID

4. ALL STORM PIPING HAS LESS THAN 2' OF COVER. USE C900 OR DUCTILE IRON PIPING FOR ALL STORM PIPING, PER SPECIFICATIONS.

(X) KEY NOTES

1. CONNECT TO EXISTING STORM PIPE. PRIOR TO CONSTRUCTION, VERIFY EXACT LOCATION AND ELEVATION OF EXISTING PIPE. REPORT PIPE CONDITION, LOCATION, AND ELEVATION TO KPFF.

- 2. STORM PIPE TO BE REPLACED WITHIN ADDITION FOOTPRINT. SEE PLUMBING PLANS.
- 3. SANITARY PIPE TO BE REPLACED WITHIN ADDITION FOOTPRINT. BEGIN REPLACEMENT 5' FROM THE EDGE OF THE EXISTING BUILDING TO THE WEST. SEE PLUMBING PLANS.
- 4. CONNECT TO EXISTING 4" DOMESTIC WATER LINE.
- 5. CONNECT TO EXISTING 8" FIRE PROTECTION LINE.
- 6. DOMESTIC WATER INSTALLATION WILL OCCUR UNDER AN EXISTING CANOPY FOR THE WESTERN 100 LF OF PIPING. PROTECT EXISTING STRUCTURES.
- 7. TRENCH DRAIN TO BE INSTALLED OVER COLUMN FOOTING. $\frac{6}{(24.0)}$

UTILITY LABEL LEGEND

STRUCTURE LABEL

—— UTILITY TYPE (SD=STORM DRAINAGE, S=SANITARY SEWER, W=WATER, FP=FIRE PROTECTION) ——— ID NUMBER (WHERE APPLICABLE)

 $IE\ IN\ =\ XX.X$

→ STRUCTURE INFO (WHERE APPLICABLE) IE OUT = XX.X

PIPE LABEL

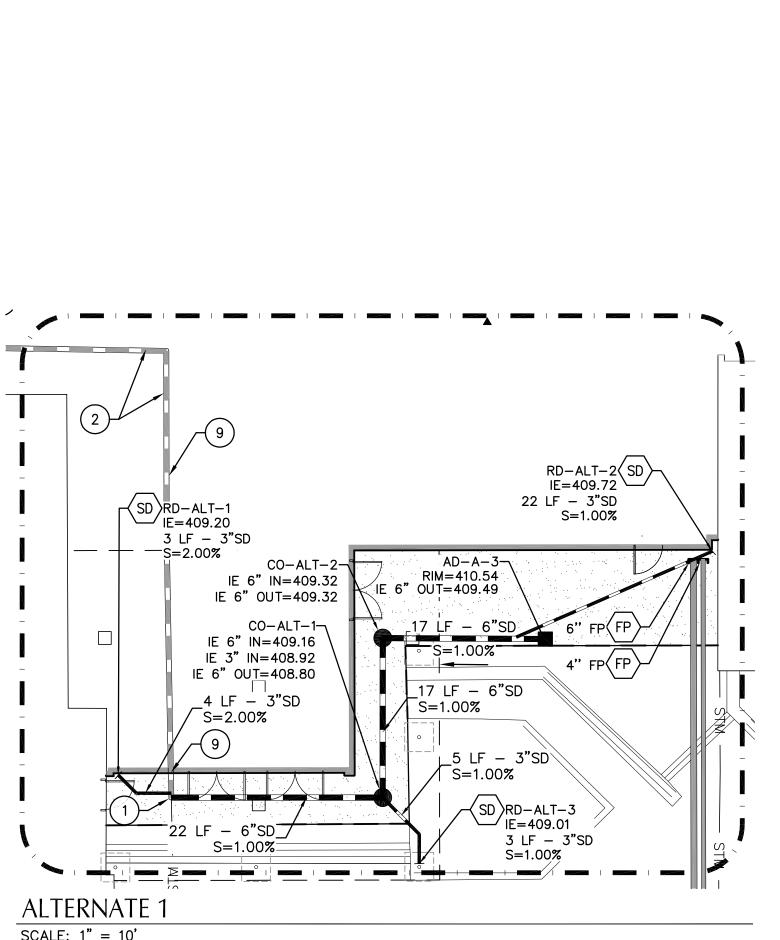
— UTILITY LENGTH — UTILITY SIZE — UTILITY TYPE XXLF - XX" XX

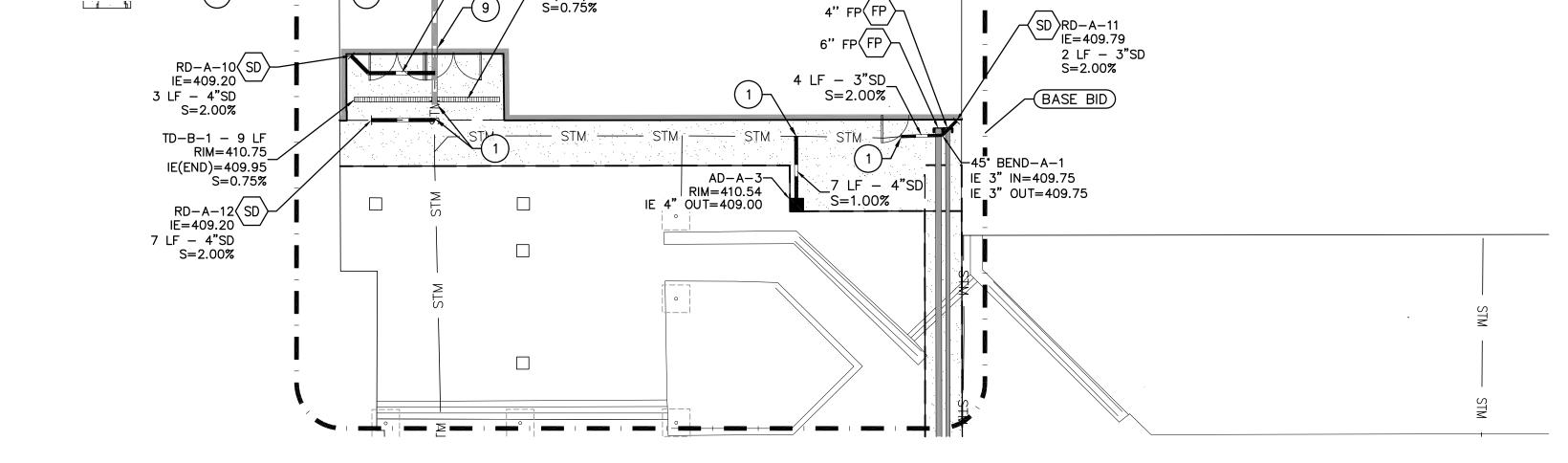
— SLOPE (WHERE APPLICABLE)

DETAIL REF. <u>CALLOUT</u> AREA DRAIN -CO CLEANOUT TO GRADE -CONN CONNECTION FDC FIRE DEPARTMENT CONNECTION THRUST BLOCK -TRENCH DRAIN -

SHEET LEGEND

- SEE PLUMBING PLANS FOR CONTINUATION.
- ARCHITECTURAL PLANS FOR CONTINUATION. SIZE AND IE AS
- PLANS FOR CONTINUATION. SIZE AS NOTED.
- UTILITY LOCATION UNKNOWN. POTHOLE PRIOR TO CONSTRUCTION AND \langle !! angle PROVIDE EXACT LOCATION, DEPTH, AND CONDITION OF PIPE TO KPFF.





1 INCH = 10 FEET

SD RD-B-1 IE=409.26

 \sqrt{SD} RD-B-2

└─ IE=409.26

S=2.00%

13 LF - 3"SD

S=2.00%

STM STM STM STM

TD-4 - 44 LF

IE(END) = 409.82

RIM = 410.65

S=0.75%

 $\left\langle SD\right\rangle$ RD-B-3 IE=409.26

6 LF - 3"SD

S=2.00%

S=0.90% \sqrt{SD} RD-A-3 ☐ IE=409.86 3 LF - 4"SD S=7.99%

-45° BEND-A-3 IE 3" IN=409.84

IE 3" OUT=409.84

_16 LF - 3"SD

RIM = 410.65

🚹 MTS -

_7 LF - 4"SD

TD-B-2 - 7 LF

RIM = 410.75

 \Box IE(END)=409.95

_S=2.00%

-√SD \RD-B-4

IE=409.26

S=2.00%

7 LF - 3"SD

IE 6" IN=409.85 (W) TD

IE 6" IN=409.82 (E) TD

IE 6" OUT=409.75 (N)

└CO-A-2 IE 3" IN=409.69 IE 4" IN=409.65 IE 6" OUT=409.57

SD RD-A-2 IE=409.75

_96 LF - 6"SD

SD RD-A-1 IE=409.75

3 LF - 4"SD

S=0.33%

3 LF - 4"SD

S=2.00%

TD-3 - 40 LF

IE(END)=409.85

RIM = 410.65

S=0.75%

AD−A−2— RIM = 410.68IE 6" IN=409.77 (S) TD IE 6" IN=409.83 (N) TD

 $RD-A-4\langle SD \rangle$

IE=409.86 **└**

S=1.06%

RIM = 410.68

 $RD-A-5\langle SD \rangle$

 $RD-A-6\langle SD \rangle$

IE=409.86 ___

TD-1 - 57 LF RIM = 410.68

IE(END) = 409.77

 $RD-A-7\langle SD \rangle$

IE=409.86 ✓

S=0.75%

3 LF - 3"SD S=2.00%

IE=409.86 **└**

3 LF - 3"SD S=1.06%

S=0.75%

3 LF - 3"SD

TD-2 - 49 LF

IE(END) = 409.83

IE 6" OUT=409.73 (E) 3 LF - 6"SD_ S=1.71%

S

5305.15 5710.31 5321.76 | 5710.32

5694.50

STRUCTURE TABLE

STRUCTURE ID | NORTHING | EASTING

45° BEND-A-1 | 5329.25 | 5743.09

45° BEND-A-2 | 5336.01 | 5680.59

5463.79 | 5658.34

5305.61 | 5684.66

5411.97 | 5655.14

5321.66 | 5727.20

5352.13 | 5658.79

5474.87

45° BEND-A-3

45° BEND-ALT-1

AD-1

AD-A-2

AD-A-3

CO-A-1

CO-ALT-1

CO-ALT-2

S=2.00% 3 LF - 3"SD S=2.00%

IE 6" IN=409.25 IE 6" OUT=409.33

SCALE: 1" = 10'

SHEET NOTES

DETAIL 1/C4.0. 2. STRUCTURES LOCATIONS ARE BASED ON CENTER OF STRUCTURE.

3. COORDINATE WITH OWNER FOR ASBESTOS REMOVAL. OWNER TO PROVIDE ASBESTOS ABATEMENT WORK AS NECESSARY.

8. ROOF DRAIN CONNECTIONS TO BE INSTALLED UNDER TRENCH DRAIN.

9. SEE STRUCTURAL PLANS FOR UTILITY CROSSINGS AT FOOTINGS.

XX XX - XXX+XX.X RT X.X' - LOCATION (WHERE APPLICABLE)

S=X.XX%

STRUCTURE TYPE

DESCRIPTION

CONNECT TO FIRE PROTECTION SYSTEM. SIZE AS NOTED.

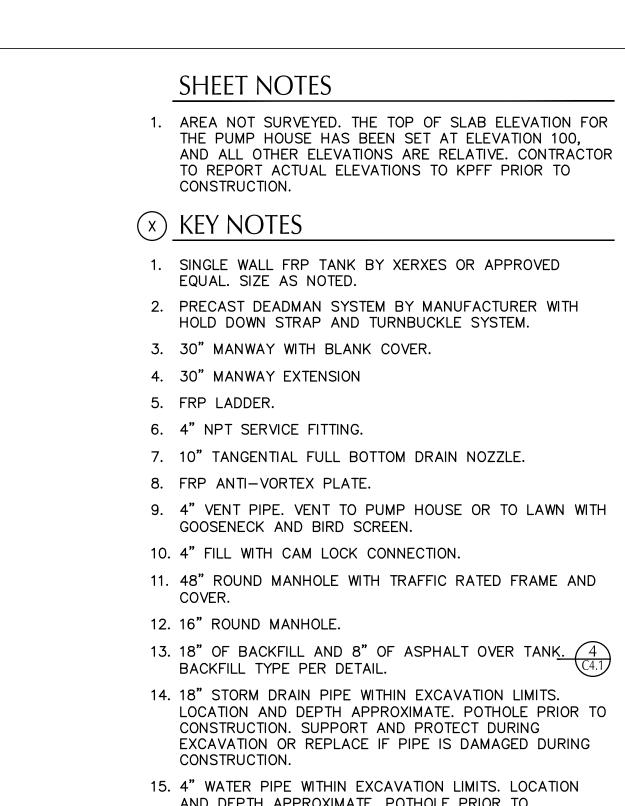
CONNECT TO STORM DRAIN/ROOF DRAIN. SEE PLUMBING AND

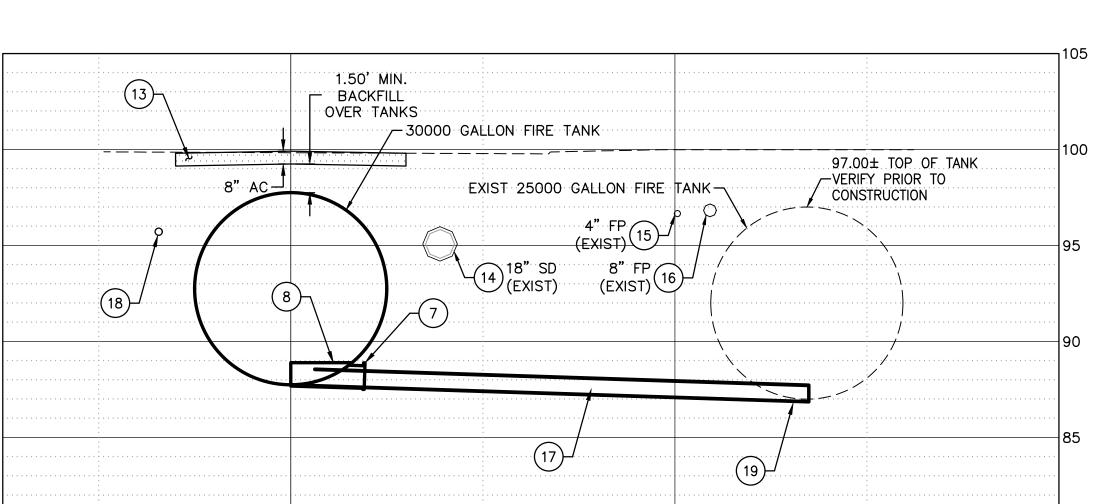
CONNECT TO COLD WATER SYSTEM. SEE PLUMBING

TWO UNDERGROUND FIRE PROTECTION TANKS BY XERXES OR APPROVED EQUAL. SIZE AS NOTED. CONNECT TO EXISTING (C2.2) FIRE TANK PER MANUFACTURER'S INSTRUCTIONS.

PROVIDE 12" MIN. CLEARANCE, U.N.O.

XPIRATION DATE: **12/31/**16





30000 GALLON FIRE TANK

FIRE STORAGE TANKS SECTION VIEW SCALE: HORZ: 1" = 5' VERT: 1" = 5'

SOME FILL MAY BE REQUIRED TO MAINTAIN REQUIRED COVER

25000 GALLON FIRE TANK

CASTISA SOX

FIRE STORAGE TANKS PLAN VIEW

SCALE: 1" = 10'

25000 GALLON FIRE TANK

30000 GALLON FIRE TANK

S=3.22%

110.00'

12.00' +

APPROXIMATE EXISTING GRADE AT CENTERLINE OF -PROPOSED TANKS

97.85± TOP OF TANK TO BE 0.85'_
HIGHER THAN
EXISTING TANK)

FIRE STORAGE TANKS

PROFILE SCALE: HORZ: 1" = 5' VERT: 1" = 5'

2. PRECAST DEADMAN SYSTEM BY MANUFACTURER WITH

9. 4" VENT PIPE. VENT TO PUMP HOUSE OR TO LAWN WITH

11. 48" ROUND MANHOLE WITH TRAFFIC RATED FRAME AND

13. 18" OF BACKFILL AND 8" OF ASPHALT OVER TANK. (4)

14. 18" STORM DRAIN PIPE WITHIN EXCAVATION LIMITS. LOCATION AND DEPTH APPROXIMATE. POTHOLE PRIOR TO CONSTRUCTION. SUPPORT AND PROTECT DURING EXCAVATION OR REPLACE IF PIPE IS DAMAGED DURING

15. 4" WATER PIPE WITHIN EXCAVATION LIMITS. LOCATION AND DEPTH APPROXIMATE. POTHOLE PRIOR TO CONSTRUCTION. SUPPORT AND PROTECT DURING EXCAVATION.

16. 8" FIRE PROTECTION PIPE WITHIN EXCAVATION LIMITS. LOCATION AND DEPTH APPROXIMATE. SUPPORT AND PROTECT DURING EXCAVATION.

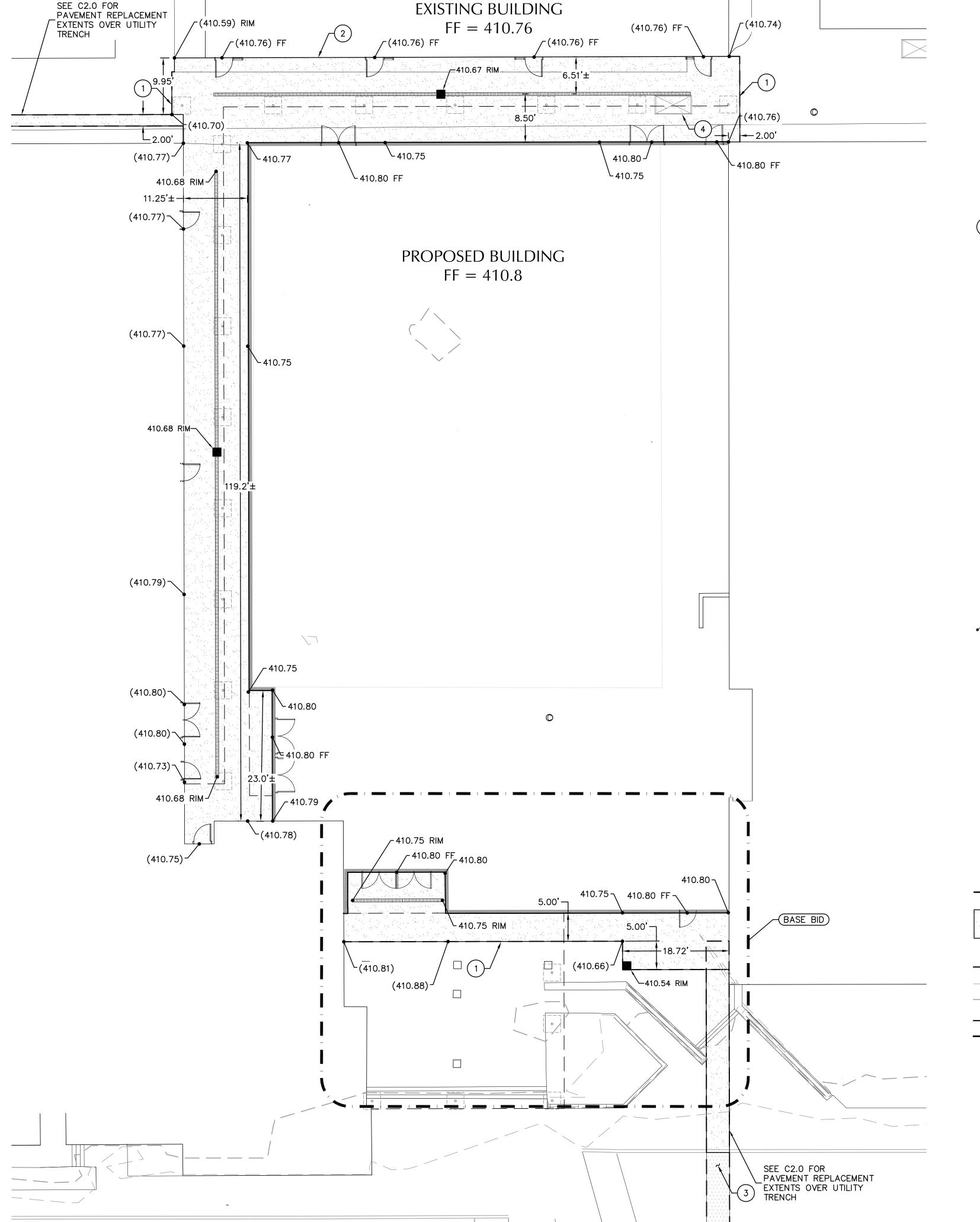
17. TRENCHING REQUIRED WITHIN EXISTING TANK BACKFILL. SHORING RECOMMENDED. ANY REMOVED BACKFILL MUST BE REPLACED PER MANUFACTURER'S REQUIREMENTS.

18. ELECTRICAL SERVICE WITHIN EXCAVATION LIMITS. LOCATION APPROXIMATE. POTHOLE PRIOR TO CONSTRUCTION. PROTECT AND SUPPORT DURING EXCAVATION.

97.75± TOP OF TANK (TANK TO BE 0.75' HIGHER THAN

EXISTING TANK)

19. EXPOSE CONNECTION POINT OF TANK FROM THE EXTERIOR AND EMPTY TANK TO ALLOW ACCESS TO THE TANK INTERIOR. MANUFACTURER TO MAKE NEW CONNECTION. CONTRACTOR TO CONTACT, SCHEDULE, AND COORDINATE WITH MANUFACTURER. MANUFACTURER TO PROVIDE AND INSTALL ANTI-VORTEX PLATE ON PUMP INTAKE PER CURRENT FIRE CODE.



SEE C2.0 FOR

410.80 FF ¬

-410.54 RIM

410.80 FF-

☐ 410.52 ¬ ►

□ 410.50 ¬

ALTERNATE 1

SCALE: 1" = 10'

410.79 ¬

/ (410.45)

SHEET NOTES

- 1. DIMENSIONS TO FACE OF BUILDING ARE FOR BIDDING PURPOSES ONLY. VERIFY FACE OF BUILDING LOCATION WITH ARCHITECTURAL PLANS.
- 2. ALL SIDEWALK PAVEMENT JOINTS SHALL BE CONSTRUCTED PER DETAIL 1/C4.1. USE DOWELED

JOINTS WHERE PROPOSED SIDEWALK MATCHES EXISTING.

- 3. SLOPES PROVIDED ON SLOPE ARROW ARE FOR REFERENCE ONLY.
- 4. CONTOURS PROVIDED ARE FOR REFERENCE ONLY.
- 5. LANDINGS ON ACCESSIBLE ROUTES SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 6. ALL ACCESSIBLE ROUTES SHALL COMPLY WITH CURRENT ADA ACCESSIBILITY GUIDELINES FOR BUILDING AND FACILITIES (ADAAG).
- 7. ALL WALKWAYS ARE DESIGNED TO NOT REQUIRE HANDRAILS. THEREFORE, RAMPS WITH SLOPES STEEPER THAN 5.0% AND LESS THAN 8.33% SHALL NOT EXCEED 0.5' RISE OR 6.0' LENGTH.

(x) KEY NOTES

- SAWCUT LINE.
- 2. REPLACE EXISTING PLANTER WITH CONCRETE SIDEWALK. SET TOP OF PAVEMENT AT BUILDING AT 410.70 UNLESS NOTED OTHERWISE. SLOPE TO DRAIN FROM BUILDING TO TRENCH DRAIN.
- 3. INSTALL 2" AC PAVEMENT OVER 10" OF BASE ROCK OVER TRENCH WITHIN PARKING LOT. SEE C2.0 FOR EXTENTS OF TRENCHING.
- 4. ADJUST EXISTING VAULT LID TO GRADE.

GRADING LABEL LEGEND

<u>CALLOUT</u> <u>DESCRIPTION</u> X.X%_ GRADING SLOPE AND DIRECTION (DOWNHILL) SPOT ELEVATION, SHOWN IN () INDICATES EX. ELEV. TO MATCH - DESCRIPTION LISTED BELOW. NO DESCRIPTION MEANS TP OR TG BOTTOM OF SWALE BACK OF WALK BOTTOM OF STEP BOTTOM OF WALL EXISTING GRADE BOS BOW BS FINISHED FLOOR FLOW LINE GUTTER

HIGH POINT LOW POINT

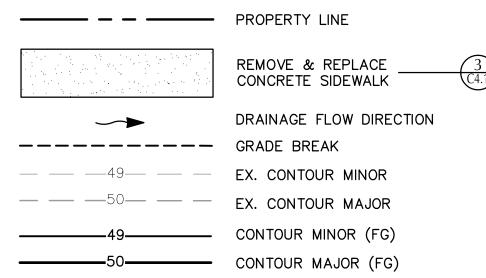
TOP OF CURB TOP OF GROUND

TOP OF STEP TOP WALL

RIM OF STRUCTURE

TOP OF PAVEMENT

SHEET LEGEND





EACH AREA IS ½ OF -TABULATED TOTAL ¼" PLYWOOD -OVER FACE OF BOLTS FLOW PLUG OR CAP TEE PLUGGED CROSS WYE - DUAL PORT INLET. VERIFY MAKER, MODEL, AND SIZE WITH FIRE DEPARTMENT. PLUGGED CROSS 1. CONCRETE THRUST BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH. 2. KEEP CONCRETE CLEAR OF JOINT AND ACCESSORIES. 18" MIN. 3. THE REQUIRED THRUST BEARING AREAS FOR SPECIAL CONNECTIONS ARE SHOWN ENCIRCLED ON THE PLAN; e.g. (5) INDICATES 15 SQUARE FEET BEARING AREA SIDE REQUIRED. -FINISH GRADE 4. IF NOT SHOWN ON PLANS REQUIRED BEARING AREAS AT FITTING SHALL BE AS INDICATED BELOW, ADJUST IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS (ES) STATED IN THE SPECIAL SPÉCIFICATIONS. 5. BEARING AREAS AND SPECIAL BLOCKING DETAILS SHOWN ON PLANS TAKE PRECEDENCE OVER BEARING AREAS AND BLOCKING DETAILS SHOWN ON THIS

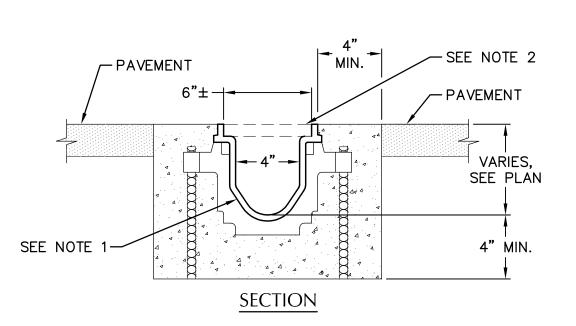
> STANDARD DETAIL. BEARING AREA OF THRUST BLOCK IN SQUARE FOOT

			TEE PLUGGED ON RUN				
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND PLUGGED CROSS	A1	A2	45° BEND	22½° BEND	11¼° BEND
4	1.0	1.4	1.9	1.4	1.0		
6	2.1	3.0	4.3	3.0	1.6	1.0	
8	3.8	5.3	7.6	5.4	2.9	1.5	1.0
10	5.9	8.4	11.8	8.4	4.6	2.4	1.2

ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 p.s.i.. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURE AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE/150)X(2000/ SOIL BEARING

STRESS)X(TABLE VALUE).

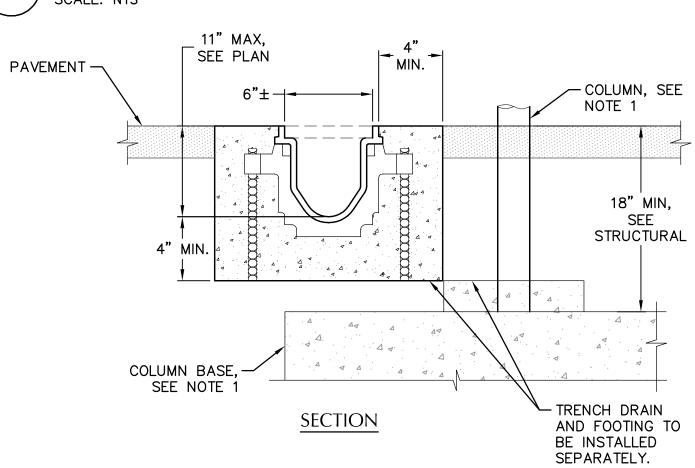
THRUST BLOCK SCALE: NTS



NOTES:
1. TRENCH DRAIN SHALL BE SLOPED 6" WIDE ACO TRENCH DRAIN.

- 2. TRENCH DRAINS GRATE SHALL BE LOCKABLE HEAVY DUTY TRENCH GRATE -CLASS C.
- 3. TRENCH SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

TRENCH DRAIN - 6 INCH WIDE SCALE: NTS



NOTES:

1. SEE STRUCTURAL PLANS FOR COLUMN & FOOTING DETAILS.

TRENCH DRAIN OVER FOOTING SCALE: NTS

EXISTING PAVEMENT **AREAS** AREAS EXISTING AC -SAWCUT -- DETECTABLE WARNING TAPE PAVEMENT LINE TRACER WIRE D/2

PAVED

UNPAVED

RESURFACING MATCH-

TYPICAL PIPE BEDDING AND BACKFILL SCALE: NTS

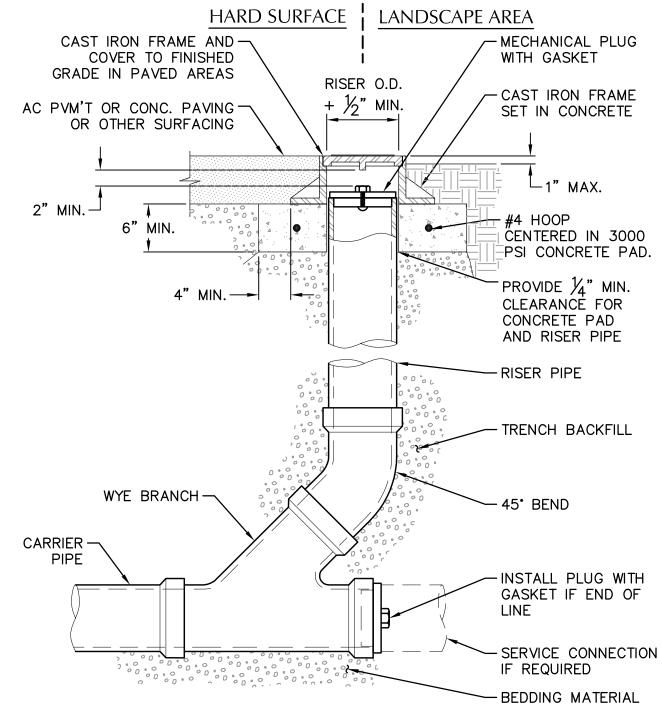
- MEDIUM DUTY 15"± SQ. TRAFFIC GRATE. TOP OF PAVEMENT RIM=PER PLAN (WHERE - TOP OF GROUND APPLICABLE) (WHERE APPLICABLE) - PIPE SIZE ENGINEERED FILL PER PLAN NOTE 1 COMPACT SUBGRADE —

NOTE:

1. 10 GAGE STEEL PLATE, BITUMINOUS COATED, AS MANUFACTURED BY GIBSON STEEL BASINS OR APPROVED EQUAL.

TRAPPED AREA DRAIN

SCALE: NTS

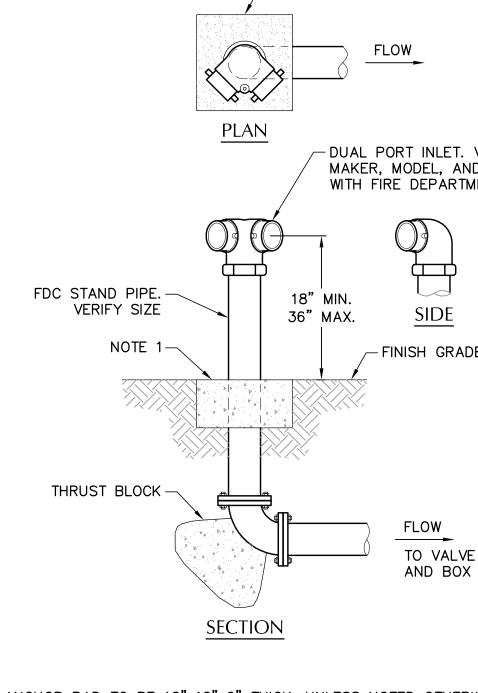


NOTES:

1. CAST IRON FRAME AND COVER SHALL MEET H-20 LOAD REQUIREMENT. 2. FOR CARRIER PIPE SIZE 6"\$\Overline{\pi}\$ AND LESS, PROVIDE RISER PIPE SIZE TO MATCH CARRIER PIPE.

3. FOR CARRIER PIPE SIZE 8"\$\Overline{\pi}\$ AND LARGER, RISER PIPE SHALL BE 6"\$\Overline{\pi}\$.

4. RISER PIPE MATERIAL TO MATCH CARRIER PIPE MATERIAL. STANDARD CLEANOUT (COTG) SCALE: NTS



1. CONCRETE ANCHOR PAD TO BE 12"x12"x6" THICK, UNLESS NOTED OTHERWISE. ELIMINATE IF INSTALLED IN CONCRETE PAVED AREA.

- 2. USE FLANGE OR THREADED FITTINGS.
- 3. CONTRACTOR SHALL PROVIDE SINGLE CHECK VALVE AND BALL DRIP VALVE IN ACCESSIBLE LOCATION INSIDE DDCV VAULT. COORDINATE WITH PLUMBING. FIRE DEPARTMENT CONNECTION (FDC)

DUAL PORT SCALE: NTS

Civil Detail

JOINT INTERVALS TABLE

OR AT...

LOCATIONS SHOWN ON

PLANS

END OF RAMPS AND

DRIVEWAYS

POINTS OF TANGENCY

AND AT ENDS OF EACH DRIVEWAY OR

OTHER FIXED OBJECTS

¾" FIBER ─ EXPANSION BOARD WITH BACKER ROD — DRAINAGE MANHOLE,

SCORE JOINT

1/8" TO 1/4"-||-

EXPANSION / ISOLATION JOINT

SPACING TYPE SCORE STRUCTURE, CONTRACTION FOOTING OR SIDEWALK/ DRIVEWAY EXPANSION/ ISOLATION

TOOLED OR SAWCUT JOINT

* MONOLITHIC CURB AND SIDEWALK SHALL BE 45' MAX.

1/8" TO 1/4"──||--

CONTRACTION JOINT

TOOLED OR SAWCUT JOINT

(TYP.)

5' TYP.

15' MAX.

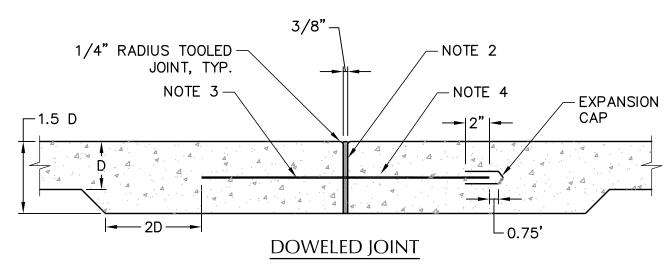
NOTES:

1. CONTRACTION JOINTS MAY BE USED IN PLACE OF SCORE JOINTS.

- 2. CONSTRUCTION COLD JOINTS MAY BE USED IN PLACE OF CONTRACTION JOINTS.
- 3. PROVIDE MEDIUM BROOM FINISH WITH NO TOOL MARKS.

SIDEWALK JOINTS

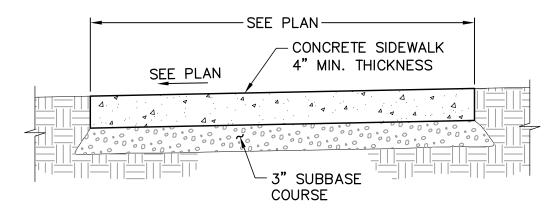




NOTES:
1. SEE PLAN FOR JOINT LOCATIONS.

- 2. ONLY AT EXPANSION JOINTS INSTALL %" FIBER EXPANSION BOARD WITH BACKER ROD AND SEALANT.
- 3. 1/2" DIA. x 18" LONG SMOOTH DOWEL AT 2' OC, CENTERED IN SLAB.
- 4. LUBRICATE ONE-HALF OF DOWEL LENGTH THIS END.

DOWELED JOINT



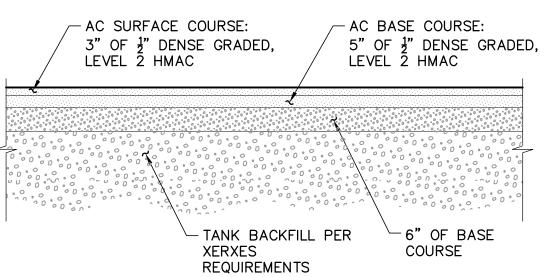
NOTES:

1. CONSTRUCT CONTRACTION JOINTS AT 15' MAX. SPACING AND AT RAMPS.

CONSTRUCT EXPANSION JOINTS AT 200' MAX SPACING, AT POINTS OF

TANGENCY AND AT ENDS OF EACH DRIVEWAY, UNLESS NOTED OTHERWISE.

CONCRETE SIDEWALK SCALE: NTS



ASPHALT PAVEMENT SECTION

SCALE: NTS

ROBERT J. ESAU

PORTLAND, OR OF OF OF OREGOT

WCs Required: Male WC = 1 per 125 = 4

Female WC = 8 Unisex WC = 1

Female = 1 per 200 = 3

Provided: 2 (Note: 3rd DF in gymnasium is for water bottle filling only.)

WCs Provided: Male WC = 5

Lavs Provided: Male = 3

Drinking Fountains

Lavs Required: Male = 1 per 200 = 3

Female = 5 Unisex = 1

Female WC = 1 per 65 = 8

ENERGY CODE ANALYSIS

Per 2014 Oregon Energy Efficiency Specialty Code

Opaque Assemblies, per Table 502.1.1 R-20ci minimum = Roofs, Insulation entirely above deck R-21 minimum = Wood framed walls R-7.5 minimum = Walls, Below Grade NR = Slab-on-Grade Floors

U-0.70 maximum = Swinging Doors

Fenestration, per Table 502.3 U-0.35 maximum for fixed, operable, and doors with greater than 50% glazing U-0.45 maximum for metal framing fixed fenestration (including curtain wall/storefront)

U-0.80 maximum for metal framing entrance doors U-0.46 maximum for metal framing non-entrance doors (no operable windows in the project) SHGC = 0.40 Vertical fenestration area (not including opaque doors) shall not exceed 30% of above-grade wall

Skylights, per Table 502.3 U=0.60 maximum

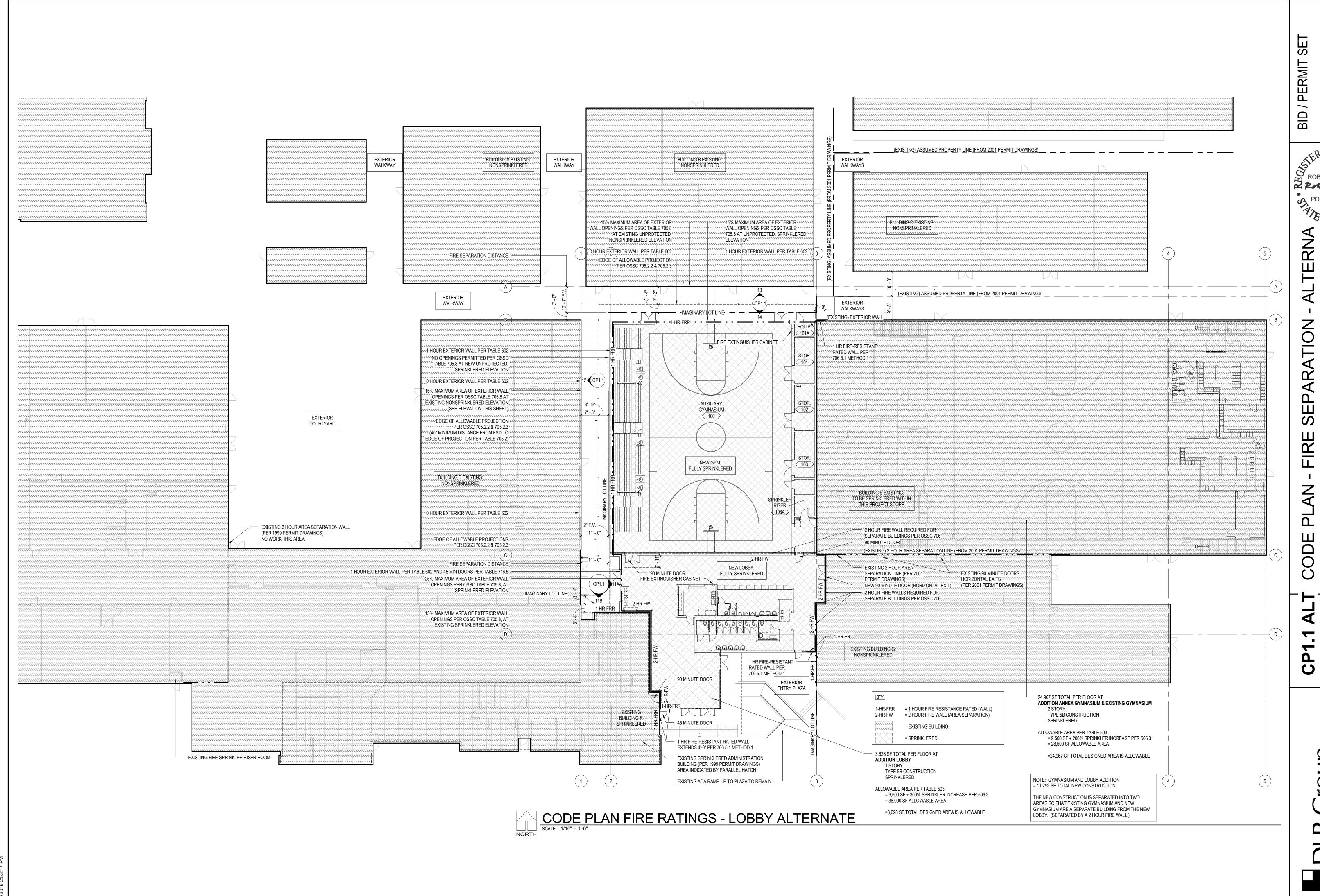
SHGC = 0.40 Skylight area shall not exceed 3% of roof area

Air Leakage Testing of fenestration and doors, per 502.4.3 Testing shall be done by an accredited, independent testing laboratory and labeled by the manufacturer

Air Barrier Testing, per 502.4.2 The completed building shall be tested and the air leakage rate of the building envelope shall not exceed 0.40 cfm per sf at a pressure differential of 0.3 inches water gauge in accordance with ASTM E779

Vestibules, per 502.4.6, shall be provided at exterior doors Exception 1 - Doors not intended to be used as a building entrance door

GENERAL NOTE: SEE ELECTRICAL DRAWINGS E1.1, E1.2, AND E1.3 FOR VISIBLE AND ILLUMINATED EXIT SIGN LOCATIONS. ALL EXIT SIGNS SHOULD COMPLY WITH OSSC 1011. PROVIDE RAISED CHARACTER AND BRAILLE EXIT SIGNS ADJACENT TO EACH DOOR TO AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE PER OSSC 1011.4.



CP Group

RENOV

/ATION

'ATION

RENOV,

EXISTING PUMP HOUSE, SEE MECHANICAL

NEW WATER TANK, SEE CIVIL

CAFETERIA BUILDING

ARTS & SCIENCES BUILDING

JUNIOR HALL

SOUTHWEST CLASSROOMS

MECHANICAL

RESTROOMS

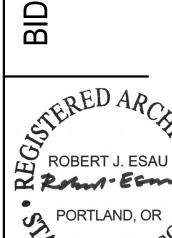
WEST COURTYARD











NORTH PARKING LOT

ADMINISTRATION BUILDING

WEIGHT ROOM BUILDING

NORTH CLASSROOMS

LIBRARY & CAREER CENTER BUILDING

SENIOR HALL

SOUTH PARKING LOT

LCC LEARNING CENTER

PROTECH BUILDING

FRESHMAN HALL

AREA B SCOPE: GYMNASIUM & LOBBY ADDITION

SEE A1.2ALT FOR ALTERNATE LOBBY SCOPE

SOUTHEAST CLASSROOMS

AREA A SCOPE: LOCKER ROOM RENOVATION

GYMNASIUM BUILDING

BID

PE

BID

PERMIT

BID

LEGEND NOTES

LEGEND NOTES ARE COMMON TO ALL SOME NOTES MAY NOT APPLY TO THIS SHEET

- **GENERAL NOTES** A. GENERAL NOTES APPLY TO ALL SHEETS. B. DIMENSIONS ARE ACTUAL AND ARE TO FACE OF STUDS, FACE OF CONCRETE WALLS, FACE OF CMU WALLS, FACE OF FRAMES OR CENTERLINE OF COLUMNS, UNLESS NOTED OTHERWISE. SEE 31 & 35/A10/2 FOR FACE OF EXISTING CMU ALIGNMENT FOR GRIDS B & C C. FLOOR SPOT ELEVATIONS ARE SHOWN THUS XXX' - X"
- D. INTERIOR CMU WALLS SHALL BE 8 INCH NOMINAL THICKNESS, UNLESS NOTED OTHERWISE. THICKNESS.
- WALLS SHADED ON FLOOR PLANS INDICATE GROUND FACE MASONRY UNITS (GFCMU). EXTEND GFCMU TO 4 INCHES MINIMUM ABOVE FINISH CEILINGS AND CONTINUE WITH CMU OF SAME
- F. WALL TYPES SHALL BE DESIGNED ON FLOOR PLANS THUS X. SEE SHEET A0.1 FOR WALL TYPES. INTERIOR PARTITIONS ARE WALL TYPE 12 UNLESS NOTED OTHERWISE. G. MASONRY WALLS AND INTERIOR STUD WALLS SHALL EXTEND TO
- UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE. SEE REFLECTED CEILING PLAN NOTES. PROVISIONS SHALL BE MADE AT FULL HEIGHT NONBEARING WALLS FOR 1-INCH VERTICAL MOVEMENT OF BUILDING STRUCTURE WITHOUT TRANSFER OF COMPRESSIVE LOADS TO WALL. FILL IRREGULARITIES BETWEEN TOP OF WALL AND DECK ABOVE WITH FIRE SAFING INSULATION OR FIRE STOPPING MATERIALS AS REQUIRED TO MEET FIRE RATING OF RESPECTIVE WALLS. SEE DETAILS ON A10 SERIES SHEETS.
- SEE SHEET CP1.1 FOR LOCATION OF FIRE-RESISTANCE-RATED WALLS. WALLS OF FIRE-RESISTANCE-RATED CONSTRUCTION SHAL EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE. SEAL PENETRATIONS THROUGH FIRE-RESISTANCE-RATED CONSTRUCTIONS WITH THROUGH- PENETRATION FIRESTOP
- MATERIAL AS REQUIRED TO ACHIEVE RESPECTIVE FIRE-RESISTIVE RATING AND SMOKE STOPPAGE. SEE DETAILS ON A10 SERIES K. SEE STRUCTURAL DRAWINGS FOR BRACING OF NONLOAD BEARING MASONRY WALLS.
- FURNISH AND INSTALL FIRE-RETARDANT-TREATED WOOD BLOCKIN OR METAL BACKING PLATE IN STEEL STUD PARTITIONS FOR PROPER ANCHORAGE OF WALL ATTACHED ITEMS; I.E. TOILET ACCESSORIES, TOILET PARTITIONS, CASEWORK, MILLWORK, WALL
- MOUNTED FIXTURES, MARKERBOARDS, TACKBOARDS, DOOR STOPS, AUDIO VISUAL BRACKETS, ETC. M. GYPSUM BOARD AND PLASTER SURFACES SHALL BE ISOLATED WITH CONTROL JOINTS WERE INDICATED ON DRAWINGS AND/OR A DESCRIBED IN THE SPECIFICATIONS.

N. MASONRY CONTROL JOINTS (CJ) AND CONTROL JOINTS ABOVE

BUILDING ELEVATIONS, AND WHERE LARGE PLUMBING VENTS OR RISERS OCCUR IN SINGLE WYTHE MASONRY WALLS, AND WHERE MASONRY WALLS BEARING ON CONCRETE FLOOR SLABS ABUT MASONRY WALLS BEARING ON CONCRETE FOOTINGS OR AS INDICATED ON DRAWINGS. O. INCLUDE OWNER-FURNISHED AND INSTALLED ITEMS AND OWNER

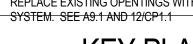
(CJA) SHALL BE LOCATED AS INDICATED ON FLOOR PLANS AND

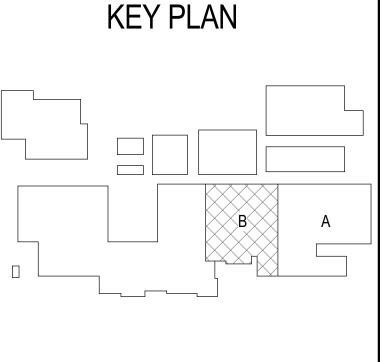
- FURNISHED AND CONTRACTOR INSTALLED ITEMS IN THE CONSTRUCTION SCHEDULE, AND COORDINATE WITH OWNER TO ACCOMMODATE THESE ITEMS. P. COORDINATE MECHANICAL CHASE SIZES WITH MECHANICAL CONTRACTOR.
- Q. COORDINATE WITH MECHANICAL AND ELECTRICAL CONTRACTORS SIZE AND LOCATION OF EQUIPMENT PADS INDICATED ON FLOOR R. "MBD AND TBD" INDICATE MARKERBOARDS AND TACKBOARDS ON FLOOR PLANS. LENGTH PRECEDES THE DESIGNATION (EXAMPLE 16' MBD). BOARDS ARE 48 INCHES TALL. SEE WALL ELEVATIONS
- OR SPECIFICATIONS FOR MOUNTING HEIGHT. ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" EQUALS ACTUAL SITE REFERENCE ELEVATION OF FINISH FLOOR 410.8' FOUND ON THE CIVIL DRAWINGS.
- EXTEND FURRING CHANNELS AND GYPSUM BOARD UP MINIMUM 4 INCHES ABOVE FINISHED CEILING ON CMU WALLS. FIRE-RATED ENCLOSURES AROUND STEEL COLUMNS SHALL BE
- CONTINUOUS FROM FLOOR TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE FOR EACH LEVEL. V. SCRIBE GYPSUM BOARD OF WALL AND PARTITIONS TO IRREGULARITIES OF DECK ABOVE. SEAL TIGHTLY AROUND
- PENETRATIONS. W. PROVIDE SEISMIC BRACING FOR SUSPENDED CEILINGS OR AS INDICATED ON DRAWINGS. X. PAINT ALL WALLS; PAINT ALL HARDLID CEILINGS; PAINT ALL EXPOSED BEAMS @ CEILINGS
- Y. FIELD VERIFY ALL EXISTING DIMENSIONS. Z. SEE FINISH PLANS FOR ADDITIONAL INFORMATION, INCLUDING PRACTICE GAMES LINES AND PE COURT LINES.

KEYNOTES

- 1. DASHED LINE INDICATES AREA OF WORK 2. NEW FINISH FLOOR, PER FINISH FLOOR PLANS NEW FLOOR TILE THROUGHOUT TOILET & DRYING ROOMS 4. PRESSURE WASH EXISTING SHOWER ROOM PROVIDE CURTAIN & ROD @ SHOWER DOOR NEW DOOR ONLY (KEEP FRAME)
- FIELD VERIFY LOCATION OF EXISTING CONCRETE BASES & PLACE NEW LOCKERS ON TOP, WHERE OCCURS 8. CANOPY EDGE ABOVE, SEE ROOF PLAN 9. EXISTING 2 HOUR WALL FOR BUILDING SEPARATION 10. NEW 2 HOUR WALLS FOR BUILDING SEPARATION
- 11. NEW 90 MINUTE DOOR (ON MAG HOLD OPENS IF DISTRICT WANT TO LEAVE OPEN) 12. BOTTLE FILLER & DRINKING FOUNTAIN COMBINATION 13. FLOOR TRANSITION 14. T-SHAPED TURNING RADIUS PER ANSI A117.1 304.3.2. 15. REFRIGERATOR, OFOI
- 16. OVERHEAD COILING DOOR 17. AWNING EDGE ABOVE, SEE ROOF PLAN 18. COLUMN LOCATION PER STR 19. RETRACTABLE SEATING

20. NEW RAMP AND STAIR HANDRAILS @ ALTERNATE #1 21. FIRE EXTINGUISHER CABINET 22. REPLACE EXISTING OPENTINGS WITH FIRE RATED GLAZING





FLOOR PLAN - AREA B - ALTERNATE #1

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

(E) SENIOR HALL LOBBY 105 (E) ATTENDANCE A7.2 (E) BOOKKEEPER TYP OF 5 (E) ADMIN RECEPTION AROUND COLUMN SEE A1.2 BASE BID FLOOR PLAN FOR DIMENSIONS AND

2 HOUR FIRE WALL

@ ALTERNATE

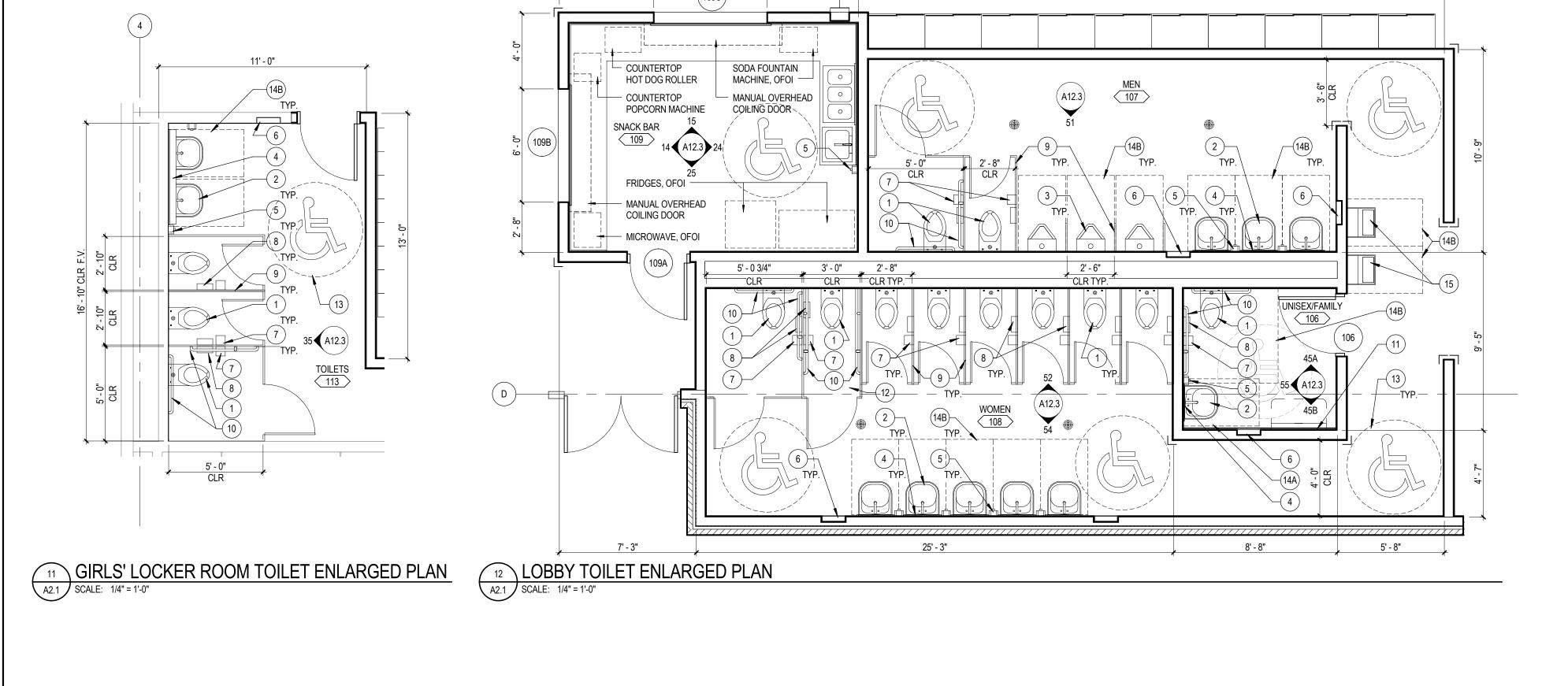
GYMNASIUM

(100B)

(E) FRESHMAN

FURTHER INFORMATION FOR AREA NORTH OF GRID D

ENLARGED PLELMIRA HIG



KEYNOTES: ENLARGED RESTROOM PLAN

 TOILET
 SINK
 URINAL MIRROR LIQUID SOAP DISPENSER
RECESSED TOWEL DISPENSER & WASTE RECEPTACLE

TOILET PAPER DISPENSER 8. SANITARY NAPKIN DISPOSAL
9. RESTROOM STALL PARTITION
10. ADA GRAB BARS

11. BABY CHANGING STATION
12. AMBULATORY ACCESS STALL
13. WHEELCHAIR CLEARANCE CIRCLE
14. A. 60" x 60" FIXTURE CLEARANCE
B. 48" x 30" FIXTURE CLEARANCE

SEMI-RECESSED TOWEL AND WASTE RECEPTACLE SURFACE MOUNTED TOILET PAPER DISPENSER UTILITY SHELF

SEMI-RECESSED WASTE RECEPTACLE

TOILET ACCESSORIES SCHEDULE MOUNTING HEIGHT ABBR. BCS GB-1 <u>DESCRIPTION</u> BABY CHANGING STATION GRAB BAR (SIDE WALL) 2' - 9" TO CL GB-2 GB-3 GRAB BAR (BACK WALL) GRAB BAR (VERTICAL) GB-4 GRAB BAR (AMBULATORY STALL) GB-5 GRAB BAR (SHOWER) ADA ACCESSIBLE HEIGHT ELECTRIC HAND DRYER MOP / BROOM HOLDER 3' - 4" TO BOTTOM OF REFLECTING SURFACE MIRROR ROBE HOOK SEAT COVER DISPENSER LIQUID SOAP DISPENSER SHOWER CURTAIN ROD SANITARY NAPKIN DISPOSAL NAPKIN/TAMPON VENDOR SEMI-RECESSED TOWEL DISPENSER



SHOWER ENCLOSURE ELEV. SH

WC (HC)

CALLOUTS ON PLANS INDICATE TYP. ITEMS, PROVIDE ALL ITEMS SHOWN FOR A COMPLETE INSTALLATION.

LAV

3' 0" MIN

WC (HC)

HD (HC)

HD

SNV

BCS

2. PROVIDE INSULATION AT ALL EXPOSED HOT WATER AND DRAIN PIPES PER ADA/ADAAG 4.24.6

WR TD

SCD

4' - 0" MAX 3' - 2" MIN

3' - 4" MAX 3' - 2" MIN

LAV

LEGEND NOTES

LEGEND NOTES ARE COMMON TO ALL SOME NOTES MAY NOT APPLY TO THIS SHEET

REFLECTED CEILING PLAN GENERAL NOTES A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL

REFLECTED CEILING PLAN SHEETS. B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH

- ROOM UNLESS NOTED OTHERWISE. C. CEILING HEIGHTS ARE AS NOTED ON THE REFLECTED CEILING PLAN UNLESS NOTED OTHERWISE. D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER
- HEADS, ETC. SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3" RADIUS CENTERED BETWEEN CEILING GRIDS. E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCED IN NOTED, IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH ARCHITECT.
- F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, ETC. AT ACOUSTICAL PANEL CEILINGS.

G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE: 1. FACE OF FINISHED WALL 2. FACE OF FINISHED BULKHEADS

3. CENTERLINE OF COLUMNS 4. CENTERLINE OF TEES H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK, AND ELECTRICAL FIXTURES WITH EACH RESPECTIVE SUBCONTRACTOR. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN. 4" ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF STRUCTURE.

KEYNOTES

1. NEW GYPSUM BOARD CEILING, PAINTED 2. EXISTING CONDITIONS, EXPOSED STRUCTURE TO REMAIN IN STORAGE AREAS 3. EXISTING CONDITIONS TO REMAIN. APPLY FRESH PAINT TO

GYPSUM BOARD 4. EXISTING CONDITIONS, EXPOSED STRUCTURE TO REMAIN. APPLY FRESH PAINT TO GYPSUM BOARD & STRUCTURE

5. DASHED LINE INDICATES EXTENTS OF CEILING WORK 6. CEILING GRID TIGHT TO STRUCTURE OR 9' - 0", WHICHEVER IS LOWER 7A. BASKETBALL HOOP EQUIPMENT ATTACHED TO ROOF STRUCTUR 7B. BASKETBALL HOOP EQUIPMENT ATTACHED TO WALL 8. LIGHT FIXTURE, PER ELEC DRAWINGS 9. CEILING FAN, PER MECH DRAWINGS 10. MECHANICAL DUCTWORK, PER MECH DRAWINGS 11. SKYLIGHT, TYP. OF 10

12. WALKWAY CANOPY 13. AWNING ABOVE DOOR. SEE A4.2 14. GYPSUM LID DIRECTLY ABOVE DISPLAY CASES 15. LADDER W/ ROOF HATCH ABOVE 16. DOWNSPOUT 17. ACCESS PANEL

18. NEW ROOF DRAIN AND PIPING TO DRAIN EXISTING ROOF. SEE PLUMBING DRAWINGS AND COORDINATE ROOF & CEILING PATCHING AND REPAIR WITH OWNER. R-F1 ROOF TYPE ACROSS FRESHMAN HALL FROM GRID C SOUTH. SEE A0.1 AND 25/A10.2

REFLECTED CEILING PLAN LEGEND

GYPSUM BOARD CEILING WOOD CEILING

OTS OPEN TO STRUCTURE

WOOD

10' - 0"

WOOD 10' - 0"

RCP - AREA B - ALTERNATE #1

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

GWB 7' - 6"

WOOD

(E) FRESHMAN

APC 9' - 0"

LEGEND NOTES

LEGEND NOTES ARE COMMON TO ALL SOME NOTES MAY NOT APPLY TO THIS SHEET

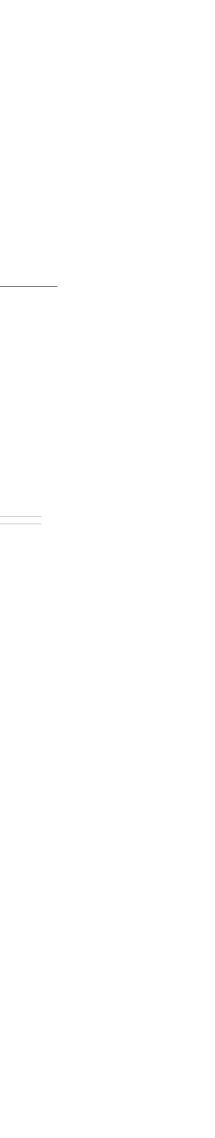
- **ROOF PLAN GENERAL NOTES** A. ROOF PLAN NOTES APPLY TO ALL ROOF PLAN SHEETS. B. MOST ROOF SLOPES ARE CREATED BY SLOPING THE ROOF STRUCTURE. SEE STRUCTURAL DRAWINGS FOR ELEVATIONS OF THE HIGH AND LOW POINTS TO DETERMINE PROPER TAPER IN INSULATION. SHADED AREAS INDICATE TAPERED INSULATION. TAPERED INSULATION SHALL PROVIDE A MINIMUM OF 1/4-INCH PER FOOT OF SLOPE TO ROOF DRAINS, UNLESS NOTED OTHERWISE.
- C. ALL ROOF CURBS TO BE A MINIMUM OF 8" ABOVE ROOFING LEVELS. PROVIDE TAPERED INSULATION ROOF SADDLES AT ROOF CURBS TO PROVIDE APPROPRIATE DRAINAGE. D. SEE STRUCTURAL FOR FRAMING AROUND ROOF
- PENETRATIONS. E. COORDINATE THE SIZE AND LOCATION OF ROOF
- PENETRATIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR PENETRATIONS NOT SHOWN ON THIS
- F. FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON PLANS. G. NO ROOF PENETRATIONS ALLOWED WITHIN 5'-0" EACH SIDE

OF 2-HOUR AREA SEPARATION WALL AND 2-HR FIREWALL. SEE CODE PLAN FOR WALL LOCATIONS.

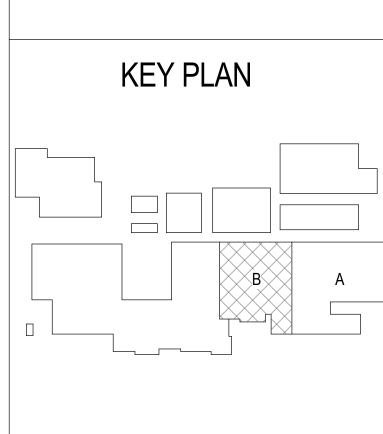
KEYNOTES

- 1. SLIP-RESISTANT ACCESS PATH TO MECH UNIT, 2' 6" WIDE U.N.O.
- ACCESS LADDER TO GYM ROOF 3. ACCESS HATCH, PROVIDE CRICKETS FOR PROPER DRAINAGE 4. SLOPE BUILT-UP INSULATION TO DRAINS. TAPERED INSULATION INDICATED BY CROSSHATCH
- 5. BUILT-UP INSULATION RIDGE IN CENTER OF LOWER ROOF 6. SKYLIGHT, TYP. OF 10. PROVIDE CRICKETS FOR PROPER RAINWATER DRAINAGE. 7. WALKWAY CANOPY PER STR - SEE DETAIL 44/A4.2 8. AWNING ABOVE DOOR
- EXISTING ROOF EXISTING CANOPY 11. GUTTER W/ DOWNSPOUTS - DOWNSPOUTS TO BE ALIGNED W/ ADJACENT COLUMNS 12. ROOF DRAIN 12A. DEMO EXISTING ROOF DRAIN & RELOCATE NEW ROOF DRAIN
- W/ OVERFLOW TO BE 4' 0" MIN. FROM NEW FIRE WALL 13. ROOFTOP MECHANICAL UNIT, PER MECHANICAL DRAWINGS SCUPPER & DOWNSPOUT 15. ROOFTOP MECHANICAL / RELOCATED AIR INTAKE FROM DEMOLISHED WALL MOUNTED LOUVERS. 16. R-F1 ROOF TYPE ACROSS FRESHMAN HALL FROM GRID CSOUTH.

SEE A0.1 AND 25/A10.2



9





A7.2

9

VERTICAL METAL WALL PANEL

METAL BASE FLASHING PER MFR

VAPOR PERMEABLE AIR BARRIER - WRAP DOWN & OVER FLASHING WHERE OCCURS

"J" BASE TRIM PER MFR W/ WEEP HOLES

A4.3

ROOFING MEMBRANE -

PROTECTION BOARD

METAL COPING

CLEAT & FASTENERS

AUXILIARY

GYMNASIUM

VERTICAL METAL

WALL PANEL

GENERAL NOTES

- ACTUAL SITE REFERENCE ELEVATION OF FINISH FLOOR 410.8'
- ELEVATION SHEETS. B. ARCHITECTURAL FINISH FLOOR ELEVATION 100'-0" EQUALS FOUND ON THE CIVIL DRAWINGS.

KEYNOTES

ENTRY STAIRS

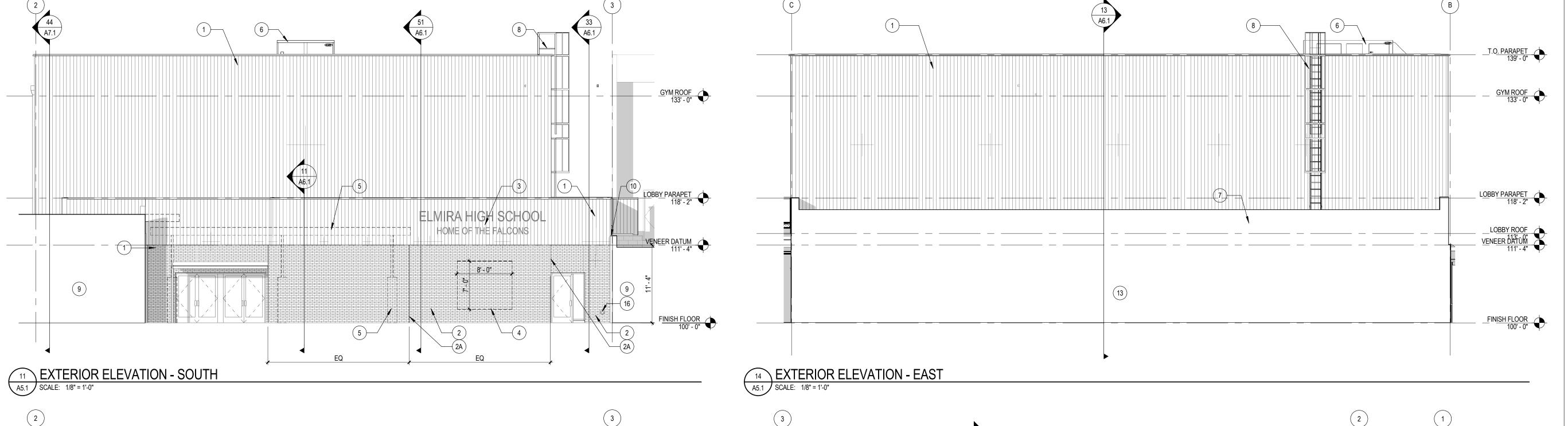
- 1. VERTICAL METAL SIDING W/ FOUR PANEL OPTIONS, SEE 41/A5.1 FOR MODULE LAYOUT
- BRICK VENEER 2A. CONTROL JOINT. ALIGN BEHIND DOWNSPOUTS ON WEST ELEVATION.
- PROVIDE ALLOWANCE FOR MAIN ENTRY TEXT SIGNAGE USING CUT METAL LETTERS, STAND-OFF W/ BLIND STUDS PROVIDE ALLOWANCE FOR SUPER GRAPHIC SIGNAGE (FALCON LOGO)
- EXISTING CANOPY & STRUCTURE IN FOREGROUND MECHANICAL UNIT BEYOND
- ROOF ACCESS HATCH
- ACCESS LADDER W/ PROTECTIVE CAGE SURROUND EXISTING BUILDING 10. SEISMIC JOINT COVER
- 11. SCUPPER & DOWNSPOUT12. METAL AWNING. SEE 14/A4.2. 13. SEE BUILDING SECTIONS (A6 SERIES DRAWINGS) FOR CUT THROUGH GYMNASIUM STORAGE ROOMS, ETC. 14. ALTERNATE #1: PROVIDE NEW RAILING AROUND COLUMN AT
- BRICK ROW BELOW VENEER DATUM 16. OVERFLOOR DOWNSPOUT NOZZLE PER PLUMBING. 7. PARAPET HEIGHT TO BE 30" ABOVE ADJACENT EXISTING ROOF. FIELD VERIFY EXISITNG ROOF HEIGHT FOR NEW PARAPET DIMENSIONS

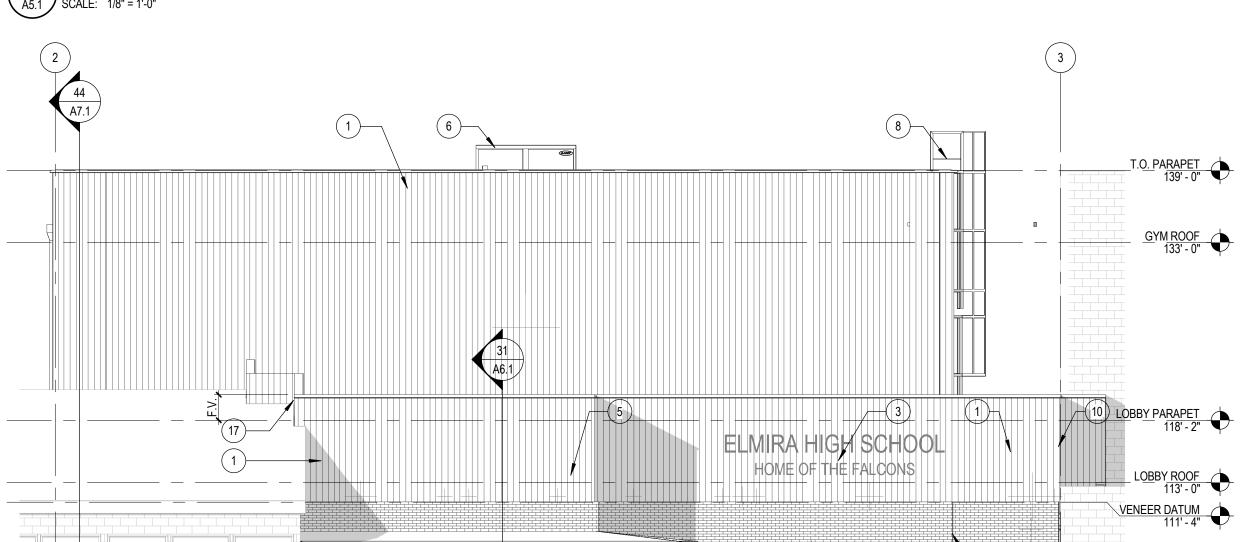
COLORS: - VERTICAL METAL SIDING: BASIS OF DESIGN = AEP SPAN BRAND COOL JADE GREEN

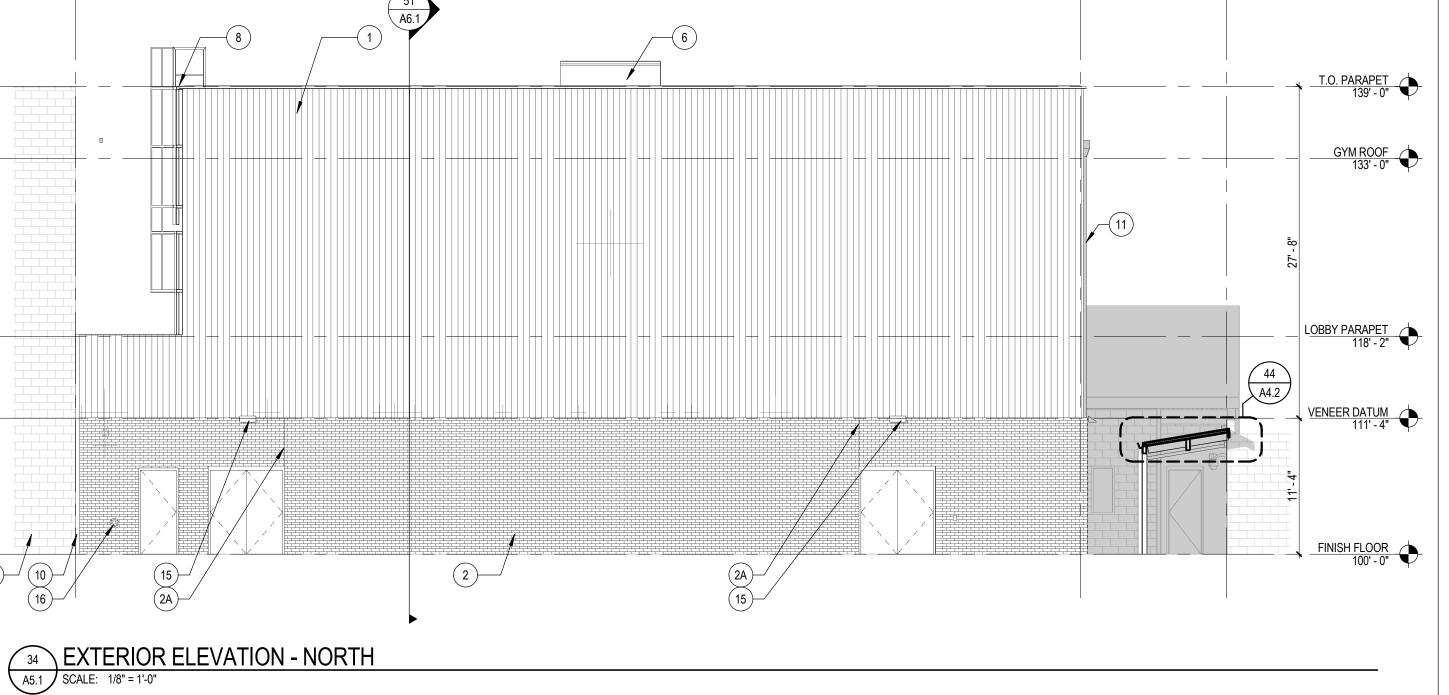
- FLASHING: TO MATCH VERTICAL METAL SIDING COLOR BRICK VENEER: BASIS OF DESIGN = MUTUAL MATERIALS
- STOREFRONT & ALUMINUM EXTERIOR DOOR FRAMES: BASIS OF DESIGN = KAWNEER BRAND DARK BRONZE EXTERIOR ACCESS LADDER & SAFETY SURROUND = BASIS OF DESIGN COLOR = AEP SPAN BRAND OLD ZINC GREY
- CANOPY ROOFS = GALVANIZED METAL PER STRUCTURAL PAINTED WHITE CANOPY COLUMNS = METAL POSTS PER STRUCTURAL PAINTED DARK GREEN TO MATCH (GREEN) VERTICAL METAL

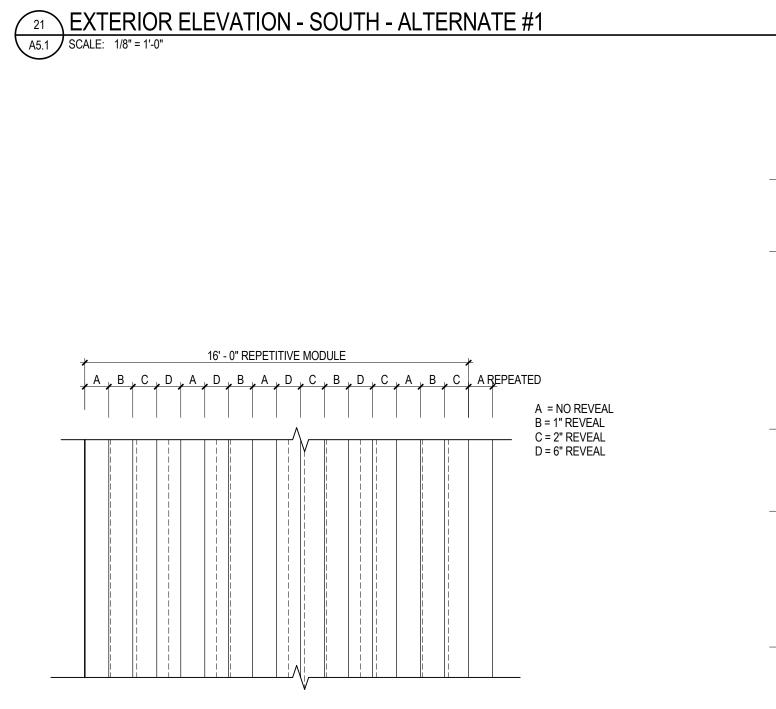
BRAND COLUMBIA RED

PAINTED HOLLOW METAL DOORS: DARK BRONZE TO MATCH ALUMINUM FRAMES

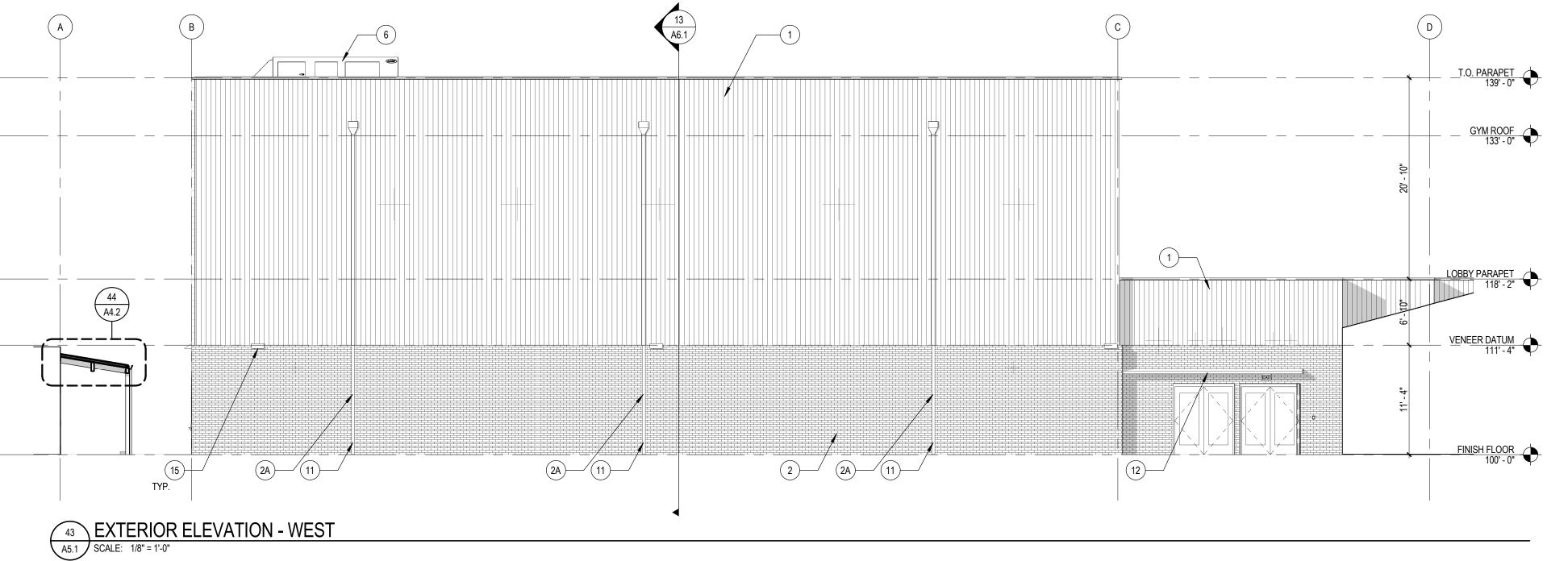


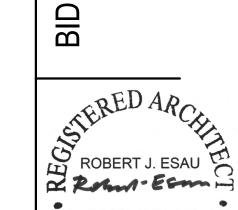


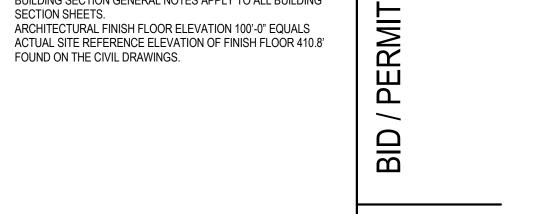




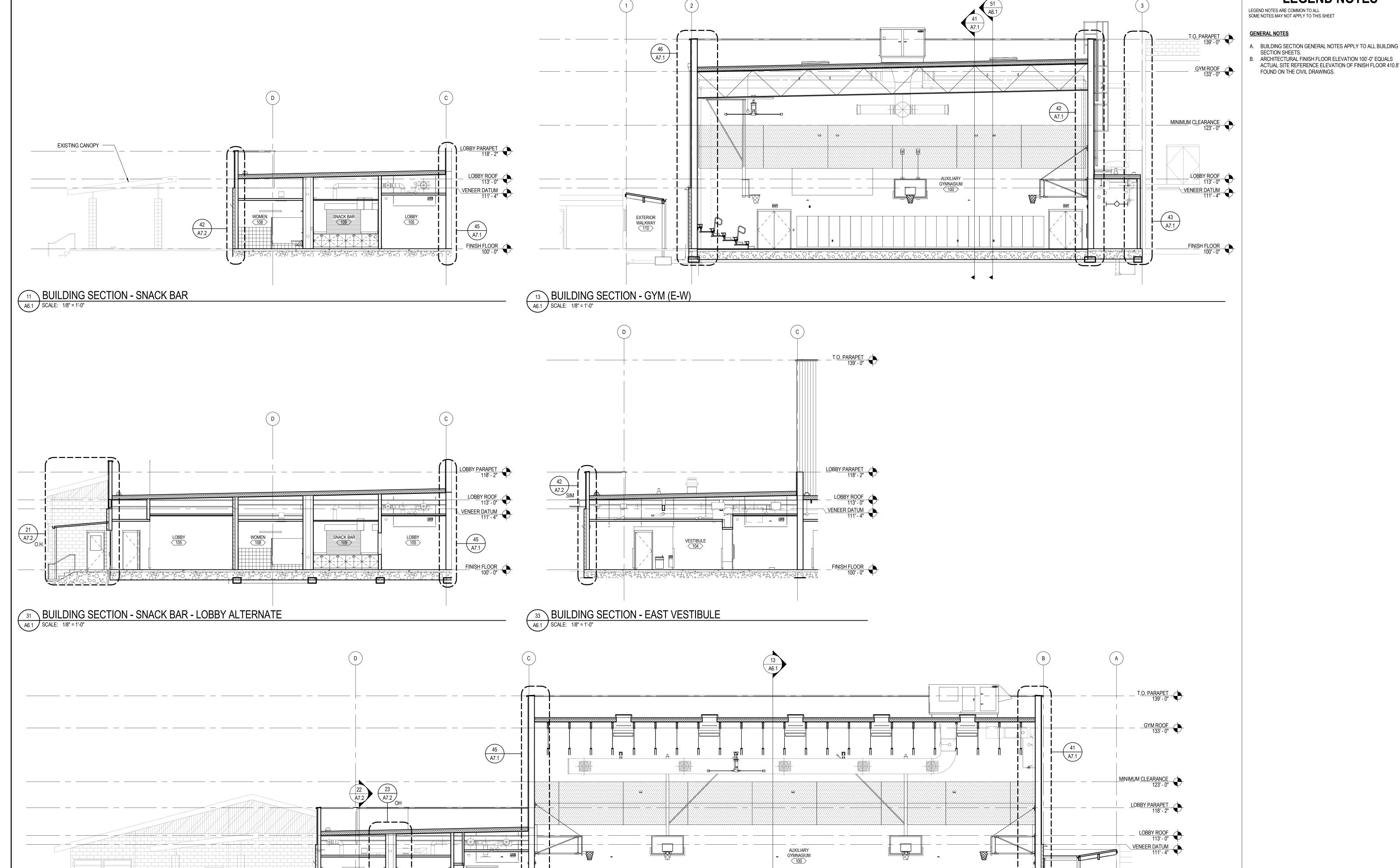
41 ELEVATION DIAGRAM - SIDING LAYOUT
A5.1 SCALE: 1/4" = 1'-0"





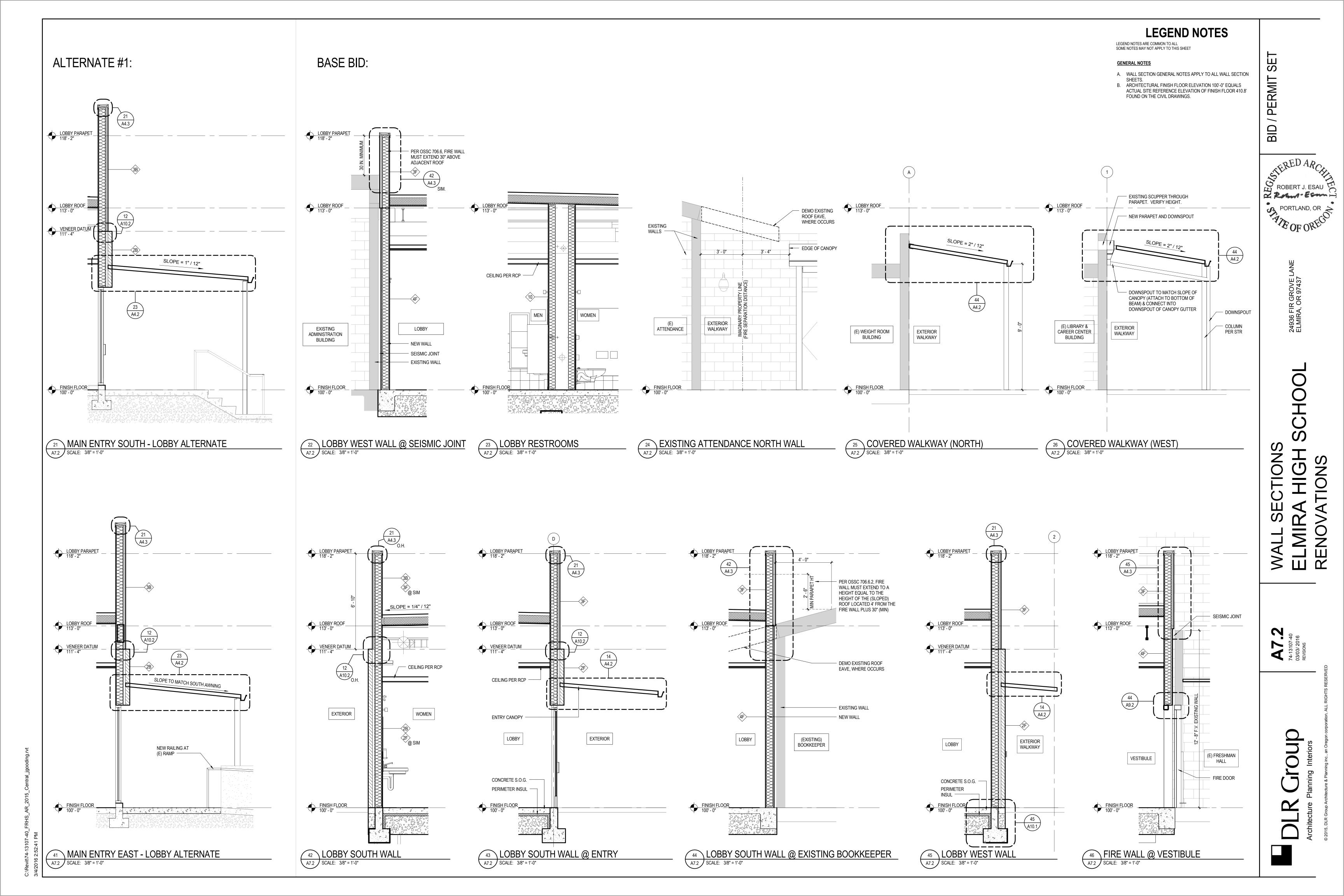


LEGEND NOTES



51 BUILDING SECTION - GYM (N-S)

RENOV/



DÓOR PÈR

SCHEDULE

S01

SKYLIGHT, SHOWN IN PLAN (TYP OF 10)

PER SCHED 1'-9"

DÓOR PÈR

,SCHEDULE,

W01

7' - 4" TO T.O. FR/

7' - 4" TO T.O. FRA

DOOR PER SCHEDULE









	IVIZ	IXIX IVI/XI	LIVIAL TILAD	UNIVID ELI I	JANUD MOITI	OILL		OOMMENTO		NUMBER	PANELS	WIDTH	HEIGHT	THICKNES	S MATERIAL	TYPE MATI	RIAL TYPE	RATING	HEAD	LEFT	RIGHT	SILL	COMMENTS
	W0	1 ALUM	12/A9.2	22/A9.2	22/A9.2	32/A9.2												I					
	Wo	2 ALUM	12/A9.2	22/A9.2	22/A9.2	31/A9.2				100A	2	3' - 0"	7' - 0"	1 3/4"	WD	С НМ	2		15/A9.2	25/A9.2	25/A9.2		
			127.00							100B	1	3' - 0"		1 3/4"	WD	С НМ	1		15/A9.2	25/A9.2	25/A9.2		
										100C	2	3' - 0"	7' - 0"	1 3/4"	HM	A HM	2		14/A9.2	24/A9.2	24/A9.2	34/A9.2	EGRESS DOOR; NO EXTERIOR HARDWARE
										100D	2	3' - 0"	7' - 0"	1 3/4"	НМ	A HM	2		14/A9.2			34/A9.2	EGRESS DOOR; NO EXTERIOR HARDWARE
										100E	1	3' - 0"	7' - 0"	1 3/4"	WD	A -	(EXISTIN	IG)	44/A9.2	45/A9.2	45/A9.2		NEW DOOR ONLY; KEEP EXISTING FRAME
										101	2	3' - 0"	7' - 0"	1 3/4"	WD	A HM	2		15/A9.2	25/A9.2	25/A9.2		
										101A	1	3' - 0"	7' - 0"	1 3/4"	HM	A HM	4		14/A9.2	24/A9.2	24/A9.2	34/A9.2	
										102	2	3' - 0"	7' - 0"	1 3/4"	WD	A HM	2		15/A9.2	25/A9.2	25/A9.2		
										103	2	3' - 0"	7' - 0"	1 3/4"	WD	A HM	2		15/A9.2	25/A9.2	25/A9.2		
										103A	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
										103B	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1						
										104A	1	3' - 0"	7' - 0"	1 3/4"	ALUM	B ALUN	W01		11/A9.2	21/A9.2	21/A9.2	31/A9.2	EGRESS DOOR; NO EXTERIOR HARDWARE
										104B	2	3' - 0"	7' - 0"	1 3/4"	HM	D HM	2	90 MIN	44/A9.2	45/A9.2	45/A9.2		90 MIN FIRE DOOR; EGRESS DOOR
										105A	2	3' - 0"	7' - 4"		ALUM	B ALUN	W02		23/A4.3	21/A9.2		31/A9.2	
										105B	2	3' - 0"	7' - 4"	2"	ALUM	B ALUN	W02		23/A4.3	21/A9.2		31/A9.2	
										105D	2	3' - 0"	7' - 0"	1 3/4"	ALUM	B ALUN	2		11/A9.2	21/A9.2	21/A9.2	31/A9.2	EGRESS DOOR (WEST TO EAST); LOCKABLE FROM THE INSIDE DURING OBUT MUST REMAIN EGRESS DOOR IF PEOPLE ARE COMING FROM THE O
										105E	2	3' - 0"	7' - 0"	1 3/4"	ALUM	B ALUN	1 2		11/A9.2	21/A9.2	21/A9.2	31/A9.2	
							COILING DOOR ENCLOSURE		COILING DOOR ENCLOSURE	105H		5' - 0"	4' - 0"		STL	STL		90 MIN		42/A9.2	42/A9.2		FIRE SHUTTER
DED	DED		DED	DED	DED C	/	PER MFR	2'-6"	PER MFR	106	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
PER SCHEDULE	PER SCHEDULE	7	SCHEDULE	PER SCHEDULE	PERS	SCHEDULE				109A	1	3' - 0"		1 3/4"	WD	A HM	1			25/A9.2			
		5" -	<u>,</u> 5"	4"6"	F+					109B		6' - 0"	4' - 0"		STL	E STL			13/A9.2	23/A9.2	23/A9.2	33/A9.2	OVERHEAD COILING DOOR
3		7							.	109C		6' - 0"	4' - 0"		STL	E STL			13/A9.2	23/A9.2	23/A9.2	33/A9.2	OVERHEAD COILING DOOR
										112	1	3' - 0"	7' - 0"	1 3/4"	WD	C -	(EXISTIN	IG)					NEW DOOR ONLY; KEEP EXISTING FRAME
ا أُمَّا الله	/11	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							EXISTING WINDOW	113	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2	35/A9.2	
	/			\				0-	BEHIND	114	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
				-				5 >		117A	1	3' - 0"	7' - 0"		WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
	(//,				<u> </u>			4" 4		117B	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
	''	등	[\	SC			7' -		118	1	3' - 0"	7' - 0"	1 3/4"	WD	A HM	1		15/A9.2	25/A9.2	25/A9.2		
	<u> </u>	PER 9	\\				-					<u> </u>				-		'					
		g 6			<u>~</u>		FLUSH W/ COUNTER HEIGHT	2' - 0" F.V.	FLUSH W/														
		70					COUNTER	P.V.	COUNTER														
							HEIGHT	-2	HEIGHT														
<u> </u>		+			- *			-+	\														
A	В		$\left(\begin{array}{c} \mathbf{c} \end{array}\right)$	D		E		F										_DOOR AND FE	RAME SCHE	DULE - ALTE	RNATE_		
				90 MIN. FIRE DOOR =		BAR WINDOW		FIRE SHUTTER					DOOR PA	MEI			FRAME			DETA	VII C		
				100 SQ. IN. GLAZING MAX				(BOOKKEEPER)			NO. OF		DOOK PA	NINLL			I IVAIVIE	FIRE					
										NUMBER		WIDTH	HEIGHT	THICKNES	SMATERIAL	TYPE MATE	RIAL TYPE		HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
										HOMBER	. , ,	****	111210111		, , , , , , , , , , , , , , , , , , ,	= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			112,12			U.L.L	OOMMENTO

100A

100B

100C

100D

100E

101A

103A

103B

104A

104B

105A

105B

105D

105E

105G

106 109A

109B

109C 112 113 114 117A 117B 118

- . . .

3' - 0"

3' - 0"

3' - 0"

3' - 0" 7' - 0"

3' - 0" 7' - 0"

3' - 0" 7' - 0"

6' - 0" 4' - 0"

6' - 0" 4' - 0"

|3' - 0" | 7' - 4" | 2"

3' - 0" 7' - 0" 1 3/4"

7' - 0"

3' - 0" 7' - 0" 1 3/4"

3' - 0" | 7' - 0" | 1 3/4"

3' - 0" 7' - 0" 1 3/4"

3' - 0" 7' - 0" 1 3/4"

3' - 0" 7' - 0" 1 3/4" 3' - 0" 7' - 0" 1 3/4"

22' - 10 1/8"

W04 @ ALTERNATE #1

3 EQ @ 15' - 7"

7' - 0"

7' - 0"

7' - 0" 7' - 0"

7' - 0"

7' - 4"

7' - 0" 1 3/4"

7' - 0" 1 3/4"

DOOR PANEL

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

1 3/4"

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DOOR PER SCHEDULE

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ALUM W04

Α

	FRAME		DE	ΓAILS		
MARK	MATERIAL	HEAD	JAMB LEFT	JAMB RIGHT	SILL	COMMENTS
		_				
W01	ALUM	12/A9.2	22/A9.2	22/A9.2	32/A9.2	
W02	ALUM	12/A9.2	22/A9.2	22/A9.2	31/A9.2	

DÓOR PÈR

SCHEDULE

/_ ___ _`

4

DOOR PER SCHEDULE

DOOR PER SCHEDULE

W03 @ ALTERNATE #1

NOT USED

3

SEE 12/CP1.1 FOR

FURTHER INFORMATION

WE02

REPLACE EXISTING

WINDOW WITH FIRE

PROTECTED OPENING

(TYPICAL OF 2)

. . .

_-----

6' - 4"

DOOR PER SCHEDULE

─ ALUM. SPACER PER STOREFRONT MFR

⟨W02⟩ @ BASE BID

WE01

REPLACE EXISTING

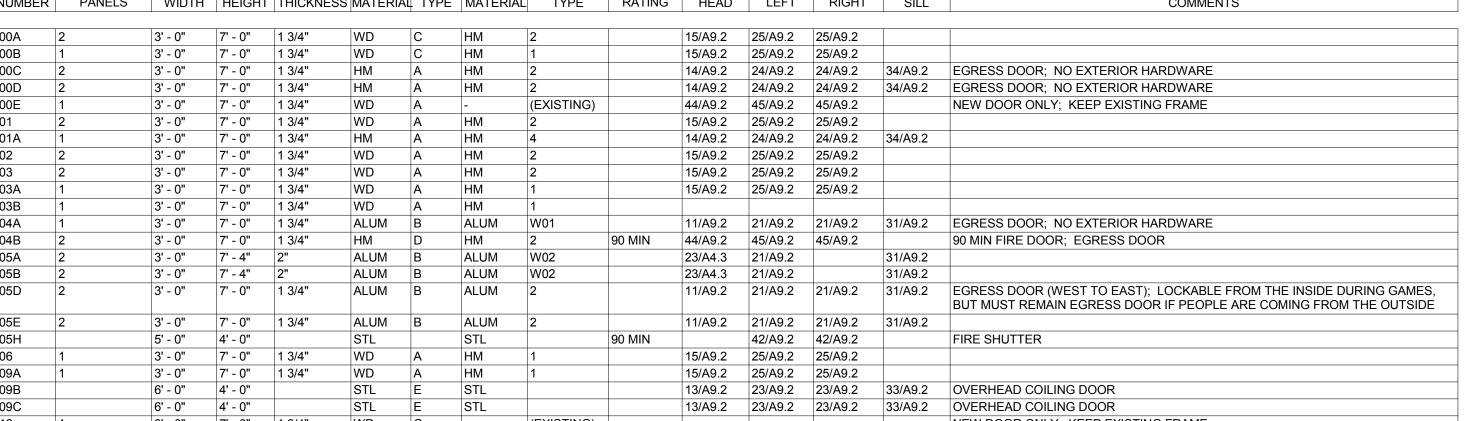
WINDOW WITH FIRE

PROTECTED OPENING

(TYPICAL OF 2)

/DOOR PER SCHEDULE

2



90 MIN 15/A9.2 25/A9.2 25/A9.2

44/A9.2

11/A9.2

11/A9.2

15/A9.2 25/A9.2 25/A9.2

44/A9.2 45/A9.2 45/A9.2

15/A9.2 25/A9.2 25/A9.2

15/A9.2 25/A9.2 25/A9.2

15/A9.2 25/A9.2 25/A9.2

15/A9.2 25/A9.2 25/A9.2

14/A9.2 24/A9.2 24/A9.2 34/A9.2

45/A9.2 45/A9.2

11/A9.2 21/A9.2 21/A9.2 31/A9.2

11/A9.2 21/A9.2 21/A9.2 31/A9.2

42/A9.2 42/A9.2

13/A9.2 23/A9.2 23/A9.2 33/A9.2

15/A9.2 25/A9.2 25/A9.2 35/A9.2

13/A9.2 23/A9.2 23/A9.2 33/A9.2 OVERHEAD COILING DOOR

15/A9.2 25/A9.2 25/A9.2

90 MIN

90 MIN

(EXISTING)

W03

(EXISTING)

DOOR AND FRAME SCHEDULE

DETAILS

JAMB JAMB

EGRESS DOOR (WEST TO EAST); LOCKABLE FROM THE INSIDE DURING GAMES,

BUT MUST REMAIN EGRESS DOOR IF PEOPLE ARE COMING FROM THE OUTSIDE

FIRE DOORS @ ALTERNATE #1

FIRE DOORS @ ALTERNATE #1

NEW DOOR ONLY; KEEP EXISTING FRAME

90 MIN FIRE DOOR; EGRESS DOOR

NEW DOOR @ ALTERNATE #1

11/A9.2 31/A9.2 LOCKED DURING SCHOOL HOURS @ ALTERNATE #1

11/A9.2 21/A9.2 21/A9.2 31/A9.2 @ ALTERNATE #1: WILL NEED TO BUZZ PEOPLE IN THIS DOOR THROUGH ADMIN (TO ENTER THROUGH DOOR 105C INTO LOBBY) DURING SCHOOL HOURS

OVERHEAD COILING DOOR

FIRE SHUTTER

31/A9.2 LOCKED DURING SCHOOL HOURS @ ALTERNATE #1

31/A9.2 LOCKED DURING SCHOOL HOURS @ ALTERNATE #1

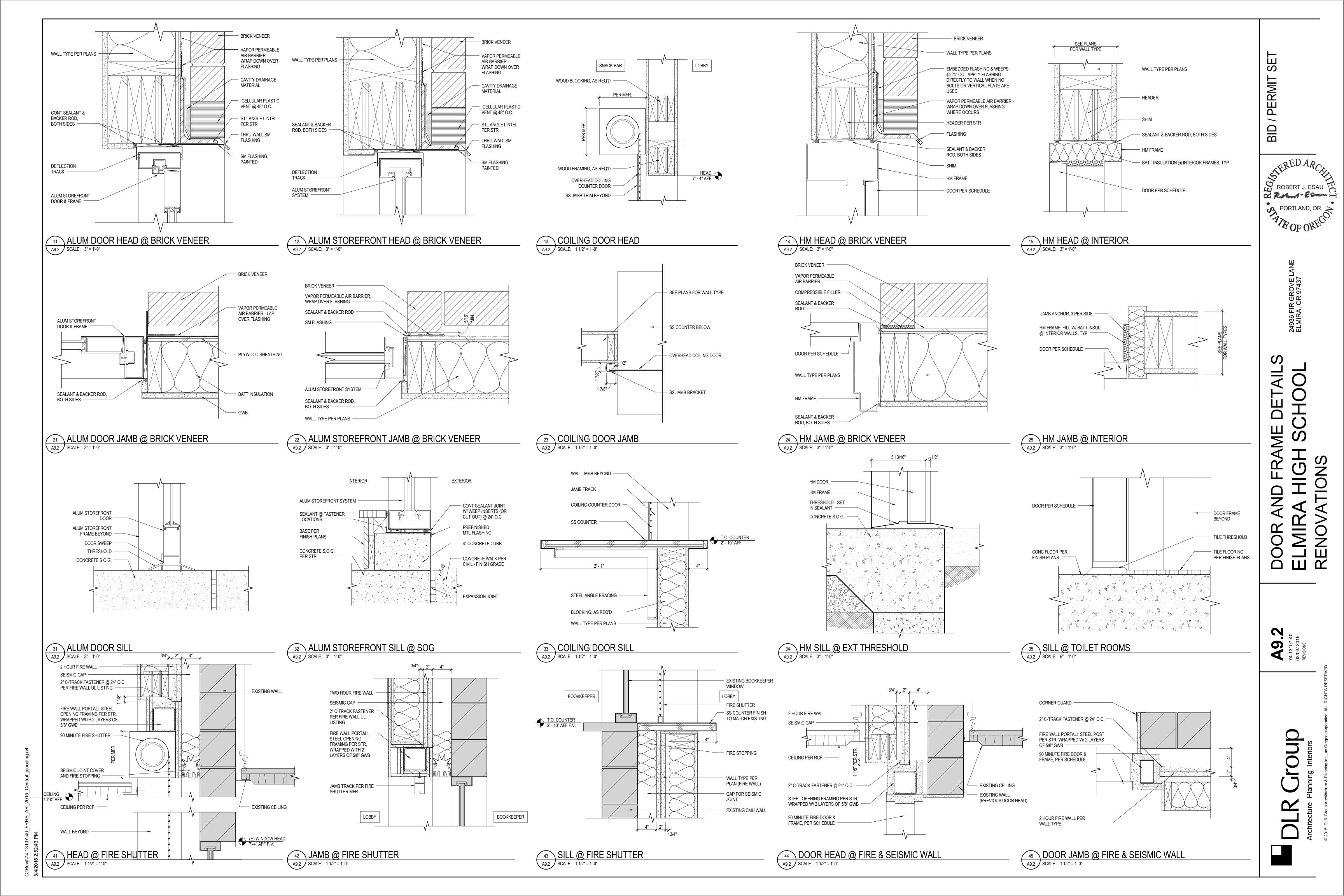
NEW DOOR ONLY; KEEP EXISTING FRAME

14/A9.2 24/A9.2 24/A9.2 34/A9.2 EGRESS DOOR; NO EXTERIOR HARDWARE

14/A9.2 24/A9.2 24/A9.2 34/A9.2 EGRESS DOOR; NO EXTERIOR HARDWARE

11/A9.2 21/A9.2 21/A9.2 31/A9.2 EGRESS DOOR. NO EXTERIOR HARDWARE

PORTLAND, OR OF OF OF OREGIN

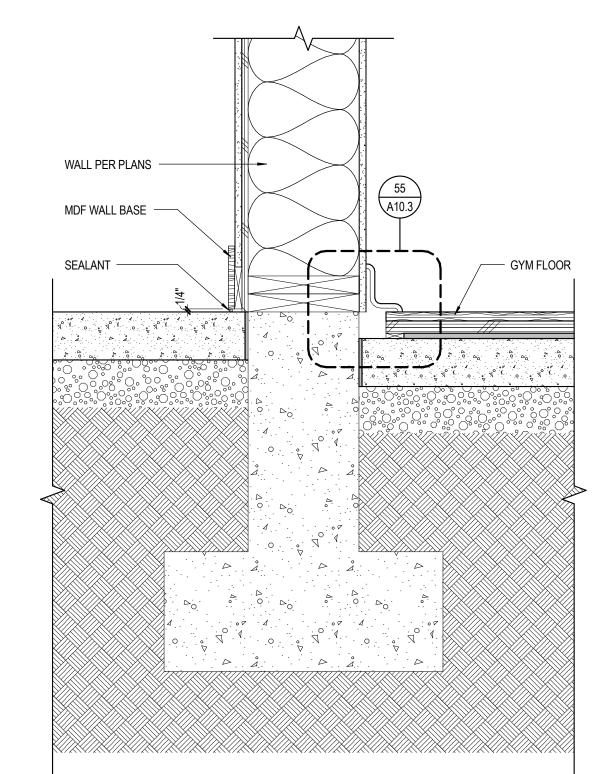




FOUNDATION @ GYMNASIUM DEPRESSED SLAB

SCALE: 1 1/2" = 1'-0" TYPICAL FOUNDATION DETAIL @ BRICK VENEER

A10.1 SCALE: 1 1/2" = 1'-0"



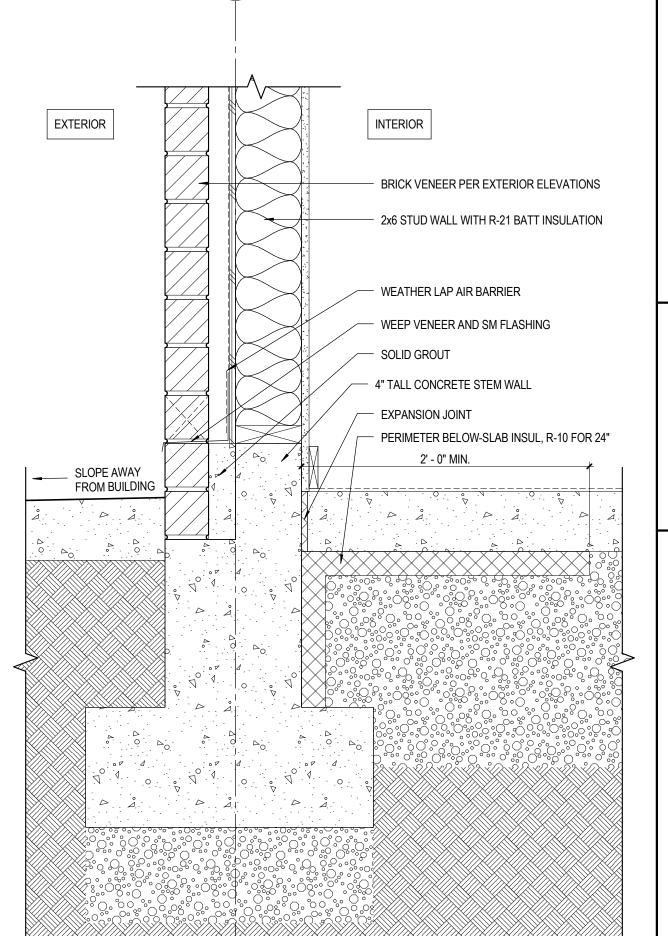
EXISTING RETAINING WALL — BEHIND. PROVIDE 2" CLEARANCE BETWEEN RAILING AND WALL.

2" DIAMETER GALVANIZED METAL HANDRAIL AT EXISTING RAMP -

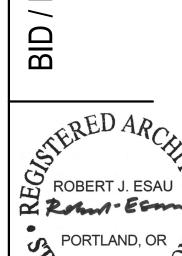
EMBED POSTS IN EXISTING CONCRETE, TYP.

EXTERIOR RAMP HANDRAIL

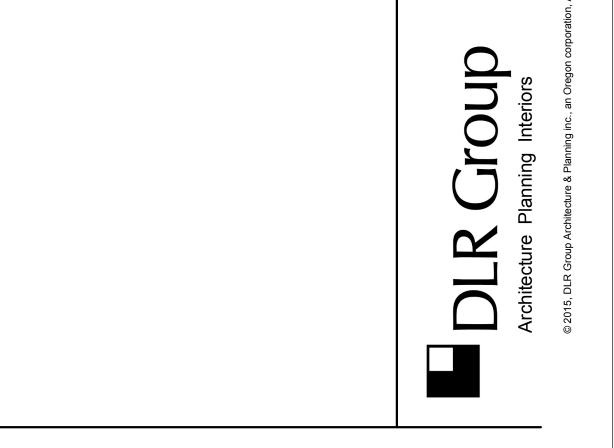
A10.1 SCALE: 1/2" = 1'-0"

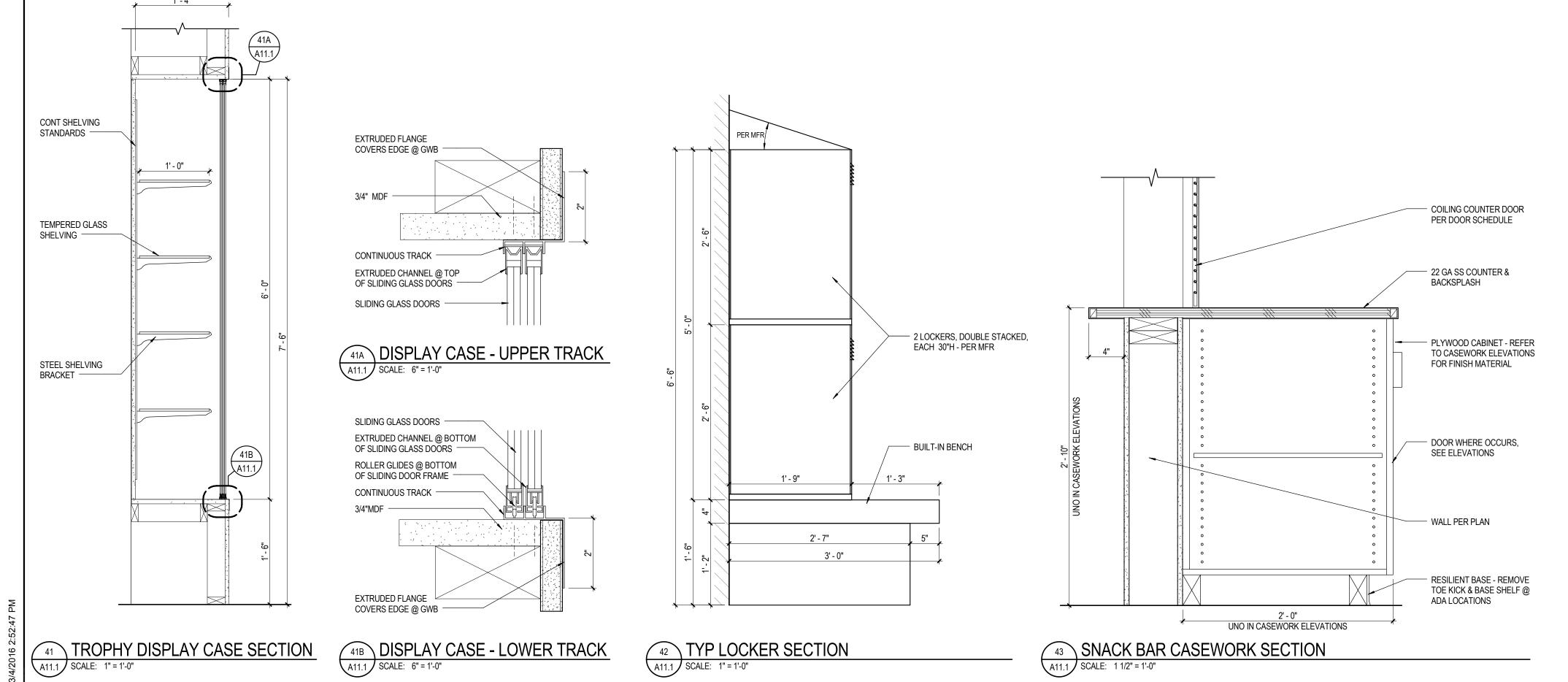


1:12 MAX SLOPE











RELEVATIONS
HIGH SCHOOTIONS
TIONS





GYM ROOF 133' - 0"

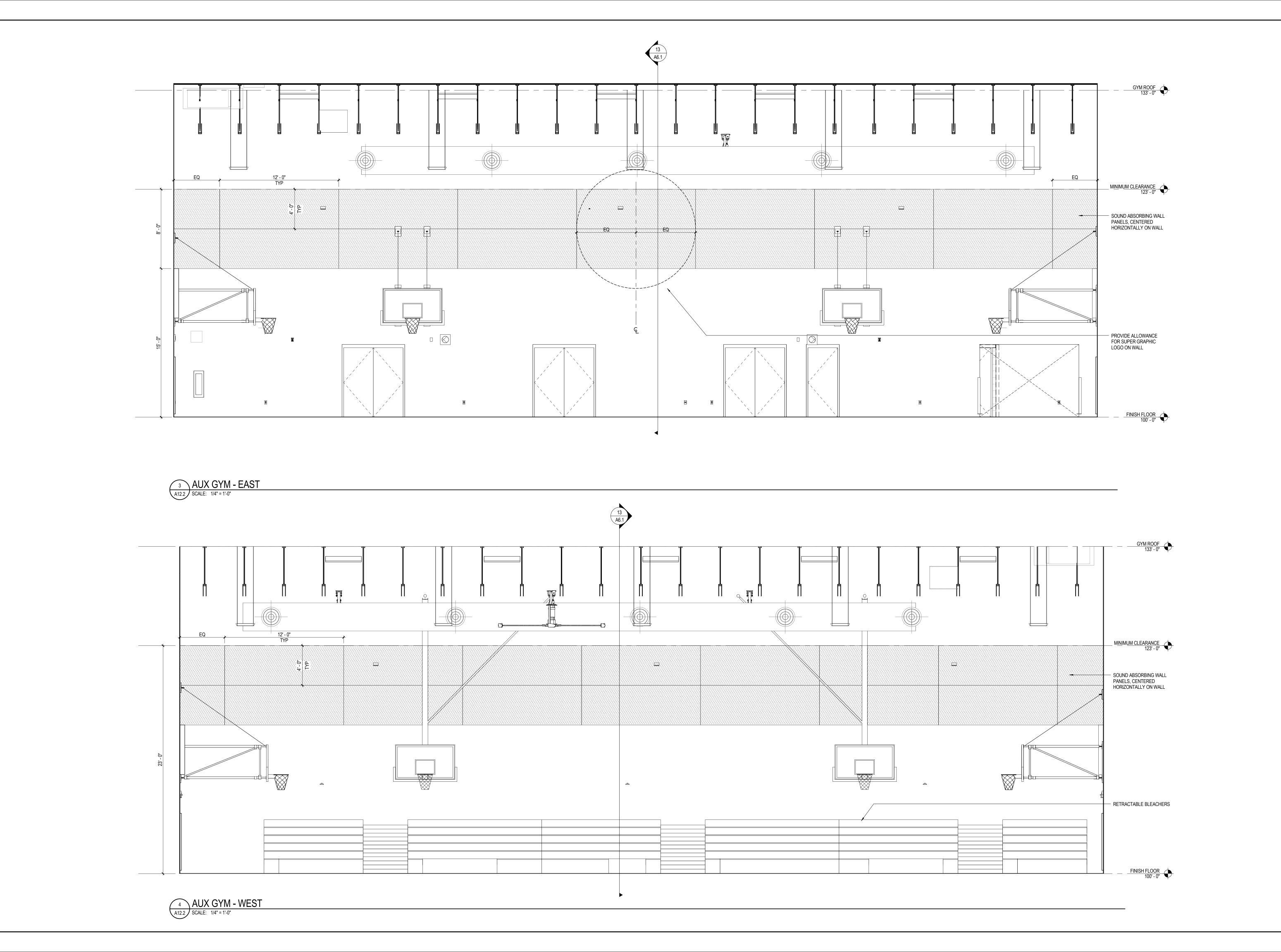
MINIMUM CLEARANCE 123' - 0"

SOUND ABSORBING WALL PANELS, CENTERED HORIZONTALLY ON WALL

- SCOREBOARD

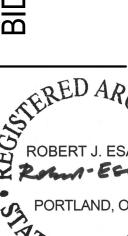
- ATHLETIC WALL PADS

EXIT



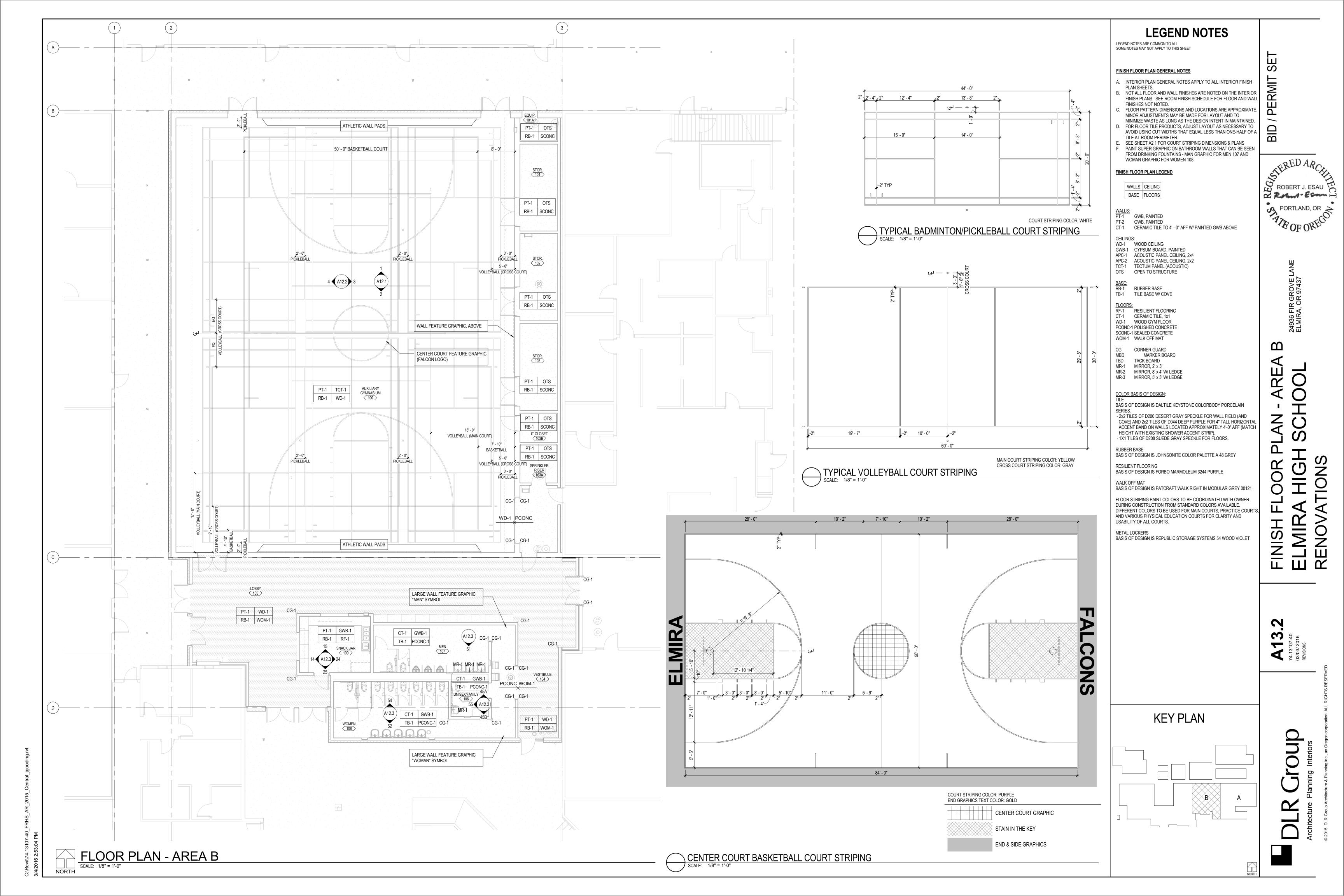
ELMIRA HIG RENOVATIONS





OOR

FINISH I ELMIR RENOV



PORTLAND, OR OF OF OFFICE OF OREGO

LEGEND NOTES

LEGEND NOTES ARE COMMON TO ALL SOME NOTES MAY NOT APPLY TO THIS SHEET

- **FINISH FLOOR PLAN GENERAL NOTES** A. INTERIOR PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH
- PLAN SHEETS. B. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ROOM FINISH SCHEDULE FOR FLOOR AND WALL FINISHES NOT NOTED. C. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE.
- MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IN MAINTAINED. D. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THAN ONE-HALF OF A TILE AT ROOM PERIMETER. E. SEE SHEET A2.1 FOR COURT STRIPING DIMENSIONS & PLANS
- F. PAINT SUPER GRAPHIC ON BATHROOM WALLS THAT CAN BE SEEN FROM DRINKING FOUNTAINS - MAN GRAPHIC FOR MEN 107 AND WOMAN GRAPHIC FOR WOMEN 108

FINISH FLOOR PLAN LEGEND

WALLS CEILING BASE FLOORS

WALLS: PT-1 GWB, PAINTED

PT-2 GWB, PAINTED CT-1 CERAMIC TILE TO 4' - 0" AFF W/ PAINTED GWB ABOVE

CEILINGS: WD-1 WOOD CEILING GWB-1 GYPSUM BOARD, PAINTED APC-1 ACOUSTIC PANEL CEILING, 2x4 APC-2 ACOUSTIC PANEL CEILING, 2x2 TCT-1 TECTUM PANEL (ACOUSTIC)

BASE: RB-1 RUBBER BASE TB-1 TILE BASE W/ COVE FLOORS: RF-1 RESILIENT FLOORING

OTS OPEN TO STRUCTURE

CT-1 CERAMIC TILE, 1x1 WD-1 WOOD GYM FLOOR PCONC-1 POLISHED CONCRETE SCONC-1 SEALED CONCRETE WOM-1 WALK OFF MAT CG CORNER GUARD

MARKER BOARD TBD TACK BOARD MR-1 MIRROR, 2' x 3' MR-2 MIRROR, 8' x 4' W/ LEDGE MR-3 MIRROR, 5' x 3' W/ LEDGE

COLOR BASIS OF DESIGN:

BASIS OF DESIGN IS DALTILE KEYSTONE COLORBODY PORCELAIN

- 2x2 TILES OF D200 DESERT GRAY SPECKLE FOR WALL FIELD (AND COVE) AND 2x2 TILES OF D044 DEEP PURPLE FOR 4" TALL HORIZONTAL ACCENT BAND ON WALLS LOCATED APPROXIMATELY 4'-0" AFF (MATCH HEIGHT WITH EXISTING SHOWER ACCENT STRIP). - 1X1 TILES OF D208 SUEDE GRAY SPECKLE FOR FLOORS.

RUBBER BASE BASIS OF DESIGN IS JOHNSONITE COLOR PALETTE A 48 GREY

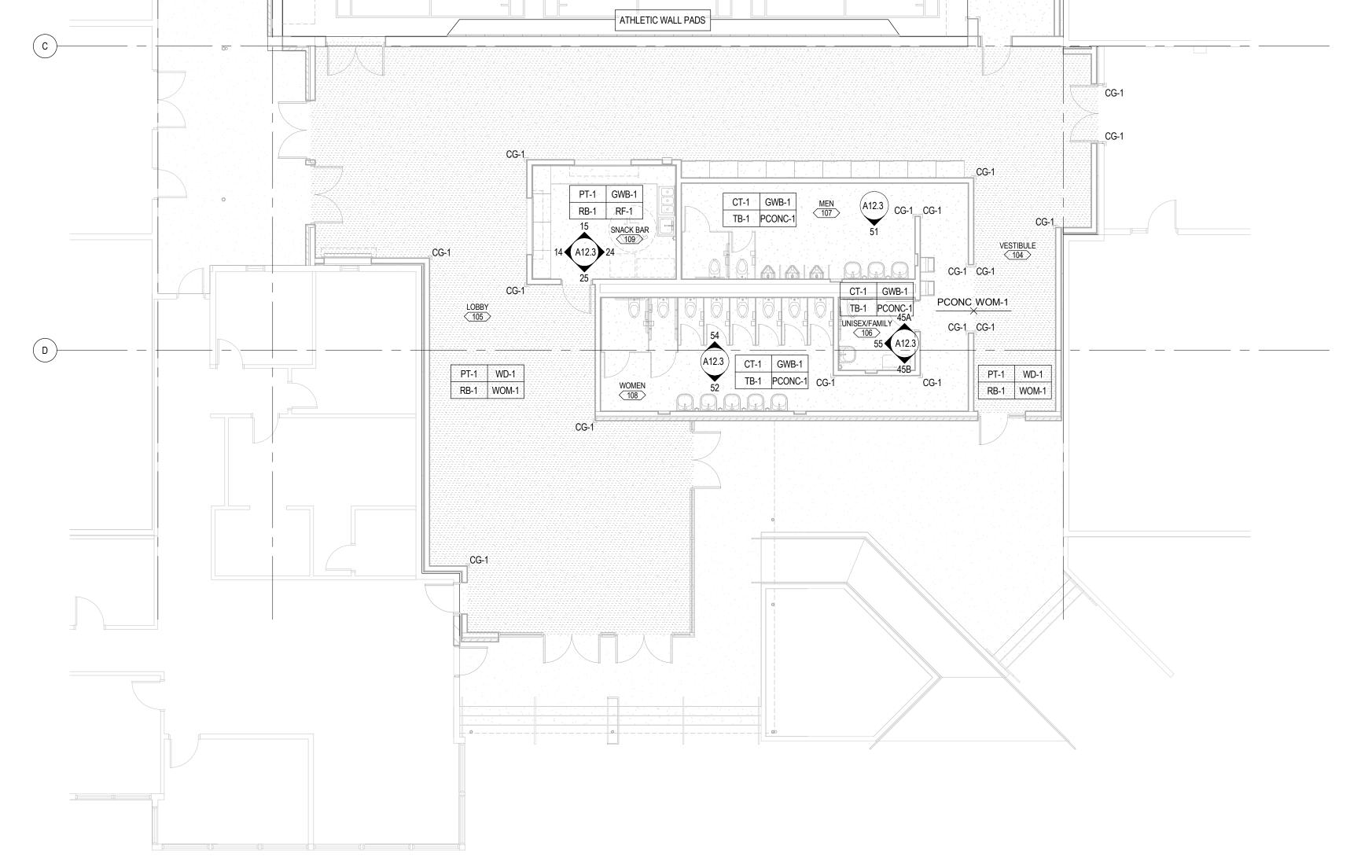
RESILIENT FLOORING BASIS OF DESIGN IS FORBO MARMOLEUM 3244 PURPLE

WALK OFF MAT BASIS OF DESIGN IS PATCRAFT WALK RIGHT IN MODULAR GREY 00121

FLOOR STRIPING PAINT COLORS TO BE COORDINATED WITH OWNER DURING CONSTRUCTION FROM STANDARD COLORS AVAILABLE.
DIFFERENT COLORS TO BE USED FOR MAIN COURTS, PRACTICE COURTS AND VARIOUS PHYSICAL EDUCATION COURTS FOR CLARITY AND USABILITY OF ALL COURTS.

METAL LOCKERS
BASIS OF DESIGN IS REPUBLIC STORAGE SYSTEMS 54 WOOD VIOLET

KEY PLAN





FINISH FLOOR PLAN - AREA B - ALTERNATE #1

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

LIST OF ABBREVIATIONS

A.B.	ANCHOR BOLT	LVF	LOW VELOCITY FASTENER
ACI	AMERICAN CONCRETE INSTITUTE	MAX.	MAXIMUM
ADD'L.	ADDITIONAL	MBMA	METAL BUILDING MANUFACTURERS ASSOCIATION
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	MECH.	MECHANICAL
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION INCORPORATED	MFR.	MANUFACTURER
ALT.	ALTERNATE	MIN.	MINIMUM
ALUM.	ALUMINUM	MISC.	MISCELLANEOUS
ARCH.	ARCHITECT	MPH	MILES PER HOUR
ASCE	AMERICAN SOCIETY OF CIVIL	MT	MAGNETIC PARTICLE TESTING
	ENGINEERS	(N)	NEW
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N.I.C.	NOT IN CONTRACT
AWS	AMERICAN WELDING SOCIETY	NOM.	NOMINAL
BLDG.	BUILDING	NO. N.T.S.	NUMBER NOT TO SCALE
ВОТ.	BOTTOM	0.C.	ON CENTER
BRBF	BUCKLING RESTRAINED BRACED FRAME	O.D.	OUTSIDE DIAMETER
C.G.	CENTER OF GRAVITY	OPP.	OPPOSITE
C.I.P.	CAST IN PLACE	OWJ	OPEN WEB JOIST
C.J.	CONTROL JOINT	PAF	POWDER ACTUATED FASTENER
C.J.P.	COMPLETE JOINT PENETRATION	PART.	PARTITION
CL	CENTERLINE	P/C	PRECAST
CLR.	CLEAR	PCF	POUNDS PER CUBIC FOOT
CMU	CONCRETE MASONRY UNIT	PERIM.	PERIMETER
COL.	COLUMN	PL	PLATE
CONC.	CONCRETE	PP	PARTIAL PENETRATION
CONN.	CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONST.	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CONT.	CONTINUOUS	P/T	POST-TENSIONED
db	BAR DIAMETER	P.T.	PRESSURE TREATED
DBA DET.	DEFORMED BAR ANCHOR DETAIL	PVC R, RAD.	POLYVINYL CHLORIDE RADIUS
DIA., Ø	DIAMETER	RCSC	RESEARCH COUNCIL ON
DIAG.	DIAGONAL	11000	STRUCTURAL CONNECTIONS
		REF.	REFERENCE
D.L.	DEAD LOAD		
D.L. DWG.	DEAD LOAD DRAWING	RET.	RETURN
		REINF.	REINFORCING
DWG.	DRAWING	REINF. REQ'D.	REINFORCING REQUIRED
DWG. ELEC.	DRAWING ELECTRICAL	REINF. REQ'D. REQ'MTS.	REINFORCING REQUIRED REQUIREMENTS
DWG. ELEC. EL.	DRAWING ELECTRICAL ELEVATION EQUAL	REINF. REQ'D. REQ'MTS. SCHED.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE
DWG. ELEC. EL. EQ.	DRAWING ELECTRICAL ELEVATION EQUAL	REINF. REQ'D. REQ'MTS. SCHED. S.C.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL
DWG. ELEC. EL. EQ. EXIST., (E)	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR
DWG. ELEC. EL. EQ. EXIST., (E) EXP.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION	REINF. REQ'D. REQ'MTS. SCHED. S.C.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FT.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FT. FTG. GA.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FT. FTG. GA. GALV.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FT. FTG. GA.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FT. GA. GALV. GL HORIZ. HSS IBC ICBO	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K KSF KSI	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. w/	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K KSF KSI LB.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUND	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. w/	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD WITH WIDE FLANGE
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K KSF KSI LB. L.L.	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUND LIVE LOAD	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. w/ WF w/o	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD WITH WIDE FLANGE WITHOUT
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K KSF KSI LB. L.L. LLH	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL BUILDING CODE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUND LIVE LOAD LONG LEG HORIZONTAL	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. w/ WF w/o W.P.	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD WITH WIDE FLANGE WITHOUT WORK POINT
DWG. ELEC. EL. EQ. EXIST., (E) EXP. EXT. FDN. FIN. FIR. FTG. GA. GALV. GL HORIZ. HSS IBC ICBO I.D. IN. INT. K KSF KSI LB. L.L. LLH LLV	DRAWING ELECTRICAL ELEVATION EQUAL EXISTING EXPANSION EXTERIOR FOUNDATION FINISH FLOOR FOOT FOOTING GAUGE GALVANIZED GLULAM HORIZONTAL HOLLOW STRUCTURAL STEEL INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS INSIDE DIAMETER INCH INTERIOR KIPS KIPS PER SQUARE FOOT KIPS PER SQUARE INCH POUND LIVE LOAD LONG LEG HORIZONTAL LONG LEG HORIZONTAL	REINF. REQ'D. REQ'MTS. SCHED. S.C. SIM. SLRS S.O.G. SPEC. SQ. SS SSMA STD. STRUCT. SYM. THRU T & G TRANS. TJ TS TYP. U.N.O. U.T. VERT. V.I.F. w/ WF w/o	REINFORCING REQUIRED REQUIREMENTS SCHEDULE SLIP CRITICAL SIMILAR SEISMIC LOAD RESISTING SYSTEM SLAB ON GRADE SPECIFICATION SQUARE STAINLESS STEEL STEEL STUD MANUFACTURERS ASSOCIATION STANDARD STRUCTURAL SYMMETRICAL THROUGH TONGUE AND GROOVE TRANSVERSE TRUSS JOIST LIGHT GAUGE TUBE STEEL TYPICAL UNLESS NOTED OTHERWISE ULTRASONIC TESTING VERTICAL VERIFY IN FIELD WITH WIDE FLANGE WITHOUT

WELDED WIRE FABRIC

STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK.

THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

CODE REQUIREMENTS:

CONFORM TO THE 2014 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2012 INTERNATIONAL BUILDING CODE (IBC).

TEMPORARY CONDITIONS:

THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES.

CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

EXISTING CONDITIONS:

ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY SIGNIFICANT DISCREPANCIES FROM CONDITIONS SHOWN ON THE DRAWINGS.

ASSUMED FUTURE CONSTRUCTION:

VERTICAL: NONE HORIZONTAL: NONE

DESIGN CRITERIA

DESIGN WAS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC. IN ADDITION TO THE DEAD LOADS, THE FOLLOWING LOADS AND ALLOWABLES WERE USED FOR DESIGN, WITH LIVE LOADS (L.L.) REDUCED

	DESIGN CRITERIA					
	GRAVITY SYSTEM CRITERIA					
ROOF LIVE	20 PSF L.L. (ALSO SEE SNO	,				
FLOOR LIVE LOADS:	UNIFORM LOAD	CONCENTRATED LOAD				
CORRIDORS AND STAIRS	100 PSF L.L.	2,000 LBS. (300 LBS. @ STAIRS)				
GYMNASIUM	100 PSF L.L.	2,000 LBS.				
CHANGING ROOMS, RESTROOMS	100 PSF L.L.	2,000 LBS.				
LOBBIES	100 PSF L.L.	2,000 LBS.				
NOTES:	1. LIVE LOADS REDUCED PER OSSC.					
	2. MEMBER DESIGNED FOR MORE CRI CONCENTRATED LOAD.	TICAL OF UNIFORM OR				
	SNOW CRITERIA					
DESIGN ROOF SNOW LOAD	27 PSF = 22 PSF + 5PSF RA	IN ON SNOW SURCHARGE				
SNOW DRIFT	PER OSSC AS SH					
GROUND SNOW LOAD	ŭ .	7 SNOW LOAD ANALYSIS FOR OREGON				
FLAT ROOF SNOW LOAD	Pf = 1	5 PSF				
SNOW EXPOSURE FACTOR	Ce =					
SNOW LOAD IMPORTANCE FACTOR	ls =					
THERMAL FACTOR	Ct =	1.0				
	GEOTECHNICAL CRITERIA					
DESIGN BASED ON REPORT BY:	K & A ENGINEERING INC.	DATED AUGUST 28, 2007				
ALLOWABLE SOIL PRESSURE:	ALLOWABLE SOIL PRESSURE: 2,000 PSF					
SHORT TERM LOADING	2,666	PSF				
	WIND CRITERIA					
RISK CATEGORY	I	I				
MAIN WIND FORCE RESISTING SYSTEM	Vult = 130 MPH ULTIMATE DESIGN	I WIND SPEED (3-SECOND GUST)				
COMPONENTS AND CLADDINGS	Vult = 130 MPH ULTIMATE DESIGN	I WIND SPEED (3-SECOND GUST)				
EXPOSURE CATEGORY	E	3				
GUST/INTERNAL PRESSURE	GCpi =	+/- 0.18				
	SEISMIC CRITERIA					
RISK CATEGORY	li li	Ι				
SEISMIC DESIGN CATEGORY						
SITE CLASS		D				
IMPORTANCE FACTOR	IE =					
MCE SPECTRAL ACCELERATION	Ss = 0.922	S1 = 0.477				
SITE COEFFICIENT	Fa = 1.131	Fv = 1.522				
DESIGN SPECTRAL ACCELERATION	SDS = 0.696	SD1 = 0.484				
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE					
	X DIRECTION (E / W)	Y DIRECTION (N / S)				
SEISMIC FORCE RESISTING SYSTEM (SFRS)	WOOD BEARING WALL SHEATHED w/ WOOD STRUCTURAL PANELS	WOOD BEARING WALL SHEATHED w/ WOOD STRUCTURAL PANELS				
RESPONSE MODIFICATION FACTOR	R = 6.5	R = 6.5				
SEISMIC RESPONSE COEFFICIENT	Cs = 0.13	Cs = 0.13				
DESIGN BASE SHEAR	56 KIPS	56 KIPS				
REDUNDANCY FACTOR	rho = 1.0	rho = 1.0				

SEISMIC LOAD RESISTING SYSTEM:

THE SEISMIC FORCE RESISTING SYSTEM (SFRS) FOR THE COMPLETED STRUCTURE IS AS FOLLOWS:

NEW GYMNASIUM AND RESTROOMS: TIMBER SHEATHED WOOD SHEAR WALLS TRANSFER LATERAL LOADS FROM ROOF DIAPHRAGMS TO CONTINUOUS STRIP FOOTINGS.

REFER TO THE GENERAL STRUCTURAL NOTES AND PROJECT SPECIFICATIONS FOR DETAILING, INSTALLATION, TESTING AND INSPECTION REQUIREMENTS FOR MEMBERS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS).

DESIGN AND DETAILING WAS BASED ON CRITERIA FOR SEISMIC DESIGN CATEGORY D.

GENERAL STRUCTURAL NOTES

STRUCTURAL OBSERVATION:

THE STRUCTURAL ENGINEER OF RECORD (SER) WILL PERFORM STRUCTURAL OBSERVATION BASED ON THE REQUIREMENTS OF THE OSSC AT THE STAGES OF CONSTRUCTION LISTED BELOW. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SER TO PERFORM THESE OBSERVATIONS.

STRUCTURAL OBSERVATIONS						
ITEM	OBSERV	ED BY (2)	COMMENTS			
IIEW	AOR	SER	COIVIIVIEN 15			
PRIOR TO FIRST CONCRETE POUR		Χ	REF. NOTES 1,3,4,5			
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES		Х	REF. NOTES 1,3,4			

FOOTNOTES:

- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE SER IN ADVANCE.
- 2. SER STRUCTURAL ENGINEER OF RECORD. AOR - ARCHITECT OF RECORD.
- A FIELD REPORT WILL BE SUBMITTED TO THE BUILDING DEPARTMENT FOLLOWING EACH SITE VISIT.
- STRUCTURAL OBSERVATION IS FOR THE GENERAL CONFORMANCE OF THE STRUCTURAL DRAWING, SPECIAL INSPECTION IS STILL REQUIRED.
- 5. AFTER REINFORCING STEEL HAS BEEN INSTALLED.

SPECIAL INSPECTION AND TESTING:

SPECIAL INSPECTION WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC AS SUMMARIZED IN THE SPECIAL INSPECTION AND TESTING PROGRAM ON SHEET S00X. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL ITEMS, INCLUDING THE FOLLOWING:

	SUBMITTALS		
ITEM	SUBMITTAL (1,4)	DEFERRED SUBMITTAL (2,4)	COMMENTS
CONCRETE MIX DESIGNS	Х		
CONCRETE REINFORCEMENT	Х		
CONCRETE ANCHORAGES	Х		
EMBEDDED STEEL ITEMS	Х		
STRUCTURAL STEEL	X		
STEEL WELDING PROCEDURES	X		
GLUE-LAMINATED MEMBERS	X		
ENGINEERED WOOD I-JOISTS	^	X	
ENGINEERED WOOD OPEN-WEB JOISTS		X	
GLAZING SYSTEMS		X	
SKYLIGHTS		X	
MEP EQUIPMENT ANCHORAGE AND BRACING		Х	REF. NOTES

FOOTNOTES:

- 1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF STRUCTURAL ITEMS. IF THE SHOP DRAWINGS DIFFER FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER.
- 2. DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE. CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE OSSC AND AS NOTED UNDER "DESIGN CRITERIA".
- 3. THE CONTRACTOR SHALL COORDINATE SEISMIC RESTRAINTS OF MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT, MACHINERY, AND ASSOCIATED PIPING WITH THE STRUCTURE. CONNECTIONS TO STRUCTURE SHALL CONFORM TO ASCE 7-10 CHAPTER 13, BE DESIGNED BY AN ENGINEER REGISTERED IN THE STATE OF OREGON, AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION.
- 4. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DIFFER FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF OREGON AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
- SLEEVES, OPENINGS, CONDUIT, AND OTHER EMBEDDED ITEMS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER BEFORE PLACING CONCRETE. CONDUITS EMBEDDED IN SLABS SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE THIRD OF THE THICKNESS OF THE SLAB AND SHALL NOT BE SPACED CLOSER THAN THREE DIAMETERS ON CENTER.

WHERE NEW CONCRETE IS PLACED AGAINST EXISTING CONCRETE, THE EXISTING CONCRETE SURFACE SHALL BE CLEANED AND ROUGHENED TO A MINIMUM 1/4" AMPLITUDE PER ACI 318 SECTION 11.6.9. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CONCRETE EDGES, UNLESS NOTED OTHERWISE.

VERIFY ALL BLOCK OUTS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING REQUIREMENTS.

REINFORCING STEEL: ALL LONGITUDINAL FLEXURAL REINFORCEMENT IN ABOVE GROUND LEVEL BEAMS, COLUMNS AND SHEAR WALLS SHALL BE ASTM A706, GRADE 60. ALL OTHER DEFORMED BAR REINFORCEMENT MAY BE ASTM A615 GRADE 60 OR ASTM A706 GRADE 60. ASTM A615 REINFORCEMENT MAY BE SUBSITUTED FOR ASTM A706 REINFORCEMENT PROVIDED THAT THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED 78,000 PSI AND THE RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH IS NOT LESS THAN 1.25. MILL TESTS CERTIFICATIONS FOR SUBSTITUTED BARS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR AND EOR PRIOR TO PLACEMENT.

SMOOTH WELDED WIRE FABRIC (WWF) SHALL BE ASTM A1064, UNLESS NOTED OTHERWISE. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706. WELDING SHALL COMPLY WITH AWS D1.4. COLUMN SPIRALS SHALL BE PLAIN OR DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60. REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE.

BARS IN BEAMS AND SLABS SHALL BE SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL OR PLASTIC CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STANDARD PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315. SHOP DRAWINGS SHALL INCLUDE ELEVATIONS OF ALL BEAMS, WALLS AND COLUMNS SHOWING BAR LOCATIONS. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULES, EXCEPT AS NOTED ON DRAWINGS. USE LAP LENGTH FOR SMALLER BAR WHEN SPLICING DIFFERENT BAR SIZES. BARS SPLICED WITH NONCONTACT LAPS SHALL BE SPACED NO FARTHER THAN 1/5TH THE LAP LENGTH OR 6 INCHES. MECHANICAL SPLICES NOTED ON THE PLANS SHALL BE DAYTON SUPERIOR BAR-LOCK (ICC ESR-2495) OR TAPERLOCK COUPLERS (IAPMO ES-0319) OR APPROVED WITH A CURRENT EVALUATION APPROVAL REPORT.

	TYP. WALL AND SLAB LAP SPLICE LENGTH SCHEDULE (IN.)						
	WALL VERTICAL AND SLA	B BOTTOM BARS (NOTE 7)	WALL HORIZONTAL AND SLAB TOP BARS (NOTE 7)				
BAR SIZE	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 3,000 PSI	f'c = 4,000 PSI			
#3	14	12	18	16			
#4	22	20	28	26			
#5	32	28	42	36			
#6	44	38	58	50			
#7	70	62	92	78			

	TYP. FOUNDA	TION AND MAT LAP S	PLICE LENGTH SCHE	DULE (IN.)	
DAD	ВОТТОМ ВА	RS (NOTE 7)	TOP BARS (NOTE 7)		
BAR SIZE	f'c = 3,000 PSI	f'c = 4,000 PSI	f'c = 3,000 PSI	f'c = 4,000 PSI	
#3	14	12	18	16	
#4	18	16	24	20	
#5	22	20	30	26	
#6	28	24	36	32	
#7	44	40	58	50	

- TABLE NOTES:
 MINIMUM LAP SPLICES NOTED ARE FOR NON-LATERAL LOAD RESISTING ELEMENTS. FOR REBAR LAPS SPLICES AT
- LATERAL LOAD RESISTING ELEMENTS BEFFRENCE PLANS AND ELEVATIONS.
- MINIMUM CLEAR COVER AND BAR SPACING of 4db TO BE PROVIDED. 4. NORMAL WEIGHT CONCRETE, FOR LIGHT-WEIGHT CONCRETE MULTIPLY TABLE VALUES BY 1.3.
- 5. UNCOATED BARS, FOR EPOXY-COATED BARS MULTIPLY TABLE VALUES BY 1.5.
- 6. COMBINATIONS OF EFFECTS DUE TO CONCRETE STRENGTH, CONCRETE WEIGHT, AND EPOXY COATING ARE
- 7. SLAB, FOUNDATION AND MAT TOP BARS ARE BARS CAST ABOVE MORE THAN 12" OF FRESH CONCRETE. ALL OTHER SLAB BARS MAY BE CONSIDERED BOTTOM BARS.

REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

1		
	REINFORCING STEE	L CONCRETE COVER
	USE	CLEAR COVER
	WALLS: INTERIOR FACES	3/4"
	WALLS: EXPOSED TO EARTH OR WEATHER	1-1/2" (#5 AND SMALLER)
	WALLS. EXPOSED TO EARTH OR WEATHER	2" (#6 AND LARGER)
	CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"

CONCRETE REINFORCING DETAILS:

CONTINUE HORIZONTAL WALL BARS THROUGH PILASTERS, COLUMNS AND INTERSECTING WALLS. AT SLAB AND WALL OPENINGS PROVIDE A MINIMUM OF TWO #5 BARS OVER, UNDER AND AT THE SIDES OF THE OPENINGS. EXTEND THESE BARS LAP DISTANCE OR A MINIMUM OF 2'-0" PAST THE OPENING. PROVIDE ONE #5 FOR SINGLE-LAYER REINFORCING AND TWO #5 FOR DOUBLE-LAYER REINFORCING, 4'-0" LONG, DIAGONALLY AT EACH CORNER OF ALL OPENINGS. REFER TO TYPICAL DETAILS FOR DISPOSITION OF CORNER BARS AND BARS IN SMALL WALL SECTIONS. SLAB BARS SHALL BE HOOKED INTO WALLS, OR HOOKED DOWELS SHALL BE PROVIDED TO MATCH SLAB REINFORCING. PROVIDE TWO #4, 4'-0" LONG DIAGONALLY AT EACH RE-ENTRANT CORNER IN SLABS. PROVIDE HOOKED DOWELS FROM FOOTINGS TO MATCH VERTICAL WALL REINFORCING, UNLESS NOTED OTHERWISE.

CONCRETE ACCESSORIES:

HEADED SHEAR STUDS SHALL BE NELSON HEADED ANCHORS WITH FLUXED ENDS (ICC ESR-2856) OR APPROVED. DEFORMED BAR ANCHORS (D.B.A.) SHALL BE NELSON, TYPE D2L (ICC ESR-2907), OR APPROVED. STUDS AND D.B.A. SHALL BE AUTOMATICALLY END-WELDED WITH THE MANUFACTURER'S STANDARD EQUIPMENT IN ACCORDANCE WITH THEIR RECOMMENDATIONS.

POST-INSTALLED ANCHORS SHALL BE OF THE TYPE AND PRODUCT SPECIFIED ON THE DRAWINGS OR AS FOLLOWS:

	POST INSTALLED CONCRETE ANCHORS
TYPE	APPROVED ANCHORS
EXPANSION	HILTI KWIK BOLT TZ (ICC ESR-1917)
CONCRETE SCREW	HILTI KWIK HUS-EZ (ICC ESR-3027)
EPOXY ADHESIVE	HILTI HIT-HY200 (ICC ESR-3187)

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS. EMBEDMENTS SPECIFIED ON DRAWINGS ARE "EFFECTIVE" EMBEDMENTS. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS.

REQUESTS FOR ANCHOR SUBSTITUTIONS SHALL BE SUBMITTED TO THE EOR IN WRITING ALONG WITH EVIDENCE OF EQUAL OR GREATER CAPACITY TO THE SPECIFIED CONNECTION. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.

INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED SHALL BE PERFORMED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER AS CERTIFIED THROUGH ACI/CRSI AND IN ACCORDANCE WITH ACI 318-11 SECTION D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE EOR PRIOR TO INSTALLATION.

ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL. PERMANENTLY EXPOSED EMBEDDED PLATES AND ANGLES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, UNLESS NOTED OTHERWISE.

NO LOADS OR WELDS SHALL BE PLACED ON EMBEDDED PLATES OR ANGLES FOR A MINIMUM OF 7 DAYS AFTER CASTING. IN ACCORDANCE WITH ACI 318-11 SECTION D.2.2 ADHESIVE ANCHORS SHALL NOT BE INSTALLED FOR A MINIMUM OF 21 DAYS AFTER CASTING.

GENERAL STRUCTURAL NOTES

EPOXY REPAIR ADHESIVE:

EPOXY REPAIR ADHESIVE SHALL CONFORM TO ASTM C881 AND SHALL BE A TWO-COMPONENT, LIQUID EPOXY WITH NON-SAG CONSISTENCY AND A LONG POT LIFE. THE EPOXY ADHESIVE SHALL BE SUITABLE FOR USE ON DRY OR DAMP SURFACES. MINIMUM SLANT SHEAR STRENGTH SHALL BE 5.000 PSI. AND MINIMUM TENSILE STRENGTH SHALL BE 4,000 PSI. HOLE SIZES AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE APPROVED EVALUATION REPORT REQUIREMENTS. DO NOT CUT REINFORCING IN NEW OR EXISTING CONCRETE DURING INSTALLATION.

MASONRY ACCESSORIES:

ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. REINFORCING IN NEW OR EXISTING MASONRY SHALL NOT BE CUT DURING INSTALLATION. ALL ANCHORS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.

MASONRY ANCHORS						
ANCHORS	TYPE	ALTERNATE				
EXPANSION	HILTI KWIK BOLT 3 (ICC ESR-1385)	SIMPSON WEDGE-ALL (ICC ESR-1396)				
SCREW	HILTI HUS-EZ (ICC ESR-3056)	SIMPSON TITEN HD (ICC ESR-1056)				
ADHESIVE	HILTI HIT HY-70 (ICC ESR-2682)	SIMPSON SET (ICC ESR-1772)				

NOTE:

MINIMUM GROUT COVER BETWEEN REINFORCEMENT AND INSIDE FACE OF CELL SHALL BE 1/4" FOR FINE GROUT AND 1/2" FOR COURSE GROUT.

SAWN LUMBER SHALL CONFORM TO THE REQUIREMENTS AS INDICATED IN THE CURRENTLY ACCEPTED NATIONAL DESIGN SPECIFICATION (NDS) DESIGN VALUES FOR WOOD CONSTRUCTIONAND CONFORMING TO THE WEST COAST LUMBER INSPECTION BUREAU OR WESTERN WOOD PRODUCTS ASSOCIATION GRADING RULES. LUMBER SHALL BE THE SPECIES, GRADE, AND MOISTURE CONTENT NOTED BELOW:

	SAWN LUMBER	
USE	SPECIES AND GRADE	MOISTURE CONTENT
LUMBER 2" TO 4" THICK x 5" OR WIDER (JOISTS/RAFTERS)	DOUGLAS FIR-LARCH NO. 2 & BTR	S-DRY
LUMBER 2" TO 3" THICK x 4" TO 6" WIDE (STUDS)	DOUGLAS FIR-LARCH STUD	S-DRY
LUMBER 5x5 AND GREATER (BEAMS)	DOUGLAS FIR-LARCH NO. 1	S-DRY
LUMBER 5x5 AND GREATER (POSTS)	DOUGLAS FIR-LARCH NO. 1	S-DRY

ALL LUMBER IN CONTACT WITH CONCRETE OR CMU SHALL BE PRESSURE TREATED, UNLESS AN APPROVED MOISTURE BARRIER IS PROVIDED.

FRAMING ACCESSORIES SHALL BE MANUFACTURED BY SIMPSON STRONG TIE (OR APPROVED EQUAL) AND OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. ALL NAIL HOLES SHALL BE FILLED WITH STRUCTURAL FASTENERS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND FASTENERS SHALL BE INSTALLED FOLLOWING ALL MANUFACTURERS REQUIREMENTS. IF A SUBSTITUTION IS MADE, A DOCUMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL OUTLINING THE FRAMING ACCESSORIES BEING REPLACED AND THE SUBSTITUTED FRAMING ACCESSORIES. ALLOWABLE LOADS FOR THE SIMPSON ACCESSORIES SHALL BE TABULATED ALONG WITH ALLOWABLE LOADS FOR THE SUBSTITUTED ACCESSORIES, WHICH CLEARLY INDICATE THE SUBSTITUTED ACCESSORIES HAVING AN EQUAL OR GREATER CAPACITY.

ALL FRAMING NAILS SHALL BE OF THE SIZE AND QUANTITY INDICATED ON THE DRAWINGS AND CONFORM TO ASTM F 1667, "STANDARD SPECIFICATION OF DRIVEN FASTENERS: NAILS, SPIKES, AND STAPLES AND ICC-ES REPORT ESR-1539 "POWER-DRIVEN STAPLES AND NAILS". NAILS SHALL BE IDENTIFIED BY LABELS (ATTACHED TO THEIR CONTAINERS) THAT SHOW THE MANUFACTURER'S NAME AND ICC-ES REPORT NUMBER, NAIL SHANK DIAMETER, AND LENGTH AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FRAMING. NAILING NOT SHOWN SHALL BE AS INDICATED ON OSSC TABLE 2304.9.1 OR ESR-1539. THE FOLLOWING NAIL SIZES SHALL BE USED WITH THE NAIL LENGTH DETERMINED BY MINIMUM PENETRATION INTO FRAMING MEMBER:

FRAMING NAILS						
NAIL TYPE	SHANK DIAMETER (IN.)	MINIMUM PENETRATION INTO FRAMING MEMBER (IN.)				
6d	0.113	1.125				
8d	0.131	1.375				
10d	0.148	1.5				
12d	0.148	1.5				
16d	0.162	1.625				

BOLTS AND LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1. ALL BOLTS AND LAG SCREWS SHALL BE INSTALLED WITH STANDARD CUT WASHERS.

CUTTING AND NOTCHING OF JOISTS AND STUDS SHALL CONFORM TO THE TYPICAL WOOD DETAILS PROVIDED OR OSSC SECTIONS 2308.4.2.4, 2308.5.9 AND 2308.7.4 WHERE NO DETAILS ARE SPECIFIED.

SALVAGED LUMBER IS ACCEPTABLE PROVIDED IT IS GRADED BY AN APPROVED GRADING AGENCY PRIOR TO USE AND MEETS A MINIMUM ALLOWABLE BENDING STRESS (Fb) OF **1,000 PSI**. CONTRACTOR TO SUBMIT A GRADING REPORT ON EACH MEMBER TO THE ARCHITECT PRIOR TO INSTALLATION.

WOOD STRUCTURAL PANELS:

THE TERM "WOOD STRUCTURAL PANEL" REFERS TO A WOOD-BASED PANEL PRODUCT BONDED WITH A WATERPROOF ADHESIVE. INCLUDED UNDER THIS DESIGNATION ARE BOTH PLYWOOD AND ORIENTED STRAND BOARD (OSB). WOOD STRUCTURAL PANELS SHALL CONFORM TO U.S. DEPARTMENT OF COMMERCE VOLUNTARY PRODUCT STANDARDS PS1 OR PS2 FOR WOOD-BASED STRUCTURAL USE PANELS, OR APA PERFORMANCE STANDARD PRP-108 (ICC-ES ESR-2586). PANELS SHALL BE APA RATED SHEATHING OR APA RATED STURD-I-FLOOR, EXTERIOR OR EXPOSURE 1, OF THE THICKNESS AND SPAN RATING SHOWN ON THE DRAWINGS. PANELS SHALL BE STAMPED WITH THE APA TRADEMARK.

WOOD STRUCTURAL PANEL INSTALLATION SHALL BE IN CONFORMANCE WITH APA RECOMMENDATIONS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES, UNLESS OTHERWISE RECOMMENDED BY THE PANEL MANUFACTURER.

ALL ROOF SHEATHING AND FLOOR SHEATHING SHALL BE INSTALLED WITH FACE GRAIN OR STRENGTH AXIS PERPENDICULAR TO SUPPORTS, EXCEPT AS INDICATED ON THE DRAWINGS. ROOF SHEATHING SHALL EITHER BE BLOCKED, TONGUE-AND-GROOVE, OR HAVE EDGES SUPPORTED BY PLYCLIPS. WHERE BLOCKING IS SPECIFICALLY INDICATED ON THE DRAWINGS, T&G EDGES OR PLYCLIPS MAY NOT BE SUBSTITUTED. SHEATHING SHALL BE UNBLOCKED, EXCEPT AS INDICATED ON DRAWINGS. FLOOR SHEATHING SHALL BE FIELD GLUED TO THE FRAMING USING ADHESIVES MEETING APA SPECIFICATION AFG-01 OR ASTM D3498. TONGUE AND GROOVE PANELS SHALL ALSO BE GLUED AT THE T&G JOINT.

SHEAR WALL SHEATHING SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY AND BE BLOCKED WITH 2x FRAMING AT ALL PANEL EDGES. NAILING NOT SHOWN SHALL BE AS INDICATED ON OSSC TABLE 2304.9.1.

WOOD STRUCTURAL PANEL SHEAR WALLS:

SHEAR WALL WOOD STRUCTURAL PANELS SHALL BE PLYWOOD OR OSB PANELS CONFORMING TO THE REQUIREMENTS FOR ITS TYPE SPECIFIED IN U.S. DOC PS1 OR PS2. SHEATHING SHALL BE APPLIED EITHER HORIZONTALLY OR VERTICALLY. SHEET SIZES SHALL BE 4x8 UNLESS AT BOUNDARIES OR FRAMING CHANGES.

NAIL HEADS SHALL BE DRIVEN FLUSH WITH SHEATHING. DO NOT PENETRATE SURFACE PLY WITH NAIL HEADS. IF NAIL HEADS ARE NOT FLUSH NOTIFY E.O.R. CONTRACTOR IS RESPONSIBLE FOR ANY REPAIRS NECESSARY DUE TO OVER-PENETRATION OF NAILS.

ALL SHEAR WALL PANEL SHEATHING EDGES SHALL BE BLOCKED. EDGE NAILS SHALL BE AT LEAST 3/8" FROM EDGES AND ENDS OF PANELS. STAGGER NAILING ON EDGES.

GLUED-LAMINATED MEMBERS:

GLUED-LAMINATED (GLULAM) MEMBERS SHALL BE FABRICATED IN CONFORMANCE WITH ANSI STANDARD A190.1, AMERICAN NATIONAL STANDARD FOR STRUCTURAL GLUED LAMINATED TIMBER OR OTHER CODE- APPROVED DESIGN, MANUFACTURING AND/OR QUALITY ASSURANCE PROCEDURES. EACH MEMBER SHALL BEAR AN AITC OR APA-EWS IDENTIFICATION MARK OR BE ACCOMPANIED BY A CERTIFICATE OF CONFORMANCE. ONE COAT OF END SEALER SHALL BE APPLIED IMMEDIATELY AFTER TRIMMING IN EITHER THE SHOP OR THE FIELD.

GLULAM MEMBERS SHALL BE FRAMING (HIDDEN) OR ARCHITECTURAL (EXPOSED) APPEARANCE CLASSIFICATION AND OF THE STRENGTH INDICATED BELOW:

GLUED-LAMINATED MEMBERS					
COMBINATION SYMBOL (SPECIES)	USE	FLEXURAL STRESS, Fb (PSI)	MODULUS OF ELASTICITY (PSI)	HORIZONTAL SHEAR STRESS Fv (PSI)	
24F-V4 (DF/DF)	SIMPLE SPAN	+2,400 / -1,850	1,800,000	265	
24F-1.8E	SIMPLE SPAN	+2,400 / -1,450	1,800,000	265	

ADHESIVE SHALL BE WET-USE EXTERIOR, WATERPROOF GLUE. FIELD NOTCHING AND BORING OF GLULAM MEMBERS NOT ALLOWED UNLESS APPROVED BY SER.

GLULAM MEMBERS SHALL BE SUPPLIED TO THE PROJECT WITH BETWEEN 3,500 AND 5,000 FOOT STANDARD MILL CAMBER WITH TOLERANCES AS ALLOWED BY ANSI A190. THE DRAWINGS WILL INDICATE WHETHER OR NOT ADDITIONAL CAMBER IS REQUIRED.

ENGINEERED WOOD I-JOISTS:

DESIGN OF THE WOOD I-JOIST SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY. WOOD I-JOISTS SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS, MANUFACTURED BY TRUS-JOIST OR AN APPROVED EQUAL, CONFORMING TO APA EWS STANDARD PRI-400, "PERFORMANCE STANDARD FOR APA EWS I-JOISTS" OR A CURRENT ICC-ES REPORT. ALTERNATES WILL BE CONSIDERED, PROVIDED THE ALTERNATE IS COMPATIBLE WITH THE LOAD CAPACITY, STIFFNESS, DIMENSIONAL, DIAPHRAGM NAILING, AND FIRE RATING REQUIREMENTS OF THE PROJECT.

CONTRACTOR SHALL PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ROOF JOISTS AND BRIDGING SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

THE JOIST SUPPLIER SHALL VISIT THE JOB SITE AS REQUIRED TO VERIFY PROPER INSTALLATION OF JOISTS AND PROVIDE WRITTEN VERIFICATION TO THE ARCHITECT UPON COMPLETION.

IN ADDITION TO SELF WEIGHT, JOISTS SHALL BE DESIGNED FOR THE MINIMUM LOADS SPECIFIED BELOW AND ANY ADDITIONAL LOADS AS NOTED ON THE PLANS INCLUDING SNOW DRIFT, WIND, SEISMIC, MECHANICAL EQUIPMENT, ADDITIONAL LIVE OR DEAD LOADS.

ENGINEERED WOOD I-JOIST LOADING CRITERIA				
LOCATION	LOAD			
ROOF DEAD LOAD	20 PSF			
ROOF LIVE LOAD	20 PSF			
ROOF NET WIND UPLIFT	16 PSF			

DESIGN SHALL CONFORM TO THE FOLLOWING MINIMUM DEFLECTION CRITERIA: L/240 (ROOF DEAD LOAD PLUS LIVE

ENGINEERED WOOD OPEN-WEB TRUSSES

DESIGN OF THE ENGINEERED WOOD OPEN-WEB TRUSS SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. WOOD CHORD, OPEN STEEL WEB TRUSSES SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS AND MANUFACTURED BY REDBUILT OR AN APPROVED EQUAL. ALTERNATES WILL BE CONSIDERED PROVIDED THE ALTERNATE IS ICC APPROVED, COMPATIBLE WITH THE DIAPHRAGM NAILING, LOAD CAPACITY, STIFFNESS, DIMENSIONAL, AND FIRE RATING REQUIREMENTS OF THE PROJECT.

CONTRACTOR SHALL PROVIDE BRIDGING IN CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS. ROOF TRUSSES AND BRIDGING SHALL BE CAPABLE OF RESISTING THE WIND UPLIFT BELOW, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

THE TRUSS MANUFACTURER/SUPPLIER SHALL VISIT THE JOB SITE AS REQUIRED TO VERIFY PROPER INSTALLATION OF JOISTS AND PROVIDE WRITTEN VERIFICATION TO THE ARCHITECT UPON COMPLETION.

TRUSSES SHALL BE DESIGNED FOR THE LOADS SPECIFIED BELOW AND ANY ADDITIONAL LOADS AS NOTED ON THE PLANS INCLUDING, WIND, SEISMIC, SNOW DRIFT, MECHANICAL EQUIPMENT, ADDITIONAL LIVE OR DEAD LOADS.

ENGINEERED WOOD OPEN-WEB TRUSS LOADING CRITERIA					
LOCATION	LOAD				
ROOF DEAD LOAD	20 PSF				
ROOF LIVE LOAD	20 PSF				
ROOF NET WIND UPLIFT	16 PSF				

DESIGN SHALL CONFORM TO THE FOLLOWING MINIMUM DEFLECTION CRITERIA: L/240 (ROOF DEAD LOAD PLUS LIVE LOAD.)

STRUCTURAL COMPOSITE LUMBER:

STRUCTURAL COMPOSITE LUMBER PRODUCTS SUCH AS LAMINATED VENEER LUMBER (LVL), PARALLEL STRAND LUMBER (PSL), AND LAMINATED STRAND LUMBER (LSL) SHALL BE OF THE SIZE AND TYPE SHOWN ON THE DRAWINGS. ALL STRUCTURAL COMPOSITE LUMBER PRODUCTS NOTED HERE SHALL HAVE A CURRENT ICC-ES

MEMBERS SHALL HAVE THE FOLLOWING MINIMUM DESIGN PROPERTIES:

STRUCTURAL COMPOSITE LUMBER MINIMUM PROPERTIES					
LUMBER TYPE	FLEXURAL STRESS, Fb (PSI)	MODULUS OF ELASTICITY (PSI			
PSL	2,900	2,200,000			
LVL	2,600	2,000,000			
LSL HEADERS	2,325	1,550,000			
LSL STUDS	1,900	1,500,000			
LSL RIM BOARD	1,700	1,300,000			
LSL SILL PLATE (TREATED)	1,900	1,300,000			

FLEXURAL STRESS NOTED ABOVE ARE FOR A 12-INCH MEMBER. DEEPER MEMBERS SHALL BE DESIGNED FOR REDUCED STRESSES PER THE MANUFACTURER'S REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTION NOTES:

- 1. SPECIAL INSPECTIONS SHALL CONFORM TO SECTION 1705 OF THE 2014 OSSC, CONTRACT DOCUMENTS AND APPROVED SUBMITTALS. REFER TO TABLES 1 THROUGH 5 FOR SPECIAL INSPECTION AND TABLE 6 FOR TESTING REQUIREMENTS.
- 2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM E329 (MATERIALS). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE ARCHITECT A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER SECTION 6.1.4.1.1 OF AWS D1.1.
- 3. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS.
- THE SPECIAL INSPECTOR AND GEOTECHNICAL ENGINEER SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, STRUCTURAL ENGINEER, ARCHITECT, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPANCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.
- 5 INSPECTION TYPES

CONTINUOUS: THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED.

PERIODIC: THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK.

OBSERVE: OBSERVE THESE FUNCTIONS ON A RANDOM, DAILY BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS. PERFORM: INSPECTIONS SHALL BE PERFORMED PRIOR TO THE FINAL ACCEPTANCE OF THE ITEM.

- PERFORM INSPECTION PRIOR TO FINAL ACCEPTANCE OF THE ITEM FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF SKILLS AND TOOLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THAT THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THAT THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED
- SPECIAL INSPECTION OF MECHANICAL POST INSTALLED ANCHORS SHALL BE IN STRICT CONFORMANCE WITH THE ICC REPORT AND MANUFACTURERS INSTALLATION REQUIREMENTS. ANCHOR INSTALLERS SHALL BE QUALIFIED AS REQUIRED BY JURISDICTION REQUIREMENTS.
- INSPECTION REPORTS SHALL IDENTIFY NAMES OF INSTALLERS.
- SPECIAL INSPECTOR SHALL PROVIDE DOCUMENTATION AT THE END OF ANCHOR INSTALLATIONS STATING THAT THE ANCHORS WERE INSPECTED PER APPROVED ANCHOR EVAULATION REPORT.

CONTRACTOR RESPONSIBILITY:

THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND-OR SEISMIC-FORCE-RESISTING SYSTEM, OR A WIND-OR SEISMIC-RESISTING COMPONENT LISTED IN TABLES 4, AND 5 SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN THE FOLLOWING:

ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.

- 1. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS APPROVED BY THE BUILDING OFFICIAL.
- PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING AND DISTRIBUTION OF THE REPORTS.
- 3. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

SPECIAL INSPECTIONS AND TESTING

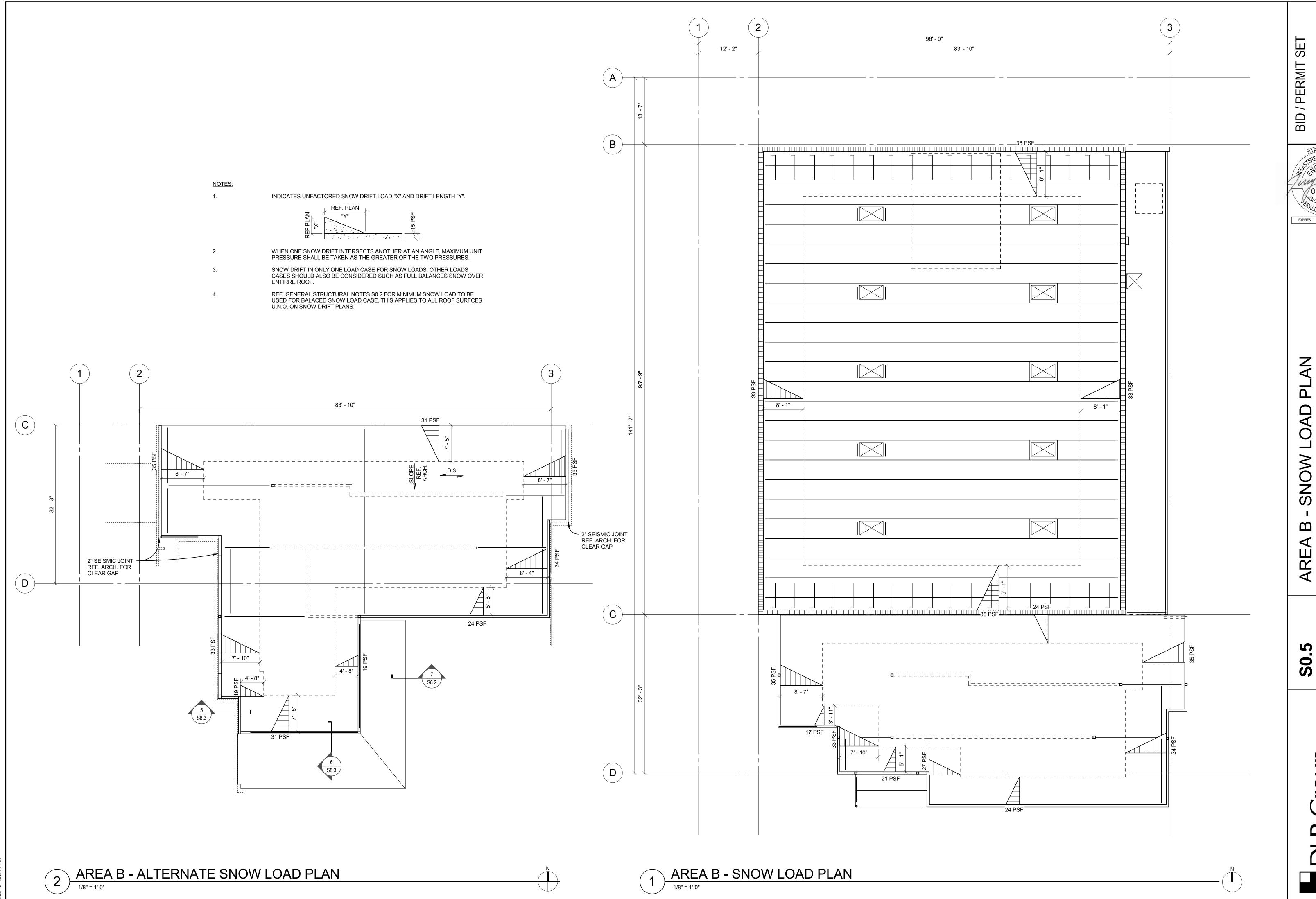
TABLE	1 - REQUIRE	D GEOTECHNIC	CAL SPECIAL IN	SPECTIONS	<u> </u>												
		INSPEC	TION														
SVETEM OD MATERIAL	OSSC CODE REFERENCE	CODE OR STANDARDS REFERENCE	FREQUENCY	(NOTE 6)	REMARKS												
SYSTEM OR MATERIAL			CONTINUOUS	PERIODIC	KEWAKAS												
		SOILS															
VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY	1705.6	33123		Х													
VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		1705.6	1705.6	1705.6			Х										
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS					1705 6	1705 6	1705.6	1705.6	1705.6	1705.6	1705 6	1705 6	1705.6	GEOTECHNICAL		Х	BY THE GEOTECHNICAL ENGINEER
VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL					REPORT	X		DI THE GEOTEORINGAL ENGINEER									
PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY				Х													

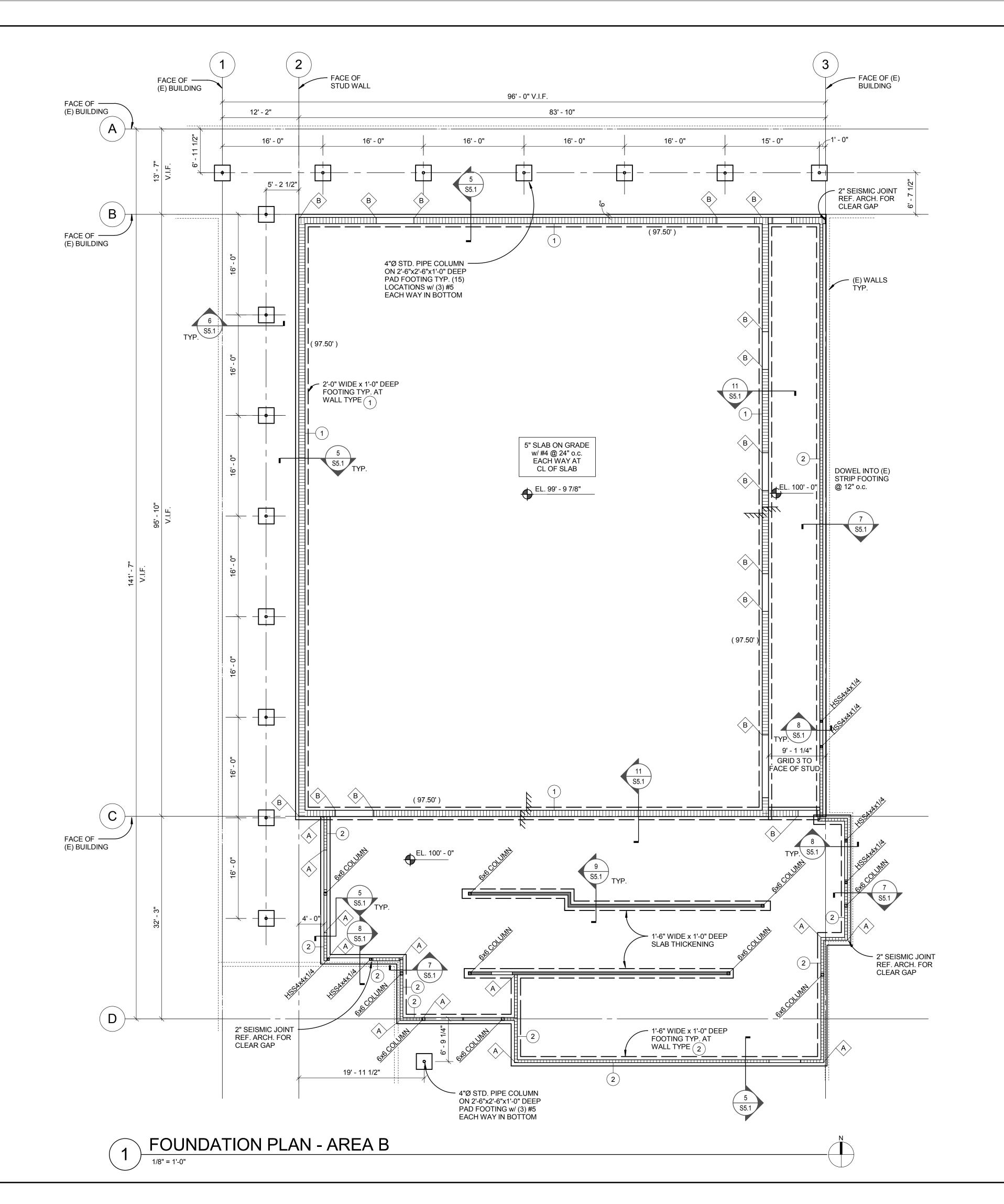
TABLE 4 - F	REQUIRED SPE	CIAL INSPECT	IONS FOR SEIS	MIC RESIST	ΓANCE
		INSPE	CTION		
SVSTEM OD MATERIAL	2222 2225	CODE OR STANDARD REFERENCE	FREQUENCY (NOTE 6)		REMARKS
SYSTEM OR MATERIAL	OSSC CODE REFERENCE		CONTINUOUS	PERIODIC	REWARNS
	-	GENERAL	-		
DESIGNATED SEISMIC LOAD-RESISTING SYSTEMS (SLRS)	1704.3.2 1705.11				REFERENCE GENERAL STRUCTURAL NOTES FOR OUTLINE OF (SLRS) SYSTEM. REFERENCE TABLE 4 FOR MATERIAL SPECIFIC INSPECTIONS REQUIREMENTS
DESIGNATED SEISMIC SYSTEMS (SECONDARY)					REFERENCE TABLE N1 AND N2 FOR INSPECTION REQUIREMENTS
		WOOD			
CONNECTIONS FOR DIAPHRAGM CHORDS, COLLECTORS, BRACING, AND SHEAR WALL ANCHORAGE AND HOLDOWNS				Х	ALL FASTENERS/CONNECTIONS VISUALLY INSPECTED
FASTENING OF DIAPHRAGM AND SHEAR WALL SHEATHING WITH EDGE NAILING ≤ 4"				Х	FOR WOOD SHEAR WALLS, SHEAR PANELS, AND DIAPHRAGMS. THIS INCLUDES NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS IN THE SEISMIC FORCE RESISTING SYSTEM

TABLE 5 - I	REQUIRED SI	PECIAL INSPEC	TIONS FOR WIN	ND RESISTA	NCE	
	INSPECTION					
SYSTEM OR MATERIAL	CODE OR		FREQUENCY (NOTE 6)		REMARKS	
STSTEW OR WATERIAL	OSSC CODE STANDARD REFERENCE	CONTINUOUS	PERIODIC	KLWAKKO		
WOOD						
NAILING, BOLTING, ANCHORING, AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WIND-FORCE RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, COLLECTORS, BRACES, AND HOLDOWNS	1705.10.1			Х	SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS AND DIAPHRAGMS WHERE FASTENER SPACING IS MORE THAN 4 INCHES ON CENTER. REFER TO TABLE 2 FOR MATERIAL SPECIFIC REQUIREMENTS	
		GENERAL				
ROOF CLADDING AND WALL CLADDING	1705.10.3			Х		

TESTING

TABLE 6 - REQUIRED TESTING FOR SPECIAL INSPECTIONS						
	INSPECTION					
		CODE OR STANDARD REFERENCE	FREQUENCY	(NOTE 6)		
SYSTEM OR MATERIAL	OSSC CODE REFERENCE		CONTINUOUS	PERIODIC	REMARKS	
		GEOTECHNIC	AL			
FILL IN-PLACE DENSITY OR PREPARED SUBGRADE DENSITY	1705.6	VARIES; GEOTECHNICAL REPORT OR MINIMUM PER IBC APPENDIX J107.5, WHICHEVER IS GREATER		X	BY THE GEOTECHNICAL ENGINEER	
MATERIAL VERIFICATION		VARIES; CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		Х	BY THE GEOTECHNICAL ENGINEER	
CONCRETE						
CONCRETE STRENGTH	1705.3	ASTM C39				
CONCRETE SLUMP	ASTM C172 ASTM C 31	ASTM C143	EACH 150 CY NOF		FABRICATE SPECIMENS AT TIME FRESH CONCRETET	
CONCRETE AIR CONTENT	ACI318:5.6,5.8	ASTM C231	EACH 5000 SF O WALL PLACED E		IS PLACED	
CONCRETE TEMPERATURE		ASTM C1064				





NOTES:

1. (XXX.XX') INDICATES BOTTOM OF FOOTING ELEVATION. 2. EL. XXX'-XX" INDICATES TOP OF SLAB ELEVATION.

INDICATES EXISTING STRUCTURE.

FIELD VERIFY EXISTING DIMENSIONS AND ELEVATION.

REF. SHEET S5.1 FOR TYPICAL CONCRETE DETAILS.

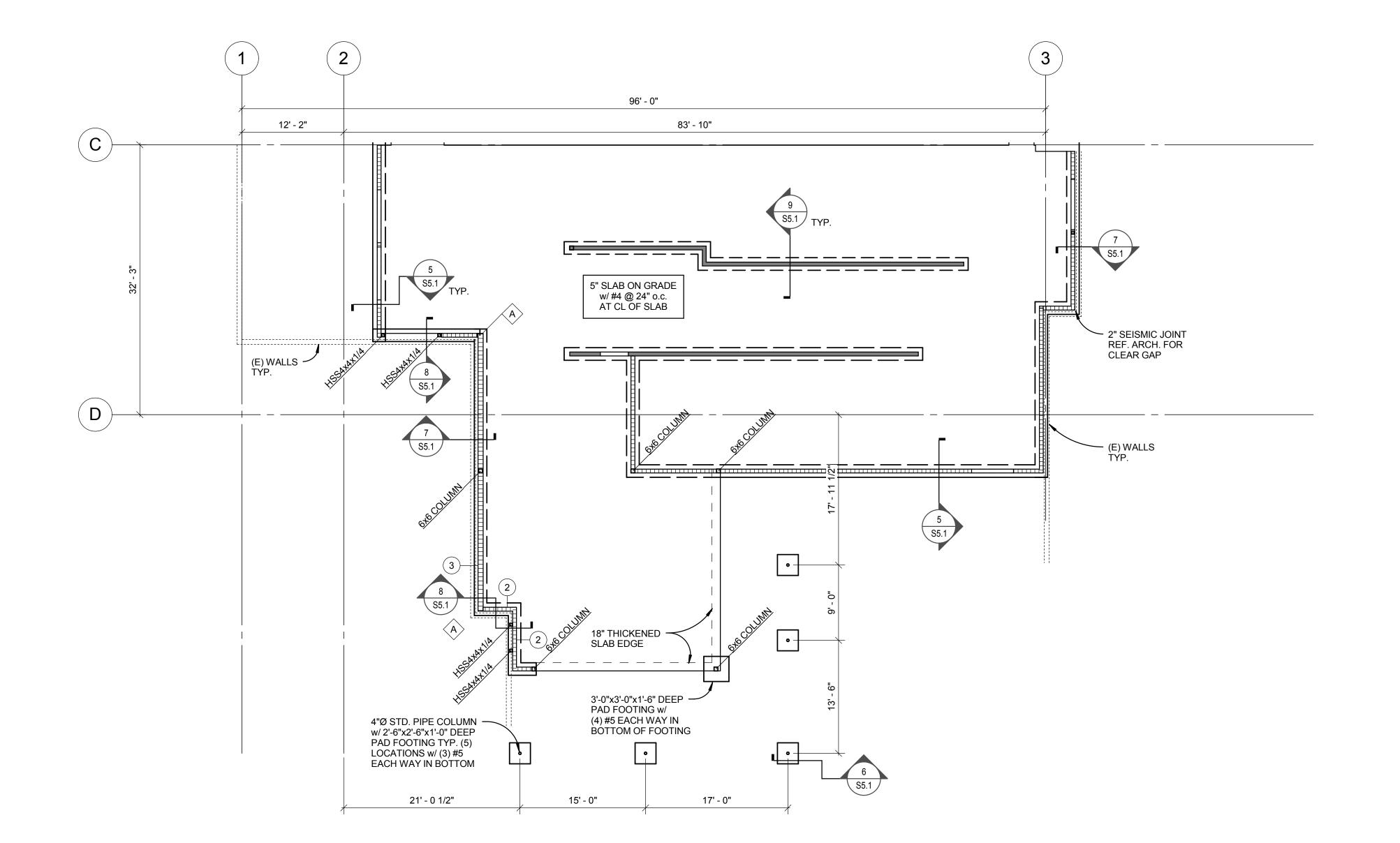
WALLS ARE TO BE FULLY BLOCKED. INDICATES LOCATION OF HOLDOWN AND POST. REF. HOLDOWN SCHEDULE 5/S8.1. REF. 8/S8.1 FOR HOLDOWN AT CORNERS AND INTERSECTIONG WALLS.

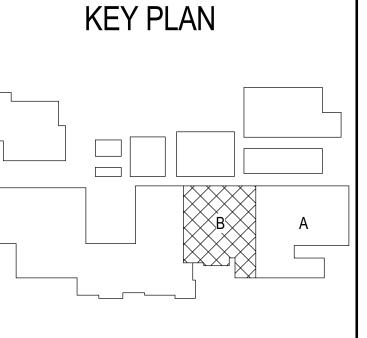
INDICATES TIMBER STUD SHEAR WALL. REF. 1/S8.1. SHEAR

INDICATES LOAD BEARING TIMBER STUD WALL w/ 2x6 STUDS @ 24" o.c.

REF. 10/S5.1 FOR DETAILS WHERE PIPES RUN BELOW OR THROUGH FOOTINGS.

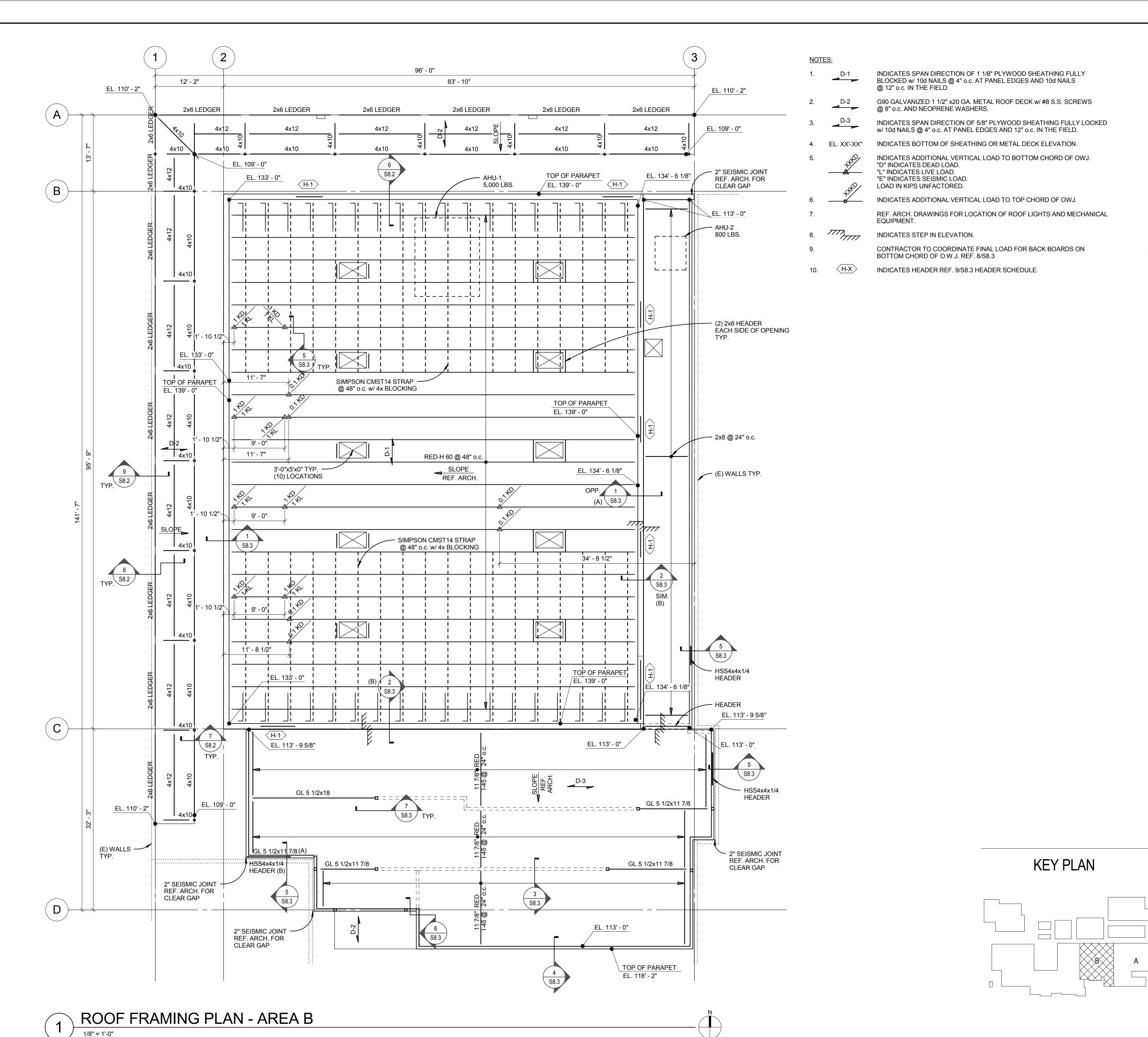
PROVIDE DOUBLE STUDS UNDER ALL O.W.J.





KEY PLAN

BID / PERMIT SE



C:\Users\scotts\Documents\21432320-KPFF-Elmira_HS-Centra

SE

PERMIT

_

BID

TERED PROFES

OREGON

EXPIRES

12-31-17

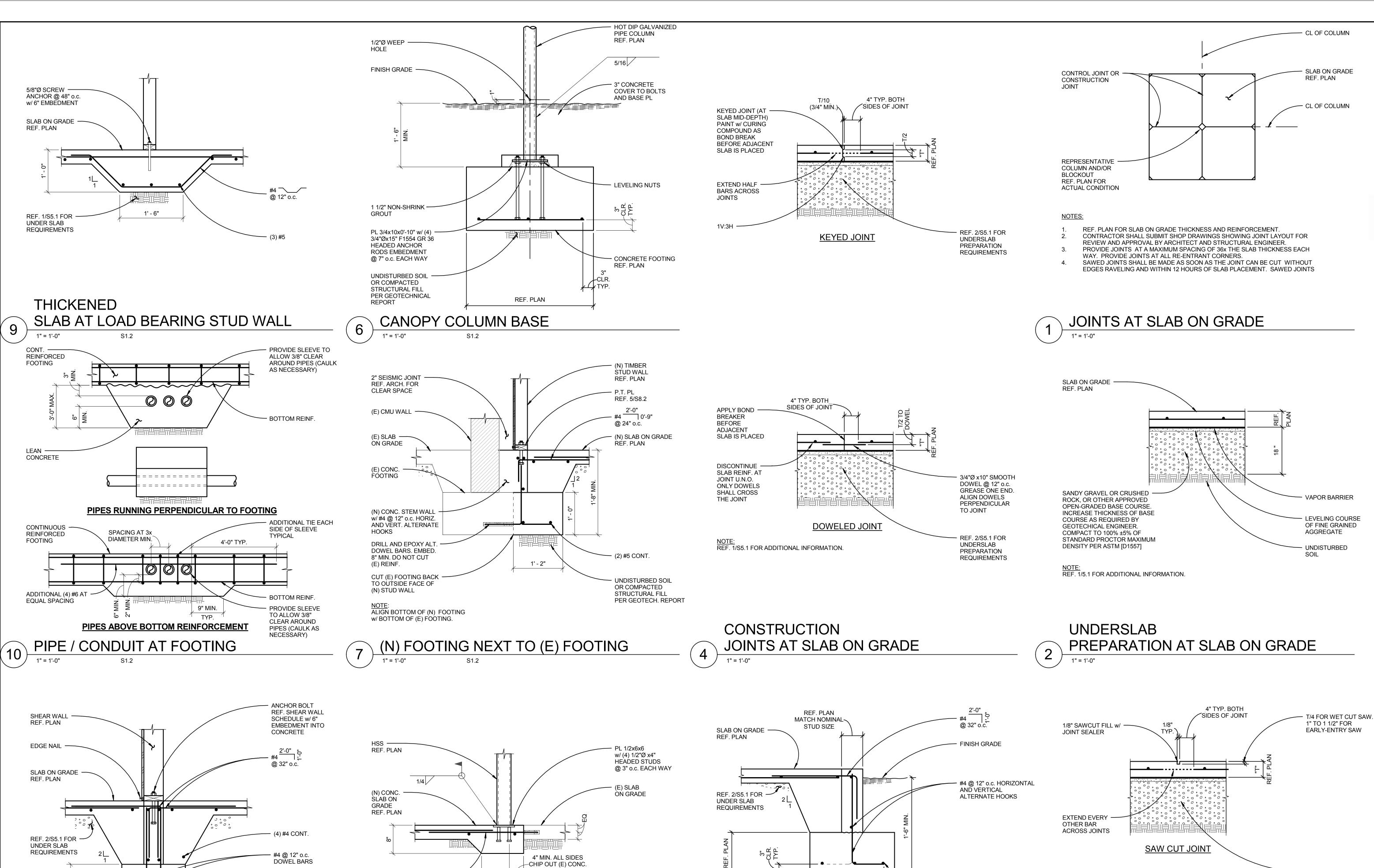
NOTE:

REF. S4.2 FOR INFORMATION NOT SHOWN.

KEY PLAN

ROOF FRAMING PLAN - AREA B LOBBY ALTERNATE

83' - 10" 12' - 2" EL. 113' - 9 5/8" EL. 113' - 9 5/8" - HSS4x4x1/4 GL 5 1/2x18 -**c**========= HEADER GL 5 1/2x11 7/8 GL 5 1/2x11 7/8 (A)
HSS4x4x1/4
HEADER (B) 2" SEISMIC JOINT REF. ARCH. FOR CLEAR GAP GL 5 1/2x11 7/8 2" SEISMIC JOINT REF. ARCH. FOR CLEAR GAP 2x6 LEDGER GL 5 1/2x15 TOP OF PARAPET EL. 118' - 2" EL. 113' - 0"__ (E) WALL —— TYP. 2" SEISMIC JOINT -REF. ARCH. FOR CLEAR GAP EL. 112' - 6 1/8" GL 5 1/2x18



INTERIOR SHEAR WALL FOOTING S1.2

REF.

CLR.

TYP.

3" CLR.-TYP.

DOWEL BARS

(3) #5 CONT.

FIRE DOOR JAMB BASE S1.2

(2) #5 @ 6" o.c. DRILL AND EPOXY 6" INTO

(E) SLAB ON GRADE

AS REQ'D.

1' - 0"

1" = 1'-0" S1.2

UNDISTURBED SOIL

STEM WALL DETAIL

REF. 2/S5.1 FOR UNDERSLAB NOTE: REF. 1/S5.1 FOR ADDITIONAL INFORMATION. PREPARATION REQUIREMENTS

CONTROL JOINTS IN SLAB ON GRADE 3

(3) #5 CONTINUOUS

CLR. TYP.

REF. PLAN

Group

S5. 74-13107-40 03/03/16 REVISIONS

S

PE

BID

OREGON

12-31-17

WOOD SHEAR WALL SCHEDULE SILL PLATE FRAMING SOLE PLATE SILL PLATE STRUCTURAL **EDGE NAILING** SHEAR CLIPS **MEMBERS** SYMBOL FASTENING **THICKNESS** FASTENING PANEL SHEATHING A35 @ 24" o.c. _SL 1 1/2x11 7/8 5/8"Ø A.B. @ 10d @ 4" o.c. 10d x 3 1/2 @ 4" o.c. 15/32" MIN. (1) PER BAY @ 12" o.c. 4'-0" o.c. 5/8"Ø A.B. @ A35 @ 20" o.c. 15/32" 10d @ 4" o.c. 2x6 @ 16" o.c. 10d x 3 1/2 @ 4" o.c. MIN. (1) PER BAY 2'-8" o.c. 5/8"Ø A.B. @ A35 @ 20" o.c. 2x8 @ 12" o.c. 15/32" 10d @ 6" o.c. 10d x 3 1/2 @ 6" o.c. 4'-0" o.c. MIN. (1) PER BAY

SHEAR WALL SCHEDULE NOTES:

- ALL PANEL EDGES SHALL BE BACKED WITH 2" NOMINAL OR WIDER FRAMING. PANELS SHALL BE INSTALLED EITHER HORIZONTALLY OR VERTICALLY. SPACE NAILS @ 12" o.c. ALONG INTERMEDIATE FRAMING MEMBERS.
- FOUNDATION SILL PLATES, SOLE PLATES AND ALL FRAMING MEMBERS RECEIVING EDGE NAILING FROM ABUTTING PANELS OR FROM (2) SIDES SHALL NOT BE LESS THAT A SINGLE 3" NOMINAL MEMBER U.N.O. NAILS SHALL BE STAGGERED. PROVIDE 1/2" EDGE DISTANCE AT EDGE NAILING.
- AT ALL ANCHOR BOLT LOCATIONS, PROVIDE SIMPSON BPS BEARING PLATES. REF. 3/S8.1.
- A MINIMAL NAIL PENETRATION OF 1 1/2" INTO THE MAIN MEMBER IS REQUIRED FOR 10d NAILS.
- PREDRILL NAIL HOLES TO PREVENT SPLITTING OF FRAMING AS REQUIRED AND STAGGER NAILS WHEN POSSIBLE.

STANDARD CUT

WASHER AND **ANCHOR BOLT**

- ALL FASTENERS IN CONTACT WITH PRESSURE TREATED SILL PLATES SHALL BE GALVANIZED.
- FOR SHEAR WALL ELEVATIONS, REF. 2/S8.1.
- FOR SOLE PLAE THICKNESS REF. NOTE 2.

WOOD TOP PLATE SPLICE DETAIL

NOTES:
1. SPLICE SHALL OCCUR OVER A STUD.

4' - 0"

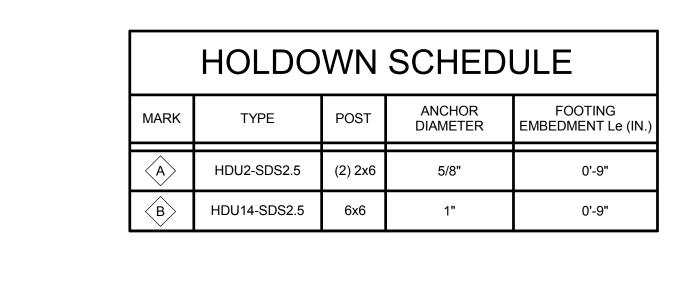
STRAP OPTION

SHEAR WALL SCHEDULE

PLATE THICKNESS -0.229" OR SIMPSON BPS BEARING PLATE

— DOUBLE TOP PL

` 0.148"Ø NAILS @ 16" o.c.



SIMPSON MSTC28 CENTERED

BETWEEN

SPLICE |

POINTS

2x STUDS -

d/3 MAX.

USE 5/8"Øx10" ANCHOR BOLTS.

- TYP. DUCT

BOLT BOLTING - BEARING WALLS

SILL PLATE

MATCH SHEAR -

SHEAR WALL -**EDGE NAILING**

CONFIGURATION SHALL BE

THE SAME FOR ALL

MATCH SHEAR ---

WALL EDGE

SHEAR WALL -

EDGE NAILING

HOLDOWN

REF. PLAN

MATCH SHEAR

HOLDOWN POST

WALL EDGE

NAILING

REF. PLAN

NAILING

CONDITIONS WHERE

STRAP HOLDOWNS ARE

WALL EDGE

NAILING

NOTE: THE STUD

USED.

WHERE OCCURS

BOLTS CLEAR OF STUDS AND POSTS.

BEARING WALL ANCHOR BOLT SPACING = 4'-0" o.c. MAX.

2. EACH SILL PIECE SHALL HAVE (2) BOLTS MIN. LOCATE

"A" DIMENSION SHALL BE 4 1/2" MIN. AND 12" MAX.

SHALL BE FILLED w/ EPOXY FOR TIGHT FIT.

ALL OVERSIZED BOLT HOLES (HOLES > 1/16" + A.B. Ø)

HOLDOWN POST

REF. PLAN

HOLDOWN

- SHEAR WALL **EDGE NAILING**

MATCH SHEAR WALL

EDGE NAILING

SHEAR WALL

SHEAR WALL

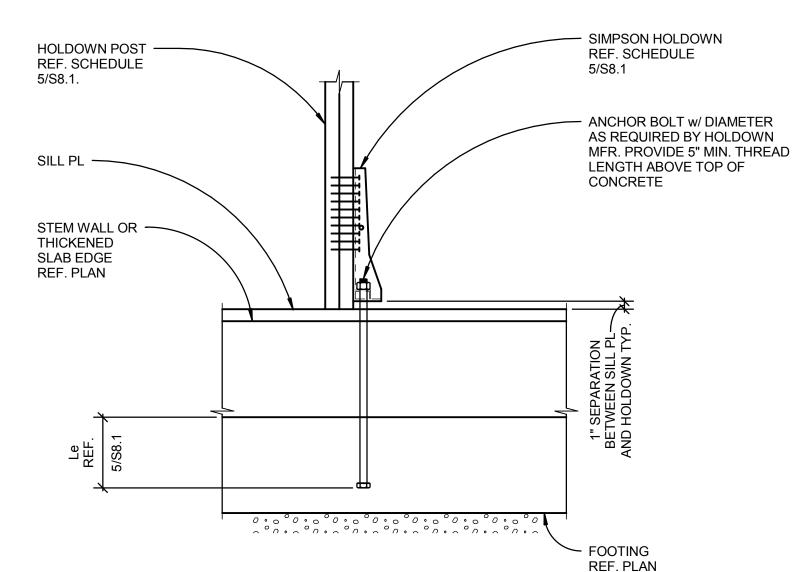
EDGE NAILING

EDGE NAILING

REF. PLAN

- REF. TYP. HOLDOWN DETAIL 6/S8.1 FOR DEFINITION OF Le.
- ANCHORS SHALL BE ASTM F1554 GRADE 36 HEADED ANCHOR BOLTS.
- ALL HOLDOWNS SHALL BE INSTALLED WITH STRICT CONFORMANCE TO MANUFACTURER'S REQUIREMENTS.

SEHAR WALL HOLDOWN SCHEDULE



SHEAR WALL HOLDOWN AT FOUNDATION

SILL PLATE **BOLT BOLTING - SHEAR WALLS** 1" = 1'-0"

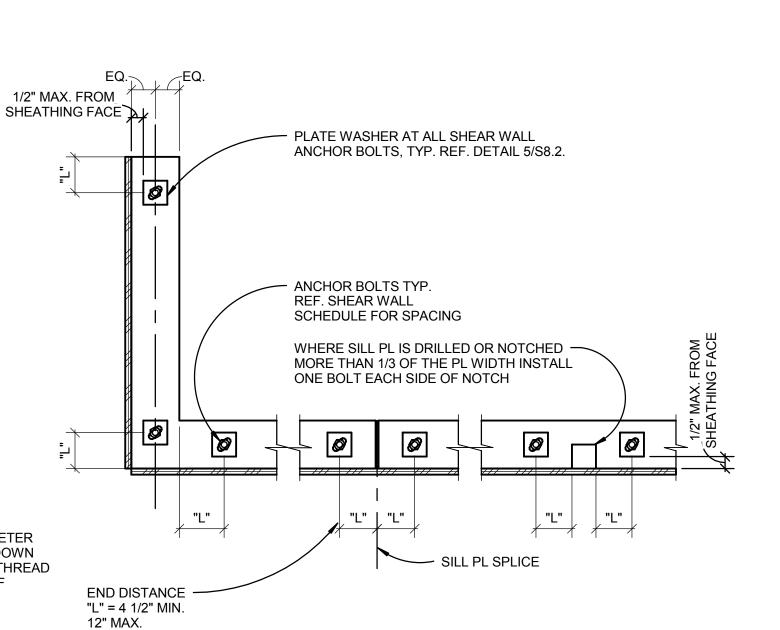


PLATE WASHER

- ALL SILL PL'S SHALL BE PRESSURE TREATED D.F. OF WIDTH EQUAL TO DEPTH OF STUDS.
- ALL OVERSIZED BOLT HOLES (HOLES > 1/16" + A.B. Ø) SHALL BE FILLED w/ EPOXY FOR TIGHT FIT.
- LOCATE BOLTS CLEAR OF STUDS AND POSTS.
- REF. 3/S8.2 FOR NOTHING AND DRILLING AT PLATES.
- PROVIDE A MINIMUM OF TWO BOLTS PER SILL PIECE.
- WHERE SHEATHING OCCURS ON BOTH FACES, ALTERNATE LOCATIONS OF PLATE WASHERS BETWEEN FACES.

S8.1 Z **SHEAR WALL ELEVATION NOTES:**

- TYPICAL WALL STUDS.
- WOOD STRUCTURAL PANEL SHEATHING. LAY HORIZONTALLY OR VERTICALLY. REF. SHEAR WALL SCHEDULE 1/S8.1 FOR ADDITIONAL REQUIREMENTS.
- 3. P.T. SILL PLATE, REF. 5/S8.1
- DOUBLE TOP PLATE, REF. 4/S8.1 FOR TOP CHORD SPLICE DETAIL.
- HOLDOWN ANCHOR, REF. SCHEDULE 5/S8.1.
- ANCHOR BOLTS.
- FOUNDATION, STEMWALL OR THICKENED SLAB
- EDGE NAILING REF. SHEAR WALL SCHEDULE.
- INTERMEDIATE SUPPORT NAILING REF. SHEAR WALL SCHEDULE.
- PROVIDE EDGE NAILING TO EACH HOLDOWN POST. WHERE HOLDOWN POST CONSISTS OF BUILT UP MEMBERS, PROVIDE STAGGERED NAILING TO EACH
- 11. HOLDOWN POST.
- ALL SHEATHING EDGES ARE TO BLOCKED. REF. SHEAR WALL SCHEDULE FOR FRAMING THICKNESS AT ADJOINING PANEL EDGES.
- 13. ROOF SHEATHING.
- ROOF RAFTER OR TRUSS.
- 15. BLOCKING.
- 16. "SHEAR CLIP" PER SHEAR WALL SCHEDULE

SHEAR WALL **ELEVATION - SINGLE STORY**

HOLDOWNS AT CORNERS

SHEAR WALL REF. PLAN METAL DECK HOT DIPPED -REF. PLAN ZINC COATED NAILS AT SILL PLATE 1/4" GAP -BETWEEN SHEATHING AND CONC.

TIMBER BEAM

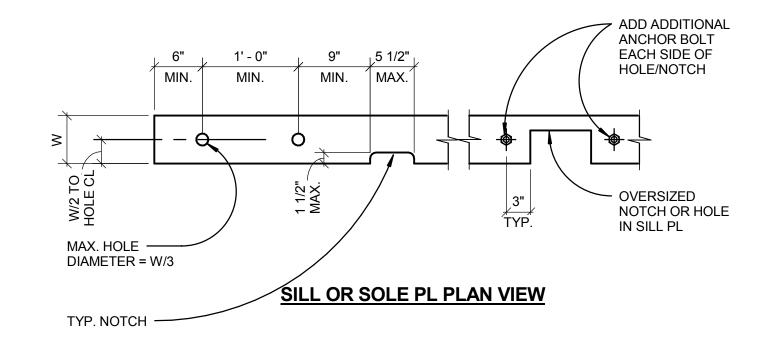
REF. PLAN

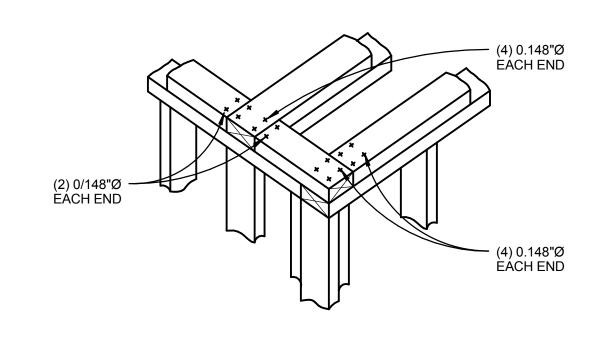
REF. SILL PLATE BOLTING DETAIL 3/S8.1 FOR ADDITIONAL INFORMATION. REF. SHEAR WALL SCHEDULE FOR ANCHOR NOLT SIZE AND SPACING.

2" MIN. CLR.

FROM EITHER-

WALL FACE ∤





CANOPY CONN. TO (E) CMU WALL

(E) CMU WALL

SIMPSON STRONG TIE MBHU 3.56

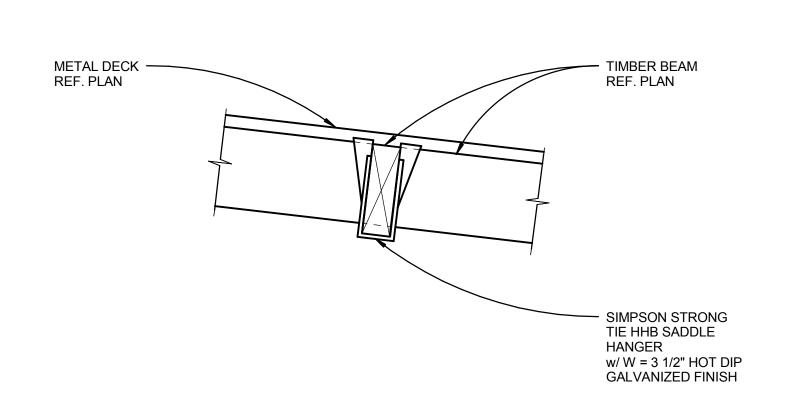
HANGER w/ 3/4"Øx5"

HOLLOW OR SOLID

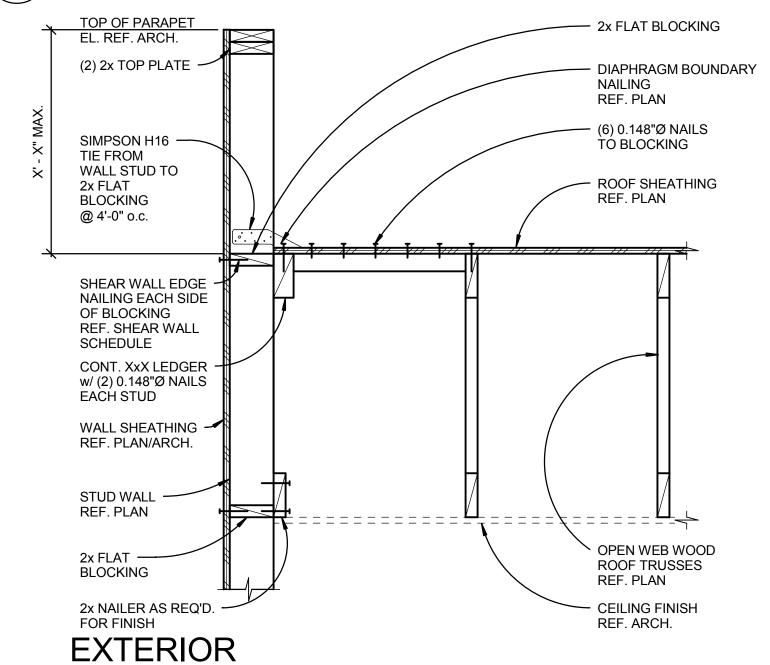
TITEN HD SCREW

ANCHORS INTO

CMU



SHEAR WALL ANCHORAGE AT FOUNDATION



MAX. HOLE MAX. HOLE -DIAMETER DIAMETER = 1 1/2" 3/4" WITH NO REINFORCEMENT **TOP PL PLAN VIEW**

MAX.

1' - 4"

1' - 0"

MIN.

2' - 0"

MIN.

ANCHOR BOLT

WALL SCHEDULE

REF. SHEAR

REF. 3/S8.1

- P.T. SILL PLATE

- SLAB ON GRADE

WHERE OCCURS

#4 CONT. BARS

EACH SIDE OF

ANCHOR BOLT

- "W" DENOTES WIDTH OF WOOD MEMBER
- SILL PL NOTES:

SIMPSON RPS22 -

ON EACH PL

- WHERE NOTCH IS GREATER THAN NOTED, PROVIDE ADDITIONAL
- ANCHOR BOLT EACH SIDE OF NOTCH. WHERE BOLT IS LESS THAN 1" CLR. FROM EDGE, PROVIDE ADDITIONAL ANCHOR BOLT.
- ALL OVERSIZED BOLT HOLES (HOLES GREATER THAN 1/16" -ANCHOR BOLT DIA.) SHALL BE FILLED W/ EPOXY FOR TIGHT FIT.
- WHERE NOTCHED OR DRILLED HOLE IN TOP PLATE EXCEEDS ALLOWABLE CONTACT KPFF CONSULTING ENGINEERS.
- ALL HOLES TO DRILLED, NOT SAWN.

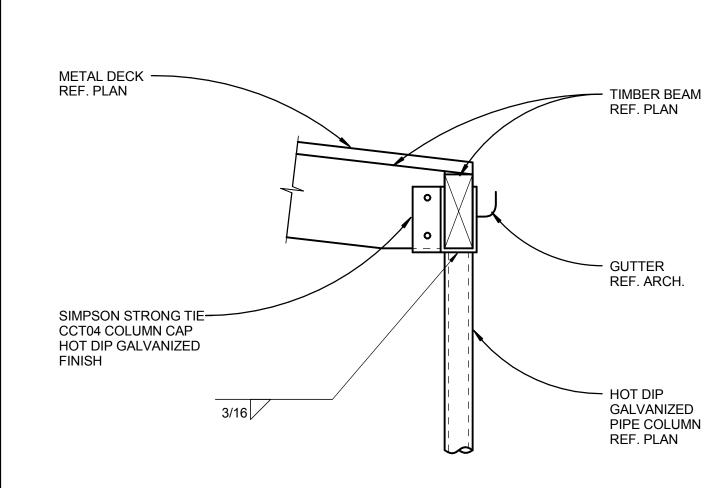
HOLES AND

ALL NOTCHES TO HAVE CORNERS PREDRILLED.

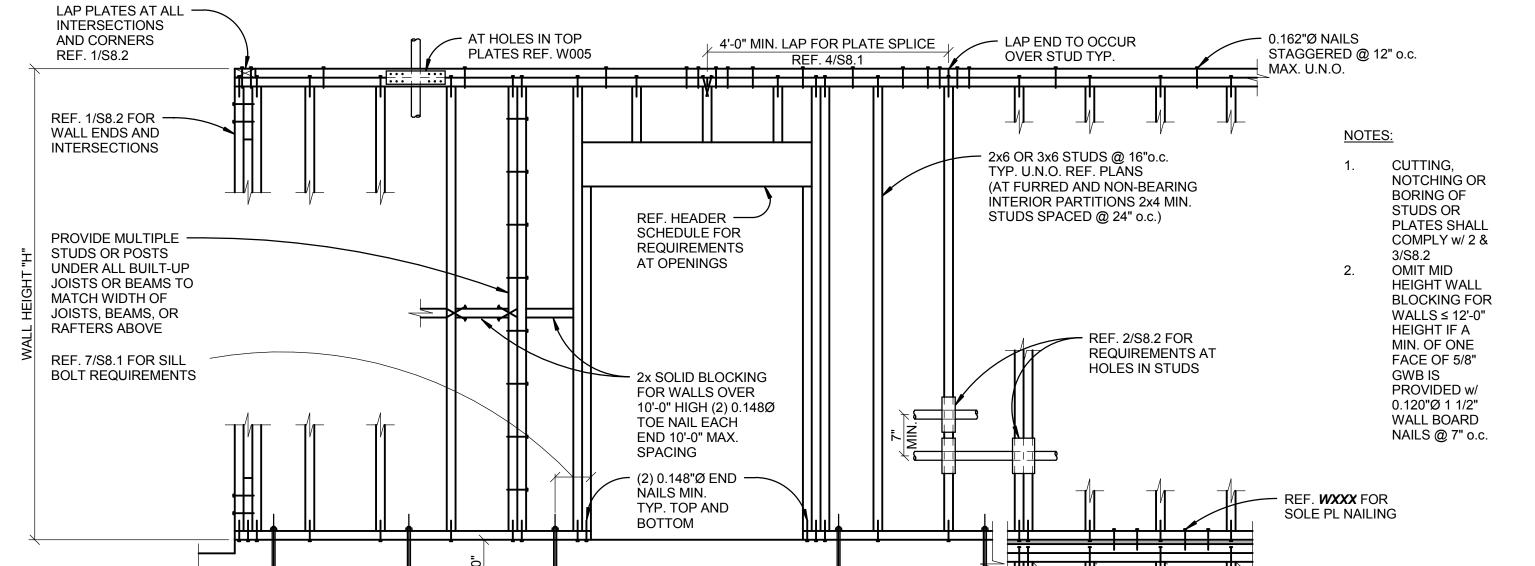
NOTCHES AT WALL PLATES

— 0.148"Ø @ 6" o.c. 1 1/2" @ 12" o.c. TYP. NOTE: REF. 8/S8.1 FOR REQUIREMENTS

CANOPY CONN. AT INTERMEDIATE BEAM



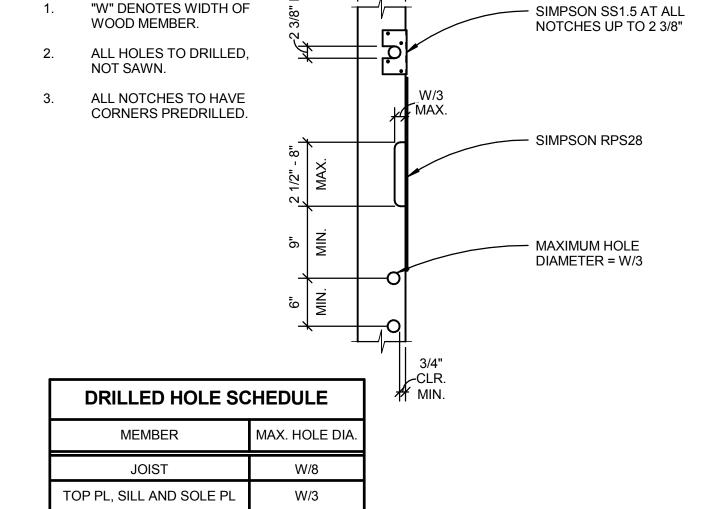
WALL AT ROOF TRUSS - PARAPET 6



TYPICAL WALL ELEVATION

TYPICAL WALL CORNERS

AT SHEAR WALLS.



STUD ELEVATION

HOLES AND NOTCHES AT STUDS





P/T PODIUM SLAB

2x6 BLOCKING

- TOP CHORD

- PLYWOOD

- EDGE NAIL REF. PLAN

— 2x BLOCKING AT

LTT19 STRAP

- PLYWOOD SHEATHING REF. PLAN

— JOISTS

REF. PLAN w/ TOP FLANGE

SIMPSON LTT19 STRAP w/ 1/2"Ø w/ 1 1/2"

PENETRATION INTO BLOCKING BETWEEN

STUDS. OMIT STRAP

- 2x BLOCKING w/

· ROOF JOIST REF. PLAN

DOUBLE TOP PL

STUD WALL

REF. PLAN

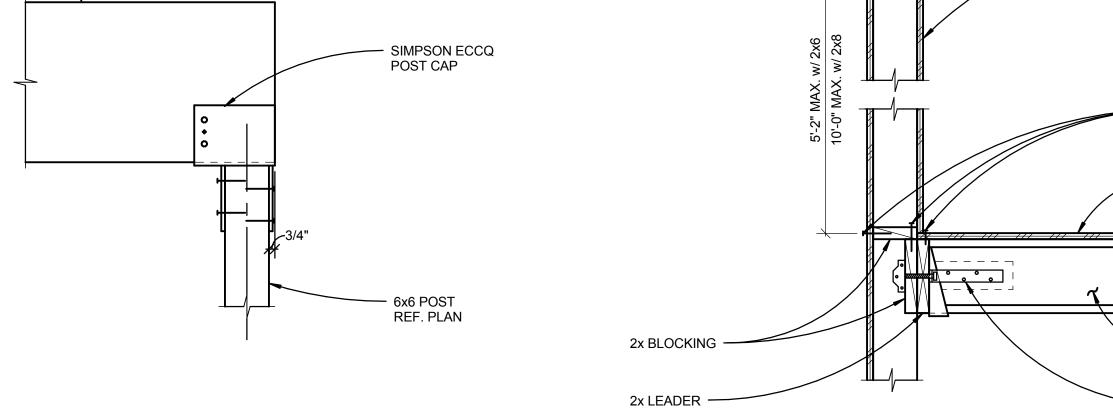
(2) 16d TOE NAILS EACH END

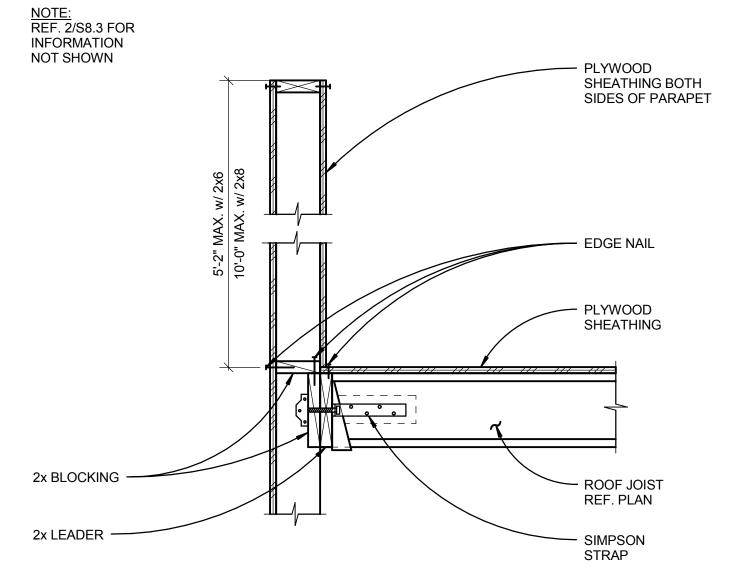
HANGER

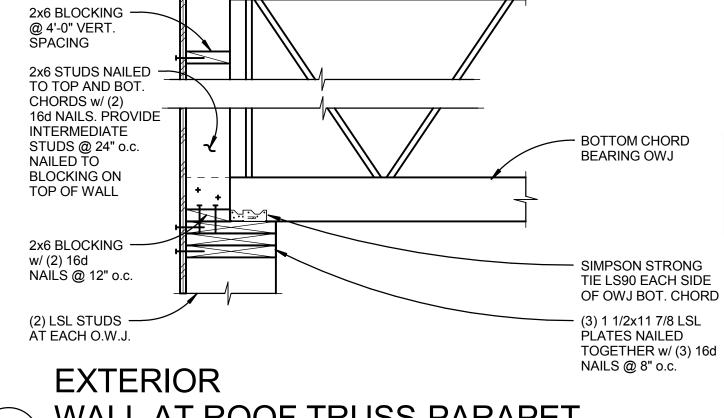
AT SIM.

SHEATHING REF. PLAN

REF. PLAN · SIMPSON ECCQ POST CAP 6x6 POST REF. PLAN



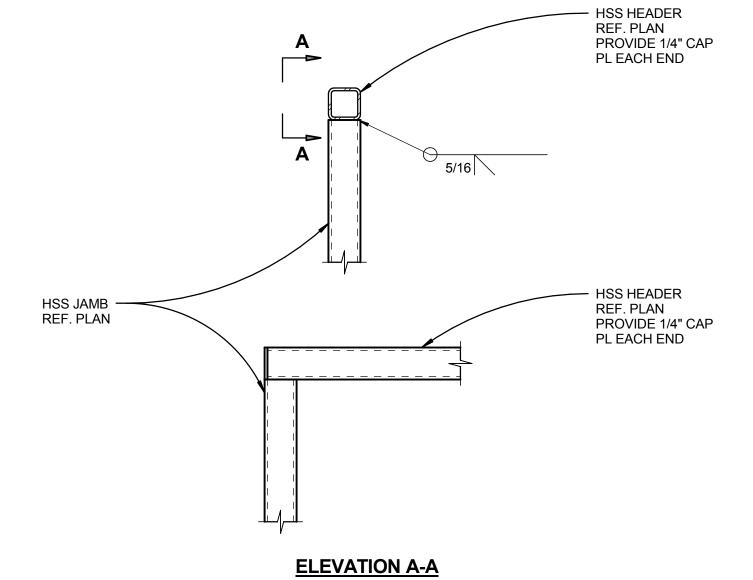




WOOD BEAM AT WOOD POST

BEAM —







2x6 CONT. TOP PL

EDGE NAILING -

EDGE NAILING -

2x6 CONT. TOP PL

EDGE NAILING —

STUD WALL

2x BLOCKING w/ A35 —

SCREWS EACH END INTO STUDS USE

2x LEADER w/ (3) SDS

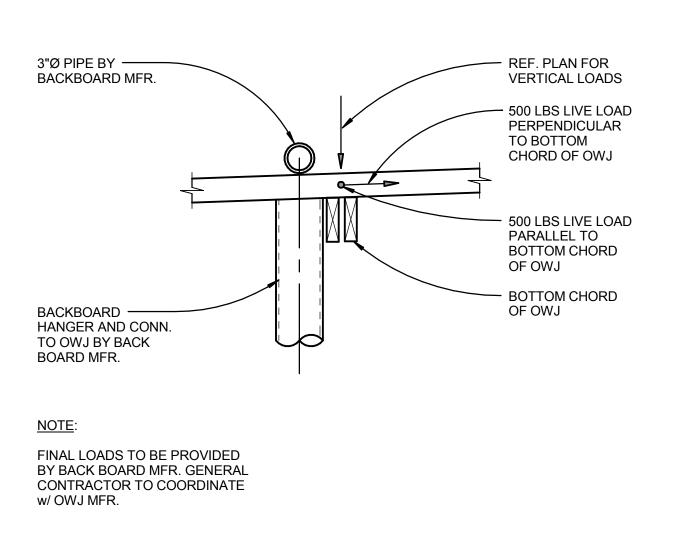
25312 SCREWS @ 6" o.c. HORIZONTAL SPACING

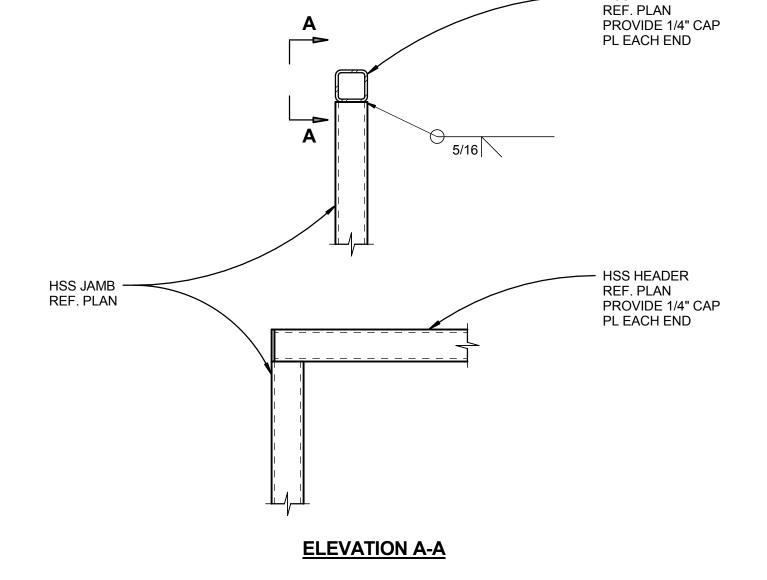
CLIP w/ SD9112

8dx1 1/2 NAILS AT

EDGE NAIL -

REF. PLAN

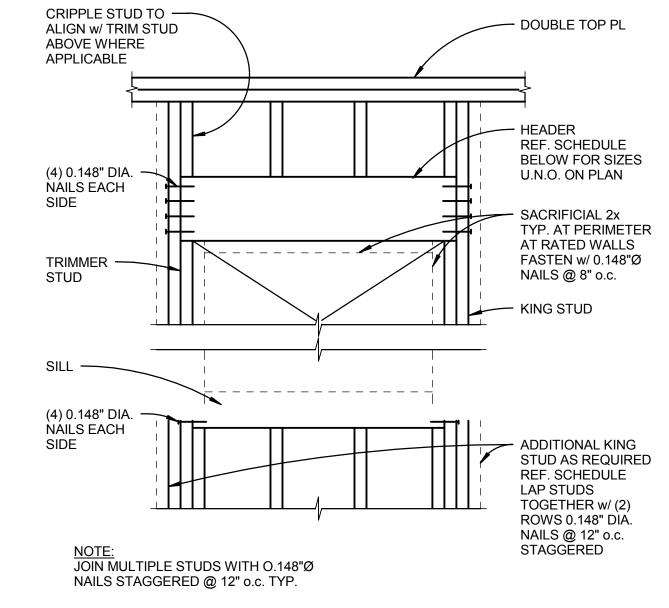


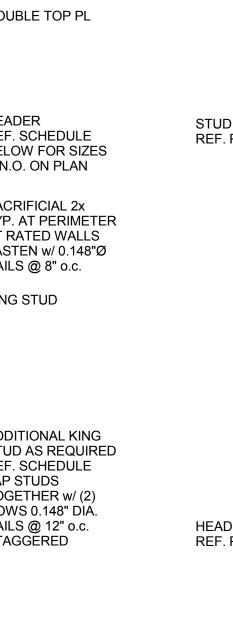


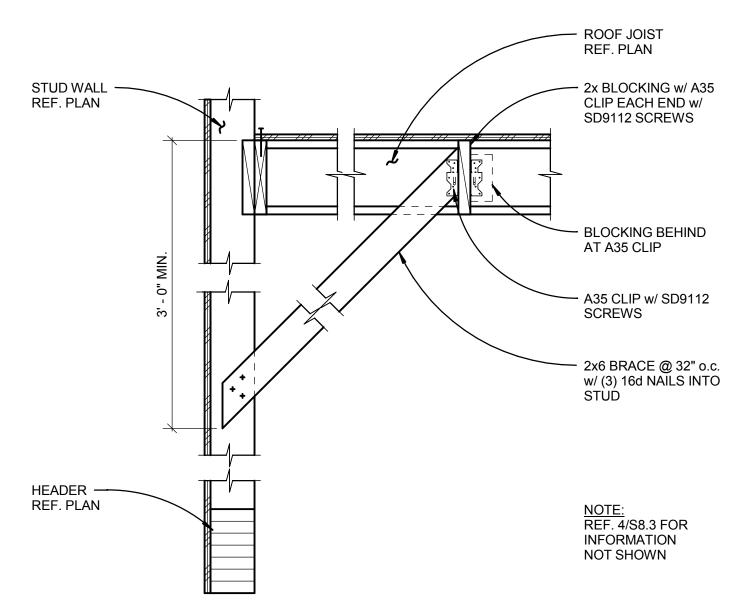
S0.5

DOOR JAMB TO HEADER CONNECTION ROOF TO WALL CONNECTION S4.2

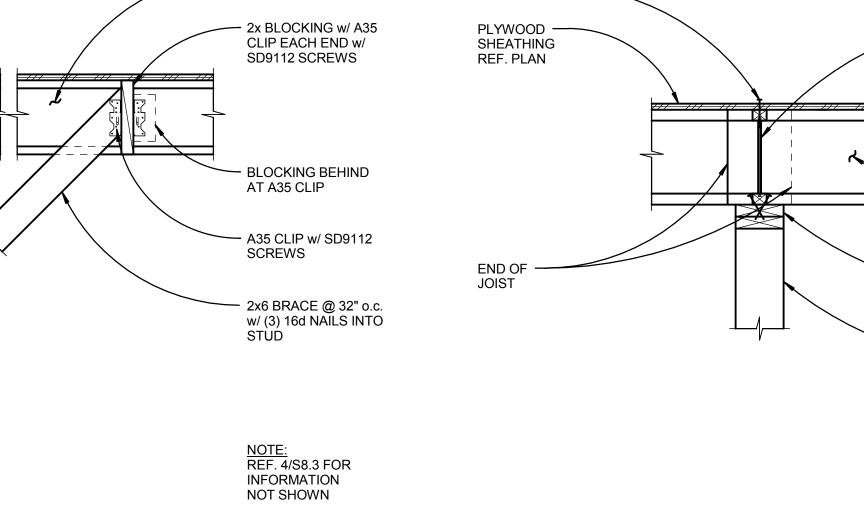
BACKBOARD ATTACHMENT TO OWJ







6	BRAC	FOR HEADER AT OPENING _{\$0.5}
0	1" = 1'-0"	S0.5



TYPICAL OPENING DETAIL

LOAD BEARING WALLS

(4) 1 1/2x11 7/8 LSL (4) 1 1/2x11 7/8 LSL

NON-LOAD BEARING WALLS

SILL

(2) 2x

SILL

TRIMMER

(1) 2x

HEADER

HEADER

(2) 2x6

TRIMMER

(2) 1 1/2x11 7/8 LSL

KING

(1) 2x

KING

(1) 1 1/2x11 7/8 LSL

JOIST OVER WALL

OPENING WIDTH

OPENING WIDTH

0'-0" TO 4'-0"

COLD WATER

CUBIC YARD

CYLINDER

DRAIN

DEPTH

DRY BULB

DOUBLE

DEGREE

DEPR

DISCH

DISTR

DO OR "

DIRECT CURRENT

DUST COLLECTOR

DEIONIZED WATER

DEPRESS(ION)(FD)

DRINKING FOUNTAIN

DIESEL FUEL RETURN

DIESEL FUEL SUPPLY

DIESEL FUEL VENT

DOOR GRILLE

DUCT HEATER

DUCTILE IRON

DIAMETER

DIAGONAL

DIFFUSER

DIMENSION

DISCONNECT

DISCHARGE

DEAD LOAD

DOWN

DOOR

DRAIN

DOWNSPOU^{*}

DISTILLED WATER

DRY STANDPIPE

DUCT THRU ROOF

DOUBLE EXTRA STRONG

ENTERING AIR TEMPERATURE

ELECTRICAL CONTRACTOR

ENERGY EFFICIENCY RATIO

EMERGENCY EYEWASH/SHOWER

EXTERIOR INSULATION AND FINISH SYSTEM

ENERGY MANAGEMENT CONTROL SYSTEM

ESTIMATED MAXIMUM DEMAND

ELECTRICAL METALLIC TUBING

EMERGENCY MIXING VALVE

ELECTRIC DUCT HEATER

FMFRGFNCY FYFWASH

ELECTRICAL HEATER

EXPANSION JOINT

DISHWASHER

DRAWING

DRAWFR

EXHAUST AIR

EACH END

FACH FACE

EXHAUST FAN

FFFICIENCY

ELEVATION

ELASTOMERIO

ELECTRIC(AL)

ELEVATOR

EMERGENCY

ENCLOSURE

EQUIPMENT

ESTIMATE

EACH WAY

EXCAVATE

EXHAUST

EXISTING

EXPOSED

EXTERIOR

FIRELINE

FURNACE

FIRE ALARM

FABRICATED

FACE BRICK

FLUID COOLER

FXPANSION

EXPLOSION

END OF MAIN DRIP

ELECTRO-PNEUMATIC

EMERGENCY POWER OF

EPOXY RESIN FLOORING

EXHAUST REGISTER

EXTRA STRONG

EXPANSION TANK

EMERGENCY SHOWER

EXTERNAL STATIC PRESSURE

ELECTRIC WATER COOLER

ENTERING WATER TEMPERATURE

ELECTRIC WATER HEATER

ENTRANCE

EEWS

EMCS

EMER

ENTR EOMD

EXH EXIST EXP

EMD

EXPANSION BOLT

DOWEL

EAST

DISTRIBUTION

DAMPER MOTOR

DAMPROOFING

DOWNSPOUT NOZZLE

DIFFERENTIAL PRESSURE SWITCH

DISCONNECT SWITCH

DISTILLED WATER

DEPARTMENT

DETENTION

DUMMY CONTROL JOINT

DIRECT DIGITAL CONTROL

PENNY (AS NAIL 10D)

DECIBEL

CONDOM VENDOR

CHILLED WATER RETURN

DEFORMED BAR ANCHOR

CHILLED WATER SUPPLY

ADJACENT ADMINISTRATION ARCHITECT/ENGINEER AIR FILTER ABOVE FINISH FLOOR ABOVE FINISH GRADE AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT AREA INLET ALTERNATE ALUMINUM AMBIENT ANCHOR ACCESS PANEL ACOUSTICAL PANEL CEILING APPROX APPROXIMATE

ACID RESISTIN ARCHITECTURAL **ASBESTOS** AUTOMATION ACID VENT AIR VENT **AVERAGE** ACID WASTE AMERICAN WIRE GAUGE ACOUSTICAL WALL PANEL BUILDING AUTOMATION SYSTEM BACK TO BACK **BOILER BLOW OFF** BALANCING COCK

BURNISHED CONCRETE MASONRY UNIT BACK DRAFT DAMPER BACKFLOW PREVENTER BELOW FLOOR **BOILER FEED BUTTERFLY VALVE** BREAK HORSE POWER **BUILDING LINE** BUILDING BLOCK

BLOCKING BLKHD BULKHEAD BEAM BENCH MARK BOTTOM OF DUCT BOTTOM OF FOOTING BOTTOM BRDG BRG BRKT BRIDGING FARING BRACKET I BSMTBASEMENT BATH TUB BRITISH THERMAL UNIT BTUH BRITISH THERMAL UNIT PER HOUR BUILT UP ROOFING

BALL VALVE CONDENSER WATER COMBUSTION AIR CABINET CANTILEVER

CAPACITY CHALKBOARD CONDENSATE DRAIN CLOSED CIRCUIT TELEVISION COVER ELEVATION CENTRIFUGAL CUBIC FEET CUBIC FEET PER HOUR CORNER GUARD

CURB INLET CAST IN PLACE CAST IRON PIPE CIRCULATING CONTROL JOIN CONTROL JOINT ABOVE CIRCUIT CKT BK CIRCUIT BREAKER CENTERLINE

CIRCUIT LINE CEILING CLOSET CLEAR CEILING MOUNTED CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEAN OUT CONDUIT ONLY CARBON DIOXIDE COL COM COMB COMM COLUMN COMMON

COMBINATION COMMUNICATIONS COMM COMMUNICATIONS
COMP COMPOSITIONS
COMP COMPRESSOR UNI
COMPR COMPRESSIBLE
CONC CONCRETE
CONF CONFERENCE
CONFIG CONFIGURATION COMPRESSOR UNIT CONNECT

CONN CONNECTION CONSTRUCTION CONTINUOUS OR CONTINUATION CONTR CONTRACTOR OR CONTRACT CONV CONVECTOR CONDENSER PUMP CYCLES PER SECOND CONDENSER WATER RETURN

FOOT CANDLE CORROSION RESISTANT COUNTERSINK FLOOR CLEAN OUT COMBINATION SEWER FCU FAN COIL UNIT CONDENSER WATER SUPPLY COUNTERSUNK FIRE DAMPER CALCIUM SILICATE MASONRY UNIT FLOOR DRAIN COMBINATION STANDPIPE CONSTRUCTION JOINT FOUNDATION **FDNDR** FOUNDATION DRAIN

FLUTED CONCRETE MASONRY UNIT FIRE DEPARTMENT CONNECTION FDR FEEDER FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH FLOOR FILTER HOUSING FIRE HYDRAN FIRE HOSE CABINE FIG FIGURE FINISH FIXTURE FLOOR

IAQ INDOOR AIR QUALITY

INTERCOM

IN ACCORDANCE WITH

INFRARED BURNER

INSIDE DIAMETER

INSIDE FACE

INTAKE HOOD

INVERT ELEVATION

ISOLATED GROUND

ISOLATION JOINT

IN JOIST SPACE

INCLUDE (ING)

INDIRECT WASTE

JUNCTION BOX

JOINT FILLER BOARD

KEYED CONSTRUCTION JOINT

KITCHEN HOOD EXHAUST FAN

KITCHEN HOOD SUPPLY FAN

KILOVOLT AMPERES REACTIVE

LABORATORY COMPRESSED AIR

LEAVING AIR TEMPERATURE

KEENE'S CEMENT PLASTER

JUNCTION

KNOCKDOWN

KITCHEN

KNOCKOUT

KILOVOLT

LAVATORY

LABORATORY

LAMINATE(D)

POUND

LUMBER

POUNDS

LOADING

LINEAR

LOCKER

LINOLEUM

LIVE LOAD

MILLWORK

MIRROR

MOP SINK

MOUNTED

MOUNTING

METAL

MUL MULLION

MTWR

MTWS

MASONRY OPENING

MIRROR WITH SHELF

MAGNETIC STARTER

MERCURY VAPOR

MEDICAL VACUUM

MARKER WALL

NITROUS OXIDE

NOT APPLICABLE

NORTH

MEDIUM PRESSURE GAS

MEDIUM PRESSURE STEAM RETURN

MEDIUM PRESSURE STEAM SUPPLY

MEDIUM TEMP HOT WATER RETURN

MEDIUM TEMP HOT WATER SUPPLY

LINEAR FOOT (FEET)

LONG LEG HORIZONTAL

LENGTH (LONG)

KITCHEN SINK

KILOVOLT AMPERES

KILOWATT HOUR

KITCHEN HOOD

INSULATION

INTERIOR

IRON PIPE

JANITOR

ILLUMINATING ENGINEERING SOCIETY

INTERMEDIATE METAL CONDUIT

FIX FLASH FLASHING FLEX FLEXIBLE FLUOR FLUORESCEN' FLG FLOORING FULL LENGTH MIRROR FLM FACTORY MUTUAL FIRE MAIN FACILITIES MANAGEMENT CONTROL SYSTEM FLOW MEASURING EQUIPMENT FACE OF FINISH OPENING FACE OF CONCRETE FACE OF FINISH FACE OF MASONE FUEL OIL RETURN FACE OF STUD FUEL OIL SUPPLY FUEL OIL VENT FOW FACE OF WALL **FIREPROOFING** FIRE PUMP DISCHARGE

FEET PER MINUTE FIRE RESISTIVE FRAME FIBERGLASS REINFORCED PANE FLOOR SINK FLOW SWITCH FIRE/SMOKE DAMPER F.S.E.C. FOOD SERVICE FOUIPMENT CONTR FOLDING SHOWER SEAT FFFT (FOOT) FIN TUBE FLOW TRANSMITTER FOOTING FUT FUTURE

FIRE VALVE CABINET FWC FABRIC WALL COVERING GRILLE NATURAL GAS GAUGE GALLON GALVANIZED GRAB BAR GENERAL CONTRACTOR GRADE CLEAN OUT GCMU GLAZED CONCRETE MASONRY UNIT GARBAGE DISPOSAL GEN **GENERATOR** GROSS FLOOR AREA GROUND FAULT INTERRUPTER

GLASS FIBER REINFORCED CONCRET GLYCOL-WATER HEATING RETURN GLYCOL-WATER HEATING SUPPLY GALVANIZED IRON GLUE LAMINATED GLASS MASONRY UNI GROUND GOVERNMENT GALLONS PER HOUR GALLONS PER MINUTE GUARD RAII GRADE GLAVANIZED RIGID CONDUIT GLASS REINFORCED CONCRETE

GPM GLASS REINFORCED GYPSUM PLASTER GASOLINE GATE VALVE GREASE WASTE GYPSUM WALL BOARD GYPSUM HEIGHT HOOK ONE END H1E HOSE BIB HANDICAP HOLLOW CORE HANDICAP BENCH HCB HCR

HOT / CHILLED WATER RETURN HOT / CHILLED WATER SUPPLY HAND DRYER OR HAIR DRYER HARDBOARD HEADER HARDWOOD HARDWARE HOSE END VALVE HIGH INTENSITY DISCHARGE HOLLOW METAL HAND OFF AUTOMATIC HORIZONTAL HEAT PUMP HIGH PRESSURE HORSEPOWER

HDBD HDR HDWD HDWR HORIZ HIGH PRESSURE STEAM RETURN HIGH PRESSURE SODIUM HIGH PRESSURE STEAM SUPPLY HANDRAIL HOUR HEADSTUD HSTR HIGH STRENGTH HEIGHT

HEATING HTG HTR HEATER HTWR HIGH TEMP HOT WATER RETURN HIGH TEMP HOT WATER SUPPLY HUM HUMIDIFIER HEATING VENTILATING UNIT DOMESTIC HOT WATER DOMESTIC HOT WATER RECIRCULATING HWR LOW TEMP HOT WATER RETURN HWS LOW TEMP HOT WATER SUPPLY

HEATING VENTILATING AND AIR CONDITIONING HEAT EXCHANGER

LONG LEG VERTICAL LOCATION LONGITUDINA LIQUID OXYGEN LIQUEFIED PETROLEUM GAS LOW PRESSURE STEAM RETURN LOW PRESSURE STEAM SUPPLY LIVING ROOM LAWN SPRINKLER PLAS PLBG PLYWD LIFE SAFETY CODE LINED TRANSFER DUCT LIGHTING LOUVER POC LABORATORY VACUUM LONG WAY PPM LEAVING WATER TEMPERATURE THOUSAND MIXED AIR MEDICAL COMPRESSED AIR MACHINI MAG MAGNETIC MAINT MAINTENANCE MAN MANUAL MASONRY MATL MATERIAL MAKEUP AIR UNI MANUAL AIR VENT MAXIMUM MACHINE BOLT MARKER BOARD THOUSAND BTU PER HOUR MECHANICAL CONTRACTOR MEDICINE CABINET MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKERJ THOUSAND CIRCULAR MILLS MOTORIZED DAMPER MEDIUM DENSITY OVERLAY MECHANICAL MEMBRANE MEZZANINE MANUFACTURER MANUFACTURING MOTOR GENERATOR MANHOLE METAL HALIDE MOP HOLDER MINIMUM MISCELLANEOUS MOTORIZED LOUVER MOLDING MAIN LUGS ONLY

PIPE SUPPORT PROJECTION SCREEN POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH PRESSURE DROP PRESSURE SAFETY VALVE POTENTIAL TRANSFORMER PAPER TOWEL DISPENSER COMBINATION TOWEL DISPENSER/RECEPTACLE POLYVINYL CHLORIDE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY SOUND POWER LEVEL QUARRY TILE QTR RND QUARTER ROUND RISER RETURN AIR RADIATOR RAD or R RADIUS RUBBER BASE

NOISE CRITERIA

NURSE CALL

NEUTRAL

NUMBER

NOMINAL

NEUT

NOM

NTS

O&M

O to O

NORMALLY CLOSED

NOT IN CONTRACT

NORMALLY OPEN

NITROUS OXIDE

NOT TO SCALE

OUT TO OUT

OUTSIDE AIR

OBSCURE

ON CENTER

OUTSIDE DIAMETER

OVERHEAD POWER

OVERHEAD TELEPHONE

OVERFLOW STORM DRAIN

OPEN TO CEILING SPACE

OUTSIDE SCREW AND YOKE

OVERFLOW DRAIN

OUTSIDE FACE

OVERFLOW

OVERHEAD

PUBLIC ADDRESS

PARTICLE BOARD

PUSH BUTTON STATION

PUMPED CONDENSATE

PRESSURE DROP

PUMP DISCHARGE

PENTHOUSE

PERFORATED

PERPENDICULAR

PRESSURE GAGE

POINT OF INTERSECTION

PRESSURE INDICATOR

POST INDICATOR VALVE

POINT OF CONNECTION

PRESSURE REDUCING VALVE

PARTS PER MILLION

PREFABRICATED

PROJECTION

PLASTIC LAMINATE

POWER FACTOR

PLACE(S)

PI ASTER

PI UMBING

PI YWOOD

PANEL

PNFUMATIC

PORCELAIN

PI ATF

PAPER CUP DISPENSER

POUNDS PER CUBIC FOOT

PORCELAIN CERAMIC TILE

PLUMBING & DRAINAGE INSTITUTE

PORTABLE INSTRUMENT CONNECTION

PANIC BOLT

PARALLEL

PULL BOX

PUSH BUTTON

OXYGEN

PAINT

POLE

PAN B

PERF

PERP

PI AM

PNEU

PNL

PORC

PREFAB

OVERALL

NEUTRAL SENSOR

OPERATION AND MAINTENANCE

NATIONAL ELECTRIC CODE

NATIONAL ELECTRICAL MANUFACTURERS ASSN

OWNER FURNISHED CONTRACTOR INSTALLED

OWNER FURNISHED OWNER INSTALLED

PRESSURE/TEMPERATURE TEST PORT

REMOVE CONTROL REFLECTED CEILING PLAN REINFORCED CONCRETE PIPE RCU RECIPROCATING CHILLER JOINT ROOF DRAIN REFRIGERANT DISCHARGE RECP RECEPTACLE REFERENCE REFL REFR REFLECTED REFRIGERAN^{*} REFR REFRIGERATOR REG REINF REGISTER REINFORCEMEN REM REMOVABLE REQ(D) REQUIRE(D)

RESILIENT RESIL RETAINING (WALL) REVISIONS RETURN FAN RUBBER FLOOR RECESSED FLOOR MAT RELATIVE HUMIDITY

ROBE HOOK REFRIGERANT HOT GAS ROUGH IN AND CONNECT RISE IN JOIST SPACE REFRIGERANT LIQUID

ROUND ROUGH OPENING

TYPICAL UNIFORM BUILDING CODE UNIT COOLER UNDERGROUND

TELEVISION TACK WALL

UNDERGROUND ELECTRICAL UNDERGROUND TELEPHONE UNIT HEATER UNEX UNEXCAVATED UNFIN UNFINISHED UNO

REVOLUTIONS PER MINUTE

REFRIGERANT SUCTION

SANITARY SEWER

SPRINKLER LINE

SUPPLY AIR

SOLID CORE

SCHEDULE

SCUTTLE

SHOCK ABSORBER

SANITARY WASTE

SHOWER CURTAIN

SPECIAL COATING

SEAT COVER DISPENSE

SHOWER CURTAIN ROD

STRUCTURAL CLAY TILE

SOFT COLD WATER

SOAP DISPENSER

SMOKE DETECTOR

STEAM EXHAUST VENT

SPRINKLER FLOW ALARM

STRUCTURAL FACING UNIT

SECURITY HOLLOW METAL

SANITARY NAPKIN DISPOSA

SANITARY NAPKIN VENDOR

SOUND PRESSURE LEVEL

SOFT HOT WATER

SPLIT-FACED CONCRETE MASONRY UNIT

SMOKE DAMPER

STORM DRAIN

SECONDARY

SECRETARY

SQUARE FOOT

SUPPLY FAN

SHEATHING

SHORT LEG

SHEET METAL

STAND PIPE

SPRINKLER

SPL BLK SPLASH BLOCK

STAG'D

STGR

STOR

SQUARE

STATIC PRESSURE

SOLIDS SEPARATOR

STAINLESS STEEL

SERVICE SINK

SOLID SURFACE

STORM SEWER

STAGGERED

STANDARD

STRINGER

STORAGE

SUBSTATION

SUBFLOOR

SURFACE

SUSPENDED

SHEET VINYL

SHORT WAY

SOLENOID VALVE

SWITCH BOARD

SYMMETRICAL

TEMPERED

THERMOSTAT

TOP & BOTTOM

TREAD TRANSFER AIR

TERMINAL BOX

TOWEL BAR

TACK BOARD

TIME CLOCK

TRANSFER DUCT

TRENCH DRAIN

TELEPHONE

TERRAZZO

TEXTURED

THRESHOLD

TOWEL HOOK

THICK(NESS)

TILT MÌRROR UNIT

TOP OF CONCRETE

TRAP PRIMER VALVE

TEMPERATURE SENSOR

TOTAL STATIC PRESSURE

TOILET TISSUE DISPENSER

TEMPERATURE TRANSMITTER

TOP OF PAVING

TOP OF STEEL

TOP OF WALL

TRANSVERSE

TURE STEEL

TERRAZZO TILE

TREAD

THERMOSTATIC MIXING VALVE

TOGGLE

TERR TEXT

TRANS

TEMPERATURE

TANGENT

TONGUE & GROOVE

TEST AND BALANCE

TEMPERATURE CONTROL

TOTAL DYNAMIC HEAD

TEMPERED - TEMPORARY

TEMPERATURE CONTROL CONTRACTOR

STEEL

STORM SHELTER AREA

SOUND TRANSMISSION CLASS

STRUCTURAL - STRUCTURE

STEAM WORKING PORESSURE

SINGLE TAPERED END

SPECIFICATIONS

SPRINKLER MAI

SEALANT

SECOND

SECTION

SENSIBLE

SHEATH

SHOWER CURTAIN HOOKS

SOAP DISH

RAIN WATER LEADERS SENSOR

REDUCED PRESSURE BACKFLOW PREVENTER

UNDERWRITERS LABORATORIES UNLESS NOTED OTHERWISE URINAL UNDERGROUND RESIDENTIAL DISTRIBUTION UTILITY SHELF UTILITY UNIT VENTILATOR VENT VOLT VACUUM VALVE VACUUM VARIABLE AIR VOLUME VAPOR BARRIER VINYL BASE

VENT BELOW FLOOR VENTED COVE BASE VITRIFIED CLAY PIPE VINYL COMPOSITION TILE VOLUME DAMPER - MANUAL VENTILATION VENTILATOR **VERT** VERTICAL **VEST** VESTIBULE VINYL FLOOR VOLTMETER VOLUME VACUUM PUMP VSMC VINYL TILE

VARIABLE FREQUENCY DRIVE VENEER PLASTER VARIABLE SPEED MOTOR CONTROLLER VENT THROUGH ROOF VINYL WALLCOVERING WATER SERVICE WIDE; WIDTH WATT WIDE FLANGE ITHOUT WET BULB WALL COVERING WATER COLUMN WATER CLOSET

WATER COOLED CONDENSER WATER CLOSET/LAVATORY COMBINATION WALL CLEAN OUT WOOD WINDOW WASH FOUNTAIN WALL HYDRANT WATER FLOW MEASURING DEVICE WFMD WATER HEATER WATT HOUR METER WROUGHT IRON

WATER LOOP RETUR WATER LOOP SUPPLY WATER MOTOR GONG WNSCT WAINSCOT WEATHERPROOF WHIRLPOOL BATH WATERPROOF WATERPROOFING WATER RESISTANT WASTE RECEPTACLE WET STAND PIPE WEIGHT WARM WHITE

WELDED WIRE FABRIC XMTR TRANSMITTER

YARD HYDRANT IMPEDANCE ZONE CONTROL VALVE ZONE VALVE BOX

THAT IS NUMBER

THE FOLLOWING ABBREVIATIONS ARE USED WITH GLAZING:

CLEAR FLOAT GLASS CLEAR INSULATING GLASS CLEAR TEMPERED FLOAT GLASS CLEAR TEMPERED INSULATING GLASS LAMINATED GLASS PATTERN GLASS PATTERN INSULATING GLASS SPANDREL GLASS TINTED FLOAT GLASS TINTED INSULATING GLASS

TINTED TEMPERED FLOAT GLASS

POLISHED WIRE GLASS

TINTED TEMPERED INSULATING GLASS

GENERAL NOTES

- 1. GENERAL NOTES APPLY TO ALL DRAWINGS
- 2. CONTRACTOR SHALL FURNISH AND INSTALL 2" X 10" CONTINUOUS WOOD BLOCKING IN STUD PARTITIONS FOR ANCHORAGE OF WALL ATTACHED ITEMS, INCLUDING BUT NOT LIMITED TO, WALL MOUNTED FIXTURES.
- 3. CONTRACTOR SHALL COORDINATE ALL MECHANICAL CHASE SIZES WITH ALL
- 4. WALL OPENINGS FOR FIRE DAMPERS SHALL BE FRAMED PER THE FIRE DAMPER MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH GENERAL
- 5. CONTRACTOR SHALL COORDINATE SIZES AND LOCATIONS OF 4" HIGH CONCRETE HOUSEKEEPING PADS WITH THE MECHANICAL EQUIPMENT SUPPLIERS.
- 6. MECHANICAL AND PLUMBING PLANS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPES, DUCTWORK, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT NECESSARII Y INDICATE EVERY REQUIRED OFFSET FITTING AND EXISTING CONDITION. LOCATION OF THESE ITEMS MAY BE ADJUSTED CONDITIONAL UPON THE SATISFACTORY COMPLIANCE WITH ALL OTHER REQUIREMENTS (SEE NOTES 10 AND 15).
- 7. SEE SHEET CP1.1 AND CP1.1 ALT FOR LOCATIONS OF FIRE RATED WALLS WHERE APPLICABLE.
- ALL WALL PENETRATIONS AT RATED WALL LOCATIONS REQUIRED FOR PIPES, CONDUIT, DUCTWORK, ETC. SHALL BE SEALED TO STOP PASSAGE OF FIRE AND / OR SMOKE WITH FIRE SAFING AND APPROVED FIRESTOPPING SEALANT PER DETAILS 55/A10.2 AND 56/A10.2 BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL COORDINATE ALL WALL PENETRATIONS FOR CORRECT
- 9. THE CONTRACTOR SHALL COORDINATE CUT-OUTS FOR CASEWORK. MILLWORK, OR OTHER EQUIPMENT AS REQUIRED.

- 10. ALL ASPECTS OF THE WORK AND ITEMS NOT SPECIFICALLY MENTIONED, BUT WHICH ARE NECESSARY TO MAKE A COMPLETE WORKING NSTALLATION, SHALL BE INCLUDED, AND INDICATED IN THE CONTRACTORS
- 11. NO ASBESTOS OR PCB CONTAINING MATERIALS SHALL BE USED ON THIS
- THE CONTRACTOR IS RESPONSIBLE FOR PROPER REMOVAL AND DISPOSAL OF ALL DEBRIS GENERATED BY CONSTRUCTION OF THIS PROJECT. THE REMOVAL AND DISPOSAL OF ALL CONSTRUCTION DEBRIS SHALL BE IN FULL COMPLIANCE WITH ALL FEDERAL. STATE AND LOCAL REGULATIONS. THE

PREMISES SHALL BE KEPT CLEAN AND FREE FROM ALL WASTE MATERIALS.

- 13. CONTRACTOR SHALL PROTECT NEW CONSTRUCTION FROM DAMAGE BY ALL TRADES, ALL SUCH DAMAGE CAUSED BY THE CONTRACTOR DURING THE COURSE OF THIS WORK SHALL BE REPAIRED OR REPLACED AT THE CONTRACTORS EXPENSE.
- 14. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS AND FIELD CONDITIONS PRIOR TO ORDERING OR INSTALLING MATERIALS OR EQUIPMENT
- 15. ALL MECHANICAL AND PLUMBING SYSTEMS SHALL BE CONCEALED WITHIN WALLS, UNDERGROUND, ABOVE CEILINGS OR IN A/E APPROVED UTILITY SPACES IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE ON THI DRAWINGS, EXPOSED ITEMS MUST BE LOCATED IN AREAS APPROVED BY THE A/E. EXPOSED ITEMS SHALL BE INSTALLED AND FINISHED TO PROVIDE MINIMAL VISUAL IMPACT. ALL EXPOSED ITEMS ARE TO BE PAINTED TO MATCH THE ADJACENT SURFACES UNLESS SCHEDULED FOR AN ACCENT
- 16. FLOOR SPOT ELEVATIONS ARE SHOWN THUS: 0'-0"
- 17. ARCHITECTURAL FINISH FLOOR ELEVATIONS 0'-0" EQUALS ACTUAL SITE REFERENCE OF FINISH FLOOR.

DEFERRED SUBMITTAL

1. PIPING AND EQUIPMENT SUPPORTS & ATTACHMENTS 2. FIRE PROTECTION DESIGN.



EXPIRES: 12/31/2016

Mar 3 2016

ATIONS

BB

MB

CHANICAL

MP0

'ATION

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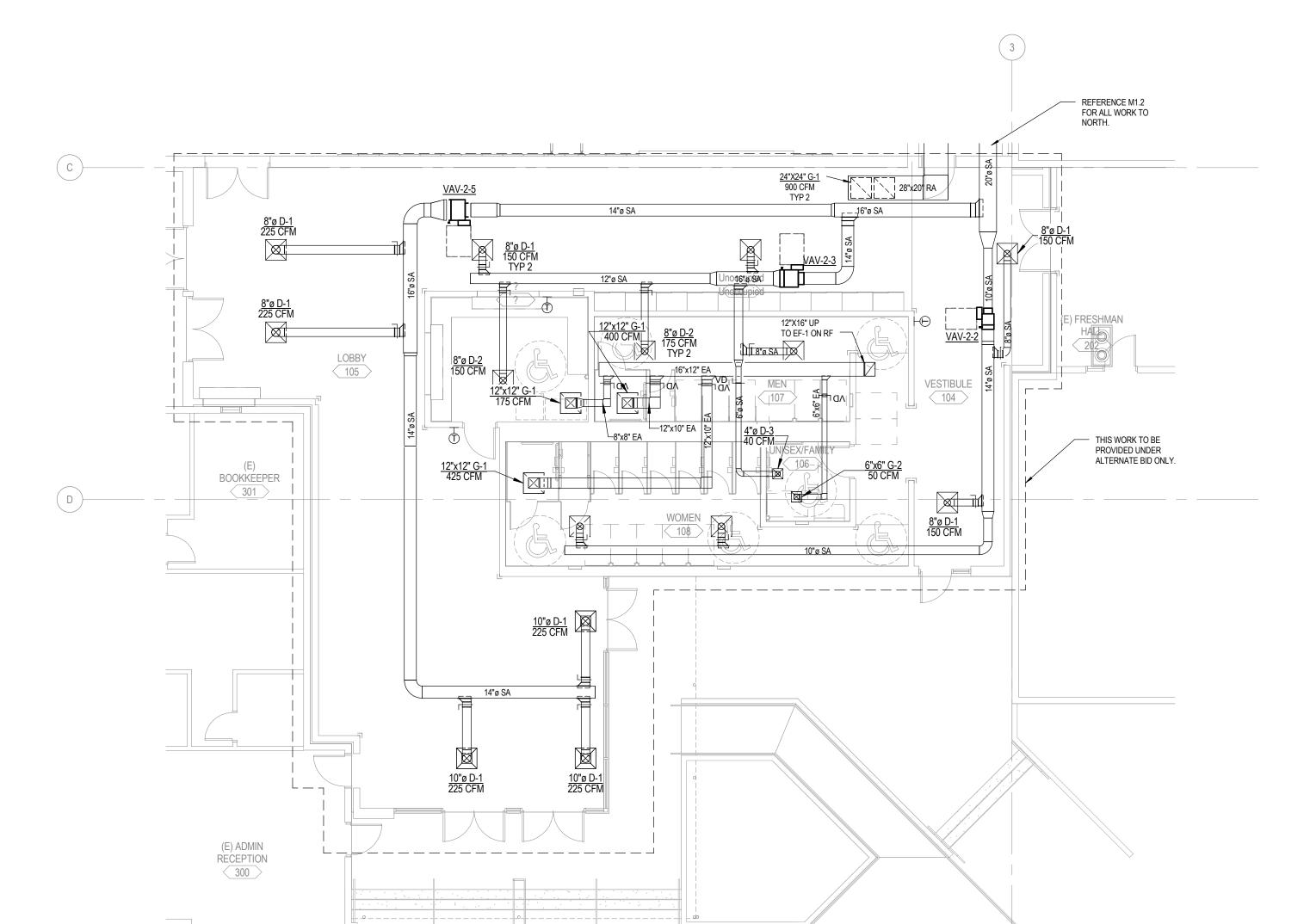
MECHANICAL SYMBOLS AND ABBREVIATIONS

ELMIRA HIGH SCHOOL

ELMIRA, OR 97437

MP0.174-13107-40
33/3/2016

LR Group tecture Planning Interiors



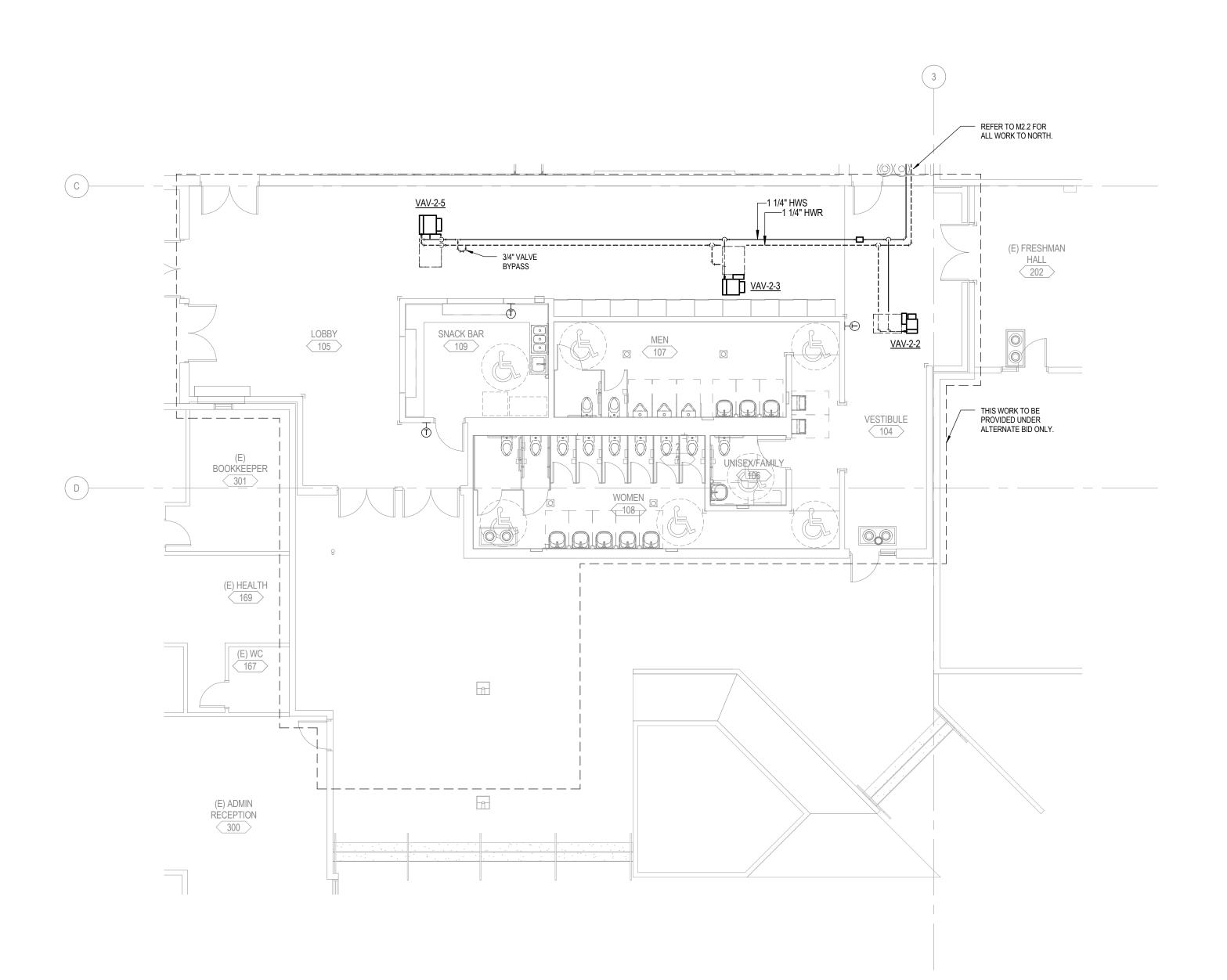
HVAC FLOOR PLAN - AREA B ALTERNATE BID

KEY PLAN

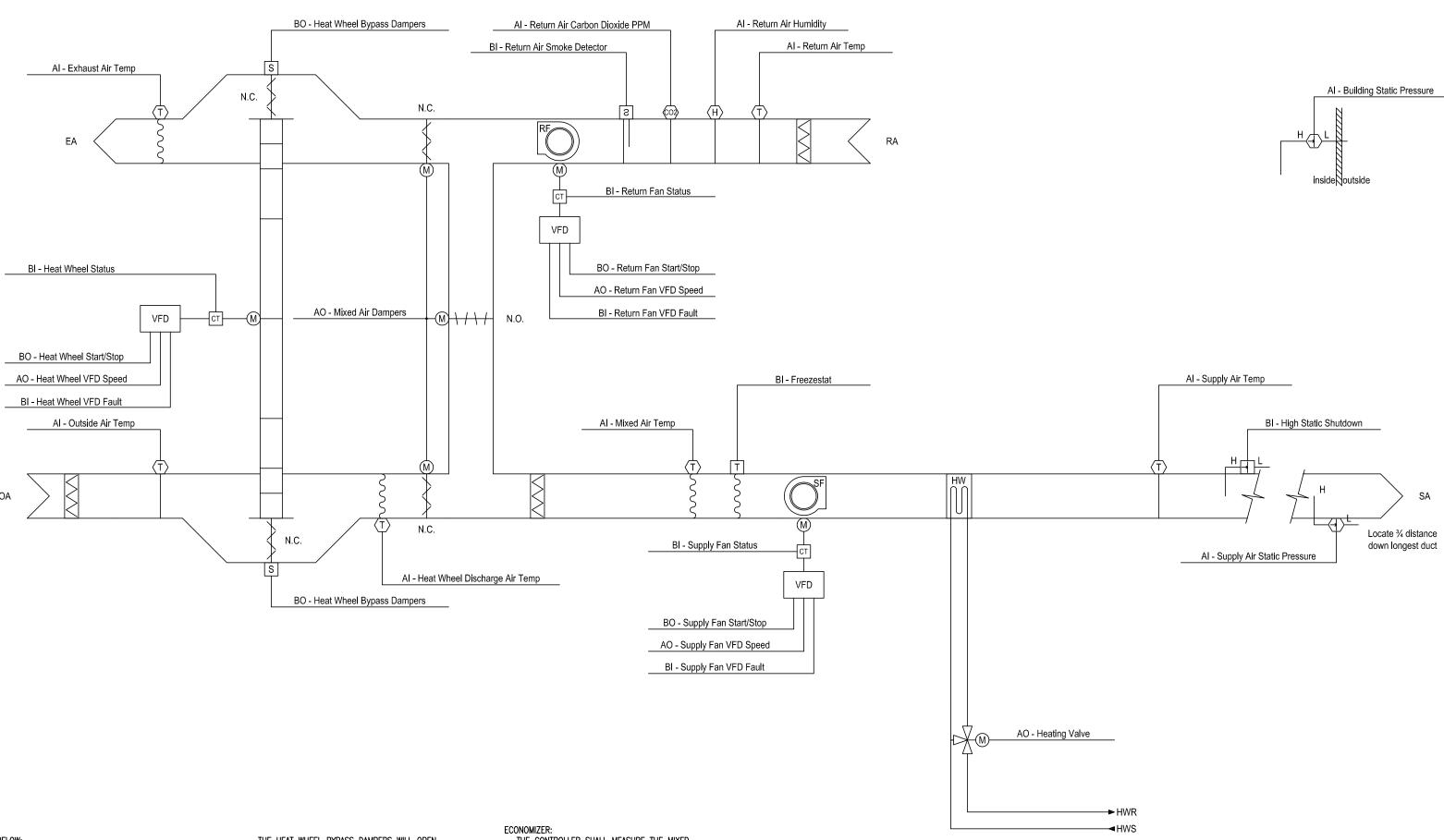
BID/PERMIT

MECHANICAL |
ELMIRA HIG

M2.2 74-13107-40 03/3/ 2016 REVISIONS



KEY PLAN



VARIABLE AIR VOLUME - AHU-2 RUN CONDITIONS - SCHEDULED: THE UNIT SHALL RUN BASED UPON AN OPERATOR ADJUSTABLE SCHEDULE. FREEZE PROTECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM

UPON RECEIVING A FREEZESTAT STATUS. HIGH STATIC SHUTDOWN: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN HIGH STATIC SHUTDOWN SIGNAL. RETURN AIR SMOKE DETECTION: THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM

UPON RECEIVING A RETURN AIR SMOKE DETECTOR

AHU OPTIMAL START: THE UNIT SHALL START PRIOR TO SCHEDULED OCCUPANCY BASED ON THE TIME NECESSARY FOR THE ZONES TO REACH THEIR OCCUPIED SETPOINTS. THE START TIME SHALL AUTOMATICALLY ADJUST BASED ON CHANGES IN OUTSIDE AIR TEMPERATURE AND ZONE

SUPPLY FAN: THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

ALARMS SHALL BE PROVIDED AS FOLLOWS: SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.

 SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.). SUPPLY AIR DUCT STATIC PRESSURE CONTROL: THE CONTROLLER SHALL MEASURE DUCT STATIC PRESSURE AND MODULATE THE SUPPLY FAN VFD SPEED TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT. THE SPEED SHALL NOT DROP BELOW 30% (ADJ.). THE

STATIC PRESSURE SETPOINT SHALL BE RESET BASED ON ZONE COOLING REQUIREMENTS. THE INITIAL DUCT STATIC PRESSURE SETPOINT SHALL BE 1.5IN H2O (ADJ.). AS COOLING DEMAND INCREÁSES, THE SETPOINT

SHALL INCREMENTALLY RESET UP TO A MAXIMUM AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM

OF 1.3IN H2O (ADJ.) . ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH SUPPLY AIR STATIC PRESSURE: IF THE

SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT. LOW SUPPLY AIR STATIC PRESSURE: IF THE SUPPLY AIR STATIC PRESSURE IS 25% (ADJ.) LESS

THAN SETPOINT.

SUPPLY FAN VFD FAULT.

THE RETURN FAN VFD SHALL MODULATE IN UNISON WITH THE SUPPLY FAN VFD. RETURN AIRFLOW SETPOINT SHALL BE 100% (ADJ.) OF THE SUPPLY AIRFLOW MINUS 1000FT3/MIN (ADJ.). THE RETURN FAN VFD SPEED SHALL NOT DROP BELOW 20% (ADJ.). ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HIGH RETURN AIRFLOW: IF THE RETURN AIRFLOW IS AN ADJUSTABLE PERCENTAGE GREATER THAN · LOW RETURN AIRFLOW: IF THE RETURN AIRFLOW IS

AN ADJUSTABLE PERCENTAGE LESS THAN SETPOINT. HEAT RECOVERY WHEEL — VARIABLE SPEED THE CONTROLLER SHALL MODULATE THE HEAT RECOVERY WHEEL FOR ENERGY RECOVERY AS FOLLOWS. COOLING RECOVERY MODE:

THE CONTROLLER SHALL MEASURE THE HEAT WHEEL DISCHARGE AIR TEMPERATURE AND MODULATE THE HEAT WHEEL SPEED TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE HEAT WHEEL SHALL RUN FOR COOL RECOVERY WHENEVER: • THE UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.)

OR MORE BELOW THE OUTSIDE AIR TEMPERATURE. AND THE UNIT IS IN A COOLING MODE. AND THE ECONOMIZER (IF PRESENT) IS OFF. AND THE SUPPLY FAN IS ON.

HEATING RECOVERY MODE: THE CONTROLLER SHALL MEASURE THE HEAT WHEEL DISCHARGE AIR TEMPERATURE AND MODULATE THE HEAT WHEEL SPEED TO MAINTAIN A SETPOINT 2°F (ADJ.) GREATER THAN THE UNIT SUPPLY AIR TEMPERATURE SETPOINT. THE HEAT WHEEL SHALL RUN FOR HEAT RECOVERY WHENEVER:

> THE UNIT RETURN AIR TEMPERATURE IS 5°F (ADJ.) OR MORE ABOVE THE OUTSIDE AIR TEMPERATURE. AND THE UNIT IS IN A HEATING MODE.

AND THE ECONOMIZER (IF PRESENT) IS OFF. AND THE SUPPLY FAN IS ON.

PERIODIC SELF-CLEANING: THE HEAT WHEEL SHALL RUN AT 5% SPEED (ADJ.) FOR 10SEC (ADJ.) EVERY 4HR (ADJ.) THE UNIT RUNS. FROST PROTECTION: THE HEAT WHEEL SHALL RUN AT 5% SPEED (ADJ.)

WHENEVER: OUTSIDE AIR TEMPERATURE DROPS BELOW OR THE EXHAUST AIR TEMPERATURE DROPS BELOW 20°F (ADJ.).

THE HEAT WHEEL BYPASS DAMPERS WILL OPEN WHENEVER THE HEAT WHEEL IS DISABLED.

THE HEAT WHEEL BYPASS DAMPERS WILL OPEN WHENEVER THE HEAT WHEEL IS DISABLED.

ALARMS SHALL BE PROVIDED AS FOLLOWS:
• HEAT WHEEL ROTATION FAILURE: COMMANDED ON, BUT THE STATUS IS OFF. HEAT WHEEL IN HAND: COMMANDED OFF, BUT THE STATUS IS ON. HEAT WHEEL RUNTIME EXCEEDED: STATUS RUNTIME

EXCEEDS A USER DEFINABLE LIMIT (ADJ.). HEAT WHEEL VFD FAULT SUPPLY AIR TEMPERATURE SETPOINT - OPTIMIZED: THE CONTROLLER SHALL MONITOR THE SUPPLY TEMPERATURE SETPOINT RESET BASED ON ZONE

COOLING AND HEATING REQUIREMENTS THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR COOLING BASED ON ZONE COOLING

REQUIREMENTS AS FOLLOWS: THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 55°F (ADJ.). AS COOLING DEMAND INCREASES, THE SETPOINT

SHALL INCREMENTALLY RESET DOWN TO A MINIMUM OF 53°F (ADJ.). AS COOLING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM OF 72°F (ADJ.) .

IF MORE ZONES NEED HEATING THAN COOLING, THEN THE SUPPLY AIR TEMPERATURE SETPOINT SHALL BE RESET FOR HEATING AS FOLLOWS: THE INITIAL SUPPLY AIR TEMPERATURE SETPOINT SHALL BE 82°F (ADJ.).

 AS HEATING DEMAND INCREASES, THE SETPOINT SHALL INCREMENTALLY RESET UP TO A MAXIMUM AS HEATING DEMAND DECREASES, THE SETPOINT SHALL INCREMENTALLY RESET DOWN TO A MINIMUM

OF 72°F (ADJ.).

HIGH SUPPLY AIR TEMPERATURE ALARM: THE CONTROLLER SHALL ALARM IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). HEATING COIL VALVE: THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND MODULATE THE HEATING COIL VALVE

TO MAINTAIN ITS HEATING SETPOINT. THE HEATING SHALL BE ENABLED WHENEVER: OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F

 AND THE SUPPLY FAN STATUS IS ON. AND THE COOLING (IF PRESENT) IS NOT ACTIVE. THE HEATING COIL VALVE SHALL OPEN WHENEVER: SUPPLY AIR TEMPERATURE DROPS FROM 40°F TO 35°F (ADJ.).

 OR THE FREEZESTAT (IF PRESENT) IS ON. ALARMS SHALL BE PROVIDED AS FOLLOWS: LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS 5°F (ADJ.) LESS THAN SETPOINT.

THE CONTROLLER SHALL MEASURE THE MIXED AIR TEMPERATURE AND MODULATE THE ECONOMIZER DAMPERS IN SEQUENCE TO MAINTAIN A SETPOINT 2°F (ADJ.) LESS THAN THE SUPPLY AIR TEMPERATURE SETPOINT. THE OUTSIDE AIR DAMPERS SHALL MAINTAIN A MINIMUM ADJUSTABLE POSITION OF 20% (ADJ.) OPEN WHENEVER OCCUPIED.

THE ECONOMIZER SHALL BE ENABLED WHENEVER:

• OUTSIDE AIR TEMPERATURE IS LESS THAN

65°F (ADJ.).
• AND THE OUTSIDE AIR TEMPERATURE IS LESS THAN THE RETURN AIR TEMPERATURE. AND THE SUPPLY FAN STATUS IS ON.

THE ECONOMIZER SHALL CLOSE WHENEVER: MIXED AIR TEMPERATURE DROPS FROM 40°F TO

35°F (ADJ.).

 OR THE FREEZESTAT (IF PRESENT) IS ON. OR ON LOSS OF SUPPLY FAN STATUS. THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL CLOSE AND THE RETURN AIR DAMPER SHALL OPEN WHEN THE UNIT IS OFF. IF OPTIMAL START UP IS AVAILABLE THE MIXED AIR DAMPER SHALL OPERATE AS DESCRIBED IN THE OCCUPIED MODE EXCEPT THAT THE OUTSIDE

AIR DAMPER SHALL MODULATE TO FULLY CLOSED. MINIMUM OUTSIDE AIR VENTILATION — CARBON DIOXIDE (CO2) CONTROL: WHEN IN THE OCCUPIED MODE, THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 LEVELS AND MODULATE THE OUTSIDE AIR DAMPERS OPEN ON RISING CO2 CONCENTRATIONS, OVERRIDING NORMAL DAMPER OPERATION TO MAINTAIN A CO2 SETPOINT OF 750 PPM (ADJ.).

MIXED AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE MIXED AIR TEMPERATURE AND USE AS REQUIRED FOR ECONOMIZER CONTROL (IF PRESENT) OR PREHEATING CONTROL (IF PRESENT). ALARMS SHALL BE PROVIDED AS FOLLOWS:

 HIGH MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). LOW MIXED AIR TEMP: IF THE MIXED AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

RETURN AIR CARBON DIOXIDE (CO2) CONCENTRATION MONITORING: THE CONTROLLER SHALL MEASURE THE RETURN AIR CO2 LEVELS. ALARMS SHALL BE PROVIDED AS FOLLOWS:

HIGH RETURN AIR CARBON

CONCENTRATION IS GREATER THAN 1000PPM (ADJ.) WHEN IN THE UNIT IS RUNNING. RETURN AIR TEMPERATURE: THE CONTROLLER SHALL MONITOR THE RETURN AIR TEMPERATURE AND USE AS REQUIRED FOR SETPOINT CONTROL OR ECONOMIZER CONTROL (IF PRESENT).

DIOXIDE CONCENTRATION: IF THE RETURN AIR CO2

ALARMS SHALL BE PROVIDED AS FOLLOWS: HIGH RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS GREATER THAN 90°F (ADJ.). LOW RETURN AIR TEMP: IF THE RETURN AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE. ALARMS SHALL BE PROVIDED AS FOLLOWS:

• HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR

TEMPERATURE IS GREATER THAN 120°F (ADJ.).

LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR

TEMPERATURE IS LESS THAN 45°F (ADJ.).

SINGLE ZONE VAV AHU SEQUENCE OF OPERATIONS

NTS



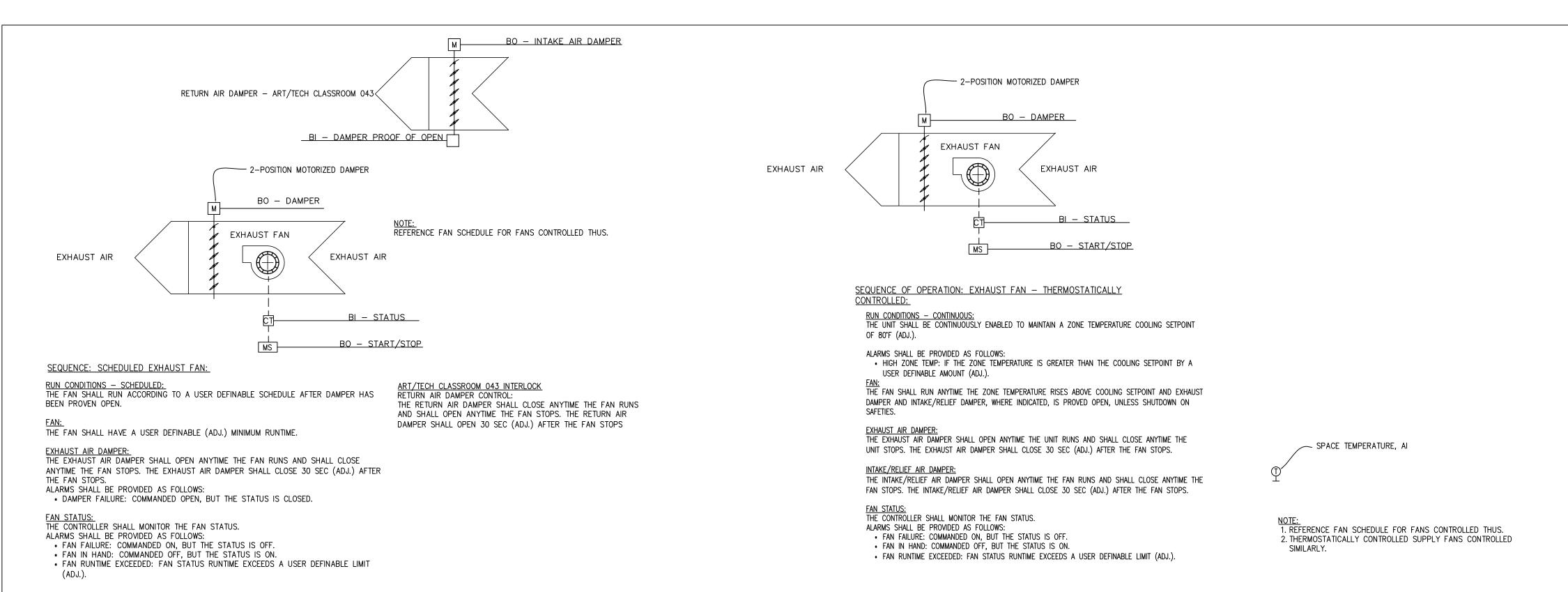
24936 FIR GROVE LANE ELMIRA, OR 97437

HIGH SCHOOL

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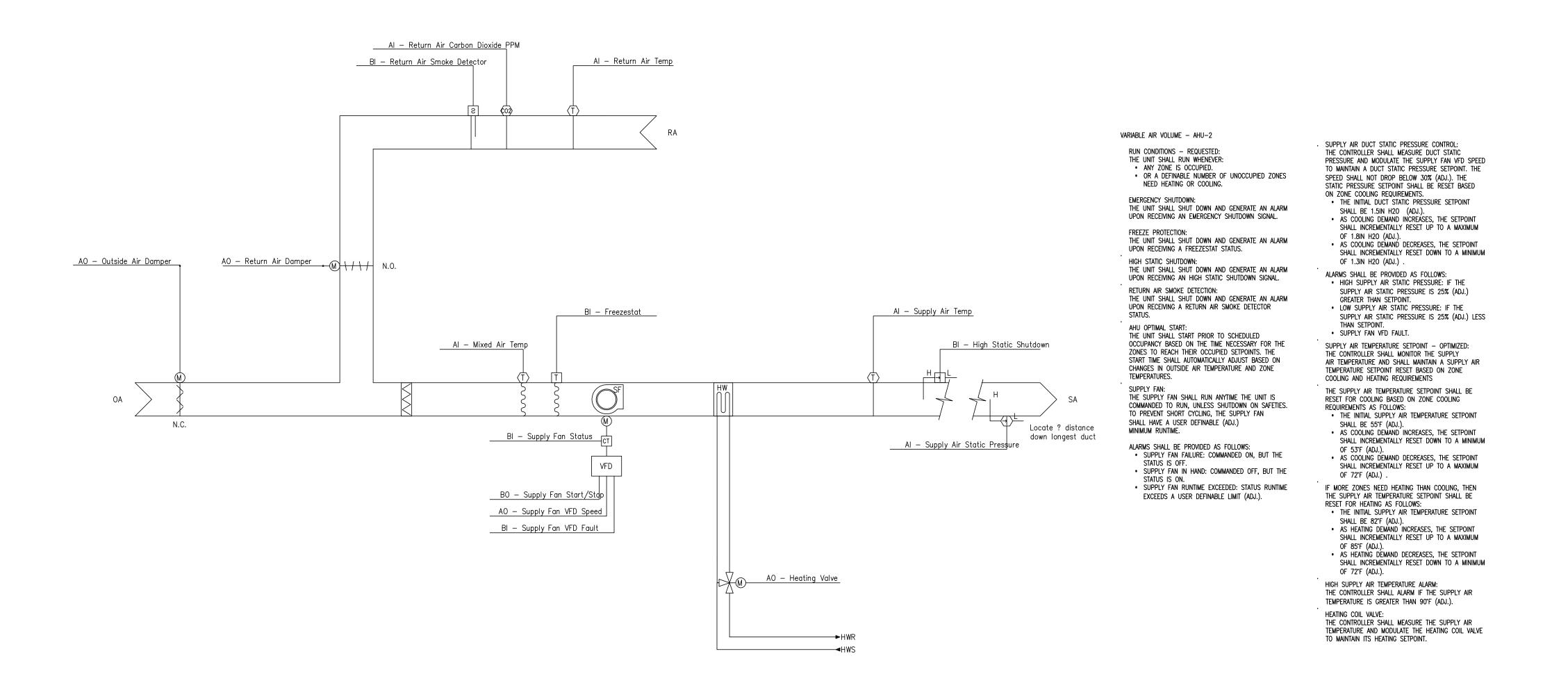
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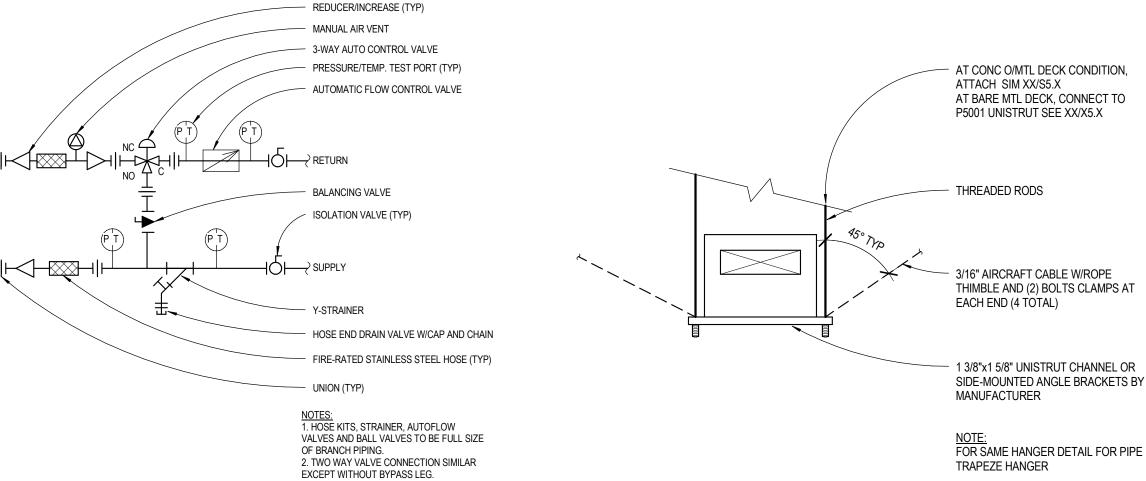


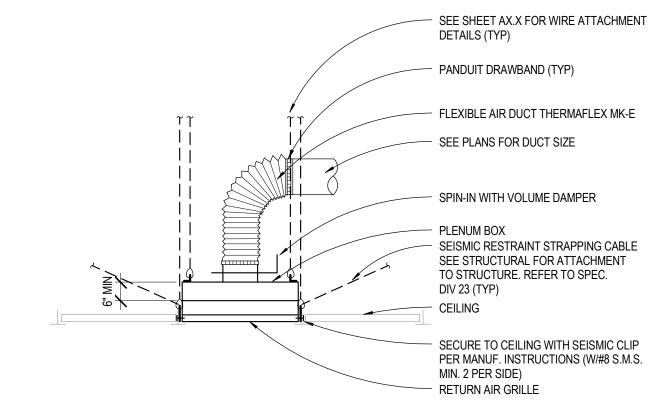


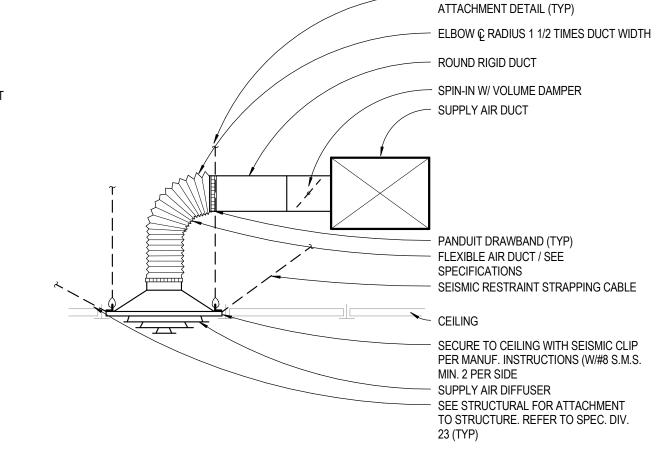


THERMOSTATICALLY CONTROLLED EXHAUST FAN SEQUENCE OF OPERATIONS









SEE SHEET AX.X FOR WIRE

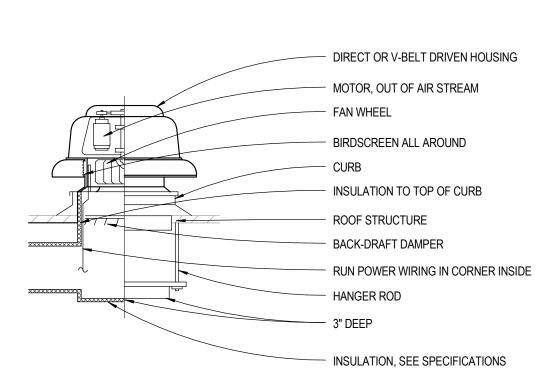


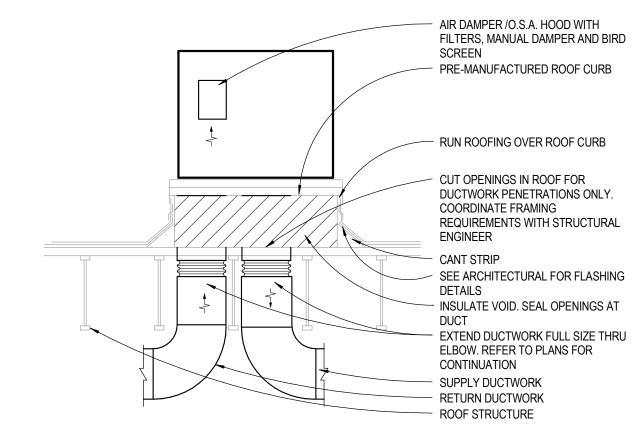
COIL

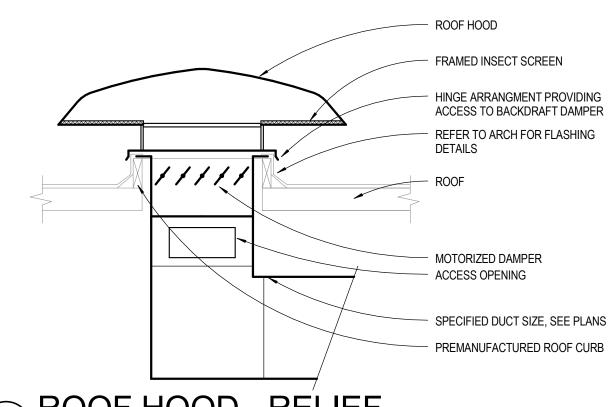


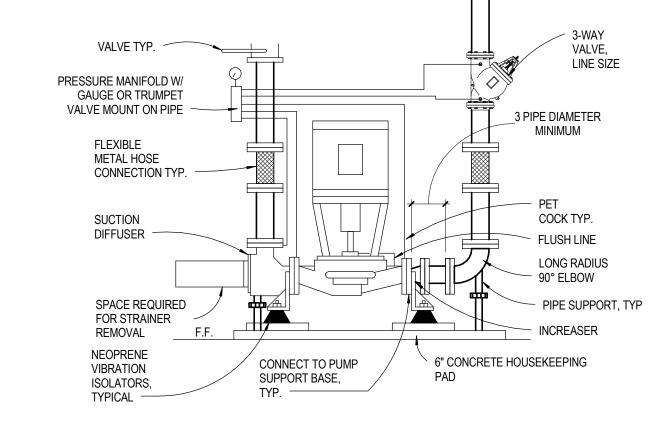
RETURN AIR GRILLE M5.1 NO SCALE











ROOF TOP EXHAUST FAN

M5.1 NO SCALE

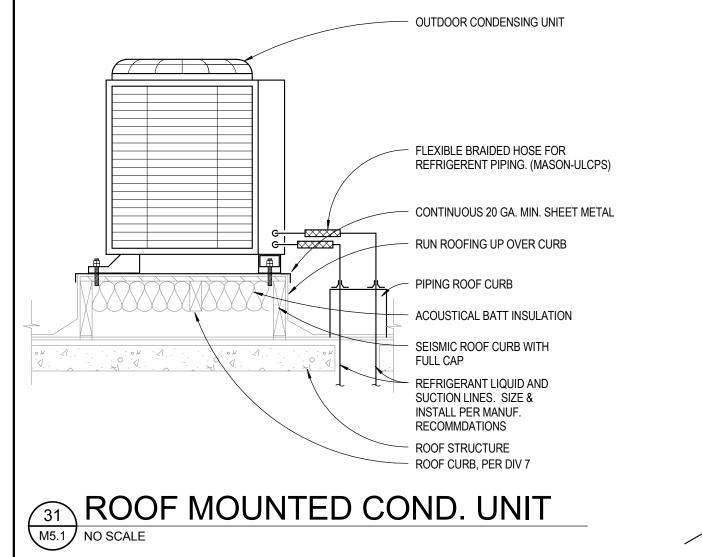


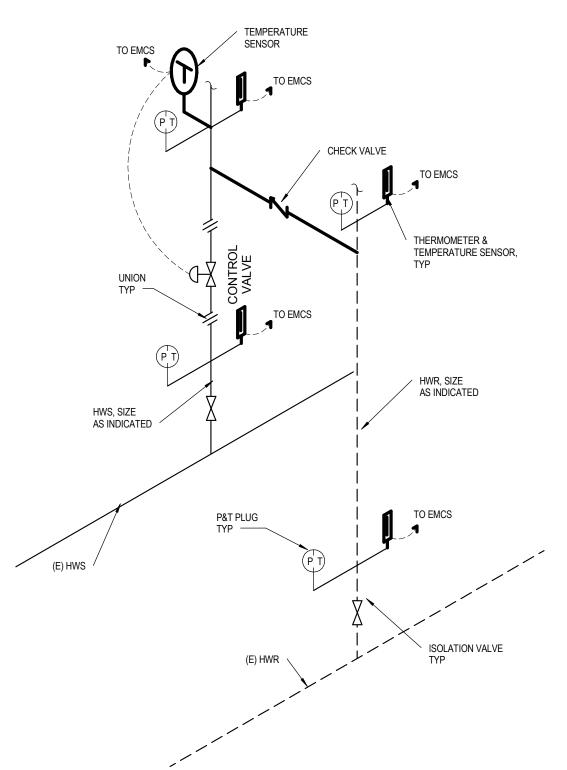
ROOF HOOD - RELIEF

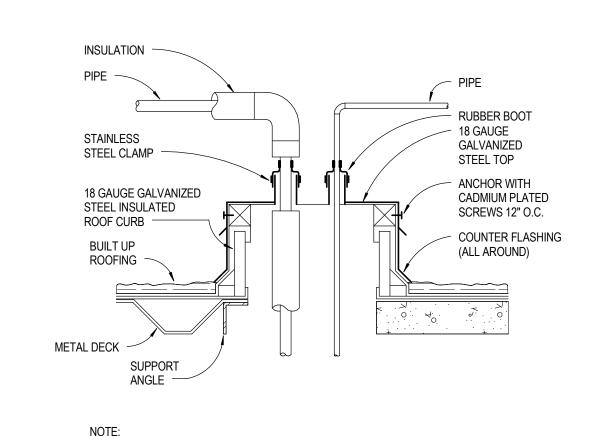
NO SCALE

VERTICAL IN-LINE PUMP DETAIL

M5.1 NO SCALE







1. REFER TO DRAWINGS FOR QUANITIY AND SIZE OF PIPES TO RUN THRU ROOF



NOTES

BASIS OF DESIGN

TITUS OMNI (24x24)

TITUS OMNI (24x24) TITUS OMNI (12x12)

SEIHO NT-20

301RL

301RS

301RS 301RL 301RL

301RL

.FAN SCHEDULE. EXTERNAL S.P. FAN SOUND MOTORIZED **BASIS OF DESIGN** DIMINESIONS DRIVE HP CFM (IN WG) RPM (SONES) DAMPER CONTROL WEIGHT (INXINXIN) TYPE (WATTS) FLA V PH (LOREN COOK) NOTES **SERVES** LOCATION **FAN TYPE** TOILET ROOMS ROOF CENTRIFUGAL SCHEDULE 59 28ØX24 1/6 4.8 120 G-143-13 T-STAT 12X16X14 DIRECT 1 PANASONIC FV-11VQ5 EQUIP ROOM ROOM

NOTES: 1. 18" HIGH CURB W/ DPR TRAY, ALUM BIRDSCREEN, FACTORY WIRED SPEED CONTROLLER. 2. SOLID STATE SPEED CONTROLLER FACTORY WIRED, RECTANGAL WALL CAP, STAINLESS STEEL GRILLE, SPRING ISOLATION KIT, INTERLOCK MTZ DPR W/ FAN

											.AIR	R HAI	NDL	ING UN	NITS SCH	EDULE.													
				S	UPPLY F	AN				E	XHAUST FAN										HEAT	ECOVER	Y HEATI	NG MODI	E	ELECTRICA	L		
					LOWER																								
		MAX			LIMIT	1			AIR									WATER	COIL	OA			EA	l l				DIM	
	II			UPPER LIMIT		ESP (IN				ESP (IN		FAN	1 1		EAT HEATING				•	EAT L	II.				EA APD			'	
MARK D	DESIGN	CFM	CFM	MIN OA	OAOA	WG)	FAN TYPE	CLASS HP	(CFM)	WG)	FAN TYPE	CLASS	HP	MBH	COIL	EWT	GPM	DROP (FZ)	WG)	(°F) (°	F) CFN	(IN WG)	(°F)	°F) CFN	(IN WG)	MCA MOCI	(LBS)	(inch)	NOTES
						i .																							
AHU-1 AAG	AON RN026	10000	3000	2500	1900	0.75	PLENUM B1	II 7.5	4100	0.25	B1	2	2	351	66.2	180	30	2.40	0.10	20 6	0.8 4100	0.38	70	29.2 4100	0.38	18 25	4641	204X100X87	1,2

1. HEATING COIL RATED AT 100% SUPPLY AIR FLOW RATE 2. VFD FACTORY INSTALLED BY AHU MFGR.

DUCTWORK INSULATION AND JACKETING SCHEDULE - SECTION	230713																					
	INSULATION TYPE	NO INSULATION	1/2" INTERNAL LINER	1", 1.5 # INTERNAL LINER	2" INTERNAL LINER	FIBERGLASS BLANKET, R-6 Min. (INSTALLED VALUE)	FIBERGLASS BLANKET, R-8 Min. (INSTALLED VALUE)	BLANKET, 2 HOUR FIRE RATED	FIBERGLASS BOARD, R-6 Min. (INSTALLED VALUE)	FIBERGLASS BOARD, R-8 Min. (INSTALLED VALUE)	JACKET TYPE	NO JACKET	1" INSULATED DOUBLE WALL DUCT	INSULATED DOUBLE WALL DUCT	FOIL - INTEGRAL TO INSULATION	SELF ADHESIVE OUTDOOR JACKET PER SPECS	EMBOSSED ALUMINIUM JACKET PER SPECS	VAPOR BARRIER		S		
DESCRIPTION		ž	7,	<u></u> ₩	2"	H	正	2"	됴	됴		ž		2	Э.	S	Ш		<u>Q</u>	YES	NOT	 ES
																					.,,,,	
UPPLY AIR (CONDITIONED HEATING OR COOLING AIR)																						
INTERIOR (ROUND) - CONCEALED						X									X					X	4	
INTERIOR (RECTANGULAR) - CONCEALED						Х									Х					Х	1, 4	4
INTERIOR (ROUND) - EXPOSED													Х						Х			
INTERIOR (RECTANGULAR) - EXPOSED - UNOCCUPIED AREAS						Х									Х					Х	1, 4	
INTERIOR (RECTANGULAR) - EXPOSED - OCCUPIED AREAS									Х			Х							Х		1	
EXTERIOR (RECTANGULAR)										Х							Х		Х		1, 3	
EXTERIOR (ROUND)							Х										Х		Х		3	
EUTRAL CONDITIONED VENTILATION AIR (65° F - 75° F)																						
INTERIOR (ROUND) - CONCEALED		Х										Х							Х			
INTERIOR (RECTANGULAR) - CONCEALED		Х										Х							Х		1	
INTERIOR (ROUND) - EXPOSED		Х										Х							Х			
INTERIOR (RECTANGULAR) - EXPOSED		Х										Х							Х		1	
EXTERIOR (RECTANGULAR)										Х							Х		Х		1, 3	3
EXTERIOR (ROUND)														Х			Х		Х		1, 3	
																					· ·	
ETURN AIR																				_		
SOUND BOOTS			Х									Х							Х	_		
INTERIOR (ROUND) - CONCEALED		Х										X							X			
INTERIOR (RECTANGULAR) - CONCEALED		X										X							X		1	
,		X																			1	
INTERIOR (ROUND)- EXPOSED												X							X			
INTERIOR (RECTANGULAR) - EXPOSED		Х								V		Х							X		1	
EXTERIOR (RECTANGULAR)										Χ							X		X		1, 3	
EXTERIOR (ROUND)														Х			Х		Х		3	
LITOIDE AID (INIONIDITIONED) A CONTRICTION OF																						
UTSIDE AIR (UNCONDITIONED) & COMBUSTION AIR																						
INTERIOR (RECTANGULAR) - CONCEALED						Х									Х					X	5	
INTERIOR (RECTANGULAR) - EXPOSED - OCCUPIED AREAS						Χ									Х					Х	5	
INTERIOR (ROUND) - CONCEALED						Χ									Х					Х	5	
INTERIOR (ROUND) - EXPOSED - OCCUPIED AREAS						X									Х					Х	5	-
KHAUST AIR																						
INTERIOR (RECTANGULAR) - CONCEALED		Х										Х							Х		2	
INTERIOR (RECTANGULAR) - EXPOSED		Χ										Х							Х		2	
REASE EXHAUST								Χ											Х			

GENERAL.	
1. 'INTERIOR' REFERS TO SYS	STEN

- EMS IN CONDITIONED, SEMI-CONDITIONED, OR INDIRECTLY CONDITIONED SPACES WITHIN THE INSULATED BUILDING ENVELOPE
- 2. 'EXTERIOR' REFERS TO SYSTEMS OUTSIDE THE BUILDING INSULATED ENVELOPE
- 1. PROVIDE EXTERIOR RIGID INSULATION AND SOUND BOARD OR DRYWALL ON THE FIRST 15 FEET OF INTERIOR SUPPLY AND RETURN DUCT FROM RTU'S, AHU'S, ETC. FOR SOUND ATTENTUATION. REFER TO DETAILS.
- 2. PROVIDE 1-1/2" THICK, 3/4 #/ft3 FIBERGLASS BLANKET WITH FOIL FACE JACKET ON ALL EXHAUST DUCTS IN BETWEEN EXTERIOR WALL OR ROOF AND BACKDRAFT DAMPER.
- 3. PROVIDE SELF-ADHESIVE OUTDOOR JACKET OR APPROVED EQUAL PER SPECIFICATIONS FOR INSULATION JACKET MATERIAL. 4. PROVIDE 2" THICK, 1-1/2 #/ft3 INSULATION
- 5. PROVIDE 2.2" THICK, 3/4 #/ft3 INSULATION

PIPE INSULATION AND JACKETING SCHE																			
	INSULATION TYPE	NO INSULATION	1/2" INSULATION	1" INSULATION	JACKET TYPE	NO JACKET	STRAIGHT - KRAFT	STRAIGHT - PVC	STRAIGHT - ALUMINUM	ELBOW - KRAFT	ELBOW - PVC	ELBOW - ALUMINUM	TRANSITION - KRAFT	TRANSITION - PVC	TRANSITION - ALUMINUM	VAPOR BARRIER	ON	YES	
DESCRIPTION																			REMARKS
REFRIGERANT PIPELINES - HOT GAS																			
LESS THAN 1" DIAMETER		Х				Χ											Х		
1" DIAMETER or LARGER		Χ				Χ											Χ		
REFRIGERANT PIPELINES - COLD SUCTION																			
INTERIOR, LESS THAN 1" DIAMETER			Х				Х	Х		Х	Х		Х	Х				Х	1
INTERIOR, 1" DIAMETER or LARGER				Х			Х	Х		Х	Х		Х	Х				Х	1
EXTERIOR, LESS THAN 1" DIAMETER			Х						Х			Х			Х			Х	
EXTERIOR, 1" DIAMETER or LARGER				Х					Х			Х			Х			Х	

1. PROVIDE PVC JACKET ONLY ON INTERIOR EXPOSED PIPING BELOW 9'-0" AFF.

					.BI	LOWE	ER C	OIL S	SC	ΗE	DU	LE.						
				S	UPPLY F	AN					HEA	TING (COIL D	ATA	ELEC	TRICAL		
		MAX	MIN	UPPER	LOWER									WATER	SU	PPLY		
	BASIS OF	SUPPLY	SUPPLY	LIMIT	LIMIT	ESP (IN	FAN	FAN		EAT	LAT		EWT	PRESS.			WEIGHT	
MARK	DESIGN	CFM	CFM	MIN OA	MIN OA	WG)	TYPE	CLASS	HP	(°F)	(°F)	GPM	(°F)	DROP	MCA	MOCP	(LBS)	NOTES
AHU-2	AAON H3	4000	2000	1000	400	2.00	B1	II	4	57.5	89.7	7	180	4.10	5	15	785	1

NOTES:	
1. ECM MOTOR	

				i	PUMP S	CHE	DULE.							
MARK	BASIS OF DESIGN	ROOM	NUMBER	SERVES	TYPE	GPM	HEAD (FT/TDH)	RPM	EFFICIENCY	MOTOR HP	v	PH	WEIGHT (LBS)	NOTES
P-1	ARMSTRONG 4-360-1.25B	STOR.	101	AUX GYM	INLINE	55	75	3520	51	3	480	3	40	12

NOTES: 1. VFD BY 230900 2. NON-OVERLOADING BHP

			.CE	EILING	FAN S	CHED	UI	LE.	•			
MARK	ROOM NAME	# AIR FOILS	RPM	DIAMETER (FT)	WEIGHT (LBS)	HP (WATTS)	V	PH	CIRCUIT SIZE (AMPS)	MAX SOUND dBa	BASIS OF DESIGN (BAF)	NOTES
CF-1	AUXILIARY GYMNASIUM	6	111	12'	125	1	480	3	1.6	55	BASIC 6	1
CF-2	AUXILIARY GYMNASIUM	6	111	12'	125	1	480	3	1.6	55	BASIC 6	1
CF-3	AUXILIARY GYMNASIUM	6	111	12'	125	1	480	3	1.6	55	BASIC 6	1

MARK (IN WG) NC MATERIAL (Y/N) TYPE

 D-2
 0.10
 20
 STL
 No
 SURFACE

 D-3
 0.10
 20
 STL
 No
 SURFACE

D-5 0.10 20 STL No DUCT

G-1 0.10 20 ALUM No SURFACE

G-2 0.10 20 ALUM No SURFACE
G-3 0.10 20 STL No DUCT
G-4 0.10 20 STL No WALL

G-5 0.10 20 STL No SURFACE

1. VFD BY FAN MFGR, CONTROLLER, AIRFOIL RETAINERS, HUB CLIPS, SAFETY CABLES, GRADE 8 BOLTS

STATIC PD MAX

D-1 0.10 20 STL

D-4 0.10 20 STL

					.co	ND	ENS	ING (JN	ΙT	SC	HE	DULE.				
		COOLING	HEATING	MIN. EFF	ICIENCY	CON	DENSE	R DATA		Е	LECT	RICAL	DATA	OVERALL		BASIS OF	
		CAP.	CAP			FAN	FAN	FAN					MAX FUSE	DIMENSIONS	WEIGHT	DESIGN	
MARK	SERVES	(MBH)	(MBH)	EER	COP	NO.	HP	TYPE	٧	PH	FLA	MCA	SIZE	(LxWxH)	(LBS)	(MITSUBISHI)	NOTES
CU-1	AC-1	12.0	13.6	26.1	4.2	1		PROP	208	3	0.5	11	15	22x32x11	83	MUZ FH12NA	1, 2, 3, 4

1. PROVIDE REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS. SIZE PER MANUFACTURERS RECOMMENDATIONS.

 R-410a REFRIGERANT.
 NOMINAL COOLING CAPACITY BASED ON 95°F CONDENSING TEMPERATURE & 75°F, 50% RH RA. 4. LOW AMBIENT COOLING TO 0°F.

		•	ROOF H	OOD	SCHE	DULE.	1	
MARK	SERVES	CFM	EXTERNAL S.P. (IN WG)	HOOD TYPE	HOOD OVERALL SIZE (IN) LxWxH	THROAT SIZE WxL (IN)	BASIS OF DESIGN	NOTES
IH-1	AHU-2	4000	0.04	INTAKE	48x72x26	24x48	GREENHECK FG1	1

1. ALUMINUM BIRDSCREEN, ALUMINUM INSECT SCREEN OVER THROAT, INSULATED 18" HIGH CURB WITH DAMPER TRAY, BAKED ENAMEL FINISH COLOR AS SELECTED BY ARCHITECT.

OOD YPE	SIZE (IN) LxWxH	SIZE WxL (IN	BASI DES		OTES									
TAKE	48x72x26	24x48	GREENHI	ECK FG1 1										
INSULAT	TED 18" HIGH CUI	RB WITH DAMPE	R TRAY, BAKED	ENAMEL FINISH										
.\	VAV T	ERMIN	NAL U	JNIT S	CHEDUL	E - ALT	BID) <u>.</u>						
	S	TATIC PRI	ESSURE		SOUND			НС	T WATER	COIL	DATA			
_		INLET	DOWN	MAX	MAX	FACTORY	ГАТ	O A D A OITY	MAX		BRANCH			
DIME	NSIONS N	ИАХ. (IN ∣S	SIKEAM!	KADIATED	DISCHARGE	SOUND	∣EAI	CAPACITY	∣ P.D.	EWT	SIZE 10	CONTROL	i	

.DIFFUSER, REGISTER & GRILLE SCHEDULE.

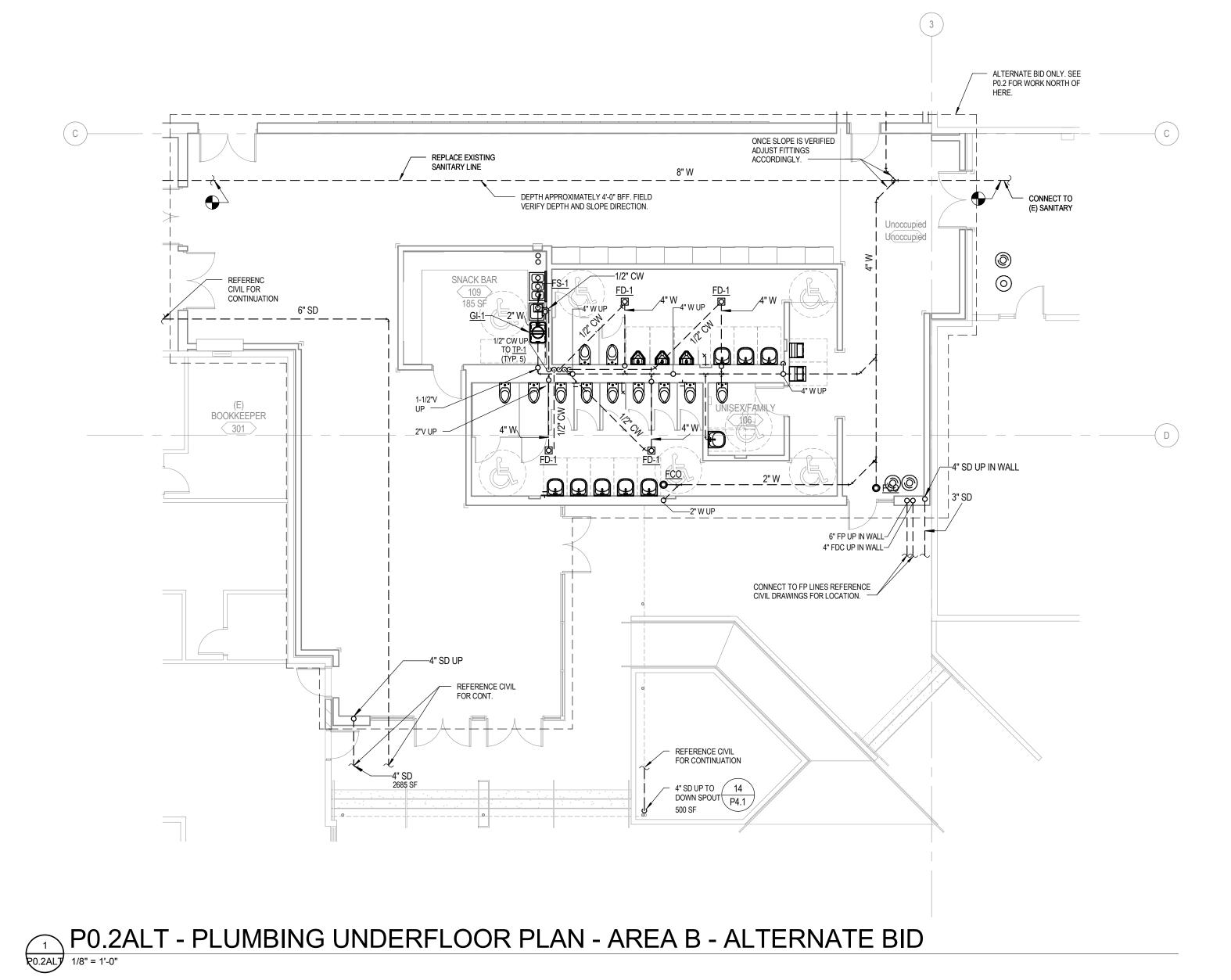
DAMPER MOUNTING

No LAY-IN

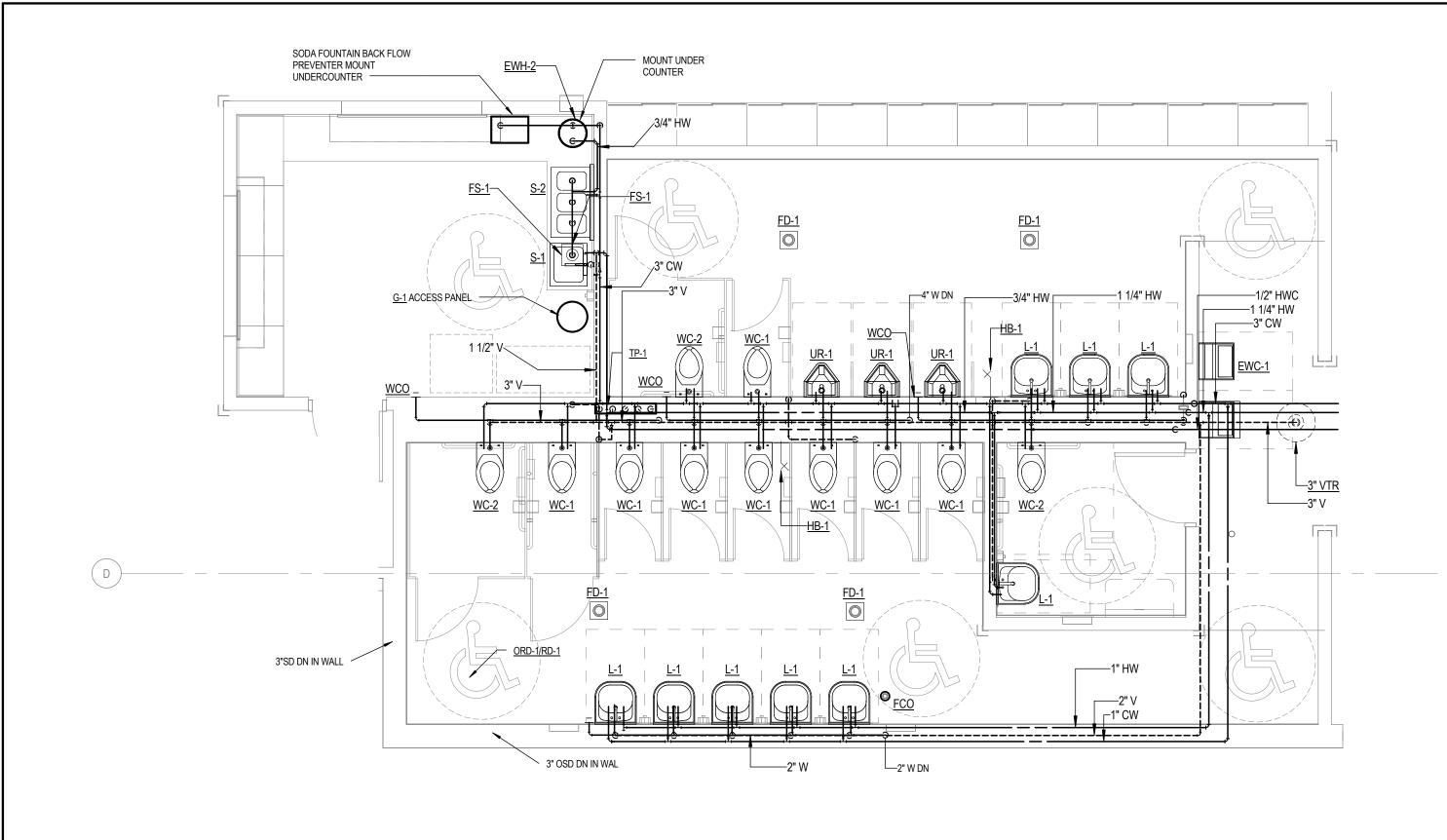
No DUCT

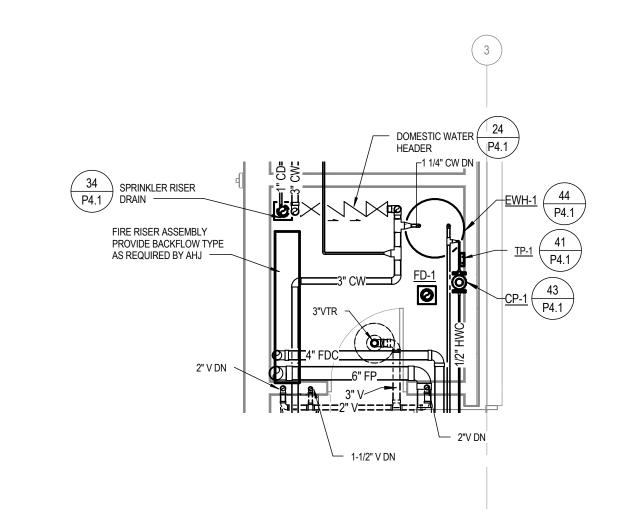
			PRIMARY	' AIR	MAX PD				STATIC P	RESSURE		SOUND			F	IOT W	ATER	COIL	DATA			
					@ MAX	INLET	OUTLET	OVERALL	INLET	DOWN	MAX	MAX	FACTORY				MAX		BRANCH			
			COOLING	HEATING	FULL CFM	SIZE	DIMENSIONS	DIMENSIONS	MAX. (IN	STREAM	RADIATED	DISCHARGE	SOUND	EAT	CAPACITY		P.D.	EWT	SIZE TO	CONTROL		
TAG	UNIT	MAX	MIN	CFM	(IN W.C.)	(IN)	(INxIN)	(LxWxH)	W.C.)	(IN W.C.)	NC	NC	ATTENUATOR	(°F)	MBH	GPM	(PSI)	(°F)	COIL (IN)	VALVE	BASIS OF DESIGN	NOTES
VAV-2-1	AHU-2	700	280	700	0.50	9"Ø	14x13	16x14x13	1.0	0.5	14	17	No	55	22.5	2.2	0.50	180	1"	2-WAY	TITUS DESV 09	
VAV-2-2	AHU-2	700	280	700	0.50	9"Ø	14x13	16x14x13	1.0	0.5	14	17	No	55	22.5	2.2	0.50	180	1"	2-WAY	TITUS DESV 09	
VAV-2-3	AHU-2	840	350	840	0.50	9"Ø	20x13	16x14x13	1.0	0.5	17	17	No	55	26.9	4.4	2.00	180	1"	2-WAY	TITUS DESV 09	
VAV-2-5	AHU-4	1515	610	1515	0.50	16"Ø	24x18	16x24x18	1.0	0.5		10	No	55	48.6	3.2	1.20	180	1"	3-WAY	ENVIROTEC SDR-WC 16	

	.VAV TERMINAL UNIT SCHEDULE - BASE BID.																					
			PRIMARY A	AIR	MAX PD				STATIC PI	RESSURE		SOUND			HOT WATER COIL DATA							
			COOLING	HEATING	@ MAX FULL CFM	INLET SIZE	OUTLET DIMENSIONS	OVERALL DIMENSIONS	INLET MAX. (IN	DOWN STREAM	MAX RADIATED	MAX DISCHARGE	FACTORY SOUND	EAT	CAPACITY		MAX P.D.		BRANCH SIZE TO	CONTROL		
TAG	UNIT	MAX	MIN	CFM	(IN W.C.)	(IN)	(INxIN)	(LxWxH)	W.C.)	(IN W.C.)			ATTENUATOR				(PSI)		COIL (IN)	VALVE	BASIS OF DESIGN	NOTES
VAV-2-1	AHU-2	700	280	700	0.50	9"Ø	14x13	16x14x13	1.0	0.5	14	17	No	55	22.5	2.2	0.50	180	1"	2-WAY	TITUS DESV 09	
VAV-2-2	AHU-2	700	280	700	0.50	9"Ø	14x13	16x14x13	1.0	0.5	14	17	No	55	22.5	2.2	0.50	180	1"	2-WAY	TITUS DESV 09	
VAV-2-3	AHU-2	840	350	840	0.50	9"Ø	20x13	16x14x13	1.0	0.5	17	17	No	55	26.9	4.4	2.00	180	1"	2-WAY	TITUS DESV 09	
VAV-2-4	AHU-2	1000	400	1000	0.50	12"Ø	16x15	16x16x15	1.0	0.5	15	17	No	55	32.6	3.0	1.70	125	1"	3-WAY	ENVIROTEC SDR-WC 12	







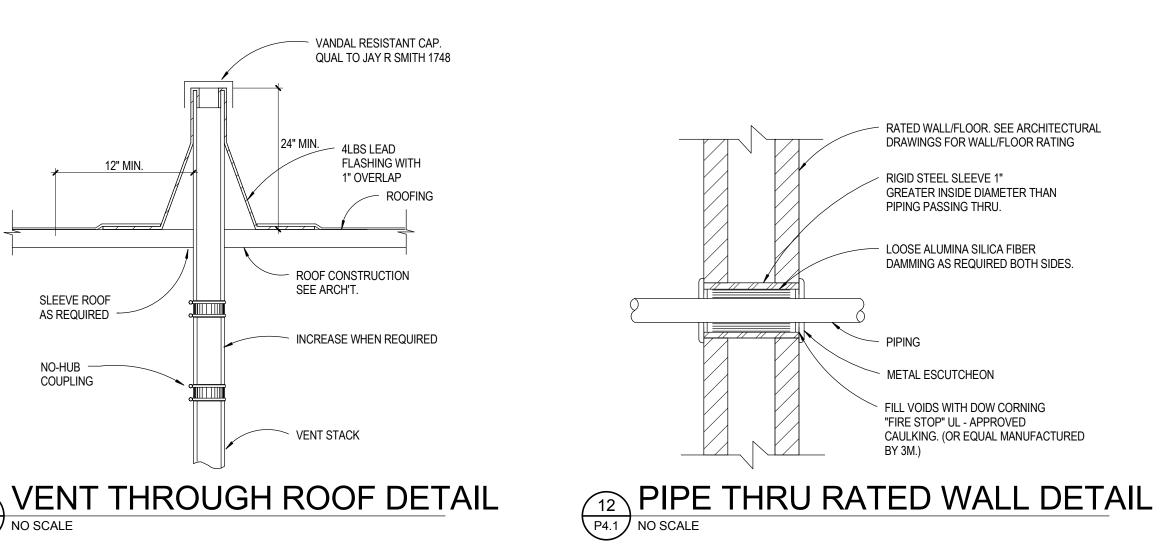


ENLARGED PLAN - RESTROOM 107

ENLARGED PLAN - FIRE RISER ROOM

ENLARGED PLUI ELMIRA HIGH RENOVATIONS





WALL SURFACE

CLEANOUT PLUG

ROUND POLISHED

COVER PLATE (NOT

REQUIRED UNLESS

LOCATED IN WALLS)

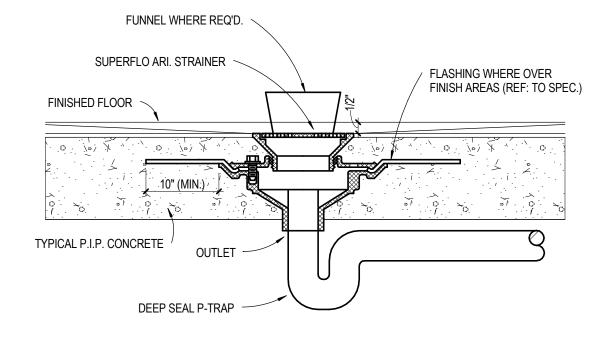
STAINLESS STEEL WALL

COUNTERSUNK SCREW

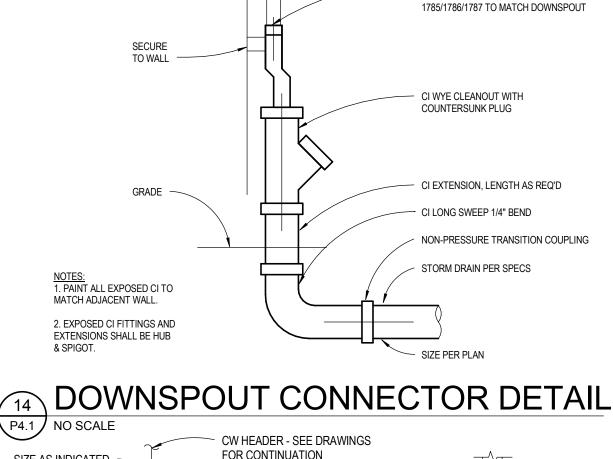
SCREWED CONTERSUNK

OPENING CUT-OUT IN WALL

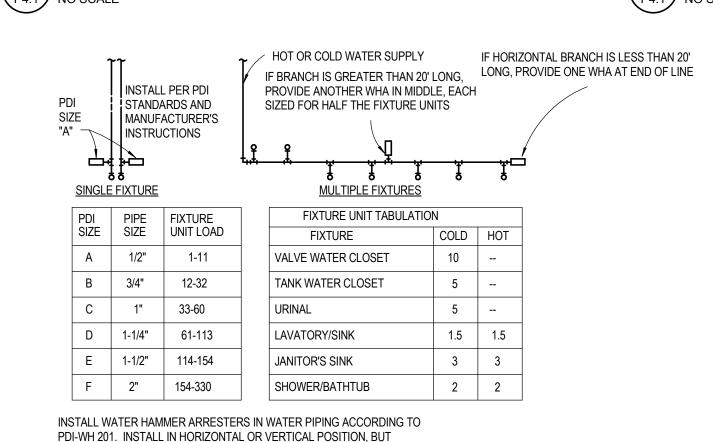
FINISHED GRADE

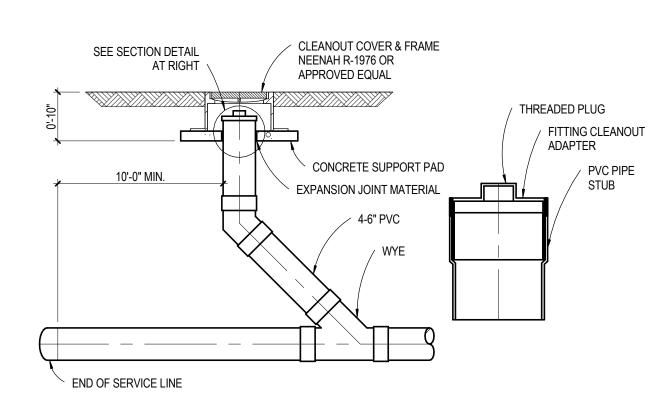


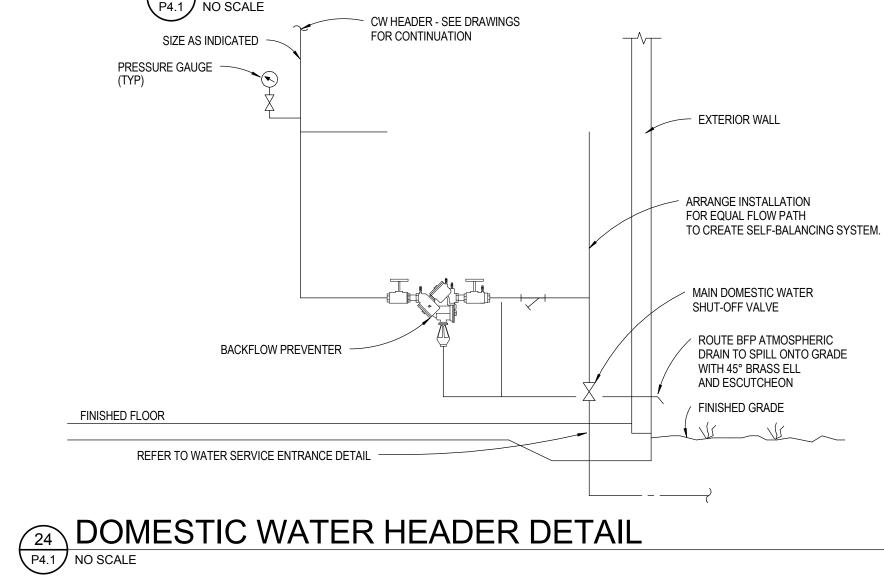




REFERENCE ARCHITECTURAL CI DOWNSPOUT ADAPTER EQUAL TO JAY R SMITCH SERIES







TEST DRAIN FROM FIRE RISER



NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE

FINISHED FLOOR

SERVICE PIPE FROM INTERFACE POINT THRU FLANGE @ 12" AFF

SHALL BE CLASS 52 DUCTILE

PROVIDE CONCRETE THRUST

BLOCK OR OTHER APPROVED

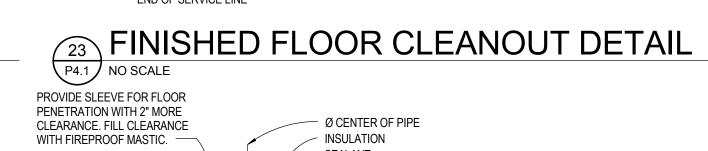
THRUST RESTRAINT IN

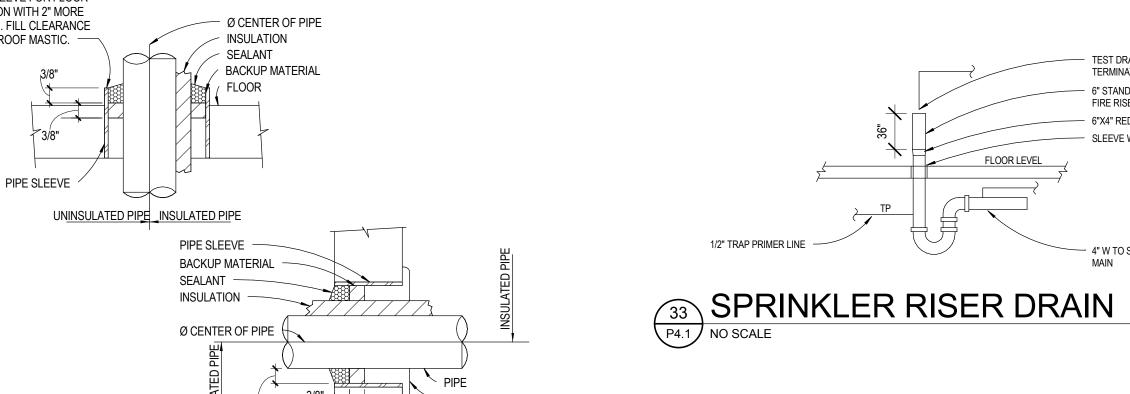
ACCORDANCE W/ NFPA 24

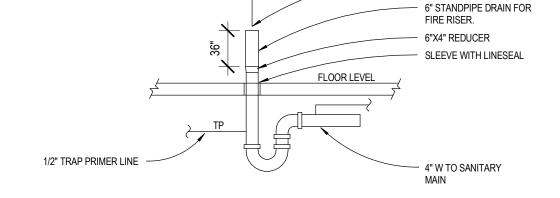
RESTRAINING CLAMP

& TIE RODS

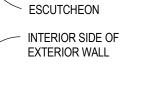
THE UNITS AS SHOWN IN PDI-WH 201 OR PER THE

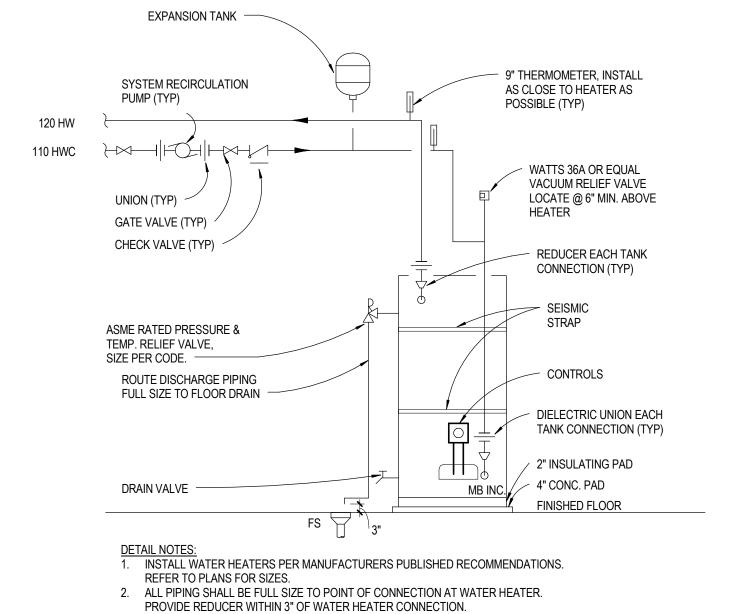


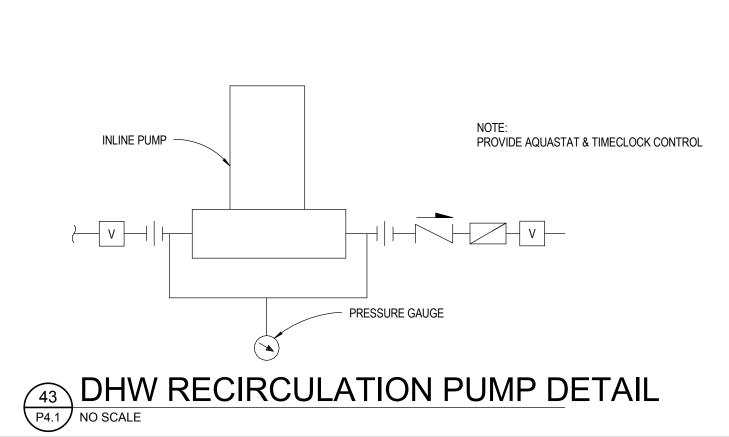


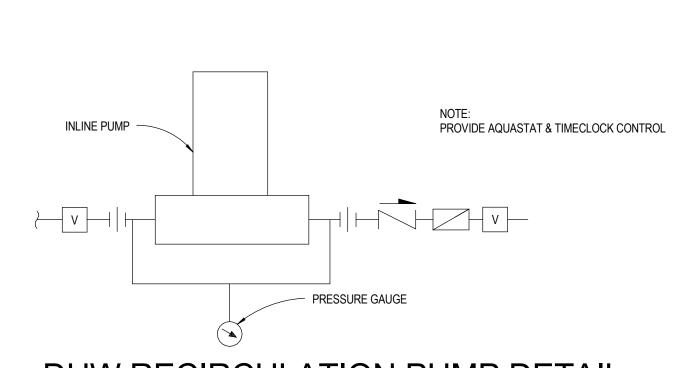


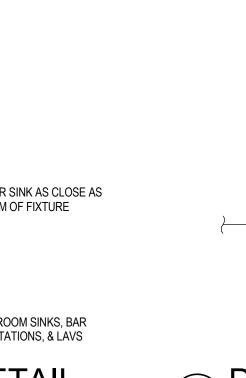






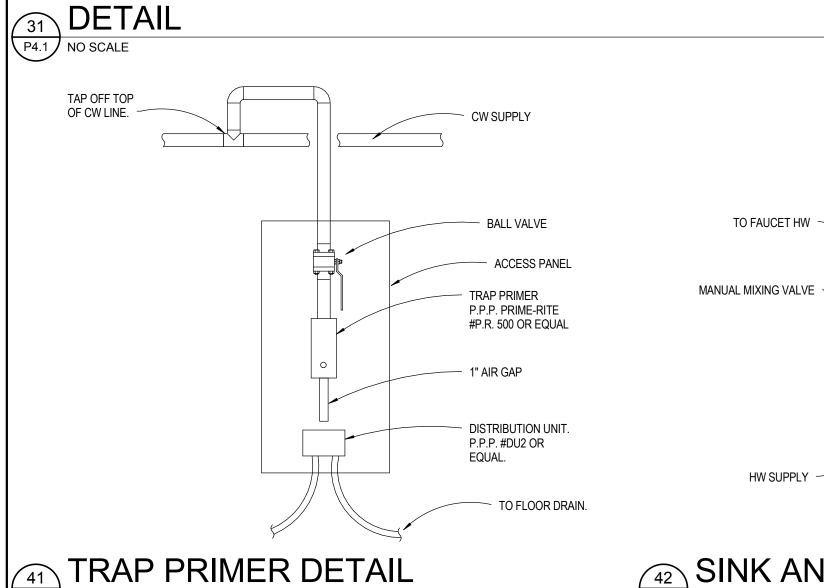




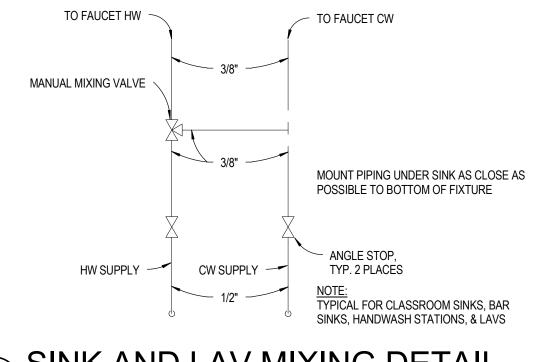


ELECTRIC WATER HEATER DETAIL

NO SCALE



DOMESTIC WATER SERVICE ENTRANCE



SINK AND LAV MIXING DETAIL
P4.1 NO SCALE

HORIZONTAL LINE

OR CLEANOUT TEE

WALL CLEANOUT DETAIL

SET FLANGE PLUMB & TRUE @ 12" AFF FOR TESTING OF

COORD. WITH STRUCTURAL

WOOL OR FIBEROUS BATTS

PACK ANNULAR SPACE W/ ROCK

VERIFY MINIMUM

DEPTH OF BURY W/

WATER AUTHORITY

FOOTING ABOVE SERVICE PIPE

UNDERGROUND MAIN & EXTENSION BY INTERIOR CONTRACTOR

	OREGON OREGON EXPIRES: 12/31/2016 Mar 3 2016 CO	
--	---	--

		.PL	.UN	1BI	NG	FI)	TURE SCHEE	ULE.	
		LOC	AL C	ONN (IN)	ECTIO	ONS			
MARK	FIXTURE	W	٧	CW	HW	THW	BASIS OF DESIGN	NOTES	REMARKS
DN-1	DOWN SPOUT						JAY R. SMITH		
	FI FCTRIC WATER COOLER	1 1/2"	1 1/2"	3/8"					ID ODEDATION
EWC-1		_					ELKAY EZWS-ERPBM 28K		IR OPERATION
EWC-2	ELECTRIC WATER COOLER	1 1/2"	1 1/2"	3/8"			ELKAY EZWS-ERPBM 8K		IR OPERATION
FCO	FLOOR CLEANOUT	4"					IANA D. CAMITILI COOFII (COMP.		OUTS AS INDICATED
FD-1	FLOOR DRAIN						JAY R. SMITH 2005K06NB		SIZE AS INDICATED
FS-1	FLOOR SINK	2"	1 1/2"				WASE 9110		
GI-1	GREASE INTERCEPTOR 20 GPM	2"	1 1/2"				SCHIER PRODUCTS GB-20	1	
HB-1	HOSE BIBB EXTERIOR NON FREEZE'			3/4"			WOODFORD B65		
L-1	LAVATORY	1 1/4"	1 1/2"	3/8"	3/8"		KOHLER		SLOAN OPTIMA EAF-200-P-ISM FAUCET
ORD-1/RD-1	OVERFLOW ROOF DRAIN/ROOF DRAIN COMBO						WATTS RD-250		SIZE AS INDICATED
S-1	CONCESSIONS SINK	2"	1 1/2"	1/2"	1/2"		ELKAY LARDQ221950		CHICAGO FAUCET 245ABCP
S-2	3 COMP SINK	2"	1 1/2"	3/4"	3/4"		BK RESOURCES		CHICAGO FAUCET 786HZ, DBL JOINTED ELBOW
TP-1	TRAP PRIMER			1/2"			PPP MPB500		
UR-1	URINAL	2"	1 1/2"	1"			KOHLER 5016-ET		SLOAN ROYAL 186 HEU FLUSH VALVE, 0.5 GPF
WC-1	WATER CLOSET	4"	2"	1 1/4"			KOHLER K-4325		SLOAN ROYAL 111-1.28 FLUSH VALVE, 1.28 GPF
WC-2	WATER CLOSET	4"	2"	1 1/4"			KOHLER K-4325		SLOAN ROYAL 111-1.28 FLUSH VALVE, 1.28 GPF
WCO	WALL CLEAN OUT	4"							

	.CIRC PUMP SCHEDULE.												
MARK	BASIS OF DESIGN	ROOM	SERVES	TYPE	GPM	HEAD (FT/TDH)	RPM	EFFICIENCY	MOTOR HP	V	WEIGHT (LBS)	NOTES	
CP-1	CIRCULATION PUMP	FIRE RISER	HWC	INLINE	5	8	1725		0.083	115	20	1	

NOTES: 1. LEAD FREE BRONZE, AQUASTAT, TIMER

	.WATER HEATER SCHEDULE - ELECTRIC.												
	MANUFACTURER		EWT	LWT	RECOVERY	TANK	ELECTE	RICAL	DATA				
MARK	& MODEL NO.	STORAGE	(°F)	(°F)	(GPH)	LINING	WATTS	٧	PH	NOTES			
EWH-1	AO SMITH DSE-120	120			49		12000	480	3				
EWH-2	AO SMITH DEL-6	6			10		2500	208	1				

GRAVITY GREASE INTERCEPTOR SCHEDULE.													
MARK	SERVICE	FLOW RATE (GPM)	LIQUID CAPACITY (GAL)	GREASE CAPACITY (LBS)	DIMENSIONS (LxWxH)	WEIGHT (LBS)	BASIS OF DESIGN	NOTES					
GI-1	SNACK BAR	20	22	109	21"X27"X15"	31	SCHIER PRODUCTS GB-20	1					

NOTES:
1. INSTALL PER MFGRS RECOMMENDATIONS. INTEGRAL FLOW CONTROL, 2" INLET/OUTLET, RISER AS REQ'D TO MOUNT FLUSH W/ FLOOR, WATER/GAS TIGHT COVER, MIN 450 LBS. LOAD CAPACITY.

	INSULATION TYPE	NO INSULATION	1/2" MINERAL FIBER	1" MINERAL FIBER	1-1/2" MINERAL FIBER	JACKET TYPE	NO JACKET	STRAIGHT - KRAFT	STRAIGHT - PVC	STRAIGHT - ALUMINUM	STRAIGHT - STAINLESS STEEL	ELBOW - KRAFT	ELBOW - PVC	ELBOW - ALUMINUM	ELBOW - STAINLESS STEEL	TRANSITION - KRAFT	TRANSITION - PVC	TRANSITION - ALUMINUM	TRANSITION - STAINLESS STEEL	
DESCRIPTION		_										_	_	_		•		•	·	REMARKS
STORM																				
UNDERGROUND		Χ					X													
ABOVEGROUND - CONCEALED			Χ					Х				Х				Х				NOTE 4
ABOVEGROUND - EXPOSED			Χ					Х	Х				Х				Х			NOTE 3
OVERFLOW DRAIN																				
UNDERGROUND		Χ					Х													
ABOVEGROUND - CONCEALED			Χ					Х				Χ				Х				NOTE 4, 5
ABOVEGROUND - EXPOSED			Χ					X	Х				Х				Х			NOTE 3, 5
CANITADV															_		_			
SANITARY						_	V			-					_					
UNDERGROUND ABOVEGROUND		X					X								-		\dashv			NOTEO 4 O
ADOVEGROUND		Х					X								-+		\dashv			NOTES 1, 2
VENT															\dashv		\dashv			
UNDERGROUND		Χ					X								+					
ABOVEGROUND		X					X	_							\dashv		\dashv			
							<u> </u>													
DOMESTIC COLD WATER																				
UNDERGROUND		Χ					X													
ABOVEGROUND - CONCEALED				Χ				Х				Х				Х				NOTE 4
ABOVEGROUND - EXPOSED				Χ					Х				Х				Х			NOTES 2, 3
DOMESTIC HOT WATER																	_			
DOMESTIC HOT WATER												\ , .								
ABOVEGROUND - CONCEALED - UP TO 1-1/2"				Х			+	X				X			_	X				NOTE 4
ABOVEGROUND - CONCEALED - > 1-1/2"					Χ		+	X	ļ .,			Х			_	Х	·			NOTE 4
ABOVEGROUND - EXPOSED - UP TO 1-1/2"				Χ					X				Х				X			NOTES 2, 3
ABOVEGROUND - EXPOSED - > 1-1/2"					Х				X				Х		_		Х			NOTES 2, 3
DOMESTIC HOT WATER RECIRC															_		-			
ABOVEGROUND - CONCEALED				Х			+	X				Х			-	Х				NOTE 4
ABOVEGROUND - CONCEALED ABOVEGROUND - EXPOSED				X		+	+	+^	X			^	Х		+	^	Х			NOTE 3

- 1. INSULATE ABOVE GROUND P-TRAPS FROM FLOOR DRAINS FOLLOWING REQUIREMENT FOR ABOVE GROUND STORM PIPELINES.
- 2. EXPOSED PIPING UNDER ADA ACCESSIBLE SINKS SHALL BE INSULATED WITH TRUEBRO LAV GUARD 2 UNDERSINK PIPE COVERS
- 3. PROVIDE PVC JACKET ON STRAIGHT PIPING ONLY ON INTERIOR EXPOSED PIPING BELOW 9'-0" AFF.
- 4. JACKET NOT REQUIRED FOR CLOSED CELL FLEXIBLE ELOSTOMERIC INSULATION 5. INSULATE ONLY THE FIRST 10 FT. OF OVERFLOW DRAIN PIPING FROM DRAIN BODY.

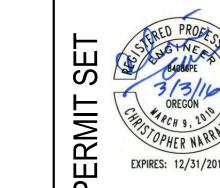
KEY PLAN

FIRE PROTECTION PLAN - AREAS A & B - BASE BID

BID

FIRE PROTECTION PLAN - AREAS A & B - ALTERNATE BID

KEY PLAN



FIRE PROTECTION PLANS - SECOI ELMIRA HIGH SCHOOL ELMIRA RENOVATIONS

FP1.274-13107-40
03/3/2016
BEVISIONS

DLR Group
Architecture Planning Interiors

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DEVICE BOXES AND RACEWAYS

- 1. SEE SYMBOLS LEGEND THIS SHEET FOR MOUNTING HEIGHTS UNLESS NOTED OTHERWISE ON DRAWINGS.
- 2. ALL MOUNTING HEIGHTS ARE TO CENTERLINE OF BOXES UNLESS NOTES
- 3. MOUNT LIGHT SWITCHES AND WALL SWITCH OCCUPANCY SENSORS SHOWN ON STRIKE SIDE OF DOOR WITHIN 12-INCHES OF DOOR/SIDELIGHT FRAMING.
- 4. MOUNT LIGHT SWITCHES AND WALL SWITCH OCCUPANCY SENSORS SHOWN ON HINGE SIDE OF DOOR BOTH CLEAR OF DOORSWING AND WITHIN 12-INCHES OF DOOR IN ITS OPEN POSTION.
- 5. PROVIDE BOX EXTENDER FOR FLUSH INSTALLATION OF DEVICES LOCATED IN ARCHITECTURAL CASEWORK THAT IS FLUSH WITH ADJACENT WALL (SUCH AS RECEPTACLES FOR GARBAGE DISPOSERS).
- 6. COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES. AND SYSTEMS DEVICES WITH MARKERBOARDS. ADJUST BOX LOCATIONS TO AVOID MARKERBOARDS.
- 7. COORDINATE LOCATION OF DEVICE BOXES FOR SWITCHES, RECEPTACLES, AND SYSTEMS DEVICES WITH TACKBOARDS. ADJUST BOX LOCATIONS TO AVOID TACKBOARDS. PROVIDE BOX EXTENDER FOR A FLUSH INSTALLATION WHERE DEVICES MUST BE MOUNTED AT TACKBOARD/TACKWALL.
- 8. SPECIAL RECEPTACLES: TO ENSURE PROPER INSTALLATION, VERIFY BACKBOX AND WALL PLATE REQUIREMENTS FOR DEVICES PRIOR TO ROUGH IN.
- 9. ACCESS CONTROL DEVICES: SEE ELECTRICAL DETAIL SHEETS FOR GENERAL ROUGH IN REQUIREMENTS. REFER TO DOOR HARDWARE SPECIFICATIONS AND SUBMITTALS FOR INDIVIDUAL HARDWARE REQUIREMENTS.
- 10. RACEWAY REQUIREMENTS IN FINISHED SPACES WITH EXPOSED CEILING: PROVIDE RACEWAYS FOR ALL LOW VOLTAGE CABLING SYSTEMS AT ROOF DECK OR STRUCTURE, INCLUDING BUT NOT LIMITED TO, HVAC CONTROLS, LIGHTING CONTROLS, TELECOM, INTERCOM, CLOCKS, PUBLIC ADDRESS, FIRE ALARM, INTRUSION DETECTION, ACCESS CONTROL AND VIDEO SURVEILLANCE EXPOSED LOW VOLTAGE CABLING IS UNACCEPTABLE
- 11. RACEWAY ROUTING IN FINISHED SPACES WITH EXPOSED CEILING: INSTALL RACEWAYS TIGHT TO EXPOSED ROOF DECK. RACEWAYS ARE PERMITTED ALONG BOTTOM OF STRUCTURAL MEMBERS WHERE DEVICES ARE INSTALLED TIGHT TO BOTTOM OF STRUCTURE.
- 12. EXPOSED RACEWAYS: PAINT ALL CONDUIT, BOXES AND COVERPLATES TO MATCH ADJACENT FINISHES. COORDINATE INSTALLATION SCHEDULE WITH OTHER TRADES. UNFINISHED EXPOSED RACEWAY IN FINISHED SPACES IS
- 13. COORDINATE WITH STRUCTURAL FOR ALL CONDUITS THAT PASS THROUGH FOOTINGS AND FOUNDATION WALLS. SEE SHEET S3.2 FOR ADDITIONAL REQUIREMENTS.

GENERAL LIGHTING NOTES

- 1. SEE LIGHT FIXTURE SCHEDULE OR SYMBOLS LEGEND FOR MOUNTING HEIGHTS, UNLESS NOTED OTHERWISE.
- 2. PROVIDE #10AWG MINIMUM CONDUCTORS FOR ALL EXTERIOR LIGHTING
- 3. SEE ARCHITECTURAL BUILDING ELEVATIONS FOR LOCATION OF BUILDING MOUNTED EXTERIOR LIGHT FIXTURES.
- 4. PROVIDE BEAD OF SILICON SEALANT AROUND RECESSED BACK BOX PERIMETER AT ALL BUILDING MOUNTED EXTERIOR LIGHT FIXTURE LOCATIONS.
- 5. LOW VOLTAGE CABLING (FROM RELAY POWER PACKS TO OCCUPANCY SENSORS) CAN SHARE RACEWAY WITH LINE VOLTAGE CONDUCTORS IF CABLE INSULATION RATING IS EQUAL TO OR HIGHER THAN CONDUCTOR INSULATION RATING.
- 6. SEE SPECIFICATION SECTION 260533 (PART 3) FOR LIMITATIONS ON USE OF FLEXIBLE CONDUIT. TO INCLUDE FIXTURE WHIPS. IF MC CBALE IS NOT ALLOWED, TANDEM WIRING FROM FIXTURE TO FIXTURE IS UNACCEPTABLE. ALL FIXTURE WHIPS SHALL ORIGINATE FROM A J-BOX. EXCEPTIONS INCLUDE MASTER/SATELLITE BALLAST CONFIGURATIONS WHICH REQUIRE TANDEM WIRING OR PRE-CONNECTERIZED WIRING SOLUTIONS, WHERE APPROVED.
- 7. WALL BOX DIMMERS: ROUGH-IN FOR WALL BOX DIMMERS SHALL BE SEPARATE FROM ADJACENT SNAP SWITCHES.
- 8. FIXTURES DENOTED WITH LOWER CASE LETTERS SHALL BE CONTROLLED BY SWITCHES DENOTED WITH THE SAME LOWER CASE LETTER IN EACH ROOM.

GENERAL POWER NOTES

- 1. VERIFY ANY NEUTRAL WIRES REQUIRED ON 10/0R 30/0MECHANICAL UNITS FURNISHED UNDER DIVISION 23. IF REQUIRED, PROVIDE NEUTRAL.
- 2. PROVIDE DEDICATED 120-VOLT CIRCUITS TO ALL HVAC BAS CONTROL DEVICES AND PANELS. COORDINATE QUANTITY WITH DIVISION 23. UTILIZE NEAREST SPARE 120-VOLT, 20/1 BREAKER. LABEL TYPED PANEL DIRECTORY ACCORDING TO LOAD BEING SERVED.
- 3. IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS FOR CONNECTIONS TO ALL MECHANICAL EQUIPMENT.
- 4. LOCATE SWITCHES FOR CONTROL OF FANS IN TWO-GANG BOX WITH LIGHT SWITCH WHERE APPLICABLE.
- 5. PROVIDE MINIMUM OF 24-INCHES SEPARATION BETWEEN BOXES LOCATED BACK-TO-BACK AT ALL FIRE-RATED WALLS. AS AN OPTION, PROVIDE FIRE-RATED MOLDABLE PUTTY PADS AT INDIVIDUAL BACK
- 6. PANEL DIRECTORIES SHALL REFLECT OWNER'S NUMBERING SCHEME, NOT ARCHITECTURAL NUMBERING SCHEME. OBTAIN REQUIRED INPUT FROM OWNER PRIOR TO FABRICATION OF TYPED PANEL DIRECTORIES.
- 7. PROVIDE #10AWG CONDUCTORS FOR ALL WARM AIR DRYER CIRCUITS. PROVIDE LOCKOUT DEVICE AT ALL BREAKERS SERVING WARM AIR
- 8. PER NEC 210.4, DO NOT SHARE NEUTRAL CONDUCTORS ON 120-VOLT BRANCH CIRCUITS. USE OF HANDLE TIES ACROSS ALL SINGLE POLE CIRCUIT BREAKERS SHARING A NEUTRAL SHALL NOT BE PERMITTED

SYMBOLS

LIGHTING FIXTURE: XXX = FIXTURE TYPE XXX-X = CKT. DESIGNATION XXX-X = RELAY PANEL CIRCUIT OR LOCAL SWITCH DESIGNATION LIGHTING FIXTURE ON EMERGENCY SYSTEM LIGHTING FIXTURE WALL MOUNTED LIGHTING FIXTURE EXIT SIGN, CEILING MOUNTED, DIRECTIONAL ARROW(S) AS INDICATED EXIT SIGN, WALL MOUNTED, DIRECTIONAL ARR AS INDICATED. MOUNT 94-INCHES AFF, UNO LIGHTING CONTROL DEVICES: PHOTOELECTRIC CELL LIGHTING CONTROL UNIT	S S S S S S S S S S S S S S S S S S S	SWITCHES: MOUNT 42-INCHES AFF UNO SWITCH, SINGLE POLE SWITCH, DOUBLE POLE SWITCH, 3-WAY SWITCH, 4-WAY SWITCH, DIMMER SWITCH, KEY OPERATED OCCUPANCY SENSOR - WALL SWITCH PIR TYPE OCCUPANCY SENSOR - WALL SWITCH W/ DIMMING GYM CONTROL STATION, MULTI-SWITCH DEVICE WITH CUSTOM WALL PLATE. SEE DETAIL SHEETS. CEILING MOUNTED LIGHTING CONTROL DEVICES MAXIMUM MOUNTING HEIGHT OF 10-FEET AFF OCCUPANCY SENSOR - 360° DUAL TECHNOLOGY TYPE OCCUPANCY SENSOR - 360° PIR TYPE OCCUPANCY SENSOR - 360° ULTRASONIC TYPE
		OCCUPANCY SENSOR - HIGH CEILING, PIR TYPE

ABBREVIATIONS

ABOVE COUNTER ABOVE FINISHED FLOOR

AIR HANDLER UNIT

CONDENSING UNIT DEMOLISH

ELECTRIC WATER COOLER

FIRE ALARM ANNUNCIATOR

FIRE ALARM CONTROL PANEL

EQUIPMENT GROUNDING CONDUCTOR

SHORT CIRCUIT CURRENT RATING

GROUND FAULT PROTECTION (EQUIPMENT)

GROUDN FAULT CIRCUIT INTERRUPTER (PERSONNEL)

FIBER OPTIC CABLING

GAS WATER HEATER

HOT WATER CIRC PUMP

ISOLATED GROUND

EMPTY CONDUIT

EXHAUST FAN

EXISTING

INTERCOM

LIGHTING

NEUTRAL

PULLBOX

RFMOVF

RELOCATE

NEW LOCATION

PANELBOARD

ROUGH-IN ONLY

UNIT HEATER

WIRFGUARD

TAMPER RESISTAN

UNLESS OTHERWISE NOTED

WEATHERPROOF (NEMA-3R)

EWC

ΕX

FACP

GWH

HWP

UON

			MACHINE PRINTED LABELS ARE ACCEPTABLE UNO
A	CIRCUIT HOME RUN	Ю	SIMPLEX RECEPTACLE
—	CONDUIT TURNING UP		DUPLEX RECEPTACLE
	CONDUIT TURNING DOWN	\Rightarrow	
—	CONDUIT STUB-UP	\Rightarrow	FOURPLEX RECEPTACLE
_ 	CONDUIT SLEEVE	\Rightarrow	DUPLEX RECEPTACLE, FLUSH IN CEILING
-		#	DUPLEX RECEPTACLE, GFI
	CONDUIT SEAL	\Rightarrow	DUPLEX RECEPTACLE, MOUNT BOTTOM OF DEVICE
	FIRE RATED SLEEVE		2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH
	TRANSFORMER		EXISTS, SEE ARCHITECTURAL CASEWORK ELEVATIO IN TOILETS, MOUNT 42-INCHES AFF UNO
_	BRANCH CIRCUIT PANELBOARD	-0	WEATHER RESISTANT GFI DUPLEX RECEPTACLE,
	MOUNT 72-INCHES TO TOP	\Longrightarrow_{WP}	MOUNT 18-INCHES AFF WITH A WEATHERPROOF, IN-USE COVER
<u>-</u>	DISTRIBUTION PANELBOARD MOUNT	+	SPECIAL RECEPTACLE, DEEP WELL BOX
	72-INCHES TO TOP	_	
,	FOUNDMENT CADINET, ACMOTED	(J)	FLUSH JUNCTION BOX, CEILING MOUNTED

- EQUIPMENT CABINET, AS NOTED SYSTEM GROUND ELECTRODE
- ELECTRICAL HAND HOLE MANUAL CONTROLLER WITH THERMAL OVERLOAD MANUAL CONTROLLER W/O THERMAL OVERLOAD

ELECTRICAL MANHOLE

MUSHROOM SWITCH

PULL BOX

- REQUIREMENTS WITH FIRE/SMOKE DAMPER MANUFACTURER. UTILIZE SPARE (INDICATE AREA SERVED)'. SEE ELECTRICAL DETAIL SHEETS.
- 8. PROVIDE ROUGH IN AND CONNECTION TO FIRE ALARM SYSTEM AT ALL

DECEDENCI CO. MOLINE 10 INICHES ASE LINO

	RECEPTACLES: MOUNT 18-INCHES AFF, UNO MACHINE PRINTED LABELS ARE ACCEPTABLE UNO
\mapsto	SIMPLEX RECEPTACLE
\Rightarrow	DUPLEX RECEPTACLE
\Longrightarrow	FOURPLEX RECEPTACLE
\Rightarrow	DUPLEX RECEPTACLE, FLUSH IN CEILING
#	DUPLEX RECEPTACLE, GFI
	DUPLEX RECEPTACLE, MOUNT BOTTOM OF DEVICE 2-INCHES ABOVE TOP OF BACKSPLASH OR 6-INCHES ABOVE COUNTERTOP IF NO BACKSPLASH EXISTS, SEE ARCHITECTURAL CASEWORK ELEVATIONS IN TOILETS, MOUNT 42-INCHES AFF UNO
	⊕ ≡ ≡

- FLUSH JUNCTION BOX, WALL MOUNTED SURFACE JUNCTION BOX, WALL MOUNTED
- SURFACE JUNCTION BOX, CEILING MOUNTED

COMMUNICATION SYSTEMS

TELECOMMUNICATIONS OUTLETS: MOUNT 18-INCHES AFF, UNO. AND WITHIN 8-INCHES OF ADJACENT RECEPTACLE WHERE DENOTED 'AC', MOUNT ABOVE COUNTER WHERE DENOTED 'C', MOUNT FLUSH IN CEILING

- TELECOMMUNICATIONS OUTLET WITH NO SUBSCRIPTS: EMPTY OUTLET BOX WITH BLANK WALLPLATE
- TELECOMMUNICATIONS OUTLET PROVIDE JACKS UNDER A COMMON FACEPLATE: X = QTY OF DATA JACKS
- TELECOMMUNICATIONS OUTLET MOUNTED IN FLOOR BOX (2) CEILING DROPS FOR OFCI WIRELESS ACCESS POINT. LOCATE IN DOUBLE GANG JUNCTION BOX ATTACHED TO THE
- BOTTOM OF THE JOIST. FLOOR MOUNTED TELECOMMUNICATIONS RACK

LARM CONTROL PANEL TCENTER OF DISPLAY 54-INCHES AFF	Œ	VOICE EVACUATION SPEAKER
LARM ANNUNCIATOR PANEL	D	FIRE ALARM MAGNETIC DOOR HOLDER MOUNT 74-INCHES AFF
CENTER OF DISPLAY 54-INCHES AFF	FS	WATER FLOW ALARM SWITCH
AL FIRE ALARM PULL STATION T 42-INCHES AFF	TS	TAMPER SWITCH
LARM AV DEVICES: MOUNT 94-INCHES AFF, UNO	⋖ FF	FIRE FIGHTERS TELEPHONE MOUNT 54-INCHES AFF
E DENOTED 'C', MOUNT FLUSH IN CEILING LARM BELL	\bigcirc	HEAT DETECTOR RATE-OF-RISE AND FIXED TEMPERATURE, 135 F
LARM VISUAL WARNING SIGNAL	\bigcirc	HEAT DETECTOR, RATE-OF-RISE AND FIXEDTEMPERATURE, 200 F
LARM BELL WITH VISUAL WARNING SIGNAL	•	HEAT DETECTOR, FIXED TEMPERATURE ONLY, 135
RE ALARM HORN WITH VISUAL WARNING SIGNAL		HEAT DETECTOR, FIXED TEMPERATURE ONLY, 200
DETECTOR - PHOTOELECTRIC TYPE (D = DUCT)	XXX	VIDEO CAMERA - CEILING
EDETECTOR - IONIZATION TYPE	H###	VIDEO CAMERA - WALL
DETECTOR - PHOTOELECTRIC TYPE	P	PAGING SPEAKER (CEILING MOUNTED)
	⊢₽	PAGING SPEAKER (WALL MOUNTED)
	Hic	PAGING TALKBACK STATION 42 INCHES AFF

GENERAL SYSTEMS NOTES **DIVISION 27 WORK**

(TYPICAL ALL SPECIAL SYSTEMS SHEETS)

DIVISION 26 WORK

GENERAL SYSTEMS NOTES

- . TELECOMMUNICATIONS OUTLETS: PROVIDE TWO-GANG BOX (2.25-INCH DEEP MINIMUM) WITH SINGLE-GANG STRAP MOUNT PLASTER RING AND 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING (EXCEPTION: VOICE-ONLY OR VIDEO-ONLY OUTLETS PER NOTE
- 2. TELECOMMUNICATIONS OUTLET INDICATED AS ROUGH IN ONLY (NO SUBSCRIPTS): INSTALL PER NOTE ABOVE, WITH BLANK 302SS SINGLE-GANG
- 3. VOICE-ONLY OR VIDEO-ONLY TELECOMMUNICATIONS OUTLET: PROVIDE SINGLE-GANG BOX WITH 1-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING.
- 4. MISCELLANEOUS LOW VOLTAGE OUTLETS (CALL STATIONS, HANDSETS, VOLUME CONTROL, MICROPHONE OUTLETS, SURFACE-MOUNT WALL SPEAKERS AND FIRE ALARM DEVICES): PROVIDE SINGLE-GANG BOX WITH 3/4-INCH CONDUIT STUBBED INTO ACCESSIBLE SPACE ABOVE FINISHED
- 5. INSULATED BUSHINGS: PROVIDE BUSHINGS ON ALL CONDUIT STUB UPS, INCLUDING BUT NOT LIMITED TO, OUTLETS FOR TELECOMMUNICATIONS, FIRE ALARM, SECURITY, ACCESS CONTROL, MASS NOTIFICATION, PUBLIC ADDRESS, ALL OTHER LOW VOLTAGE INTERCOMMUNICATIONS AND UNUSED STUB-UPS OR STUB-UPS INDICATED FOR FUTURE USE.
- 6. FLOOR BOXES CONTAINING TELECOMMUNICATIONS OUTLETS: FOR EACH LOW-VOLTAGE COMPARTMENT, ROUTE 1-INCH CONDUIT WITH PULL STRING UNDERFLOOR, UP NEAREST WALL, AND STUB INTO ACCESSIBLE SPACE ABOVE FINISHED CEILING. LABEL CONDUIT END 'FLOOR BOX'
- 7. SLEEVES FOR LOW VOLTAGE CABLES: PROVIDE 2-INCH SLEEVES UNLESS NOTED OTHERWISE. COORDINATE WITH PATH OF DUCTWORK AND GWB CEILING TO ENSURE ACCESSIBILITY, EXTEND SLEEVES AS REQUIRED. INSTALL ALL SLEEVES 4-INCHES ABOVE HIGHER CEILING OF TWO ADJACENT SPACES OR AT A HEIGHT OF 6-INCHES ABOVE BOTTOM OF HIGHER STRUCTURAL JOISTS IN ADJACENT EXPOSED STRUCTURE SPACES. REFER TO ROOM FINISH SCHEDULES AND REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND ROOMS WITHOUT CEILINGS. PROVIDE INSULATED BUSHINGS ON BOTH ENDS OF ALL SLEEVES, INCLUDING UNUSED SLEEVES. PROVIDE GROUT OR ESCUTCHEONS TO SECURE SLEEVES TO WALL. PROVIDE FIRE-RATED SLEEVES AT ALL FIRE-RATED WALLS AS INDICATED ON DRAWINGS.
- 8. PROVIDE ADDITIONAL CONDUIT, BOXES, CONDUCTORS AND OVERCURRENT PROTECTION FOR 120-VOLT BRANCH CIRCUITS NOT SPECIFICALLY COVERED UNDER DIVISION 26 WORK, BUT REQUIRED TO COMPLETE DIVISION 08 AND 28 WORK. DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO, POWER SUPPLIES FOR DOOR HARDWARE, ACCESS CONTROL, FIRE ALARM AND VIDEO SURVEILLANCE.
- 9. CARD READERS, ROUGH IN ONLY: PROVIDE EMPTY RECESSED SINGLE-GANG BOX WITH GASKETED BLANK COVERPLATE AND EMPTY 1-INCH CONDUIT STUBBED INTO NEAREST ACCESSIBLE SPACE ABOVE FINISHED CEILING OR JOIST SPACE OF ADJACENT EXPOSED STRUCTURE. LABEL CONDUIT END 'CARD READER'.
- 10. CAMERAS, ROUGH IN ONLY: PROVIDE EMPTY RECESSED SINGLE-GANG BOX WITH GASKETED BLANK COVERPLATE AND EMPTY 1-INCH CONDUIT STUBBED INTO NEAREST ACCESSIBLE SPACE ABOVE FINISHED CEILING OR JOIST SPACE OF ADJACENT EXPOSED STRUCTURE. LABEL CONDUIT END
- 11. PROVIDE WATERFALL DROPOUTS AT ALL CABLE TRAY LOCATIONS ABOVE WALL/FLOOR MOUNTED RACKS AND EQUIPMENT ENCLOSURES.
- 12. AUDIO VISUAL (A/V) SYSTEMS: PROVIDE RECESSED BOXES, CONDUIT AND PULL STRINGS FOR ALL SYSTEM COMPONENTS. SEE A/V SERIES OF DRAWINGS FOR REQUIREMENTS.

- (TYPICAL ALL SPECIAL SYSTEMS SHEETS)
- 1. TELECOMMUNICATIONS OUTLET IDENTIFICATION: PROVIDE OWNER-APPROVED LABELING SCHEME FOR ALL OUTLETS, INCLUDING FLOOR BOXES (IF APPLICABLE). CONSULT OWNER PRIOR TO SUBMITTING SHOP DRAWINGS, SUBMIT LABELING SCHEME.
- 2. FLOOR BOXES CONTAINING TELECOMMUNICATIONS OUTLETS: COORDINATE FLOOR BOX TYPE WITH DIVISION 26. PROVIDE MOUNTING BRACKETS AND PLATES FROM FLOOR BOX MANUFACTURER SUCH THAT
- ALL JACKS WITHIN BOXES ARE SECURELY MOUNTED AND LABELED.
- 3. PROVIDE SURFACE MOUNT ENCLOSURE AND BAFFLE FOR ALL SPEAKERS IN FINISHED SPACES WITH NO CEILINGS (EXPOSED STRUCTURE).
- 4. PROVIDE WIREGUARDS ON ALL CLOCKS IN GYMNASIUMS. 5. UTILIZE SLEEVES AND FIRE RATED SLEEVES AT RATED WALLS PROVIDED UNDER DIVISION 26 FOR INSTALLATION OF ALL LOW VOLTAGE CABLING. FOLLOW INDUSTRY STANDARDS TO MAINTAIN 40% FILL REQUIREMENTS IN ALL SLEEVES (SUPERSEDES NEC - DO NOT FILL SLEEVES TO CAPACITY). PROVIDE ADDITIONAL SLEEVES MEETING DIVISION 26 REQUIREMENTS AS
- 6. SYSTEM PANEL LOCATIONS: AUXILIARY SYSTEM PANELS, POWER SUPPLIES OR OTHER EQUIPMENT ENCLOSURES SHALL NOT BE LOCATED IN TELECOM ROOMS UNLESS NOTED OTHERWISE. IF DRAWINGS DO NOT DEPICT LOCATIONS FOR AUXILIARY COMPONENTS, CONSULT OWNER OR A/E FOR APPROVED LOCATIONS PRIOR TO EQUIPMENT INSTALL.
- 7. OWNER SHALL FURNISH AND INSTALL THE FOLLOWING: NETWORK SWITCHES AND SERVERS
- END-USER HARDWARE, INCLUDING PC's, LAPTOPS, CHARGING CARTS, VOICE-OVER IP (VoIP) HANDSETS AND SERVER, TELEPHONE SYSTEM SWITCH AND HANDSETS

GENERAL SYSTEMS NOTES DIVISION 28 WORK

- (TYPICAL ALL SPECIAL SYSTEMS SHEETS)
- PROVIDE MINIMUM CANDELA RATINGS FOR ROOMS WITH VISUAL NOTIFICATION APPLIANCESS AS FOLLOWS: <30'x30' = 30cd (75cd ON AXIS)
- <40'x40' = 60cd (75cd ON AXIS)>40'x40' = 110cd (75cd ON AXIS) INCREASE DEVICE RATINGS/SETTINGS WHEN LOCATED OFF-CENTER IN ROOMS TO MAINTAIN NFPA COVERAGE. VISUAL DEVICES IN CORRIDORS SHALL BE 15/75cd.
- VISUAL DEVICES LOCATED IN OTHER AREAS SHALL BE 110cd UNLESS NOTED
- 2. IN ADDITION TO DEVICES SHOWN, SEE SCHEDULE SHEETS FOR FIRE ALARM SYSTEM DEVICES CONNECTIONS TO MECHANICAL EQUIPMENT.
- 3. PROVIDE FIRE ALARM MONITORING OF ALL FLOW AND TAMPER SWITCHES.
- CONFIRM QUANTITIES AND LOCATION WITH DIVISION 21. 4. UTILIZE SLEEVES AND FIRE RATED SLEEVES AT RATED WALLS PROVIDED UNDER DIVISION 26 FOR INSTALLATION OF ALL LOW VOLTAGE CABLING. FOLLOW INDUSTRY STANDARDS TO MAINTAIN 40% FILL REQUIREMENTS IN ALL SLEEVES (SUPERSEDES NEC - DO NOT FILL SLEEVES TO CAPACITY). PROVIDE ADDITIONAL SLEEVES MEETING DIVISION 26 REQUIREMENTS AS
- 5. SYSTEM PANEL LOCATIONS: AUXILIARY SYSTEM PANELS, POWER SUPPLIES OR OTHER EQUIPMENT ENCLOSURES SHALL NOT BE LOCATED IN TELECOM ROOMS UNLESS NOTED OTHERWISE. IF DRAWINGS DO NOT DEPICT LOCATIONS FOR AUXILIARY COMPONENTS, CONSULT OWNER OR A/E PRIOR TO EQUIPMENT INSTALL.
- 6. DUCT SMOKE DETECTION: DETERMINE QUANTITY AND PLACEMENT OF DETECTORS REQUIRED FOR COVERAGE OF DUCTWORK BASED ON NFPA REQUIREMENTS. PROVIDE MECHANICAL EQUIPMENT FAN SHUTDOWN RELAY AT ALL DUCT DETECTORS. SEE HVAC PLANS FOR EQUIPMENT LOCATIONS. COORDINATE SHUTDOWN CONTROL WITH DIVISION 23.
- 7. FIRE-SMOKE DAMPERS: PROVIDE FIRE ALARM CONNECTION AND 120-VOLT POWER TO EACH FIRE/SMOKE DAMPER SHOWN ON HVAC PLANS. PROVIDE DEDICATED CIRCUIT TO DAMPERS, ROUTED THROUGH NORMALLY CLOSED FIRE ALARM RELAY, MOUNTED ON WALL IN NEAREST ELECTRICAL ROOM. COORDINATE WITH DAMPER MANUFACTURER FOR SPECIFIC DAMPER LOAD REQUIREMENTS. RELAY SHALL BE CONTROLLED BY FACP, SUCH THAT, ON GENERAL ALARM DAMPERS CLOSE. FIRE ALARM CONNECTION TO DAMPER SHALL BE A SUPERVISORY CIRCUIT MONITORING STATUS OF INTEGRAL SMOKE DETECTOR, AND SHALL PROVIDE REMOTE FIRE/SMOKE DAMPER RESET. FACP SHALL INITIATE A SUPERVISORY SIGNAL WHEN INTEGRAL DETECTOR GOES INTO ALARM. FIRE/SMOKE DAMPERS MAY BE GROUPED TOGETHER ON SUPERVISORY CIRCUITS TO SIMPLIFY WIRING. COORDINATE 20/1 BREAKERS. LABEL TYPED PANEL DIRECTORY 'FIRE/SMOKE DAMPERS -
- 8. INSTALL MAGNETIC DOOR HOLD OPEN DEVICES FURNISHED UNDER DIVISION
- 9. PROVIDE WIREGUARDS ON ALL FIRE ALARM STROBES AND HORN/STROBES IN
- 10. ACCESS CONTROL INTEGRATION: PROVIDE CONNECTIONS TO ALL ELECTRIFIED DOOR HARDWARE CONTROLLERS. REFER TO SPECIFICATIONS FOR DOOR HARDWARE SETS LISTED IN DOOR HARDWARE OR ACCESS CONTROL SPECIFICATIONS.

WHERE I

FO FIRE ALA

F MINI FIRE SMOKE

SMOKE SMOKE

CR ROUGH-IN LOCATION FOR FUTURE CARD READER



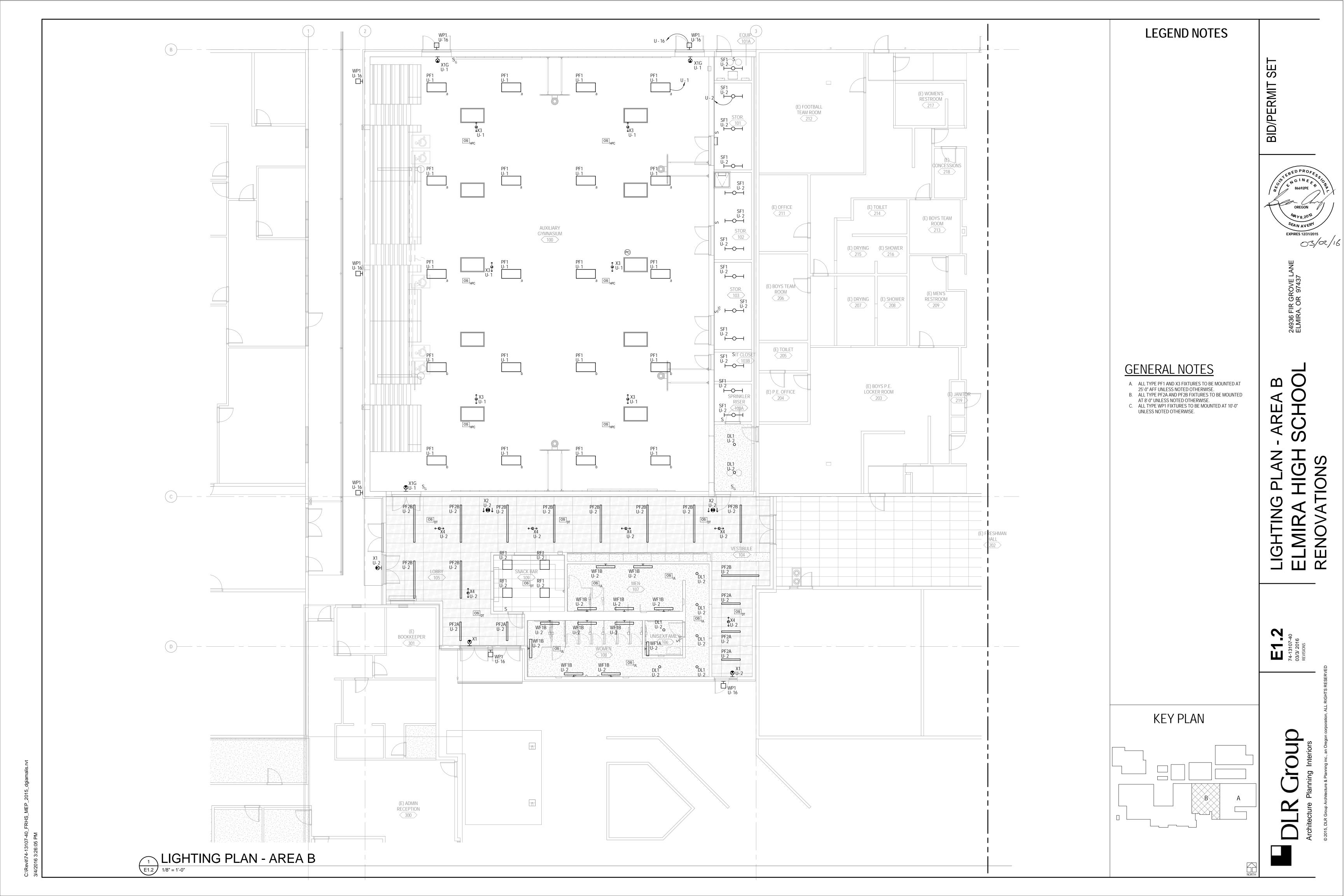
- A. BEFORE SUBMITTAL OF BID, THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE CONDITIONS OF ALL EXISTING SYSTEMS AND SERVICE CONNECTIONS, INCLUDING ALL NECESSARY PULL BOXES, PANELBOARDS, EQUIPMENT AND FEEDERS/BRANCH CIRCUITS RELATED TO THE WORK DEMOLITION AREAS, WHETHER INDICATED ON THE DRAWINGS OR NOT.
- STRIPPED AND REMOVED BACK TO THE SOURCE, EXCEPT WHEN LOCATED IN A EXISTING FLOOR SLAB NOT SCHEDULED FOR DEMOLITION. THESE UNUSED CONDUITS
 SHALL BE CUT OFF AND PLUGGED FLUSH WITH THE SLAB
- C. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SCHOOL'S OWNER REPRESENTATIVE FOR DIRECTIOSN CONCERNING THE SALVAGE OR RELOCATION OF REMOVED ITEMS INDICATED IN GENERAL NOTES B ABOVE. CONTRACTOR SHALL DISPOSE OF ALL ITEMS NOT SALVAGED
- SCHEDULE WITH THE SCHOOL'S OWNER REPRESENTATIVE ANY POWER OR SYSTEMS SHUTDOWN(S) REQUIRED BY THE DEMOLITION WORK. ALSO THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT ADEQUATE TEMPORARY AND/OR REROUTING SERVICES ARE PROVIDED TO AREAS NOT PART OF THIS DEMOLITION WORK, BUT ARE ADJACENT OR INSIDE THE DEMOLITION WORK AREA AND WHICH WILL BE AFFECTED BY A SHUTDOWN. THE ELECTRICAL CONTRACTOR SHALL PREPARE AND COORDINATE WITH THE OWNER REPRESENTATIVE AND FOLLOW LOCKOUT/TAGOUT PROCEDURES THROUGHOUT THE SHUTDOWN, DEMOLITION WORK AND TEMPORARY RECONNECTION PROCESS.
- COORDINATE PROVISIONS WITH, THE SCHOOL'S OWNER REPRESENTATIVE FOR THE REQUIREMENTS OF TEMPORARY
- MATERIALS (FLUORESCENT LIGHTING FIXTURE PCB'S, BALLASTS, AND THE LIKE) SHALL BE PERFORMED FOLLOWING THE REQUIREMENTS OF OSHA, EPA AND ANY OTHER AUTHORITY HAVING JURISDICTION IN APPLICABLE
- G. WHERE THE REMOVAL OF A DEVICE WOULD INTERRUPT CONTRACTOR SHALL PROVIDE ALL NECESSARY CONDUIT
- COORDINATE WITH CIVIL CONTRACTOR TO IDENTIFY
 CONDUITS THAT REQUIRE RELOCATION TO AVOID FOOTINGS

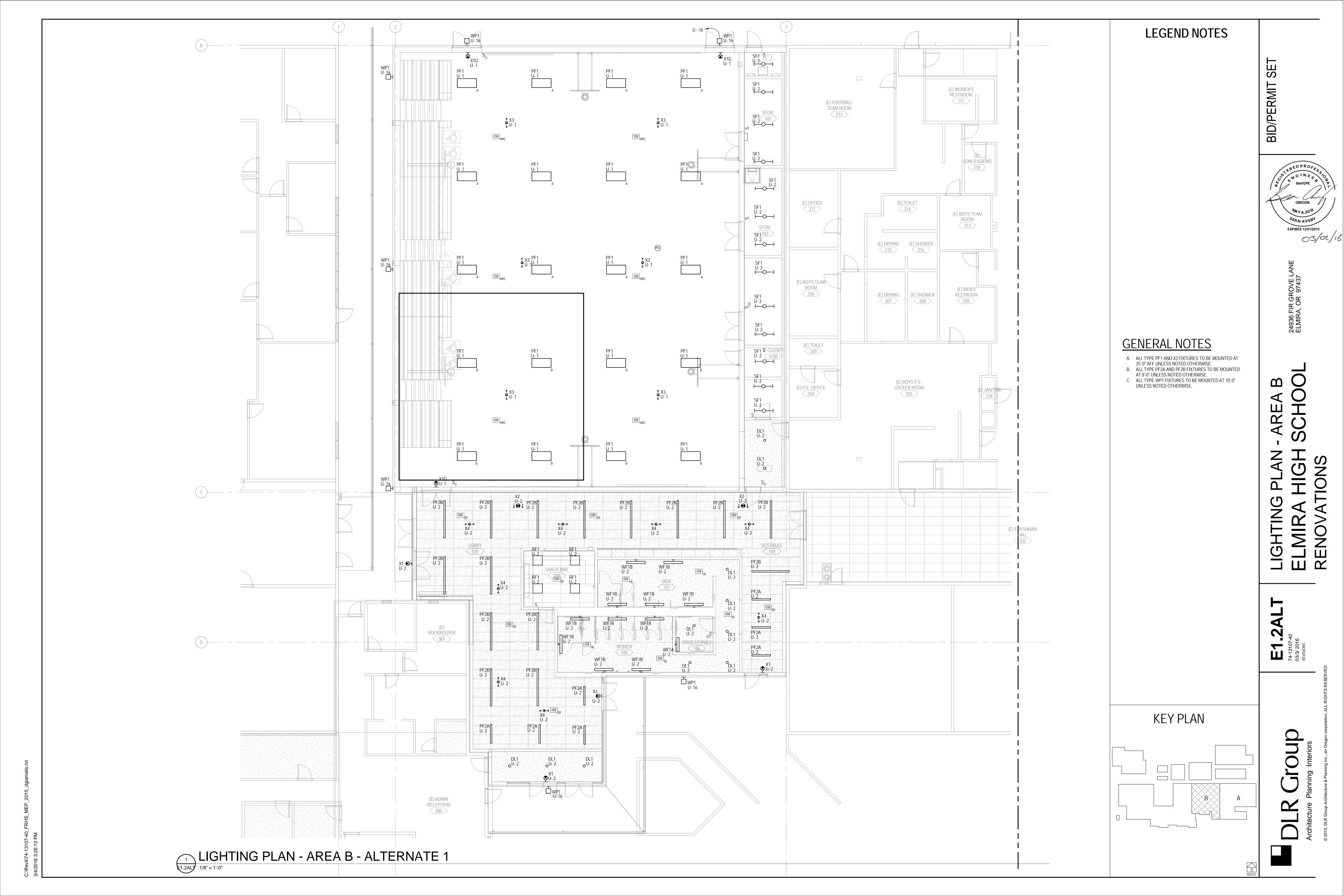


APPROXIMATE CONDUIT ROUTING OF (3) 2" CONDUITS FOR LOW VOLTAGE CABLING FROM NEW IDF 103B TO EXISTING IDF CLOSET IN EXISTING GYMNASIUM. CONFIRM EXACT ROUTING IN FIELD PRIOR TO INSTALLATION. PROVIDE EXPANSION/DEFLECTION COUPLING FOR PENETRATION BETWEEN BUILDINGS. SE **BID/PERMIT** PROVIDE (4) 2" CONDUITS UNDERGROUND FROM EXISTING BUILDING TO NEW IT ROOM 103B: (1) FOR LOW VOLTAGE CABLING, (1) FOR FIRE ALARM CABLING, AND (1) SPARE WITH PULL STRING. 3 SURFACE MOUNT CONDUITS TO EXISTING EXTERIOR STRUCTURE. PENETRATE CONDUITS INTO EXISTING CEILING SPACE. ROUTE (1) 2" CONDUIT FOR FIRE ALARM CABLING TO EXISTING ELECTRICAL ROOM. ROUTE (3) 2" CONDUIT FOR LOW VOLTAGE CABLING TO EXISTING IDF ROOM. CONFIRM IDF ROOM STUB OUT LOCATIONS WITH OWNER PRIOR TO INSTALLATION. APPROXIMATE CONDUIT ROUTING FOR FEEDER FROM EXISTING PANEL J IN EXISTING GYMNASIUM MEZZANINE STORAGE TO NEW PANEL U. CONFIRM EXACT ROUTING IN FIELD PRIOR TO INSTALLATION. PROVIDE EXPANSION/DEFLECTION COUPLING FOR PENETRATION BETWEEN BUILDINGS.

ELECTRICAL CONDUIT ROUTING

1" = 10'-0"





SE

LEGEND NOTES

CONTROL PANEL LOCATED IN STORAGE 102. SEE DETAIL 5, SHEET E6.1

CONFIRM FINAL LOCATION OF BACKBOARD CONTROL PANEL WITH OWNER PRIOR TO INSTALLATION. PROVIDE CONNECTIONS TO

PROVIDE (1) 4" DEEP JUNCTION BOX AND (1) 2" DEEP JUNCTION BOX AND BLANK COVER FOR FUTURE A/V CONNECTIONS AND POWER ABOVE BLEACHERS. CONFIRM FINAL HEIGHT AND LOCATION WITH OWNER PRIOR S

BID/PERMIT

PROVIDE JUNCTION BOX AND BLANK COVER FOR FUTURE CARD READER CONNECTIONS. CONFIRM FINAL HEIGHT AND LOCATION WITH OWNER

PROVIDE CONNECTION FOR SCOREBOARD. VERIFY FINAL CONNECTION TYPE AND HEIGHT WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DETAIL 5, SHEET E6.1 FOR MORE INFORMATION.

PROVIDE RECEPTACLE FOR WATER COOLER. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT REQUIREMENTS WITH WATER COOLER MANUFACTURER PRIOR TO INSTALLATION.

PROVIDE 30KVA, 480V TO 208V STEP DOWN TRANSFORMER.

9 PROVIDE 480V, 100A, 3 PHASE, 4 WIRE, 42 POSITION PANELBOARD.

10 PROVIDE L21-20R OUTLET FOR OFCI IT RACK. CONFIRM FINAL LOCATION

PROVIDE DUPLEX ABOVE CEILING FOR FAUCET LOW VOLTAGE TRANSFORMER. PROVIDE CONDUIT FROM CEILING TO SHROUD OF EACH LAVATORY IN THIS SPACE FOR LOW VOLTAGE CABLING BY DIVISION 23. VERIFIY LOCATION OF DUPLEX IN FIELD TO ENSURE THAT IT IS ACCESSIBLE FROM ACCESS PANEL PRIOR TO INSTALLATION.

12 PROVIDE SIEMENS NOTIFICATION AUDIO EXTENDER PANEL FOR FIRE ALARM DEVICES. PROVIDE CONNECTION TO EXISTING MAIN FIRE ALARM

SPACE FOR FUTURE SECURITY EQUIPMENT POWER CONNECTIONS.

14 PROVIDE JUNCTION BOX ABOVE CEILING SPACE FOR FUTURE CAMERA LOCATION. ROUTE CONDUIT FROM JUNCTION BOX TO ACCESSIBLE CEILING SPACE IN SNACK BAR 109. CONFIRM LOCATION OF BOX WITH

- A. ALL FIRE ALARM DEVICES ARE SHOWN ONLY TO INDICATE DESIGN INTENT AND APPROXIMATE LOCATIONS AND QUANTITY OF DEVICES FOR BIDDING PURPOSES. A COMPLETE FIRE ALARM SYSTEM DESIGN SHALL BE DELEGATED TO A LICENSED AND CERTIFIED FIRE ALARM CONTRACTOR WHO SHALL BE RESPONSIBLE FOR COMPLETE DESIGN IN COMPLIANCE WITH ALL GOVERNING CODES AND AUTHORITIES HAVING JURISDICTION (AHJ) REQUIREMENTS, INCLUDING FINAL PLACEMENT AND QUANTITIES OF DEVICES AT NO ADDITIONAL COST TO THE PROJECT CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS AS A DEFFERED SUBMITTAL TO AHJ FOR APPROVAL PRIOR TO SUBMITTING THEM TO THE
- B. VERIFY ALL DATA AND WAP LOCATIONS WITH OWNER

LEGEND NOTES

1 PROVIDE CONNECTION TO BACKBOARD MOTOR FROM BACKBOARD CONTROL PANEL LOCATED IN STORAGE 102. SEE DETAIL 5, SHEET E6.1 FOR ADDITIONAL INFORMATION.

CONFIRM FINAL LOCATION OF BACKBOARD CONTROL PANEL WITH

PROVIDE 4" DEEP JUNCTION BOX AND BLANK COVER FOR FUTURE AV CONNECTIONS. CONFIRM FINAL HEIGHT AND LOCATION WITH OWNER

RMIT

BID/PI

EXPIRES 12/31/2015

4 PROVIDE JUNCTION BOX AND BLANK COVER FOR FUTURE CARD READER CONNECTIONS. CONFIRM FINAL HEIGHT AND LOCATION WITH OWNER

PROVIDE CONNECTION FOR SCOREBOARD. VERIFY FINAL CONNECTION TYPE AND HEIGHT WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DETAIL 5, SHEET E6.1 FOR MORE INFORMATION.

PROVIDE RECEPTACLE FOR WATER COOLER. CONFIRM EXACT LOCATION AND MOUNTING HEIGHT REQUIREMENTS WITH WATER COOLER MANUFACTURER PRIOR TO INSTALLATION.

PROVIDE 208V, 100A, 3 PHASE, 4 WIRE, 42 POSITION PANELBOARD. PROVIDE 4#3,#8G FEEDER IN 1-1/4" CONDUIT FROM SECONDARY OF

8 PROVIDE 30KVA, 480V TO 208V STEP DOWN TRANSFORMER. PROVIDE 3#8,#10G PRIMARY FEEDER IN 3/4" CONDUIT FROM DESIGNATED BREAKER IN PANEL U. CONFIRM TRANSFORMER LABELING WITH OWNER.

PROVIDE 480V, 100A, 3 PHASE, 4 WIRE, 42 POSITION PANELBOARD. PROVIDE 4#1,#8G FEEDER IN 1-1/2" CONDUIT TO NEW 100A-3P CIRCUIT BREAKER IN PANEL J. SEE SHEET E0.1 FOR ADDITIONAL INFORMATION.

10 PROVIDE L21-20R OUTLET FOR OFCI IT RACK. CONFIRM FINAL LOCATION OF RACK WITH OWNER PRIOR TO INSTALLATION.

LAVATORY IN THIS SPACE FOR LOW VOLTAGE CABLING BY DIVISION 23. VERIFIY LOCATION OF DUPLEX IN FIELD TO ENSURE THAT IT IS ACCESSIBLE FROM ACCESS PANEL PRIOR TO INSTALLATION. 12 PROVIDE SIEMENS NOTIFICATION AUDIO EXTENDER PANEL FOR FIRE

ALARM DEVICES. PROVIDE CONNECTION TO EXISTING MAIN FIRE ALARM PANEL IN EXISTING ELECTRICAL ROOM. SEE SHEET E0.1 FOR ADDITIONAL

PROVIDE JUNCTION BOX WITH 120V BRANCH CIRCUIT ABOVE CEILING SPACE FOR FUTURE SECURITY EQUIPMENT POWER CONNECTIONS.

- INDICATE DESIGN INTENT AND APPROXIMATE LOCATIONS AND QUANTITY OF DEVICES FOR BIDDING PURPOSES. A COMPLETE FIRE ALARM SYSTEM DESIGN SHALL BE DELEGATED TO A LICENSED AND CERTIFIED FIRE ALARM CONTRACTOR WHO SHALL BE RESPONSIBLE FOR COMPLETE DESIGN IN COMPLIANCE WITH ALL GOVERNING CODES AND AUTHORITIES HAVING JURISDICTION (AHJ) REQUIREMENTS, INCLUDING FINAL PLACEMENT AND QUANTITIES OF DEVICES AT NO ADDITIONAL COST TO THE PROJECT. CONTRACTOR SHALL PROVIDE COMPLETE SHOP DRAWINGS AS A DEFFERED SUBMITTAL TO AHJ FOR APPROVAL PRIOR TO SUBMITTING THEM TO THE
- B. VERIFY ALL DATA AND WAP LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

COUNTERTOP AND BACKSPLASH -COUNTERTOP WITHOUT SEE ARCHITECTURAL CASEWORK DETAILS

ABOVE COUNTER RECEPTACLES

NO SCALE

PANEL L1A 120/208V, 3PH, 4W FED FROM T1A 10KAIC, 1-20-2011 **CABLE COLOR CODE:** PHASE A: BLACK PHASE B: RED PHASE C: BLUE **NEUTRAL: WHITE** GROUND: GREEN SWITCHBOARD, DISTRIBUTION PANEL AND PANELBOARD

> 120/208V, 3PH, 4W FED FROM T1A FEEDS PANEL L1A

SAFETY SWITCH OR ENCLOSED CIRCUIT BREAKER

EXAMPLE.

EXAMPLE.

LABELING DETAIL NOTES:

1. LABEL SHALL BE BLACK OR WHITE LAMINATED ACRYLIC OR MELAMINE WITH ENGRAVED LETTERING AND SELF-ADHESIVE BACK.

2. LETTERING SHALL BE WHITE ON BLACK OR BLACK ON WHITE BACKGROUND AND 3/8-INCH HIGH MINIMUM.

PROVIDE THE FOLLOWING INFORMATION ON SWITCHBOARD LABELS: SWITCHBOARD TAG SYSTEM VOLTAGE, PHASE, WIRE

SHORT CIRCUIT RATING, DATE CONDUCTOR COLORS

 ${\it 4.} \qquad {\it PROVIDE\ THE\ FOLLOWING\ INFORMATION\ ON\ DISTRIBUTION\ PANELBOARD\ AND\ PANELBOARD\ LABELS:}$ DISTRIBUTION PANELBOARD OR PANELBOARD TAG SYSTEM VOLTAGE, PHASE, WIRE SHORT CIRCUIT RATING, DATE

CONDUCTOR COLORS 5. PROVIDE THE FOLLOWING INFORMATION ON SWITCHBOARD AND DISTRIBUTION PANELBOARD BRANCH SWITCHES:

6. PROVIDE THE FOLLOWING INFORMATION ON TRANSFORMER LABELS:

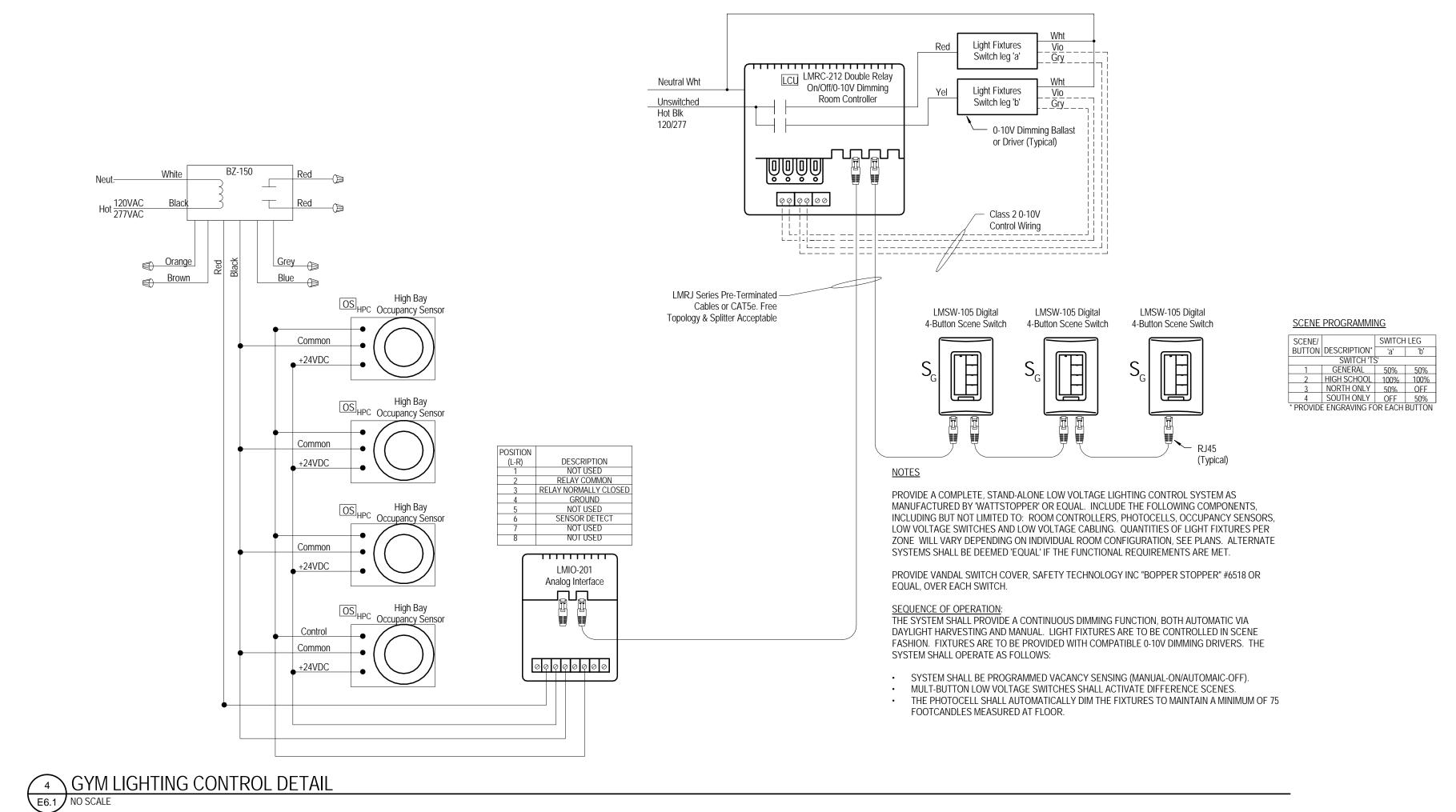
BRANCH SWITCH TAG (LOAD BEING SERVED)

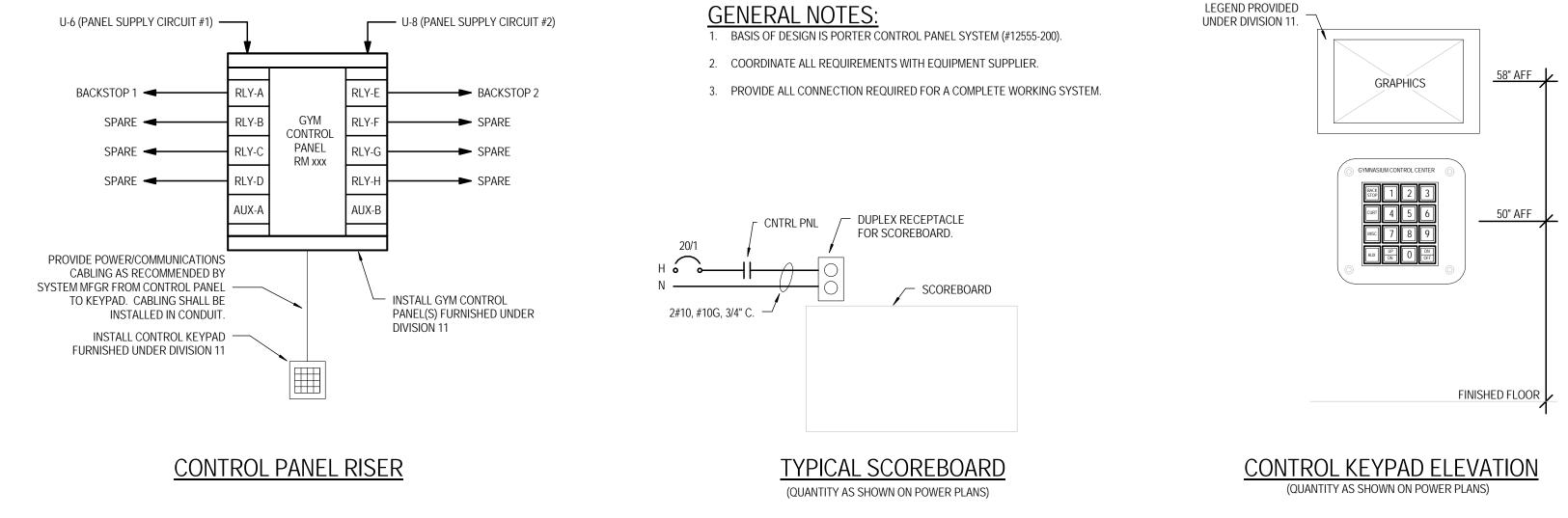
TRANSFORMER TAG SYSTEM PRIMARY AND SECONDARY VOLTAGE, WYE, DELTA, OR SINGLE PHASE

7. PROVIDE THE FOLLOWING INFORMATION ON SAFETY SWITCH OR CIRCUIT BREAKER ENCLOSURE LABELS: SYSTEM VOLTAGE, PHASE, WIRE FEEDS (LOAD BEING SERVED)

8. CONDUCTOR COLORS SHALL ALSO FOLLOW REQUIREMENTS LISTED IN SPECIFICATIONS SECTION 260553.

TYPICAL EQUIPMENT LABELING





GYMNASIUM CONTROL

NO SCALE

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTES:

MECHANICAL CONNECTION SCHEDULE NOTES:

DISCONNECTING MEANS.

THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. THE ACTUAL MANUFACTURER FOR THE EQUIPMENT MAY DIFFER. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR ACTUAL LOADS, CIRCUIT AMPACITY AND OVERCURRENT PROTECTION REQUIREMENTS PRIOR TO

MAKING ELECTRICAL CONNECTIONS.

LOCATE ALL DISCONNECTING MEANS PER NEC AND AHJ REQUIREMENTS. STARTERS ARE SEPARATELY MOUNTED UNLESS OTHERWISE NOTED.
ALL DISCONNECTS ARE 3 POLE UNLESS OTHERWISE NOTED.

1. POWER TO MOTORIZED DAMPER THROUGH UNIT.
2. FURNISH DUCT SMOKE DETECTOR FOR INSTALLATION BY DIVISION 23
CONTRACTOR. HVAC UNITS OVER 2000 CFM TO HAVE DUCT DETECTOR IN
RETURN AIR DUCT. COORDINATE WITH DIVISION 23 FOR QUANTITY
REQUIRED. PROVIDE CONNECTION AT HVAC UNIT FOR SHUTDOWN ON
ALARM AND CONNECTION TO THE FIRE ALARM CONTROL PANEL FOR

DETECTOR CONNECTION AS REQUIRED. ALL WIRING TO BE IN EMT CONDUIT.

POWER TO INDOOR UNIT TO BE CONNECTED THROUGH ASSOCIATED EXTERIOR UNIT. PROVIDE MOTOR RATED SWITCH FOR INDOOR UNIT

EXTERIOR UNIT, DISCONNECTING MEANS TO BE NEMA 3R RATED.

							LIGHTING FI	XTURE SCHEDULE
Typ Mai	e k Manufacturer	Model	Lamp	Ballast(s)	Electrical Data	Type Comments	Mounting	Description
DL1	PHILIPS LIGHTOLIER	C4L10-N-U-VB-Z10V + C4L-10-DL-35K-CCL-W-VB	3500K LED	0-10V DIMMING	277 V/1-13 VA	DOWNLIGHT	RECESSED	4" DOWNLIGHT, 1000 LUMEN OUTPUT, COMFORT CLEAR REFLECTOR, WHITE TRIM, UL LISTED
PF1	PHILIPS DAYBRITE	FBX24LL40-UNV + WG-FBX-2W	4000K LED	0-10V DIMMING	277 V/1-197 VA	HIGH BAY	SUSPENDED	2X4 HIGH BAY FIXTURE, 24000 LUMEN OUTPUT, WIDE DISTRIBUTION, CLEAR ACRYLIC LENS, WIRE GUARD ACCESSORY, UL LISTED
PF2	A PHILIPS LEDALITE	7505LBEQN-412EW	3500K LED	0-10V DIMMING	277 V/1-41 VA	LINEAR	PENDANT	4'-0" INDIRECT/DIRECT RECTALINEAR, 850 NONIMAL LUMENS PER FOOT, WHITE FINISH, FLAT ENDCAP, UL LISTED.
PF2I	B PHILIPS LEDALITE	7505LBEQN-412EW	3500K LED	0-10V DIMMING	277 V/1-82 VA	LINEAR	PENDANT	SAME AS TYPE PF1A EXCEPT 8'-0" IN LENGTH
RF1	PHILIPS DAYBRITE	2CAG30L835-2-DS-UNV-DIM	3500K LED	0-10V DIMMING	277 V/1-32 VA	2X2	RECESSED	2X2 LENSED TROFFER, 3000 LUMEN OUTPUT, DIFFUSE LENS, UL LISTED
SF1	PHILIPS DAYBRITE	LF4FR2035UDZT	3500K LED	0-10V DIMMING	277 V/1-18 VA	STRIP	SUSPENDED	LINEAR LED WALL MOUNT, ACRYLIC LENS, NOMINAL 10W AND 1000LM PER FOOT, UL LISTED
SF2	COOPER FAIL SAFE	HVL12-4-LD4-1-STD-35-O-EDC-1-S	3500K LED	0-10V DIMMING	277 V/1-27 VA	LINEAR	SURFACE	VANDAL RESISTANT LENSED LINEAR FIXTURE, 2790 LUMEN OUTPUT, OPAL SMOOTH LENS, UL WET LISTED.
WF1	A PRUDENTIAL	S1-LED35-LO-3-WA-TMW-UNV-SUR-X3-ND	3500K LED	INTEGRAL DRIVER	277 V/1-16 VA	LINEAR	WALL	3'-0" LINEAR WALL MOUNTED LED FIXTURE, 500 NOMINAL LUMENS PER FOOT, WHITE ACRYLIC LENS, WHITE FINISH, UL LISTED.
WF1	B PRUDENTIAL	S1-LED35-LO-4-WA-TMW-UNV-SUR-X3-ND	3500K LED	INTEGRAL DRIVER	277 V/1-20 VA	LINEAR	WALL	SAME AS TYPE WF1A EXCEPT 4'-0" IN LENGTH.
WP1	PHILIPS GARDCO	104L-2-35LA-NW-UNIV-NP-PCB	LED	INTEGRAL DRIVER	277 V/1-34 VA	WALL PACK	WALL 9'-0" AFF	WALL MOUNTED LED FIXTURE, 3500 LUMEN OUTPUT, TYPE 2 DISTRIBUTION, NATURAL ALUMINUM FINISH, INTEGRAL PHOTOCELL SENSOR, UL LISTEI
X1	LITHONIA	LQC-1-G	LED		277 V/1-5 VA	EXIT		LED EXIT SIGN. WHITE STEEL HOUSING.GREEN LETTERS.
X1G	LITHONIA	LQC-1-G + ELA-WG1	LED		277 V/1-5 VA	EXIT		SAME AS TYPE X1 EXCEPT WITH WIRE GUARD.
X2	LITHONIA	LQC-2-G	LED		277 V/1-5 VA	EXIT		SAME AS TYPE X1 EXCEPT WITH DOUBLE FACE.
Х3	SIGNTEX	MHE-AC-30-S-A-PEN	LED	INTEGRAL DRIVER	277 V/1-30 VA	EMERGENCY LIGHT	PENDANT	HIGH BAY LED EXIT PATHWAY LIGHT WITH INTEGRAL BATTERY DIAGNOSTIC, LINEAR THROW PATTERN

INTEGRAL DRIVER 277 V/1-7 VA EMERGENCY LIGHT RECESSED LED EXIT PATHWAY LIGHT WITH INTEGRAL BATTERY DIAGNOSTIC, LINEAR THROW PATTERN

			AIR	HANDLI	NG UN	IT ELECT	RICAL CONNECTIONS		
Equipment Served	Electrical Data	HP	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes
AHU-1	480 V/3-540 VA	7.5, 2	18 A	25 A	U	3,5,7	30A DISCONNECT FUSED AT 25A	3#10,#10G, 3/4"C	2,4
AHU-2	480 V/3-4155 VA	4	5 A	15 A	U	4,6,8	30A DISCONNECT FUSED AT 15A	3#12,#12G,3/4"C	

X4 SIGNTEX MLD-BB-7-W-DG

				PUM	IP ELEC	CTRICAL	CONNECTIONS		
Equipment Served	Electrical Data	HP	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes
P-1	480 V/3-4986 VA	3	6 A	15 A	U	9,11,13	30A FUSED AT 15A	3#12,#12G,3/4"C	
CP-1	120 V/1-323 VA	1/12	3 A	15 A	U1	29	MOTOR RATED SWITCH	2#12,#12G,3/4"C	

			E	EXHAUS	T FAN	ELECTRI	CAL CONNECTIONS		
Equipment Served	Electrical Data	HP	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes
EF-1	120 V/1-576 VA	1/6	6 A	15 A	U1	27	MOTOR RATED SWITCH	2#12,#12G,3/4"C	1,4
EF-2	120 V/1-81 VA	81W	1 A	15 A	U1	28	MOTOR RATED SWITCH	2#12,#12G,3/4"C	

		PANEL: U LOCATION: EQUIP. 101A BUS RATING: 225 A IN BREAKER: 100A					VOLTS PHASES WIRES		Wye				MOUNTING: SURFACT FED FROM: PANEL SCCR: 25,000 ENCLOSURE: Type 1		
СКТ	LOAD CLASSIFICATION	CIRCUIT DESCRIPTION	CKT BKR		A	A		3		:	Р	CKT BKR	CIRCUIT DESCRIPTION	LOAD N CLASSIFICATION	I CK
1	Lighting	GYMNASIUM LIGHTING	20	1	4134 VA	1771 VA					1	20	GENERAL LIGHTING	Lighting	2
3 5 7	Largest Motor	ROOFTOP AHU-1	25	3	180 VA	1385 VA	180 VA	1385 VA	180 VA	1385 VA	3	15	101 AHU-2	Motor	6 8
9 11 13	Motor	101 P-1	20	3	1662 VA		1662 VA	4000 VA		4000 VA	3	20	103A EWH-1	Misc. Mech.	10
15					1002 VA	4000 VA	2658 VA	170 VA			1	20	EXTERIOR WALL PACKS	Lighting	10
17	Motor	100 CF-1, CF-2, CF-3	15	3	2658 VA		2000 VA	170 VA	2658 VA			20	EXTENSION WALL FACING	Lighting	18
21					2030 VA										2
23															2
25															20
27															2
29															3
31															3:
33															3
35															3
37	Motor; Receptacle;				4962 VA										3
39	Appliance; Misc.	PANEL U1 VIA TX-X	50	3			5618 VA								4
41	Mech.; Elect.								4802 VA						4:
			OTAL LO					'3 VA ' A	1468 53						
_OAD (CLASSIFICATION		CONI	NEC	TED LOAI	D DE	MAND FA	CTOR	ESTIMATE	D DEMAN	ID		PANEL .	TOTALS	
Appliand	ce			100	00 VA		100.00%	,	100	0 VA					
Elect.					60 VA		100.00%			0 VA			CONNECTED LOAD:		
argest					O VA		125.00%			5 VA			ESTIMATED DEMAND:		
ighting					94 VA		125.00%			8 VA 90 VA			CONNECTED CURRENT: EMD CURRENT:		
Misc. Motor	ecn.		-		90 VA 83 VA		100.00%			30 VA 33 VA			EMID CURRENT:	04 A	
Recepta	cle				0 VA		100.00%			0 VA					

			WATER	HEAT	ER ELECT	FRICAL CONNECTIONS		
Equipment Served	Electrical Data	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes
EWH-1	480 V/3-12000 VA	18 A	20 A	U	10,12,14	30A NONFUSED DISCONNECT	3#12,#12G,3/4"C	
EWH-2	208 V/2-2500 VA	12 A	15 A	U1	22,24	MOTOR RATED SWITCH	2#12,#12G,3/4"C	

		(CONDEN	ISING (JNIT ELE	CTRICAL CONNECTIONS		
Equipment Served	Electrical Data	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes
CU-1	208 V/2-2288 VA	11 A	15 A	U1	30,32	MOTOR RATED SWITCH	2#12,#12G,3/4"C	3

	CEILING FAN ELECTRICAL CONNECTIONS Copy 1												
Equipment Served	Electrical Data	HP	MCA	MOCP	Panel	Circuit	Disconnect	Feeder	Notes				
CF-1	480 V/3-2658 VA	1	2 A	15 A	U	15,17,19	MOTOR RATED SWITCH	3#12,#12G,3/4"C					
CF-2	480 V/3-2658 VA	1	2 A	15 A	U	15,17,19	MOTOR RATED SWITCH	3#12,#12G,3/4"C					
CF-3	480 V/3-2658 VA	1	2 A	15 A	U	15,17,19	MOTOR RATED SWITCH	3#12,#12G,3/4"C					

		LOCATION: EQUIP. 101A BUS RATING: 125 A IN BREAKER: 100A		VOLTS: 120/208 Wye PHASES: 3 WIRES: 4									MOUNTING: SURFACE FED FROM: TX-X SCCR: 10,000 ENCLOSURE: Type 1			
СКТ	LOAD CLASSIFICATION	CIRCUIT DESCRIPTION	CKT BKR	P	,	4		В		С	Р	CKT BKR	CIRCUIT DESCRIPTION	LOAD CLASSIFICATION	СКТ	
1	Receptacle	100	20	1	720 VA	720 VA					1	20	100	Receptacle	2	
3	Receptacle	100	20	1			720 VA	1260 VA			1	20	101, 101A, 102, 103, 103A	Receptacle	4	
5	Misc. Mech.	100 WATER COOLER (NOTE 1)	20	1					370 VA	400 VA	2	20	102 BACKBOARD CONTROL	Motor	6	
7	Receptacle	109 COUNTERTOP	20	1	180 VA	400 VA					_		TOZ BACKBOAKS CONTROL	Wiotoi	8	
9	Receptacle	109 COUNTERTOP	20	1			180 VA	360 VA			1	20	109 COUNTERTOP	Receptacle	10	
11	Receptacle	109 COUNTERTOP	20	1					180 VA	500 VA	1	20	109 REFRIGERATOR	Appliance	12	
13	Appliance	109 REFRIGERATOR	20	1	500 VA	360 VA					1	20	107, 108	Receptacle	14	
15	Receptacle; Elect.	105	20	1			950 VA	370 VA			1	20	104 WATER COOLER (NOTE 1) Misc. Mech.	16	
17	Misc. Mech.	106, 107, 108 LAVS	20	1					450 VA	300 VA	1	20	100 SCOREBOARD	Elect.	18	
19	Elect.	100 SCOREBOARD	20	1	300 VA	180 VA					1	20	ROOFTOP	Receptacle	20	
21	Elect.	103B L21-20R	20	2			0 VA	1250 VA			2	20	109 EWH-2	Misc. Mech.	22	
23	Elect.	103B L21-20R	20	_					0 VA	1250 VA	_	20	109 EVVH-2	IVIISC. IVIECIT.	24	
25	Receptacle	109 COUNTERTOP	20	1	180 VA	400 VA					1	20	103B NAC	Elect.	26	
27	Motor	ROOFTOP EF-1	15	1			576 VA	81 VA			1	15	ROOFTOP EF-2	Motor	28	
29	Motor	103A CP-1	15	1					323 VA	1144 VA	2	15	ROOFTOP CU-1	Motor	30	
31						1144 VA					~	15	ROOFTOP CO-T	Motor	32	
33															34	
35															36	
37															38	
39															40	
41															42	
			AL LO TAL A			4 VA 5 A		7 VA 3 A	_	7 VA 1 A						
OAD C	LASSIFICATION		CON	NEC	TED LOAI) DE	MAND FA	CTOR	ESTIMATE	ED DEMAN	ID		PANEL TO	ALS		
Applianc	e			100	00 VA		100.00%	, b	100	00 VA						
Elect.				105	50 VA		100.00%	5	105	50 VA			CONNECTED LOAD: 157	748 VA		

	LOCATION: EQUIP. 101A BUS RATING: 125 A IN BREAKER: 100A					VOLTS PHASES WIRES			MOUNTING: SURFACE FED FROM: TX-X SCCR: 10,000 ENCLOSURE: Type 1					
LOAD CLASSIFICATION	CIRCUIT DESCRIPTION	CKT BKR			A	В		С		CKT P BKR		CIRCUIT DESCRIPTIO	LOAD CLASSIFICATION	СКТ
Receptacle	100	20	1	720 VA	720 VA					1	20	100	Receptacle	2
Receptacle	100	20	1			720 VA	1260 VA			1	20	101, 101A, 102, 103, 103A	Receptacle	4
Misc. Mech.	100 WATER COOLER (NOTE 1)	20	1					370 VA	400 VA	2	20	102 BACKBOARD CONTRO	DL Motor	6
Receptacle	109 COUNTERTOP	20	1	180 VA	400 VA					2	20	102 BACKBOARD CONTRO	DL WIOLOI	8
Receptacle	109 COUNTERTOP	20	1			180 VA	360 VA			1	20	109 COUNTERTOP	Receptacle	10
Receptacle	109 COUNTERTOP	20	1					180 VA	500 VA	1	20	109 REFRIGERATOR	Appliance	12
Appliance	109 REFRIGERATOR	20	1	500 VA	360 VA					1	20	107, 108	Receptacle	14
Receptacle; Elect.	105	20	1			950 VA	370 VA			1	20	104 WATER COOLER (NOT	E 1) Misc. Mech.	16
Misc. Mech.	106, 107, 108 LAVS	20	1					450 VA	300 VA	1	20	100 SCOREBOARD	Elect.	18
Elect.	100 SCOREBOARD	20	1	300 VA	180 VA					1	20	ROOFTOP	Receptacle	20
Elect.	103B L21-20R	20	2			0 VA	1250 VA	0 VA	1250 VA	2	20	109 EWH-2	Misc. Mech.	22 24
Receptacle	109 COUNTERTOP	20	1	180 VA	400 VA			OVA	1230 VA	1	20	103B NAC	Elect.	26
Motor	ROOFTOP EF-1	15	1	100 771	400 77	576 VA	81 VA			1		ROOFTOP EF-2	Motor	28
Motor	103A CP-1	15	1			370 VA	OT VA	323 VA	1144 VA		10	11001101 21-2	IVIOLOI	30
WOTO	1000 01 -1	13	'		1144 VA			323 VA	1144 VA	2	15	ROOFTOP CU-1	Motor	32
														34
														36
														38
														40
														42
		AL LO			4 VA 3 A		7 VA 3 A	_	7 VA A					
LASSIFICATION		CON	NEC	TED LOA	D DEI	MAND FA	CTOR	ESTIMATE	D DEMAN	D		PANEL	TOTALS	
e				00 VA		100.00%			00 VA					
~h				50 VA		100.00%			50 VA			CONNECTED LOAD:		
ch.				90 VA 88 VA		100.00%			00 VA 68 VA			ESTIMATED DEMAND: CONNECTED CURRENT:		
				10 VA		100.00%			0 VA			EMD CURRENT:		