PROJECT DATA

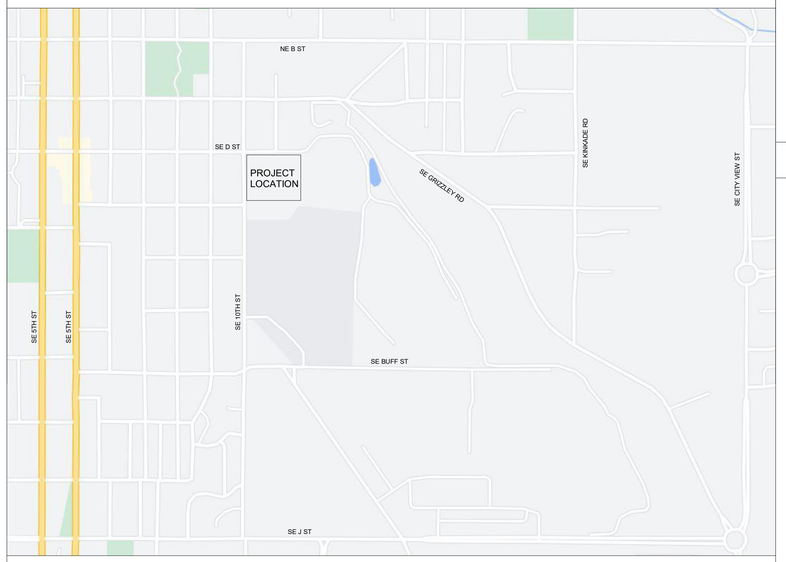
PROJECT ADDRESS:	215 SE 10TH STREET, MADRAS, OR 97741
TAX LOT:	111312BA04200
PARCEL AREA:	354,578.4 SF (8.14 ACRES)
ZONING:	OS
BUILDING USE(S):	EDUCATION
BUILDING CODE:	2022 OREGON STRUCTURAL SPECIALTY CODE 2021 OREGON EXISTING BUILDING CODE
OCCUPANCY GROUP(S):	EDUCATION (E)
CONSTRUCTION TYPE:	VB
BUILDING AREA:	54,915 SF
STORIES:	1
FIRE SPRINKLER:	YES
SEWER DISTRICT:	THE CITY OF MADRAS UTILITIES DEPARTMENT
WATER SOURCE:	THE CITY OF MADRAS UTILITIES DEPARTMENT
POWER SOURCE:	CENTRAL ELECTRIC CO-OP, INC.

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

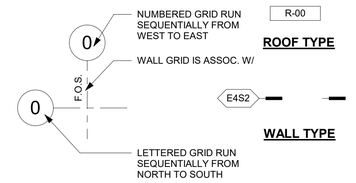
215 SE 10TH STREET, MADRAS, OREGON 97741

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

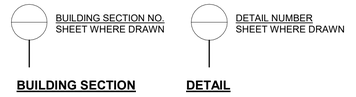
VICINITY MAP



ARCHITECTURAL SYMBOLS



GRID LINES
GRID LINES SHOWS STRUCTURAL BAYS



BUILDING SECTION **DETAIL**

DOOR NO. **WINDOW TYPE** **LOUVER TYPE**

ROOM NUMBER **NORTH ARROW**

ABBREVIATIONS

AB	ANCHOR BOLT	NO	NUMBER
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
AL	ALUMINUM	OC	ON CENTER
BD	BOARD	OD	OVERFLOW DRAIN
BFF	BELOW FINISHED FLOOR	OFCI	OWNER FURNISHED / CONTRACTOR INSTALLED
BLDG	BUILDING	OFOI	OWNER FURNISHED / OWNER INSTALLED
BO	BOTTOM OF	OPG	OPENING
CLG	CEILING	OVHD	OVERHEAD
CMU	CONCRETE MASONRY UNIT	PL	PLATE
CONC	CONCRETE	PPM	PRE-PAINTED METAL
CONT	CONTINUOUS	R	RISER
DIA	DIAMETER	RAD	RADIUS
DIM	DIMENSION	RD	ROOF DRAIN
DN	DOWN	REF	REFERENCE
DWG	DRAWING	REINF	REINFORCING
EA	EACH	REQ	REQUIREMENT
ELEV	ELEVATION	SEC	SECTION
EQ	EQUAL	SHTNG	SHEATHING
EXP	EXPANSION	SHT	SHEET
FD	FLOOR DRAIN	SIM	SIMILAR
FE	FIRE EXTINGUISHER	SPEC	SPECIFICATION
FF	FINISHED FLOOR	SQ	SQUARE
FIN	FINISH	STD	STANDARD
FOB	FACE OF BRICK	STL	STEEL
FOC	FACE OF CONCRETE	STRL	STRUCTURAL
FOF	FACE OF FOUNDATION	TEL	TELEPHONE
FOS	FACE OF STUD	TFCI	TENANT FURNISHED / CONTRACTOR INSTALLED
FT	FOOT	TFTI	TENANT FURNISHED / TENANT INSTALLED
GA	GAUGE	TO	TOP OF
GALV	GALVANIZED	TOB	TOP OF BRICK
GYP	GYPSUM	TOC	TOP OF CURB
GWB	GYPSUM WALL BOARD	TOW	TOP OF WALL
HB	HOSE BIB	TYP	TYPICAL
HM	HOLLOW METAL	UNO	UNLESS OTHERWISE NOTED
HR	HOUR	VIF	VERIFY IN FIELD
ID	INSIDE DIAMETER	W/	WITH
INSUL	INSULATION	W/O	WITHOUT
JT	JOINT	WD	WOOD
MAX	MAXIMUM	WP	WATERPROOF
MTL	METAL	WR	WATER RESISTANT
MFR	MANUFACTURER	WT	WEIGHT
MIN	MINIMUM		
MIR	MIRRORED		
NC	NON-COMBUSTIBLE		
NIC	NOT IN CONTRACT		

GENERAL NOTES

1. FIELD VERIFY ALL DIMENSIONS AND LAYOUT PRIOR TO PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES. FAILURE TO REPORT ANY DISCREPANCIES WITHIN THESE CONSTRUCTION DOCUMENTS TO THE ARCHITECT WILL NOT BE GROUNDS FOR ADDITIONAL COST OR CHANGE ORDERS.
2. "PROVIDE" MEANS "FURNISH AND INSTALL."
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS (UNLESS OTHERWISE NOTED), AND WORKMANSHIP IN ACCORDANCE WITH FEDERAL, STATE, CITY AND LOCAL BUILDING CODES AND THEIR REQUIREMENTS.
4. DO NOT SCALE THE DRAWINGS.

BID ADD-ALTERNATES

1. RTU REPLACEMENT
2. RESTROOM REMODELS
   A. BOYS RESTROOM AT NE HALLWAY (MECHANICAL EXHAUST FAN WORK IS BASE BID)
   B. GIRLS RESTROOM AT NE HALWAY (MECHANICAL EXHAUST FAN WORK IS BASE BID)
   C. UNISEX RESTROOM AT SOUTH END OF CENTRAL HALLWAY

PROJECT TEAM

OWNER:
JEFFERSON COUNTY SCHOOL DISTRICT 509J
445 SE BUFF STREET
MADRAS, OR, 97741
CONTACT: SIMON WHITE
541.279.1126

OWNER'S MANAGING CONSULTANT:
TILLER'S SCHOOLHOUSE CONSULTING
21464 HYDE LANE
BEND, OR, 97701
CONTACT: MIKE TILLER
541.550.9431

GENERAL CONTRACTOR:
TBD

ARCHITECT:
BLRB ARCHITECTS
721 SW INDUSTRIAL, SUITE 130
BEND, OR, 97702
CONTACT: HEIDI SLAYBAUGH
541.330.6506

MECHANICAL, ELECTRICAL, PLUMBING, & STRUCTURAL ENGINEER:
MORRISON-MAIERLE
1001 SW DISK DRIVE, SUITE 110
BEND, OR, 97702
OFFICE LEADER CONTACT: ERIC J. WEBBER
MECHANICAL CONTACT: DOUG DOWNIE
ELECTRICAL CONTACT: GARTH STEVENS
PLUMBING CONTACT: PATRICK HONSINGER
541.699.5434

ROOF CONSULTANT:
A-TECH/ NORTHWEST, INC.
2501 NW GERKE RD.
PRINEVILLE, OR 97754
CONTACT: DAVID ANDERSON
503.628.2882

CIVIL ENGINEER & SURVEYOR:
HWA CIVIL ENGINEERING, SURVEYING, AND PLANNING
62930 O.B. REILY RD. SUITE 100
BEND, OR 97703
CONTACT: GRANT HARDGRAVE
541.389.9351

SHEET INDEX

/saj/ Architecture
BEND / PORTLAND

Stamp

DRAWING REVISIONS
Description | Date
1

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: TITLE SHEET / GENERAL INFORMATION
Drawn By: LCG
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
A0.01

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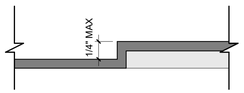
SAJ ARCHITECTURE

ACCESSIBILITY CODE NOTES

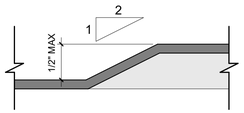
1. THE INFORMATION ON THIS SHEET IS PROVIDED AS A MEANS TO GRAPHICALLY IDENTIFY THE MOST COMMON DIMENSIONS, CLEARANCES, AND MOUNTING HEIGHTS REQUIRED. IT IS NOT FEASIBLE FOR ALL OF THE ADDITIONAL GRAPHIC AND NON-GRAPHIC INFORMATION INCLUDE IN ANSI ICC A11.7.1-2009: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, TO BE INCLUDED ON THIS SHEET. THEREFORE, THE CONTRACTOR SHALL REFER TO ANSI A117.1-2009 AND BE RESPONSIBLE FOR ALL REQUIRED INFORMATION INCLUDED THEREIN.
2. VERIFY ACCESSORY SIZE WITH MANUFACTURER TO ENSURE CONFORMANCE WITH ADA MOUNTING HEIGHTS. COORDINATE THE INSTALLATION OF ALL PLUMBING FIXTURES AND ACCESSORIES. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. DIMENSIONS TO TOILET ROOM ACCESSORIES ARE TO THE HIGHEST PORTION OF THE OPENING OR OPERATING DEVICE.
4. PLACE TELEPHONE DEVICES AT 44" ABOVE FINISH FLOOR.
5. PROVIDE BLOCKING WITHIN WALL AS REQUIRED FOR MOUNTING FIXTURES.
6. PROVIDE GYPSUM BOARD WRAP BEHIND FIXTURES AT WALLS DESIGNATED ON FLOOR PLANS AS FIRE-RATED, SEE WALL TYPES.
7. EDGE OF ACCESSIBLE SHOWER UNITS SHALL BE FLUSH WITH THE FINISHED SURFACE OF ADJACENT FLOORING.
8. THIS DRAWING ONLY SHOWS WALL-MOUNTED TOILET FIXTURES. SUBSTITUTE FLOOR-MOUNTED TOILET FIXTURES WHERE INDICATED IN BATHROOM ELEVATIONS.

ACCESSIBILITY CODE LEGEND

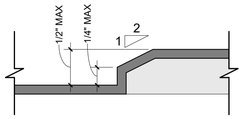
- PROVIDE BLOCKING IN FRAMED WALLS TO 6" MIN. BEYOND EDGES OF ITEM MOUNTED (TYP)
- DIRECTION OF TRAVEL OR APPROACH
- BOUNDARY OF CLEAR FLOOR SPACE OR MANEUVERING CLEARANCE
- WALL, FLOOR, CEILING, OR OTHER ELEMENT CUT IN SECTION OR PLAN
- ℄ CENTERLINE



CHANGES IN LEVEL - VERTICAL



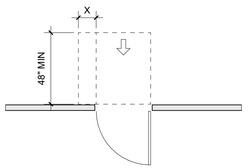
CHANGES IN LEVEL - BEVELED



CHANGES IN LEVEL - VERTICAL AND BEVELED

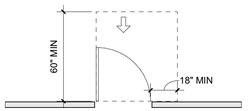
ACCESSIBLE ROUTE - CHANGE IN LEVEL
N.T.S.

PUSH SIDE



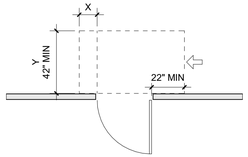
NOTE: X = 12 INCHES IF BOTH A CLOSER AND LATCH ARE PROVIDED.

PULL SIDE



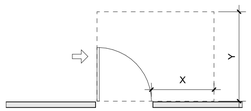
(A) FRONT APPROACHES FOR SWINGING DOORS

PUSH SIDE



NOTE: X=12 INCHES MINIMUM AND Y=48 INCHES MINIMUM IF BOTH A CLOSER AND A LATCH ARE PROVIDED.

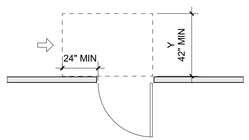
PULL SIDE



NOTE: X=36 INCHES MIN, IF Y=60 INCHES; X=42 INCHES MIN, IF Y=54 INCHES

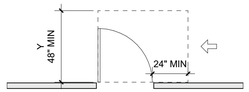
(B) HINGE SIDE APPROACHES FOR SWINGING DOORS

PUSH SIDE



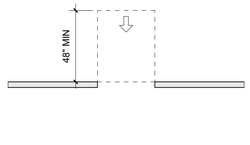
NOTE: Y= 48 INCHES MINIMUM IF A CLOSER IS PROVIDED.

PULL SIDE

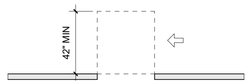


NOTE: Y=54 INCHES MINIMUM IF DOOR HAS A CLOSER.

(C) LATCH SIDE APPROACHES FOR SWINGING DOORS



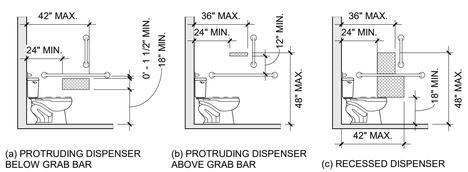
(D) FORWARD APPROACH AT DOORWAY WITHOUT DOOR



(E) SIDE APPROACH AT DOORWAY WITHOUT DOOR

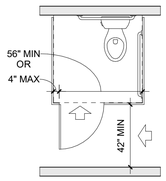
NOTE: ALL DOORS IN ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES.

MANEUVER CLEARANCES AT MANUAL SWING DOORS AND DOORWAYS WITHOUT DOORS
N.T.S.

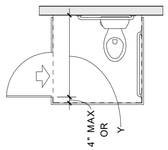


(a) PROTRUDING DISPENSER BELOW GRAB BAR
(b) PROTRUDING DISPENSER ABOVE GRAB BAR
(c) RECESSED DISPENSER

ACCESSIBILE DISPENSER OUTLET LOCATIONS
N.T.S.

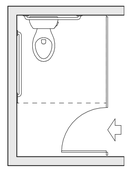


DOOR LOCATION AT FRONT PARTITION



Y = 52" MIN, IF WALL HUNG FIXTURE;
Y = 55" MIN, IF FLOOR MOUNTED FIXTURE

DOOR LOCATION AT SIDE PARTITION

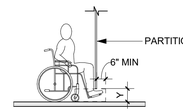


DOOR SHALL NOT SWING INTO THE REQUIRED CLEAR FLOOR SPACE OF THE COMPARTMENT

DOOR LOCATION AT END ROW TOILET COMPARTMENT

TOE CLEARANCE REQUIRED FOR FRONT PARTITION AND AT LEAST ONE SIDE PARTITION, EXCLUDING SUPPORT MEMBERS.

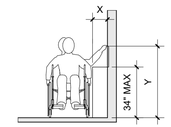
EXCEPTIONS:
1. TOE CLEARANCE AT FRONT PARTITION IS NOT REQUIRED IF:
   62" MIN COMPARTMENT DEPTH WITH WALL HUNG FIXTURE
   65" MIN COMPARTMENT DEPTH WITH A FLOOR MOUNTED FIXTURE
2. TOE CLEARANCE AT SIDE PARTITION IS NOT REQUIRED IF 66" MIN COMPARTMENT WIDTH



Y=9" MIN IF ADULT
Y=12" MIN IF CHILD

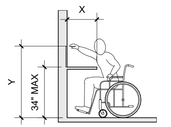
PARTITION TOE CLEARANCE - SIM FOR URINAL PARTITIONS

ACCESSIBLE TOILET COMPARTMENTS
N.T.S.



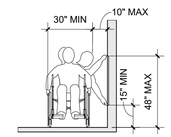
Y = 46" MAX, IF X = 24" MAX
Y = 48" MAX, IF X = 10" MAX

OBSTRUCTED HIGH AND LOW SIDE REACH LIMITS

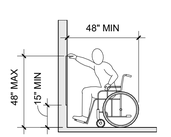


Y = 44" MAX, IF X = 25" MAX
Y = 48" MAX, IF X = 20" MAX

OBSTRUCTED HIGH AND LOW FRONT REACH LIMITS

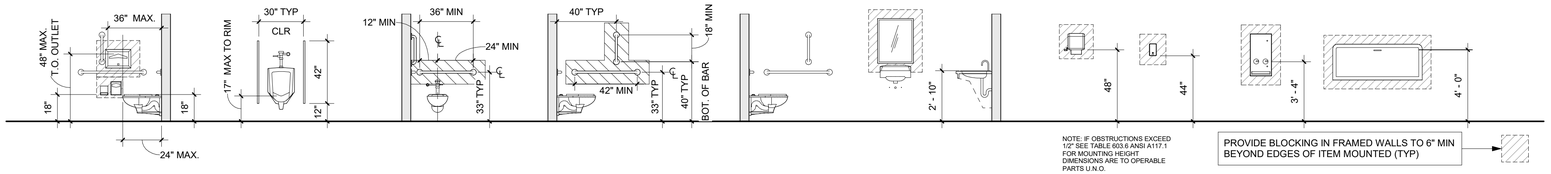


UNOBSTRUCTED HIGH AND LOW SIDE REACH LIMITS



UNOBSTRUCTED HIGH AND LOW FRONT REACH LIMITS

ACCESSIBLE REACH RANGES
N.T.S.



NOTE: IF OBSTRUCTIONS EXCEED 1/2" SEE TABLE 603.6 ANSI A117.1 FOR MOUNTING HEIGHT DIMENSIONS ARE TO OPERABLE PARTS U.N.O.

PROVIDE BLOCKING IN FRAMED WALLS TO 6" MIN BEYOND EDGES OF ITEM MOUNTED (TYP)

ACCESSIBLE RESTROOM TOILET MOUNTING HEIGHTS
N.T.S.

/saj/ Architecture
BEND / PORTLAND

Stamp

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: ACCESSIBILITY AND CODE INFO DIAGRAMS
Drawn By: Author
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
AC0.03

SAJ ARCHITECTURE

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REMOVAL KEY NOTES

1. SAWCUT AND REMOVE EXISTING PCC PAVEMENT AND AGGREGATE AS SHOWN
2. SAWCUT AND REMOVE EXISTING HMAC PAVEMENT AND AGGREGATE AS SHOWN
3. SAWCUT AND REMOVE EXISTING CURB
4. REMOVE STAIRS AND LANDING
5. REMOVE HANDRAIL
6. REMOVE PLANTER BLOCK WALL
7. RELOCATE STOP SIGN
8. RELOCATE WATER METER (APPROXIMATE METER LOCATION SHOWN)
9. RELOCATE CATCH BASIN
10. RELOCATE ACCESSIBLE SIGN

GENERAL SURVEY NOTES

1. PROJECT SITE IS LOCATED IN SECTION 12, TOWNSHIP 11 SOUTH, RANGE 13 EAST, WILLAMETTE MERIDIAN, JEFFERSON COUNTY, OREGON.
2. TOPOGRAPHIC SURVEY INFORMATION DEPICTED HEREIN IS FROM SURVEY PREPARED BY HWA IN APRIL 2023. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, INCLUDING POTHOLING OF EXISTING UTILITIES AS NECESSARY TO VERIFY LOCATION, DEPTH, AND SIZE.
3. WITH REGARD TO UNDERGROUND UTILITIES, INFORMATION FROM CITY OF MADRAS AND UTILITY LOCATE MARKINGS WERE COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP A VIEW OF THOSE UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY AND RELIABLY DEPICTED. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, EXCAVATION MAY BE NECESSARY.
4. THIS PROPERTY IS SUBJECT TO ALL EASEMENTS, RESTRICTIONS, AND RIGHT-OF-WAYS OF RECORD AND THOSE COMMON AND APPARENT ON THE LAND.
5. THE COORDINATES SHOWN ARE BASED ON THE CENTRAL OREGON COORDINATE SYSTEM. ELEVATIONS SHOWN ARE BASED ON THE VERTICAL DATUM NGVD29 AND WERE DERIVED FROM PUBLISHED CENTRAL OREGON COORDINATE SYSTEM BENCHMARKS.

CONTACT INFORMATION

OWNER / DEVELOPER: JEFFERSON COUNTY SCHOOL DISTRICT
445 SE BUFF STREET
MADRAS, OR 97741
PH: (541)-475-6192

SURVEYOR / ENGINEER: HWA, INC.
62930 O.B. RILEY ROAD, SUITE 100
BEND, OR 97703
PH: (541) 389-9351

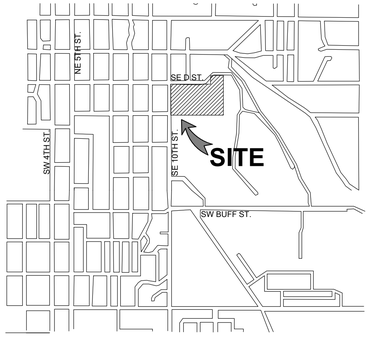
ARCHITECT: BLRB ARCHITECTURE
721 SW INDUSTRIAL WAY, SUITE 130
BEND, OR 97702
PH: (541) 330-6506

REMOVAL GENERAL NOTES

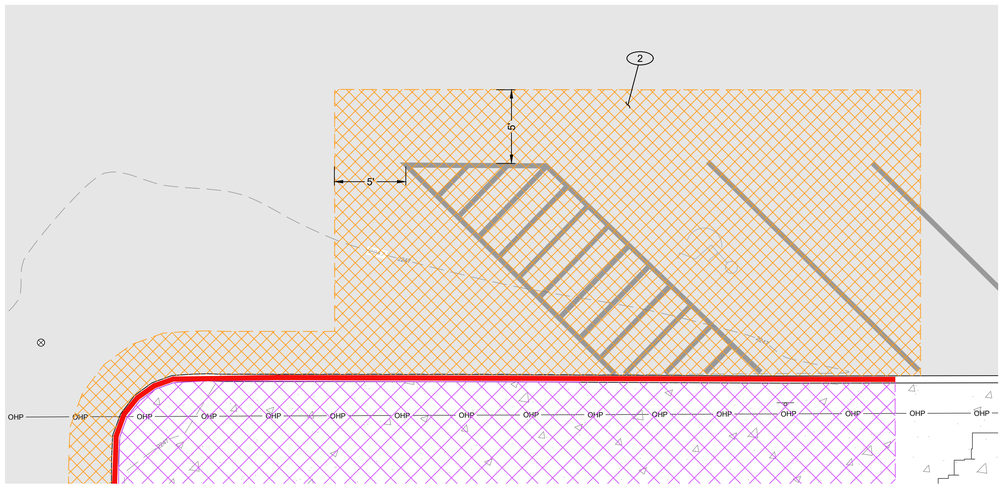
1. MINIMUM SAWCUT REMOVAL SHOWN - ACTUAL SAWCUT LINES TO FOLLOW EXISTING CONCRETE SCORE LINES (TYPICAL FOR ALL CONCRETE REMOVAL).

LEGEND

- PROPERTY LINE
- ASSESSOR'S TAX LOT LINE (APPROX. LOCATION)
- CURB LINE
- GAS — UNDERGROUND GAS LINE
- OHP — OVERHEAD POWER LINE
- HMAC PAVEMENT
- PCC PAVEMENT
- 3641 — CONTOUR LINE, 1' INTERVAL
- 3645 — CONTOUR LINE, 5' INTERVAL
- CB — CATCH BASIN
- WATER METER
- WATER VALVE
- SIGN
- FLAG POLE
- DECIDUOUS TREE (SIZE AS NOTED)
- PINE TREE (SIZE AS NOTED)
- SHRUB
- EXISTING CURB/WALL TO BE REMOVED
- EXISTING HANDRAIL TO BE REMOVED
- EXISTING PCC PAVEMENT TO BE REMOVED
- EXISTING HMAC PAVEMENT TO BE REMOVED

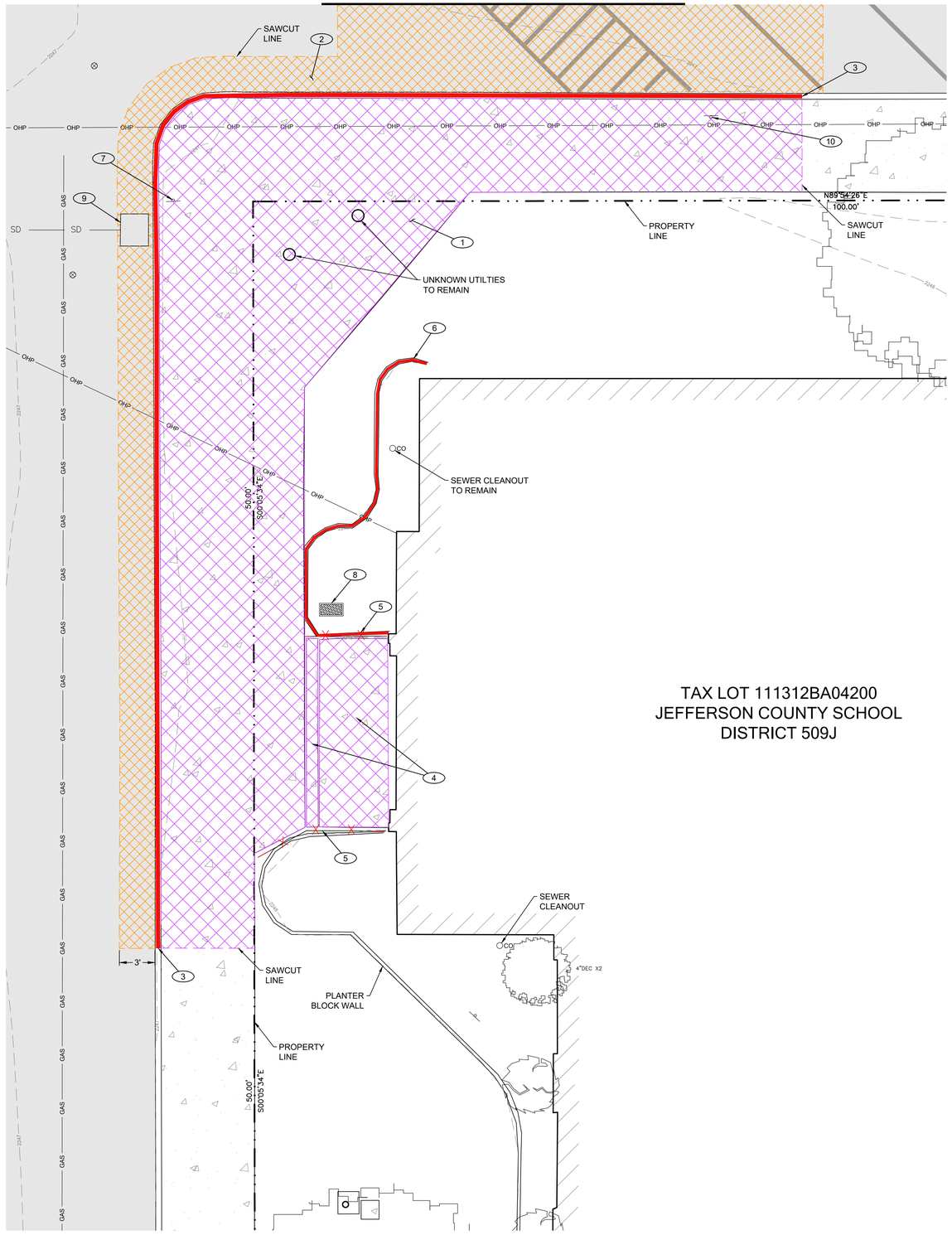


VICINITY MAP
SCALE: 1"=1000'
TAXLOT: 11-13-12-BA-04200



ADA DEMOLITION DETAILS
SCALE: 1"=5'

SEE THIS SHEET FOR ADA DEMOLITION DETAILS



TAX LOT 111312BA04200
JEFFERSON COUNTY SCHOOL DISTRICT 509J

0 2.5 5 10 15
SCALE: 1" = 5'

N

0 2.5 5 10 15
SCALE: 1" = 5'

N

/saj/ Architecture

REGISTERED PROFESSIONAL ENGINEER
92977PE
OREGON
JULY 13, 1984
GRANT HARDGRAVE
Stamp

DRAWING REVISIONS

No.	Description	Date
A		

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: EXISTING CONDITIONS AND REMOVAL PLAN
Drawn By: MWB
Date: SEPTEMBER 11, 2023
Project No. 22140
Revised:
Sheet No. C1.01

BLRB ARCHITECTS, P.S.

GENERAL GRADING NOTES

1. ALL GRADING SHALL BE IN CONFORMANCE WITH THE CURRENT 2019 OREGON STRUCTURAL SPECIALTY CODE AND WITH THE C.O.M. STANDARDS.
2. EXCAVATORS SHALL COMPLY WITH THE PROVISIONS OF OAR 952-001-0090.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT "UNDERGROUND LOCATE SERVICE" AT 1-800-332-2344 AT LEAST 2 FULL BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION FOR LOCATION OF UNDERGROUND WATER, SEWER, STORM DRAIN, POWER, GAS, OIL, CABLE TV, AND TELEPHONE FACILITIES.
4. ALL UNSUITABLE SOILS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM GRADING OPERATIONS SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF PROPERLY.
5. THE CONTRACTOR SHALL EMPLOY ALL LABOR, EQUIPMENT, AND METHODS REQUIRED TO PREVENT HIS OPERATIONS FROM PRODUCING DUST IN AMOUNTS DAMAGING TO PROPERTY, CULTIVATED VEGETATION, AND DOMESTIC ANIMALS OR CAUSING A NUISANCE TO PERSONS OCCUPYING BUILDINGS IN THE VICINITY OF THE JOB SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY DUST RESULTING FROM HIS OPERATIONS.
6. ALL ACCESSIBLE ROUTES SHALL BE CONSTRUCTED WITH A SLOPE OF NO MORE THAN 5.0% IN THE DIRECTION OF TRAVEL AND A CROSS SLOPE OF NO MORE THAN 2.0%.

CONSTRUCTION KEY NOTES

1. CONSTRUCT LIGHT-DUTY PCC PAVEMENT (4" PCC ON 4" AGGREGATE BASE) (PER ODOT STD DWG RD720, SHEET C3.01)
2. CONSTRUCT HMAC PAVEMENT (4" HMAC ON 6" AGGREGATE BASE) (PER COM STD DWG 7-5, SHEET C3.01)
3. CONSTRUCT SINGLE PERPENDICULAR ADA RAMP (PER ODOT STD DWG RD916, SHEET C3.01)
4. CONSTRUCT 12" CONCRETE CURB (REVEAL PER PLANS) (PER COM STD DTL 7-15, SHEET C3.01)
5. INSTALL SALVAGED WATER METER (PER COM STD DTL 6-1, SHEET C3.02)
6. CONSTRUCT CONCRETE ACCESSIBLE RAMP
7. CONSTRUCT CONCRETE LANDING AND STAIRS
8. INSTALL HANDRAILS
9. CONSTRUCT TRANSITION PANEL (PER ODOT DTD DWG RD722, SHEET C3.02)
10. INSTALL SALVAGED STOP SIGN W/ STREET SIGNS (PER COM STD DWG 7-17, SHEET C3.02)
11. INSTALL SALVAGED CATCH BASIN. EXTEND STORM DRAIN PIPE 2 LF. (PER ODOT STD DWG RD364, SHEET C3.02)
12. INSTALL SALVAGED ACCESSIBLE SIGN (PER DETAIL 1/3.03 & COM STD DWG 7-17, SHEET C3.02)
13. STRIPE ADA PARKING SPACE AND LOADING ZONE PER DETAIL 1/C3.03

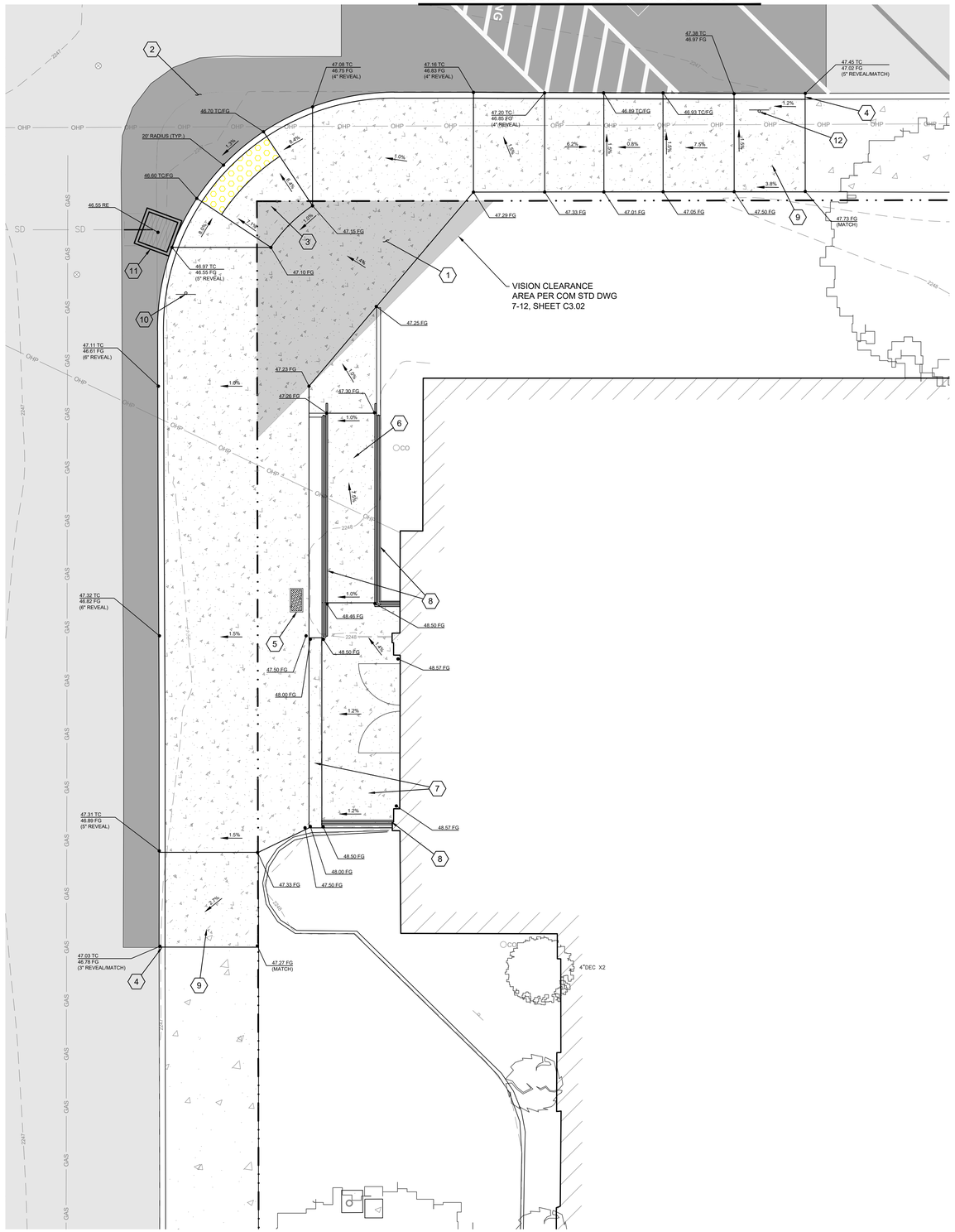
GRADING LEGEND

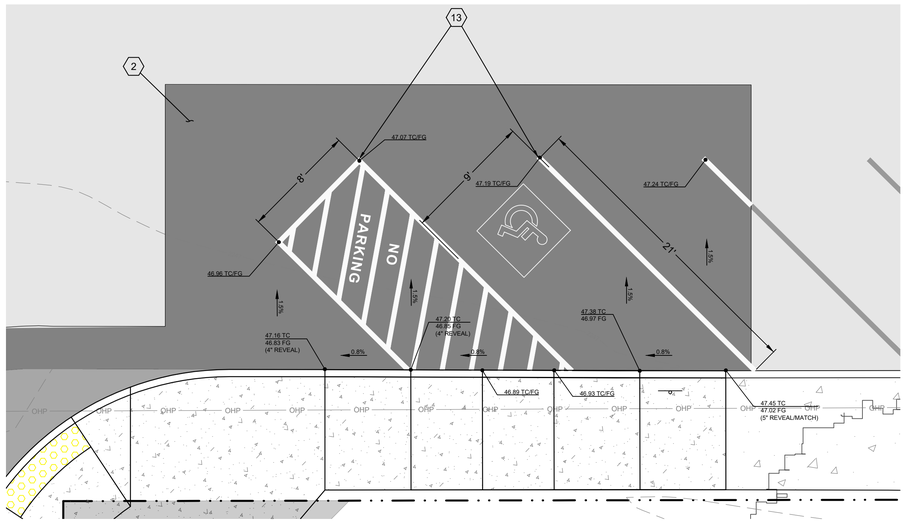
- EXISTING CURB
- 2201 — EXISTING 1' GROUND SURFACE CONTOUR
- 2205 — EXISTING 5' GROUND SURFACE CONTOUR
- 60.50 FG — PROPOSED SPOT ELEVATION
- FG — FINISH GRADE
- EG — EXISTING GRADE
- EP — EDGE OF PAVEMENT
- RE — RIM ELEVATION

NOTE:
ADD 2200.00 FT TO ALL SPOT ELEVATIONS

- EXISTING HMAC PAVEMENT TO REMAIN
- PROPOSED HMAC PAVEMENT
- EXISTING CONCRETE TO REMAIN
- PROPOSED PCC PAVEMENT

SEE THIS SHEET FOR ADA GRADING DETAILS





ADA GRADING DETAILS
SCALE: 1"=5'

0 2.5 5 10 15
SCALE: 1" = 5'

N

0 2.5 5 10 15
SCALE: 1" = 5'

N

/saj/ Architecture

Stamp
REGISTERED PROFESSIONAL ENGINEER
32977PE
OREGON
JULY 13, 1984
GRANT HARDGRAVE

DRAWING REVISIONS

No.	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: GRADING AND PAVING PLAN

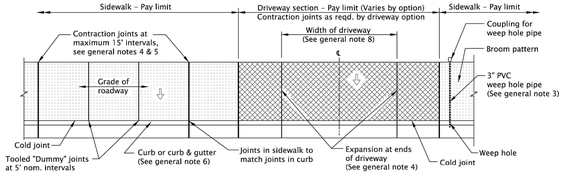
Date : SEPTEMBER 11, 2023
Revised :
Drawn By : MWB
Project No. 22140

Sheet No.
C2.01

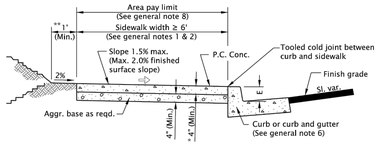
BLRB ARCHITECTS, P.S.

20-JUL-2020

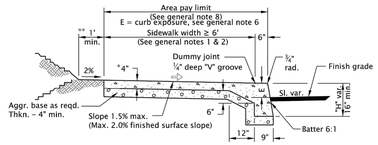
RD720.dgn



TYPICAL PLAN VIEW - CURB LINE SIDEWALK



TYPICAL CURB SIDEWALK CROSS SECTION

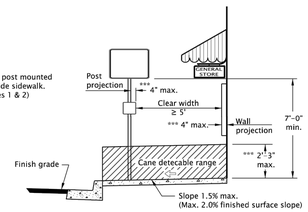


TYPICAL MONOLITHIC CURB & SIDEWALK CROSS SECTION
E = curb exposure, see general note 6

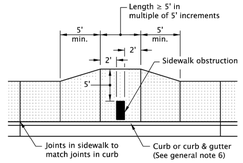
* Min. 4" or as specified in plans. A thickness ≥ 6" if sidewalk is intended as portion of a driveway or mountable curb is used.

** Provide compacted backfill adjacent to curb and sidewalk

*** Objects with base below 2'-3" may protrude any distance as long as the 5' circulation path is maintained. When an object with a base higher than 2'-3" protrudes further than 4" provide a detection below protrusion to delineate edge.



CLEAR CIRCULATION PATH



REQUIRED SIDEWALK WIDENING AROUND OBSTRUCTIONS

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Include additional paved or unpaved 2' shy distance to vertical faces higher than 5' such as retaining walls, sound walls, fences and buildings.
2. Curb type and sidewalk width as shown on plans or as directed. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint.
3. Install 3" pvc weep hole pipes in sidewalks where shown on plans, and allowed by jurisdiction. Place contraction joint over top of pipe. See Std. Dwg. RD700 for weep hole details.
4. Provide expansion joints around poles, posts, boxes, at ends of each driveway, and other fixtures which protrude through or against the structures. For sidewalk, monolithic curb & sidewalk, const. expansion joints at 45° maximum spacing. See Std. Dwg. RD722 for expansion joints details.
5. Const. contraction joints at 15' maximum spacing, and at ends of each curb ramp. See Std. Dwg. RD722 for contraction joints details.
6. For curb details, see Std. Dwgs. RD700 & RD701. ODOT standard E=7".
7. Sidewalk details are based on applicable ODOT standards.
8. Fully lowered sidewalk shown; see project plans for the diveway design specified. For driveway details not shown, see Std. Dwgs. RD725, RD730, RD735, RD740, RD745 & RD750.
9. See project plans for details not shown.

LEGEND

- Sidewalk pay limit.
- Driveway pay limit, varies by option, (See general note 8).
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

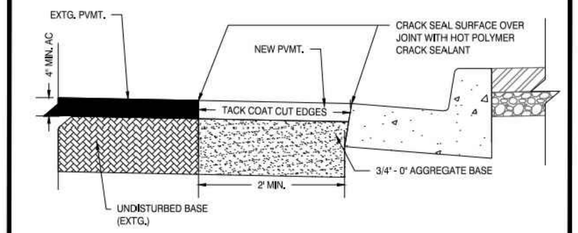
CURB LINE SIDEWALKS

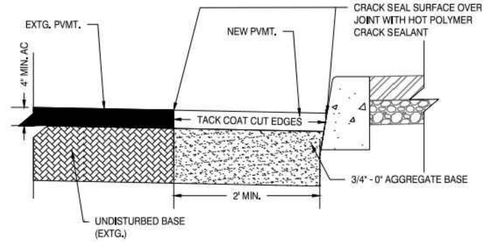
2021

DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A — SOR DATE. 21-JUN-2019 — **RD720**

Effective Date: June 1, 2023 – November 30, 2023

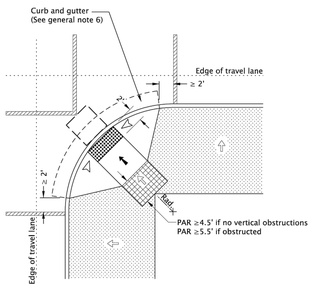




CITY OF MADRAS - STANDARD DETAIL	SCALE: NTS	DRAWING NO.
	DRAWN BY: CPF	7-5
CURB PATCH	APPROVED BY: HAM	
	REVISION DATE: 12/16/2016	

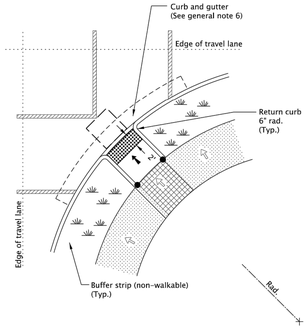
20-JUL-2020

RD916.dgn



DIAGONAL CURB RAMP FOR WIDE SIDEWALKS OPTION "PR-9"

(Use only when site constraints prohibit installing two curb ramps)



DIAGONAL CURB RAMP WITH LANDSCAPED BUFFER STRIP OPTION "PR-10"

(Use only when site constraints prohibit installing two curb ramps)

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Curb ramp details are based on applicable ODOT Standards.
2. See project plans for details not shown.
   See Std. Dwgs. RD700 & RD701 for curbs.
   See Std. Dwgs. RD720 & RD721 for sidewalks.
   See Std. Dwg. RD910 for perpendicular curb ramp details.
   See Std. Dwgs. RD902 through RD908 for detectable warning surface installation details.
3. Tooled dummy joints are required at all curb ramp slope break lines, (see Std. Dwg. RD722).
4. Curb ramp slopes shown are relative to the true level horizon (zero bubble).
5. Only use curb ramp options allowed by jurisdiction. Single ramps required design exceptions on or along state highways.
6. On or along state highways, curb and gutter is required at curb ramps.

LEGEND:

- Marked or intended crossing location
- Sidewalk
- Detectable warning surface
- Level area (Turning space/landing) Unobstructed 4.5' x 4.5' With obstruction 4.5' x 5.5' (Longer dimension in direction of pedestrian street crossing). For the purposes of this application, a max. 2.0% finished surface slope (for drainage) measured perpendicular in two directions is considered level.
- Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Running slope 7.5% max. (Max. 8.3% finished surface slope)
- Flare slope (Max. 10% finished surface slope)
- 4'x4' clear space
- PAR — Pedestrian Access Route
- Zero curb exposure

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

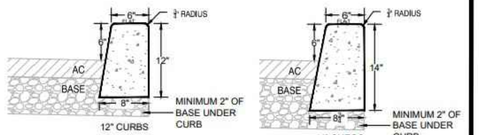
PERPENDICULAR CURB RAMP SINGLE RAMP

2021

DATE	REVISION DESCRIPTION
07-2020	NEW DRAWING CREATED

CALC. BOOK NO. N/A — SOR DATE. 20-JUL-2020 — **RD916**

Effective Date: June 1, 2023 – November 30, 2023



GUTTER PAN NOTES
SLOPE 5.0% NORMAL.
SLOPE 4.0% MAX AT CURB RAMPS.
VARY SLOPE AS REQUIRED FOR DRAINAGE.
VARY WHERE SHOWN ON PLANS, AND ALLOWED BY CITY.

CURB AND GUTTER

CITY STANDARD CURBS

NOTES:
1. CONCRETE SHALL BE CLASS 3000 MEETING THE REQUIREMENTS OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION (SECTION 440 "COMMERCIAL GRADE CONCRETE").
2. ROLLED CURBS USED ONLY AT CITY ENGINEERS DISCRETION.
3. EXPANSION JOINTS ARE REQUIRED AT:
   A. A MAXIMUM SPACING OF 100 FEET.
   B. AT EACH POINT OF TANGENCY.
   C. AT THE TOP OF ALL ADA AND DRIVEWAY APRON FLARES.
   D. AROUND ALL POLES, POSTS, BOXES AND OTHER FIXTURES THAT PROTRUDE THROUGH OR AGAINST THE CURB.
4. CONTROL JOINTS ARE TO BE CUT INTO THE WET CONCRETE A MINIMUM 1/3 OF THE DEPTH AND PLACED AT A MAXIMUM OF 10' APART.
5. BASE ROCK UNDER CURB SHALL BE A MINIMUM OF TWO INCHES DEEP OR DEEPER AS REQUIRED TO MATCH STREET SECTION AND MEETING THE REQUIREMENTS OF SECTION 207.
6. DRIVEWAY APRON LIPS SHALL BE MINIMUM OF 1" TO A MAXIMUM OF 1 1/2" HEIGHT ABOVE ASPHALT AT GUTTER.
7. ADA LIPS SHALL BE FLUSH WITH ASPHALT PAVEMENT AT GUTTER.
8. ALL VISIBLE EDGES OF CURB SHALL HAVE A MAXIMUM 3/4" RADIUS FINISHED EDGE.
9. ALL VISIBLE SURFACES SHALL HAVE A LIGHT BROOM FINISH, PARALLEL WITH CURB.
10. ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE MARKED ON THE SURFACE OF CURB USING A STAMPED IMPRESSION OF "W" OR "S".
11. CURB HEIGHTS SHALL BE AS FOLLOWS:
    A. LOCAL STREETS - 12"
    B. ARTERIAL, COLLECTOR AND INDUSTRIAL STREETS - 14"

CITY OF MADRAS - STANDARD DETAIL	SCALE: NTS	DRAWING NO.
	DRAWN BY: GWM	7-15
CONCRETE CURBS	APPROVED BY: HAM	
	REVISION DATE: 1/10/20	

/saj/ Architecture

Stamp

REGISTERED PROFESSIONAL ENGINEER — 52977PE — OREGON — JULY 13, 1984 — GRANT HARDGRAVE

DRAWING REVISIONS

No.	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: DETAILS

Drawn By: MWB

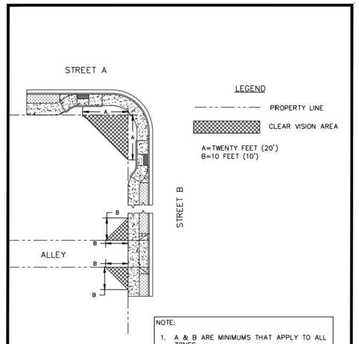
Project No. 22140

Date: SEPTEMBER 11, 2023

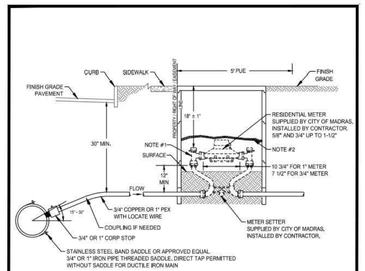
Revised:

Sheet No. C3.01

BLRB ARCHITECTS, P.S.



CITY OF MADRAS - STANDARD DETAIL	SCALE: NTS	DRAWING NO.
VISION CLEARANCE FOR STREET INTERSECTIONS AND ALLEYS	DRAWN BY: CPF	7-12
	APPROVED BY: HAM	
	REVISION DATE: 10/24/2017	

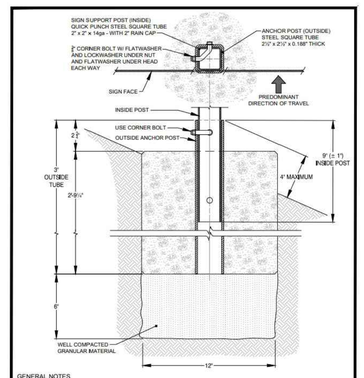


METER BOXES

LANDSCAPE AREAS				SIDEWALK/TRAFFIC AREAS		
METER SIZE	BOX SIZE	BOX TYPE	LID TYPE	BOX SIZE	BOX TYPE	LID TYPE
5/8"-1"	13X24	HDPE	HDPE W/CAST IRON READER OPENING	13X24	POLYMER CONCRETE - 20,000 LBS RATING	POLYMER CONCRETE - 20,000 LBS RATING W/CAST IRON READER OPENING
1.5"-2"	17X30	HPDE	HDPE W/CAST IRON READER OPENING	17X30	POLYMER CONCRETE - 20,000 LBS RATING	POLYMER CONCRETE - 20,000 LBS RATING W/CAST IRON READER OPENING
OVER 2"	*TO BE APPROVED BY CITY			*TO BE APPROVED BY CITY		

NOTE:
1. ANGLE METER VALVES ARE SUPPLIED WITH AND ATTACHED TO THE METER SETTER.
2. 1/2" CROSSLINK CLOSED CELL NATURAL T20 INSULATION, CUT TO FIT METER BOX

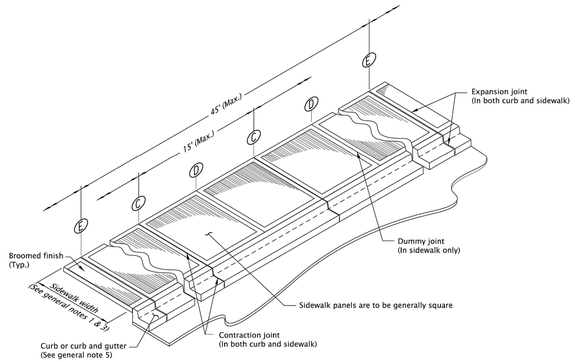
CITY OF MADRAS - STANDARD DETAIL	SCALE: NTS	DRAWING NO.
WATER SERVICE	DRAWN BY: GWM	6-1
	APPROVED BY: HAM	
	REVISION DATE: 7/7/20	



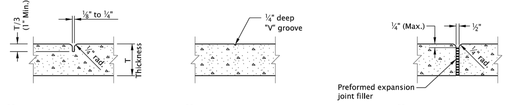
GENERAL NOTES
1. MATERIAL GRADE FOR BASE HARDWARE CONNECTION SHALL BE ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS AND BASED ON CRASH TESTING.
2. ANCHOR STEEL SHALL BE HOT DIPPED GALVANIZED OR APPROVED EQUAL.
3. FOOTING CONCRETE SHALL BE COMMERICAL GRADE CONCRETE (fc=3,000psi)

CITY OF MADRAS - STANDARD DETAIL	SCALE: NTS	DRAWING NO.
TYPICAL 2" POST STREET SIGN ANCHOR	DRAWN BY: SJS	7-17
	APPROVED BY: HAM	
	REVISION DATE: 09/14/2018	

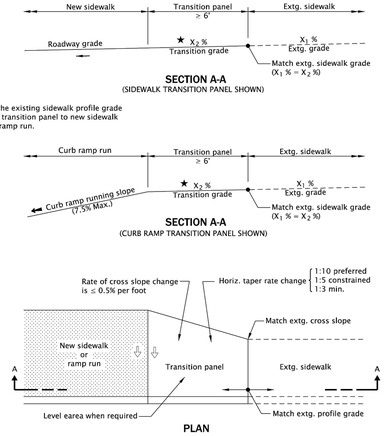
RD722.dgn 20-JUL-2020



JOINT DETAIL
(Curb line sidewalk with curb and gutter shown)



C CONTRACTION JOINT (See general note 6)
D DUMMY JOINT
E EXPANSION JOINT (See general notes 2 & 5)



SECTION A-A
(SIDEWALK TRANSITION PANEL SHOWN)

★ Project the existing sidewalk profile grade through transition panel to new sidewalk or curb ramp run.

SECTION A-A
(CURB RAMP TRANSITION PANEL SHOWN)

PLAN

SIDEWALK AND CURB RAMP TRANSITION PANELS

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. See Std. Dwgs. RD720 & RD721 for concrete sidewalk details. See project plans for sidewalk width, placement and design specified.
2. Provide expansion joints around poles, boxes, at ends of each driveway and other fixtures which protrude through or against the structures. For sidewalk, monolithic curb and sidewalk, construction expansion joints at 45' max. spacing.
3. On sidewalks 8' and wider, provide a longitudinal joint at the midpoint of sidewalk panel.
4. See Std. Dwgs. RD700 & RD701 for concrete curb details. See project plans for the curb design specified.
5. For curb ramps, do not place expansion joints within the limits of curb ramps and between separate concrete pours.
6. Const. contraction joints at 15' max. spacing, and at each curb ramp, driveway, sidewalk and curb.

LEGEND:
- New sidewalk or ramp run
- Slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)
- Slope 7.5% max. (Max. 8.3% finished surface slope)
- Zero exposure

CALC. BOOK NO. N/A

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.

SDR DATE 20-JUL-2020

NOTE: All material and workmanship shall be in accordance with the current Oregon Standard Specifications

OREGON STANDARD DRAWINGS

SIDEWALK JOINTS AND TRANSITION PANELS

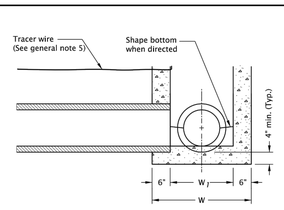
2021

DATE	REVISION DESCRIPTION

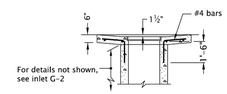
RD722

Effective Date: June 1, 2022 - November 30, 2022

RD364.dgn 20-JUL-2020



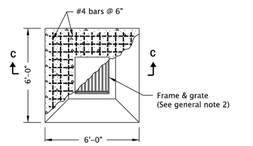
DETAIL A
WITHOUT SUMP



SECTION C-C

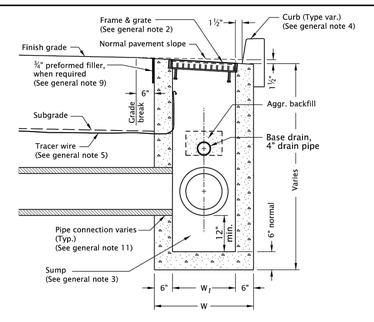
NOTE:

All reinforcement to be placed 2" clear of nearest face of concrete unless shown or noted otherwise

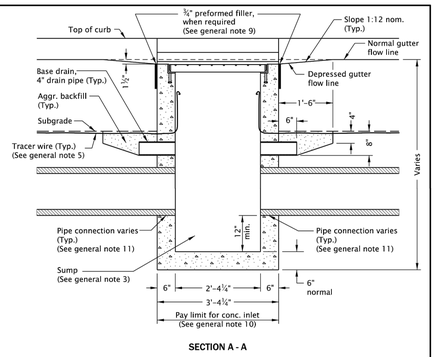


PLAN

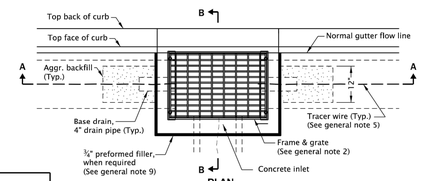
TYPE G-2MA



SECTION B - B



SECTION A - A



PLAN

TYPE G-1, G-2, G-2M

TABLE A		
INLET TYPE	W	W_1
G-1	2'-8⅞"	1'-8⅞"
G-2, G-2M, G-2MA	3'-3⅜"	2'-3⅜"

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

1. Where precast inlets are used as an alternate to cast-in-place inlets, a 4" compacted leveling bed of sand or ¾"-0 crushed aggregate shall be provided. All precast inlets shall conform to requirements of ASTM C913.
2. Graphics show G-1 inlet with Type 2 grate. See Table A for inlet dimensions.
   Type 1 grate allowed only in locations not subject to bicycle or pedestrian use.
   For frame and grate details, see Std. Dwg. RD365.
3. Provide sump only where shown on plans, and allowed by jurisdiction. See Detail A for inlet without sump.
4. For curb details, see Std. Dwgs. RD700 & RD701.
5. See Std. Dwg. RD336 for tracer wire details, or approved alternate.
6. Max. pipe diameter varies with pipe material.
7. Location, elevation, diameter, slope, and number of pipe(s) varies, see project plans.
8. All concrete shall be commercial grade concrete.
9. ¾" preformed filler (in concrete pavement or gutter only) to extend through thickness of concrete.
10. See Std. Dwg. RD363 for gutter transition section, when curb and gutter are required.
11. See Std. Dwg. RD339 for pipe to structure connections.

The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.

All materials shall be in accordance with the current Oregon Standard Specifications.

OREGON STANDARD DRAWINGS

CONCRETE INLETS
TYPE G-1, G-2, G-2M, & G-2MA

2021

DATE	REVISION DESCRIPTION

CALC. BOOK NO. N/A | SDR DATE 21-JUL-2015 | **RD364**

Effective Date: June 1, 2023 - November 30, 2023

/saj/ Architecture

REGISTERED PROFESSIONAL ENGINEER 52977PE OREGON JULY 13, 1984 GRANT HARDGRAVE

Stamp

DRAWING REVISIONS

No.	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: DETAILS

Drawn By: MWB
Date: SEPTEMBER 11, 2023
Project No. 22140
Revised:

Sheet No.
C3.02

BLRB ARCHITECTS, P.S.

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
August 2018

ANGLE– ACCESSIBLE PARKING LAYOUT

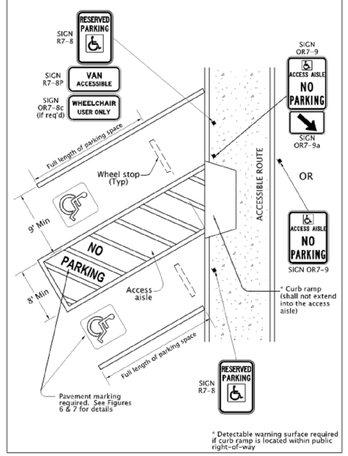
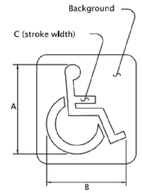


Figure 5

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
August 2018

PAVEMENT MARKING STENCIL



Pavement Marking Background: Optional: Blue, Retroreflective

Pavement Marking Stencil: White, Retroreflective

LEGEND	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
MINIMUM	28	24	3				
STANDARD	41	36	4				

The pavement marking stencil shall be used to designate an accessible parking area reserved for vehicles with DMV permits.

Figure 6

OREGON TRANSPORTATION COMMISSION
Standards for Accessible Parking Places
August 2018

PAVEMENT MARKING LEGEND

Pavement Marking Legend: White or Yellow, Retroreflective

The "No Parking" pavement marking is used to designate an access aisle reserved for persons use parking with a DMV permit. This marking shall be required for all access aisles next to accessible parking spaces. Engineering Judgement should be used for placement location to give best visual location to prevent illegal use of access aisle. Yellow may be used instead of white to increase contrast between access aisle white lines and the "No Parking" legend.

Figure 7

1 / C3.03 PAVEMENT MARKINGS
SCALE: NOT TO SCALE

/saj/ Architecture

REGISTERED PROFESSIONAL ENGINEER 52977PE OREGON JULY 13, 1984 GRANT HARDGRAVE

Stamp

DRAWING REVISIONS

No.	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: DETAILS

Date : SEPTEMBER 11, 2023

Revised :

Drawn By : MWB

Project No. 22140

Sheet No. C3.03

BLRB ARCHITECTS, P.S.

SITE PLAN GENERAL NOTES

A. SIDEWALKS AND RAMPS SHALL BE CONSTRUCTED TO THE FOLLOWING REQUIREMENTS:
   - MAXIMUM CROSS SLOPE OF SIDEWALKS & LANDINGS: 1:50
   - MAXIMUM SLOPE OF SIDWEALKS 1:20
   - MAXIMUM SLOPE OF RAMPS: 1:12
   - MAXIMUM SLOPE OF DISABLED PARKING STALLS: 2% IN ANY DIRECTION
   - 2% MAXIMUM SLOPE FOR 5'-0" IN DIRECTION OF TRAVEL AT ALL BUILDING ENTRANCES.

B. LIMITS OF WORK: THE CONTRACTOR SHALL CONFINE OPERATIONS AT THE SITE TO AREAS PERMITTED BY LAW, ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS.

C. STAGING AREA: THE CONTRACTOR AND SUBCONTRACTORS SHALL LIMIT STORAGE OF MATERIALS AND PORTABLE FIELD OFFICES WITHIN THE AREAS APPROVED BY THE AUTHORITY HAVING JURISDICTION.

D. GENERAL CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE OR DISRUPT EXISTING UTILITIES, INCLUDING DRAINS, WHILE EXCAVATING OR GRADING DURING CONSTRUCTION. CONFIRM LOCATION OF EXISTING UTILITIES ON ADJACENT PROPERTIES.

E. PRIOR TO START OF WORK THE CONTRACTOR SHALL COORDINATE WITH EACH RESPECTIVE GOVERNING AUTHORITY IN VERIFYING THE LOCATION (INVERT ELEVATIONS, HORIZONTAL CONTROLS, EASEMENTS) OF EXISTING SANITARY AND STORM SEWER, WATER, NATURAL GAS, ELECTRICAL, FIBER OPTIC, TELEPHONE, OVERHEAD POWER LINES AND OTHER UTILITY SYSTEMS, BOTH ONSITE AND OFFSITE. THE CONTRACTOR SHALL COMPARE UTILITY INFORMATION WITH THE CONTRACT DOCUMENTS. IF A CONSTRUCTION CONFLICT IS DISCOVERED BETWEEN THE UTILITY INFORMATION OBTAINED AND THE CONTRACT DOCUMENTS NOTIFY THE ARCHITECT IMMEDIATELY.

F. EMERGENCY VEHICLE ACCESS: THE CONTRACTOR SHALL MAINTAIN FIRE TRUCK ACCESS TO THE SITE THROUGHOUT THE CONSTRUCTION PROCESS UNLESS AN ALTERNATE PLAN IS APPROVED BY THE FIRE DEPARTMENT.

KEYNOTE LEGEND - SITE PLAN

#	DESCRIPTION

SITE PLAN LEGEND

- PROPERTY BOUNDARY
- BUILDING SETBACK
- UTILITY EASEMENT
- ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY
- FENCE

1 OVERALL SITE PLAN
1/64" = 1'-0" @ FULL SIZE
0' 8' 16' 32'

/saj/ Architecture
BEND / PORTLAND

Stamp

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: SITE PLAN
Drawn By: LCG
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
A1.01

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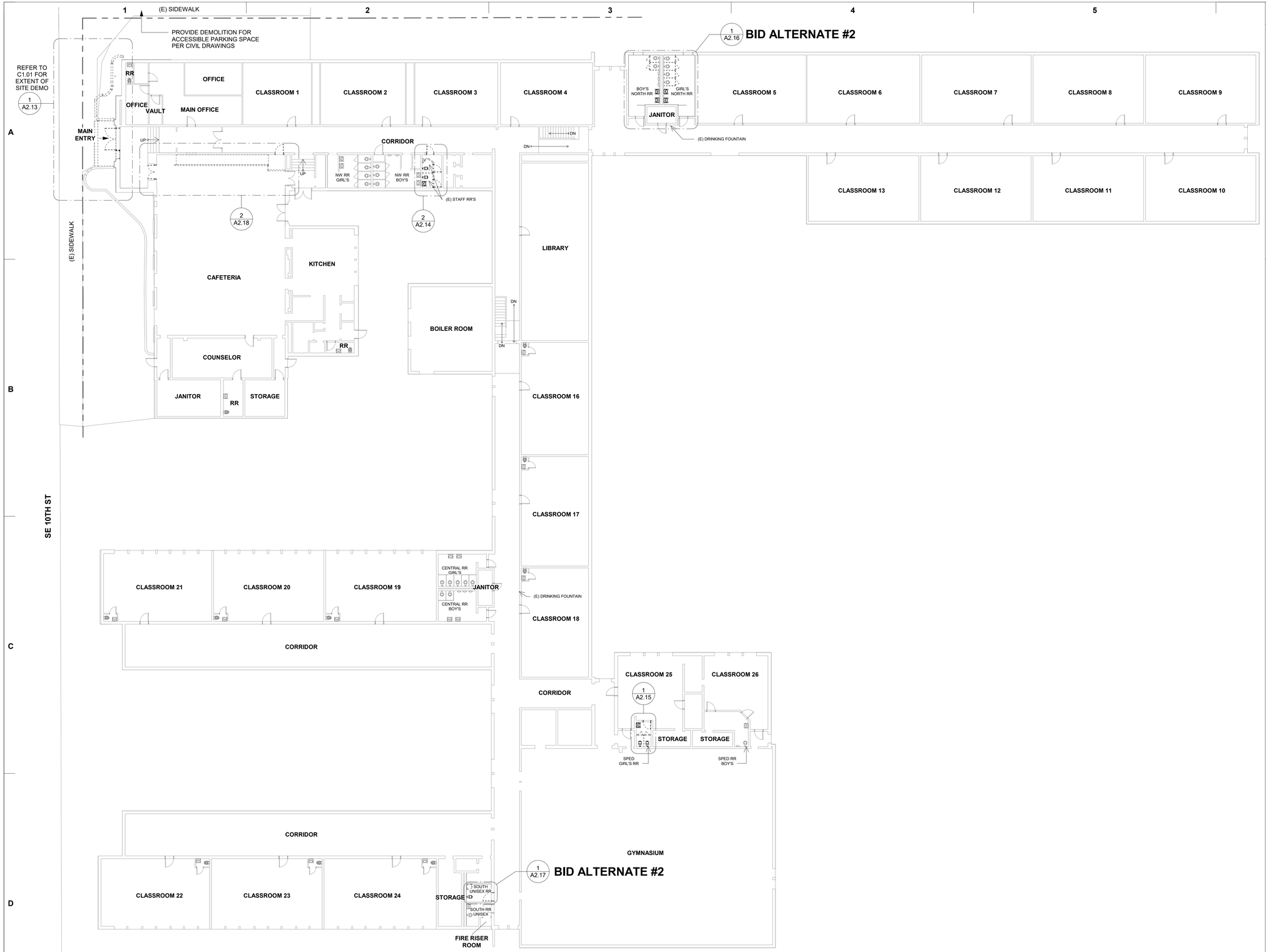
SAJ ARCHITECTURE



1 DEMO FLOOR PLAN

1/16" = 1'-0" @ FULL SIZE

0' 4' 8' 16'

FLOOR PLAN GENERAL NOTES

A. DRAWINGS ARE SHOWN TO SCALE AS NOTED AS AIDS IN DETERMINING SIZE AND PROPORTION. ONLY WRITTEN DESCRIPTIONS AND SIZES SHALL BE UTILIZED FOR CONSTRUCTION. DRAWINGS SHALL NOT BE SCALED.
   - UNLESS NOTED OTHERWISE, DIMENSIONS ON PLANS ARE:
   - FACE OF STUD (F.O.S.)
   - FACE OF CONCRETE (F.O.C.)
   - CENTERLINE OF DOOR AND WINDOW OPENINGS.

B. FIXTURES AND EQUIPMENT SHOWN ARE FOR COORDINATION PURPOSES ONLY. REFER TO THE MANUFACTURER'S PRODUCT DATA, ENGINEERING DRAWINGS, AND SPECIFICATIONS FOR FIXTURE AND EQUIPMENT DESCRIPTIONS AND LOCATIONS.

C. PRESERVATION OF ADJACENT OR EXISTING CONSTRUCTION:
   - AVOID DAMAGE TO EXISTING STRUCTURES, SIDEWALKS, CURBS, PAVING AND LANDSCAPING.
   - PATCH, REPAIR, OR REPLACE ANY ITEMS DAMAGED, OR AS DIRECTED BY THE PROPERTY OWNER.

D. AVOID UNNECESSARY DISRUPTIONS TO THE FUNCTIONS AND ACTIVITIES OF ADJACENT BUILDINGS.

E. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION. BRING DISCREPANCIES OR CONFLICTING DATA TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

F. UNLESS NOTED OTHERWISE, INSTALL DOORS WITH 4" FROM HINGE SIDE OF DOOR TO ADJACENT WALL FRAMING.

G. CONTRACTOR TO VERIFY SIZES OF ROUGH DOOR AND WINDOW OPENINGS PRIOR TO ORDERING DOORS AND WINDOWS.

H. SEE SHEET A9.11 FOR MATERIALS/FINISHES

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Stamp

DRAWING REVISIONS

#	Description	Date
1		

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: REFERENCE DEMOLITION PLAN

Drawn By : LCG

Project No. 22140

Date : SEPTEMBER 11, 2023

Revised :

Sheet No. A2.11

SAJ ARCHITECTURE

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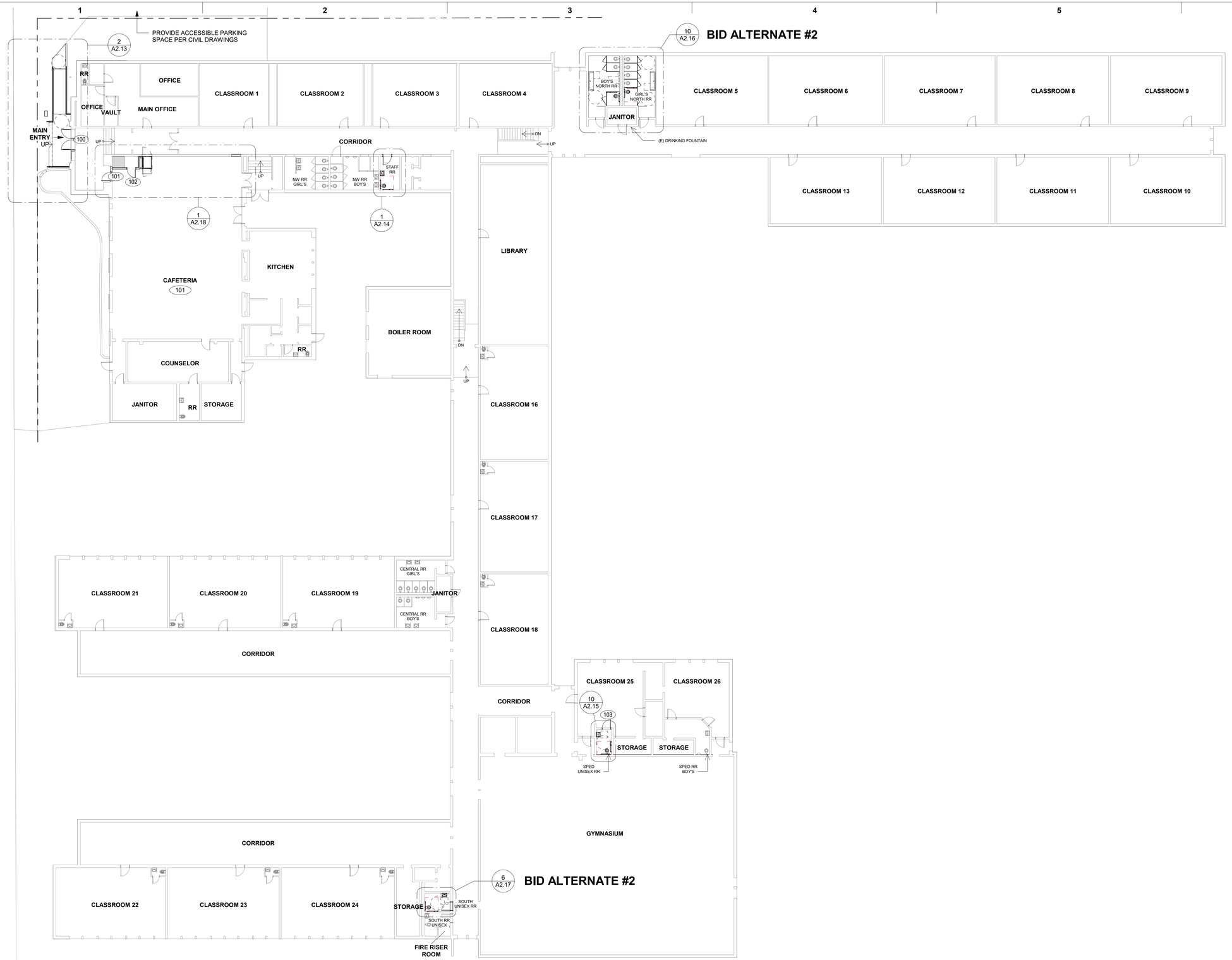

1 NEW FLOOR PLAN

1/16" = 1'-0" @ FULL SIZE

0' 4' 8' 16'

FLOOR PLAN GENERAL NOTES

A. DRAWINGS ARE SHOWN TO SCALE AS NOTED AS AIDS IN DETERMINING SIZE AND PROPORTION. ONLY WRITTEN DESCRIPTIONS AND SIZES SHALL BE UTILIZED FOR CONSTRUCTION. DRAWINGS SHALL NOT BE SCALED.
   - UNLESS NOTED OTHERWISE, DIMENSIONS ON PLANS ARE:
   - FACE OF STUD (F.O.S.)
   - FACE OF CONCRETE (F.O.C.)
   - CENTERLINE OF DOOR AND WINDOW OPENINGS.

B. FIXTURES AND EQUIPMENT SHOWN ARE FOR COORDINATION PURPOSES ONLY. REFER TO THE MANUFACTURER'S PRODUCT DATA, ENGINEERING DRAWINGS, AND SPECIFICATIONS FOR FIXTURE AND EQUIPMENT DESCRIPTIONS AND LOCATIONS.

C. PRESERVATION OF ADJACENT OR EXISTING CONSTRUCTION:
   - AVOID DAMAGE TO EXISTING STRUCTURES, SIDEWALKS, CURBS, PAVING AND LANDSCAPING.
   - PATCH, REPAIR, OR REPLACE ANY ITEMS DAMAGED, OR AS DIRECTED BY THE PROPERTY OWNER.

D. AVOID UNNECESSARY DISRUPTIONS TO THE FUNCTIONS AND ACTIVITIES OF ADJACENT BUILDINGS.

E. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION. BRING DISCREPANCIES OR CONFLICTING DATA TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.

F. UNLESS NOTED OTHERWISE, INSTALL DOORS WITH 4" FROM HINGE SIDE OF DOOR TO ADJACENT WALL FRAMING.

G. CONTRACTOR TO VERIFY SIZES OF ROUGH DOOR AND WINDOW OPENINGS PRIOR TO ORDERING DOORS AND WINDOWS.

H. SEE SHEET A9.11 FOR MATERIALS/FINISHES

/saj/ Architecture
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MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: REFERENCE NEW PLAN

Drawn By: LCG

Project No. 22140

Date: SEPTEMBER 11, 2023

Revised:

Sheet No. A2.12

SAJ ARCHITECTURE

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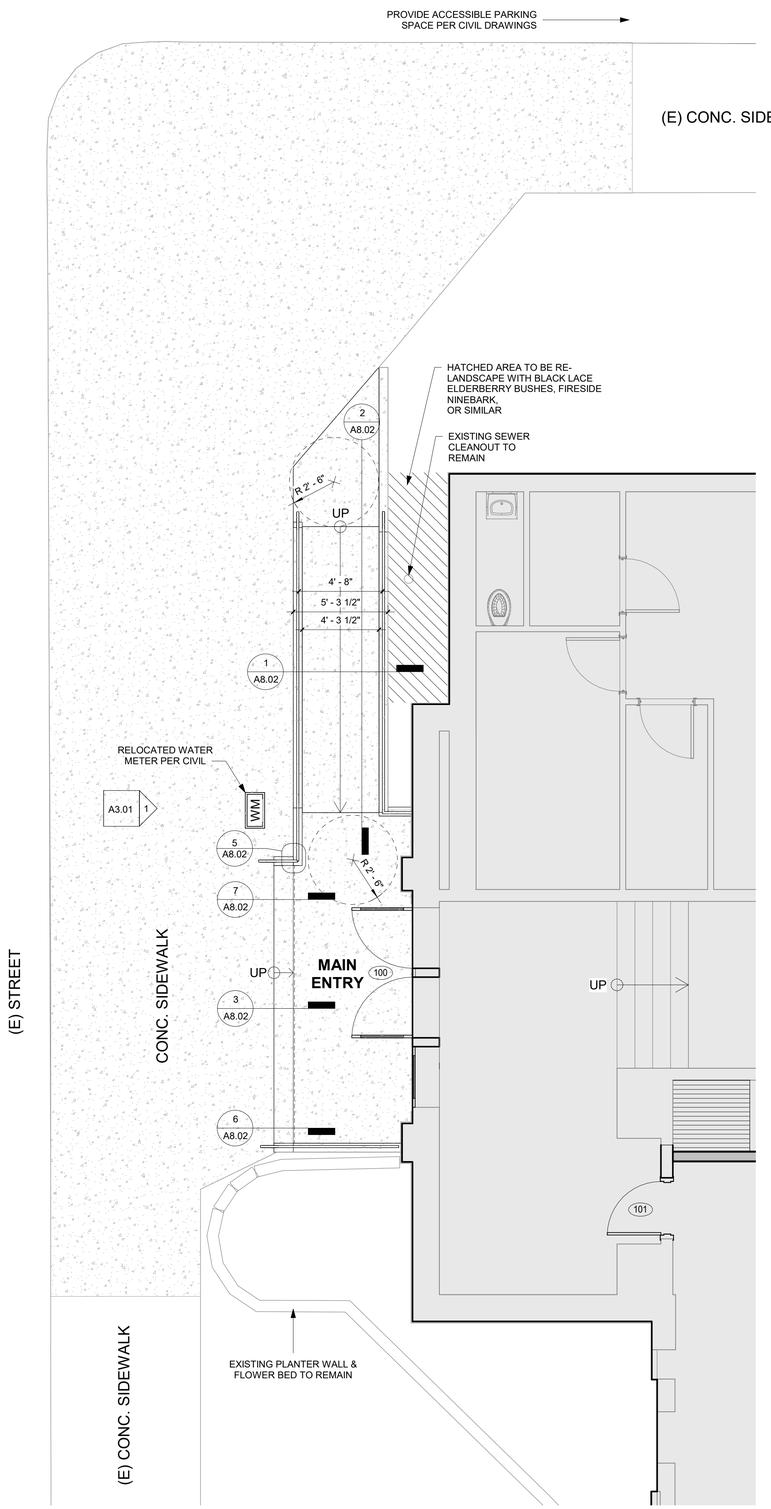
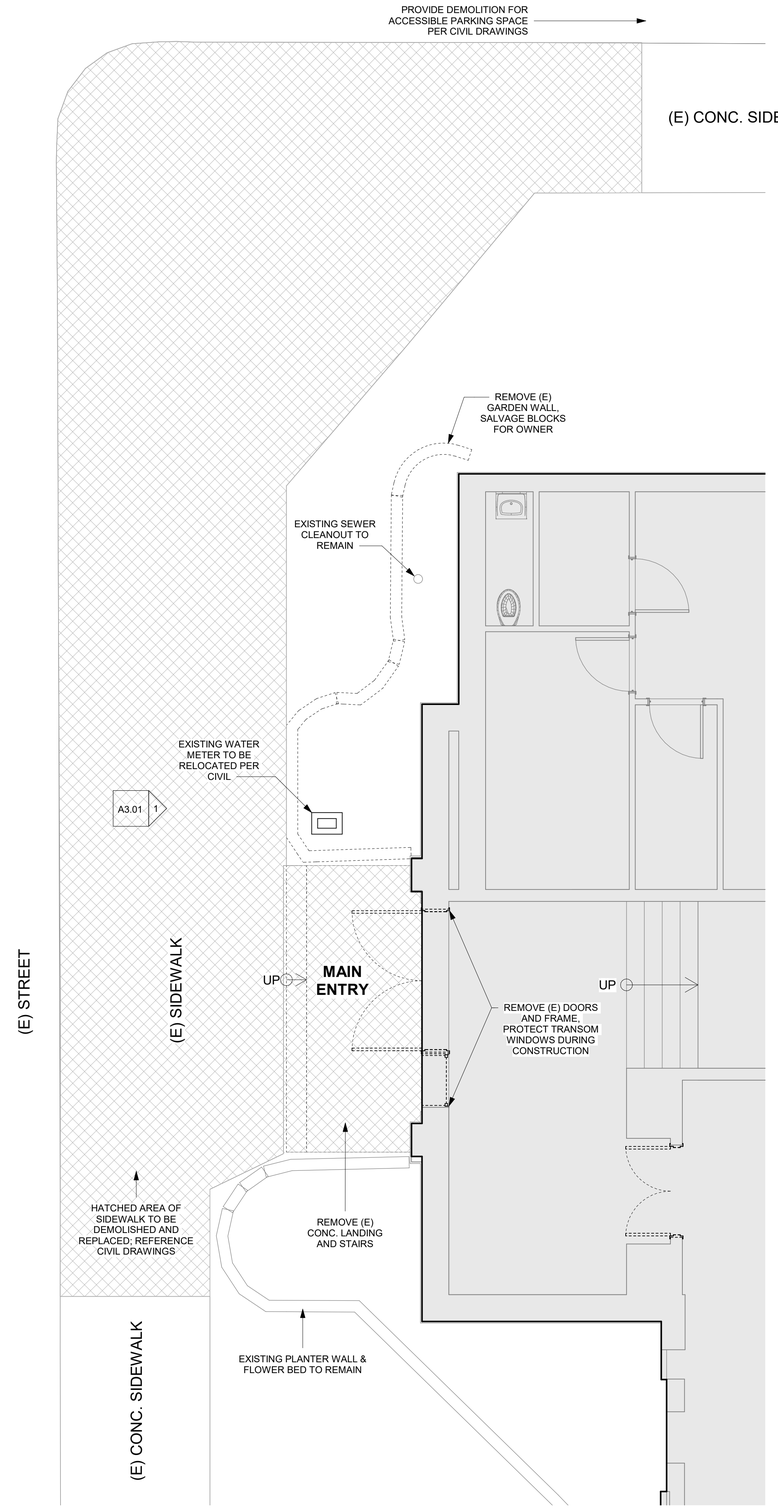


2 MAIN ENTRANCE PLAN

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'



1 MAIN ENTRANCE DEMO PLAN

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

/saj/ Architecture
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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: MAIN ENTRANCE PLANS

Drawn By: LCG

Project No. 22140

Date: SEPTEMBER 11, 2023

Revised:

Sheet No. A2.13

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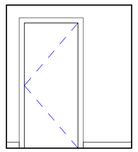


6 STAFF RR - ELEVATION - NORTH

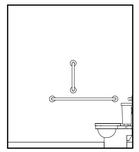
1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

5 STAFF RR - ELEVATION - EAST

1/4" = 1'-0" @ FULL SIZE

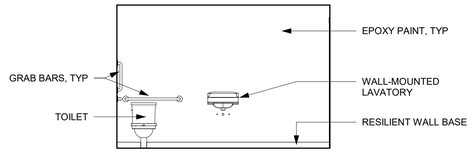
0' 1' 2' 4'



4 STAFF RR - ELEVATION - SOUTH

1/4" = 1'-0" @ FULL SIZE

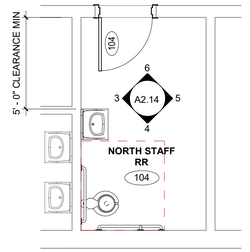
0' 1' 2' 4'



3 STAFF RR - ELEVATION - WEST

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'



1 STAFF RESTROOM FLOOR PLAN

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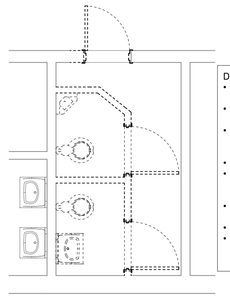

DEMOLITION NOTES: STAFF RESTROOM

- REMOVE ALL INTERIOR WALLS SHOWN DASHED.
- REMOVE RESTROOM WALLS SHOWN DASHED.
- REMOVE ALL PLUMBING FIXTURES. CAP OR EXTEND TO NEW FIXTURES PER PLUMBING DRAWINGS.
- REMOVE ALL WALL BASE
- REMOVE AND SALVAGE ALL WALL-MOUNTED RESTROOM ACCESSORIES.
- REMOVE ALL TILE AND SHEET FLOOR FINISH MATERIAL.
- REMOVE ALL LIGHT FIXTURES
- REMOVE HALLWAY DOOR AND ADJACENT WALL AS REQUIRED TO INSTALL NEW DOOR.

2 STAFF RESTROOM DEMO PLAN

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: ACCESSIBLE SINGLE-USE RESTROOM

Date : SEPTEMBER 11, 2023

Revised :

Drawn By : LCG

Project No. 22140

Sheet No.

A2.14

SAJ ARCHITECTURE

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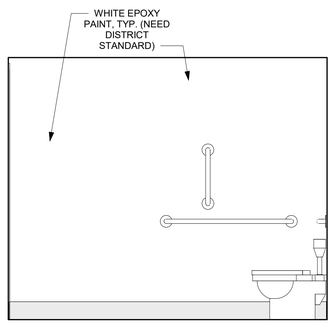
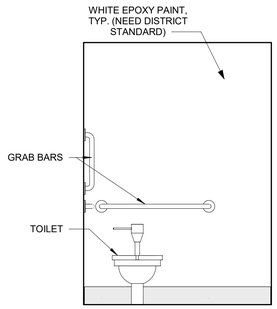


14 SPED RR - ELEVATION - EAST

1/2" = 1'-0" @ FULL SIZE

0' 1' 2' 4'



13 SPED RR - ELEVATION - SOUTH

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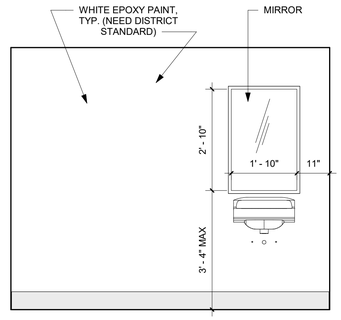
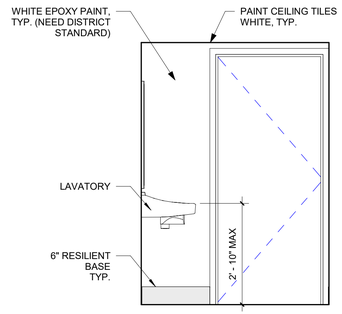


12 SPED RR - ELEVATION - WEST

1/2" = 1'-0" @ FULL SIZE

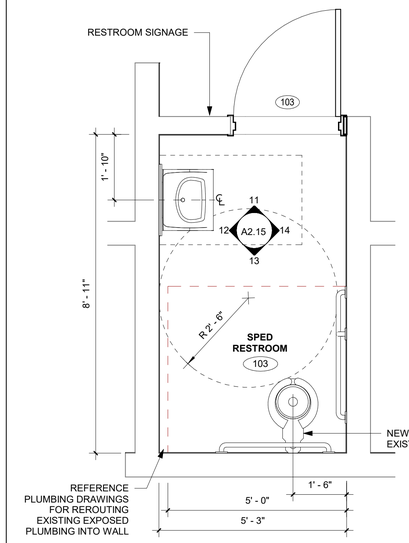
0' 1' 2' 4'



11 SPED RR - ELEVATION - NORTH

1/2" = 1'-0" @ FULL SIZE

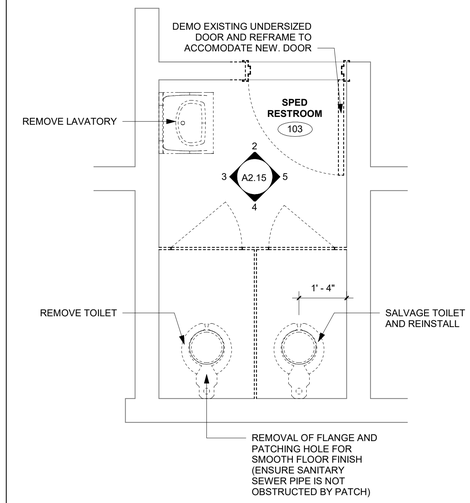
0' 1' 2' 4'



10 NEW RESTROOM PLAN - SPED UNISEX

1/2" = 1'-0" @ FULL SIZE

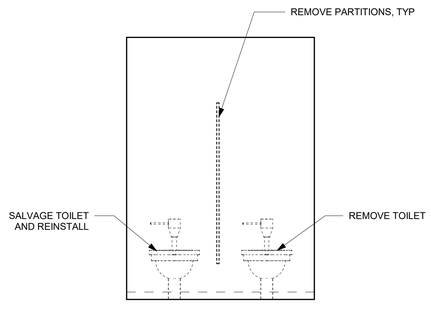
0' 6" 1' 2'



5 SPED RR - DEMO ELEVATION - EAST

1/2" = 1'-0" @ FULL SIZE

0' 2' 4' 8'



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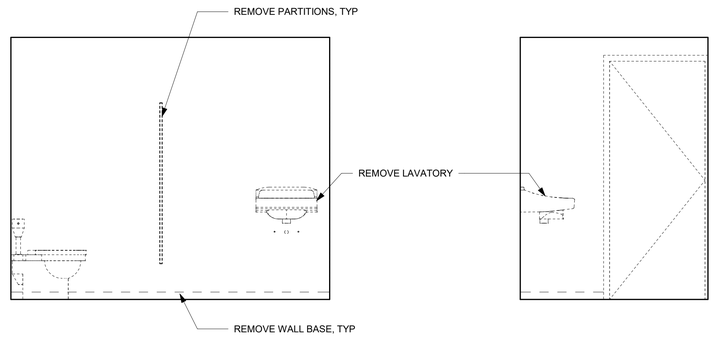
0' 2' 4' 8'



3 SPED RR - DEMO ELEVATION - WEST

1/2" = 1'-0" @ FULL SIZE

0' 2' 4' 8'

2 SPED RR - DEMO ELEVATION - NORTH

1/2" = 1'-0" @ FULL SIZE

0' 2' 4' 8'

1 DEMO RESTROOM PLAN - SPED UNISEX

1/2" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

/saj/ Architecture
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Stamp

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: SPED RESTROOM PLANS & ELEVATIONS

Drawn By: Author

Project No. 22140

Date: SEPTEMBER 11, 2023

Revised:

Sheet No. A2.15

SAJ ARCHITECTURE

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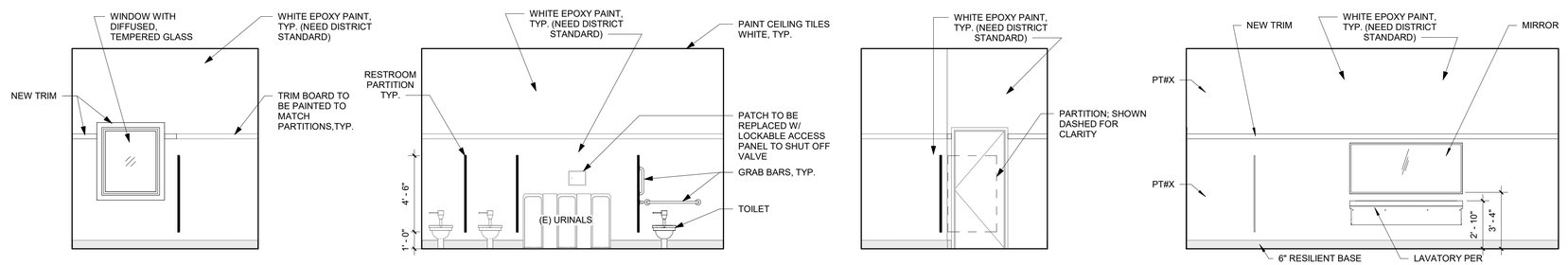
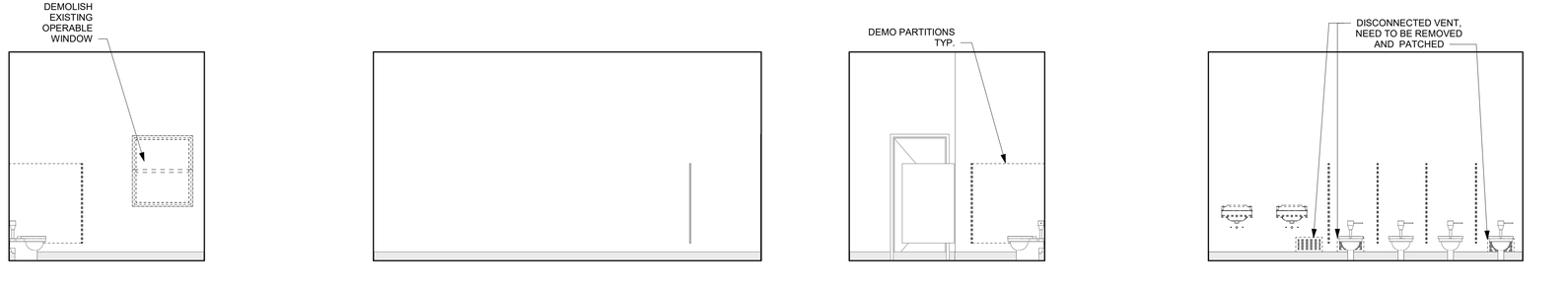


18 BOYS NORTH RR - ELEVATION - NORTH — 1/4" = 1'-0" @ FULL SIZE

17 BOYS NORTH RR - ELEVATION - EAST — 1/4" = 1'-0" @ FULL SIZE

16 BOY'S NORTH RR - ELEVATION - SOUTH — 1/4" = 1'-0" @ FULL SIZE

15 BOY'S NORTH RR - ELEVATION - WEST — 1/4" = 1'-0" @ FULL SIZE

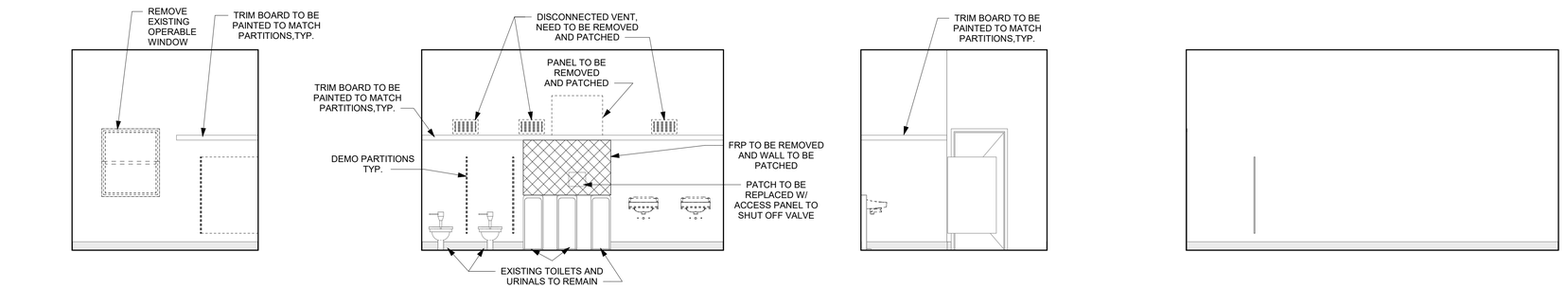


14 GIRLS NORTH RR - ELEVATION - NORTH — 1/4" = 1'-0" @ FULL SIZE

13 GIRLS NORTH RR - ELEVATION - EAST — 1/4" = 1'-0" @ FULL SIZE

12 GIRL'S NORTH RR - ELEVATION - SOUTH — 1/4" = 1'-0" @ FULL SIZE

11 GIRLS NORTH RR - ELEVATION - WEST — 1/4" = 1'-0" @ FULL SIZE



9 BOY'S NORTH RR - DEMO ELEV - NORTH — 1/4" = 1'-0" @ FULL SIZE

8 BOYS NORTH RR - DEMO ELEV - EAST — 1/4" = 1'-0" @ FULL SIZE

7 BOYS NORTH RR - DEMO ELEV - SOUTH — 1/4" = 1'-0" @ FULL SIZE

6 BOYS NORTH RR - DEMO ELEV - WEST — 1/4" = 1'-0" @ FULL SIZE

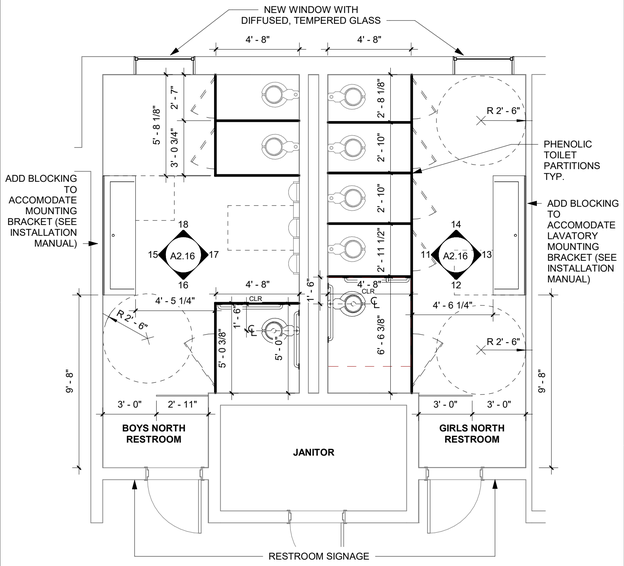
5 GIRLS NORTH RR - DEMO ELEV - NORTH — 1/4" = 1'-0" @ FULL SIZE

4 GIRLS NORTH RR - DEMO ELEV - EAST — 1/4" = 1'-0" @ FULL SIZE

3 GIRLS NORTH RR - DEMO ELEV - SOUTH — 1/4" = 1'-0" @ FULL SIZE

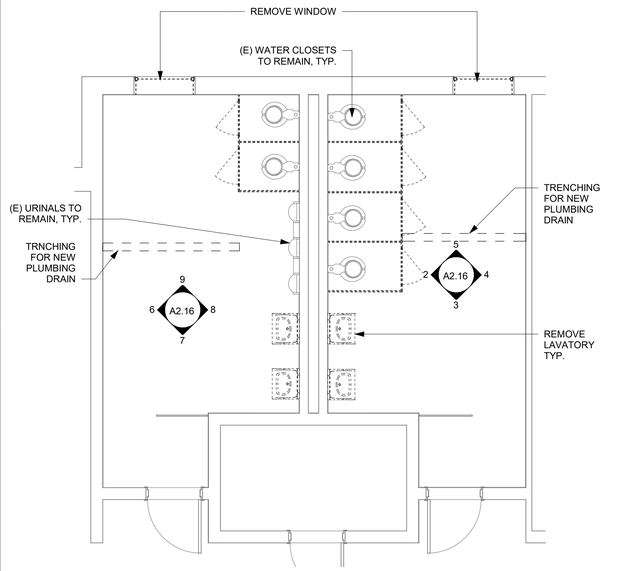
2 GIRLS NORTH RR - DEMO ELEV - WEST — 1/4" = 1'-0" @ FULL SIZE

REMOVE EXISTING CEILING MOUNTED EXHAUST FANS - USE EXISTING LOCATIONS, USE SINGLE EXHAUST FAN TO ERV BOTH RESTROOMS, WITH SINGLE ROOF PENETRATION



10 NORTH BOYS AND GIRLS RESTROOM PLAN — 1/4" = 1'-0" @ FULL SIZE

BID ALTERNATE #2



1 NORTH BOYS AND GIRLS DEMOLITION PLAN — 1/4" = 1'-0" @ FULL SIZE

BID ALTERNATE #2

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DRAWING REVISIONS

#	Description	Date

Stamp

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: NE WING RESTROOM PLANS & ELEVATIONS
Drawn By: LCG
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No. A2.16

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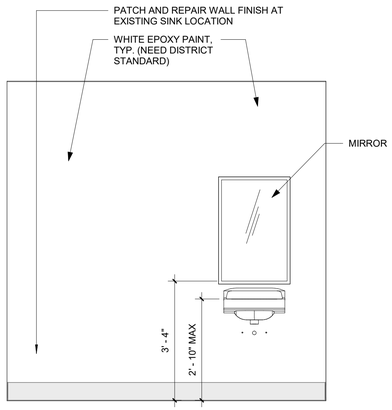
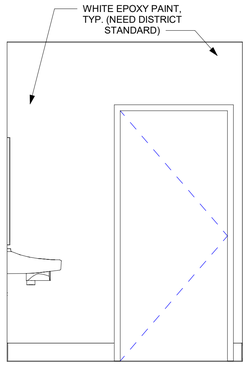
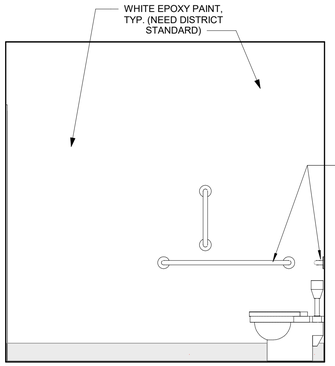
SAJ ARCHITECTURE



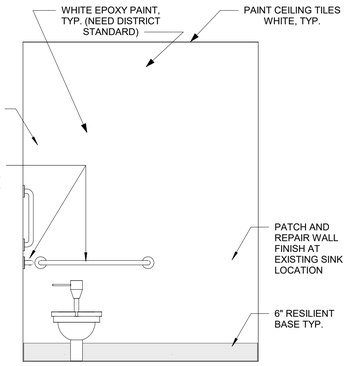
10 UNISEX RR - SOUTH - ELEVATION - NORTH
1/2" = 1'-0" @ FULL SIZE
0' 1' 2' 4'



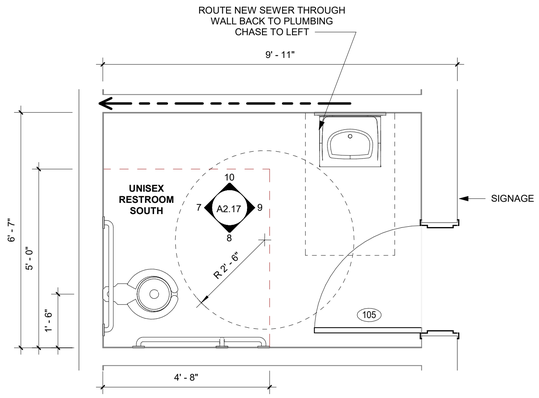
9 UNISEX RR - SOUTH - ELEVATION - EAST
1/2" = 1'-0" @ FULL SIZE
0' 1' 2' 4'



8 UNISEX RR - SOUTH - ELEVATION - SOUTH
1/2" = 1'-0" @ FULL SIZE
0' 1' 2' 4'

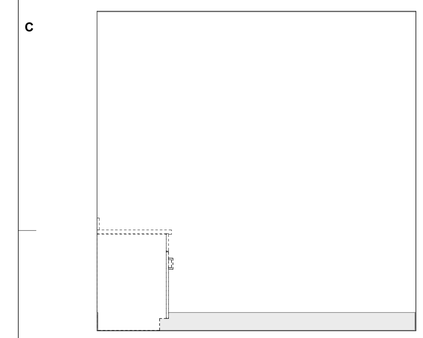


7 UNISEX RR - SOUTH - ELEVATION - WEST
1/2" = 1'-0" @ FULL SIZE
0' 1' 2' 4'

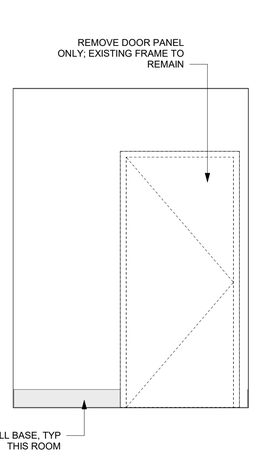


6 UNISEX RESTROOM - SOUTH - FLOOR PLAN
1/2" = 1'-0" @ FULL SIZE
0' 6" 1' 2'

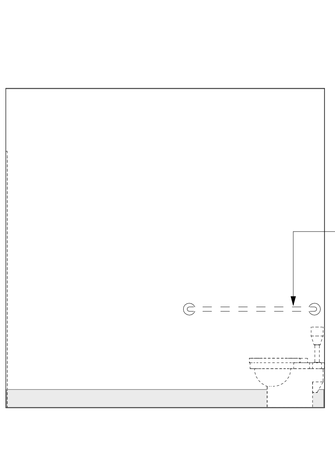
BID ALTERNATE #2



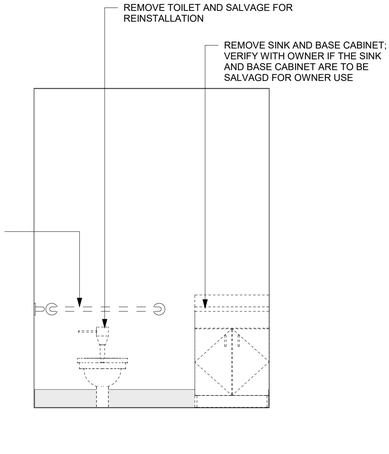
5 (D) UNISEX SOUTH - ELEVATION - EAST
1/2" = 1'-0" @ FULL SIZE
0' 2' 4' 8'



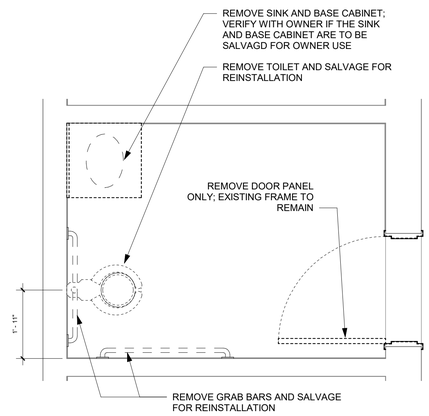
4 (D) UNISEX SOUTH - ELEVATION - SOUTH
1/2" = 1'-0" @ FULL SIZE
0' 2' 4' 8'



3 UNISEX RR - SOUTH - DEMO ELEV - SOUTH
1/2" = 1'-0" @ FULL SIZE
0' 2' 4' 8'



2 UNISEX RR - SOUTH - DEMO ELEV - WEST
1/2" = 1'-0" @ FULL SIZE
0' 2' 4' 8'



1 UNISEX RESTROOM - SOUTH - DEMO PLAN
1/2" = 1'-0" @ FULL SIZE
0' 6" 1' 2'

BID ALTERNATE #2

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DRAWING REVISIONS

#	Description	Date

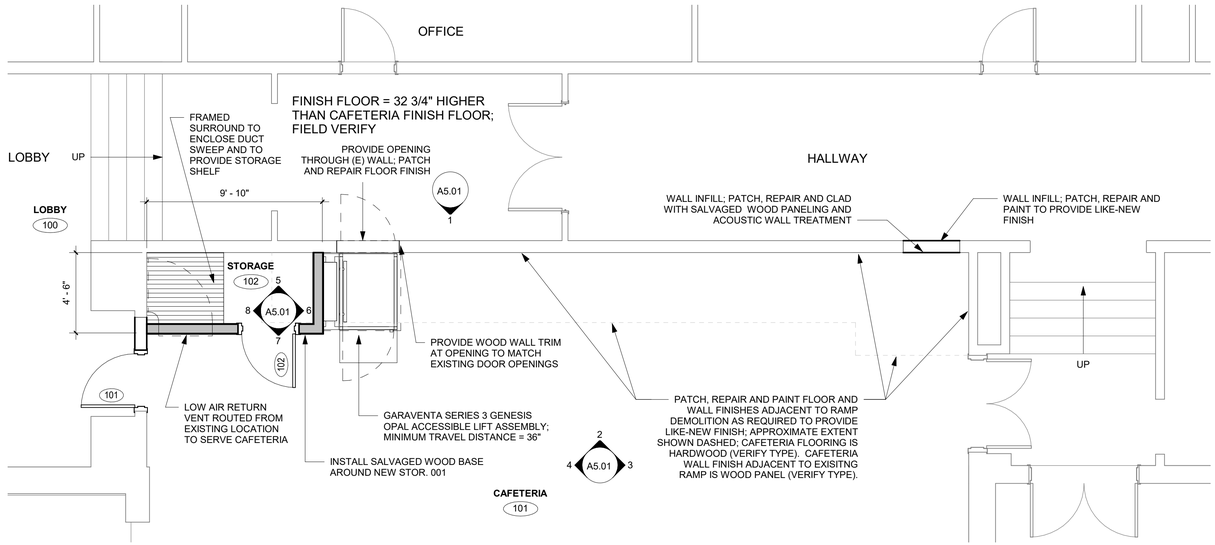
MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: SOUTH WING RESTROOM PLANS & ELEVATIONS
Drawn By: LCG
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
A2.17

SAJ ARCHITECTURE

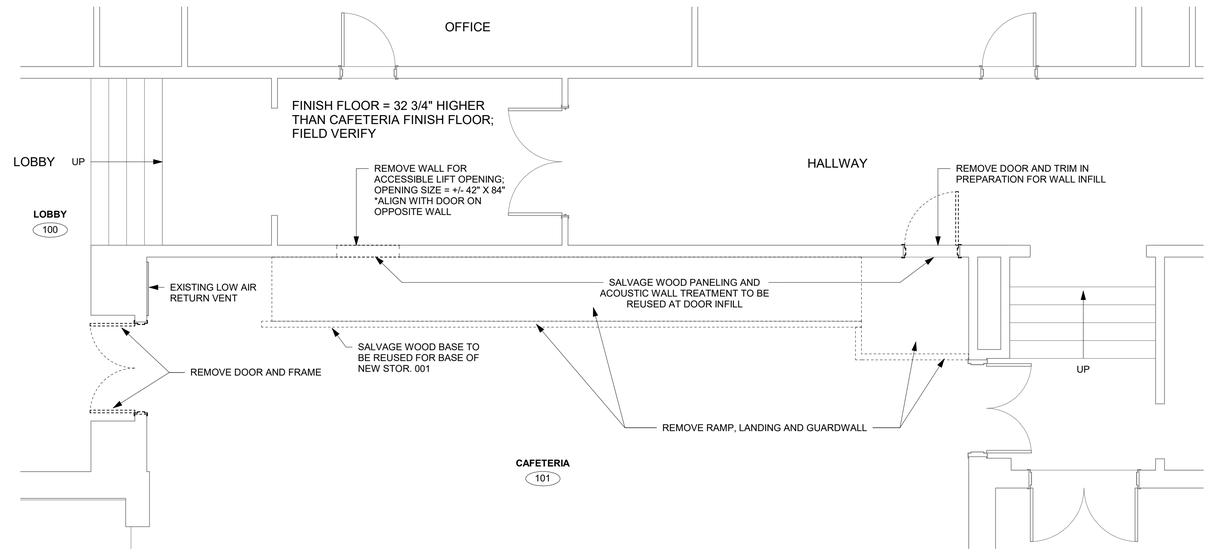
9/8/2023 12:45:57 PM



1 ACCESSIBILITY PLAN AT NORTH HALLWAY

1/4" = 1'-0" @ FULL SIZE

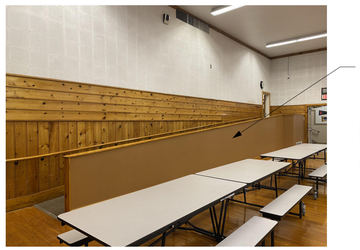
0' 1" 2" 4'



2 DEMO FLOOR PLAN - NORTH HALL AND CAFETERIA

1/4" = 1'-0" @ FULL SIZE

0' 1" 2" 4'



PATCH, REPAIR AND PAINT FLOOR AND WALL FINISHES ADJACENT TO RAMP DEMOLITION AS REQUIRED TO PROVIDE LIKE-NEW FINISH; APPROXIMATE EXTENT SHOWN DASHED; CAFETERIA FLOORING IS HARDWOOD (VERIFY TYPE). CAFETERIA WALL FINISH ADJACENT TO EXISITNG RAMP IS WOOD PANEL (VERIFY TYPE).

3 EXISTING CONDITIONS AT CAFETERIA RAMP

N.T.S.

REMOVE DOOR AND TRIM IN PREPARATION FOR WALL INFILL; PATCH, REPAIR AND PAINT WALL FINISHES; WAINSCOT CAP AND BASE TO PROVIDE LIKE NEW FINISH.

4 EXISTING CONDITIONS AT CAFETERIA UPPER ENTRY

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: ACCESSIBLE LIFT

Drawn By : LCG

Project No. 22140

Date : SEPTEMBER 11, 2023

Revised :

Sheet No.

A2.18

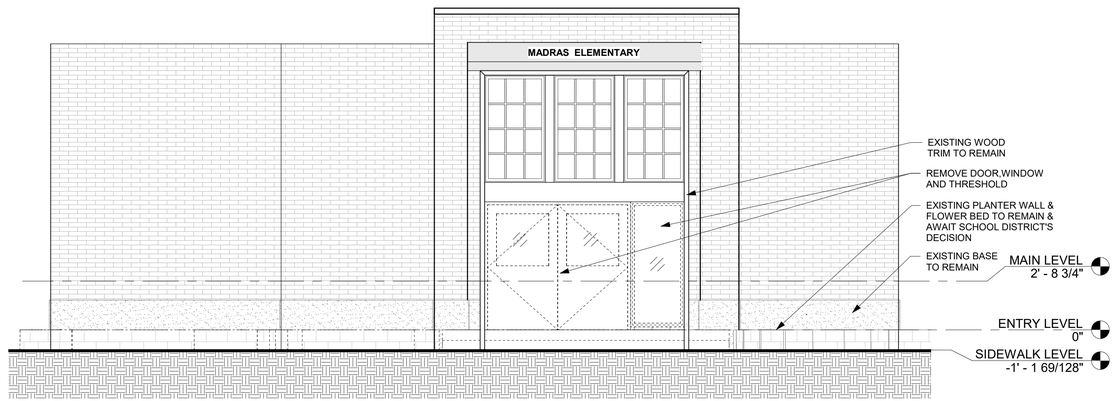
SAJ ARCHITECTURE

9/8/2023 12:45:58 PM

1 ENLARGED MAIN ENTRY - NEW ELEVATION - WEST

1/4" = 1'-0" @ FULL SIZE

0" 1" 2" 4"



2 ENLARGED MAIN ENTRY - DEMO ELEVATION - WEST

1/4" = 1'-0" @ FULL SIZE

0" 1" 2" 4"

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: EXTERIOR ELEVATIONS

Drawn By: LCG

Project No. 22140

Date: SEPTEMBER 11, 2023

Revised :

Sheet No. A3.01

9/8/2023 12:45:58 PM

SAJ ARCHITECTURE

FINISH KEY SCHEDULE					
Keynote	Mark	Description	Manufacturer	Model	Comments
092900.MRG	MRG	MOISTURE AND MOLD RESISTANT GWB	MOISTURE AND MOLD RESISTANT GYPSUM WALLBOARD		EPOXY PAINT
033600.PC	PC1	POLISHED CONCRETE	BY CONTRACTOR	REFER TO ARCHITECTURAL SPECIFICATIONS FOR PRODUCT INFORMATION	SEE ARCHITECTURAL SPECIFICATION FOR SUBSTRATE AND REQUIREMENTS
099123.PT	PT1	PAINT	BENJAMIN MOORE	1074 ALPACA	MATCH EXISTING "TAN"
099123.PT	PT2	PAINT	BENJAMIN MOORE	POPCORN TC-36	MATCH EXISTING "WHITE"
096513.RB	RB1	6" RUBBER BASE	ROPPE	100 BLACK OR EQ	
123200.SSC	SSC	STAINLESS STEEL COUNTER	STAINLESS STEEL COUNTER		
062023.WT	WT1	WOOD TRIM	BY CONTRACTOR	TRIM BOARD TO BE PAINTED TO MATCH PARTITIONS	3 1/2" TRIM TO MATCH EXISITNG

ROOM FINISH SCHEDULE

ROOM		FLOOR			WALLS								CEILING		
					NORTH		EAST		SOUTH		WEST				
NUMBER	NAME	MATERIAL	FINISH	BASE	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	NOTES
100	LOBBY	(E) CPT	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	PAINT	(E)	(E)	
101	CAFETERIA	(E) WOOD	(E)	WOOD	(E)NEW	WD/AWP	(E)	(E)	(E)	(E)	(E)NEW	WD/AWP	(E)	(E)	
102	STORAGE	(E) WOOD	(E)	RB1	(E)NEW	WD/AWP	GWB	PAINT	GWB	PAINT	(E)NEW	WD/AWP	(E)	(E)	
103	SPED RESTROOM	(E)CONC	PC1	RB1	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	
104	NORTH STAFF RR	(E)	PC1	RB1	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	
105	BOYS NORTH RESTROOM	(E)CONC	PC1	RB1	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	
106	GIRLS NORTH RESTROOM	(E)CONC	PC1	RB1	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	
107	UNISEX RESTROOM SOUTH	(E)CONC	PC1	RB1	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	(E)	PAINT	

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: FINISH SCHEDULE

Date : SEPTEMBER 11, 2023

Revised :

Drawn By : LCG

Project No. 22140

Sheet No. A5.00

SAJ ARCHITECTURE

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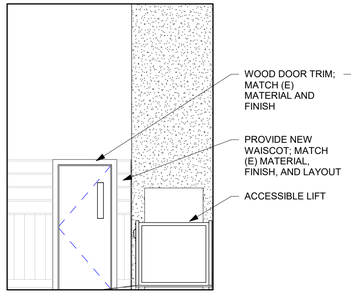
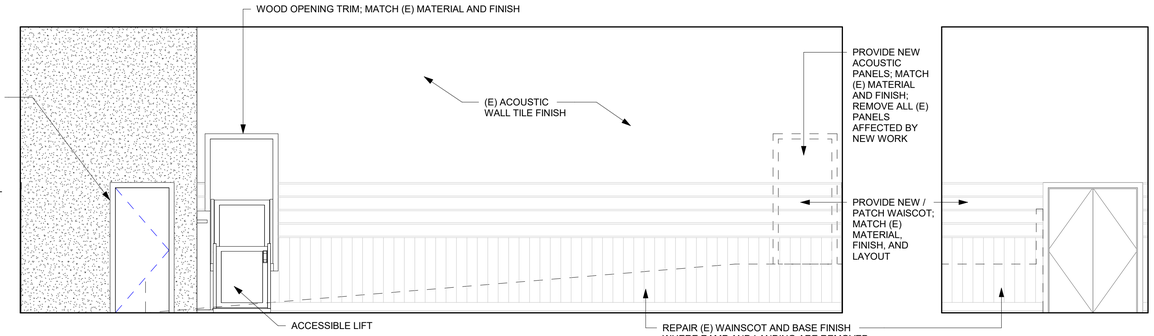


4 CAFETERIA - ELEVATION - WEST

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'



2 CAFETERIA - ELEVATION - NORTH

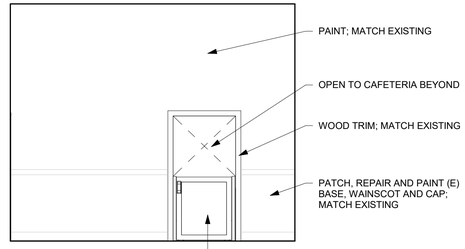
1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

3 CAFETERIA - ELEVATION - EAST

1/4" = 1'-0" @ FULL SIZE

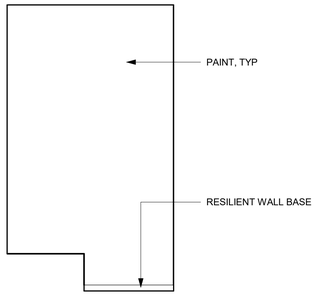
0' 1' 2' 4'



1 NORTH HALLWAY - ELEVATION - SOUTH AT LIFT

1/4" = 1'-0" @ FULL SIZE

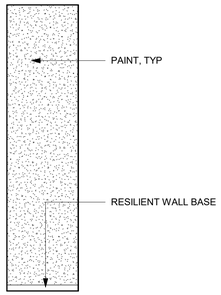
0' 1' 2' 4'



5 STORAGE ELEVATION - NORTH

1/4" = 1'-0" @ FULL SIZE

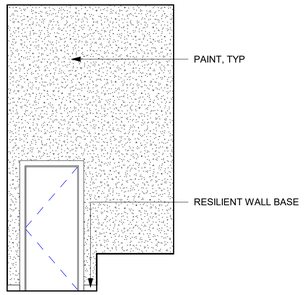
0' 1' 2' 4'



6 STORAGE ELEVATION - EAST

1/4" = 1'-0" @ FULL SIZE

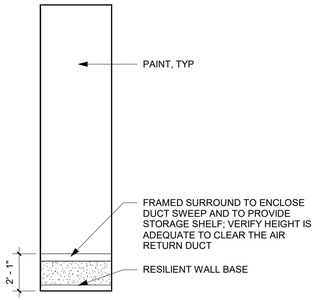
0' 1' 2' 4'



7 STORAGE ELEVATION - SOUTH

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'



8 STORAGE ELEVATION - WEST

1/4" = 1'-0" @ FULL SIZE

0' 1' 2' 4'

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: INTERIOR ELEVATIONS

Date : SEPTEMBER 11, 2023

Revised :

Drawn By : LCG

Project No. 22140

Sheet No. A5.01

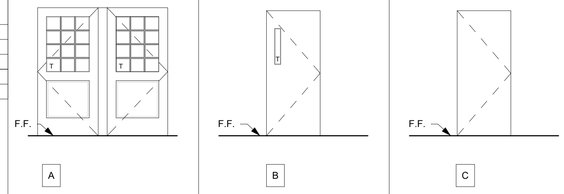
SAJ ARCHITECTURE

9/8/2023 12:46:00 PM

DOOR SCHEDULE

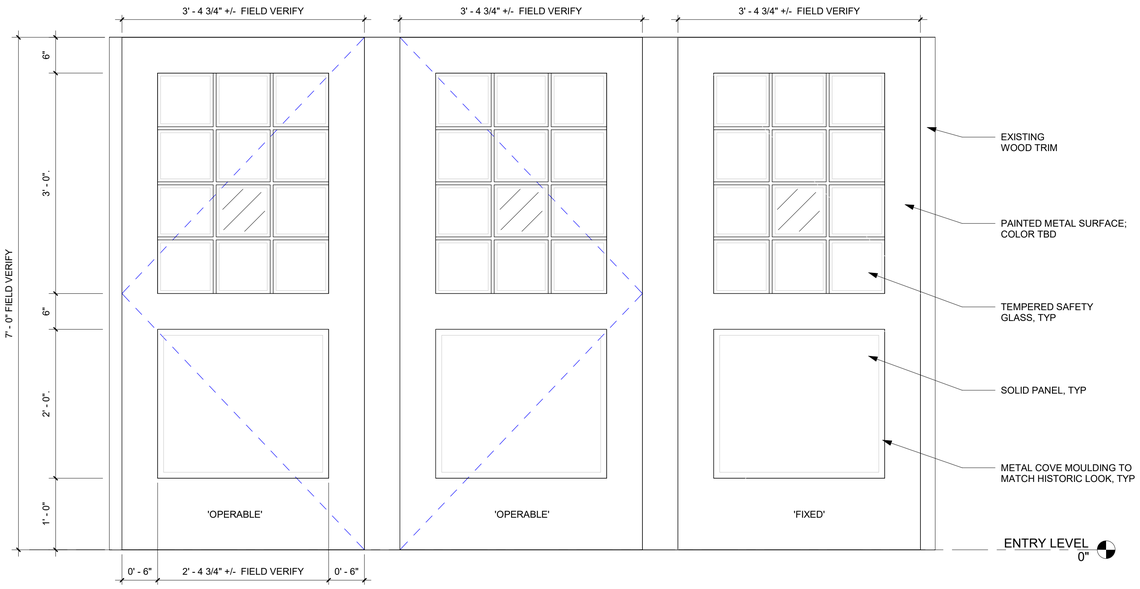
DOOR				DOOR PANEL			DOOR FRAME					
MARK	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	HRW	SHGC	U-VALUE	COMMENTS
100	7' - 3 5/8" +/-	7' - 0" VIF	1-3/4"	A	HM-IS	PT	HM-IS	PT				INSULATED DOOR PANEL; THERMALLY BROKEN, ENERGY EFFICIENT FRAME
101	3' - 0"	7' - 0"	1-3/4"	B	WD	PT	WD	PT				CAFETERIA
102	3' - 0"	7' - 0"	1-3/4"	C	WD	PT	WD	PT				STORAGE
103	3' - 0"	7' - 0"	1-3/4"	C	WD	PT	WD	PT				SPED UNISEX RESTROOM
104	3' - 0"	7' - 0"	1-3/4"	C	WD	PT	WD	PT				STAFF UNISEX RESTROOM
105	3' - 0"	7' - 0"	1-3/4"	C	WD	PT	WD	PT				SOUTH UNISEX RESTROOM

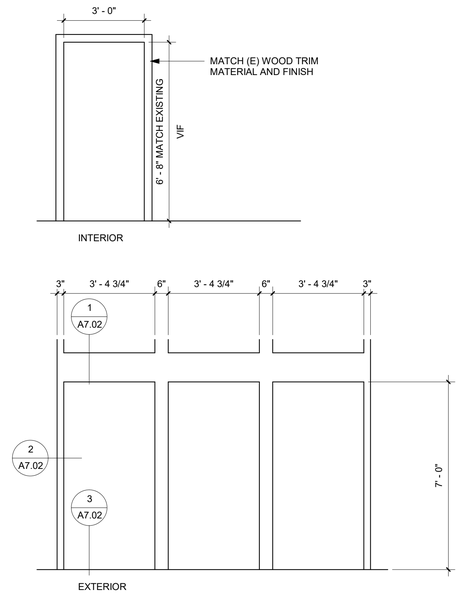
DOOR TYPES



DOOR GENERAL NOTES

A. ALL DOORS TO HAVE LEVERS FOR ACCESSIBILITY
B. ALL LABELED DOORS SHALL BE GOVERNED BY UL REQUIREMENTS AND SHALL BEAR PHYSICAL UL LABEL OF FIRE RATING SPECIFIED.
C. INTERIOR DOORS TO HAVE MAXIMUM EFFORT OF 15 LBS TO OPERATE, EXTERIOR DOORS: 8 1/2 LBS., FIRE RATED DOORS: 15 LBS., NON FIRE RATED DOORS: 5 LBS. (NOT APPLICABLE FOR SUITE DOORS)
D. VERIFY ALL PARTITION THICKNESSES PRIOR TO DETERMINING FRAME THROAT SIZES.
E. ALL DOOR FRAME DEPTH SIZE DIMENSIONS SHALL BE 1/8" GREATER ON EACH SIDE OF PARTITION WHERE SNAP-ON CASING IS SCHEDULED.
F. DOUBLE DOORS SHALL HAVE METAL ASTRAGAL.
G. ALL FIRE RATED DOOR FRAMES SHALL BE 18 GAUGE.
H. ALL VISION PANELS IN DOOR JAMBS SHALL HAVE AN 18 GUAGE STEEL FRAME.
I. COMMON AREA SIDES OF DOOR JAMBS AND WINDOW JAMBS TO RECEIVE WOOD TRIM WHILE UTILITY SIDES AND RESIDENT ROOM SIDES OF METAL JAMBS TO RECIEVE 'TIMELY' COLONIAL STYLE METAL SNAP-ON TRIM.
J. PER SECTION 715.4.3.1, ALL FIRE-RATED DOOR ASSEMBLIES SHALL ALSO MEET THE REQUIREMENTS FOR A SMOKE AND DRAFT CONTROL DOOR ASSEMBLY TESTED IN ACCORDANCE WITH UL 1784 WITH AN ARTIFICIAL BOTTOM SEAL INSTALLED ACROSS THE FULL WIDTH OF THE BOTTOM OF THE DOOR ASSEMBLY. THE AIR LEAKAGE RATE OF THE DOOR ASSEMBLY SHALL NOT EXCEED 3.0 CUBIC FEET PER MINUTE PER SQUARE OF DOOR OPENING AT 0.10 INCH OF WATER FOR BOTH THE AMBIENT TEMPERATURE TEST AND THE ELEVATED TEMPERATURE EXPOSURE TEST.
K. DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
L. ALL HAND-ACTIVATED DOOR OPENING HARDWARE SHALL MEET THE FOLOWING REQUIREMENTS:
   - CENTERED AT LEAST 34", BUT NO MORE THAN 48" A.F.F.
   - LATCHING OR LOCKING DOORS IN A PATH OF TRAVEL SHALL BE OPERATED WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE WITHOUT NEED TO GRASP HARDWARE.
   - MAXIMUM EFFORT TO OPERATE DOORS SHALL BE EQUAL TO 8 1/2 LBS AT EXTERIOR DOORS AND LESS THAN OR EQUAL TO 5 LBS AT INTERIOR DOORS.
   - RESTROOM DOORS SHALL BE PROVIDED WITH OCCUPANCY INDICATOR.
   - CONTRACTOR TO VERIFY SIZES OF ROUGH DOOR OPENINGS PRIOR TO ORDERING DOORS.



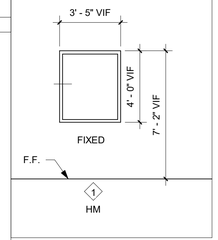


3 FRAME TYPES
N.T.S.

BID ALTERNATE #2 WINDOW SCHEDULE

WINDOW								
MARK	WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	U-VALUE	COMMENTS
A1	3' - 5"	4' - 0"	-	1	FIBERGLASS	FF		NE WING RESTROOM (BOYS & GIRLS)

WINDOW TYPES



GENERAL WINDOW NOTES

A. CONTRACTOR TO VERIFY SIZES OF ROUGH WINDOW OPENINGS PRIOR TO ORDERING WINDOWS.
B. SEE WINDOW DETAILS FOR HEAD, JAMB AND SILL CONDITIONS. COORDINATE WITH EXTERIOR ELEVATIONS FOR FINISH MATERIAL.

FINISH TAG KEY

CONSTRUCTION

HM: HOLLOW METAL
HM-IS: HOLLOW METAL; INSULATED
MFR: PER MANUFACTURER
MTL: METAL (TIMELY OR SIMILAR)
MTL-IS: INSULATED METAL
OD: OVERHEAD DOOR
WD: WOOD
WDW: WINDOW

GLASS TYPES

G-1: CLEAR TEMPERED
G-2: INSULATED
G-3: TEMPERED/INSULATED
G-4: FIRE RATED GLAZING, RATING SAME AS DOOR
G-5: OBSCURE GLAZING, TEMPERED

FINISH

P-1: PAINT COLOR FOR HM DOORS & FRAMES
P-2: PAINT, COLOR _____

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DRAWING REVISIONS

Description	Date
1	

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: DOOR AND WINDOW SCHEDULES / DETAILS
Drawn By: LCG
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
A7.01

SAJ ARCHITECTURE

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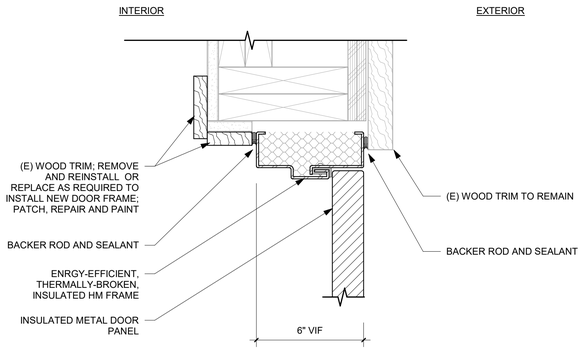
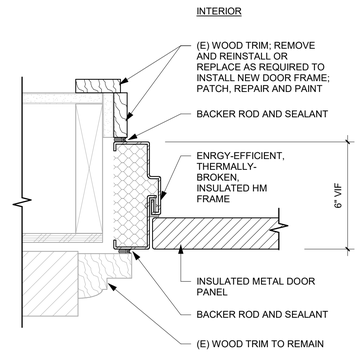


1 HEAD - HM AT MAIN ENTRY

3" = 1'-0" @ FULL SIZE

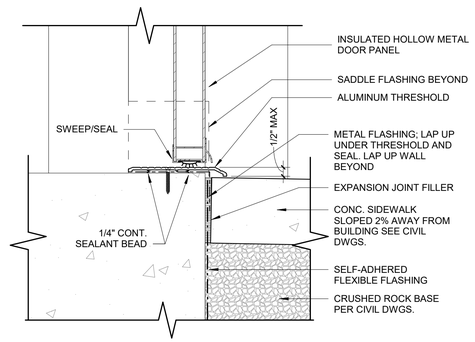
0' 1" 2" 4"



2 JAMB - HM AT MAIN ENTRY

3" = 1'-0" @ FULL SIZE

0' 1" 2" 4"



3 THRESHOLD AT MAIN ENTRY

3" = 1'-0" @ FULL SIZE

0' 1" 2" 4"

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: OPENING DETAILS

Drawn By: Author

Project No. 22140

Date : SEPTEMBER 11, 2023

Revised :

Sheet No.

A7.02

SAJ ARCHITECTURE

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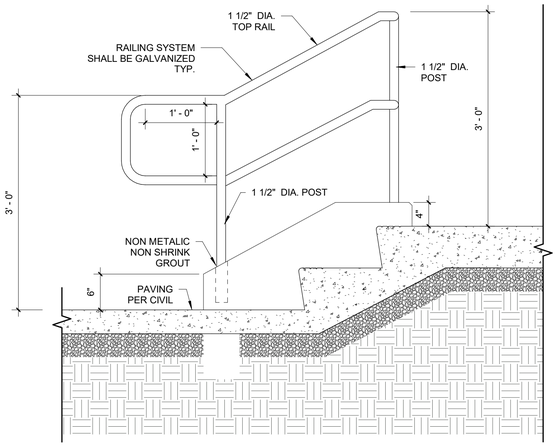
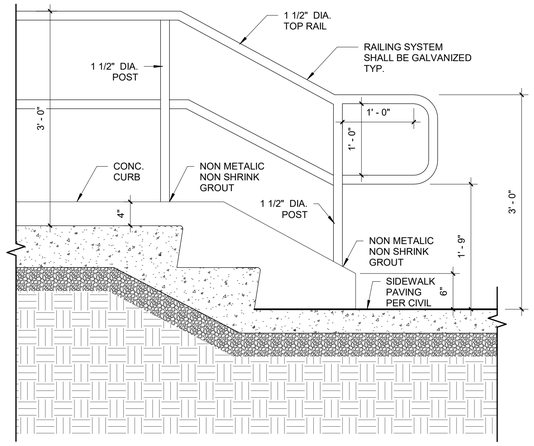


7 HANDRAIL @ EXTERIOR STAIR & RAMP

1" = 1'-0" @ FULL SIZE

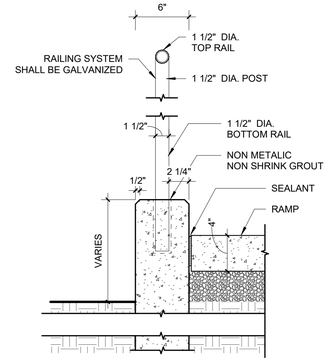
0' 3" 6" 1'



6 HANDRAIL @ EXTERIOR STAIR

1" = 1'-0" @ FULL SIZE

0' 3" 6" 1'



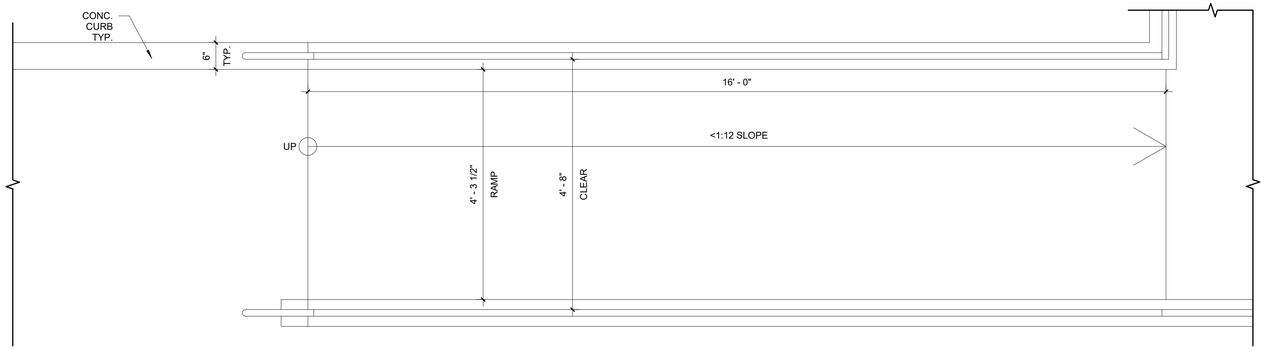
5 HANDRAIL POST @ EXTERIOR RAMP

1 1/2" = 1'-0" @ FULL SIZE

0' 2" 4" 8"

ACCESSIBLE GENERAL NOTES:

1. ACCESSIBLE RESTROOM SHALL COMPLY WITH ALL ICC A117.1-2009 REQUIREMENTS. NOT ALL REFERENCES ARE CONTAINED HEREIN AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR FOR PROPER INSTALLATION OF ALL ACCESSIBILE FEATURES AND COMPONENTS.
2. GRAB BARS SHALL HAVE AN OUTSIDE DIAMETER OF 1 1/2" AND HAVE A SPACE BETWEEN THE WALL AND THE GRAB BAR OF 1 1/2".
3. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS
4. ALLOWABLE STRESSED SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 POUNDS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTERNER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.
5. GRAB BARS, AND ANY WALL OR OTHER SURFACES ADJACENT TO GRAB BARS SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS. EDGES SHALL BE ROUNDED.
6. NEW DOORS SHALL HAVE A CLEAR OPENING OF 32" MINIMUM, MEASURED BETWEEN THE FACE OF THE DOOR AND STOP WITH THE DOOR OPEN 90 DEGREES.
7. PROJECTIONS INTO THE CLEAR OPENING WIDTH BETWEEN 34" AND 80" ABOVE THE FLOOR SHALL NOT EXCEED 4" WITH NO PROJECTIONS ALLOWED BELOW 34".
8. MINIMUM MANEUVERING CLEARANCES AT DOORS SHALL COMPLY WITH SECTION 404.2.3 AND PER DIAGRAMS ON SHEET A7.30.
9. WHERE DOOR THRESHOLDS ARE PROVIDE, SAID THRESHOLDS SHALL NOT EXCEED 1/2" IN HEIGHT.
10. DOOR OPENING FORCE FOR PULLING OR PUSHING SHALL NOT EXCEED 5.0 POUNDS.
11. DOOR SURFACES WITHIN 10" OF THE FLOOR SHALL BE A SMOOTH SURFACE AND COMPLY WITH SECTION 404.2.9



4 RAMP PLAN - DETAIL

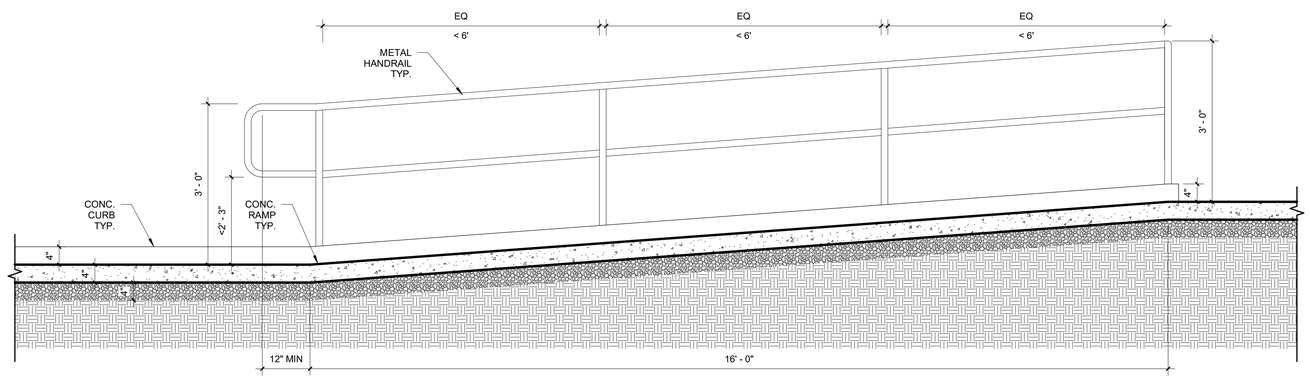
3/4" = 1'-0" @ FULL SIZE

0' 4" 8" 1'-4"

3 RISER @ EXTERIOR STAIR

1 1/2" = 1'-0" @ FULL SIZE

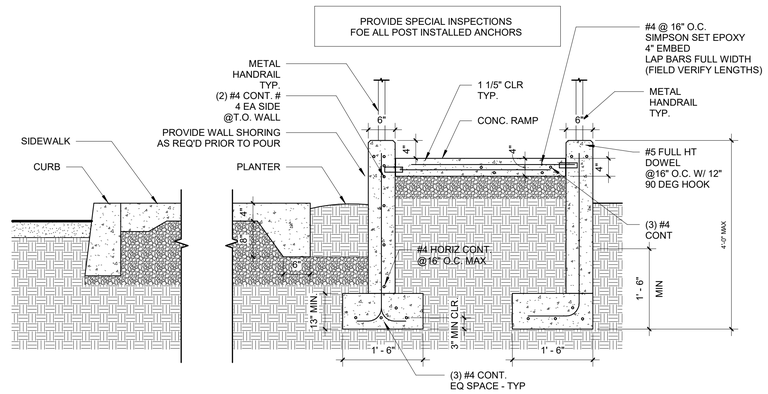
0' 2" 4" 8"



2 RAMP SECTION - HANDRAIL DETAIL B

3/4" = 1'-0" @ FULL SIZE

0' 4" 8" 1'-4"



1 RAMP SECTION - HANDRAIL DETAIL A

3/4" = 1'-0" @ FULL SIZE

0' 4" 8" 1'-4"

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#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: ENTRY RAMP & DOOR DETAILS

Drawn By: LCG

Project No. 22140

Date: SEPTEMBER 11, 2023

Revised:

Sheet No. A8.02

SAJ ARCHITECTURE

ABBREVIATIONS

ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISHED ROOF
AFS	AIR FLOW STATION
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATM	ATMOSPHERE
AWG	AMERICAN WIRE GAUGE
B	BOILER
BB	BASEBOARD
BC	BACKWARD CURVED
BD	BACKDRAFT DAMPER
BF	BOILER FEED
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOJ	BOTTOM OF JOIST
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
C	COMMON
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CCW	COUNTER CLOCKWISE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
C&I	CONTROLS & INSTRUMENTATION
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CND	CONDENSATE
CONT	CONTINUATION
CORR	CORRIDOR
CT	COOLING TOWER
CU	CONDENSING UNIT
CH	CABINET HEATER
CV	CONTROL VALVE
CVS	CONTROL VALVE STATION
CW	CLOCKWISE
dB	DECIBEL
DB	DRY BULB TEMPERATURE (°F)
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DP	DEW POINT TEMPERATURE (°F)
DX	DIRECT EXPANSION
E	EXHAUST
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (°F)
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE (°F)
F&T	FLOAT & THERMOSTATIC
FA	FACE AREA
FC	FORWARD CURVED
FC	FAN COIL
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FT	FEET
GA	GAUGE OR GAGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDIFIER
HC	HEATING COIL
HG	MERCURY
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HR	HOUR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE & BYPASS
IGV	INLET GUIDE VANES
IPS	IRON PIPE SIZE
IU	INDUCTION UNIT
KW	KILOWATTS
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE (°F)
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE (°F)
M	MOTOR OPERATED
MAU	MAKEUP AIR UNIT
MB	MIXING BOX
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MS	MINI-SPLIT
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PHC	PREHEAT COIL
PPM	PART PER MILLION
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSIA	PSI, ABSOLUTE
PSIG	PSI, GAUGE
QTY	QUANTITY
R	REGISTER
RA	RETURN AIR
RD	RADIAL DAMPER
RF	RETURN/RELIEF AIR FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SC	SENSIBLE COOLER
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SS	STAINLESS STEEL
T	THERMOSTAT
TA	TRANSFER AIR
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILL
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UNC	UNDERCUT
UV	UNIT VENTILATOR
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB TEMPERATURE (°F)
WC	WATER COLUMN
WG	WATER GAUGE
WSHP	WATER SOURCE HEAT PUMP
ΔT	TEMPERATURE DIFFERENCE (°F)

PLUMBING LEGEND

ANNOTATION SYMBOLS

- X / X — 3D VIEW NUMBER / SHEET NUMBER
- X / X — DETAIL NUMBER / SHEET NUMBER
- X / X — SECTION NUMBER / SHEET NUMBER
- PF-# — PLUMBING FIXTURE / EQUIPMENT MARK
- (PF-#) — PLUMBING FIXTURE (LOCATED ON FLOOR ABOVE)
- (E) PF-# — EXISTING PLUMBING FIXTURE / EQUIPMENT
- (D) PF-# — DEMOLISHED PLUMBING FIXTURE / EQUIPMENT
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION
- 1/4" SLOPE — DIRECTION OF FLOW AND SLOPE PER FOOT

GENERAL

- NAME (E) — EXISTING PIPE TO REMAIN
- NAME (D) — EXISTING PIPE TO BE DEMOLISHED
- NAME — NEW PIPING
- DIRECTION OF FLOW

PLUMBING

- DCW — DOMESTIC COLD WATER
- DHW — DOMESTIC HOT WATER (120°F)
- DHWR — DOMESTIC HOT WATER RECIRC.
- HTHW — HIGH TEMPERATURE HOT WATER (140°F)
- IRR — IRRIGATION
- RO — REVERSE OSMOSIS TREATED
- SAN — SANITARY WASTE
- V — SANITARY VENT
- GW — GREASE WASTE
- AW — ACID WASTE
- AV — ACID VENT
- NG — NATURAL GAS
- LPG — LIQUIFIED PETROLEUM GAS
- RWL — RAIN WATER LEADER
- ORL — RAIN WATER OVERFLOW
- CND — CONDENSATE DRAIN
- CA — COMPRESSED AIR

PIPE FITTINGS

- ELBOW
- PIPE BREAK
- PIPE UP
- PIPE DOWN
- CHANGE IN ELEVATION OF PIPE
- SIDE CONNECTION OR TEE FITTING
- TOP CONNECTION
- BOTTOM CONNECTION
- UNION
- FLANGE
- CAPPED OUTLET
- BLIND FLANGE

VALVES

- COMBINATION Y-STRAINER & SHUTOFF VALVE
- COMBINATION AUTOFLOW & SHUTOFF VALVE
- MANUAL BALANCING VALVE
- AUTOFLOW VALVE
- ISOLATION VALVE - SEE SPECIFICATIONS FOR TYPE
- 3-WAY VALVE
- BUTTERFLY VALVE
- HOSE END DRAIN
- STRAINER
- MANUAL BALANCING VALVE
- AUTOFLOW VALVE
- CHECK VALVE
- BACKFLOW PREVENTER
- PRESSURE REDUCING VALVE
- TEMPERATURE AND PRESSURE RELIEF VALVE
- S — SOLENOID VALVE
- M — 2-WAY TEMPERATURE CONTROL VALVE
- M — 3-WAY TEMPERATURE CONTROL VALVE

PIPING SPECIALTIES

- AUTOMATIC AIR VENT
- MANUAL AIR VENT - 1/4" BALL VALVE WITH 12" SOFT COPPER TUBE
- PRESSURE / TEMPERATURE PORT
- T — DDC TEMP SENSOR
- P — DDC PRESSURE SENSOR
- PIPE WELL - EMPTY
- FS — FLOW SWITCH
- PS — PRESSURE SWITCH
- P — PRESSURE GAUGE
- P — PRESSURE GAUGE & COCK
- T — TEMPERATURE GAUGE
- SCHEMATIC PUMP
- FLEXIBLE CONNECTOR
- PIPE GUIDES
- ANCHOR
- THERMAL EXPANSION LOOP
- W — WATER METER
- FLOOR CLEAN OUT
- WALL CLEAN OUT
- WATER HAMMER ARRESTER
- HOSE BIBB
- WALL HYDRANT
- IRRIGATION BLOWOUT PORT

NOTE: THIS IS A STANDARD LEGEND. NOT ALL PIPE TYPES AND SYMBOLS ARE NECESSARILY UTILIZED IN THE DRAWINGS.

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REGISTERED PROFESSIONAL ENGINEER
93757PE
OREGON
JULY 01, 2022
ERIC J. WEBBER
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EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: PLUMBING SYMBOLS AND ABBREVIATIONS
Drawn By : Author
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
P0.00

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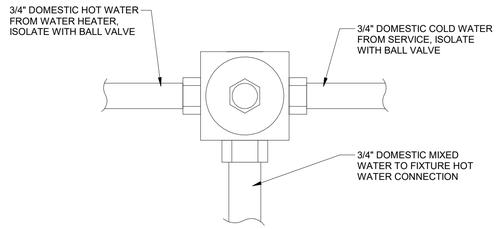
PLUMBING FIXTURE SCHEDULE

REMARKS:
1. PROVIDE ALL FIXTURES WITH APPROPRIATE COMMERCIAL GRADE SUPPORTS/CARRIERS, P-TRAPS, STOP VALVES, BRAIDED FLEXIBLE SUPPLIES, UNDER FIXTURE PIPING INSULATION AND HAMMER...
2. PROVIDE AND INSTALL TRAP PRIMERS FOR ALL FLOOR DRAINS AND FLOOR SINKS UNLESS OTHERWISE INDICATED.
3. INSTALL ALL TRAP PRIMERS IN RECESSED WALL MOUNTED BOXES IN AN ACCESSIBLE LOCATION.
4. FIELD COORDINATE INSTALLATION LOCATION OF TRAP PRIMER WALL BOXES, WATER CLOSETS, LAVATORIES, AND URINALS FOR ADA COMPLIANCY WITH ARCHITECT/ENGINEER.
5. SEE FLOOR PLANS FOR BASE AND BID ALTERNATE SCOPE OF WORK.

MARK	FIXTURE					TRIM				ROUGH-IN SIZE (IN)				REMARKS
	DESCRIPTION	ADA	MANUF.	MODEL	MATERIAL / FINISH	DESCRIPTION	MANUF.	MODEL	MATERIAL / FINISH	WASTE	VENT	COLD	HOT	
FD-1	FLOOR DRAIN	N/A	JR SMITH	2005	CAST IRON BODY / NICKEL BRONZE STRAINER	- -	- -	- -	- -	SEE PLANS	SEE PLANS	- -	- -	PROVIDE COMPLETE WITH ROUND NICKEL BRONZE STRAINER HEAD, TRAP PRIMER CONECTION, JR SMITH QUAD CLOSE TRAP SEAL, TRAP PRIMER CONNECTION, AND PIPING TO TRAP PRIMER
L-1	SOLID SURFACE BASIN - (3) FAUCETS	YES	NEO-METRO BY ACORN	3803-SO	CORTERRA POLYMER RESIN	(3) FAUCETS	MOEN	8413	BRASS/CHROME	2"	1-1/2"	1/2"	1/2"	PROVIDE COMPLETE WITH QUARTER TURN STOP VALVE, CHROME PLATED TUBULAR BRASS P-TRAP AND WATTS 1170 MIXING VALVE.
L-2	WALL MOUNT LAVATORY	YES	KOHLER	"KINGSTON" K-2005	VITREOUS CHINA	FAUCET	MOEN	8413	BRASS/CHROME	2"	1-1/2"	1/2"	1/2"	PROVIDE COMPLETE WITH KOHLER # K-7131-A OFFSET DRAIN, TRUEBRO LAV GUARD COVERS, QUARTER TURN STOP VALVE, CHROME PLATED TUBULAR BRASS P-TRAP AND WATTS 1170 MIXING VALVE.
WC-1	WALL MOUNT WATER CLOSET	YES	KOHLER	"KINGSTON" K-4325	VITREOUS CHINA	SENSOR FLUSH VALVE	SLOAN	ROYAL 111 SMO	BRASS/CHROME	3"	2"	1-1/4"	- -	PROVIDE COMPLETE WITH KOHLER MODEL # K-4670--SC-0 SEAT AND HAMMER ARRESTOR.1.28 GPF FLUSH VALVE.
WC-2	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>	<varies>



1 THERMOSTATIC MIXING VALVE DETAIL
N.T.S.

WASTE FIXTURE UNIT CALCULATION - NORTH BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WFU	TOTAL WFU
FLOOR DRAIN - 2" - 1 NEW	1	2.0	2
LAVATORY, SINGLE - DEMOLISH	-4	1.0	-4
LAVATORY, IN SETS OF TWO OR THREE - NEW	2	2.0	4
URINAL INTEGRAL TRAP 1.0 GPF* - EXISTING	3	2.0	6
WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE - 6 EXISTING, 2-NEW	8	4.0	32
	TOTAL WFU =		
		TOTAL	44 WFU
* = PROVIDE 2" MIN DRAIN ** = SIZED REGARDING OPSC TABLE 703.2		REQUIRED PIPE SIZE	4"
		EXISTING PIPE SIZE	4"

WATER SUPPLY FIXTURE UNIT CALCS - N BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WSFU	TOTAL WSFU
LAVATORY - 4 DEMOLISH, 2 NEW	2	1	2
URINAL (1.0 GPF FLUSHOMETER VALVE) - 3 EXISTING	3	10	30
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE) - 6 EXISTING, 2 NEW	8	10	80
	TOTAL WSFU =		112
MAX LENGTH: 460 FT			
WATER PRESSURE: 60 PSI			
WATER PIPE SIZE REQUIRED FOR CONNECTION 2"			
EXISTING WATER PIPE SIZE 2"			
BASED ON 2021 OPSC TABLE 610.3			

WASTE FIXTURE UNIT CALCULATION - SPED BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WFU	TOTAL WFU
LAVATORY, SINGLE - 1 DEMOLISH, 1 NEW	1	1.0	1
FLOOR DRAIN - 2"	1	2.0	2
WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE - 2 DEMOLISH, 1 NEW	1	4.0	4
	TOTAL WFU =		
		TOTAL	7 WFU
* = PROVIDE 2" MIN DRAIN ** = SIZED REGARDING OPSC TABLE 703.2		REQUIRED PIPE SIZE	3"
		EXISTING PIPE SIZE	3"

WATER SUPPLY FIXTURE UNIT CALCS - SPED BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WSFU	TOTAL WSFU
LAVATORY - 1 DEMOLISH, 1 NEW	1	1	1
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE) - 2 DEMOLISH, 1 NEW	1	20	20
	TOTAL WSFU =		21
MAX LENGTH: 460 FT			
WATER PRESSURE: 60 PSI			
WATER PIPE SIZE REQUIRED FOR CONNECTION 1-1/4"			
EXISTING WATER PIPE SIZE 1-1/4"			
BASED ON 2021 OPSC TABLE 610.3			

WASTE FIXTURE UNIT CALCULATION - ADA BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WFU	TOTAL WFU
LAVATORY, SINGLE - 1 DEMOLISH, 1 NEW	1	1.0	1
FLOOR DRAIN - 2"	1	2.0	2
WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE - 1 RELOCATED	1	4.0	4
	TOTAL WFU =		
		TOTAL	7 WFU
* = PROVIDE 2" MIN DRAIN ** = SIZED REGARDING OPSC TABLE 703.2		REQUIRED PIPE SIZE	3"
		EXISTING PIPE SIZE	3"

WATER SUPPLY FIXTURE UNIT CALCS - ADA BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WSFU	TOTAL WSFU
LAVATORY - 1 DEMOLISH, 1 NEW	1	1	1
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE) - 1...	1	20	20
	TOTAL WSFU =		21
MAX LENGTH: 460 FT			
WATER PRESSURE: 60 PSI			
WATER PIPE SIZE REQUIRED FOR CONNECTION 1-1/4"			
EXISTING WATER PIPE SIZE 1-1/4"			
BASED ON 2021 OPSC TABLE 610.3			

WASTE FIXTURE UNIT CALCULATION - UNISEX BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WFU	TOTAL WFU
LAVATORY, SINGLE - 1 DEMOLISH, 1 NEW	1	1.0	1
FLOOR DRAIN - 2"	1	2.0	2
WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE - 2 DEMOLISH, 1 NEW	1	4.0	4
	TOTAL WFU =		
		TOTAL	7 WFU
* = PROVIDE 2" MIN DRAIN ** = SIZED REGARDING OPSC TABLE 703.2		REQUIRED PIPE SIZE	3"
		EXISTING PIPE SIZE	3"

WATER SUPPLY FIXTURE UNIT CALCS - UNISEX BATH

FIXTURE	QTY	(PRIVATE, PUBLIC, OR ASSEMBLY) WSFU	TOTAL WSFU
LAVATORY - 1 DEMOLISH, 1 NEW	1	1	1
WATER CLOSET (1.6 GPF FLUSHOMETER VALVE) - 2 DEMOLISH, 1 NEW	1	20	20
	TOTAL WSFU =		21
MAX LENGTH: 460 FT			
WATER PRESSURE: 60 PSI			
WATER PIPE SIZE REQUIRED FOR CONNECTION 1-1/4"			
EXISTING WATER PIPE SIZE 1-1/4"			
BASED ON 2021 OPSC TABLE 610.3			

/saj/ Architecture
BEND / PORTLAND

REGISTERED PROFESSIONAL ENGINEER
93757PE
OREGON
JULY 01, 2022
ERIC J. WEBBER
Stamp
EXPIRES: JUNE 30, 2024

DRAWING REVISIONS
Description | Date
4

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: PLUMBING SCHEDULES & DETAILS
Drawn By : DPD
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :
Sheet No. P0.01

SAJ ARCHITECTURE

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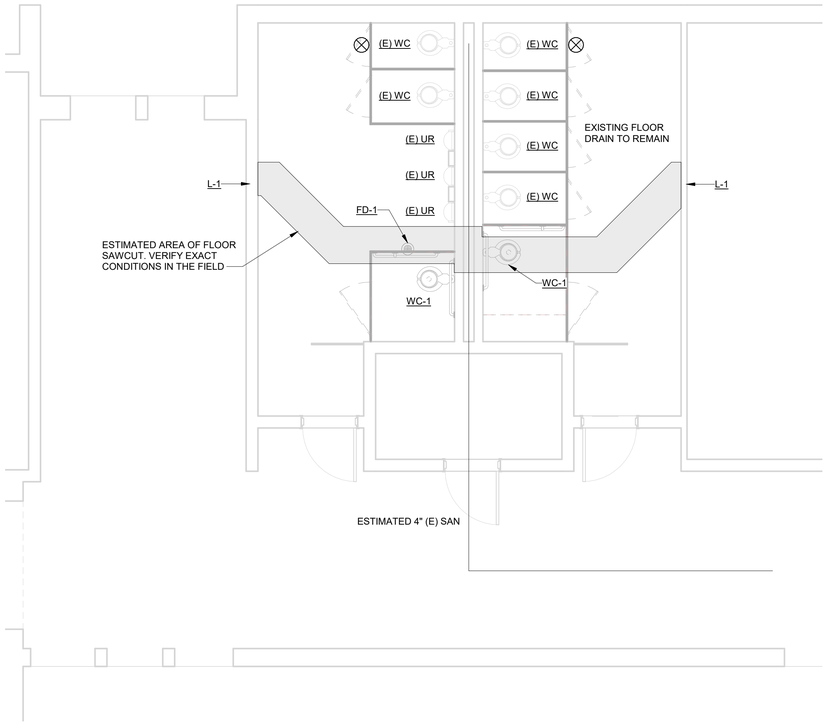
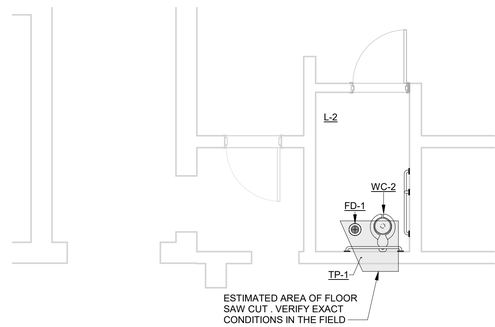


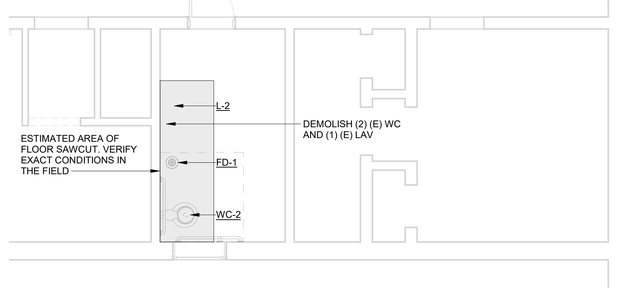
SCOPE OF WORK:
- DEMOLISH (2) EXISTING LAVATORIES IN EACH OF TWO BATHROOMS.
- PROVIDE NEW ADA WALL MOUNT FLUSH VALVE WATER CLOSET AND TOILET SEAT. WATER CLOSET TO HAVE BATTERY OPERATED SENSOR FLUSH.
- PROVIDE NEW 2" FLOOR DRAIN FD-1 IN BOYS BATHROOM ONLY. ROUTE 2" SANITARY WASTE TO CONNECT TO EXISTING. 4" SANITARY WASTE LINE TO BE MAXIMUM 6 FEET LONG, OR PROVIDE 1-1/2" VENT PIPE TO ROUTE TO CONNECT TO EXISTING IN WALL
- MODIFY WATER SUPPLY, SANITARY WASTE AND VENT CONNECTIONS.
- PROVIDE NEW WALL MOUNT ADA 3-POSITION LAVATORY WITH NEW FAUCETS AND FITTINGS.
- REROUTE ALL PLUMBING AS REQUIRED FOR CONNECTION TO NEW FIXTURE LOCATIONS.

1 PLUMBING NORTH BATH FLOOR PLAN - BID ALTERNATE #2
1/4" = 1'-0"



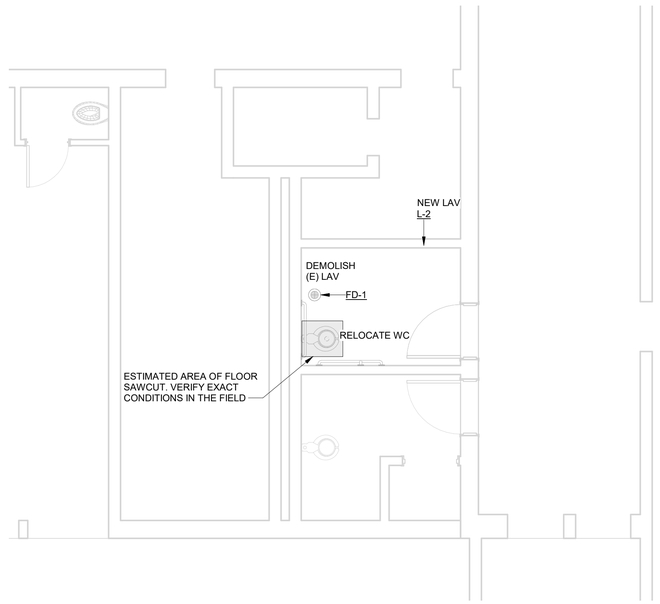
3 PLUMBING SPED UNISEX ADA BATH FLOOR PLAN - BASE BID
1/4" = 1'-0"

SCOPE OF WORK:
- DEMOLISH (2) EXISTING FLOOR MOUNTED WATER CLOSETS ON SOUTH WALL. VERIFY EXACT LOCATION IN THE FIELD.
- PROVIDE (1) NEW FLOOR MOUNT FLUSH VALVE ADA WATER CLOSET AND SEAT, WC-1 TO HAVE BATTERY POWERED SENSOR FLUSH. DISCONNECT EXISTING TOILET FLANGE AND LOCATE 2" TO SIDE AS SHOWN ON ARCHITECTURAL PLANS.
- PROVIDE NEW 2" FLOOR DRAIN FD-1. ROUTE 2" SANITARY WASTE TO CONNECT TO EXISTING. 2" SANITARY WASTE LINE TO BE MAXIMUM 6 FEET LONG, OR PROVIDE 1-1/2" VENT PIPE TO ROUTE TO CONNECT TO EXISTING IN WALL.
- MODIFY WATER SUPPLY, SANITARY WASTE AND VENT CONNECTIONS.
- PROVIDE NEW WALL MOUNT ADA LAV AND FAUCET L-2.
- REROUTE ALL PLUMBING AS REQUIRED FOR CONNECTION TO NEW FIXTURE LOCATIONS.
- RELOCATE EXISTING SURFACE MOUNTED DCW PIPING INTO SOUTH WALL OF BATHROOM.



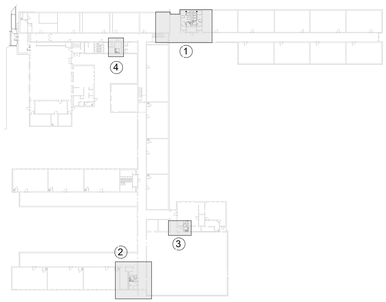
4 PLUMBING UNISEX ADA BATHROOM FLOOR PLAN - BASE BID
N.T.S.

SCOPE OF WORK:
- DEMOLISH (2) EXISTING FLOOR MOUNTED WATER CLOSETS ON WEST WALL. VERIFY EXACT LOCATION IN THE FIELD.
- PROVIDE (1) NEW FLOOR MOUNT FLUSH VALVE ADA WATER CLOSET AND SEAT, WC-1 TO HAVE BATTERY POWERED SENSOR FLUSH. DISCONNECT EXISTING TOILET FLANGE AND LOCATE AS SHOWN ON ARCHITECTURAL PLANS.
- PROVIDE NEW 2" FLOOR DRAIN FD-1. ROUTE 2" SANITARY WASTE TO CONNECT TO EXISTING. 2" SANITARY WASTE LINE TO BE MAXIMUM 6 FEET LONG, OR PROVIDE 1-1/2" VENT PIPE TO ROUTE TO CONNECT TO EXISTING IN WALL.
- MODIFY WATER SUPPLY, SANITARY WASTE AND VENT CONNECTIONS.
- PROVIDE NEW WALL MOUNT ADA LAV AND FAUCET L-2.
- REROUTE ALL PLUMBING AS REQUIRED FOR CONNECTION TO NEW FIXTURE LOCATIONS.
- RELOCATE EXISTING SURFACE MOUNTED DCW PIPING INTO SOUTH WALL OF BATHROOM.



SCOPE OF WORK:
- REMOVE (1) EXISTING FLOOR MOUNT FLUSH TANK WC, AND RELOCATE TO COMPLY WITH ADA REQUIREMENTS. SEE ARCHITECTURAL PLANS.
- PROVIDE NEW TOILET SEAT TO RAISE HEIGHT TO ADA REQUIREMENTS.
- PROVIDE NEW 2" FLOOR DRAIN FD-1. ROUTE 2" SANITARY WASTE TO CONNECT TO EXISTING. 2" SANITARY WASTE LINE TO BE MAXIMUM 6 FEET LONG, OR PROVIDE 1-1/2" VENT PIPE TO ROUTE TO CONNECT TO EXISTING IN WALL.
- MODIFY WATER SUPPLY, SANITARY WASTE AND VENT CONNECTIONS.
- PROVIDE NEW WALL MOUNT ADA LAVATORY L-2 WITH NEW FAUCET AND FITTINGS. ROUTE 2" SAN FROM NEW LAVATORY, IN WALL TO WEST PLUMBING CHASE.
- REROUTE ALL PLUMBING AS REQUIRED FOR CONNECTION TO NEW FIXTURE LOCATIONS.

2 PLUMBING SOUTH ADA BATH FLOOR PLAN - BID ALTERNATE #2
1/4" = 1'-0"



KEY PLAN

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/saj/ Architecture
BEND / PORTLAND

REGISTERED PROFESSIONAL ENGINEER
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JULY 01, 2022
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Stamp
EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: PLUMBING ENLARGED FLOOR PLANS
Drawn By: DPD
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
P2.01

SAJ ARCHITECTURE

ABBREVIATIONS

ACC	AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AF	AIR FOIL
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFR	ABOVE FINISHED ROOF
AFS	AIR FLOW STATION
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
ATC	AUTOMATIC TEMPERATURE CONTROL
ATM	ATMOSPHERE
AWG	AMERICAN WIRE GAUGE
B	BOILER
BB	BASEBOARD
BC	BACKWARD CURVED
BD	BACKDRAFT DAMPER
BF	BOILER FEED
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT
BOJ	BOTTOM OF JOIST
BOS	BOTTOM OF STEEL
BTU	BRITISH THERMAL UNIT
C	COMMON
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CCW	COUNTER CLOCKWISE
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
C&I	CONTROLS & INSTRUMENTATION
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CND	CONDENSATE
CONT	CONTINUATION
CORR	CORRIDOR
CT	COOLING TOWER
CU	CONDENSING UNIT
CH	CABINET HEATER
CV	CONTROL VALVE
CVS	CONTROL VALVE STATION
CW	CLOCKWISE
dB	DECIBEL
DB	DRY BULB TEMPERATURE (°F)
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DP	DEW POINT TEMPERATURE (°F)
DX	DIRECT EXPANSION
E	EXHAUST
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE (°F)
EC	ELECTRICAL CONTRACTOR
EDR	EQUIVALENT DIRECT RADIATION
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ELEV	ELEVATION
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE (°F)
F&T	FLOAT & THERMOSTATIC
FA	FACE AREA
FC	FORWARD CURVED
FC	FAN COIL
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FT	FEET
GA	GAUGE OR GAGE
GC	GENERAL CONTRACTOR
GEN	GENERATOR
GH	GRAVITY HOOD
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HUMIDIFIER
HC	HEATING COIL
HG	MERCURY
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HR	HOUR
HX	HEAT EXCHANGER
ID	INSIDE DIAMETER
IFB	INTEGRAL FACE & BYPASS
IGV	INLET GUIDE VANES
IPS	IRON PIPE SIZE
IU	INDUCTION UNIT
KW	KILOWATTS
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE (°F)
LF	LINEAR FEET
LWT	LEAVING WATER TEMPERATURE (°F)
M	MOTOR OPERATED
MAU	MAKEUP AIR UNIT
MB	MIXING BOX
MBD	MANUAL BALANCING DAMPER
MBH	1000 BTU/HR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MS	MINI-SPLIT
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPS	NOMINAL PIPE SIZE
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
P	PUMP
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PHC	PREHEAT COIL
PPM	PART PER MILLION
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSIA	PSI, ABSOLUTE
PSIG	PSI, GAUGE
QTY	QUANTITY
R	REGISTER
RA	RETURN AIR
RD	RADIAL DAMPER
RF	RETURN/RELIEF AIR FAN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SC	SENSIBLE COOLER
SCFM	CFM, STANDARD CONDITIONS
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE
SP	STATIC PRESSURE
SPS	STATIC PRESSURE SENSOR
SS	STAINLESS STEEL
T	THERMOSTAT
TA	TRANSFER AIR
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL PANEL
TG	TRANSFER GRILL
TOD	TOP OF DUCT
TOP	TOP OF PIPE
TOS	TOP OF STEEL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UH	UNIT HEATER
UNC	UNDERCUT
UV	UNIT VENTILATOR
VA	VOLT-AMPERE
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
WB	WET BULB TEMPERATURE (°F)
WC	WATER COLUMN
WG	WATER GAUGE
WSHP	WATER SOURCE HEAT PUMP
ΔT	TEMPERATURE DIFFERENCE (°F)

MECHANICAL LEGEND

ANNOTATION SYMBOLS

- X / X — 3D VIEW NUMBER / SHEET NUMBER
- X / X — DETAIL NUMBER / SHEET NUMBER
- X / X — SECTION NUMBER / SHEET NUMBER
- X / CFM — AIR DEVICE MARK AND CFM
- X / CFM / OBD — AIR DEVICE MARK AND CFM - PROVIDE OPPOSED BLADE DAMPER
- X / CFM / RD — AIR DEVICE MARK AND CFM - PROVIDE RADIAL DAMPER
- ME-# — MECHANICAL EQUIPMENT MARK
- (E) ME-# — EXISTING MECHANICAL EQUIPMENT
- (D) ME-# — DEMOLISHED MECHANICAL EQUIPMENT
- POINT OF NEW CONNECTION
- POINT OF DISCONNECTION

HVAC CONTROL SYMBOLS

- T — DDC THERMOSTAT
- T# — ZONED THERMOSTAT
- T#M — ZONED THERMOSTAT - MASTER
- T — THERMOSTAT W/ LOCKABLE COVER
- S — WALL SWITCH
- H — HUMIDISTAT
- T — ROOM TEMPERATURE SENSOR
- TA — ADJUSTABLE ROOM TEMPERATURE SENSOR
- TC — COMBO ROOM TEMPERATURE & CO2 SENSOR
- TC/A — ADJUSTABLE COMBO ROOM TEMP & CO2 SENSOR
- H — ROOM HUMIDITY SENSOR
- C — ROOM CO2 SENSOR
- P — BUILDING PRESSURE SENSOR
- SP — STATIC PRESSURE SENSOR
- DP — DIFFERENTIAL PRESSURE SENSOR
- CO/NO — CARBON MONOXIDE / NITRIC OXIDE SENSOR

NOTE: THIS IS A STANDARD LEGEND. NOT ALL PIPE TYPES AND SYMBOLS ARE NECESSARILY UTILIZED IN THE DRAWINGS.

HVAC DUCTWORK

- W"xD" — RECTANGULAR DUCT WIDTH x DEPTH
- X"ø — ROUND DUCT DIAMETER
- W"/D" — OVAL DUCT WIDTH/DEPTH
- X"ø — FLEXIBLE DUCT DIAMETER
- FLOOR/CEILING SUPPLY DIFFUSER
- FLOOR/CEILING RETURN GRILLE
- FLOOR/CEILING EXHAUST GRILLE
- SIDEWALL SUPPLY DIFFUSER
- SIDEWALL RETURN/EXHAUST GRILLE
- SUPPLY DUCT (SECTION VIEW)
- RETURN DUCT (SECTION VIEW)
- EXHAUST DUCT (SECTION VIEW)
- OUTDOOR AIR DUCT (SECTION VIEW)
- DUCT UP (PLAN VIEW)
- DUCT DOWN (PLAN VIEW)
- R — INCLINED RISE - IN DIRECTION OF AIRFLOW
- D — INCLINED DROP - IN DIRECTION OF AIRFLOW
- INTERNAL DUCT LINING
- ELBOW WITH TURNING VANES
- RADIUS ELBOW
- MANUAL VOLUME DAMPER
- R — REMOTE VOLUME DAMPER
- BD — BACKDRAFT DAMPER
- Z — ZONE DAMPER
- B — BYPASS DAMPER
- M — MOTORIZED DAMPER
- F — FIRE DAMPER
- FS — FIRE/SMOKE DAMPER
- S — SMOKE DAMPER

MECH. GENERAL NOTES

INSTALLATION:

A. NEW PIPING, DUCTWORK AND EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH THE CURRENTLY ADOPTED INTERNATIONAL MECHANICAL AND INTERNATIONAL BUILDING CODES.
B. EQUIPMENT SHALL BE INSTALLED LEVEL, PLUMB, AND FIRMLY ANCHORED IN LOCATIONS INDICATED ON PLAN. OBSERVE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOGNIZED INDUSTRY PRACTICES TO ENSURE THAT PRODUCTS SERVE THEIR INTENDED FUNCTION.
C. INSTALL EQUIPMENT, DUCTWORK, AND PIPING SO AS TO MAINTAIN CODE REQUIRED CLEARANCES FOR ELECTRICAL AND TELECOMMUNICATION EQUIPMENT.
D. ELEMENTS PENETRATING BUILDING COMPONENTS (ROOF ASSEMBLIES, WALL ASSEMBLIES, ETC.) SHALL BE SEALED WEATHER AND WATER TIGHT. COORDINATE PENETRATIONS WITH GENERAL CONTRACTOR TO PATCH TO THE SATISFACTION OF THE ARCHITECT OR ENGINEER.

COORDINATION:

A. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO FIELD COORDINATE THE LOCATION OF EQUIPMENT, ROUTING OF DUCTWORK, AND ROUTING OF PIPING WITH OTHER TRADES.
B. IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THE DRAWINGS OF OTHER DISCIPLINES AND PROVIDE THE NECESSARY LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
C. COORDINATE THE INSTALLATION OF GRILLES, REGISTERS AND DIFFUSERS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, THE ELECTRICAL LIGHTING PLANS, AND IF RELEVANT, THE TELECOMMUNICATION AND FIRE SPRINKLER PLANS.

ELECTRICAL COORDINATION:

A. SEE THE MEP COORDINATION SCHEDULE FOR ELECTRICAL INFORMATION. COORDINATE WITH OTHER TRADES TO ENSURE THAT ELECTRICAL DISCONNECTS, MOTOR STARTERS, VARIABLE FREQUENCY DRIVES, CONTROLS, AND ELECTRICAL ACCESSORIES ARE FURNISHED AND/OR INSTALLED BY THE APPROPRIATE TRADE.

SITE ELEVATION:

A. EQUIPMENT SHALL BE SELECTED FOR THE PROJECT ELEVATION OF 2,240'.

COMMISSIONING:

A. A COMMISSIONING AGENT IS A PART OF THIS PROJECT. REFER TO SPECIFICATION SECTION 01 91 13. REQUESTS MADE BY THE COMMISSIONING AGENT ARE REQUIRED TO BE FOLLOWED AS PART OF THIS CONTRACT WITHOUT ANY ADDITIONAL CHARGES. CONTRACTOR IS REQUIRED TO GET APPROVAL FROM ENGINEER ON ANY MODIFICATIONS, ALTERATIONS, OR CHANGES TO ANY MECHANICAL OR ELECTRICAL SYSTEM ON THIS PROJECT PRIOR TO MAKING ANY CHANGES.

HVAC SHEET INDEX

/saj/ Architecture
BEND / PORTLAND

REGISTERED PROFESSIONAL ENGINEER
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JULY 01, 2022
ERIC J. WEBBER
Stamp
EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: MECHANICAL SYMBOLS AND ABBREVIATIONS
Drawn By: DPD
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
M0.00

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CONTROLS

THE SCHOOL DISTRICT HAS HIRED ALLIANT MECHANICAL AS A THIRD-PARTY CONTROLS CONTRACTOR TO SPECIFY, INSTALL AND PROGRAM ALL NEW CONTROLS SYTSEMS WITHIN THE SCHOOL. THE CONTRACTORS SHALL COORDINATE MECHANICAL AND PLUMBING EQUIPMENT INSTALLATION WITH THE CONTROLS CONTRACTOR AS NECESSARY FOR A FULLY FUNCTIONING SYSTEM. SEE SPECIFICATION SECTIONS FROM CONTROLS CONTRACTOR FOR ADDITIONAL INFORMATION. THE CONTROLS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS SPECIFIED IN 230900 SECTION 1.2 TO THE ENGINEER AND OWNER FOR REVIEW PRIOR TO PROCUREMENT OR INSTALLATION OF ANY CONTROL COMPONENTS.

BID ALTERNATE #2

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	MFGR	SERIES	MINIMUM OUTSIDE AIR (CFM)	SUPPLY FAN				DX COOLING PERFORMANCE (HFC 410A)		NATURAL GAS HEATING PERFORMANCE (AT SEA LEVEL)				FILTER TYPE	BASIS OF DESIGN WEIGHT (LB.)	ACTION NEW (N), EXISTING (E), DEMOLISH (D)	REMARKS
				CFM	ESP (IN. WG)	DRIVE	HP	NOMINAL TONS	SEER2	INPUT (MBH)	OUTPUT (MBH)	STAGES	EFFICIENCY (%)				
RTU-1	CARRIER	48GCE	300	2000	0.5	DIRECT	1	5	16.1	110	88	2	80	MERV 13	820	N	1,2,3,4,5,6
RTU-2	CARRIER	48GCE	300	2000	0.5	DIRECT	1	5	16.1	110	88	2	80	MERV 13	820	N	1,2,3,4,5,6

NOTES:
1.) ALL INFORMATION TAKEN FROM AVAILABLE RECORD DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR TO VERIFY EXACT CONDITIONS IN THE FIELD AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES, PRIOR TO PLACING EQUIPMENT ORDERS.
2.) PROVIDE UNIT COMPLETE WITH TERMINAL STRIP FOR CONNECTION TO NEW DDC CONTROLS SYSTEM. PROVIDE 7-DAY SCHEDULE, NIGHT SET BACK AND OPTIMUM START FUNCTIONS. PROVIDE 5° F DEADBAND BETWEEN HEATING AND COOLING MODES.
3.) PROVIDE PREMIUM EFFICIENCY OR ECM MOTORS, ECONOMIZER WITH FIELD INSTALLED SENSORS, POWER EXHAUST, LOW LEAK DAMPERS, FACTORY MOUNTED DISCONNECT WITH CONVENIENCE OUTLET, SINGLE POINT ELECTRICAL CONNECTION. 14" HIGH FACTORY ROOF CURB, AND REPLACEMENT NATURAL GAS PRESSURE REGULATOR.
4.) PROVIDE ECONOMIZER FAULT DETECTION AND DIAGNOSTICS PER OREGON STATE ENERGY CODE. REPORT TO DDC SYSTEM.
5.) PROVIDE SMOKE DETECTOR AT RETURN AIR DUCT CONNECTION. SHUT DOWN RTU ON SMOKE DETECTION. PROVIDE MANUAL RESET CONTROLS.
6.) EQUIPMENT WEIGHTS INCLUDE MANUFACTURER'S 14" HIGH ROOF CURB, AND AIRSIDE ECONOMIZER.
7.) COORDINATE ALL CONTROL FUNCTION REQUIREMENTS WITH TEH CONTROLS CONTRACTOR PRIOR TO PLACING EQUIPMENT ORDERS.

EXISTING ROOF HOOD SCHEDULE

MARK	MANUFACTURER	MODEL #	TYPE	LOCATION	DRIVE	CFM	ESP (IN.WG)	DAMPER	ACTION NEW (N), EXISTING (E), DEMOLISH (D)	REMARKS
RH-1	- -	- -	PENTHOUSE	ROOFS D & E	- -	1000	- -	MODULATING	E	1,2,3

NOTES:
1.) VERIFY DAMPER SIZE AND TYPE IN THE FIELD. REPLACEMENT MOTORIZED AND MODULATING DAMPERS SHALL BE LOW LEAKAGE TYPE. MOTOR ACTUATOR BY CONTROLS CONTRACTOR TO INTERFACE WITH BMS.
2.) REUSE EXISTING ROOF CURB.
3.) ALL INFORMATION TAKEN FROM AVAILABLE RECORD DRAWINGS AND FIELD OBSERVATIONS. CONTRACTOR TO VERIFY EXACT CONDITIONS IN THE FIELD AND NOTIFY THE OWNER AND ENGINEER OF ANY DISCREPANCIES, PRIOR TO PLACING EQUIPMENT ORDERS.
4.) COORDINATE ALL CONTROL FUNCTION REQUIREMENTS WITH THE CONTROLS CONTRCATOR PRIOR TO PLACING EQUIPMENT ORDERS.

EXHAUST FAN SCHEDULE

ACCESSORIES:
1. STANDARD DISCONNECT PREWIRED.
2. FAN SPEED CONTROLLER.
3. LOW LEAKAGE MOTORIZED DISCHARGE DAMPER.
4. COMBINATION SPRING/NEOPRENE VIBRATION ISOLATION HANGERS
5. STANDARD FINISH.
6. PROVIDE ECM MOTOR WHERE AVAILABLE.

CONTROLS:
1. BAS.
2. COORDINATE ALL CONTROL FUNCTION REQUIREMENTS WITH THE CONTROLS CONTRACTOR PRIOR TO PLACING EQUIPMENT ORDER.

ELECTRICAL DATA:
SEE MEP COORDINATION SCHEDULE FOR STARTER/DISCONNECT AND ALL OTHER ELEC. DATA.

MARK	MANUF.	MODEL	AIRFLOW (CFM)	SONES	ESP (IN WC)	DRIVE	TYPE	MOUNTING	CONTROL	WEIGHT (LBS)
EF-1	LOREN COOK	SQN-D	550	7	0.0625	ECM	IN-LINE	SUSPENDED	BAS	49

MEP COORDINATION SCHEDULE

MARK	DESCRIPTION	ELECTRICAL DATA		CONTROL		NOTES	DISCONNECT / STARTER		DISCONNECT			FEEDER		CIRCUIT
		LOAD	VOLT-PHASE	TYPE	DIV		TYPE	DIV	SWITCH (AMPS)	FUSE (AMPS)	ENCLOSURE (NEMA)	COPPER WIRE (AWG)	CONDUIT (INCHES)	
MECHANICAL EQUIPMENT														
RTU-1	PACKAGED ROOFTOP UNIT	29 A	208/3	BAS	23/23	6, 8	FD	26/26	30	NOTE 6	3R	EXISTING	EXISTING	2B3-13,15,17
RTU-2	PACKAGED ROOFTOP UNIT	29 A	208/3	BAS	23/23	6, 8	FD	26/26	30	NOTE 6	3R	EXISTING	EXISTING	2B3-14,16,18
EF-1	EXHAUST FAN	0.144 HP	120/1	BAS	23/23	6	FST	26/26	20	NOTE 6	--	#12	1/2"	NEAREST CIRCUIT

CONTROL TYPE:
- BAS BUILDING AUTOMATION SYSTEM
- CO CARBON MONOXIDE DETECTOR
- CONT CONTINUOUS OPERATION
- EF INTERLOCK WITH EXHAUST FAN
- HCP HOOD CONTROL PANEL
- INT INTEGRAL
- L LIGHT SWITCH
- MS MANUAL SWITCH
- OS OCCUPANCY SENSOR
- PS PRESSURE SWITCH
- T THERMOSTAT
- TC TIME CLOCK
- UC UNIT CONTROLLER
- VE VEHICLE EXHAUST DETECTION SYSTEM
- N/A NOT APPLICABLE

DISCONNECT/STARTER TYPE:
- CB PANELBOARD CIRCUIT BREAKER WITHIN SIGHT OF EQUIPMENT
- CSFD COMBINATION STARTER/DISCONNECT - HOA
- FD FUSED DISCONNECT
- FST FUSTAT
- FW FACTORY-WIRED SINGLE POINT CONNECTION
- MOCP MOTOR OVER-CURRENT PROTECTION
- MSS MANUAL STARTER SWITCH WITH THERMAL OVERLOADS (1-, 2- OR 3-POLE AS REQUIRED)
- NFD NON-FUSED DISCONNECT
- RCPT 20A DUPLEX RECEPTACLE (GFCI PROTECTED AS REQUIRED), CORD AND
- RVSS PLUG
- VFD REDUCED VOLTAGE SOLID-STATE
- N/A VARIABLE FREQUENCY DRIVE - HOA NOT APPLICABLE

DIVISION OF RESPONSIBILITIES:
- 22/22 FURNISHED AND INSTALLED BY DIV. 22, WIRED BY DIV. 22
- 22/26 FURNISHED AND INSTALLED BY DIV. 22, WIRED BY DIV. 26
- 23/23 FURNISHED AND INSTALLED BY DIV. 23, WIRED BY DIV. 23
- 23/26 FURNISHED AND INSTALLED BY DIV. 23, WIRED BY DIV. 26
- 26/26 FURNISHED AND INSTALLED BY DIV. 26, WIRED BY DIV. 26

NOTES:
1. INTEGRAL DISCONNECTS AND OVERLOADS
2. INTEGRAL OVERLOADS
3. SINGLE POINT CONNECTION
4. PROVIDE RECEPTACLE AND DATA CONNECTION FOR PANEL
5. MOUNT ON UNI-STRUT IN FRONT OF UNIT
6. SIZE FUSES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR INSTALLED EQUIPMENT
7. INTEGRAL VARIABLE FREQUENCY DRIVE
8. DUCT SMOKE DETECTOR(S) REQUIRED. SEE GENERAL NOTE C.

GENERAL NOTES:
- A. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL CONSTRUCTION, ABOVE CEILING, OR RUN IN CONDUIT. EXPOSED CONTROL WIRING IS UNACCEPTABLE.
- B. UNLESS SPECIFICALLY NOTED, ALL FEEDERS SHALL INCLUDE A FULL SIZE NEUTRAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT BEING SUPPLIED WHETHER A NEUTRAL IS REQUIRED PRIOR TO ROUGH IN.
- C. ALL DUCT SMOKE DETECTORS FURNISHED BY DIV. 26, INSTALLED BY DIV. 23, AND WIRED BY DIV. 26. DIV. 26 SHALL WIRE ALL FANS TO SHUT DOWN WHEN ALARM IS INITIATED BY ANY DUCT SMOKE DETECTOR.

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93757PE
OREGON
JULY 01, 2022
ERIC J. WEBBER
Stamp
EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: MECHANICAL SCHEDULES
Drawn By : DPD
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
M0.01

SAJ ARCHITECTURE

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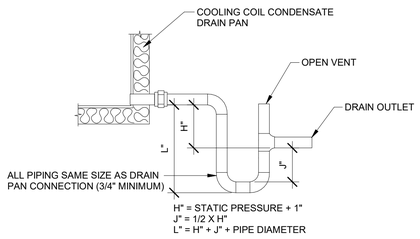

1 CONDENSATE DETAIL
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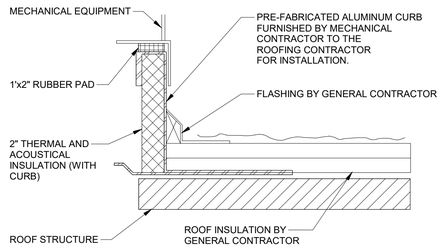

2 MECHANICAL EQUIPMENT CURB DETAIL
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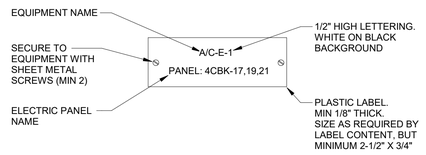

3 EQUIPMENT NAMEPLATE DETAIL
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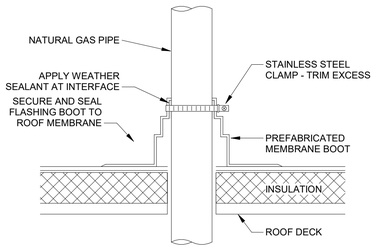

4 NATURAL GAS PIPE THRU ROOF DETAIL
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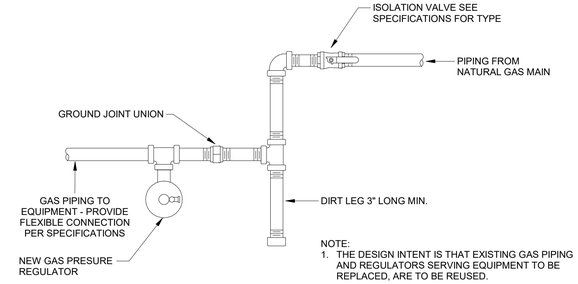

5 GAS CONNECTION DETAIL
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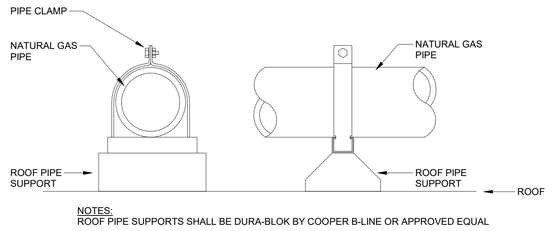

6 GAS PIPE SUPPORT DETAIL
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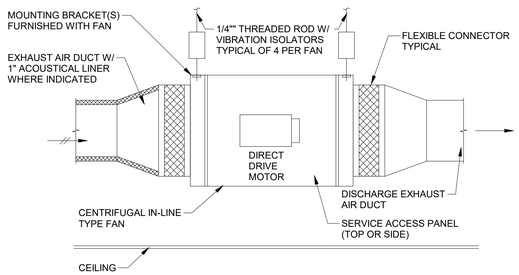

7 INLINE EXHAUST FAN DETAIL
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#	Description	Date

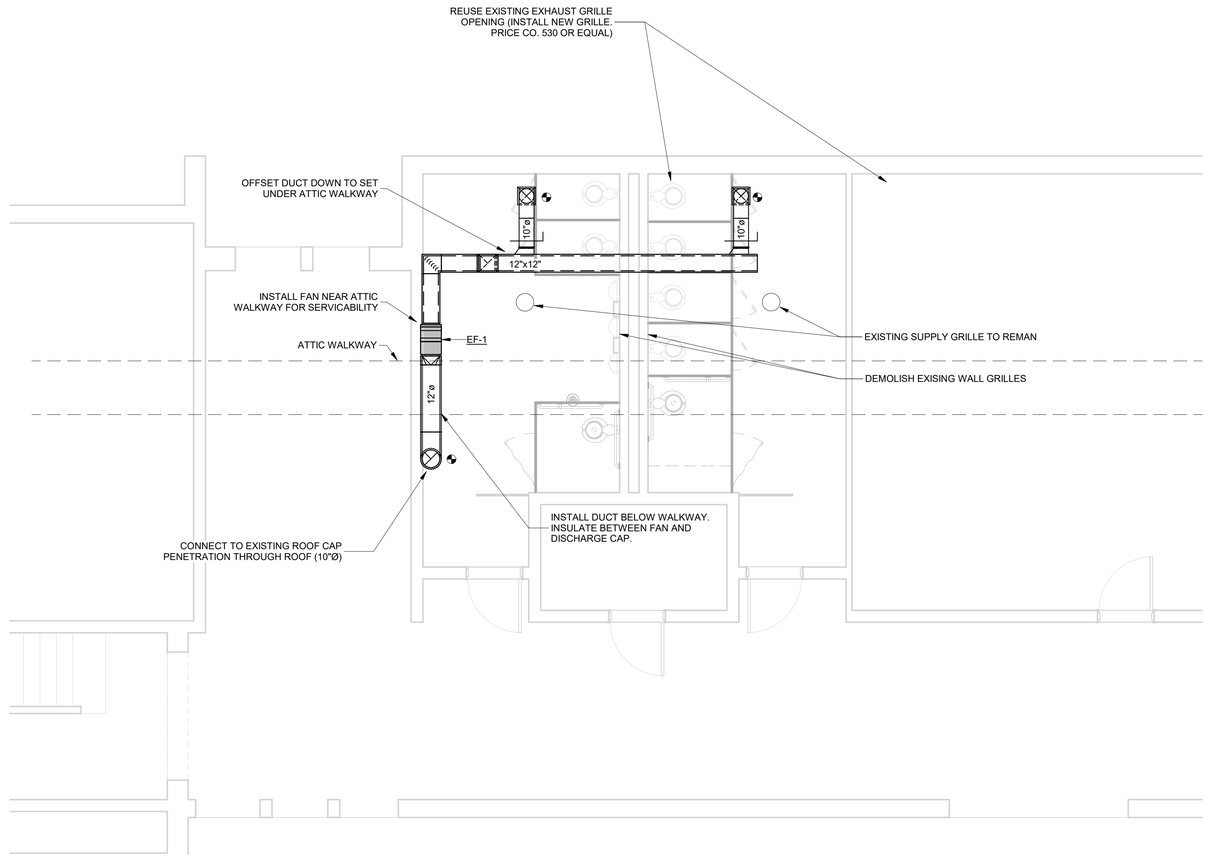
MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: MECHANICAL DETAILS
Drawn By : DPD
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :
Sheet No. M0.03

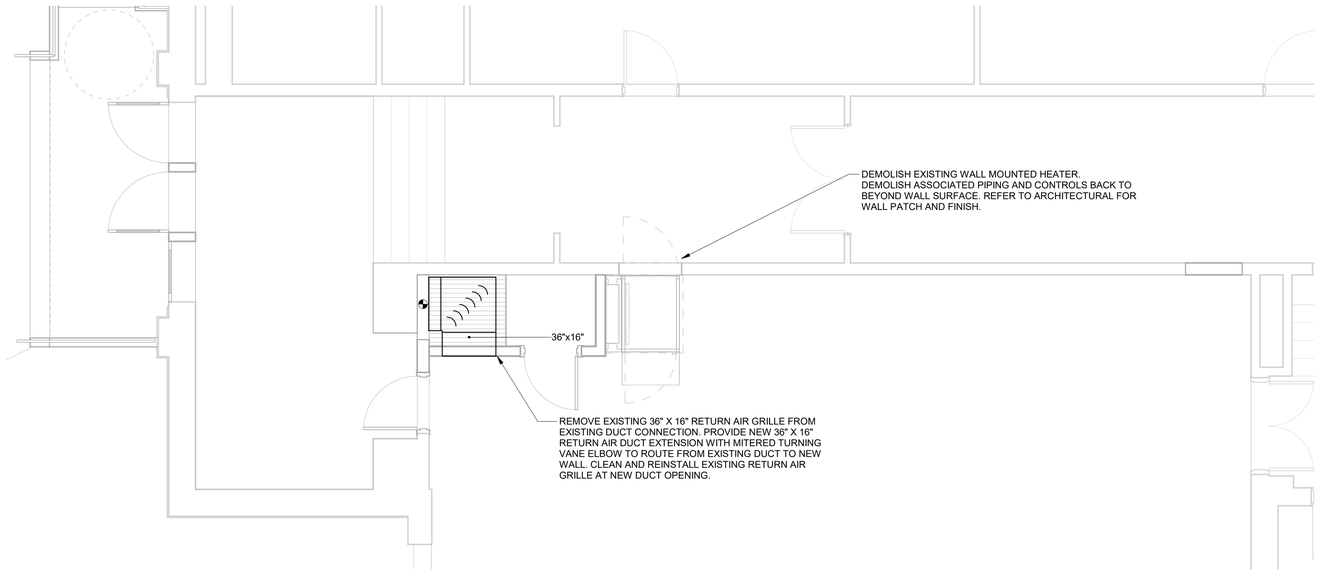
SAJ ARCHITECTURE

MECHANICAL GENERAL NOTES

A. VERIFY THE LOCATION OF THERMOSTATS AND SENSORS WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION. INSTALL THERMOSTATS 48" ABOVE FINISHED FLOOR PER ADA REQUIREMENTS.
B. PROVIDE AND INSTALL SEISMIC BRACING FOR EQUIPMENT, DUCTWORK AND PIPING PER THE REQUIREMENTS OF THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE.
C. FLEXIBLE DUCTWORK BETWEEN BRANCH DUCTS AND GRILLES, REGISTERS, OR DIFFUSERS SHALL BE LIMITED TO 5 FT. FLEXIBLE DUCT SHALL NOT BE USED IN PLACE OF ELBOWS.
D. PROVIDE AND INSTALL FIRE, SMOKE, OR COMBINATION FIRE/SMOKE DAMPERS WHERE DUCTWORK PASSES THROUGH RATED ASSEMBLIES. ASSOCIATED DUCT DETECTORS SHALL BE ADDRESSABLE. SMOKE DAMPERS AND COMBINATION SMOKE/FIRE DAMPERS SHALL INCLUDE A KEYED REMOTE TEST SWITCH LOCATED IN AN ACCESSIBLE LOCATION. FIELD COORDINATE THE LOCATION OF TEST SWITCHES WITH THE ARCHITECT AND ENGINEER PRIOR INSTALLATION.
E. SEAL DUCT AND PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH A UL-APPROVED FIRE STOP SYSTEM.
F. PROVIDE ACCESS DOORS TO ALLOW SERVICE AND INSPECTION OF EQUIPMENT, VALVES, DAMPERS AND DEVICES INSTALLED ABOVE NON-REMOVABLE CEILINGS. COORDINATE SUCH INSTALLATIONS WITH THE ARCHITECT AND ENGINEER.
G. EXPOSED DUCTWORK TO BE HOT DIPPED GALVANIZED STEEL AND PAINTED PER ARCHITECTURAL. CONTRACTOR TO CLEAN AND DRY DUCTWORK PRIOR TO PAINTING.



1 MECHANICAL PARTIAL FLOOR PLAN - NORTH BATHROOMS
1/4" = 1'-0"



2 MECHANICAL PARTIAL FLOOR PLAN - CAFETERIA
N.T.S.

KEY PLAN

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#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: MECHANICAL PARTIAL FLOOR PLAN
Date : SEPTEMBER 11, 2023
Drawn By : DPD
Project No. 22140
Revised :

Sheet No.
M2.01

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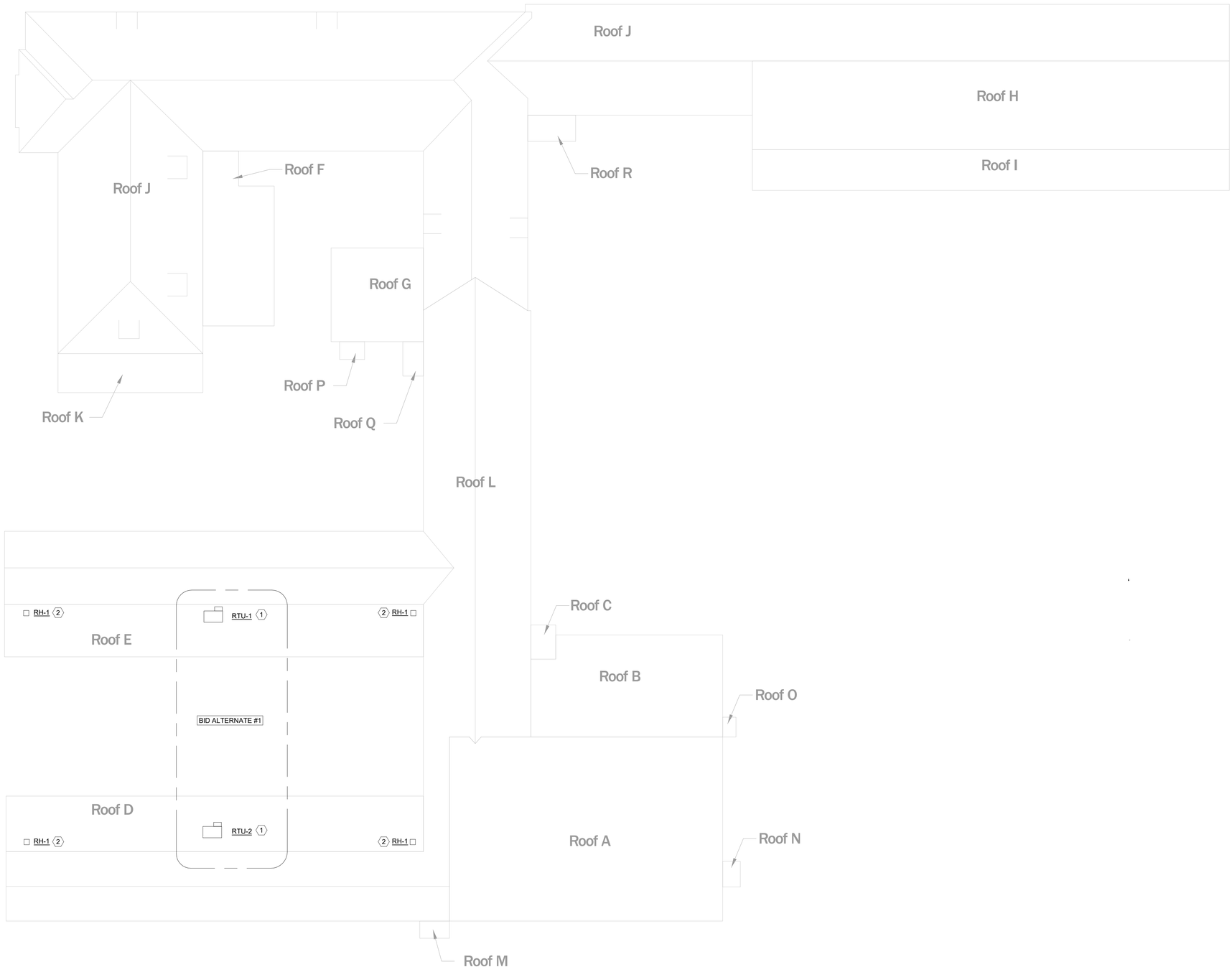

1 ROOF PLAN HVAC
N.T.S.

MECHANICAL GENERAL NOTES

A. VERIFY THE LOCATION OF THERMOSTATS AND SENSORS WITH THE ARCHITECT AND ENGINEER PRIOR TO INSTALLATION. INSTALL THERMOSTATS 48" ABOVE FINISHED FLOOR PER ADA REQUIREMENTS.
B. PROVIDE AND INSTALL SEISMIC BRACING FOR EQUIPMENT, DUCTWORK AND PIPING PER THE REQUIREMENTS OF THE CURRENTLY ADOPTED INTERNATIONAL BUILDING CODE.
C. FLEXIBLE DUCTWORK BETWEEN BRANCH DUCTS AND GRILLES, REGISTERS, OR DIFFUSERS SHALL BE LIMITED TO 5 FT. FLEXIBLE DUCT SHALL NOT BE USED IN PLACE OF ELBOWS.
D. PROVIDE AND INSTALL FIRE, SMOKE, OR COMBINATION FIRE/SMOKE DAMPERS WHERE DUCTWORK PASSES THROUGH RATED ASSEMBLIES. ASSOCIATED DUCT DETECTORS SHALL BE ADDRESSABLE. SMOKE DAMPERS AND COMBINATION SMOKE/FIRE DAMPERS SHALL INCLUDE A KEYED REMOTE TEST SWITCH LOCATED IN AN ACCESSIBLE LOCATION. FIELD COORDINATE THE LOCATION OF TEST SWITCHES WITH THE ARCHITECT AND ENGINEER PRIOR INSTALLATION.
E. SEAL DUCT AND PIPE PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH A UL-APPROVED FIRE STOP SYSTEM.
F. PROVIDE ACCESS DOORS TO ALLOW SERVICE AND INSPECTION OF EQUIPMENT, VALVES, DAMPERS AND DEVICES INSTALLED ABOVE NON-REMOVABLE CEILINGS. COORDINATE SUCH INSTALLATIONS WITH THE ARCHITECT AND ENGINEER.
G. EXPOSED DUCTWORK TO BE HOT DIPPED GALVANIZED STEEL AND PAINTED PER ARCHITECTURAL. CONTRACTOR TO CLEAN AND DRY DUCTWORK PRIOR TO PAINTING.

(#) KEY NOTES:

1. EXISTING RTU TO BE REMOVED COMPLETE WITH ROOF CURB. NEW RTU TO BE PROVIDED WITH NEW ROOF CURB. DISCONNECT AND RECONNECT EXISTING GAS PIPING AND DUCTWORK. PROVIDE SHEET METAL DUCTWORK OFFSETS AS REQUIRED TO CONNECT TO MAINS SUPPLY AND RETURN DUCTWORK BELOW ROOF LEVEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT ROUTING. DUCTWORK SHALL BE INSTALLED PER SMACNA RECOMENDATIONS.

2. EXISTING ROOF VENTS TO BE REMOVED FROM ROOF. RETAINING EXISTING ROOF CURB. STORE VENTS IN A CLEAN, DRY, SECURE LOCATION. REINSTALL VENTS ON EXISTING ROOF CURB FOLLOWING REROOF. CONTRACTOR TO VERIFY CORRECT OPERATION OF ALL VENTS AND ASSOCIATED EQUIPMENT PRIOR TO REMOVAL FROM ROOF. ANY EQUIPMENT NOT IN FULL OPERATIONAL CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER. ALL EQUIPMENT SHALL BE RETURNED TO FULL OPERATIONAL CONDITION.

NOTE:
1. CARRIER IS THE BASIS OF DESIGN MANUFACTURER FOR ALL RTU UNITS. ALTERNATE APPROVED MANUFACTURERS ARE LISTED IN SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DUCTWORK, PIPING, ELECTRICAL OR STRUCTURAL MODIFICATIONS REQUIRED IF THE BASIS OF DESIGN EQUIPMENT IS NOT PROVIDED.

2. ALL EQUIPMENT SHOWN IN APPROXIMATE LOCATIONS BASED ON OBSERVATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY EXACT CONDITIONS ON SITE.

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DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: MECHANICAL ROOF PLAN
Drawn By : DPD
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
M2.02

SAJ ARCHITECTURE

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ELECTRICAL ABBREVIATIONS LEGEND

A, AMP	AMPERES	MAG	MAGNETIC STARTER
AC	ALTERNATING CURRENT	MAN	MANUAL
A/C	AIR CONDITIONING	MAX	MAXIMUM
AF	AMP FUSE	MC	MECHANICAL CONTRACTOR
AFC	AVAILABLE FAULT CURRENT	MCA	MINIMUM CIRCUIT AMPACITY
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MDP	MAIN DISTRIBUTION PANEL
AFG	ABOVE FINISHED GRADE	MECH	MECHANICAL
AHU	AIR HANDLING UNIT	MEP	MECHANICAL, ELECTRICAL, PLUMBING
AL	ALUMINUM	MH	METAL HALIDE
AS	AMP SWITCH	MIN	MINIMUM
ATS	AUTOMATIC TRANSFER SWITCH	MSS	MOTOR STARTER SWITCH WITH THERMAL OVERLOADS
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL
BKR	BREAKER	NC	NORMALLY CLOSED
BOF	BOTTOM OF FIXTURE	NEC	NATIONAL ELECTRIC CODE
C	RACEWAY/CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CB	CIRCUIT BREAKER		
CCT	COLOR RENDERING TEMPERATURE	NFD	NON-FUSED DISCONNECT
CCTV	CLOSED CIRCUIT TELEVISION	NIC	NOT IN CONTRACT
CKT	CIRCUIT	NO	NORMALLY OPEN
CLG	CEILING	#	NUMBER
C.O.	RACEWAY/CONDUIT ONLY, WITH PULL STRING	OAE	OR APPROVED EQUAL
COD	CENTER OF DEVICE	OC	ON CENTER
CNTRL	CONTROL	OCPD	OVERCURRENT PROTECTIVE DEVICE
CU	COPPER	OH	OVERHEAD
(D)	EXISTING TO BE DEMOLISHED	P	POLE
DISC	DISCONNECT	PB	PUSHBUTTON
DIST	DISTRIBUTION	PC	PLUMBING CONTRACTOR
DPDT	DOUBLE POLE DOUBLE THROW	PH	PHASE
DWG	DRAWING	PNL	PANEL
EA	EACH	PVC	POLYVINYL CHLORIDE CONDUIT
EC	ELECTRICAL CONTRACTOR	PWR	POWER
EF	EXHAUST FAN	(R)	EXISTING TO REMAIN
ELEC	ELECTRIC	RCPT	RECEPTACLE
EMT	ELECTRICAL METALLIC TUBING	RECEPT	RECEPTACLE
EQUIP	EQUIPMENT	RGS	RIGID GALVANIZED STEEL
EX, EXIST	EXISTING	RM	ROOM
FA	FIRE ALARM	RVNR	REDUCED VOLTAGE NON-REVERSING
FAA	FIRE ALARM ANNUNCIATOR	RVR	REDUCED VOLTAGE REVERSING
FACP	FIRE ALARM CONTROL PANEL	SP	SINGLE POLE TOGGLE SWITCH
FD	FUSED DISCONNECT	SPD	SURGE PROTECTIVE DEVICE (TVSS)
FLR	FLOOR	SPEC	SPECIFICATION
FO	FIBER OPTIC	SPST	SINGLE POLE SINGLE THROW
FSD	FIRE SMOKE DAMPER RELAY, CONTROLLED BY ASSOCIATED SMOKE DETECTOR AND CIRCUITED BACK TO FACP	SSPB	START-STOP PUSHBUTTON
		SW	SWITCH
		SWBD	SWITCHBOARD
FVNR	FULL VOLTAGE NON-REVERSING	SWGR	SWITCHGEAR
FVR	FULL VOLTAGE REVERSING	TB	TELEPHONE BOARD
GEC	GROUNDED ELECTRODE CONDUCTOR	TC	TIME CLOCK
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TD	TIME DELAY
GFI	GROUND FAULT INTERRUPTER	TEL	TELEPHONE
GFP	GROUND FAULT PROTECTION	TR	TAMPER RESISTANT
GND	GROUND	TSP	TWISTED SHIELDED PAIR
GRC	GALVANIZED RIGID CONDUIT	TTB	TELEPHONE TERMINAL BOARD
HID	HIGH INTENSITY DISCHARGE	TYP	TYPICAL
HOA	HAND-OFF-AUTOMATIC	UG	UNDERGROUND
HP	HORSEPOWER	UH	UNIT HEATER
HPS	HIGH PRESSURE SODIUM	UNO	UNLESS NOTED OTHERWISE
HTR	HEATER	V	VOLT
HVAC	HEATING, VENTILATION & AIR CONDITIONING	VA	VOLT-AMPERES
HZ	HERTZ	VFD	VARIABLE FREQUENCY DRIVE
J-BOX	JUNCTION BOX	W	WATTS
KVA	KILOVOLT-AMPERES	WAO	WORK AREA OUTLET
KW	KILOWATTS	WP	WEATHERPROOF
LCP	LIGHTING CONTROL PANEL	W/O	WITHOUT
LPW	LUMENS PER WATT	XFMR	TRANSFORMER
LTG	LIGHTING	Y	WYE-CONNECTED
LM	LUMENS	Δ	DELTA-CONNECTED
LV	LOW VOLTAGE	ø	PHASE

ELECTRICAL LOW VOLTAGE LEGEND

FIRE ALARM SYSTEM	
PS	SPRINKLER PRESSURE SWITCH
FS	SPRINKLER FLOW SWITCH
TS	SPRINKLER TAMPER SWITCH
H	HEAT DETECTOR
SD	SMOKE DETECTOR - PHOTO-ELECTRIC
SD D	DUCT SMOKE DETECTOR
SS	SINGLE-STATION SMOKE DETECTOR. PROVIDE 120V AND MONITOR AT FACP VIA RELAY.
CO	CARBON MONOXIDE DETECTOR
D	DOOR HOLDER
F	MANUAL STATION (MOUNT AT +48", UNO)
F F	STROBE - WALL MOUNT (+90"), CEILING MOUNT
H/S H/S	HORN/STROBE - WALL MOUNT (+90"), CEILING MOUNT
S S	SPEAKER STROBE - WALL MOUNT (+90"), CEILING MOUNT

TELEPHONE/DATA SYSTEM	
	TELEPHONE OUTLET (MOUNT AT +18", UNO). SEE NOTE.
	VOICE-DATA OUTLET (MOUNT AT +18", UNO). SEE NOTE.
	DATA OUTLET (MOUNT AT +18", UNO). SEE NOTE.
AP	WIRELESS ACCESS POINT
	CABLE TRAY OR BASKET TRAY - LENGTH AND HEIGHT PER PLAN

NOTE: PROVIDE ROUGH-IN ONLY. 4-SQUARE BOX WITH MUD RING & 1" C. STUBBED UP TO ACCESSIBLE CEILING SPACE.

SECURITY SYSTEM	
CR	CARD READER - SEE ELECTRICAL DETAILS FOR ROUGH-IN (MOUNT AT +48", OR MATCH ADJACENT DOOR ACCESS CONTROL)
RE	REQUEST TO EXIT MOTION DETECTOR
DC	DOOR CONTACTS
ES	ELECTRIC STRIKE
EL	ELECTRIC LOCK
MD	MOTION DETECTOR
GB	GLASS BREAK DETECTOR
C	CCTV CAMERA - CEILING MOUNT OR WALL MOUNT. SEE NOTE.

NOTE: PROVIDE ROUGH-IN ONLY. 2-GANG BOX WITH MUD RING & 1" C. STUBBED UP TO ACCESSIBLE CEILING SPACE.

ELECTRICAL ONE-LINE LEGEND

M	CT AND CUSTOMER POWER METER		AUTOMATIC TRANSFER SWITCH
M	MOTOR	VFD	VARIABLE FREQUENCY DRIVE
M	UTILITY ELECTRIC METER AND BASE (BASE BY CUSTOMER)		FIXED MOUNT LV BREAKER
SPD	SURGE PROTECTION DEVICE		FUSED SWITCH ("XXAS/XXAF" - SW AND FUSE AMP RATING)
L	LIGHTNING ARRESTER, TYPE 1 SPD, MOUNTED ON EXTERIOR OF MAIN SWITCHGEAR (SQUARE D. SDSA SERIES, OAE)	G	GENERATOR
		CB	WALL MOUNTED BREAKER
	STRESS RELIEF CONE		THERMAL OVERLOAD ELEMENT
PFC	POWER FACTOR CORRECTION CAPACITOR		DISCONNECT SWITCH ("XXAS" = SWITCH AMP RATING)
$X	EQUIPMENT TOGGLE DISCONNECT SWITCH "X" INDICATES TYPE: F - FUSTAT M - MOTOR STARTER SWITCH W/ THERMAL OVERLOADS		FUSED DISCONNECT SWITCH ("XXAS/XXAF" = SW AND FUSE AMP RATING)
	CONTACTOR NORMALLY OPEN, NORMALLY CLOSED		COMBINATION MOTOR STARTER (STR SIZE, TYP, AS, AF, SEE MEP COORDINATION SCHEDULE)
	TRANSFORMER, 3-PH, 3-WIRE DELTA CONNECTION	100 A 120/208 V 3Φ 4W	SWITCHBOARD OR PANELBOARD; NAME, VOLTAGE, PHASE, NUMBER OF WIRES WHEN INDICATED
	TRANSFORMER, 3-PH, 4-WIRE GROUNDED WYE CONNECTION		

ELECTRICAL POWER LEGEND

D-1 X	PANEL AND CIRCUIT DESIGNATION ARE SHOWN NEXT TO EACH DEVICE (PANEL NAME - CIRCUIT NUMBER). BRANCH CIRCUIT WIRE SIZE IS #12, UNO. A SINGLE INSULATED GREEN GROUND CONDUCTOR SHALL BE PROVIDED WITH EACH HOME RUN. PROVIDE A SEPARATE NEUTRAL FOR EACH CIRCUIT. HOME RUNS SHALL HAVE NO MORE THAN THREE CIRCUITS. LINE VOLTAGE AND LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS. FOR EQUIPMENT CIRCUITING, SEE MEP COORDINATION SCHEDULE. "X" INDICATES TYPE: GFI - GROUND FAULT INTERRUPTER WP - WEATHERPROOF WHILE-IN-USE COVER U - PROVIDE WITH (2) USB PORTS TR - TAMPER RESISTANT		PANELBOARD OR LOAD CENTER
			SPECIAL PURPOSE RECEPTACLE (MOUNT AT +18", UNO) "X" INDICATES TYPE: A - NEMA 5-20R, #12 CU; B - NEMA 5-30R, #10 CU; C - NEMA 5-50R, #6 CU; D - NEMA 6-20R, #12 CU; E - NEMA 6-30R, #10 CU; F - NEMA 6-50R, #6 CU; G - NEMA 14-20R, #12 CU; H - NEMA 14-30R, #10 CU; I - NEMA 14-50R, #6 CU* * +4" AFF FOR RANGE
	SIMPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)		
	DUPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)		PUSHBUTTON (MOUNT AT +48", UNO) "X" INDICATES TYPE: EPO - EMERGENCY POWER OFF ADA - HANDICAPPED ACCESSIBLE DOOR (DEVICE BY OTHERS) ODO - OVERHEAD DOOR OPERATOR (DEVICE BY OTHERS)
	QUADRUPLEX RECEPTACLE - CEILING MOUNT, WALL MOUNT (+18", UNO)		FLATSCREEN TV BOX; 3-GANG, FLUSH IN WALL, PASS & SEYMOUR TV3WMTVSSW. DUPLEX RECEPTACLE & 2-SINGLE GANG DATA/ LOW VOLTAGE OPENINGS. PROVIDE BLANK COVERS FOR LOW VOLTAGE OPENINGS AND ROUTE AN 1-1 1/4" EMPTY C. TO CENTER OPENING AND 1-1" EMPTY C. TO SIDE OPENING. CONDUITS START AT THE TOP OF GANG OPENING IN WALL AND ROUTE INTO ACCESSIBLE CEILING SPACE. MOUNT BOX AT +72", UNO
	ABOVE COUNTER RECEPTACLE - MOUNT AT +4" ABOVE BACKSPLASH		
X	FLOOR BOX WITH (2) DUPLEX RECEPTACLES - FURNISH WITH (1) 3/4" MIN. CONDUIT FOR POWER FROM BOX. "X" INDICATES TYPE: A - 4-GANG FLOOR BOX, CORROSION RESISTANT COATING FOR CONCRETE* FLOORS (3" MIN. POUR DEPTH), (HUBBELL NO. CFB4G30CR, OAE) B - 4-GANG FLOOR BOX FOR RAISED ACCESS FLOORS, (HUBBELL NO. AFB4G50, OAE) C - FIRE RATED POKE-THROUGH FLOOR BOX FOR ELEVATED CONCRETE* SLABS, 3" DIA. CORE (HUBBELL NO. PT7FSD, OAE) D - 8" DIA., FIRE RATED POKE-THROUGH FLOOR BOX FOR ELEVATED CONCRETE* SLABS, (HUBBELL NO. S1R8PTFIT3, OAE) E - FLUSH, ROUND SINGLE SERVICE FLOOR BOX FOR CONCRETE* FLOORS, UP TO 1" CONDUIT FEED (HUBBELL NO. B2506, OAE) F - TOMBSTONE PEDESTAL FLOOR BOX, 1" CONDUIT FEED (HUBBELL NO. 6301, OAE) * NOTE: INCLUDE ALL HARDWARE/ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION. PROVIDE COVER (COORDINATE WITH ARCHITECT FOR FLOORING TYPE AND FINISH). POKE-THROUGH FLOOR BOXES CAN ALSO BE USED FOR TILE, CARPET, OR WOOD FLOORS.	J	JUNCTION BOX
		J	DROP-DOWN RECEPTACLE
		PS-X	SURFACE MOUNTED PLUGSTRIP "X" INDICATES TYPE: A - PLUGSTRIP, POWER ONLY, OUTLET EVERY 3' OC B - WIREMOLD SERIES 4000 POWER AND DATA C - WIREMOLD SERIES 5000 POWER AND DATA
			SURFACE MOUNTED RACEWAY
			RACEWAY CONCEALED IN WALL, FLOOR, OR CEILING IN FINISHED SPACES, EXPOSED IN UNFINISHED SPACES
			RACEWAY BELOW FLOOR OR BELOW GRADE
	FLOOR BOX WITH ROUGHED-IN DATA CONDUIT AS WELL AS TYPICAL CONDUIT FOR POWER - FURNISH (1) 1-1/4" DEDICATED CONDUIT FROM EACH DATA COMPARMENT, COMPLETE WITH PULL STRINGS OVER TO AND UP WALL INTO ACCESSIBLE CEILING SPACE, UNO.		RACEWAY STUB-OUT WITH CAPPED END
			RACEWAY STUB-OUT WITH BRUSHED END
			GROUNDING BUS

ELECTRICAL LIGHTING FIXTURE LEGEND

	RECESSED LED FIXTURE - "a" & "b" DESIGNATES SWITCH		EXIT SIGN - WALL MOUNT, CEILING MOUNT. ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
	RECESSED EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH		COMBINATION EXIT SIGN/ EGRESS LIGHTING UNIT - WALL MOUNT, CEILING MOUNT. ARROW INDICATES DIRECTION OF TRAVEL, SHADING INDICATES LIGHTED FACE.
	SURFACE LED FIXTURE - "a" & "b" DESIGNATES SWITCH		DUAL HEAD EMERGENCY EGRESS BATTERY PACK, WALL MOUNT OR CEILING MOUNT
	SURFACE EMERGENCY LED FIXTURE - "a" & "b" DESIGNATES SWITCH		WALL MOUNTED SCONCE
	SURFACE WALL MOUNT LED FIXTURE		SURFACE DOWNLIGHT
	LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG		SURFACE EMERGENCY DOWNLIGHT
	EMERGENCY LED STRIP OR INDUSTRIAL, SURFACE OR CHAIN HUNG		RECESSED CAN DOWNLIGHT
	POLE MOUNTED FIXTURE		RECESSED CAN EMERGENCY DOWNLIGHT
	LIGHTED BOLLARD		RECESSED CAN WALL WASHER
	PENDANT FIXTURE; HIGH BAY, LOW BAY, DECORATIVE		TRACK LIGHTING. SEE FIXTURE SCHEDULE AND LIGHTING PLANS.

ELECTRICAL LIGHTING CONTROL LEGEND

STANDARD LIGHTING CONTROLS: SWITCHES AND LINE VOLTAGE DIMMERS

$X	TOGGLE SWITCH (MOUNT AT +48", UNO) "X" INDICATES TYPE: BLANK - SINGLE POLE 3 - INDICATES THREE-WAY 4 - INDICATES FOUR-WAY D - INDICATES DIMMER SWITCH PHILIPS SUNRISE - ON/OFF K - INDICATES KEYED SWITCH T - INDICATES TIMER P - INDICATES PILOT LIGHT OS - INDICATES WALL SWITCH OCC SENSOR WATTSTOPPER DW100 (SINGLE OR DUAL DW-200 SWITCH) OSD - INDICATES WALL SWITCH OCC SENSOR WITH 0-10V DIMMING - WATTSTOPPER DW-311 a - INDICATES SINGLE POLE LIGHTING SWITCH ZONE FOR ZONE a b - INDICATES SINGLE POLE LIGHTING SWITCH ZONE FOR ZONE b ab - INDICATES LIGHTING SWITCHES WITH MULTIPLE ZONES
OS OSD	OCCUPANCY SENSOR - DUAL TECHNOLOGY CEILING MOUNT: WATTSTOPPER DT-300, OR EQUAL WALL MOUNT: WATTSTOPPER DT-200, OR EQUAL WALL MOUNTED SHALL BE AT +96", UNO PROVIDE WITH BZ-50 POWER PACKS AS NEEDED.
P	PHOTOCELL - CEILING MOUNT, WATTSTOPPER LS-301, OR EQUAL

ABBREVIATIONS AND SYMBOLS GENERAL NOTES

A. THE ABBREVIATIONS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL ABBREVIATIONS APPEAR ON THIS PROJECT.
B. THE SYMBOLS ON THIS SHEET COMPRISE A STANDARD LIST; NOT ALL SYMBOLS APPEAR ON THIS PROJECT.
C. ALL MOUNTING HEIGHTS ARE TO CENTER OF DEVICE ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS, MAKING ADJUSTMENTS AS REQUIRED TO AVOID INTERFERENCE WITH EQUIPMENT SUCH AS BASEBOARD FIN-TUBE, CABINET UNIT HEATERS, ETC. ARCHITECT/ENGINEER SHALL BE NOTIFIED OF ALL SUCH HEIGHT ADJUSTMENTS. MOUNTING HEIGHTS INDICATED ON ARCHITECTURAL WALL ELEVATIONS OR AS NOTED SPECIFICALLY ON THE DRAWINGS OR IN THE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER MOUNTING HEIGHTS LISTED.

ELECTRICAL PROJECT GENERAL NOTES

A. PRIOR TO BID CONTRACTOR SHALL VISIT THE SITE. NOT ALL WORK REQUIRED TO COMPLETE THE PROJECT IS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH ALL THE WORK REQUIRED TO COMPLETE THE PROJECT IN ADDITION TO THE LOCAL CONDITIONS AND INCLUDE SAID WORK IN THE BID.
B. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1, "STANDARD PRACTICES FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING." THIS PUBLICATION IS AVAILABLE FROM NECA BY TELEPHONE AT 301-657-3110 OR ON-LINE AT WWW.NECANET.ORG.
C. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH MECHANICAL FOR PLENUM SPACES AND PROVIDE PLENUM RATED CABLES WHERE REQUIRED FOR LIGHTING CONTROL, DATA, FIRE ALARM AND ALL OTHER L.V. SYSTEMS NOT INSTALLED IN CONDUIT. VERIFY CONDUIT REQUIREMENTS ON DRAWINGS AND SPECIFICATIONS.
D. FIRE-RESISTANCE: PROVIDE A MINIMUM HORIZONTAL DISTANCE OF 24" BETWEEN OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTANCE RATED WALLS. WHERE THIS IS NOT POSSIBLE INSTALL UL LISTED PUTTY PADS ON ALL OUTLET BOXES NOT MEETING THE 24" SEPARATION. PROVIDE A UL LISTED THROUGH-PENETRATION FIRESTOP FOR PENETRATIONS OF FIRE-RESISTANCE RATED ASSEMBLIES.
E. CONDUCTORS ARE SIZED PER THE 75 DEGREE C RATING COLUMN OF NEC TABLE 310.16. IF THE TERMINAL USED FOR A TERMINATION OF A PARTICULAR CONDUCTOR IS NOT MARKED, OR THE TERMINAL IS MARKED FOR 60 DEGREE C CONDUCTORS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EITHER ADJUST THE AMPACITY OF THE CONDUCTOR TO MATCH THE 60 DEGREE COLUMN OF TABLE 310.16, OR REPLACE THE TERMINAL WITH ONE RATED FOR AT LEAST 75 DEGREES C.
F. BASED ON ACTUAL HOMERUN LENGTHS REQUIRED IN THE FIELD, THE CONTRACTOR SHALL CALCULATE AND INCREASE THE WIRE SIZES AS REQUIRED TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3%. FOR 20A BRANCH CIRCUITS THE MINIMUM CONDUCTOR SIZES SHALL BE AS FOLLOWS: #10 AWG CU FOR RUNS BETWEEN 100 AND 200 LINEAR FEET, #8 AWG CU FOR RUNS BETWEEN 200 AND 325 LINEAR FEET, AND AS CALCULATED BY THE CONTRACTOR FOR CIRCUITS EXTENDING BEYOND 325 LINEAR FEET. IN ALL CASES WHERE WIRE SIZES INCREASE, THE CONTRACTOR SHALL PROVIDE LARGER CONDUITS AS REQUIRED.
G. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V BRANCH CIRCUIT.

ELECTRICAL PROJECT DEMO NOTES

A. DURING DEMOLITION, THE CONTRACTOR SHALL NOTE ALL EXISTING RACEWAY (BOTH SURFACE AND CONCEALED) TO THE EXTENT POSSIBLE. THESE RACEWAYS SHALL BE REUSED TO THE GREATEST EXTENT POSSIBLE TO INSURE A CLEAN FINISHED PRODUCT. WHERE PRACTICAL, AND ALLOWED PER CODE, FISHING THROUGH WALLS WITH MC CABLE IS PREFERRED TO SURFACE-MOUNTED CONDUIT.
B. ALL POWER INTERRUPTIONS SHALL BE COORDINATED WITH OWNER. ANY DISRUPTION OF WORKERS IN THE SPACE SHALL BE KEPT TO A MINIMUM AND BE COORDINATED WITH THE OWNER PRIOR TO WORK COMMENCING IN THAT SPACE.
C. CONTRACTOR SHALL EXTEND UNSWITCHED HOT LEG FROM EXISTING EMERGENCY FIXTURE LOCATION TO NEW EMERGENCY FIXTURES, AS NEEDED. SEE DEMO PLANS FOR AN APPROXIMATION OF EXISTING EMERGENCY FIXTURE LOCATIONS. FIELD VERIFY EXACT LOCATION PRIOR TO BID.
D. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF ANY EXISTING CONDUIT OR FEEDER CIRCUITS THAT ARE INTENDED TO REMAIN THAT ARE SAW-CUT, OR OTHERWISE DAMAGED, AS PART OF THE DEMOLITION PROCESS. PROVISION FOR THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: ALL NECESSARY CONDUIT AND CONDUCTORS, MOUNTING ACCESSORIES AND LABOR, TO RESTORE THE SYSTEM TO ITS INTENDED FUNCTION.
E. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION DRAWINGS, EXISTING PANEL SCHEDULES, ETC. ARE BASED ON RECORD DRAWINGS AND SITE VISITS. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER.

ELECTRICAL SHEET INDEX

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EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

Description	Date	#

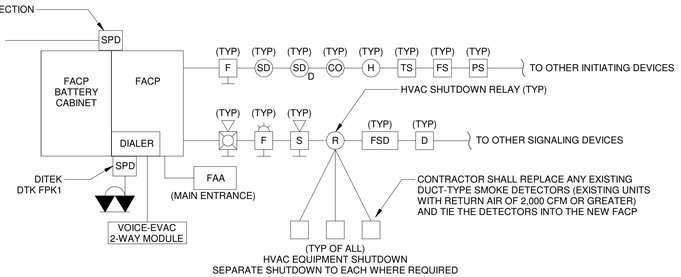
MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS
Drawn By: PMH
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

Sheet No.
E0.00

SAJ ARCHITECTURE

9/8/2023 10:13:05



NOTES:
- ALL FIRE ALARM SYSTEM CONDUCTORS SHALL BE PLENUM RATED.
- FIRE ALARM SYSTEM CONDUCTORS SHALL BE RUN IN CONDUIT WHEREVER EXISTING CONDUIT IS AVAILABLE. CONDUCTORS MAY BE INSTALLED ABOVE ACCESSIBLE CEILING USING STEEL J-HOOKS MOUNTED 24" OC IN ACCORDANCE WITH OESC 760.24.
- PROVIDE POWER SUPPLIES AS REQUIRED FOR SIGNALING DEVICES. PROVIDE A SMOKE DETECTOR WITHIN 5 FEET OF FACP AND EACH POWER SUPPLY LOCATION.
- SPEAKER STROBES SHALL BE WHITE AND SHALL SAY "ALERT" IN LIEU OF "FIRE".
- BREAKER SERVING THE FIRE ALARM SYSTEM SHALL HAVE PERMANENT PROVISIONS FOR BEING SECURED IN THE "ON" POSITION AND SHALL BE IDENTIFIED IN RED AS "FIRE ALARM CIRCUIT."

1 FIRE ALARM RISER DIAGRAM
N.T.S.

MEP COORDINATION SCHEDULE

MARK	DESCRIPTION	ELECTRICAL DATA		CONTROL		NOTES	DISCONNECT / STARTER		DISCONNECT			FEEDER		CIRCUIT
		LOAD	VOLT-PHASE	TYPE	DIV		TYPE	DIV	SWITCH (AMPS)	FUSE (AMPS)	ENCLOSURE (NEMA)	COPPER WIRE (AWG)	CONDUIT (INCHES)	
MECHANICAL EQUIPMENT														
RTU-1	PACKAGED ROOFTOP UNIT	29 A	208/3	BAS	23/23	6, 8	FD	26/26	30	NOTE 6	3R	EXISTING	EXISTING	2B3-13,15,17
RTU-2	PACKAGED ROOFTOP UNIT	29 A	208/3	BAS	23/23	6, 8	FD	26/26	30	NOTE 6	3R	EXISTING	EXISTING	2B3-14,16,18
EF-1	EXHAUST FAN	0.144 HP	120/1	BAS	23/23	6	FST	26/26	20	NOTE 6	--	#12	1/2"	NEAREST CIRCUIT

CONTROL TYPE:
- BAS BUILDING AUTOMATION SYSTEM
- CO CARBON MONOXIDE DETECTOR
- CONT CONTINUOUS OPERATION
- EF INTERLOCK WITH EXHAUST FAN
- HCP HOOD CONTROL PANEL
- INT INTEGRAL
- L LIGHT SWITCH
- MS MANUAL SWITCH
- OS OCCUPANCY SENSOR
- PS PRESSURE SWITCH
- T THERMOSTAT
- TC TIME CLOCK
- UC UNIT CONTROLLER
- VE VEHICLE EXHAUST DETECTION SYSTEM
- N/A NOT APPLICABLE

DISCONNECT/STARTER TYPE:
- CB PANELBOARD CIRCUIT BREAKER WITHIN SIGHT OF EQUIPMENT
- CSFD COMBINATION STARTER/DISCONNECT - HOA
- FD FUSED DISCONNECT
- FST FUSTAT
- FW FACTORY-WIRED SINGLE POINT CONNECTION
- MOCP MOTOR OVER-CURRENT PROTECTION
- MSS MANUAL STARTER SWITCH WITH THERMAL OVERLOADS (1-, 2- OR 3-POLE AS REQUIRED)
- NFD NON-FUSED DISCONNECT
- RCPT 20A DUPLEX RECEPTACLE (GFCI PROTECTED AS REQUIRED), CORD AND PLUG
- RVSS REDUCED VOLTAGE SOLID-STATE
- VFD VARIABLE FREQUENCY DRIVE - HOA
- N/A NOT APPLICABLE

DIVISION OF RESPONSIBILITIES:
- 22/22 FURNISHED AND INSTALLED BY DIV. 22, WIRED BY DIV. 22
- 22/26 FURNISHED AND INSTALLED BY DIV. 22, WIRED BY DIV. 26
- 23/23 FURNISHED AND INSTALLED BY DIV. 23, WIRED BY DIV. 23
- 23/26 FURNISHED AND INSTALLED BY DIV. 23, WIRED BY DIV. 26
- 26/26 FURNISHED AND INSTALLED BY DIV. 26, WIRED BY DIV. 26

NOTES:
1. INTEGRAL DISCONNECTS AND OVERLOADS
2. INTEGRAL OVERLOADS
3. SINGLE POINT CONNECTION
4. PROVIDE RECEPTACLE AND DATA CONNECTION FOR PANEL
5. MOUNT ON UNI-STRUT IN FRONT OF UNIT
6. SIZE FUSES IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES FOR INSTALLED EQUIPMENT
7. INTEGRAL VARIABLE FREQUENCY DRIVE
8. DUCT SMOKE DETECTOR(S) REQUIRED. SEE GENERAL NOTE C.

GENERAL NOTES:
- A. CONTROL WIRING SHALL BE CONCEALED WITHIN WALL CONSTRUCTION, ABOVE CEILING, OR RUN IN CONDUIT. EXPOSED CONTROL WIRING IS UNACCEPTABLE.
- B. UNLESS SPECIFICALLY NOTED, ALL FEEDERS SHALL INCLUDE A FULL SIZE NEUTRAL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WITH THE MANUFACTURER OF THE ACTUAL EQUIPMENT BEING SUPPLIED WHETHER A NEUTRAL IS REQUIRED PRIOR TO ROUGH IN.
- C. ALL DUCT SMOKE DETECTORS FURNISHED BY DIV. 26, INSTALLED BY DIV. 23, AND WIRED BY DIV. 26. DIV. 26 SHALL WIRE ALL FANS TO SHUT DOWN WHEN ALARM IS INITIATED BY ANY DUCT SMOKE DETECTOR.

LUMINAIRE SCHEDULE

TYPE	LAMPS	LOAD (W)	OUTPUT (LM, NOMINAL)	CCT (K)	DESCRIPTIONS	MFR	CATALOG NO. OR SERIES	MOUNTING	VOLTAGE	NOTES
A1	LED	42	5,000	4000	4' LED INDUSTRIAL STRIP	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-40K -80CRI-WH	SURFACE	120	1

NOTES:
1. PRIOR SUBMITTAL NOT REQUIRED. ALL ALTERNATE FIXTURE SHOP DRAWINGS WILL BE REVIEWED AFTER THE PROJECT IS AWARDED.
2. PRIOR SUBMITTAL IS REQUIRED.
3. ALTERNATE FIXTURE IS NOT ACCEPTED FOR SUBSTITUTIONS.
4. PROVIDE 0-10V DIMMING.
5. PROVIDE FUSING.
6. VERIFY FINISH WITH ARCHITECT.
7. PROVIDE WITH REMOTE 12V STEP-DOWN TRANSFORMER.
8. CIRCUIT VIA TYPE EM INVERTER.
9. LAMP DATA IS FOR 4' CROSS-SECTION OF FIXTURE.

GENERAL NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL CEILING TYPES AND PROVIDE ALL MOUNTING, FIRE-RATED, AND IC-RATED ACCESSORIES AS REQUIRED. FOR FIRE-RATED CEILING ASSEMBLIES AND FOR CEILINGS WITH INSULATION, VERIFY ALL RECESSED LUMINAIRE HOUSINGS ARE RATED APPROPRIATELY OR PROVIDE DROP-OVER ENCLOSURES OR TENTS FOR LUMINAIRES. VERIFY THAT DROP-OVER ENCLOSURES OR TENTS ALLOW FOR AIR SPACE AROUND LUMINAIRE PER MANUFACTURER'S RECOMMENDATIONS.

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EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

	Description	Date
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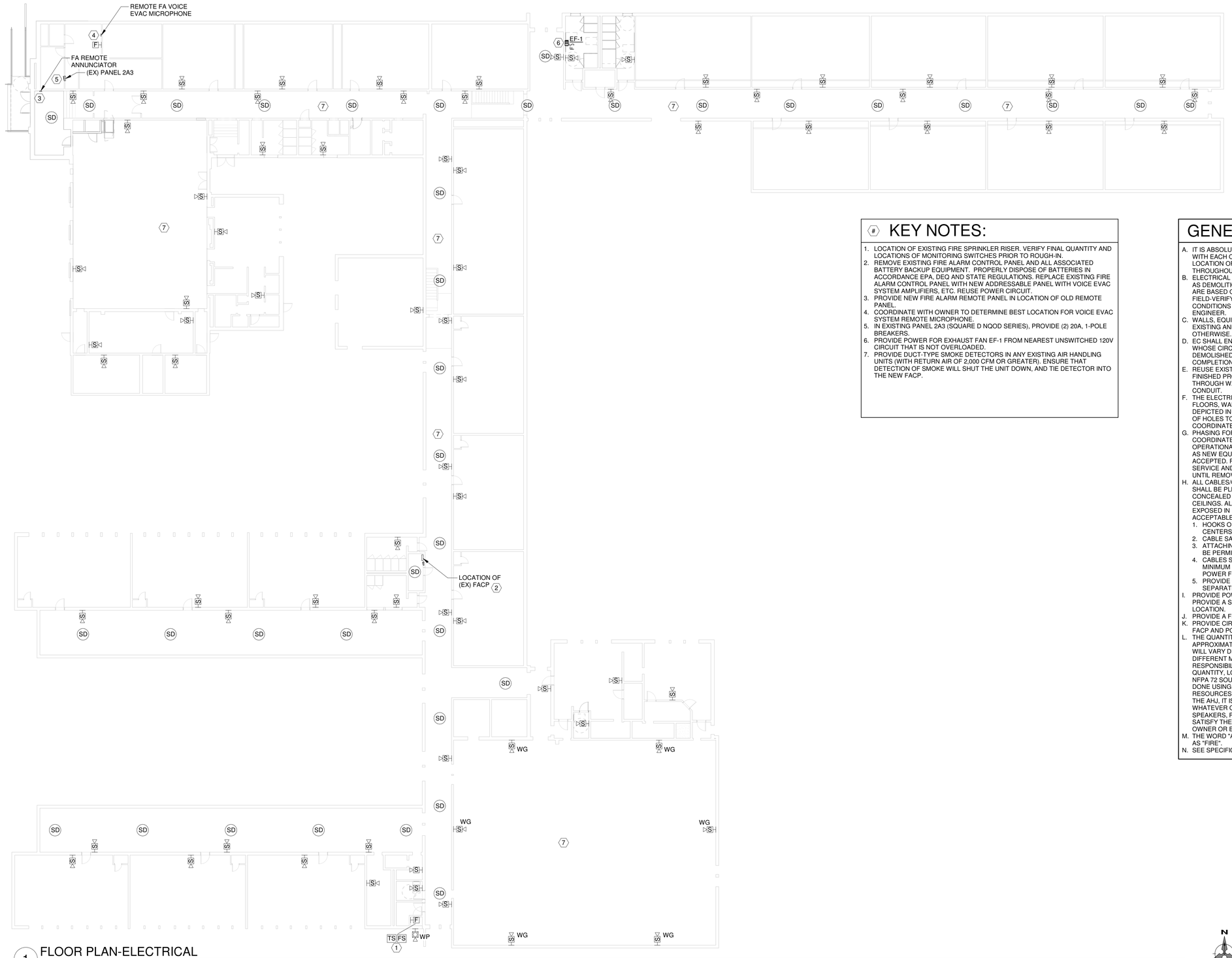
MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: ELECTRICAL SCHEDULES AND DETAILS
Drawn By: PMH
Date: SEPTEMBER 11, 2023
Project No. 22140
Revised :

Sheet No.
E0.01

SAJ ARCHITECTURE

9/8/2023 10:13:05



1 FLOOR PLAN-ELECTRICAL
1/16" = 1'-0"

KEY NOTES:

1. LOCATION OF EXISTING FIRE SPRINKLER RISER. VERIFY FINAL QUANTITY AND LOCATIONS OF MONITORING SWITCHES PRIOR TO ROUGH-IN.
2. REMOVE EXISTING FIRE ALARM CONTROL PANEL AND ALL ASSOCIATED BATTERY BACKUP EQUIPMENT. PROPERLY DISPOSE OF BATTERIES IN ACCORDANCE EPA, DEQ AND STATE REGULATIONS. REPLACE EXISTING FIRE ALARM CONTROL PANEL WITH NEW ADDRESSABLE PANEL WITH VOICE EVAC SYSTEM AMPLIFIERS, ETC. REUSE POWER CIRCUIT.
3. PROVIDE NEW FIRE ALARM REMOTE PANEL IN LOCATION OF OLD REMOTE PANEL.
4. COORDINATE WITH OWNER TO DETERMINE BEST LOCATION FOR VOICE EVAC SYSTEM REMOTE MICROPHONE.
5. IN EXISTING PANEL 2A3 (SQUARE D NQOD SERIES), PROVIDE (2) 20A, 1-POLE BREAKERS.
6. PROVIDE POWER FOR EXHAUST FAN EF-1 FROM NEAREST UNSWITCHED 120V CIRCUIT THAT IS NOT OVERLOADED.
7. PROVIDE DUCT-TYPE SMOKE DETECTORS IN ANY EXISTING AIR HANDLING UNITS (WITH RETURN AIR OF 2,000 CFM OR GREATER). ENSURE THAT DETECTION OF SMOKE WILL SHUT THE UNIT DOWN, AND TIE DETECTOR INTO THE NEW FACP.

GENERAL FIRE ALARM NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS.
B. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION/REMODEL DRAWINGS, EXISTING PANEL SCHEDULES, ETC. ARE BASED ON RECORD DRAWINGS AND SITE INVESTIGATION. EC SHALL FIELD-VERIFY EXISTING CONDITIONS, PRIOR TO BID. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER.
C. WALLS, EQUIPMENT, FIXTURES AND DEVICES SHOWN IN GRAY, ARE EXISTING AND ITEMS IN BLACK ARE NEW, UNLESS SPECIFICALLY NOTED OTHERWISE.
D. EC SHALL ENSURE THAT ANY EXISTING DEVICES THAT ARE TO REMAIN, WHOSE CIRCUITING WAS ROUTED THROUGH AN AREA THAT WAS DEMOLISHED, HAVE POWER AND FUNCTION PROPERLY AT THE COMPLETION OF THIS PROJECT.
E. REUSE EXISTING RACEWAY TO THE EXTENT POSSIBLE TO INSURE A CLEAN FINISHED PRODUCT. WHERE PRACTICAL, AND ALLOWED PER CODE, FISHING THROUGH WALLS WITH MC CABLE IS PREFERRED TO SURFACE-MOUNTED CONDUIT.
F. THE ELECTRICAL CONTRACTOR (EC) IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. EC IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. COORDINATE WITH GENERAL CONTRACTOR.
G. PHASING FOR REPLACEMENT OF EXISTING FIRE ALARM SYSTEM SHALL BE COORDINATED WITH OWNER. MAINTAIN EXISTING EQUIPMENT FULLY OPERATIONAL UNTIL NEW EQUIPMENT HAS BEEN TESTED AND ACCEPTED. AS NEW EQUIPMENT IS INSTALLED, LABEL IT "NOT IN SERVICE" UNTIL IT IS ACCEPTED. REMOVE LABELS FROM NEW EQUIPMENT WHEN PUT INTO SERVICE AND LABEL EXISTING FIRE ALARM EQUIPMENT "NOT IN SERVICE" UNTIL REMOVED FROM THE BUILDING.
H. ALL CABLES/CONDUCTORS ASSOCIATED WITH THE FIRE ALARM SYSTEM SHALL BE PLENUM RATED. PROVIDE CONDUIT WHERE WIRING WILL BE CONCEALED WITHIN WALLS, UNDER FLOORS OR ABOVE NON-LAY-IN CEILINGS. ALSO PROVIDE CONDUIT WHERE WIRING WOULD OTHERWISE BE EXPOSED IN PUBLIC AREAS. ACCESSIBLE CEILING AND ATTIC SPACES ARE ACCEPTABLE FOR USE AS RACEWAYS.
   1. HOOKS OR FASTENERS SHALL BE PLACED AT INTERVALS ON 48 INCH CENTERS.
   2. CABLE SAG BETWEEN SUPPORTS SHALL NOT EXCEED 16 INCHES.
   3. ATTACHING WIRE TO PIPES OR OTHER MECHANICAL ITEMS SHALL NOT BE PERMITTED.
   4. CABLES SHALL BE ROUTED TO AVOID LIGHT FIXTURES (18 INCHES MINIMUM SPACING), SOURCES OF HEAT (12 INCHES MINIMUM SPACING) POWER FEEDER CONDUITS (12 INCHES MINIMUM SPACING).
   5. PROVIDE APPROVED CONDUIT SLEEVES THROUGH ALL AREA SEPARATION FIRE WALLS AND OTHER WALLS.
I. PROVIDE POWER SUPPLIES AS REQUIRED FOR SIGNALING DEVICES. PROVIDE A SMOKE DETECTOR WITHIN 5 FEET OF EACH POWER SUPPLY LOCATION.
J. PROVIDE A FIRE ALARM DOCUMENTS BOX ADJACENT TO FACP.
K. PROVIDE CIRCUIT BREAKER LOCKS AND RED LABELS FOR 120V POWER FOR FACP AND POWER BOOSTERS.
L. THE QUANTITY AND LOCATION OF SPEAKERS ON THE PLAN ARE APPROXIMATE. THE REQUIRED QUANTITY AND LOCATION OF SPEAKERS WILL VARY DEPENDING ON THE CHARACTERISTICS AND CAPABILITIES OF DIFFERENT MANUFACTURER'S SPEAKERS. THEREFORE, IT IS THE RESPONSIBILITY OF THE FIRE ALARM SUPPLIER TO DETERMINE THE FINAL QUANTITY, LOCATIONS AND SETTINGS OF SPEAKERS IN ORDER TO MEET NFPA 72 SOUND LEVEL AND INTELLIGIBILITY REQUIREMENTS. THIS SHALL BE DONE USING SUPPLIER'S SOFTWARE AND OTHER ENGINEERING RESOURCES. IN THE EVENT THE INSTALLED SYSTEM IS NOT ACCEPTED BY THE AHJ, IT IS THE RESPONSIBILITY OF THE FIRE ALARM SUPPLIER TO MAKE WHATEVER CORRECTIONS, INCLUDING INSTALLATION OF ADDITIONAL SPEAKERS, REMOVAL OF SPEAKERS, OR RELOCATION OF SPEAKERS TO SATISFY THE AHJ. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER OR ENGINEER.
M. THE WORD "ALERT" SHALL APPEAR ON SPEAKER STROBES. DO NOT LABEL AS "FIRE".
N. SEE SPECIFICATIONS FOR FURTHER INFORMATION.

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EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

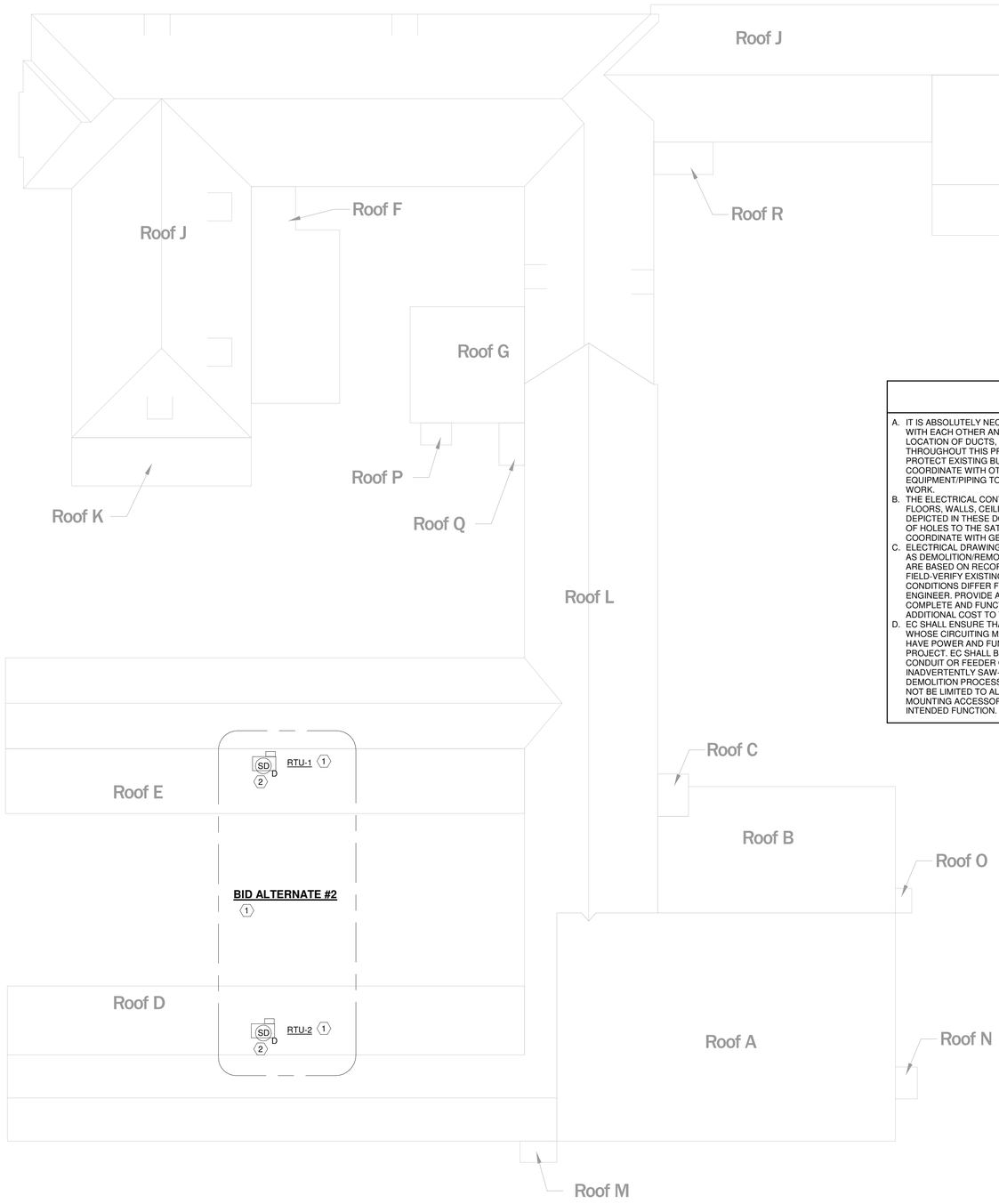
#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: ELECTRICAL FLOOR PLAN
Drawn By : PMH
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
E2.01

SAJ ARCHITECTURE



KEY NOTES:

1. BID ALL WORK ASSOCIATED WITH DEMOLITION OF OLD ROOFTOP UNIT AND INSTALLATION OF NEW EQUIPMENT AS BID ALTERNATE #2. ELECTRICAL CIRCUITS FOR ROOFTOP EQUIPMENT ARE SHOWN ON THE MEP COORDINATION SCHEDULES. DISCONNECT POWER FROM ALL EXISTING ROOFTOP EQUIPMENT AND RETAIN THE CIRCUIT FOR REUSE. REUSE EXISTING CONDUIT AND WIRES MODIFYING/EXTENDING CONDUIT AND WIRES AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT. PROVIDE ANY/ALL NEMA 3R JUNCTION BOXES, RACEWAYS, ELBOWS, WIRES, ETC. REQUIRED. COORDINATE WITH MC AND PROVIDE ALL RACEWAYS, PULL BOXES, WIRING, ETC. AS REQUIRED TO EXTEND THE ASSOCIATED CONTROL WIRING FOR EACH UNIT. WHERE A DISCONNECT OR MOTOR STARTER IS CALLED OUT, MOUNT IT IN A CONVENIENT LOCATION UNDER THE EQUIPMENT HOOD, OR MOUNT IT NEATLY ON OR NEXT TO THE UNIT.
2. BID FIRE ALARM SYSTEM AND DEVICES AS BASE BID. PROVIDE DUCT-TYPE SMOKE DETECTOR AND TIE INTO FIRE ALARM SYSTEM.

GENERAL ELECTRICAL NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS. PROTECT EXISTING BUILDING ELEMENTS DURING DEMOLITION WORK AND COORDINATE WITH OTHER TRADES TO ENSURE NO EXISTING EQUIPMENT/PIPING TO REMAIN IS DAMAGED DURING THE DEMOLITION WORK.

B. THE ELECTRICAL CONTRACTOR (EC) IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. EC IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. COORDINATE WITH GENERAL CONTRACTOR.

C. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION/REMODEL DRAWINGS, EXISTING PANEL SCHEDULES, ETC. ARE BASED ON RECORD DRAWINGS AND SITE INVESTIGATION. EC SHALL FIELD-VERIFY EXISTING CONDITIONS, PRIOR TO BID. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER. PROVIDE ALL DEMOLITION WORK AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION OF NEW SYSTEMS AT NO ADDITIONAL COST TO THE OWNER.

D. EC SHALL ENSURE THAT ANY EXISTING DEVICES THAT ARE TO REMAIN, WHOSE CIRCUITING MAY HAVE BEEN DISRUPTED DURING DEMOLITION, HAVE POWER AND FUNCTION PROPERLY AT THE COMPLETION OF THIS PROJECT. EC SHALL BE RESPONSIBLE FOR REPAIR OF ANY EXISTING CONDUIT OR FEEDER CIRCUITS THAT ARE INTENDED TO REMAIN THAT ARE INADVERTENTLY SAW-CUT, OR OTHERWISE DAMAGED, AS PART OF THE DEMOLITION PROCESS. PROVISION FOR THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO ALL NECESSARY CONDUIT AND CONDUCTORS, MOUNTING ACCESSORIES AND LABOR, TO RESTORE THE SYSTEM TO ITS INTENDED FUNCTION.

E. ALL POWER INTERRUPTIONS SHALL BE COORDINATED WITH OWNER. ANY DISRUPTION OF WORKERS IN THE SPACE SHALL BE KEPT TO A MINIMUM AND BE COORDINATED WITH THE OWNER PRIOR TO WORK COMMENCING IN THAT SPACE.

F. NOTE THAT ELECTRICAL CIRCUITS FOR ROOFTOP EQUIPMENT ARE SHOWN ON THE MEP COORDINATION SCHEDULES. THESE CIRCUITS ARE FROM ORIGINAL DESIGN DRAWINGS AND EC SHALL VERIFY ALL CIRCUITS PRIOR TO DISCONNECTING OR WORKING ON THE EQUIPMENT. MAKE NOTE OF ANYWHERE THE CIRCUIT DIFFERS FROM THE MEP COORDINATION SCHEDULE AND MAKE REVISIONS ON THE RESPECTIVE PANEL SCHEDULE DIRECTORIES. WHEN THE NEW EQUIPMENT IS INSTALLED, PROVIDE AN ENGRAVED PLASTIC LABEL TO IDENTIFY THE EQUIPMENT THAT ALSO INCLUDES THE CIRCUIT DESIGNATION FOR EACH.

G. DISCONNECT POWER FROM EXISTING ROOFTOP EQUIPMENT AND RETAIN THE CIRCUIT FOR REUSE. EC SHALL COORDINATE SALVAGE OF ALL REMOVED EQUIPMENT IN GOOD CONDITION WITH THE OWNER. EC SHALL REMOVE FROM SITE AND DISPOSE OF ALL UNWANTED EQUIPMENT IN AN ENVIRONMENTALLY COMPLAINANT MANOR.

H. IN GENERAL, EXISTING CONDUIT AND WIRES WILL BE REUSED. WHERE ADDITIONAL OR UPGRADED BRANCH CIRCUIT IS NEEDED, EC SHALL PULL A NEUTRAL CONDUCTOR WITH ALL 3-PHASE AND 208V SINGLE-PHASE ELECTRICAL CIRCUITS SERVING EQUIPMENT ON PLAN. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH NEW 120V BRANCH CIRCUIT.

I. EC SHALL COORDINATE WITH THE NEW EQUIPMENT BEING INSTALLED AND PROVIDE ANY/ALL NEMA 3R JUNCTION BOXES, RACEWAYS, ELBOWS, WIRES, ETC. REQUIRED TO REACH THE POWER ENTRANCE OF THE NEW EQUIPMENT. AVOID ADDITIONAL ROOF PENETRATIONS BY ROUTING RACEWAYS WITHIN THE EQUIPMENT CURB WHEREVER POSSIBLE. WHERE ROOF PENETRATIONS ARE REQUIRED, THEY SHALL BE INSTALLED IN STRICT COMPLIANCE WITH ROOFING MANUFACTURER'S STANDARDS.

J. IN ADDITION TO PROVIDING POWER TO THE NEW MECHANICAL UNITS ON THE ROOF, EC SHALL COORDINATE WITH MC AND PROVIDE ALL RACEWAYS, PULL BOXES, WIRING, ETC. AS REQUIRED TO EXTEND THE ASSOCIATED CONTROL WIRING FOR EACH UNIT.

K. MOST NEW ROOFTOP EQUIPMENT WILL COME WITH INTEGRAL DISCONNECT SWITCH AND ONLY REQUIRE AN ELECTRICAL CONNECTION TO THE MAIN TERMINAL BLOCK. WHERE A DISCONNECT OR MOTOR STARTER IS CALLED OUT ON THIS PLAN OR IN THE MEP COORDINATION SCHEDULE, EC SHALL EITHER MOUNT IT IN A CONVENIENT LOCATION UNDER THE EQUIPMENT HOOD, OR MOUNT IT NEATLY ON OR NEXT TO THE UNIT.

L. ALL NEW BUILDING EXTERIOR RECEPTACLES SHALL BE GFCI-STYLE, WEATHER-RESISTANT, SELF-TESTING AND SHALL HAVE A WEATHERPROOF RATED ENCLOSURE/COVER. ENCLOSURES FOR RECEPTACLES ON ROOF (FOR EQUIPMENT REQUIRING SERVICING) SHALL BE WEATHERPROOF RATED WHEN THE RECEPTACLE IS COVERED (NOTHING PLUGGED IN AND RECEPTACLE COVERS CLOSED). ALL OTHER OUTDOOR RECEPTACLES (INCLUDING THOSE ON THE ROOF WHERE A LOAD MAY NOT BE ATTENDED WHILE IN USE) SHALL FEATURE A METALLIC WEATHERPROOF-IN-USE COVER (WITH LOAD PLUGGED IN OR REMOVED) THAT IS CAPABLE OF ACCEPTING A STANDARD HASP STYLE PADLOCK, AS WELL AS ANY ADDITIONAL FEATURES CALLED FOR ON THE PLANS.

M. NEW ROOFTOP UNITS WILL INCLUDE AN INTEGRAL GFI RECEPTACLE POWERED FROM THE UNIT CIRCUIT. EC SHALL PROVIDE ADDITIONAL GFCI RECEPTACLES WHERE SHOWN ON PLANS, OR ANYWHERE THERE IS MECHANICAL EQUIPMENT ON A DIFFERENT LEVEL, OR MORE THAN 25FT FROM A RECEPTACLE. CIRCUIT TO NEAREST 120V SERVICE RECEPTACLE CIRCUIT THAT HAS CAPACITY.

1 ROOF PLAN ELECTRICAL
N.T.S.

9/8/2023 10:13:06

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BEND / PORTLAND

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REGISTERED PROFESSIONAL ENGINEER
93551PE
OREGON
NOV 19, 2018
GARTH L. STEVENS
EXPIRES: JUNE 30, 2024

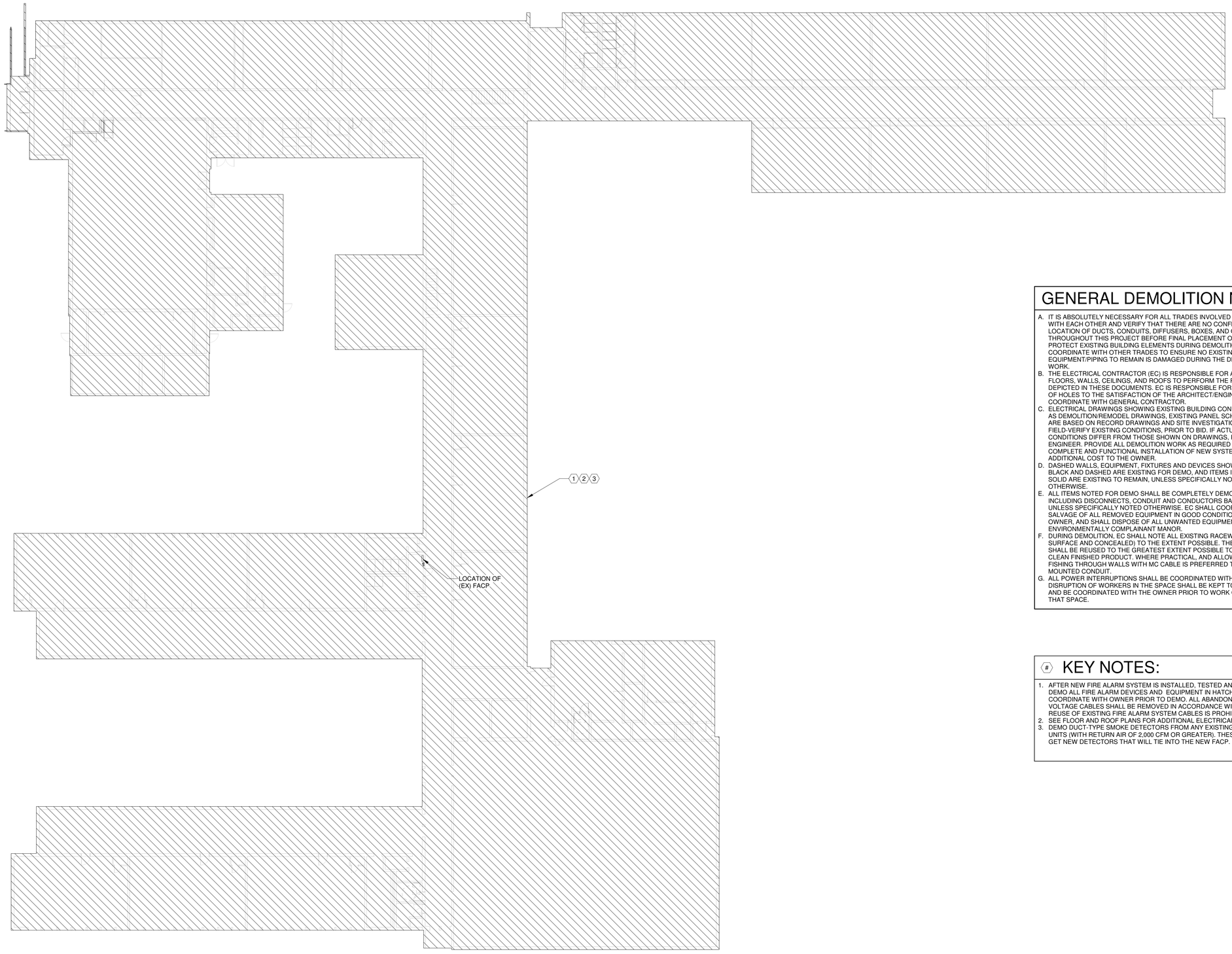
DRAWING REVISIONS

#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: ELECTRICAL ROOF PLAN
Drawn By: PMH
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:
Sheet No. E2.02

SAJ ARCHITECTURE



1 FLOOR PLAN-ELECTRICAL DEMOLITION
1/16" = 1'-0"

GENERAL DEMOLITION NOTES

A. IT IS ABSOLUTELY NECESSARY FOR ALL TRADES INVOLVED TO COORDINATE WITH EACH OTHER AND VERIFY THAT THERE ARE NO CONFLICTS IN LOCATION OF DUCTS, CONDUITS, DIFFUSERS, BOXES, AND OTHER ITEMS THROUGHOUT THIS PROJECT BEFORE FINAL PLACEMENT OF MATERIALS. PROTECT EXISTING BUILDING ELEMENTS DURING DEMOLITION WORK AND COORDINATE WITH OTHER TRADES TO ENSURE NO EXISTING EQUIPMENT/PIPING TO REMAIN IS DAMAGED DURING THE DEMOLITION WORK.
B. THE ELECTRICAL CONTRACTOR (EC) IS RESPONSIBLE FOR ALL CUTTING OF FLOORS, WALLS, CEILINGS, AND ROOFS TO PERFORM THE REQUIRED WORK DEPICTED IN THESE DOCUMENTS. EC IS RESPONSIBLE FOR ALL PATCHING OF HOLES TO THE SATISFACTION OF THE ARCHITECT/ENGINEER. COORDINATE WITH GENERAL CONTRACTOR.
C. ELECTRICAL DRAWINGS SHOWING EXISTING BUILDING CONDITIONS, SUCH AS DEMOLITION/REMODEL DRAWINGS, EXISTING PANEL SCHEDULES, ETC. ARE BASED ON RECORD DRAWINGS AND SITE INVESTIGATION. EC SHALL FIELD-VERIFY EXISTING CONDITIONS, PRIOR TO BID. IF ACTUAL EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON DRAWINGS, PLEASE NOTIFY ENGINEER. PROVIDE ALL DEMOLITION WORK AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION OF NEW SYSTEMS AT NO ADDITIONAL COST TO THE OWNER.
D. DASHED WALLS, EQUIPMENT, FIXTURES AND DEVICES SHOWN BLACK, OR BLACK AND DASHED ARE EXISTING FOR DEMO, AND ITEMS IN GRAY AND SOLID ARE EXISTING TO REMAIN, UNLESS SPECIFICALLY NOTED OTHERWISE.
E. ALL ITEMS NOTED FOR DEMO SHALL BE COMPLETELY DEMOLISHED, INCLUDING DISCONNECTS, CONDUIT AND CONDUCTORS BACK TO SOURCE, UNLESS SPECIFICALLY NOTED OTHERWISE. EC SHALL COORDINATE SALVAGE OF ALL REMOVED EQUIPMENT IN GOOD CONDITION WITH THE OWNER, AND SHALL DISPOSE OF ALL UNWANTED EQUIPMENT IN AN ENVIRONMENTALLY COMPLAINANT MANOR.
F. DURING DEMOLITION, EC SHALL NOTE ALL EXISTING RACEWAY (BOTH SURFACE AND CONCEALED) TO THE EXTENT POSSIBLE. THESE RACEWAYS SHALL BE REUSED TO THE GREATEST EXTENT POSSIBLE TO ENSURE A CLEAN FINISHED PRODUCT. WHERE PRACTICAL AND ALLOWED PER CODE, FISHING THROUGH WALLS WITH MC CABLE IS PREFERRED TO SURFACE-MOUNTED CONDUIT.
G. ALL POWER INTERRUPTIONS SHALL BE COORDINATED WITH OWNER. ANY DISRUPTION OF WORKERS IN THE SPACE SHALL BE KEPT TO A MINIMUM AND BE COORDINATED WITH THE OWNER PRIOR TO WORK COMMENCING IN THAT SPACE.

(#) KEY NOTES:

1. AFTER NEW FIRE ALARM SYSTEM IS INSTALLED, TESTED AND CERTIFIED, DEMO ALL FIRE ALARM DEVICES AND EQUIPMENT IN HATCHED GRID REGION. COORDINATE WITH OWNER PRIOR TO DEMO. ALL ABANDONED LOW VOLTAGE CABLES SHALL BE REMOVED IN ACCORDANCE WITH OESC 800.25. REUSE OF EXISTING FIRE ALARM SYSTEM CABLES IS PROHIBITED.
2. SEE FLOOR AND ROOF PLANS FOR ADDITIONAL ELECTRICAL WORK.
3. DEMO DUCT-TYPE SMOKE DETECTORS FROM ANY EXISTING AIR HANDLING UNITS (WITH RETURN AIR OF 2,000 CFM OR GREATER). THESE UNITS WILL GET NEW DETECTORS THAT WILL TIE INTO THE NEW FACP.

N

9/8/2023 10:13:07

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REGISTERED PROFESSIONAL ENGINEER
93551PE
OREGON
NOV 19, 2018
GARTH L. STEVENS
EXPIRES: JUNE 30, 2024

DRAWING REVISIONS

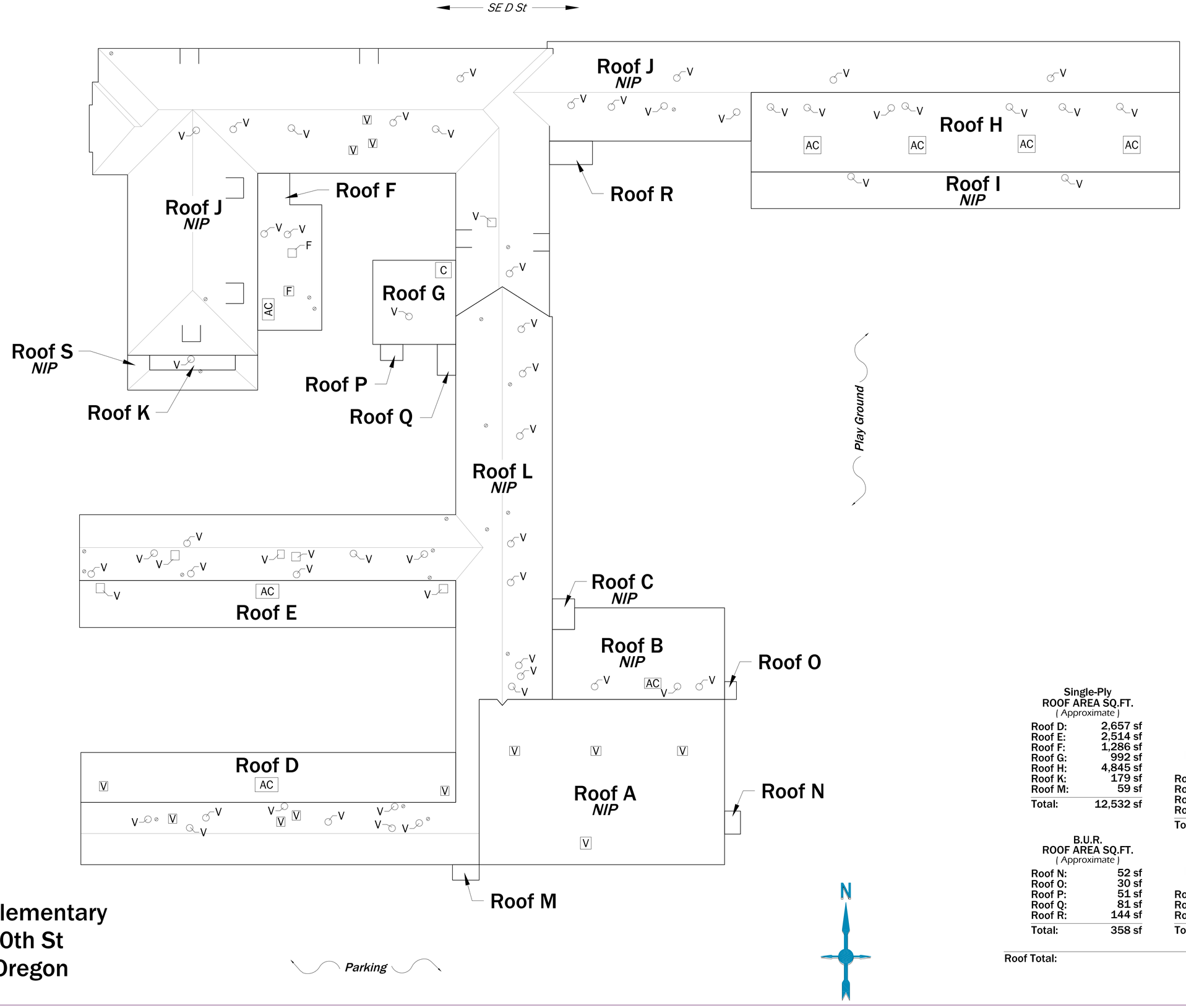
#	Description	Date

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: ELECTRICAL DEMOLITION PLAN
Date : SEPTEMBER 11, 2023
Drawn By : PMH
Project No. 22140
Revised :

Sheet No.
ED2.01

SAJ ARCHITECTURE



Madras Elementary
215 SE 10th St
Madras, Oregon

Single-Ply
ROOF AREA SQ.FT.
(Approximate)

Roof D:	2,657 sf
Roof E:	2,514 sf
Roof F:	1,286 sf
Roof G:	992 sf
Roof H:	4,845 sf
Roof K:	179 sf
Roof M:	59 sf
Total:	12,532 sf

Metal
ROOF AREA SQ.FT.
(NIP)

Roof I:	2,422 sf
Roof J:	20,765 sf
Roof L:	13,941 sf
Roof S:	506 sf
Total:	37,634 sf

B.U.R.
ROOF AREA SQ.FT.
(Approximate)

Roof N:	52 sf
Roof O:	30 sf
Roof P:	51 sf
Roof Q:	81 sf
Roof R:	144 sf
Total:	358 sf

Single-Ply
ROOF AREA SQ.FT.
(NIP)

Roof A:	6,523 sf
Roof B:	2,174 sf
Roof C:	97 sf
Total:	8,794 sf

Roof Total: 59,318 sf

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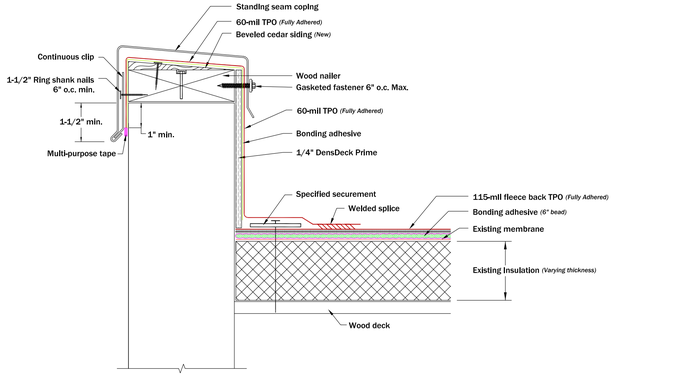
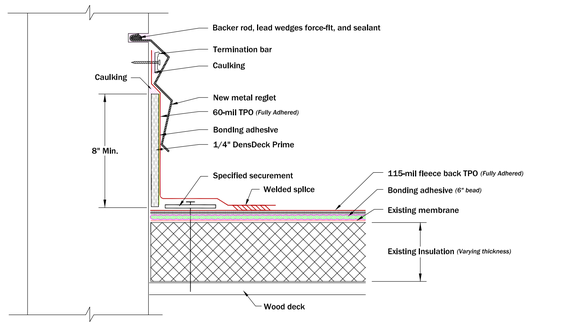
DRAWING REVISIONS
#

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

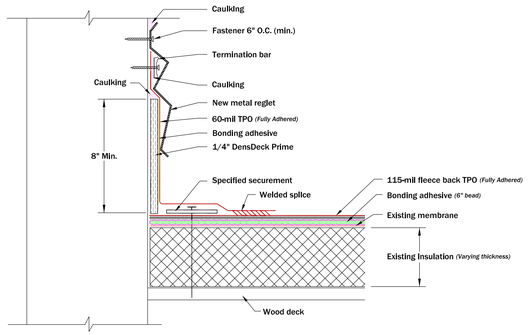
Drawing Title: Roof Plan
Drawn By : D.V.G.
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :
Sheet No. R1.01



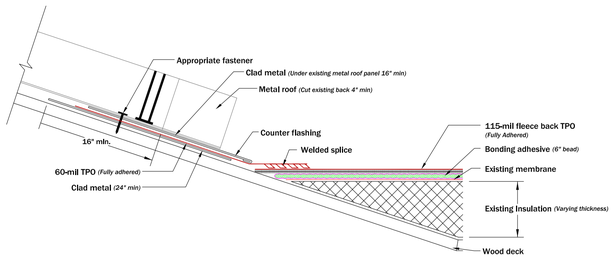
1 R-MES Perimeter - Parapet & Coping NTS



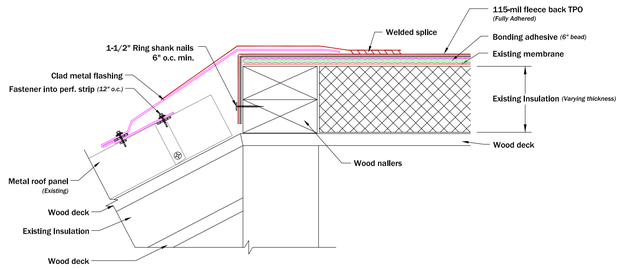
2 R-MES Perimeter - Saw Cut Reglet NTS



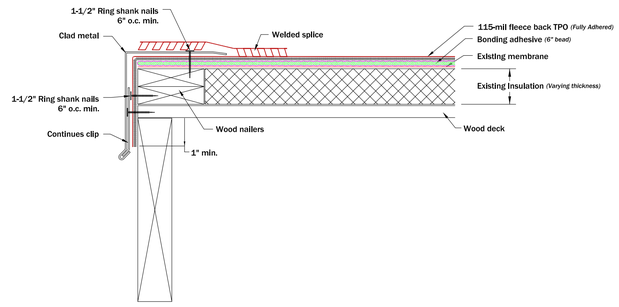
3 R-MES Perimeter - Surface Mounted Reglet NTS



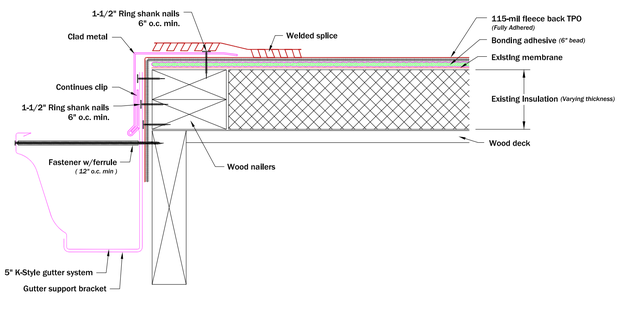
4 R-MES Perimeter - Metal to Single-ply NTS



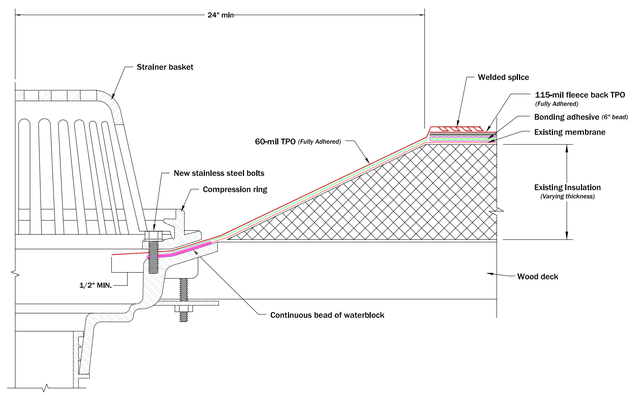
5 R-MES Perimeter - Drip Edge to Existing Metal Roof NTS



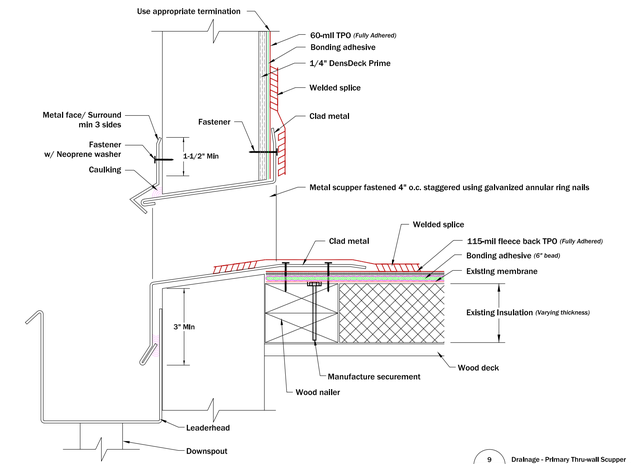
6 R-MES Drainage - Drip edge NTS



7 R-MES Drainage - Drip edge w/Gutter NTS



8 R-MES Drainage - Roof Drain NTS



9 R-MES Drainage - Primary Thru-wall Scupper NTS

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Stamp

DRAWING REVISIONS

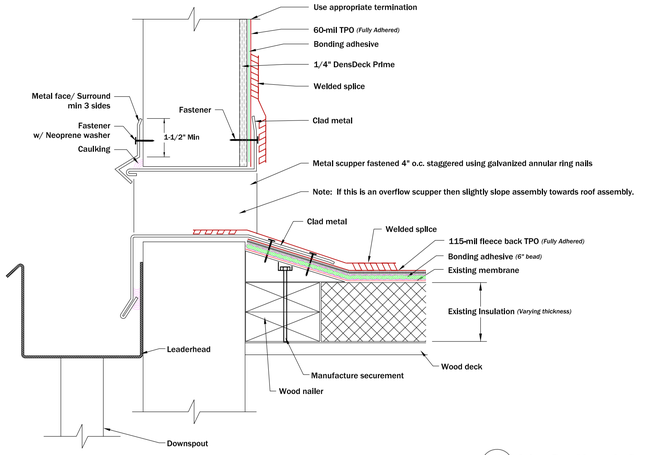
#	

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

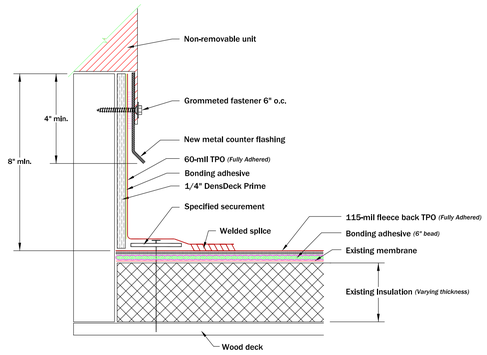
Drawing Title: Roofing details

Drawn By: D.V.G.
Project No. 22140
Date: SEPTEMBER 11, 2023
Revised:

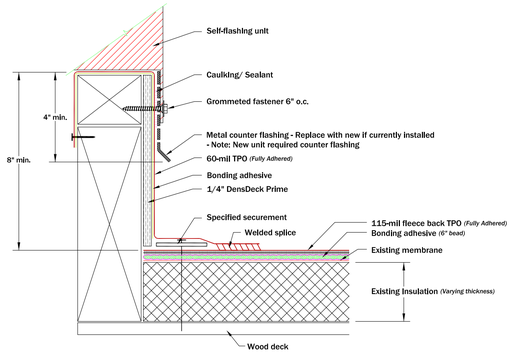
Sheet No.
R1.02



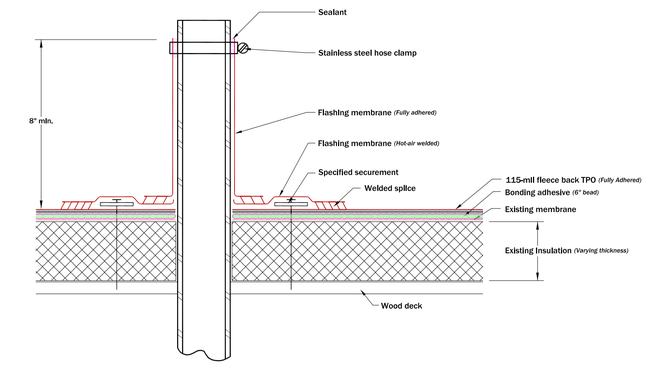
10 R-MES Drainage - Thru-wall Scupper - Over Flow NTS



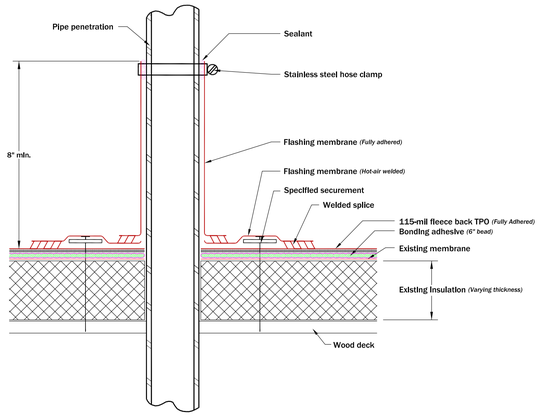
11 R-MES Equipment - Non-removable Unit Curb NTS



12 R-MES Equipment - Removable Unit Curb NTS



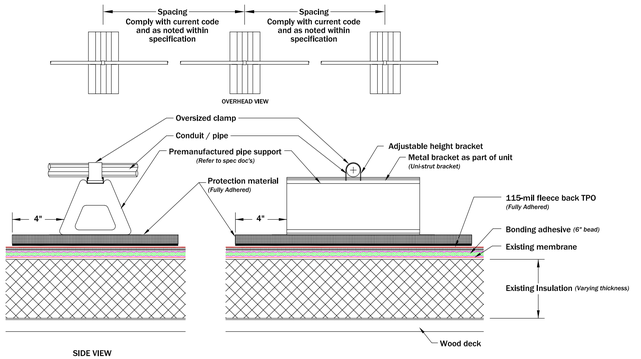
13 R-MES Penetration - Vent Stack Flashing NTS



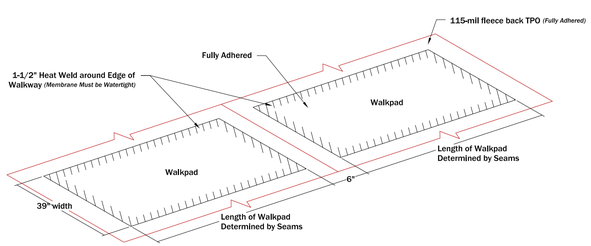
14 R-MES Penetration - Pipe Penetration NTS

NOTES:

1) The brackets should retain the pipe in a manner to allow for movement without binding.
2) The supports should be placed at intervals to maintain a straight continuity of the pipe line - 10' max. spacing.
3) Protection material should be applied in a full bed of plastic cement.



15 R-MES Misc - Conduit/Pipe Support NTS



16 R-MES Misc - Walk Pad - Fully Adhered NTS

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DRAWING REVISIONS

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS

JEFFERSON COUNTY SCHOOL DISTRICT (509J)

BID SET

Drawing Title: Roofing details

Drawn By: D.V.G.

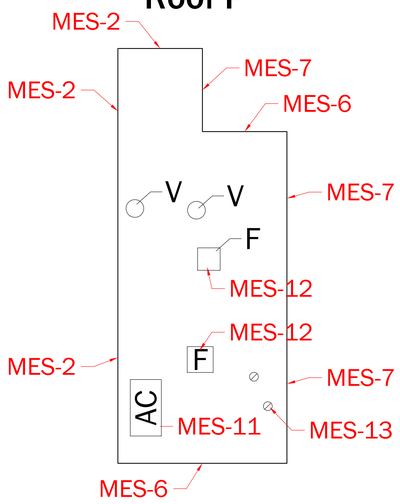
Project No. 22140

Date: SEPTEMBER 11, 2023

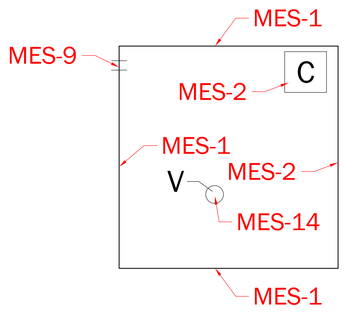
Revised:

Sheet No. R1.03

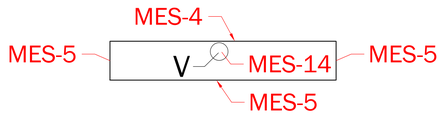
Roof F



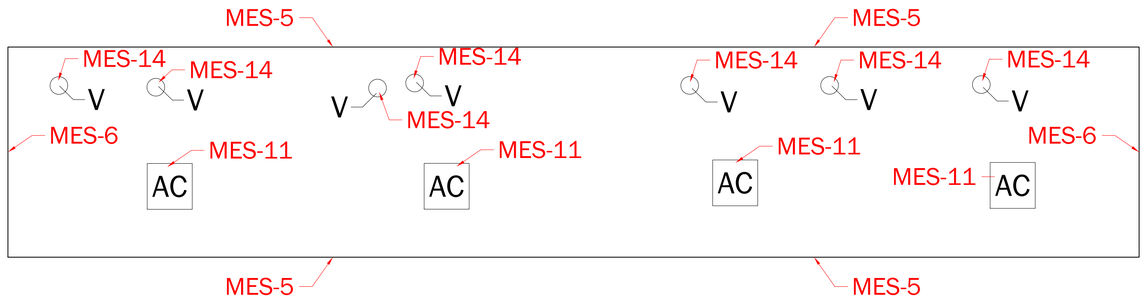
Roof G



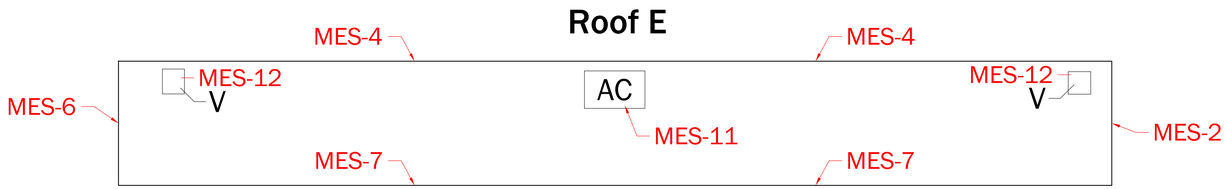
Roof K



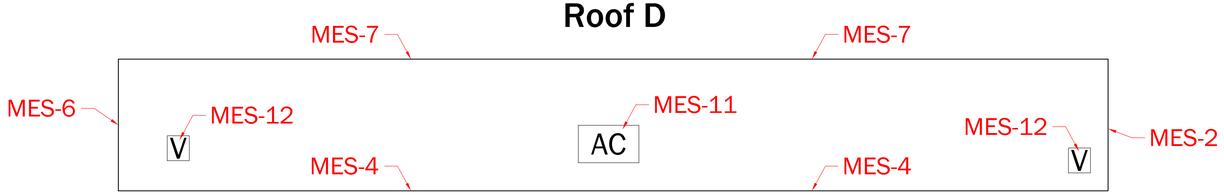
Roof H



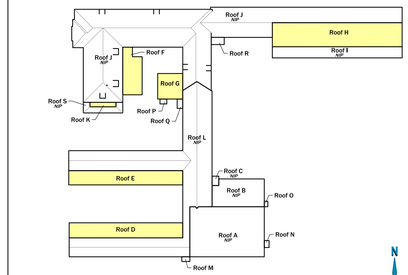
Roof E



Roof D



JCSD – JEFFERSON COUNTY SD
Madras Elementary - Madras, OR
ROOF LAYOUT



- Project Area

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Prineville, OR 97754
t 503.628.2882, | 503.246.2428

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DRAWING REVISIONS

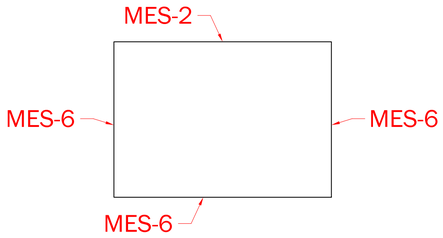
#

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: Detail Callout Maps
Date : SEPTEMBER 11, 2023
Drawn By : D.V.G.
Revised :
Project No. 22140

Sheet No.
R1.04

Roof P



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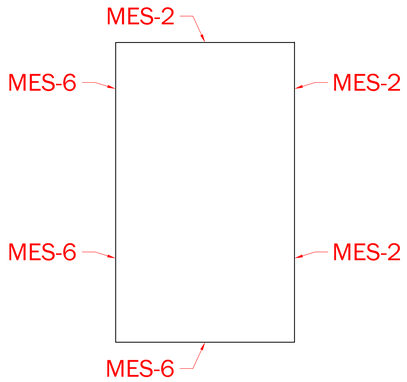

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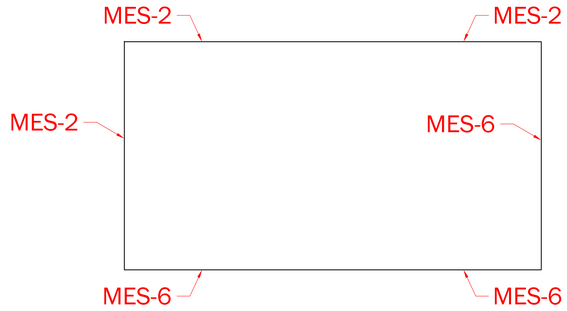

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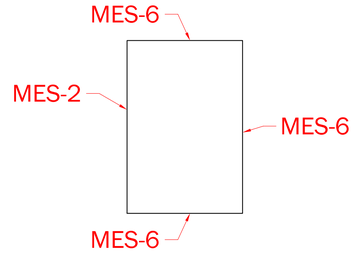
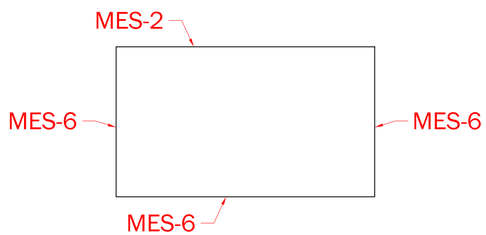


Roof M



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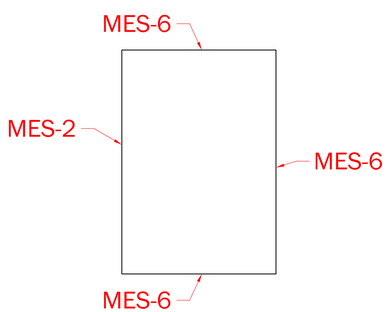
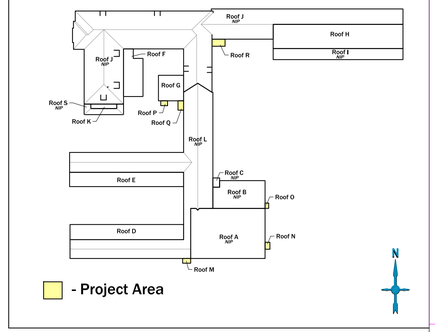


JCSD – JEFFERSON COUNTY SD
Madras Elementary - Madras, OR
ROOF LAYOUT



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Stamp

DRAWING REVISIONS

#

MADRAS ELEMENTARY SCHOOL IMPROVEMENTS
JEFFERSON COUNTY SCHOOL DISTRICT (509J)
BID SET

Drawing Title: Detail Callout Maps
Drawn By : D.V.G.
Project No. 22140
Date : SEPTEMBER 11, 2023
Revised :

Sheet No.
R1.05