BOLTON HIGH SCHOOL
Roof Replacement

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

PHASE 2 PACKAGE

MEMPHIS Shelby County Schools
7323 Brunswick Rd
Arlington, Tennessee 38002

bdG Project No: 22009
TFM No: 02447, 02447-A
MSCS No: 2023-0607

Construction Documents: 05.30.24

CODE INFORMATION

JURISDICTIONS

STATE OF TENNESSEE
DEPARTMENT OF COMMERCE AND INSURANCE
STATE FIRE MARSHAL'S OFFICE
CODES ENFORCEMENT SECTION
500 JAMES ROBERTSON PARKWAY
3rd FLOOR, VOLUNTEER PLAZA
NASHVILLE, TN 37243-1162
BUSINESS PHONE: (615) 741-7190
BUSINESS FAX: (615) 741-1583

LOCAL BUILDING DEPARTMENT
MEMPHIS & SHELBY COUNTY OFFICE OF
CONSTRUCTION CODE ENFORCEMENT
CONTACT: BOBBY DECKER
6465 MULLINS STATION
MEMPHIS, TENNESSEE 38105
BUSINESS PHONE: (901) 379.4201
BUSINESS FAX: (901) 379.4104
BOBBY.DECKER@SHLEBYCOUNTYTN.GOV

LOCAL FIRE DEPARTMENT
MEMPHIS FIRE SERVICES
CHIEF FIRE MARSHAL: JOE M. PAYNE
65 SOUTH FRONT STREET
MEMPHIS, TENNESSEE 38103
BUSINESS PHONE: (901) 636.1400
BUSINESS FAX: (901) 527.9516
MFDINQUIRIES@MEMPHISTN.GOV

APPLICABLE BUILDING CODES

STATE CODES:
2012 INTERNATIONAL BUILDING CODE
(EXCEPT: CHAPTER 11 & 3411)
2017 NATIONAL ELECTRICAL CODE (NFPA 70)
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL ENERGY CODE
2012 INTERNATIONAL FIRE CODE

2012 NFPA-101: LIFE SAFETY CODE

UNITED STATES DEPARTMENT OF JUSTICE:
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

LOCAL CODES:
2021 INTERNATIONAL BUILDING CODE / LOCAL
2021 INTERNATIONAL EXIST. BUILDING CODE / LOCAL
2020 NATIONAL ELECTRICAL CODE / LOCAL
2021 INTERNATIONAL GAS CODE / LOCAL
2021 INTERNATIONAL MECHANICAL CODE / LOCAL
2021 INTERNATIONAL PLUMBING CODE / LOCAL
2021 INTERNATIONAL ENERGY CON. CODE / LOCAL
2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

SCOPE OF WORK

THE PURPOSE OF THIS PROJECT IS TO:
1. REPLACE THE EXISTING ROOFING SYSTEMS ON 7 BUILDINGS.

BUILDING INFORMATION - 3D & 3E

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 2-STORY
27'-4" / 28'-4"
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 7,000 S.F. 3D
4,335 S.F. 3E

BUILDING INFORMATION - 4A thru 4D

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 2-STORY & 1-STORY
32'-0" 14'-0"
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 16,675 S.F. 4A
3,990 S.F. 4B
3,000 S.F. 4C
11,475 S.F. 4D

BUILDING INFORMATION - 5A & 5B

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY & 2-STORY
15'-4" 26'-0"
GROUP (E): VOCATIONAL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 12,590 S.F. 5A
19,485 S.F. 5B

BUILDING INFORMATION - 7

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
14'-0"
GROUP (A): CAFETERIA

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 7,750 S.F.

BUILDING INFORMATION - 8A thru 8F

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
26'-4" to 9'-0" lower
GROUP (A): AUDITORIUM
GROUP (E): HIGH SCHOOL CLASSROOMS

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 2,260 S.F. 8A (upper)
2,440 S.F. 8A (2 wings)
720 S.F. 8A (2 lower)
2,620 S.F. 8B
2,060 S.F. 8C
9,765 S.F. 8D
970 S.F. 8E
675 S.F. 8F

BUILDING INFORMATION - 9A thru 9D

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY (GYM w/ MEZZ)
36'-8"/ 14'-8"/ 19'-4"
GROUP (A): GYMNASIUM

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, PROTECTED
SQ. FT. 18,675 S.F. 9A
8,315 S.F. 9B
4,380 S.F. 9C
2,390 S.F. 9D

BUILDING INFORMATION - 10

USE & OCCUPANCY CLASSIFICATION:
EDUCATION: 1-STORY
18'-0"
GROUP (B): MAIN OFFICE

CONSTRUCTION TYPE:
TYPE: IIB, UNSPRINKLERED, UNPROTECTED
SQ. FT. 1,595 S.F.

SCHEDULE OF DRAWINGS

PROJECT TEAM

OWNER
MEMPHIS Shelby County Schools
Contact: Dale McClendon
1364 Farmville Road
Memphis, Tennessee 38122
phone: 901.416.0860

TENANT
Bolton High School
Contact: Martavious James
7323 Brunswick Rd
Arlington, Tennessee 38002
phone: 901.416-1435

ARCHITECT
braganza design/ GROUP
Contact: Wendy Gross, AIA
1861 Madison Avenue
Memphis, Tennessee 38104
phone: 901.458.7600

ROOF CONSULTANT
Nashville Roof Consultants
Contact: James Oldham
P.O.Box 160527
Nashville, Tennessee 37216
phone: 615.238.5737

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV	ABOVE
ACOUS	ACOUSTIC
A.D.	ACCESS DOOR
ADJ	ADJUSTABLE
A.F.F.	ABOVE FINISHED FLOOR
AGG	AGGREGATE
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANOD	ANODIZED
ARCH	ARCHITECT
ASB	ASBESTOS
ASPH	ASPHALT
ASSY	ASSEMBLY
BD	BOARD
BET	BETWEEN
BITUM	BITUMINOUS
BLDG	BUILDING
BLT	BOLT
BM	BEAM
B.M.	BENCH MARK
BRK	BRICK
BRKT	BRACKET
BSMT	BASEMENT
B.U.R.	BUILT-UP ROOF
CAB	CABINET
C.B.	CATCH BASIN
CEM	CEMENT
CER	CERAMIC
C.I.	CAST IRON
C.I.P.	CAST-IN-PLACE
C.J.	CONTROL JOINT
CL	CENTER LINE
CLO	CLOSET
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
COL	COLUMN
CONC	CONCRETE
CONN	CONNECT
CORR	CORRIDOR
CONST	CONSTRUCTION
CPT	CARPET
CSK	COUNTERSUNK
C.T.	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT.	DEPARTMENT
DET	DETAIL
D.F.	DRINKING FOUNTAIN
DIAM	DIAMETER
DIM	DIMENSION
DISP	DISPENCER
DK	DECK
DP	DOWN
DPROOF.	DAMPPROOFING
DR	DOOR
D.S.	DOWNSPOUT
DTA	DOVETAIL ANCHOR
DW	DRYWALL
DWG	DRAWING
DWR	DRAWER
E	EAST
EA.	EACH
E.D.F.	ELEV. DRINKING FOUNTAIN
E.I.F.S	EXTERIOR INSULATION & FINISH SYSTEM
EJ.	EXPANSION JOINT
ELEV.	ELEVATION
ELAS	ELASTIC
ELEC	ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F.A.	FIRE ALARM
FAB	FABRICATE
FAS	FASTEN
F.D.	FLOOR DRAIN
FDN	FOUNDATION
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISHED FLOOR
FGL	FIBERGLAS
F.H.C.	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHS	FLAT HEAD SCREW
FIN	FINISH
FL	FLOOR
FLG	FLASHING
FL. MTD	FLOOR MOUNTED
FLUOR	FLUORESCENT
FPRF	FIREPROOFING
F.S.	FULL SIZE
FT.	FOOT
FTG	FOOTING
FURR	FURRING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
G.B.	GRAB BAR
GL.	GLASS
GND	GROUND
GR	GRADE
GRAN	GRANITE
GYP	GYPSUM
GYP. BD.	GYPSUM BOARD
GYP. PL.	GYPSUM PLASTER
H.B.	HOSE BIB
H.C.	HOLLOW CORE
HCP	HANDICAPPED
HD	HEAD
HDW	HARDWARE
HDWD	HARDWOOD
HGT.	HEIGHT
H.M.	HOLLOW METAL
H. PT.	HIGH POINT
HORIZ	HORIZONTAL
HR	HOUR
IN	INCH
INCL	INCLUDE
INST	INSTALLATION
INSUL	INSULATION
INT.	INTERIOR
JAN	JANITOR
J.C.	JANITOR'S CLOSET
JST	JOIST
JT.	JOINT
KIT	KITCHEN
K.O.	KNOCK OUT
K. PL.	KICK PLATE
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LB	POUND
L.B.	LAG BOLT
LAB	LABEL
LFT	LINEAR FOOT
LG	LONG
LKR	LOCKER
LMS	LIMESTONE
LNTL	LINTEL
LPT	LOW POINT
LT	LIGHT
LT. WT.	LIGHT WEIGHT
LWC.	LIGHT WEIGHT CONCRETE
M	METER
MAS	MASONARY
MAX	MAXIMUM
M.C.	MEDICINE CABINET
M.C.B.	METAL CASING BEAD
MCRB	METAL CORNER BEAD
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
METL	METAL LATH
MEZZ	MEZZANINE
MFR	MANUFACTURE
M.H.	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLDG	MOLDING
MLWK	MILLWORK
MM	MILLIMETER
M.O.	MASONRY OPENING
MOD	MODULE
M.R.	MOP RACK
MRB	MARBLE
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
N	NORTH
NAT	NATURAL
N.C.	NON COMBUSTIBLE
N.I.C.	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
N.T.S.	NOT TO SCALE
N/A	NOT APPLICABLE
OA	OVERALL
OBS	OBSCURE
O.C.	ON CENTER
OFF	OFFICE
O.D.	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
OPPH	OPPOSITE HAND
OVHD	OVERHEAD
P.BD.	PARTICLE BOARD
PC	PIECE
P. LAM.	PLASTIC LAMINATE
PL	PLATE
PLAS.	PLASTER
PLYWD	PLYWOOD
PNL.	PANEL
POL	POLISHED
PR	PAIR
PRSCT	PRECAST
PROP	PROPERTY
PT	POINT
PRT	PAINTED
P.T.D.	PAPER TOWEL DISPENSER
PTN	PARTITION
PRT	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
R	RISER
R.A.	RETURN AIR
R.A.G.	RETURN AIR GRILLE
RAD	RADIUS
R.B.	RESILIENT BASE
R.D.	ROOF DRAIN
REF	REFRIGERATOR
REFL	REFLECTED
REINF	REINFORCE
REQD.	REQUIRED
RES	RESILIENT
REV	REVISION
RFG	ROOFING
R.L.	RAIN LEADER
RM	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R.T.	RESILIENT TILE
RUB	RUBBER
RWD	REDWOOD
S	SOUTH
SAF. GL.	SAFETY GLASS
S.C.	SOLID CORE
SCHED	SCHEDULE
S.D.	SOAP DISPENSER
SECT	SECTION
SEP	SEPARATE
SERV	SERVICE
SH	SHEET
SHR	SHOWER
SIM	SIMILAR
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SNT	SEALANT
SPCL	SPECIAL
SPEC	SPECIFICATION
SQ	SQUARE
S.S.	SERVICE SKIN
S.S.	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SYM	SYMMETRICAL
T. ACC.	TOILET ACCESSORY
T.B.	TOWEL BAR
T.C.	TERRA COTTA
TEL	TELEPHONE
TER	TERRAZZO
T & G	TONGUE AND GROOVE
THD	THREAD
THK	THICKNESS
THRES	THRESHOLD
T.O.C.	TOP OF CURB
T.O.SL.	TOP OF SLAB
T.O.ST.	TOP OF STEEL
T.O.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
TRAV	TRAVERTINE
T.V.	TELEVISION
T.W.	TOP OF WALL
T. WD.	TREATED WOOD
TYP	TYPICAL
UC	UNDERCUT
U.L.	UNDERWRITERS LABORATORY
UNF	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UP	URINAL
VAR	VARIES
V.C.T.	VINYL COMPOSITION TILE
V.T.	VINYL TILE
V.B.	VAPOR BARRIER
VERT	VERTICAL
VEST	VESTIBULE
V.W.C.	VINYL WALL COVERING
W	WEST
W/	WITH
W.C.	WATER CLOSET
WD	WOOD
WDW	WINDOW
W.H.	WALL HUNG
W.I.	WROUGHT IRON
WP	WATERPROOFING
W.P.	WOOD PANELING
W. STRIP.	WEATHER STRIPPING
W.T.W.	WALL TO WALL
W.W.F.	WELDED WIRE FABRIC
YD	YARD

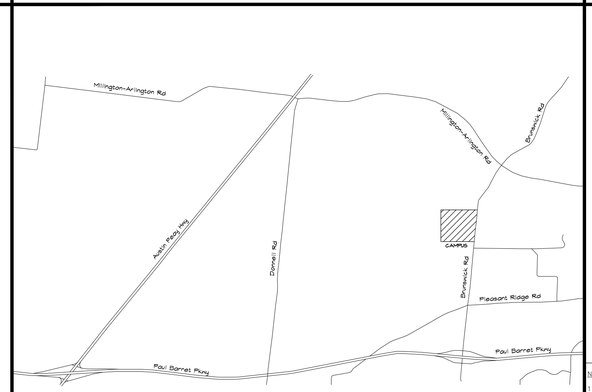
LEGEND OF MATERIALS

- BRICK
- CONCRETE IN SECTION
- CONCRETE IN PLAN
- BATT INSULATION
- RIGID INSULATION
- STEEL
- CONTINUOUS WOOD BLOCKING
- INTERMEDIATE WOOD BLOCKING
- FINISHED WOOD
- PLYWOOD
- ACOUSTIC TILE
- GLASS
- GYPSUM BOARD
- EARTH
- CONCRETE MASONRY UNITS

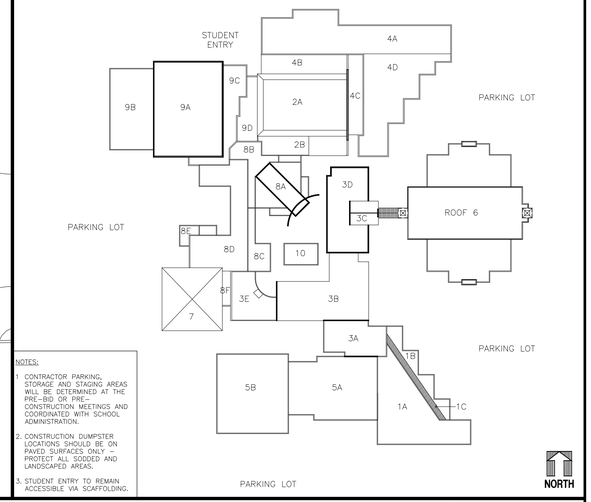
LEGEND OF SYMBOLS

- ROOM NAME / XXX — SPACE NAME
- 1 — REVISION NUMBER
- 1 — LATEST REVISION
- XX / XXX — DETAIL / SHEET NUMBER
- XX / XXX — SECTION / SHEET NUMBER
- XX / XXX — MULTIPLE INTERIOR ELEVATIONS
- XX / XXX — ELEVATION SHEET NUMBER
- 1 — COLUMN GRID TAG
- XXX — DOOR TAG
- TOILET ACCESSORY
- X — WINDOW TAG
- X — WALL TYPE
- X — DEMOLITION NOTE
- XX / XXX — ENLARGED DETAIL REFERENCE
- XX / XXX — ENLARGED PLAN REFERENCE
- NORTH ARROW
- ELEV. / ELEV. INFO. — ELEVATION MARK

LOCATION MAP



CAMPUS MAP



NOTES:

1. CONTRACTOR PARKING, STORAGE AND STAGING AREAS WILL BE DETERMINED AT THE PRE-BID OR PRE-CONSTRUCTION MEETINGS AND COORDINATED WITH SCHOOL ADMINISTRATION.
2. CONSTRUCTION DUMPSTER LOCATIONS SHOULD BE ON PAVED SURFACES ONLY -- PROTECT ALL SODDED AND LANDSCAPED AREAS.
3. STUDENT ENTRY TO REMAIN ACCESSIBLE VIA SCAFFOLDING.

GENERAL DEMOLITION NOTES

1. REFER TO DEMOLITION KEYNOTES FOR SPECIFIC DEMOLITION REQUIREMENTS. SPECIFIC DEMOLITION ITEMS ARE NOT TO BE CONSIDERED ALL INCLUSIVE OR COMPLETE IN THEMSELVES. PERFORM ADDITIONAL DEMOLITION THAT MIGHT REASONABLY BE REQUIRED FOR PREPARATION OF INSTALLATION OF NEW CONSTRUCTION OR SPECIFIED FINISHES.
2. PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE FACILITY AND THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS. NO CLAIMS FOR ADDITIONAL WORK DUE TO OBSERVABLE CONDITIONS WILL BE CONSIDERED.
3. SCHEDULE DEMOLITION WORK WITH THE OWNER PRIOR TO START OF WORK TO MINIMIZE DISRUPTION OF SERVICES AND PROVIDE FOR THE UNINTERRUPTED FUNCTIONING OF THE FACILITY. ANY OPERATION THAT MAY CAUSE DISTURBANCE TO THE FACILITY SHALL BE COORDINATED WITH THE OWNERS A MINIMUM OF 72 HOURS IN ADVANCE. SOME WORK MAY REQUIRE PERFORMANCE DURING "OFF HOURS" TO ALLOW THE OCCUPANTS FULL USE OF THE OCCUPIED AREAS.
4. TAKE CARE TO PREVENT DAMAGE TO ADJACENT OCCUPIED BUILDING SPACES. CARRY OUT DEMOLITION WORK TO CAUSE AS LITTLE INCONVENIENCE, EXCESSIVE NOISE OR VIBRATION AS POSSIBLE SO AS NOT TO DISTURB ADJACENT OCCUPIED AREAS.
5. DEMOLITION TO BE PERFORMED IN A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES INDICATED TO REMAIN. SURFACES TO BE PATCHED IF NECESSARY TO PROVIDE A SUITABLE SUBSTRATE FOR NEW FINISHES OR PREPPED TO AS REQUIRED TO ACCOMMODATE NEW WORK. PERFORM DEMOLITION WORK IN ACCORDANCE WITH APPLICABLE AUTHORITIES HAVING JURISDICTION.
6. PROVIDE "CUTTING AND PATCHING" INTO EXISTING CONSTRUCTION TO PROVIDE FOR THE REMOVAL, INSTALLATION OR PERFORMANCE OF OTHER WORK AND SUBSEQUENT FITTING AND PATCHING REQUIRED TO RESTORE SURFACES TO THEIR ORIGINAL CONDITION. ALL DISTURBED SURFACES TO BE PATCHED AND/OR PAINTED AS REQUIRED.
7. EXERCISE CARE DURING WORK TO PROTECT INTERIOR AND EXTERIOR EXISTING CONSTRUCTION TO REMAIN. REPAIRS TO EXISTING CONSTRUCTION DUE TO DAMAGE WILL BE DONE AT NO COST TO THE OWNER.
8. THE CONTRACTOR SHALL REPORT ANY HAZARDOUS OR TOXIC MATERIALS DISCOVERED TO THE OWNER IMMEDIATELY.
9. WHERE NEW FINISHES ARE INDICATED OR NOTED ON THE DRAWINGS, CONTRACTOR SHALL MATCH THE FINISHES OF ADJACENT SURFACES. WHERE MATCHING EXISTING FINISHES IS NOT POSSIBLE, CONTRACTOR SHALL SUBMIT SUBSTITUTE OR EQUAL TO THE DESIGNER FOR APPROVAL.
10. WHERE OPENINGS ARE CREATED IN EXISTING CONSTRUCTION SCHEDULED TO REMAIN BY DEMOLITION WORK INDICATED HEREIN, SUCH AS REMOVAL OF EXISTING DOORS OR WINDOWS ON WALLS INDICATED TO REMAIN, NEW CONSTRUCTION OF SIMILAR TYPE AND THICKNESS TO MATCH ADJACENT SHALL BE USED TO FILL THOSE OPENINGS AND FINISHES INSTALLED TO MATCH EXISTING UNLESS NEW FINISHES ARE SCHEDULE FOR THOSE SURFACES.
11. WHERE EXISTING UTILITIES SUCH AS PLUMBING, ELECTRICAL, GAS, ETC. ARE AFFECTED BY DEMOLITION WORK, SUCH AS REMOVAL OF EXISTING PARTITION, THE SERVICES SHALL BE REMOVED TO A POINT WHERE THEY CAN BE CAPPED AND TERMINATED UNLESS OTHERWISE SHOWN ON THE DRAWINGS OF THE SPECIFIED DISCIPLINE TO BE RECONNECTED.
12. WHERE NEW FINISHES ARE SCHEDULED FOR EXISTING OR RENOVATED SPACES, THE CONTRACTOR SHALL REMOVE EXISTING FINISHES AND PREPARE SUBSTRATES TO RECEIVE NEW FINISHES AS SCHEDULED. PREPARATION OF SUBSTRATES SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING IF DEEMED BY THE DESIGNER:
    - PATCHING AND/ OR LEVELING FLOOR SLAB.
    - SANDING OF METAL FRAMES, ETC.
13. DURING RE-ROOFING SCOPES, CONTRACTOR SHALL PROVIDE TEMPORARY CEILINGS IN SPACES OPEN TO STRUCTURE AND THOSE WITH CRITICAL OPERATIONS SUCH AS FOOD PREP, COMPUTER LABS, ELECTRONICS, ETC. AS LISTED IN SPECIFICATIONS TO PROTECT SPACES FROM FALLING DEBRIS. THE CONTRACTOR SHALL ALSO MONITOR THE INTERIOR OF THE BUILDING FOR ALL LEAKS AND POTENTIAL DAMAGE AS THE ROOF WORK PROGRESSES AND BE PREPARED TO REACT TO EMERGENCY REPAIRS AND BE EQUIPPED WITH ANTI-STATIC COVERING MATERIAL TO PROTECT OWNERS FURNITURE, FIXTURES AND EQUIPMENT IMMEDIATELY. ANY CLEANING OR DAMAGE INCURRED FROM THE ROOF REPLACEMENT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

GENERAL NOTES

1. ALL GENERAL NOTES APPLY TO THE SCOPE OF THIS TOTAL PROJECT, REGARDLESS OF WHETHER OR NOT THEY ARE KEYED ON EVERY SHEET TO A SPECIFIC DETAIL.
2. EACH TRADE SHALL VERIFY ALL REQUIREMENTS PERTAINING TO WORK PERFORMED IN THE PROJECT AND ANY REQUIRED PERMITS. ALL SUBCONTRACTORS SHALL DIRECT QUESTIONS, CHANGES OR REQUESTS THROUGH THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL SUBMIT ALL REQUESTS, CHANGES OR QUESTIONS TO THE ARCHITECT IN WRITING.
3. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO REVIEW THE JOB SITE PRIOR TO BEGINNING CONSTRUCTION AND INFORM THE ARCHITECT OF ANY DISCREPANCIES, CONFLICTS, ETC.
4. THE ROOF PLANS ARE DRAWN TO SCALE AS INDICATED ON OWNER'S ORIGINAL CONSTRUCTION DOCUMENTS. PLANS INDICATE GENERALLY THE NUMBER, SIZE, THICKNESS, DEPTH, MAKE-UP, DETAIL AND LOCATION OF THE CURRENT ROOF CONDITIONS. IF MORE ACCURACY IS REQUIRED BY A CONTRACTOR, IT IS THEIR RESPONSIBILITY TO VISIT THE SITE, TAKE MEASUREMENTS, OR CORE SAMPLES IN THE FIELD AND VERIFY ITEMS RELEVANT TO THE PROJECT SCOPE.
5. ANY ARCHITECTURAL WORK REQUIRED TO BE PROVIDED IN THE SCOPE OF WORK GRAPHICALLY INDICATED BY THESE DRAWINGS IS A PART OF THE SCOPE OF THE CONSTRUCTION CONTRACT. IN THE EVENT ANY WORK IS INDICATED GRAPHICALLY AND NOT NOTED, THE WORK WILL BE EXPECTED TO BE PERFORMED AS PART OF THE CONSTRUCTION CONTRACT.
6. ALL DIMENSIONS ARE TO FACE OF FINISH MATERIAL OF NEW & EXISTING CONSTRUCTION UNLESS NOTED OTHERWISE.
7. DO NOT SCALE DRAWINGS. USE GIVEN DIMENSIONS ONLY. IF NOT SHOWN, VERIFY CORRECT DIMENSION WITH THE ARCHITECT. CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS AT JOB SITE.
8. THIS DOCUMENT IS PROVIDED FOR BASIC CONSTRUCTION PURPOSES ONLY. THE ARCHITECT DOES NOT WARRANT ANY MATERIAL, EQUIPMENT, HARDWARE, ETC. WHETHER IMPLIED OR EXPLICITLY CALLED OUT ON DRAWINGS.
9. ALL PERMITS (OCCUPANCY, ELECTRICAL, PLUMBING AND ALL OTHERS) REQUIRED BY STATE AND LOCAL CODES, EXCEPT THOSE ACQUIRED BY SUBCONTRACTORS, ARE TO BE SECURED BY THE GENERAL CONTRACTOR WITH COPIES TO OWNER AND ARCHITECT WITHOUT EXTRA COST. ALL PERMITS ACQUIRED BY SUBCONTRACTORS SHALL BE SUBMITTED TO THE GENERAL CONTRACTOR FOR RECORD.
10. IF ANTICIPATED MECHANICAL, PLUMBING, ELECTRICAL, STRUCTURAL ELEMENTS, OR ANY OTHER CONDITIONS ARE ENCOUNTERED WHICH MIGHT CONFLICT WITH THE INTENDED DESIGN, CONTACT ARCHITECT IMMEDIATELY FOR CLARIFICATION.
11. IF PROVIDED, THE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. SHOULD THERE BE A DISCREPANCY BETWEEN THE ARCHITECTURAL DRAWINGS AND THE ENGINEERING DRAWINGS, SUCH DISCREPANCY IS TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION OF SAID WORK. ANY WORK INSTALLED IN CONFLICT WITH THE ARCHITECTURAL DRAWINGS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND AT NO EXPENSE TO THE OWNER OR THE ARCHITECT.
12. CONTRACTOR TO VERIFY ALL CLEARANCES AS WELL AS ELECTRICAL AND PLUMBING REQUIREMENTS OF ALL OWNER FURNISHED, OWNER INSTALLED EQUIPMENT.
13. GENERAL CONTRACTOR TO PROVIDE WOOD BLOCKING (FIRE RETARDANT WHERE REQUIRED BY CODE) AS REQUIRED TO ENSURE FLUSH, STRAIGHT, WELL-SECURED CONDITIONS. IN ADDITION, COORDINATE WITH O.F.O.I SUPPLIERS FOR ADDITIONAL BLOCKING LOCATIONS.
14. THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION QUALITY MEETS OR EXCEEDS APPLICABLE CODES AND STANDARD PRACTICES, INCLUDING ALL FEDERAL, STATE, LOCAL BUILDING AND HANDICAP REQUIREMENTS AND REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY VIOLATION OF THE SAME AND SHALL MAKE ALL WORK ACCEPTABLE TO THE PUBLIC DEPARTMENT INVOLVED.
15. ALL CORE DRILLS, ROOF PENETRATIONS, X-RAY WORK AND OTHER CONSTRUCTION TASKS PERFORMED AT HIGH NOISE VOLUME SHALL BE COORDINATED WITH BUILDING MANAGEMENT FOR APPROPRIATE COMPLETION TIMES. HOURS AND TIMES SUBJECT TO CHANGE, PLEASE VERIFY WITH OWNER OR BUILDING ENGINEER.
16. TEAR OFF EXISTING ROOF COMPLETELY AND IN ITS ENTIRETY (ALL LAYERS IDENTIFIED OR DISCOVERED) DOWN TO EXISTING STRUCTURAL DECK SO THAT FULL INSPECTION CAN BE MADE. ALL EDGE METAL AND FABRICATIONS ARE TO BE REMOVED AND REPLACED.
17. ROOF CORES WERE COMPLETED PRIOR TO DESIGN. THE OBSERVED FINDINGS ARE LISTED ON THE DRAWINGS AS EXISTING CONDITIONS. HOWEVER, IF ANY AREAS DIFFER IN MATERIALS, LAYERS, THICKNESS, DEPTH, QUANTITY OR OVERALL MAKE-UP, IT IS STILL THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL MATERIALS DOWN TO THE DECK. CONTRACTOR IS WELCOME TO MAKE ADDITIONAL CORES. ARRANGEMENTS MUST BE COORDINATED WITH SCS CONSTRUCTION DEPARTMENT.
18. CONTRACTOR TO CONDUCT INSPECTIONS OF ALL EXISTING ROOF DECKING AFTER TEAR-OFF, PRIOR TO NEW INSTALL. NOTIFY THE ARCHITECT IF ANY STRUCTURALLY DAMAGED, DECAYED OR DETERIORATED DECKING IS FOUND.
19. CONTRACTOR SHALL FIELD VERIFY ALL PARAPET HEIGHTS, WIDTHS, MATERIALS AND CONSTRUCTION ASSEMBLIES AFTER TEAR OFF AND REPORT ANY DISCREPANCIES FROM DOCUMENTS TO THE ARCHITECT.
20. CONTRACTOR WILL BE RESPONSIBLE FOR IDENTIFYING ANY ABANDONED EQUIPMENT, SUPPORTS, PIPING, ETC. NOT ALREADY NOTED IN DOCUMENTS AND REPORT FINDINGS TO THE ARCHITECT AND OWNER FOR APPROVAL OF REMOVAL/REPAIR OF SAID EQUIPMENT.
21. EXCEPT WHERE NOTED OTHERWISE, INSTALL A NEW ROOFING SYSTEM AS INDICATED IN SCOPING REQUIREMENTS.

CLASSES ARE TYPICALLY BETWEEN THE HOURS OF:
7:00am AND 3:00pm M-F
THERE ARE BEFORE AND AFTER CARE HOURS:
CLASSES ARE CLOSED FOR HOLIDAYS AND SEMESTER BREAKS:
ACCESS TO CURRENT AND FUTURE SEMESTER CALENDARS CAN BE REQUESTED AT THE PRE-BID

IF ACCESS IS NEEDED TO CAMPUS DURING CLOSED HOURS, MAKE ARRANGEMENTS THROUGH THE MAIN OFFICE. GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR THE OVERTIME PAYMENT TO THE BUILDING / PLANT ENGINEER FOR ANY OVERTIME WORK REQUIRING ACCESS OF THE BUILDING FOR AFTER HOURS, WEEKEND OR HOLIDAY WORK.

22. EXTEND ROOF CURBS, FANS AND OTHER PENETRATIONS AS REQUIRED TO MAINTAIN A MINIMUM OF 8" FROM ROOF SURFACE TO TOP EDGE OF BASE FLASHING AFTER INSTALLATION OF TAPERED INSULATION OR AS REQUIRED BY ROOFING MANUFACTURER TO WARRANTY ROOF IN ACCORDANCE WITH SPECIFICATIONS.
23. EXTEND PIPE PENETRATIONS AS REQUIRED TO MAINTAIN A MINIMUM OF 12" MAX. (OR PER LOCAL CODE DEPT. REQUIREMENTS) FROM ROOF SURFACE TO TOP EDGE OF BASE FLASHING AFTER INSTALLATION OF TAPERED INSULATION OR AS REQUIRED BY ROOFING MANUFACTURER TO WARRANTY ROOF IN ACCORDANCE WITH SPECIFICATIONS. NOTE: ALL VENTS NEAR FRESH AIR INTAKES SHALL BE EXTEND 5'-0" ABOVE ROOF SURFACE.
24. FLASHING AND ROOFING SYSTEM DETAILS ARE GENERAL IN NATURE AND DRAWN TO SHOW DESIGN INTENT. ONCE MANUFACTURER IS SELECTED, DETAILS MAY ALTER AS REQUIRED BY MANUFACTURER TO WARRANTY ROOF IN ACCORDANCE WITH SPECIFICATIONS. NEW DETAILS MUST BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO INSTALL.
25. REFER TO MANUFACTURERS RECOMMENDATIONS FOR ALL INSIDE AND OUTSIDE FABRICATED ROOFING CORNER DETAILS.
26. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE POSITIVE DRAINAGE (1/4" PER FOOT MIN. UNLESS NOTED OTHERWISE) TO INSURE NO PONDING. DISCREPANCIES IN SLOPING SYSTEM TO BE FEATHERED OUT UTILIZING STANDARD TAPER STRIPS TO PROVIDE A UNIFORM SURFACE WITHOUT ABRUPT CHANGES IN PLANE. ALL WATER PONDING IS MEANS FOR REJECTION. CONTRACTOR TO FIELD VERIFY.
27. ALL EXISTING, PREVIOUSLY PAINTED ROOF ACCESSORIES, LADDERS, PIPE BOOTS AND ALL NEW GALVANIZED, STEEL & METAL ITEMS INSTALLED UNDER CONTRACT ARE TO BE PAINTED PER SPECIFICATIONS.
28. EXISTING PIPE AND DUCT SUPPORTS MAY NEED TO BE RECONFIGURED OR ADJUSTED DEPENDING ON DEPTH OF NEW AND TAPERED INSULATION IN RELATION TO THE EQUIPMENT LOCATION. PROVIDE NEW SUPPORTS WHERE ADDITIONAL SUPPORT IS NEEDED, EXISTING SUPPORTS WILL NOT WORK OR EXISTING SUPPORTS WILL INTERFERE WITH THE INTEGRITY OF THE NEW ROOF SYSTEM.
29. CONTRACTOR SHALL VERIFY THE SIZE OF ALL NEW PIPES AND DRAINS WITH EXISTING.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

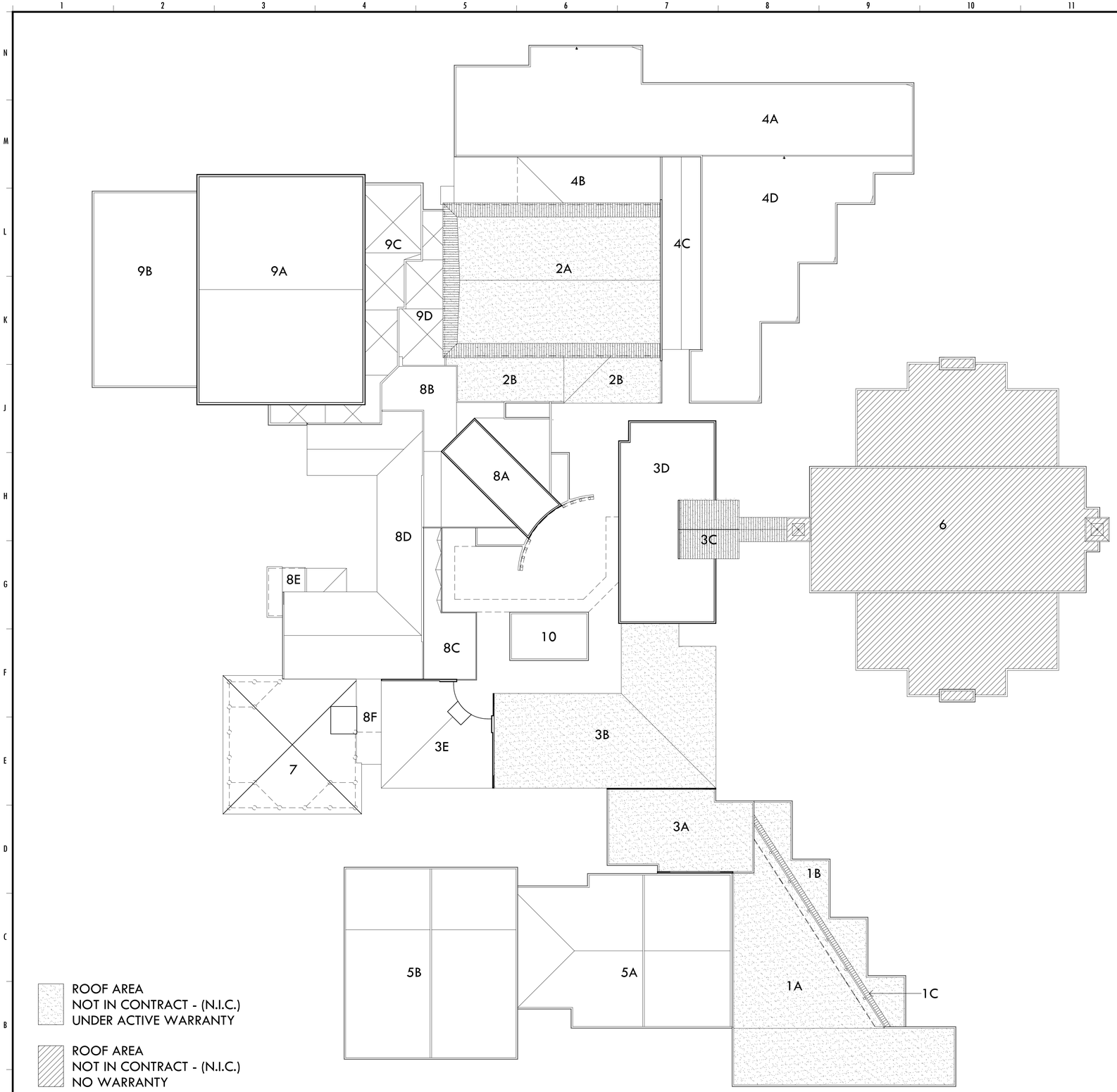
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

ABBREVIATIONS, LEGENDS, NOTES, & MAPS

Project No. 22009 Date 03.28.24

A0.1



ROOF AREA
NOT IN CONTRACT - (N.I.C.)
UNDER ACTIVE WARRANTY

ROOF AREA
NOT IN CONTRACT - (N.I.C.)
NO WARRANTY

A1 | **CAMPUS ROOF PLAN**

22009_APR-01 | 1/32" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

ENERGY CODE

IECC 2021 - CLIMATE ZONE 3A - COMMERCIAL
MEMPHIS TN - SHELBY COUNTY

LOCATION	TYPE	Min. U-factor	Min. R-value
ROOF	INSULATION ABOVE ROOF DECK	.039	25-ci

1. AN ASSEMBLY WITH A U-FACTOR EQUAL OR LESS THAN THAT LISTED ABOVE SHALL BE PERMITTED AS AN ALTERNATIVE TO THE R-VALUE LISTED ABOVE.
2. ci = CONTINUOUS INSULATION.

AIR BARRIERS

REQUIRED IN ZONE 3

OWNER DESIGN CRITERIA

MEMPHIS / SHELBY COUNTY SCHOOLS
DIVISION 07 00 00 - THERMAL & MOISTURE PROTECTION

ROOFING SYSTEM:

1. ROOF DESIGN AND SPECIFICATION SHALL BE APPROVED BY THE SCS DEPARTMENT OF DESIGN & CONSTRUCTION REPRESENTATIVE.
2. ALL ROOFS SHALL HAVE A POSITIVE SLOPE MINIMUM ¼" PER FOOT, UTILIZING THE SLOPE OF STRUCTURAL MEMBERS, (NOT TAPERED INSULATION) TO DRAINS, PREFERABLY AT THE PERIMETER. USE OF INTERIOR ROOF DRAINS IS DISCOURAGED.
3. SCS REQUESTS THAT ALL DESIGNERS CONSIDER WALL PENETRATIONS OVER ROOF PENETRATIONS WHEN POSSIBLE TO MINIMIZE IMPACTS AND COMPROMISES TO BUILDING ENVELOPE DURING DESIGN.
4. CARE SHALL BE TAKEN TO PROVIDE FOR BUILDING EXPANSION AND CONTRACTION.
5. ALL ROOF SYSTEMS SHALL BE DESIGNED TO MEET FACTORY MUTUAL (FM) CURRENT WIND UPLIFT REQUIREMENTS AND MAX WIND SPEED DESIGN.
6. MEDIUM AND LOW SLOPE ROOF SYSTEMS SHALL REQUIRE INSTALLER TO BE CERTIFIED BY THE PRODUCT MANUFACTURER OF THE SAME SYSTEM BEING INSTALLED AND PROOF SHALL BE REQUIRED.
7. ROOF WARRANTY SHALL INCLUDE A MINIMUM MANUFACTURER'S 20-YEAR, NO DOLLAR LIMIT, FULL SYSTEM WARRANTY, AND A 5-YEAR LABOR WARRANTY.

STEEP SLOPED ROOFS:

1. STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - STANDING SEAM KYNAR FINISHED STRUCTURAL METAL ROOFING SYSTEM OR ARCHITECTURAL SYSTEM OVER DECK, UTILIZING SEAMS THAT ARE AT LEAST 2-1/2" ABOVE THE PLANE OF THE ROOF PANEL AND SECURED BY MEANS OF CONCEALED CLEATS.
   - KYNAR FINISHED ALUMINUM SHOULD BE CONSIDERED IF BUDGET ALLOWS.
   - A MINIMUM SLOPE OF 3 INCHES PER FOOT SHALL BE MAINTAINED.
   - TOTAL ROOF INSULATION RATING FOR STEEP SLOPE ROOFS SHALL BE R-30 MINIMUM.
   - ALL POLY-ISO INSULATION SHALL BE INSTALLED OVER THE ROOF DECKING AND SHALL HAVE STAGGERED AND TAPED JOINTS. INSULATION JOINTS SHALL NOT ALIGN WITH ANY DECKING JOINTS TO PREVENT AIR AND MOISTURE INFILTRATION.

MEDIUM SLOPED ROOFS:

1. STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - STANDING SEAM METAL ROOFING AND/ OR DIMENSIONAL, FIBERGLASS SHINGLE ROOFING WEIGHING 300 POUNDS PER SQUARE OR GREATER ARE ACCEPTABLE.

LOW SLOPED ROOFS:

1. STEEP SLOPED ROOFS SHALL HAVE, BUT NOT BE LIMITED TO THE FOLLOWING:
   - FULLY ADHERED NON-BALLASTED 60 MIL (BLACK) EPDM IS PREFERRED. PVC AND TPO MEMBRANES WILL NOT BE ACCEPTED.
   - MINIMUM SLOPE TO POINT OF DISCHARGE SHALL BE ¼" PER FOOT.
   - PROVIDE WARRANTY AS REQUIRED BY DIVISION 01 78 00 - SPECIAL WARRANTIES AND MAINTENANCE AGREEMENTS.
   - MINIMUM R-30 INSULATION VALUE FOR ROOF SYSTEMS OR MINIMUM REQUIRED BY ENERGY CODE - WHICHEVER IS GREATER. MECHANICALLY FASTEN WHERE POSSIBLE, AND HOT MOP TO CONCRETE SURFACES. PROVIDE 2 LAYERS MINIMUM WITH JOINTS STAGGERED VERTICALLY. NO GYPSUM BOARD COVER BOARD.
   - ALL ROOF INSULATION SHALL BE PRODUCED CFC FREE

WIND DESIGN

IBC 2021 - CHAPTER 15 ROOF ASSEMBLIES

1504.6 EDGE SYSTEMS FOR LOW-SLOP ROOFS:
METAL EDGE SYSTEMS, EXCEPT GUTTERS AND COUNTERFLASHING, INSTALLED ON BUILT-UP, MODIFIED BITUMEN AND SINGLE-PLY ROOFING SYSTEMS HAVING A SLOPE LESS THAN 2:12 SHALL BE DESIGNED AND INSTALLED FOR WIND LOADS IN ACCORDANCE WITH CH 16 AND TESTED FOR RESISTANCE IN ACCORDANCE WITH TEST METHODS RE-1, RE-2 AND RE-3 OF ANSI/SPRI ES-1.

ANSI/SPRI/FM 4435/ES-1 / WIND DESIGN FOR EDGE SYSTEMS USED WITH LOW SLOPING ROOFING SYSTEMS:

WIND EXPOSURE:	CAT. C - OPEN WITH SCATTERED OBSTRUCTIONS
BUILDING IMPORTANCE FACTOR:	CAT. III - 1.15 FACTOR
FM DESIGN:	1-90

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

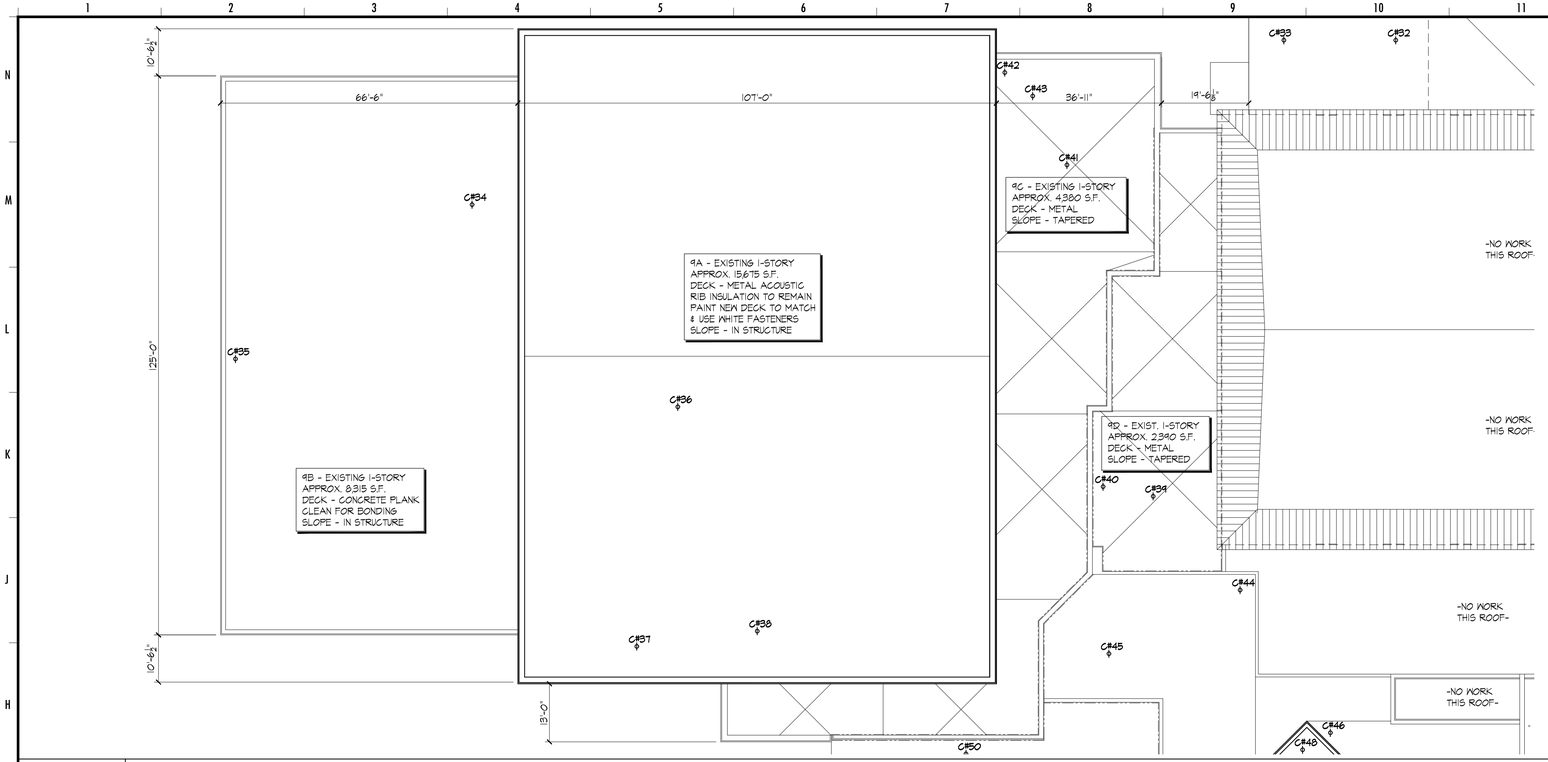
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

CAMPUS ROOF PLAN

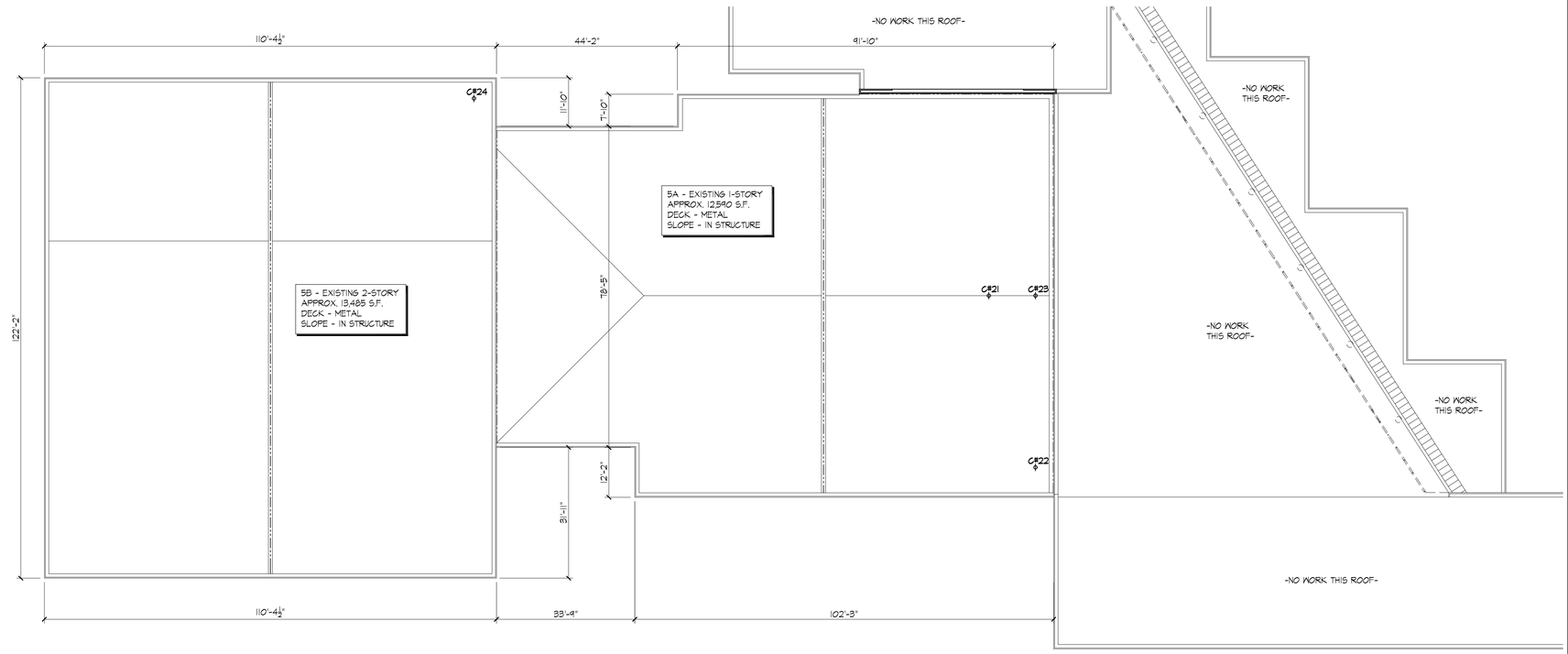
Project No. 22009 Date 03.28.24

A2.0



G1 EXISTING ROOF PLAN - GYM

22009_APR-01 | 1/16" = 1'-0"



A1 EXISTING ROOF PLAN - SOUTH

22009_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Existing Conditions:

1. DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
2. EXISTING ROOF SYSTEM VARIES BY BUILDING - SEE CORE SAMPLE REPORT.
3. EXISTING ROOF DRAINAGE VARIES BY BUILDING VIA INTERNAL ROOF DRAINS AND PERIMETER GUTTERS, OVERFLOW SCUPPERS AND DOWNSPOUTS - SEE PLANS.
4. ATTACHMENT 'B' DATED MARCH, 15, 2022 PROVIDED BY OWNER STATES THAT ALL ROOFS HAVE BEEN TESTED AND THE FOLLOWING AREAS HAVE BEEN IDENTIFIED WITH ASBESTOS-CONTAINING MATERIALS - "NONE PRESENT".
5. EXISTING ROOFS HAVE NEARBY POWER POLES, OVERHEAD LINES AND LOOSE LAID LINES. COORDINATE WITH LOCAL UTILITIES AND OWNER INCLUDING LOW VOLTAGE AND TELECOMMUNICATIONS.
6. ALL ROOFS CAN BE ACCESSED FROM EXISTING ROOF HATCHES AND WALL LADDERS. CONTRACTORS SHALL ACCESS ALL ROOFS VIA EXTERIOR LADDERS AND LIFTS. DO NOT ENTER BUILDINGS FOR ACCESS.
7. EXISTING PERIMETER WALLS HAVE EDGE METAL, COPINGS AND DRAINAGE SYSTEMS.
8. EXISTING PERIMETER WALLS HAVE SEVERAL ITEMS ATTACHED NEAR THE TOP EDGE METAL INCLUDING SITE LIGHTING, SECURITY CAMERAS, CONDUIT, AND PIPING. THESE ITEMS WILL NEED TO BE REMOVED AND REINSTALLED OR ALTERED DURING THE INSTALLATION OF THE NEW ROOFING SYSTEM AND EDGE METAL TRIM.
10. THERE ARE SEVERAL BUILDING EXPANSION JOINTS THAT ARE TO REMAIN. REMOVE EXISTING EXPANSION JOINT COVERS/ FLASHING AND PREP FOR NEW. REFER TO DETAILS.
11. NEW ROOFS WERE INSTALLED UNDER PHASE I WORK. THE ROOFS ARE UNDER WARRANTY WITH ELEVATE (FIRESTONE) AND JESSIE BRYANT ROOFING. CONTACT THEM FOR ANY POST WARRANTY WORK ON THESE ROOFS. DO NOT ACCESS, WALK-ON, STAGE OR STORE ANY ITEMS ON THESE ROOFS.
12. CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-03-23

CORE #21 - BLDG 5A - DRAIN
- Modified Bit Roofing
- 1" perlite
- 2" polyiso
- metal deck (slope)

TOTAL: 3.75"

CORE #22 - BLDG 5A - HIGH
- Modified Bit Roofing
- 1" perlite
- 2" polyiso
- metal deck (slope)

TOTAL: 3.75"

CORE #23 - BLDG 5A - MID
- Modified Bit Roofing
- 1" perlite
- 2" polyiso
- metal deck (slope)

TOTAL: 3.75"

CORE #24 - BLDG 5B - HIGH
- Modified Bit Roofing
- 1" perlite
- 2" polyiso
- metal deck (slope)

TOTAL: 3.75"

CORE #34 - BLDG 9B - HIGH
- EPDM
- 3" polyiso
- concrete planks (slope)

TOTAL: 3"

CORE #35 - BLDG 9B - LOW
- EPDM
- 3" polyiso
- concrete planks (slope)

TOTAL: 3.0"

CORE #36 - BLDG 9A - RIDGE
- EPDM w/ ballast
- 3" polyiso
- .5 gypsum
- metal deck (slope)
- *acoustical

TOTAL: 3.5"

CORE #37 - BLDG 9A - LOW
- EPDM w/ ballast
- 1" perlite
- 1" polyiso
- .5 gypsum
- metal deck (slope)
- *seems patched

TOTAL: 3.0"

CORE #38 - BLDG 9A - LOW
- EPDM w/ ballast
- 3" polyiso
- .5 gypsum
- metal deck (slope)

TOTAL: 3.5"

CORE #39 - BLDG 9D - DRAIN
- EPDM w/ ballast
- 1" EPS
- (2) 1.5" polyiso
- .5 lightweight
- metal deck (flat)

TOTAL: 4.5"

CORE #40 - BLDG 9D - HIGH
- EPDM w/ ballast
- 3.5" EPS
- (2) 1.5" polyiso
- .5 lightweight
- metal deck (flat)

TOTAL: 7.0"

CORE #41 - BLDG 9C - DRAIN
- EPDM w/ ballast
- .5" EPS
- 3" polyiso
- .5 gypsum
- metal deck (flat)

TOTAL: 4.0"

CORE #42 - BLDG 9C - HIGH
- EPDM w/ ballast
- (2) 1.5" perlite
- 3" polyiso
- .5 gypsum
- metal deck (flat)

TOTAL: 6.5"

CORE #43 - BLDG 9C - MID
- EPDM w/ ballast
- 1.5" perlite
- 2.5" polyiso
- .5 gypsum
- metal deck (flat)

TOTAL: 4.5"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

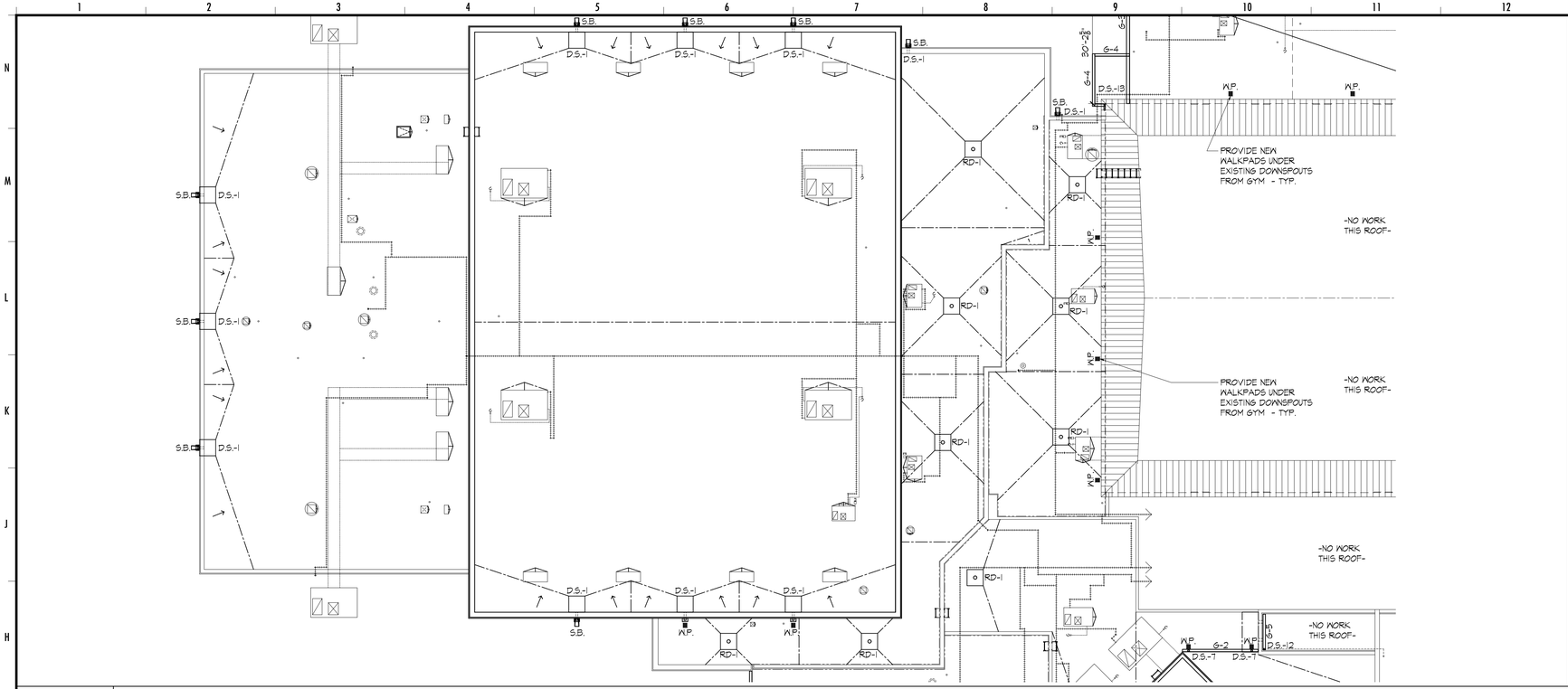
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

EXISTING ROOF PLAN

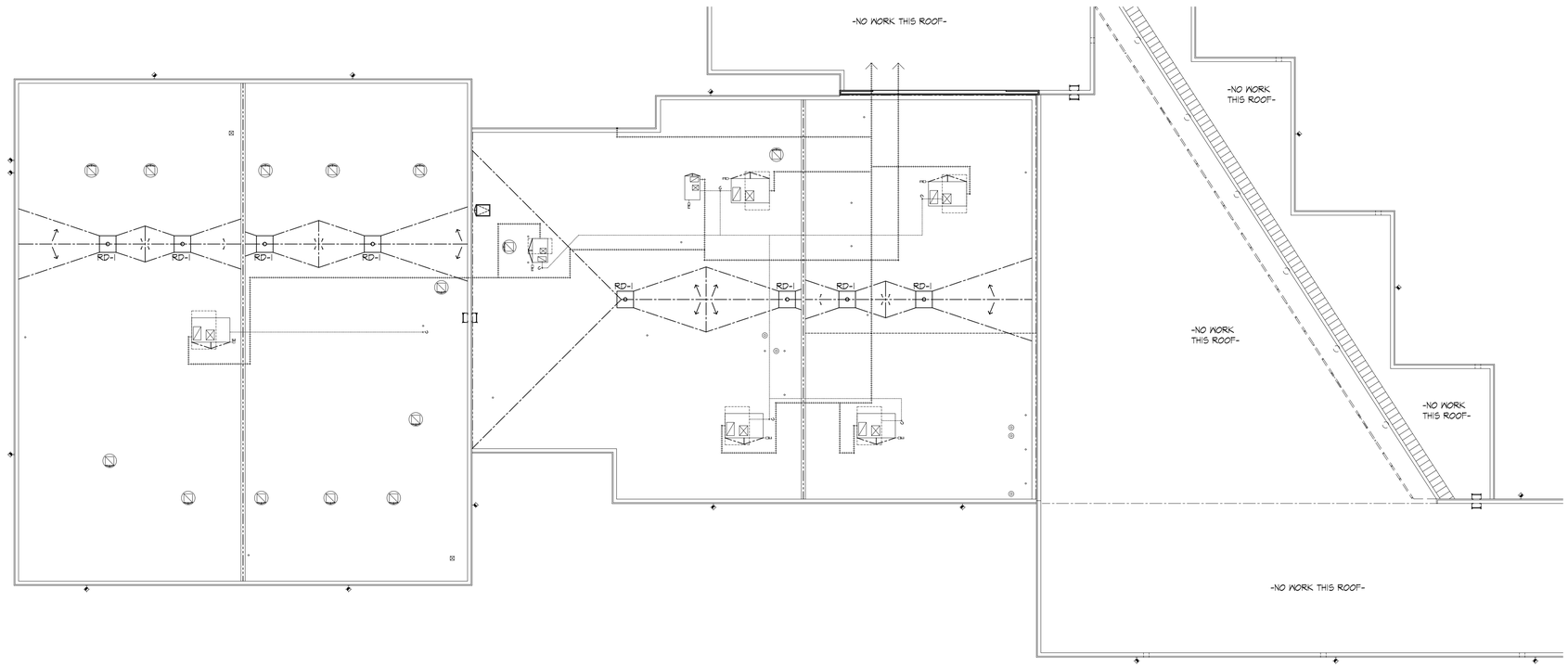
Project No. 22009 Date 03.28.24

A2.1



G1 EXISTING ROOF PLAN - GYM

22009_APR-01 | 1/16" = 1'-0"



A1 DRAINAGE PLAN - SOUTH

22006_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FAB FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HB HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Drain Schedule:

RD-1	EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE.
RD-2	N/A
P.D.	EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT
G-1	7X10 GUTTER
G-2	7x6 GUTTER
G-3	7X7 GUTTER
G-4	4x4 GUTTER
G-5	5x5 GUTTER
D.S.-1	6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-2	4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW
D.S.-3	4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS
D.S.-4	4x6 DOWNSPOUT - SET ON ADJACENT WALL
D.S.-5	4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-6	4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF WALL OR BUILDING FACADE *SEE NOTE 6*
D.S.-7	4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING
D.S.-8	4X5 DOWNSPOUT - CENTER ON COLUMN
D.S.-9	4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-10	6x6 DOWNSPOUT - CENTER OF WALL *SEE NOTE 6*
D.S.-11	5x7 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-12	4x4 DOWNSPOUT - SET ON ADJACENT WALL AND RUN HORIZONTAL HIGH ALONG WALL - SPILL TO YARD
D.S.-13	4x4 DOWNSPOUT - TIE INTO SIDE OF EXISTING 4x6 OLD GYM DOWNSPOUT
S.B.	PROVIDE NEW CONCRETE SPLASH BLOCK FOR ON-GROUND DOWNSPOUTS - SEE A4/A3.9.
S.D.	PROVIDE REDUCERS AND CONNECTION PIECES TO TIE INTO EXISTING BOOT, TRENCH AND STORM DRAIN SYSTEM - SEE A1/A3.9.
W.P.	PROVIDE NEW WALK PAD (SPLASH PAD) FOR ON-ROOF DOWNSPOUTS - E10/A3.1 OR A10/A3.9.
N.W.	NEW DRAIN WILL SPILL ONTO EXISTING CONCRETE WALKWAY AS A SPLASH BLOCK WOULD BE IN THE PATH OF TRAVEL - A7/A3.9.
M.A.	NEW DRAIN WILL SPILL ONTO EXISTING METAL AWNING.

NOTES:

1. BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
2. PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
3. INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
4. TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
5. SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
6. NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S-6 LOCATION B/W "T" CAFE AND BUILDING "3E" - PAINT. SEE DETAIL A14/A3.9.
7. HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

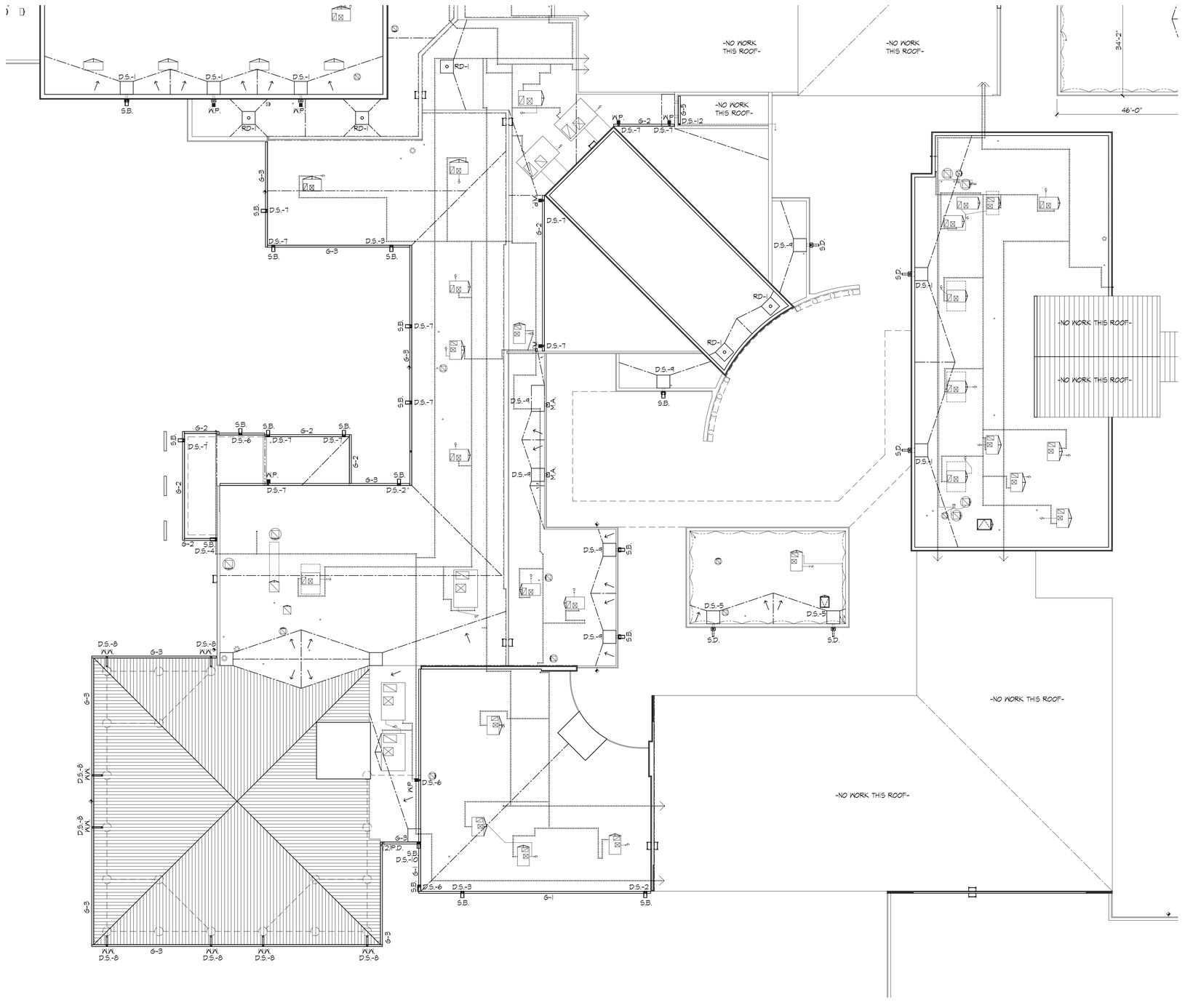
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

DRAINAGE PLAN

Project No. 22009 Date 03.28.24

A2.10



Legend:

ROOF DRAIN (R.D.) / OVERFLOW DRAIN (O.F.)	WALKWAY PADS
ROOF EQUIPMENT CURB (w/ CRICKET)	CONDUIT
ROOF EXHAUST FAN	PIPING
PITCH POCKET (P.P.)	ROOF EXPANSION JOINT
ROOF PIPE PENETRATION (V.T.R.)	TAPERED INSULATION RIDGE / VALLEY
HEAT VENT (FLUE)	TAPERED INSULATION LEVELS
ELECTRIC BOX AND CONDUIT DROP	EXISTING STORM DRAIN LINE - APPROX.
ACCESS LADDER	NEW STORM DRAIN LINE - ASSUMED
ROOF HATCH	EXISTING STORM DRAIN CATCH BASIN
LIGHTING ROD SYSTEM (LR)	THRU-WALL OVERFLOW (O.F.)
ANTENNA	DOWNSPOUT (COLLECTION BOX) (D.S.)
FIRE ALARM BELL	DOWNSPOUT (GUTTER) (D.S.)
EXTERIOR LIGHTING	SPLASH BLOCK (S.B.)
SECURITY CAMERA	DRAIN BOOT AND PIPE (S.D.)
SATELLITE	PVC PIPE DRAIN (P.D.)
	HOSE BIB
	ROOF CORE SAMPLE
	TURBINE VENT

Drain Schedule:

RD-1	EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE.
RD-2	N/A
P.D.	EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT
G-1	7X10 GUTTER
G-2	7x6 GUTTER
G-3	7X7 GUTTER
G-4	4x4 GUTTER
G-5	5x5 GUTTER
D.S.-1	6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-2	4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW
D.S.-3	4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS
D.S.-4	4x6 DOWNSPOUT - SET ON ADJACENT WALL
D.S.-5	4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-6	4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF WALL OR BUILDING FACADE *SEE NOTE 6*
D.S.-7	4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING
D.S.-8	4X5 DOWNSPOUT - CENTER ON COLUMN
D.S.-9	4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-10	6x6 DOWNSPOUT - CENTER OF WALL *SEE NOTE 6*
D.S.-11	5x7 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-12	4x4 DOWNSPOUT - SET ON ADJACENT WALL AND RUN HORIZONTAL HIGH ALONG WALL - SPILL TO YARD
D.S.-13	4x4 DOWNSPOUT - TIE INTO SIDE OF EXISTING 4x6 OLD GYM DOWNSPOUT
S.B.	PROVIDE NEW CONCRETE SPLASH BLOCK FOR ON-GROUND DOWNSPOUTS - SEE A4/A3.9.
S.D.	PROVIDE REDUCERS AND CONNECTION PIECES TO TIE INTO EXISTING BOOT, TRENCH AND STORM DRAIN SYSTEM - SEE A1/A3.9.
W.P.	PROVIDE NEW WALK PAD (SPLASH PAD) FOR ON-ROOF DOWNSPOUTS - E10/A3.1 OR A10/A3.9.
N.W.	NEW DRAIN WILL SPILL ONTO EXISTING CONCRETE WALKWAY AS A SPLASH BLOCK WOULD BE IN THE PATH OF TRAVEL - A7/A3.9.
M.A.	NEW DRAIN WILL SPILL ONTO EXISTING METAL AWNING.

NOTES:

1. BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
2. PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
3. INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
4. TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
5. SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
6. NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S.-6 LOCATION B/W "T" CAFE AND BUILDING "3E" - PAINT. SEE DETAIL A1/A3.9.
7. HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

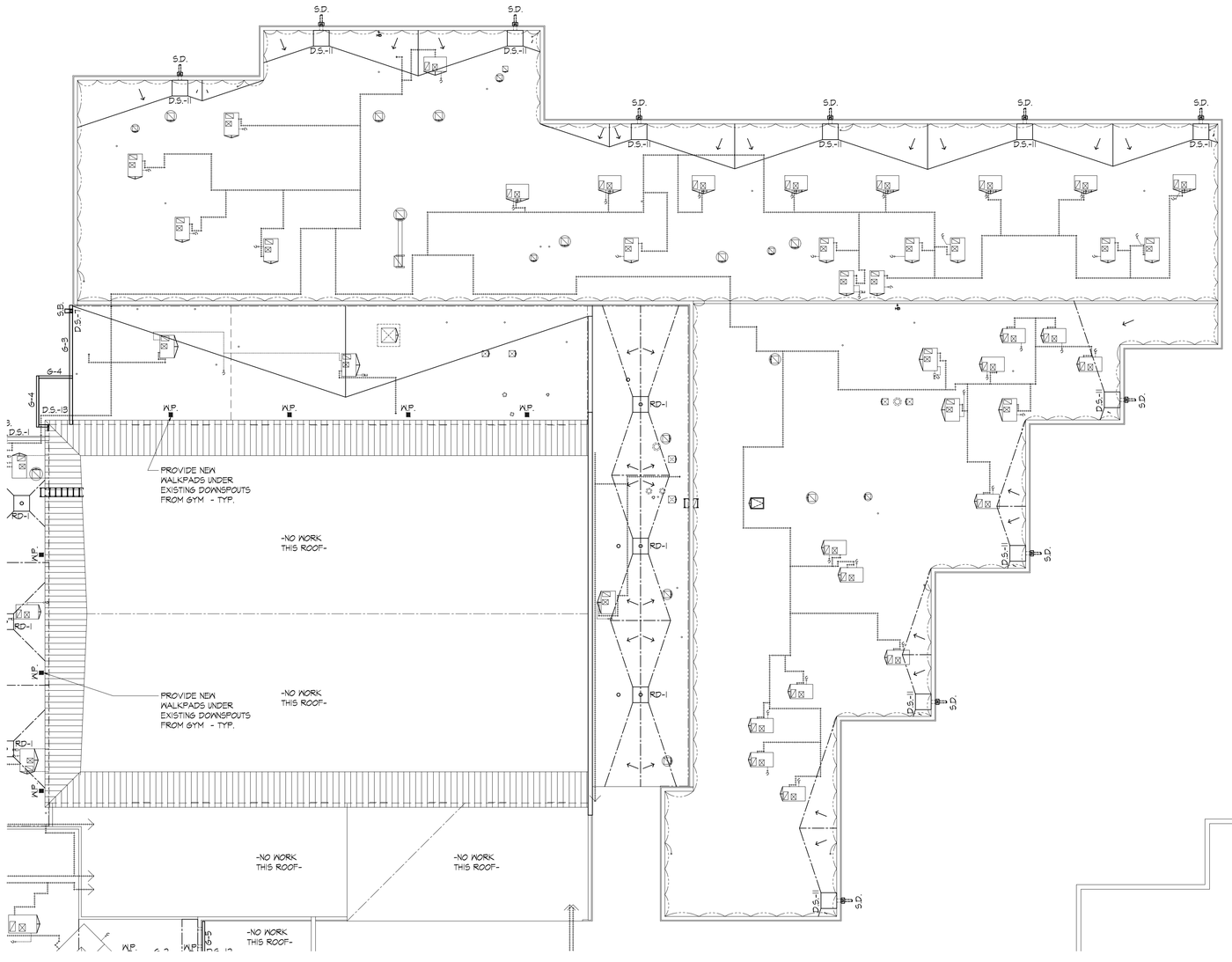
DRAINAGE PLAN

Project No. 22009 Date 03.28.24

A2.11

A1 | **DRAINAGE PLAN - NORTH**

22006_APR-01 | 1/16" = 1'-0"



Legend:

- ROOF DRAIN (R.D.) / OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Drain Schedule:

RD-1	EXISTING ROOF DRAIN WITH NEW RETRO-DRAIN - FIELD VERIFY DRAIN SIZE.
RD-2	N/A
P.D.	EXISTING PIPE DRAIN - REPLACE AND RETROFIT UPPER PORTIONS AND CONCEAL IN NEW SOFFIT
G-1	7X10 GUTTER
G-2	7x6 GUTTER
G-3	7X7 GUTTER
G-4	4x4 GUTTER
G-5	5x5 GUTTER
D.S.-1	6x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-2	4x6 DOWNSPOUT - CENTER B/W EXP JT AND WINDOW -OR- BLDG CORNER AND WINDOW
D.S.-3	4x6 DOWNSPOUT - CENTER B/W WINDOW OR BRICK ELEMENTS
D.S.-4	4x6 DOWNSPOUT - SET ON ADJACENT WALL
D.S.-5	4x6 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-6	4x6 DOWNSPOUT - CENTER ON COLUMN, SECTION OF WALL OR BUILDING FACADE *SEE NOTE 6*
D.S.-7	4x6 DOWNSPOUT - SET OFF CORNER OF BUILDING OR MASONRY OPENING
D.S.-8	4X5 DOWNSPOUT - CENTER ON COLUMN
D.S.-9	4x4 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-10	6x6 DOWNSPOUT - CENTER OF WALL *SEE NOTE 6*
D.S.-11	5x7 DOWNSPOUT - CENTER UNDER EXISTING SCUPPER
D.S.-12	4x4 DOWNSPOUT - SET ON ADJACENT WALL AND RUN HORIZONTAL HIGH ALONG WALL - SPILL TO YARD
D.S.-13	4x4 DOWNSPOUT - TIE INTO SIDE OF EXISTING 4x6 OLD GYM DOWNSPOUT
S.B.	PROVIDE NEW CONCRETE SPLASH BLOCK FOR ON-GROUND DOWNSPOUTS - SEE A4/A3.9.
S.D.	PROVIDE REDUCERS AND CONNECTION PIECES TO TIE INTO EXISTING BOOT, TRENCH AND STORM DRAIN SYSTEM - SEE A1/A3.9.
W.P.	PROVIDE NEW WALK PAD (SPLASH PAD) FOR ON-ROOF DOWNSPOUTS - E10/A3.1 OR A10/A3.9.
W.W.	NEW DRAIN WILL SPILL ONTO EXISTING CONCRETE WALKWAY AS A SPLASH BLOCK WOULD BE IN THE PATH OF TRAVEL - A7/A3.9.
M.A.	NEW DRAIN WILL SPILL ONTO EXISTING METAL AWNING.

NOTES:

1. BACK-FILL, SOD OR MULCH ALL GROUND AREAS DISTURBED DURING DRAIN INSTALLATION OR BY PREVIOUS WASH-OUT. FILL TO MATCH ELEVATION OF ADJACENT LAND AND ENSURE DRAINAGE AWAY FROM BUILDING. PROTECT, REPLANT OR REPLACE ALL DISTURBED LANDSCAPING.
2. PATCH OLD MOUNTING HOLES IN MASONRY WALL FROM REMOVED D.S. BRACKETS AND SUPPORTS.
3. INSTALL SCREENS AT ALL SCUPPER LOCATIONS AND GUTTERS.
4. TAPER NEW DOWNSPOUTS WHERE NEEDED TO FIT INTO EXISTING CAST IRON BOOTS.
5. SAND, PRIME AND PAINT EXISTING AND NEW CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
6. NEW CAST IRON BOOT TO MATCH EXISTING SHALL BE INSTALLED AT D.S.-10 & D.S-6 LOCATION B/W "T" CAFE AND BUILDING "3E" - PAINT. SEE DETAIL A14/A3.9.
7. HANGERS AND STRAPS REQUIRED ON ALL GUTTERS.

braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

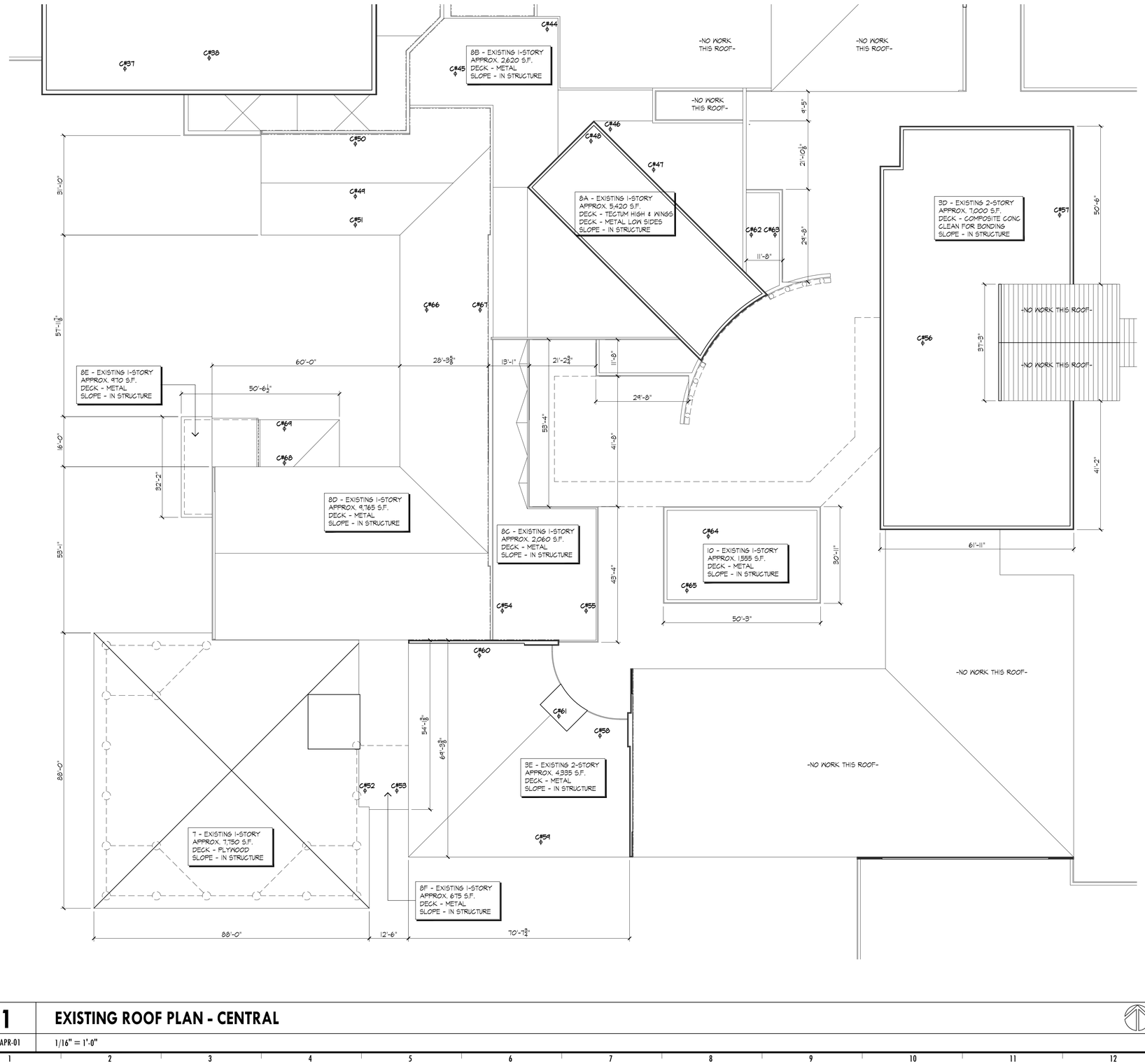
DRAINAGE PLAN

Project No. 22009 Date 03.28.24

A2.12

A1 DRAINAGE PLAN - NORTH

22006_APR-01 | 1/16" = 1'-0"



Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Existing Conditions:

1. DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
2. EXISTING ROOF SYSTEM VARIES BY BUILDING - SEE CORE SAMPLE REPORT.
3. EXISTING ROOF DRAINAGE VARIES BY BUILDING VIA INTERNAL ROOF DRAINS AND PERIMETER GUTTERS, OVERFLOW SCUPPERS AND DOWNSPOUTS - SEE PLANS.
4. ATTACHMENT 'B' DATED MARCH, 15, 2022 PROVIDED BY OWNER STATES THAT ALL ROOFS HAVE BEEN TESTED AND THE FOLLOWING AREAS HAVE BEEN IDENTIFIED WITH ASBESTOS-CONTAINING MATERIALS - "NONE PRESENT".
5. EXISTING ROOFS HAVE NEARBY POWER POLES, OVERHEAD LINES AND LOOSE LAID LINES. COORDINATE WITH LOCAL UTILITIES AND OWNER INCLUDING LOW VOLTAGE AND TELECOMMUNICATIONS.
6. ALL ROOFS CAN BE ACCESSED FROM EXISTING ROOF HATCHES AND WALL LADDERS. CONTRACTORS SHALL ACCESS ALL ROOFS VIA EXTERIOR LADDERS AND LIFTS. DO NOT ENTER BUILDINGS FOR ACCESS.
7. EXISTING PERIMETER WALLS HAVE EDGE METAL, COPINGS AND DRAINAGE SYSTEMS.
8. EXISTING PERIMETER WALLS HAVE SEVERAL ITEMS ATTACHED NEAR THE TOP EDGE METAL INCLUDING SITE LIGHTING, SECURITY CAMERAS, CONDUIT, AND PIPING. THESE ITEMS WILL NEED TO BE REMOVED AND REINSTALLED OR ALTERED DURING THE INSTALLATION OF THE NEW ROOFING SYSTEM AND EDGE METAL TRIM.
10. THERE ARE SEVERAL BUILDING EXPANSION JOINTS THAT ARE TO REMAIN. REMOVE EXISTING EXPANSION JOINT COVERS/ FLASHING AND PREP FOR NEW. REFER TO DETAILS.
11. NEW ROOFS WERE INSTALLED UNDER PHASE I WORK. THE ROOFS ARE UNDER WARRANTY WITH ELEVATE (FIRESTONE) AND JESSIE BRYANT ROOFING. CONTACT THEM FOR ANY POST WARRANTY WORK ON THESE ROOFS. DO NOT ACCESS, WALK-ON, STAGE OR STORE ANY ITEMS ON THESE ROOFS.
12. CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-03-23

CORE #44 - BLDG 8B - HIGH
- Modified Bit Roofing
- .5" perlite
- 2" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #45 - BLDG 8B - DRAIN
- Modified Bit Roofing
- .5" perlite
- 2" polyiso
- base sheet
- .5" gypsum
- metal deck (slope))

TOTAL: 5.0"

CORE #46 - BLDG 8A wing - LOW
- Modified Bit Roofing
- .5" perlite
- base sheet
- .5" gypsum
- tectum deck (slope)

TOTAL: 2.0"

CORE #47 - BLDG 8A wing - MID
- Modified Bit Roofing
- .5" perlite
- base sheet
- .5" gypsum
- tectum deck (slope)

TOTAL: 2.0"

CORE #48 - BLDG 8A - HIGH
- Modified Bit Roofing
- 1" perlite
- base sheet
- tectum deck (slope)

TOTAL: 1.5"

CORE #49 - BLDG 8D - old RIDGE
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 5.5"

CORE #50 - BLDG 8D - infill HIGH
- Modified Bit Roofing
- 1" perlite
- 1" polyiso (infill)
- old Mod Bit roof layer
- 3" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 7.0"

CORE #51 - BLDG 8D - LOW
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #52 - BLDG 8F - HIGH
- Modified Bit Roofing
- .5" perlite
- 3" polyiso
- metal deck (slope)

TOTAL: 4.0"

CORE #53 - BLDG 8F - LOW
- Modified Bit Roofing
- .5" perlite
- 3" polyiso
- metal deck (slope)

TOTAL: 4.0"

CORE #54 - BLDG 8C - HIGH
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #55 - BLDG 8C - LOW
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- base sheet
- .5" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #56 - BLDG 3D - LOW
- Modified Bit Roofing
- .75" perlite
- 1.5" polyiso
- built-up roof
- vapor barrier
- conc composite deck (slope)

TOTAL: 3.0"

CORE #57 - BLDG 3D - HIGH
- Modified Bit Roofing
- .75" perlite
- 1.5" polyiso
- built-up roof
- vapor barrier
- conc composite deck (slope)

TOTAL: 3.0"

CORE #58 - BLDG 3E - HIGH
- Modified Bit Roofing
- 1" perlite
- 2.5" polyiso
- built-up roof
- .75" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #59 - BLDG 3E - LOW
- Modified Bit Roofing
- 1" perlite
- 2.5" polyiso
- built-up roof
- .75" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #60 - BLDG 3E - MID
- Modified Bit Roofing
- 1" perlite
- 2.5" polyiso
- built-up roof
- .75" gypsum
- metal deck (slope)

TOTAL: 5.0"

CORE #61 - BLDG 3E - ELEV
- Modified Bit Roofing
- 1" per lite
- 1" polyiso
- built-up roof
- 2.5" polyiso
- .75" gypsum
- metal deck (slope)

TOTAL: 6.5"

CORE #62/63 - BLDG 8A side - HI/LOW
- Modified Bit Roofing
- 2" polyiso
- 1" perlite
- 2" polyiso
- metal deck (slope)

TOTAL: 6"

CORE #64/65 - BLDG 10 - HI/LOW
- EPDM w/ ballast
- 3" polyiso
- metal deck (slope)

TOTAL: 3"

CORE #66/67 - BLDG 8D - LOW/HI
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- .5" gypsum
- metal deck (slope)

TOTAL: 4.5"

CORE #68/69 - BLDG 8D - HI/LOW
- Modified Bit Roofing
- 1" perlite
- 3" polyiso
- .5" gypsum
- metal deck (slope)

TOTAL: 4.5"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

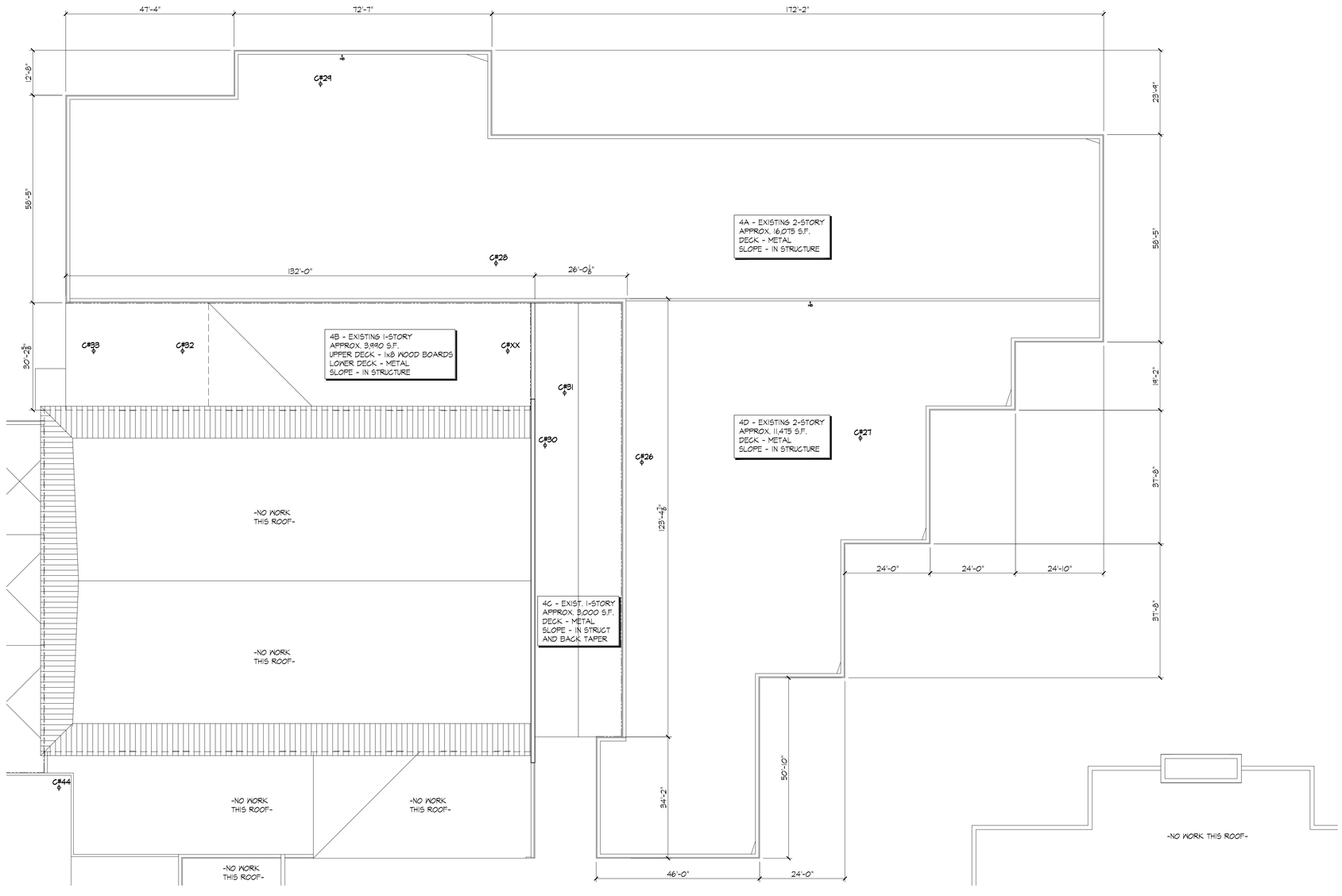
EXISTING ROOF PLAN

Project No. 22009 Date 03.28.24

A2.2

A1 | **EXISTING ROOF PLAN - CENTRAL**

22009_APR-01 | 1/16" = 1'-0"



A1 EXISTING ROOF PLAN - NORTH

22009_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Existing Conditions:

1. DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS.
2. EXISTING ROOF SYSTEM VARIES BY BUILDING - SEE CORE SAMPLE REPORT.
3. EXISTING ROOF DRAINAGE VARIES BY BUILDING VIA INTERNAL ROOF DRAINS AND PERIMETER GUTTERS, OVERFLOW SCUPPERS AND DOWNSPOUTS - SEE PLANS.
4. ATTACHMENT 'B' DATED MARCH, 15, 2022 PROVIDED BY OWNER STATES THAT ALL ROOFS HAVE BEEN TESTED AND THE FOLLOWING AREAS HAVE BEEN IDENTIFIED WITH ASBESTOS-CONTAINING MATERIALS - "NONE PRESENT".
5. EXISTING ROOFS HAVE NEARBY POWER POLES, OVERHEAD LINES AND LOOSE LAID LINES. COORDINATE WITH LOCAL UTILITIES AND OWNER INCLUDING LOW VOLTAGE AND TELECOMMUNICATIONS.
6. ALL ROOFS CAN BE ACCESSED FROM EXISTING ROOF HATCHES AND WALL LADDERS. CONTRACTORS SHALL ACCESS ALL ROOFS VIA EXTERIOR LADDERS AND LIFTS. DO NOT ENTER BUILDINGS FOR ACCESS.
7. EXISTING PERIMETER WALLS HAVE EDGE METAL, COPINGS AND DRAINAGE SYSTEMS.
8. EXISTING PERIMETER WALLS HAVE SEVERAL ITEMS ATTACHED NEAR THE TOP EDGE METAL INCLUDING SITE LIGHTING, SECURITY CAMERAS, CONDUIT, AND PIPING. THESE ITEMS WILL NEED TO BE REMOVED AND REINSTALLED OR ALTERED DURING THE INSTALLATION OF THE NEW ROOFING SYSTEM AND EDGE METAL TRIM.
10. THERE ARE SEVERAL BUILDING EXPANSION JOINTS THAT ARE TO REMAIN. REMOVE EXISTING EXPANSION JOINT COVERS/ FLASHING AND PREP FOR NEW. REFER TO DETAILS.
11. NEW ROOFS WERE INSTALLED UNDER PHASE I WORK. THE ROOFS ARE UNDER WARRANTY WITH ELEVATE (FIRESTONE) AND JESSIE BRYANT ROOFING. CONTACT THEM FOR ANY POST WARRANTY WORK ON THESE ROOFS. DO NOT ACCESS, WALK-ON, STAGE OR STORE ANY ITEMS ON THESE ROOFS.
12. CORE SAMPLE REPORT: dated 07-12-23, 10-18-23, 11-03-23

CORE #26 - BLDG 4D - HIGH
- EPDM w/ ballast
- 3" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #27 - BLDG 4D - LOW
- EPDM w/ ballast
- 3" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #28 - BLDG 4A - HIGH
- EPDM w/ ballast
- 3" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #29 - BLDG 4A - LOW
- EPDM w/ ballast
- 3" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #30 - BLDG 4C - HIGH
- EPDM
- (2) 1.5" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #31 - BLDG 4C - DRAIN
- EPDM
- (2) 1.5" polyiso
- metal deck (slope)

TOTAL: 3.0"

CORE #XX - BLDG 4B - HIGH
- NO READING
- wood deck

TOTAL: XX"

CORE #32 - BLDG 4B - MID
- EPDM
- 1.5" polyiso
- 2" polyiso
- 2.5" polyiso
- metal deck (flat)

TOTAL: 6-7"

CORE #33 - BLDG 4B - LOW
- EPDM
- 1.5" polyiso
- 2.5" polyiso
- metal deck (flat)

TOTAL: 4"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

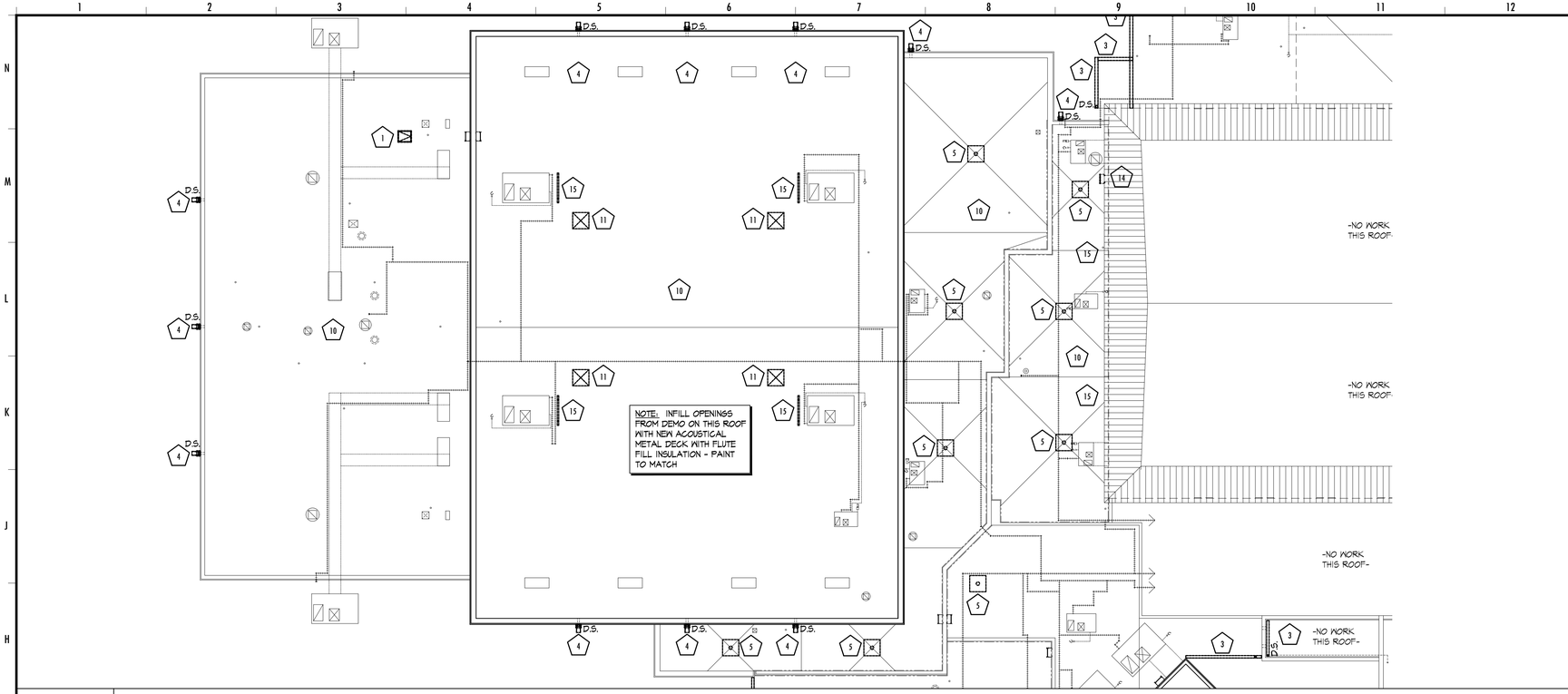
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

EXISTING ROOF PLAN

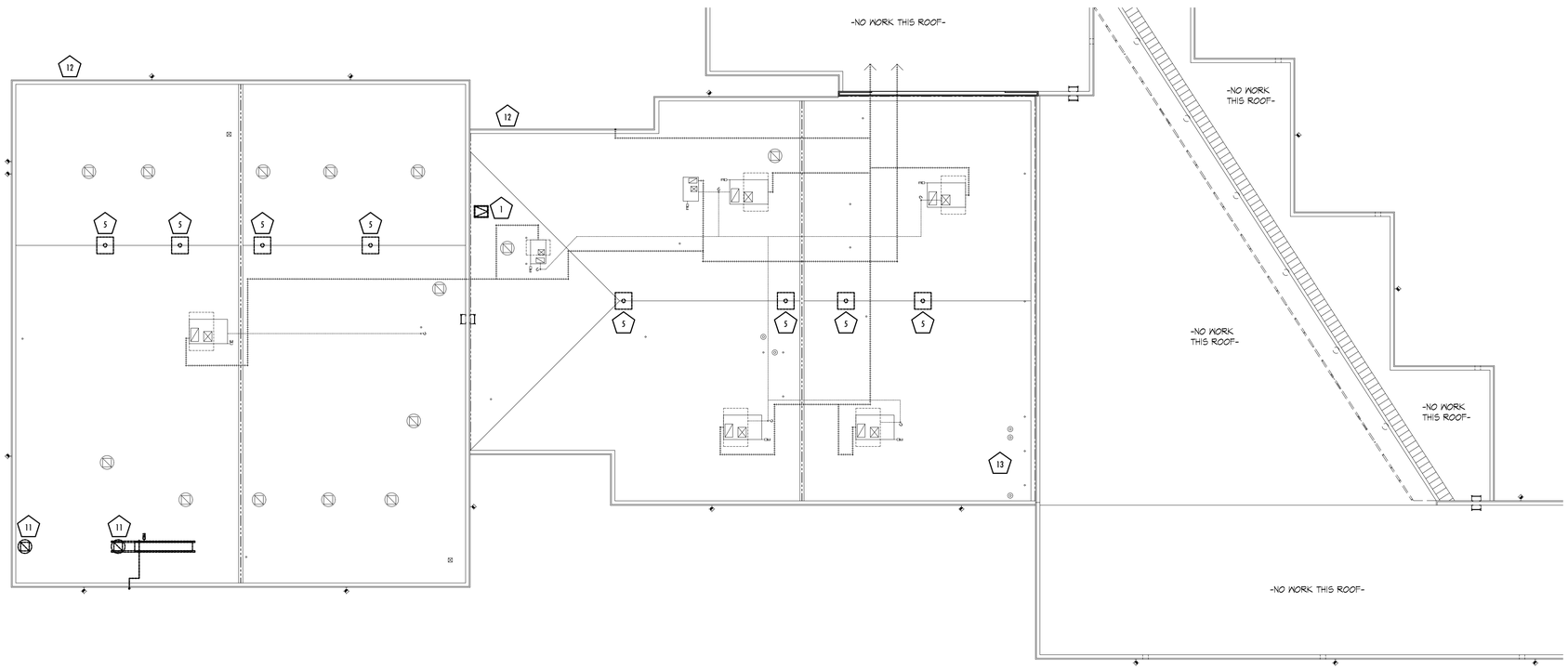
Project No. 22009 Date 03.28.24

A2.3



G1 DEMOLITION ROOF PLAN - GYM

22009_APR-01 | 1/16" = 1'-0"



A1 DEMOLITION ROOF PLAN - NORTH

22009_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Demolition & Surface Prep:

GENERAL DEMOLITION NOTES

1. REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSCS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
2. REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI ES-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3 & 603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD CAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
3. REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
4. TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
5. ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
6. EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
7. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
8. REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
9. RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND CURBS TO ALLOW FOR 8" MIN. FLASHING.
10. RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
11. EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE 903.1.
12. CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
13. REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
14. CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
15. REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOW 795 SEALANT.
16. REMOVE OR CAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSCS.
17. CONTRACTOR TO WALK ROOFS WITH MSCS MP&E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR CAPPED.
18. REFER TO DRAWINGS FOR OTHER DEMO NOTES.

1. DEMO EXISTING 30x36 ROOF HATCH AND PREP FOR NEW ROOF HATCH. NOTE 1a WILL BE A 36x48 HATCH
2. DEMO EXISTING PARAPET WALL ABOVE ROOF TO COORDINATE WITH NEW INSULATION HEIGHTS EXTEND TO BUILDING CONTROL JOINT.
3. DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM.
4. DEMO EXISTING COLLECTOR HEAD AND DOWNSPOUT PREP FOR NEW COLLECTOR HEAD AND DOWNSPOUT SYSTEM.
5. DEMO EXISTING INTERIOR ROOF DRAIN OVER FLOW DRAIN WHERE APPLICABLE AND PREP FOR NEW RETRO-DRAIN.
6. DEMO OR INFILL EXISTING INTERNAL ROOF GUTTERS WITH INSULATION. REFER TO DETAILS.
7. REMOVE EXISTING ROOF TURBINE VENTS.
8. REMOVE EXISTING ABANDONED PITCH POCKETS WHERE NO EQUIPMENT EXISTS.
9. REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT ONE AT GAS MAINS. RESUPPORT WITH NEW PIPE SUPPORTS.
10. REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE.
11. DEMO ABANDONED MECHANICAL EQUIPMENT, CAP LINES AND INFILL ALL OPENINGS - VERIFY WITH MSCS PRIOR TO REMOVAL.
12. DEMO / CAP EXIST. ANTENNAS, SATELLITES, ELECTRICAL, DATA AND SECURITY CABLING, ETC. - VERIFY WITH MSCS PRIOR TO REMOVAL.
13. COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSCS.
14. DEMO EXISTING WALL LADDER AT OLD GYM ROOF. REPLACE WITH NEW LADDER. PATCH ALL OPEN HOLES.
15. DEMO OLD WALL EQUIPMENT BRACKETS AND ROOFTOP EQUIPMENT SUPPORTS. PATCH ALL HOLES IN MASONRY WALLS AND ROOF.
16. DEMO ALL PLYWOOD DECKING AT CAFETERIA ROOF AND PREP FOR NEW.
17. LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR.
18. DEMO EXISTING EIFS WALL SYSTEM AND PREP FOR NEW METAL WALL PANELS - REF. DETAILS.
19A. DEMO EXIST. METAL WALL PANELS AND PREP FOR NEW WALL PANELS - REF. DETAILS.
19B. DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS.
20. DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

MSCS still to review low-volt?

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

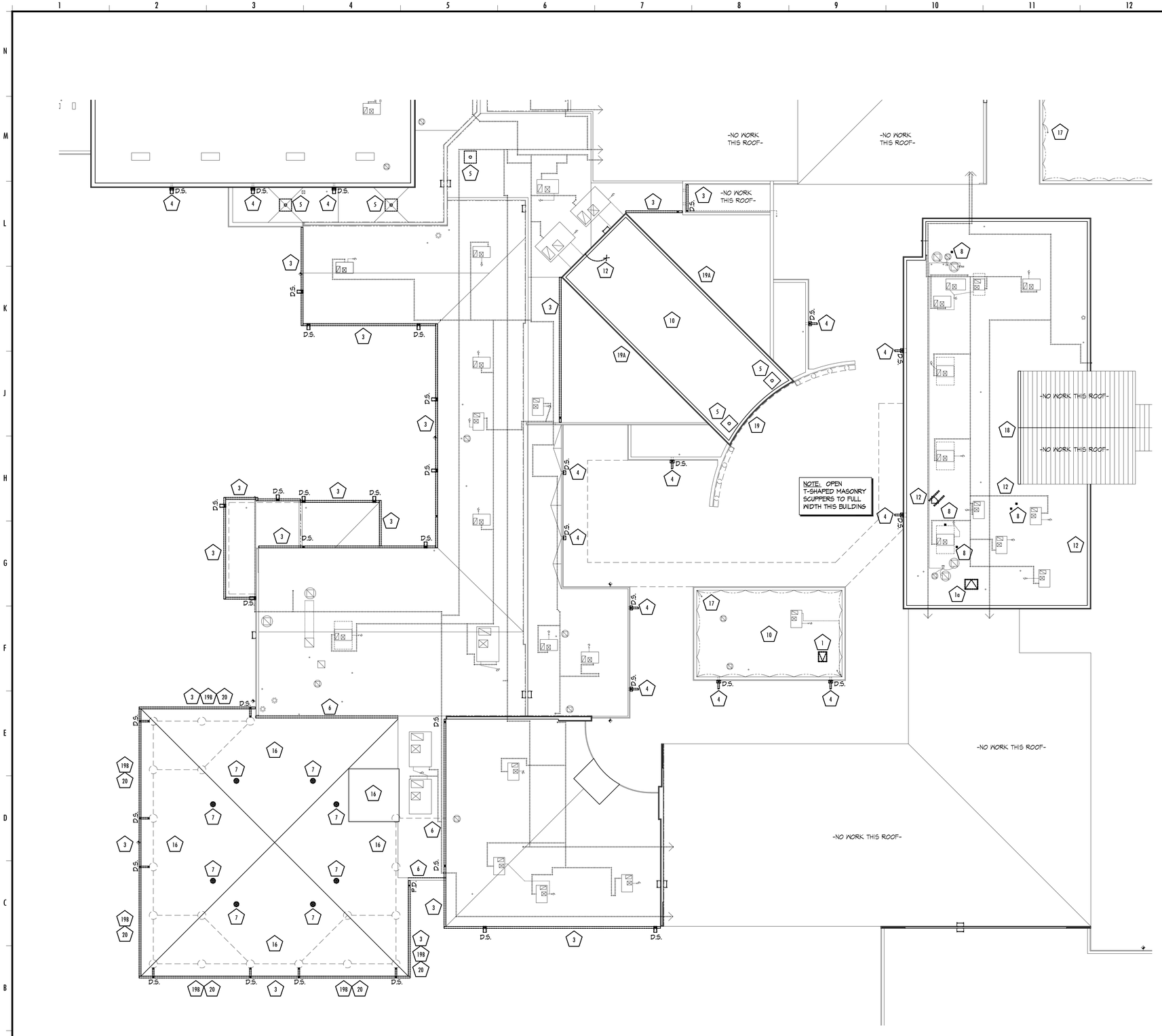
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

DEMOLITION ROOF PLAN

Project No. 22009 Date 03.28.24

A2.4



Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Demolition & Surface Prep:

GENERAL DEMOLITION NOTES

1. REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSCS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
2. REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI ES-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3 & 603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD CAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
3. REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
4. TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
5. ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
6. EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
7. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
8. REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
9. RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND CURBS TO ALLOW FOR 8" MIN. FLASHING.
10. RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
11. EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE 903.1.
12. CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
13. REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
14. CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
15. REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOW 795 SEALANT.
16. REMOVE OR CAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSCS.
17. CONTRACTOR TO WALK ROOFS WITH MSCS MP&E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR CAPPED.
18. REFER TO DRAWINGS FOR OTHER DEMO NOTES.

1. DEMO EXISTING 30x36 ROOF HATCH AND PREP FOR NEW ROOF HATCH. NOTE 1a WILL BE A 36x48 HATCH
2. DEMO EXISTING PARAPET WALL ABOVE ROOF TO COORDINATE WITH NEW INSULATION HEIGHTS EXTEND TO BUILDING CONTROL JOINT.
3. DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM.
4. DEMO EXISTING COLLECTOR HEAD AND DOWNSPOUT PREP FOR NEW COLLECTOR HEAD AND DOWNSPOUT SYSTEM.
5. DEMO EXISTING INTERIOR ROOF DRAIN OVER FLOW DRAIN WHERE APPLICABLE AND PREP FOR NEW RETRO-DRAIN.
6. DEMO OR INFILL EXISTING INTERNAL ROOF GUTTERS WITH INSULATION. REFER TO DETAILS.
7. REMOVE EXISTING ROOF TURBINE VENTS.
8. REMOVE EXISTING ABANDONED PITCH POCKETS WHERE NO EQUIPMENT EXISTS.
9. REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT ONE AT GAS MAINS. RESUPPORT WITH NEW PIPE SUPPORTS.
10. REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE.
11. DEMO ABANDONED MECHANICAL EQUIPMENT. CAP LINES AND INFILL ALL OPENINGS - VERIFY WITH MSCS PRIOR TO REMOVAL.
12. DEMO / CAP EXIST. ANTENNAS, SATELLITES, ELECTRICAL, DATA AND SECURITY CABLING, ETC. - VERIFY WITH MSCS PRIOR TO REMOVAL.
13. COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSCS.
14. DEMO EXISTING WALL LADDER AT OLD GYM ROOF. REPLACE WITH NEW LADDER. PATCH ALL OPEN HOLES.
15. DEMO OLD WALL EQUIPMENT BRACKETS AND ROOFTOP EQUIPMENT SUPPORTS. PATCH ALL HOLES IN MASONRY WALLS AND ROOF.
16. DEMO ALL PLYWOOD DECKING AT CAFETERIA ROOF AND PREP FOR NEW.
17. LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR.
18. DEMO EXISTING EIFS WALL SYSTEM AND PREP FOR NEW METAL WALL PANELS - REF. DETAILS.
19A. DEMO EXIST. METAL WALL PANELS AND PREP FOR NEW WALL PANELS - REF. DETAILS.
19B. DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS.
20. DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS.

A1 — **DEMOLITION ROOF PLAN - CENTRAL**

22009_APR-01 | 1/16" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

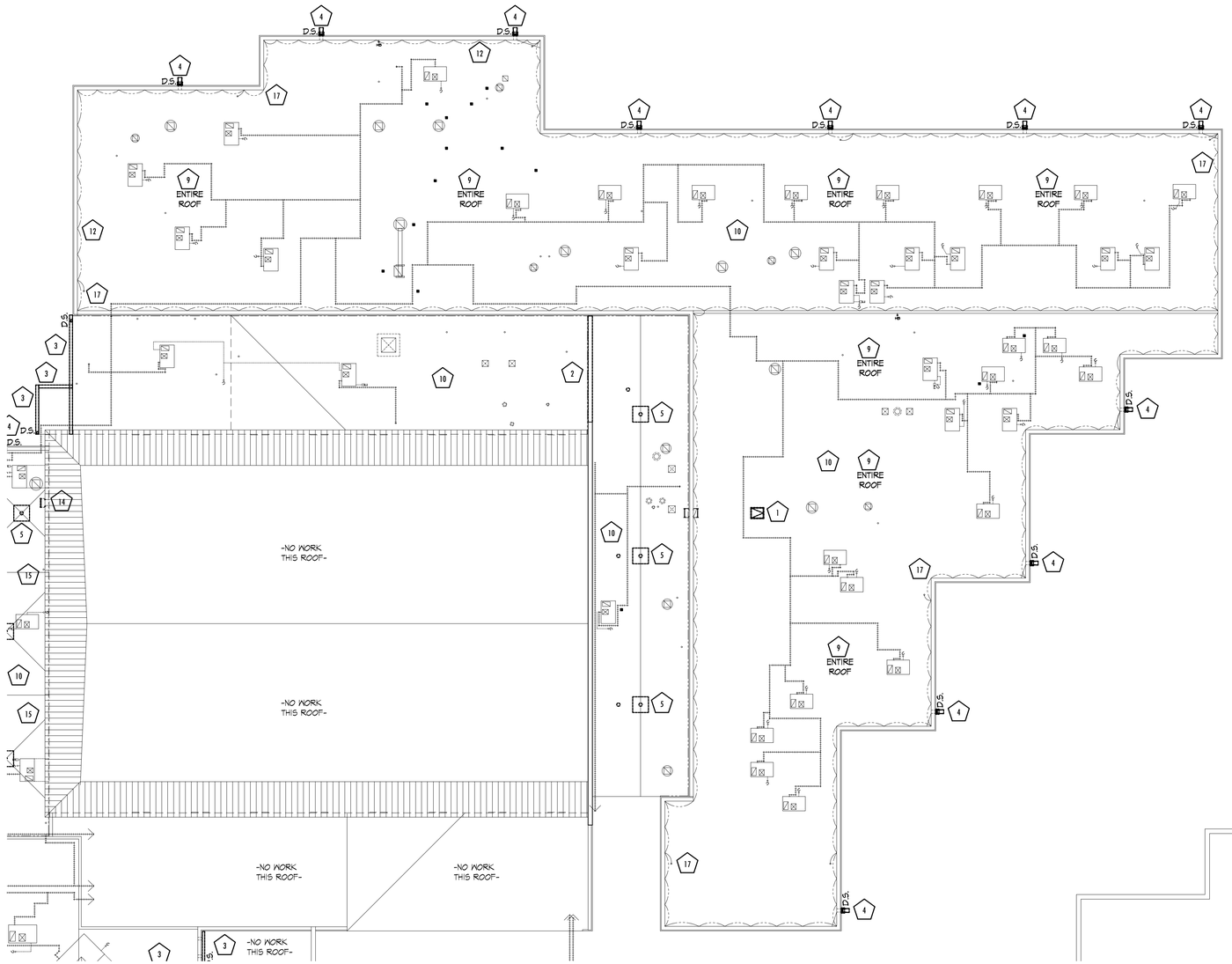
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

DEMOLITION ROOF PLAN

Project No. 22009 Date 03.28.24

A2.5



Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Demolition & Surface Prep:

GENERAL DEMOLITION NOTES

1. REMOVE ALL DEBRIS, SCRAP METAL, TRASH, AND SPONTANEOUS VEGETATION. IF ANY LOOSE OR UNCONNECTED EQUIPMENT IS FOUND, VERIFY WITH MSCS FOR DIRECTION ON RECONNECTION OR DISPOSAL.
2. REATTACH EXISTING PERIMETER 2x EDGE WOOD BLOCKING PER ANSI/SPRI ES-1. IF ROTTEN OR DETERIORATED 2x WOOD BLOCKING IS FOUND, REMOVE AND REPLACE WITH NEW FIRE-RETARDANT-TREATED 2x WOOD BLOCKING (2021 IBC - 602.3 & 603). USE APPROVED FASTENERS PER 2021 IBC - 2304.10.6.3. NO PLYWOOD CAPS ALLOWED. IF FOUND, REMOVE AND REPLACE WITH 2x AS LISTED ABOVE.
3. REMOVE ALL TERMINATION BARS, FLASHING, COUNTER FLASHING, GRAVEL GUARDS AND ANY OTHER MISC. METALS. PREP ROOF AND WALLS TO RECEIVE NEW MATERIALS PER SPECS.
4. TEAR-OFF ALL EXISTING ROOFING LAYERS COMPLETELY AND IN ITS ENTIRETY DOWN TO EXISTING DECK. INSPECT ROOF DECK AND ASSOCIATED SUBSTRATES. REMOVE AND REPLACE ALL DAMAGED DECKING PER UNIT COST PRICING. PREP FOR NEW INSULATION AND ROOFING SYSTEM PER SPECS.
5. ELIMINATE ALL EXISTING PITCH POCKETS AND REWORK ITEMS INTO APPROVED PIPE PENETRATIONS OR LINE SET ROOF BOXES - REF. DETAILS.
6. EXISTING INTERIOR ROOF DRAINS TO REMAIN WHERE LOCATED. CONTRACTOR SHALL ENSURE EXISTING DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. AFTER LINES ARE CLEARED, PREP FOR NEW RETRO DRAINS. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
7. WHERE EXISTING EQUIPMENT IS TO BE REMOVED, INSTALL NEW DECKING TO MATCH ADJACENT OVER OPENINGS.
8. REMOVE ALL EXISTING EDGE METAL, COPING, GUTTERS, COLLECTOR HEADS, DOWNSPOUTS AND PREP FOR NEW. CONTRACTOR SHALL ENSURE EXISTING BOOTS AND STORM DRAINS ARE CLEANED THOROUGHLY OF ALL DEBRIS, OPEN AND FLOWING FOR FIRST 100 FEET. HAVE LINES NUMBERED AND CAMERED TO ENSURE OPENNESS.
9. RAISE ALL EXISTING ROOF TOP EQUIPMENT, ELECTRIC BOXES AND CURBS TO ALLOW FOR 8" MIN. FLASHING.
10. RAISE ALL GAS LINES AND ELECTRICAL CONDUIT AS NEED TO ALLOW FOR NEW INSULATION HEIGHTS.
11. EXTEND ALL EXISTING "VENTS PIPES" TO 12" MIN. ABOVE ROOF AND 5 FT. MIN. ABOVE EXHAUST FANS TO MEET LOCAL CODE ORDINANCE 903.1.
12. CONTRACTOR SHALL REPAIR / REPLACE ANY AND ALL SUBSTRATES NOTED TO REMAIN IF DAMAGED DURING DEMOLITION. PROPER DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO DEMOLITION WOULD BE ADVISED.
13. REMOVE AND REPLACE ALL EXISTING CONCRETE SPLASH BLOCKS. BUILD-UP GROUNDS BENEATH WHERE APPLICABLE FOR POSITIVE DRAINAGE AWAY FROM BUILDING.
14. CLEAN AND WASH DOWN EXTERIOR WALLS AFTER EXISTING DOWNSPOUTS REMOVED.
15. REMOVE ALL MASONRY WALL EXPANSION JOINT MATERIAL ABOVE ROOF LINES. REPLACE WITH CLOSED CELL BACKER ROD AND DOW 795 SEALANT.
16. REMOVE OR CAP-OFF ALL ABANDONED WIRING, CONDUIT, JUNCTION BOXES, ETC. BELOW ROOF - REVIEW WITH MSCS.
17. CONTRACTOR TO WALK ROOFS WITH MSCS MP4E TEAM LEADS AND CAMPUS FACILITIES PERSONNEL PRIOR TO START OF WORK TO VERIFY ALL ITEMS TO BE REMOVED OR CAPPED.
18. REFER TO DRAWINGS FOR OTHER DEMO NOTES.

1. DEMO EXISTING 30x36 ROOF HATCH AND PREP FOR NEW ROOF HATCH. NOTE 1a WILL BE A 36x48 HATCH
2. DEMO EXISTING PARAPET WALL ABOVE ROOF TO COORDINATE WITH NEW INSULATION HEIGHTS EXTEND TO BUILDING CONTROL JOINT.
3. DEMO EXISTING GUTTER AND DOWNSPOUT AND PREP FOR NEW GUTTER AND DOWNSPOUT SYSTEM.
4. DEMO EXISTING COLLECTOR HEAD AND DOWNSPOUT PREP FOR NEW COLLECTOR HEAD AND DOWNSPOUT SYSTEM.
5. DEMO EXISTING INTERIOR ROOF DRAIN OVER FLOW DRAIN WHERE APPLICABLE AND PREP FOR NEW RETRO-DRAIN.
6. DEMO OR INFILL EXISTING INTERNAL ROOF GUTTERS WITH INSULATION. REFER TO DETAILS.
7. REMOVE EXISTING ROOF TURBINE VENTS.
8. REMOVE EXISTING ABANDONED PITCH POCKETS WHERE NO EQUIPMENT EXISTS.
9. REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT ONE AT GAS MAINS. RESUPPORT WITH NEW PIPE SUPPORTS.
10. REMOVE ALL ROCK BALLAST AND PAVERS FROM ROOF SURFACE.
11. DEMO ABANDONED MECHANICAL EQUIPMENT, CAP LINES AND INFILL ALL OPENINGS - VERIFY WITH MSCS PRIOR TO REMOVAL.
12. DEMO / CAP EXIST. ANTENNAS, SATELLITES, ELECTRICAL, DATA AND SECURITY CABLING, ETC. - VERIFY WITH MSCS PRIOR TO REMOVAL.
13. COORDINATE THE REMOVAL / INSTALLATION OF OLD AND NEW EXHAUST VENTS WITH THE CULINARY ARTS PROGRAM AND MSCS.
14. DEMO EXISTING WALL LADDER AT OLD GYM ROOF. REPLACE WITH NEW LADDER. PATCH ALL OPEN HOLES.
15. DEMO OLD WALL EQUIPMENT BRACKETS AND ROOFTOP EQUIPMENT SUPPORTS. PATCH ALL HOLES IN MASONRY WALLS AND ROOF.
16. DEMO ALL PLYWOOD DECKING AT CAFETERIA ROOF AND PREP FOR NEW.
17. LIGHTING ROD SYSTEM SHALL BE REMOVED AND STORED FOR REINSTALL AND RE-CERTIFICATION BY LICENSED CONTRACTOR.
18. DEMO EXISTING EIFS WALL SYSTEM AND PREP FOR NEW METAL WALL PANELS - REF. DETAILS.
19A. DEMO EXIST. METAL WALL PANELS AND PREP FOR NEW WALL PANELS - REF. DETAILS.
19B. DEMO EXIST. METAL SOFFIT PANELS AND PREP FOR NEW SOFFIT PANELS - REF. DETAILS.
20. DEMO EXISTING METAL / WOOD SOFFIT SYSTEM AND PREP FOR NEW METAL SOFFIT PANELS.

A1 — **DEMOLITION ROOF PLAN - NORTH**

22009_APR-01 | 1/16" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

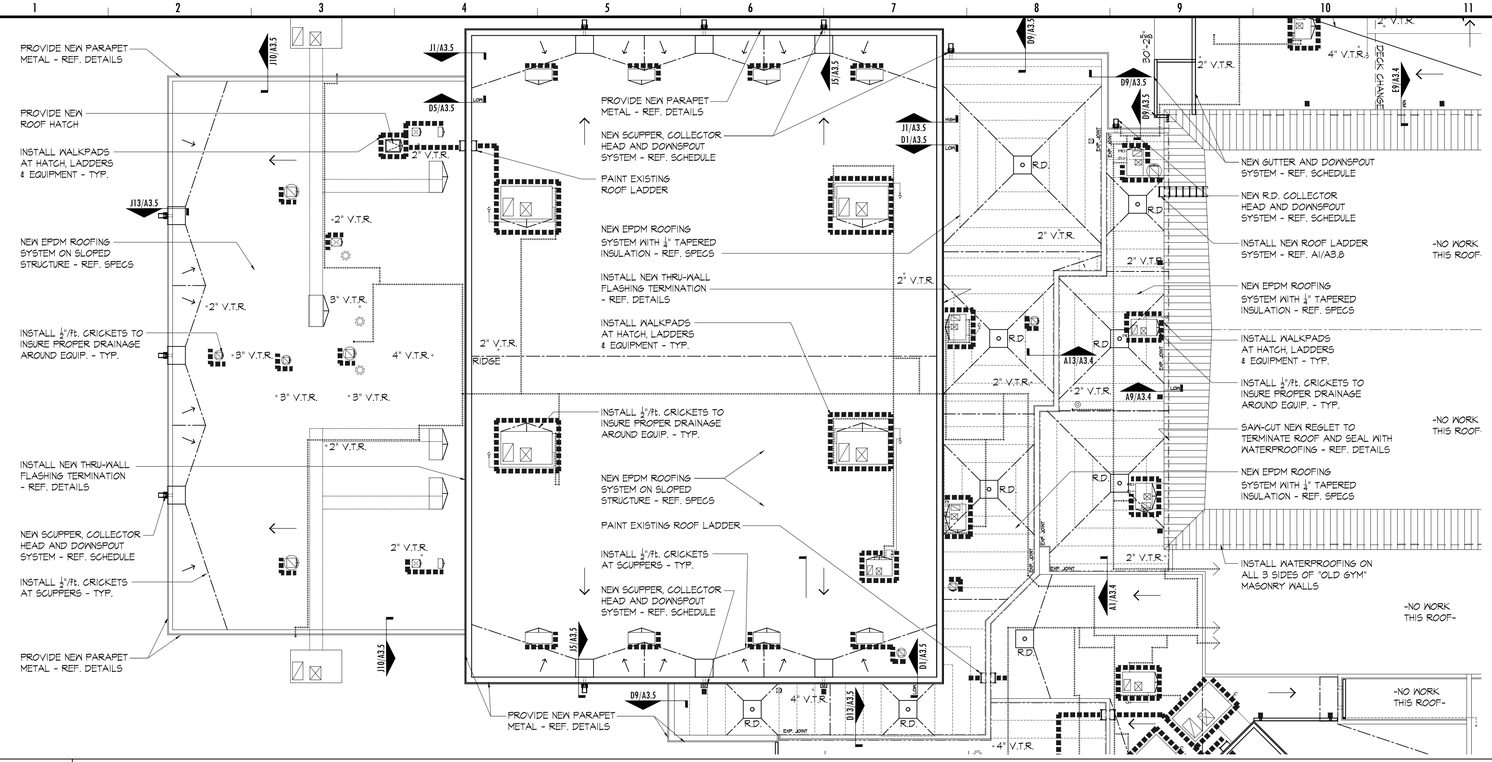
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

DEMOLITION ROOF PLAN

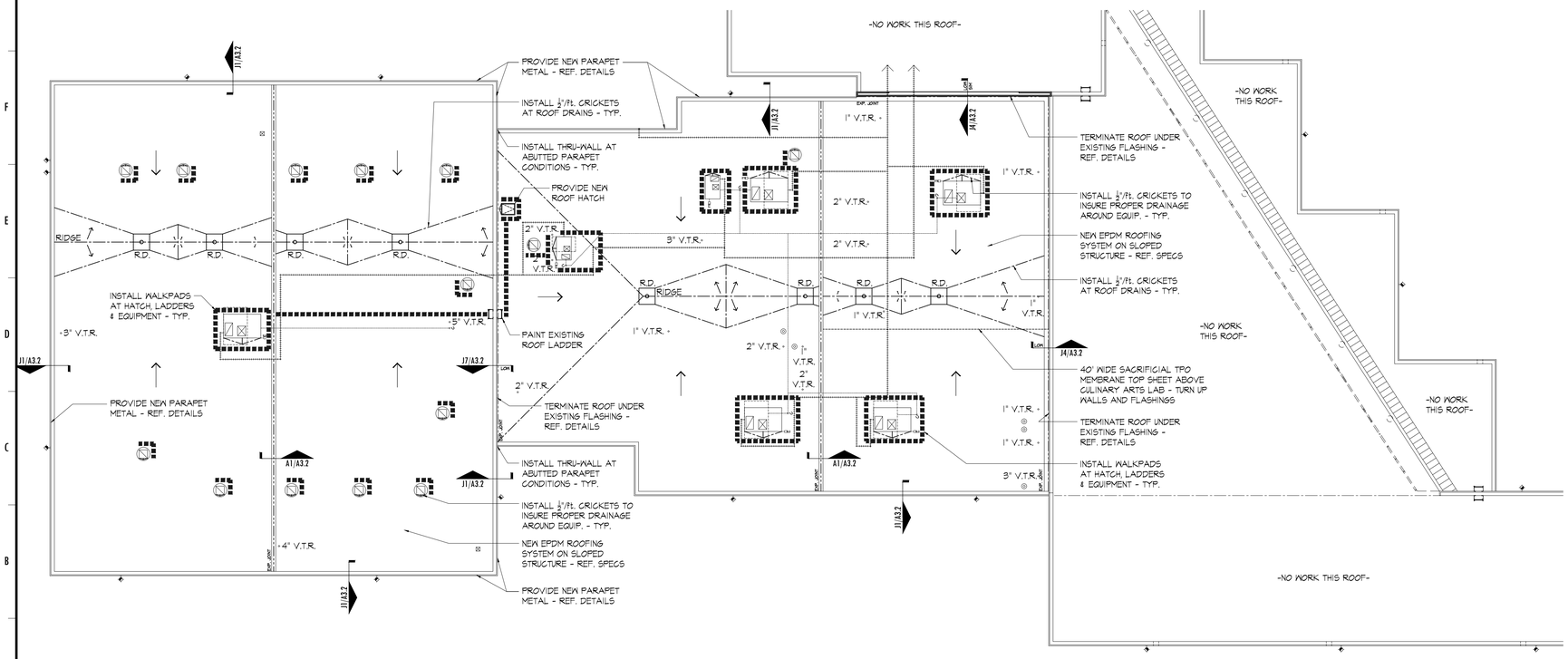
Project No. 22009 Date 03.28.24

A2.6



G1 ROOF PLAN - GYM

22009_APR-01 | 1/16" = 1'-0"



A1 ROOF PLAN - SOUTH

22006_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Scoping:

GENERAL

1. INSPECT ALL EXISTING BRICK HIGH AND PARAPET WALLS NOT COVERED BY NEW MEMBRANE AND TUCKPOINT MORTAR WHERE OLD SAWCUTS WERE LEFT EXPOSED OR EROSION HAS OCCURRED. PROVIDE WORK PER UNIT COST PRICING.
2. COORDINATE WITH MPE SUBS TO DISCONNECT ALL ROOFTOP EQUIPMENT, REROUTE AND RAISE ALL PIPING AND CONDUIT LINES TO OPERATE OVER NEW INSULATION HEIGHTS.
3. SAND, PRIME AND PAINT EXISTING CAST IRON DRAIN PIPE BOOTS. ARCHITECT TO SELECT COLOR(S).
4. ON NORTH, WEST AND SOUTH FACADE OF "OLD GYMNASIUM", COAT ENTIRE MASONRY WALL WITH PROSOCO SILOXINE WATER REPELLANT.

5A & 5B

1. REMOVE ALL ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
3. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL SACRIFICIAL TPO MEMBRANE TOP SHEET ABOVE CULINARY ARTS PROGRAM.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
7. INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDINGS EXPANSION JOINTS.
8. INSTALL NEW ROOF HATCH.
9. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
10. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
11. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
12. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

9A & 9B

1. REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO SLOPED ACOUSTICAL METAL DECK (9A) OR PRECAST CONCRETE PLANK (9B) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. FLUTE FILL INSULATION TO REMAIN IN ACOUSTICAL DECK SYSTEM (9A). FULLY CLEAN CONCRETE DECK PER MANUFACTURER TO ENSURE BONDING PROPERTIES OF NEW INSULATION (9B).
3. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED ON ACOUSTICAL METAL DECK WITH WHITE SCREWS (9A) AND FULLY ADHERED ON CONCRETE PLANK DECK (9B). BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
4. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
7. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
8. INSTALL NEW ROOF HATCH.
9. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
10. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
11. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
12. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

9C & 9D

1. REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO FLAT METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. INSTALL 1/4" TAPERED INSULATION PACKAGE. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
3. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
5. INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
7. INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDINGS EXPANSION JOINTS.
8. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
9. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
10. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
11. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
12. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

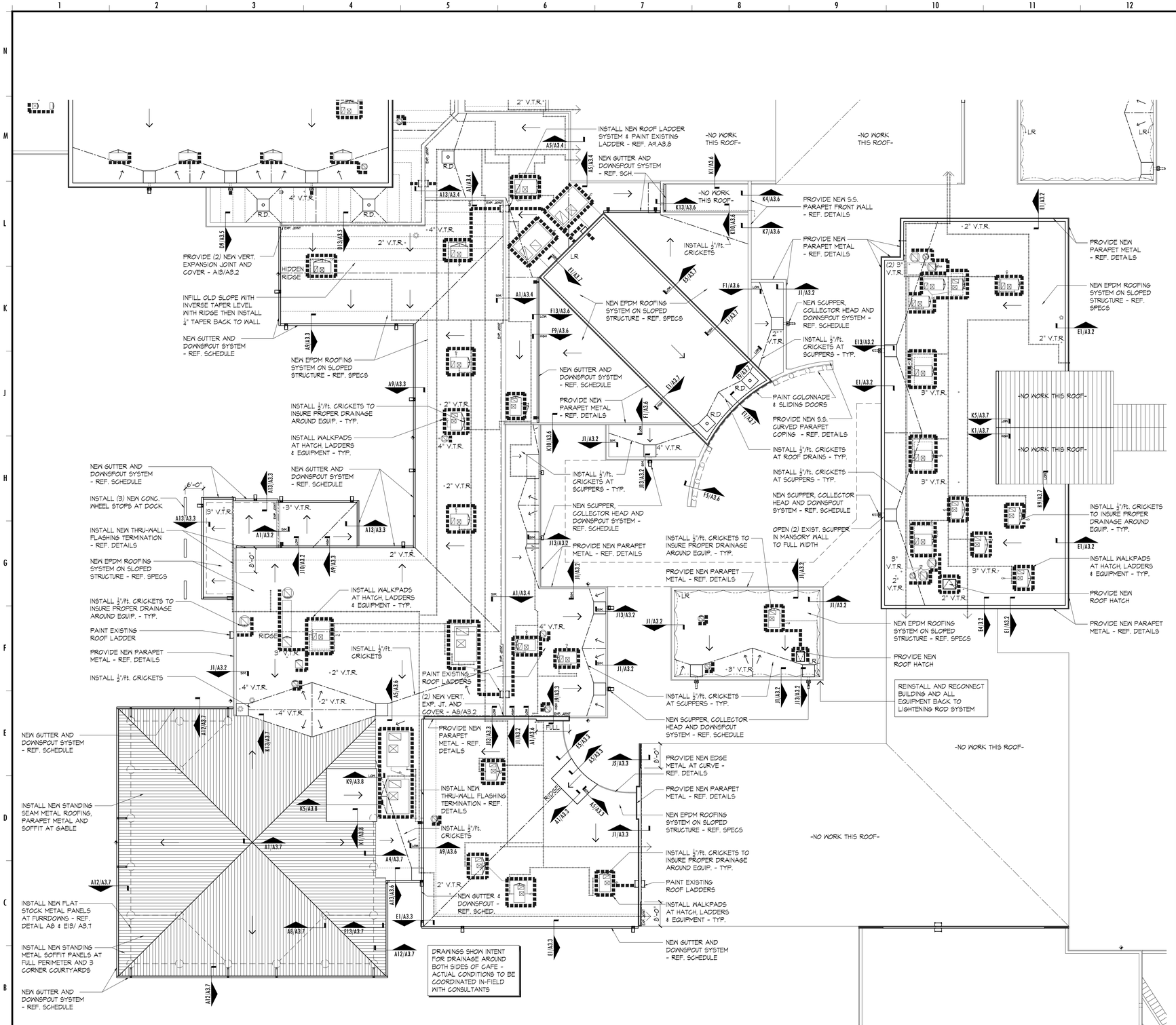
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

ROOF PLAN

Project No. 22009 Date 03.28.24

A2.7



A1 ROOF PLAN - NORTH

22006_APR-01 | 1/16" = 1'-0"

Scoping:

8D & 8E

1. REMOVE ALL ROOFING DOWN TO SLOPED COMPOSITE CONCRETE DECK (8D) OR METAL DECK (8E) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. FULLY CLEAN CONCRETE DECK PER MANUFACTURER TO ENSURE BONDING PROPERTIES OF NEW INSULATION (8D).
3. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE FULLY ADHERED ON CONCRETE DECK (8D) AND MECHANICALLY FASTENED ON METAL DECK (8E). BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
4. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
7. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
8. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
9. INSTALL NEW ROOF HATCH.
10. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
11. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
12. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
13. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

7 - CAFETERIA

1. REMOVE ALL ROOFING AND PLYWOOD DECKING DOWN TO STRUCTURE. REPLACE ALL DECKING WITH ¾" FIRE-TREATED CDX PLYWOOD. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. INSTALL ¾" FIRE-TREATED CDX PLYWOOD NAILER.
3. ROOFING SYSTEM SHALL CONSIST OF STANDING SEAM METAL ROOF, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
5. INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. SPILL TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS (SAND, PATCH & PAINT) AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
6. CLEAN ALL EXISTING METAL WALL PANELS AND SURFACES, REMOVE ALL ANIMAL NEST AND HABITATS. REMOVE EXISTING SOFFIT MATERIAL AND INSTALL NEW METAL SOFFIT PANELS AND METAL FASCIA WRAP. PROVIDE ALL TRIMS, EDGING AND ESCUTCHEONS TO MAKE AREA WATER TIGHT. REFER TO DETAILS.

8A - AUDITORIUM (TOP AND SIDE WINGS)

1. REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO TECTUM DECKING & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. MECHANICALLY FASTEN BASE SHEET WITH TUBE-LOK FASTENERS TO TECTUM DECKING.
3. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE FULLY-ADHERED. BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
4. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
7. INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
8. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
9. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
10. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
11. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.
12. REMOVE AND INSTALL NEW METAL WALL PANELS, REFER TO DETAILS. PAINT METAL COLONNADE TO MATCH METAL PANELS. SLIDING DOOR PANELS TO REMAIN - PAINT TO MATCH.

8A (LOW), 8B, 8C, 8D, 8E & 8F

1. REMOVE ALL ROOFING DOWN TO SLOPED METAL DECKS & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECH. FASTENED. BE MINDFUL THAT EXISTING CONDUIT & OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW & TO THE EXISTING METAL DECK & AVOID THESE AREAS.
3. INSTALL INVERSE TAPERED INSULATION PACKAGE TO BACKFILL NORTH SLOPE ON ROOF (8D) AND PROVIDE LEVEL START FOR NEW 1/4" TAPERED INSULATION PACKAGE TO MEET HIDDEN RIDGE. SEE AREA ON PLANS.
4. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
7. INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
8. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
9. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
10. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
11. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
12. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
13. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

10

1. REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO. (20 PSI) W/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECH. FASTENED. EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK; AVOID THESE AREAS.
3. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
5. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
6. INSTALL NEW ROOF HATCH.
7. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
8. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
9. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS.
10. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.
11. REINSTALL AND RECONNECT BUILDING AND ALL EQUIPMENT BACK TO LIGHTENING ROD SYSTEM. PROVIDE ALL MISSING COMPONENTS AND MODIFICATION NECESSARY TO COMPLETE THE INSTALLATION. RE-CERTIFICATION IS REQUIRED BY LICENSENED CONTRACTOR.

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

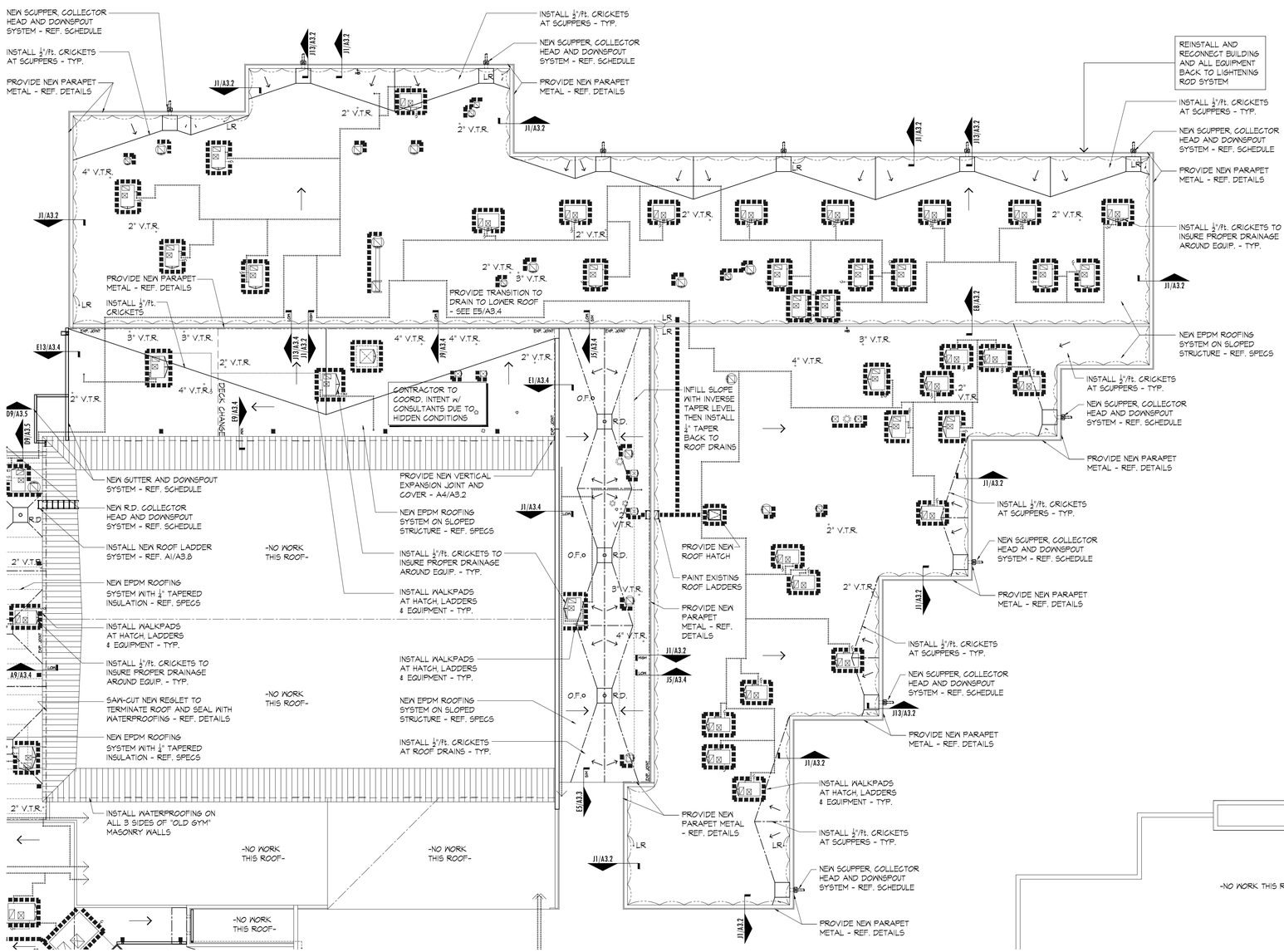
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

ROOF PLAN

Project No. 22009 Date 03.28.24

A2.8



A1 ROOF PLAN - NORTH

22006_APR-01 | 1/16" = 1'-0"

Legend:

- ROOF DRAIN (R.D.)
- OVERFLOW DRAIN (O.F.)
- ROOF EQUIPMENT CURB (w/ CRICKET)
- ROOF EXHAUST FAN
- PITCH POCKET (P.P.)
- ROOF PIPE PENETRATION (V.T.R.)
- HEAT VENT (FLUE)
- ELECTRIC BOX AND CONDUIT DROP
- ACCESS LADDER
- ROOF HATCH
- LIGHTING ROD SYSTEM (LR)
- ANTENNA
- FIRE ALARM BELL
- EXTERIOR LIGHTING
- SECURITY CAMERA
- SATELLITE
- WALKWAY PADS
- CONDUIT
- PIPING
- ROOF EXPANSION JOINT
- TAPERED INSULATION RIDGE / VALLEY
- TAPERED INSULATION LEVELS
- EXISTING STORM DRAIN LINE - APPROX.
- NEW STORM DRAIN LINE - ASSUMED
- EXISTING STORM DRAIN CATCH BASIN
- THRU-WALL OVERFLOW (O.F.)
- DOWNSPOUT (COLLECTION BOX) (D.S.)
- DOWNSPOUT (GUTTER) (D.S.)
- SPLASH BLOCK (S.B.)
- DRAIN BOOT AND PIPE (S.D.)
- PVC PIPE DRAIN (P.D.)
- HOSE BIB
- ROOF CORE SAMPLE
- TURBINE VENT

Scoping:

4A & 4D

1. REMOVE ALL BALLAST ROCK AND ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO, (20 PSI) w/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
3. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
5. INSTALL NEW INSULATION SUMP AREA AND NEW THRU-WALL SCUPPER, COLLECTOR HEAD AND DOWNSPOUT SYSTEM AS SHOWN ON PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
6. INSTALL NEW ROOF HATCH.
7. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
8. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
9. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL. PAINT ALL CAST IRON DRAIN PIPE BOOTS
10. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.
11. REINSTALL AND RECONNECT BUILDING AND ALL EQUIPMENT BACK TO LIGHTENING ROD SYSTEM. PROVIDE ALL MISSING COMPONENTS AND MODIFICATION NECESSARY TO COMPLETE THE INSTALLATION. RE-CERTIFICATION IS REQUIRED BY LICENSENED CONTRACTOR.

4B

1. REMOVE ALL ROOFING DOWN TO SLOPED WOOD DECK (high) AND METAL DECK (low) & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO, (20 PSI) w/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
3. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
4. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
5. INSTALL NEW CONT. GUTTERS UP TO 30 FT. MAX. AND DOWNSPOUTS AS SHOWN ON DRAINAGE PLANS. NOTE: D.S. EITHER SPILL TO ROOF WITH SPLASH PADS, TO GRADE WITH SPLASH BLOCKS, TO CONCRETE WALKS OR CONNECT TO BOOTS AND UNDERGROUND STORM DRAIN COLLECTIONS. REFER TO PLANS AND DETAILS FOR EACH TYPE AND LOCATION.
6. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
7. INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDING EXPANSION JOINTS.
8. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
9. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
10. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL.
11. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.
12. *ALTERNATE #1* - REMOVE AND REPLACE ALL GYM STEEL WINDOWS WITH NEW ALUMINUM WINDOW SYSTEM - REF. TO DETAILS.

4C

1. REMOVE ALL ROOFING DOWN TO SLOPED METAL DECK & INSPECT EXISTING DECKING PRIOR TO NEW WORK. REFER TO DEMOLITION PLAN FOR SPECIFIC NOTES.
2. INSTALL BASE INSULATION OF (2) LAYERS (2.6" MAX. ON ANY LAYER) OF R-30 POLYISO, (20 PSI) w/ STAGGERED AT 12" IN ALL DIRECTIONS AND LAYERS, ENTIRE SYSTEM SHALL BE MECHANICALLY FASTENED. BE MINDFUL THAT EXISTING CONDUIT AND OTHER EQUIPMENT MAYBE MOUNTED DIRECTLY BELOW AND TO THE EXISTING METAL DECK AND AVOID THESE AREAS.
3. INSTALL INVERSE TAPERED INSULATION PACKAGE TO BACKFILL EAST SLOPE ON ROOF AND PROVIDE LEVEL START FOR NEW 1/4" TAPERED INSULATION PACKAGE TO MEET ROOF DRAIN VALLEY. SEE AREA ON PLANS.
4. ROOFING SYSTEM SHALL CONSIST OF 60 MIL, FULLY-ADHERED NON-REINFORCED, BLACK EPDM, WITH A 20-YEAR WARRANTY. REFER TO SPECS FOR ALLOWABLE SYSTEMS.
5. INSTALL NEW METAL EDGE SYSTEM TO THE PERIMETER PER ASTM/SPRI ES-1 STANDARDS AS DETAILED. SYSTEM TO ALLOW FOR EXPANSION AND MOVEMENT AS REQ. BY MANUFACTURER, CODES AND INDUSTRY STANDARDS.
6. INSTALL NEW INSULATION SUMP AREA AND NEW RETRO DRAINS AT EXISTING ROOF DRAINS.
7. RAISE HIGH WALL TERMINATIONS WHERE NEEDED DUE TO INCREASED INSULATION HEIGHTS AND 8" MIN. FLASHING REQUIREMENTS. ADJUST THRU-WALL FLASHING WITH MASONRY CONTRACTOR.
8. INSTALL NEW EXPANSION JOINT DETAILS AT ALL BUILDING EXPANSION JOINTS.
9. RAISE ALL NON-COMPLAINT CURBS TO ALLOW FOR 8" MIN. FLASHING. RAISE ALL OPEN VENT PIPES TO 12" MIN. TO MEET LOCAL CODE REQUIREMENTS.
10. INSTALL CRICKETS AT EQUIPMENT CURBS, DRAIN SUMPS AND LOW AREAS TO ENSURE PROPER DRAINAGE.
11. PAINT ALL NEW AND EXISTING PIPING "SAFETY YELLOW" TO PROVIDE WARNING FOR TRIP HAZARDS. PAINT EXISTING WALL LADDERS TO MATCH "KYNAR MEDIUM BRONZE" EDGE METAL.
12. INSTALL NEW PIPE SUPPORTS PER SPECS. INSTALL WALKPADS AS SHOWN ON DRAWINGS FOR EQUIPMENT ACCESS, ROOF TOP EQUIPMENT PROTECTION AND ROOF DRAIN PROTECTION.

bd GROUP

braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

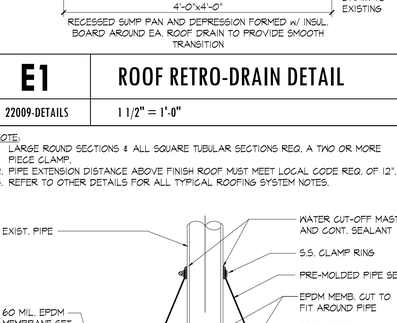
ROOF PLAN

Project No. 22009 Date 03.28.24

A2.9

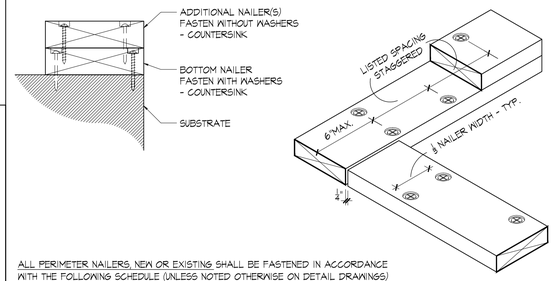
ROOF DETAIL GENERAL NOTE:
1. CAMPUS WAS NOT ABLE TO PROVIDE DRAWINGS SHOWING EXISTING CONDITIONS FOR STRUCTURE AND WALL CONSTRUCTION. A BEST EFFORT WAS MADE TO DRAW THESE HIDDEN CONDITIONS. DETAILS SHOW INTENT. ACTUAL CONDITIONS WILL BE WORKED OUT IN THE FIELD TO OBTAIN A WARRANTY FROM ROOFING MANUFACTURER.
2. DETAILS SHOW TYPICAL ROOFING SYSTEMS INSTALLATION, REFER TO ROOF SPECIFIC DEMOLITION AND SCOPING NOTES FOR CHANGES DUE TO DECKING TYPE, FASTENING REQUIREMENTS, BASE SHEETS, INSULATION TYPE, ETC.
3. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
4. PARAPET WIDTHS AND HEIGHTS VARY AT EACH LOCATION - FIELD VERIFY EACH CONDITION.
5. REFER TO EDGE DETAILS FOR EACH BLDG. FOR TYPICAL ROOFING SYSTEM NOTES, AS DECKING TYPE, INSULATION THICKNESS AND LAYERS WILL VARY PER BUILDING.

NOTE:
1. LARGE ROUND SECTIONS & ALL SQUARE TUBULAR SECTIONS REQ. A TWO OR MORE PIECE CLAMP.
2. REFER TO SCOPING NOTES FOR EACH BLDG. FOR TYPICAL ROOFING SYSTEM NOTES, AS DECKING TYPE, INSULATION THICKNESS AND LAYERS WILL VARY PER BUILDING.



J1 TYPICAL VERTICAL FLASHING TERMINATION

22009-DETAILS | N.T.S.



ALL PERIMETER NAILERS, NEW OR EXISTING SHALL BE FASTENED IN ACCORDANCE WITH THE FOLLOWING SCHEDULE (UNLESS NOTED OTHERWISE ON DETAIL DRAWINGS)

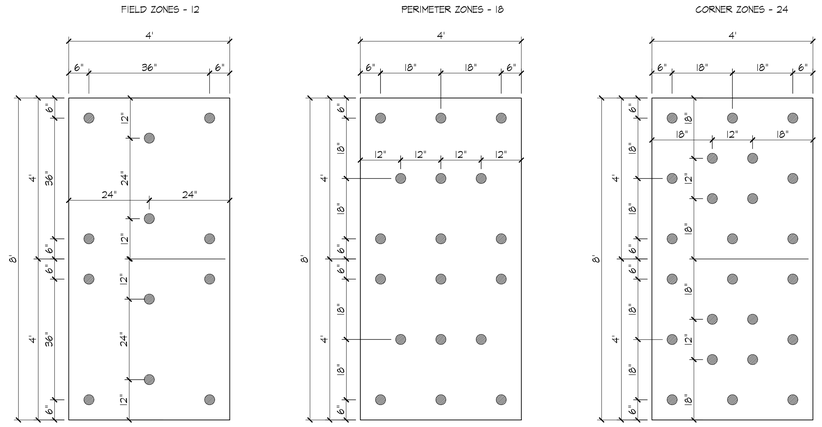
ATTACHMENT SUBSTRATE	PERIMETER FASTENER SPACING (MAXIMUM)	CORNER FASTENER SPACING (MAXIMUM)
STRUCTURAL CONCRETE	12" O.C.	6" O.C.
CMU / BRICK (FASTENER INTO SOLID MATERIAL)	12" O.C.	6" O.C.
STEEL DECK	12" O.C.	6" O.C.
WOOD	12" O.C.	6" O.C.

NOTE:
1. FASTENERS IN 6" OR WIDER (NOM.) LUMBER SHALL BE INSTALLED IN TWO (2) ROWS, STAGGERED 1/3 OF NAILER WIDTH.
2. TWO (2) FASTENERS SHALL BE INSTALLED WITHIN 6" OF EACH NAILER END.
3. CORNER FASTENER SPACING SHALL EXTEND 8' FROM ALL OUTSIDE BUILDING CORNERS.
4. WHERE TWO OR MORE NAILERS ARE INSTALLED, EACH NAILER SHALL BE FASTENED INDEPENDENTLY.
5. OVER ALL DECK TYPES, THE BOTTOM NAILER SHALL BE FASTENED USING THE SPECIFIED FASTENERS AND 5/8" DIAMETER WASHERS. COUNTERSINK WASHERS AND FASTENERS LEVEL WITH TOP OF WOOD USING SPADE BIT OR SIMILAR METHOD. FASTEN SUBSEQUENT NAILERS, WHERE SPECIFIED, USING THE SPECIFIED SCREWS WITHOUT WASHERS.
6. FASTENER TYPES ARE DETERMINED BY SUBSTRATE MATERIALS AND SECTION 06 10 00.
7. NAILERS SHALL BE INSTALLED WITH 1/4" GAP BETWEEN ENDS OF ADJOINING PIECES.
8. FASTENERS, INCLUDING NUTS AND WASHERS, FOR FIRE-RETARDANT-TREATED WOOD USED IN EXTERIOR APPLICATIONS OR WET/DAMP LOCATIONS SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. FASTENERS OTHER THAN NAILS, TIMBER RIVETS, WOOD AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS PER ASTM B 695, CLASS 55 MIN.
9. REFER TO SECTION 06 10 00 FOR ADDITIONAL REQUIREMENTS.

J6 NAILER ATTACHEDMENT SCHEDULE

22009-DETAILS | N.T.S.

NOTE:
1. BOTTOM LAYER OF INSULATION SHALL BE LAID DOWN IN A STAGGERED PROFILE. STAGGER & OFFSET TOP LAYER OF INSULATION FROM BOTTOM LAYER TO PREVENT ALIGNED EDGES.
2. REFER TO SPECIFICATIONS FOR SUBMITTING MANUFACTURES ASSEMBLY LETTERS FOR REVIEW OF APPROPRIATE BEAD SPACING BASED UPON THE BUILDING HEIGHT, NARRANTY TERM AND ACCEPTABLE SUBSTRATE.

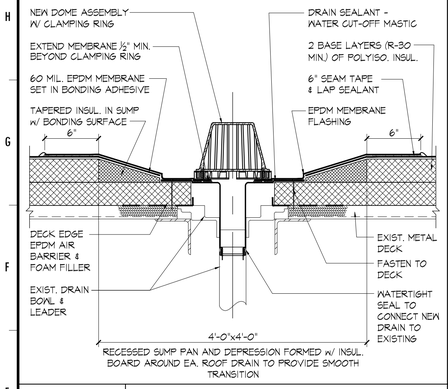


MECHANICALLY ATTACHED PATTERNS

J10 INSULATION ATTACHMENT PATTERN

22009-DETAILS | 1 1/2"=1'-0"

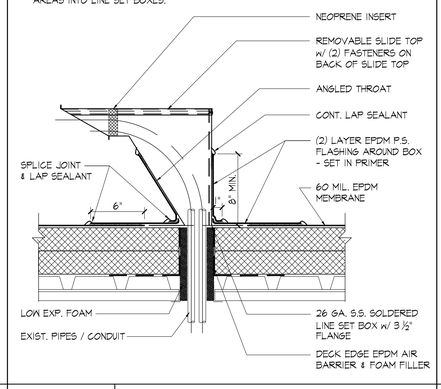
NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. VERIFY EXIST. DRAIN SIZE AND ENSURE NEW DRAIN WILL ALLOW FOR ADEQ. CAPACITY.



E1 ROOF RETRO-DRAIN DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

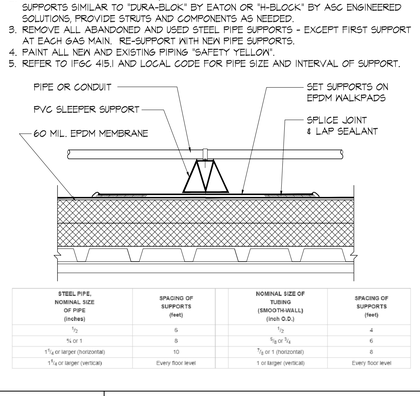
NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. REMOVE ALL EXISTING PITCH POCKETS AND RESET ALL MULTI-LINE AREAS INTO LINE SET BOXES.



E4 LINE SET BOX

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. REPLACE ALL EXISTING WOOD, PVC AND SHEET METAL SUPPORTS WITH NEW RUBBER SUPPORTS SIMILAR TO 'DURA-BLOK' BY EATON OR 'H-BLOCK' BY ASG ENGINEERED SOLUTIONS, PROVIDE STRUTS AND COMPONENTS AS NEEDED.
3. REMOVE ALL ABANDONED AND USED STEEL PIPE SUPPORTS - EXCEPT FIRST SUPPORT AT EACH GAS MAIN. RE-SUPPORT WITH NEW PIPE SUPPORTS.
4. PAINT ALL NEW AND EXISTING PIPING 'SAFETY YELLOW'.
5. REFER TO IFGC 415.1 AND LOCAL CODE FOR PIPE SIZE AND INTERVAL OF SUPPORT.

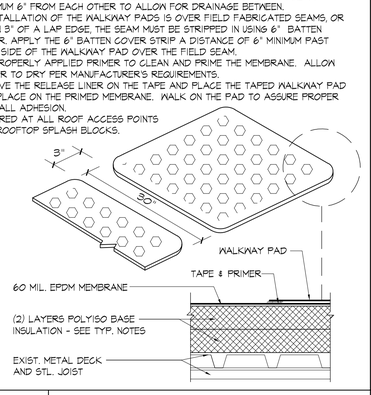


STEEL PIPE, NOMINAL SIZE OF PIPE (inches)	SPACING OF SUPPORTS (feet)	NOMINAL SIZE OF TUBING (SMOOTH-WALL) (inch O.D.)	SPACING OF SUPPORTS (feet)
1/2	6	1/2	4
3/4 or 1	8	3/4 or 1	6
1 1/4 or larger (horizontal)	10	1 or larger (horizontal)	8
1 1/4 or larger (vertical)	Every floor level	1 or larger (vertical)	Every floor level

E7 PIPE SUPPORT DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

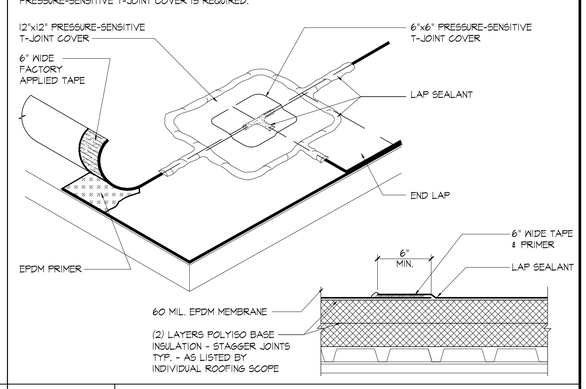
NOTE:
1. POSITION THE WALKWAY PADS SO THAT THE FLAT SURFACE IS OVER THE COMPLETED EPDM MEMBRANE. SPACING EACH PAD A MINIMUM OF 1" AND A MAXIMUM 6" FROM EACH OTHER TO ALLOW FOR DRAINAGE BETWEEN.
2. IF INSTALLATION OF THE WALKWAY PADS IS OVER FIELD FABRICATED SEAMS, OR WITHIN 3" OF A LAP EDGE, THE SEAM MUST BE STRIPPED IN USING 6" BATTEN COVER. APPLY THE 6" BATTEN COVER STRIP A DISTANCE OF 6" MINIMUM PAST EACH SIDE OF THE WALKWAY PAD OVER THE FIELD SEAM.
3. USE PROPERLY APPLIED PRIMER TO CLEAN AND PRIME THE MEMBRANE. ALLOW PRIMER TO DRY PER MANUFACTURER'S REQUIREMENTS.
4. REMOVE THE RELEASE LINER ON THE TAPE AND PLACE THE TAPED WALKWAY PAD INTO PLACE ON THE PRIMED MEMBRANE. WALK ON THE PAD TO ASSURE PROPER OVERALL ADHESION.
5. REQUIRED AT ALL ROOF ACCESS POINTS AND ROOFTOP SPLASH BLOCKS.



E10 PADS AND WALKWAY DETAILS

22009-DETAILS | 1 1/2" = 1'-0"

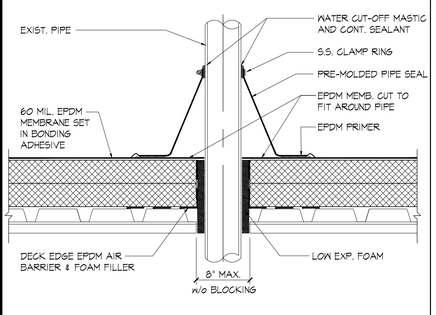
NOTE:
APPLY EPDM LAP SEALANT ALONG THE LEADING EDGE OF THE MEMBRANE SPLICE COVERING 1/2" IN ALL DIRECTIONS FROM THE SPLICE INTERSECTION AND OVERLAY WITH A 6"x6" T-JOINT COVER. A SECOND LAYER OF 12"x12" PRESSURE-SENSITIVE T-JOINT COVER IS REQUIRED.



E13 TYPICAL COVERS @ MEMBRANE T-LAPS

22009-DETAILS | 1 1/2" = 1'-0"

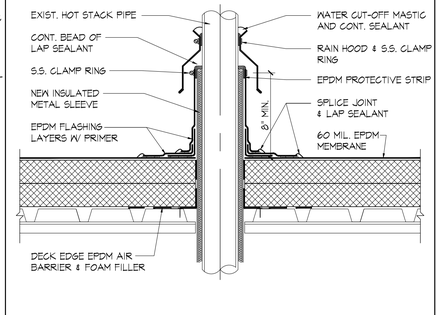
NOTE:
1. LARGE ROUND SECTIONS & ALL SQUARE TUBULAR SECTIONS REQ. A TWO OR MORE PIECE CLAMP.
2. PIPE EXTENSION DISTANCE ABOVE FINISH ROOF MUST MEET LOCAL CODE REQ. OF 12".
3. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.



A1 VENT PIPE FLASHING DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

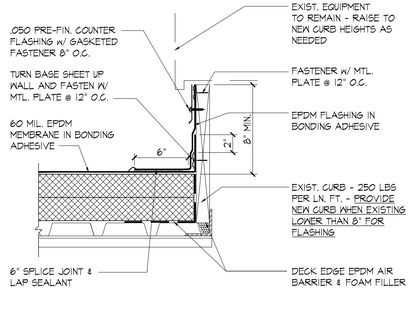
NOTE:
1. LARGE ROUND SECTIONS & ALL SQUARE TUBULAR SECTIONS REQ. A TWO OR MORE PIECE CLAMP.
2. PIPE EXTENSION DISTANCE ABOVE FINISH ROOF MUST MEET LOCAL CODE REQ. OF 12".
3. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.



A4 FLUE DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

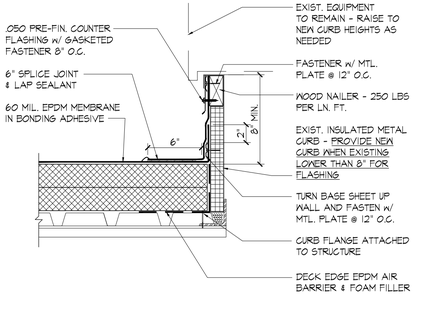
NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. RAISE ALL CURBS TO 8" MIN. ABOVE FINISHED ROOF PER CODE AND WARRANTY.



A7 WOOD CURB DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

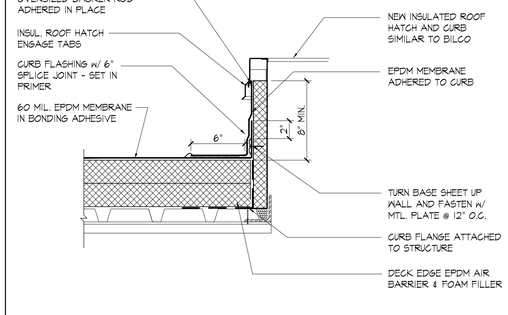
NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. RAISE ALL CURBS TO 8" MIN. ABOVE FINISHED ROOF PER CODE AND WARRANTY.



A10 INSULATED CURB DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO OTHER DETAILS FOR ALL TYPICAL ROOFING SYSTEM NOTES.
2. RAISE ALL CURBS TO 8" MIN. ABOVE FINISHED ROOF PER CODE AND WARRANTY.



A13 ROOF HATCH CURB

22009-DETAILS | 1 1/2" = 1'-0"

braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

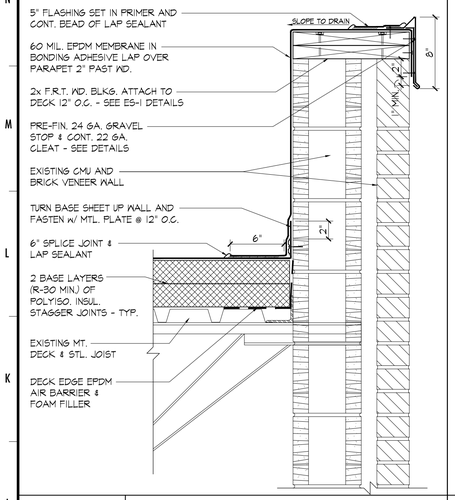
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

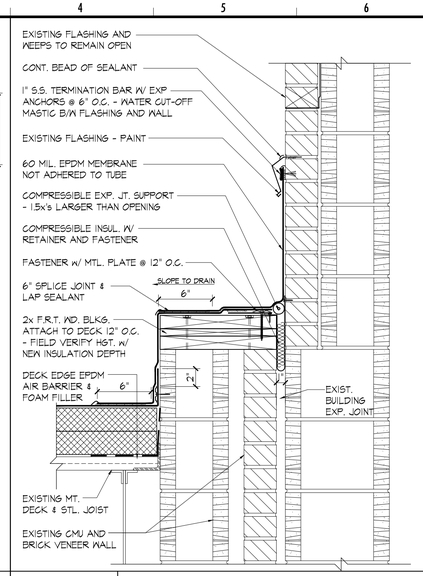
A3.1

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



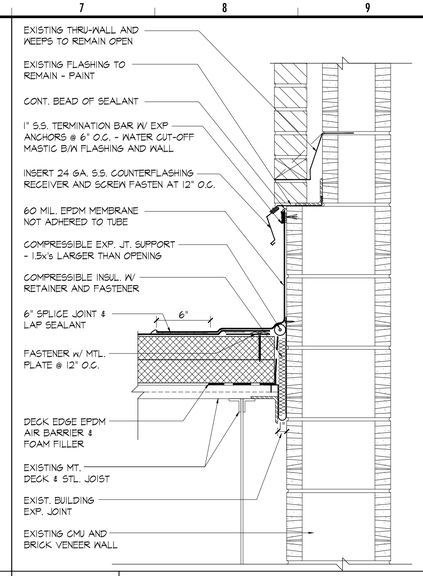
J1 PARAPET DETAIL

22009-DETAILS | 1 1/2" = 1'-0"



J4 5A WALL @ EXP. JOINT

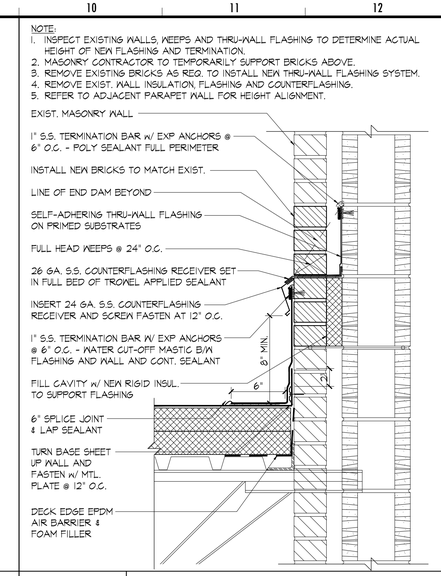
22009-DETAILS | 1 1/2" = 1'-0"



J7 5A WALL @ EXP. JOINT

22009-DETAILS | 1 1/2" = 1'-0"

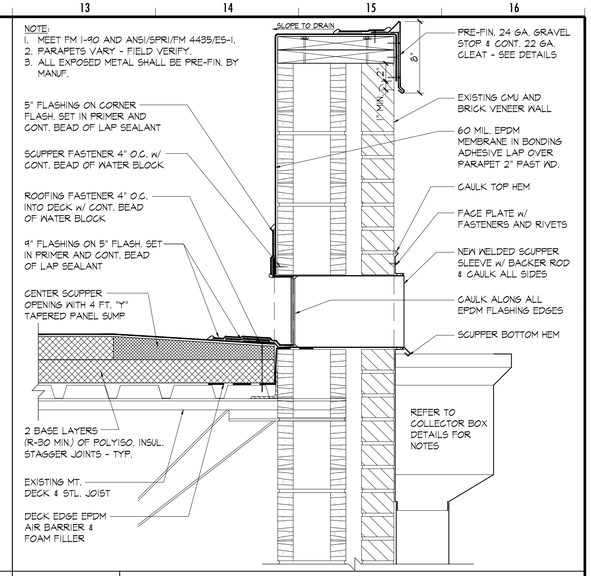
NOTE:
1. INSPECT EXISTING WALLS, WEEPS AND THRU-WALL FLASHING TO DETERMINE ACTUAL HEIGHT OF NEW FLASHING AND TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSULATION, FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



J10 THRU-WALL DETAIL

22009-DETAILS | 1 1/2" = 1'-0"

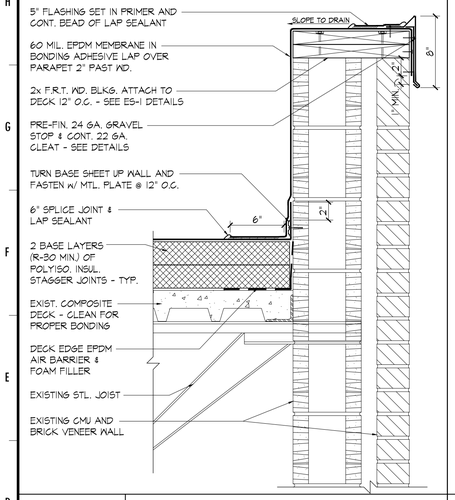
NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. ALL EXPOSED METAL SHALL BE PRE-FIN. BY MANUF.



J13 PARAPET @ SCUPPER

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.

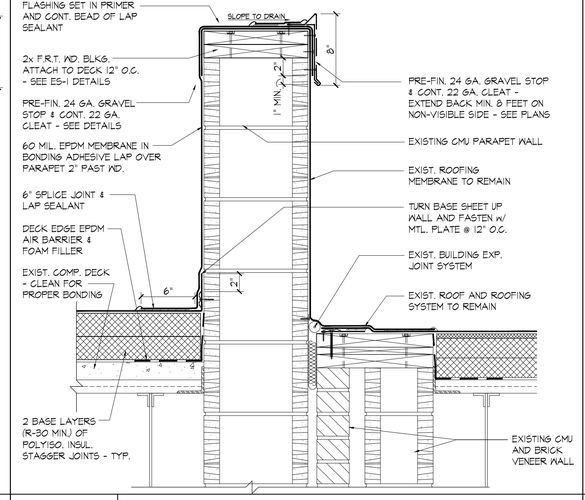


E1 PARAPET DETAIL @ COMP DECK

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. INSTALL EPDM WASHERS WHERE EXPOSED

(CONT):
FASTENERS ARE REQ., ENCAP. IN CAULK.
4. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 5" PAST EACH ANGLE CHANGE.



E4 3D PARAPET @ EXISTING EXP. JOINT

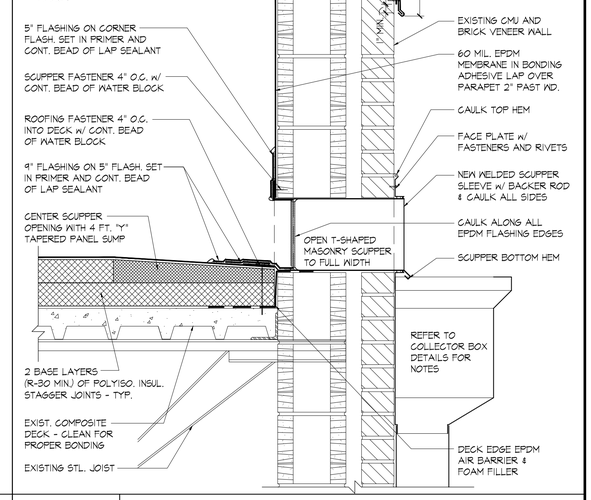
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.

E8 ROOF 4 SUPPORT WALL PARAPET

22009-DETAILS | 1 1/2" = 1'-0"

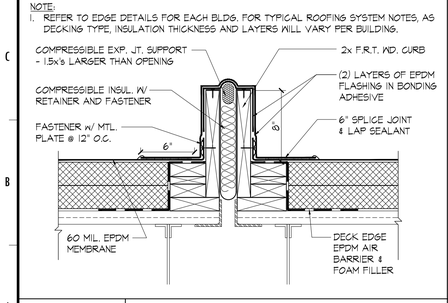
NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. ALL EXPOSED METAL SHALL BE PRE-FIN. BY MANUF.



E13 PARAPET @ SCUPPER

22009-DETAILS | 1 1/2" = 1'-0"

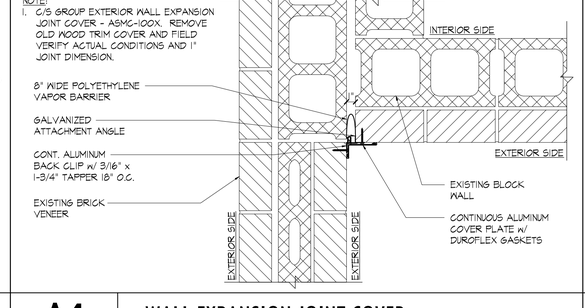
NOTE:
1. REFER TO EDGE DETAILS FOR EACH BLDG. FOR TYPICAL ROOFING SYSTEM NOTES, AS DECKING TYPE, INSULATION THICKNESS AND LAYERS WILL VARY PER BUILDING.



A1 ROOF EXPANSION JOINT

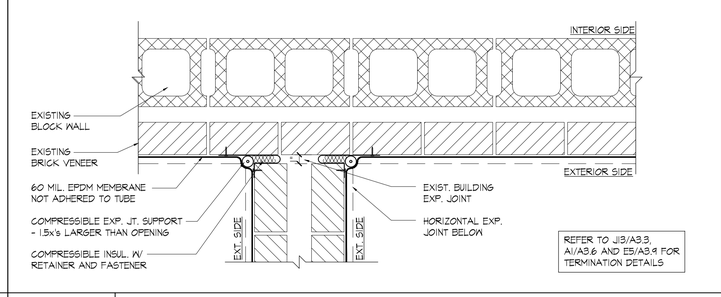
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. C/S GROUP EXTERIOR WALL EXPANSION JOINT COVER - ASMC-100X. REMOVE OLD WOOD TRIM COVER AND FIELD VERIFY ACTUAL CONDITIONS AND 1" JOINT DIMENSION.



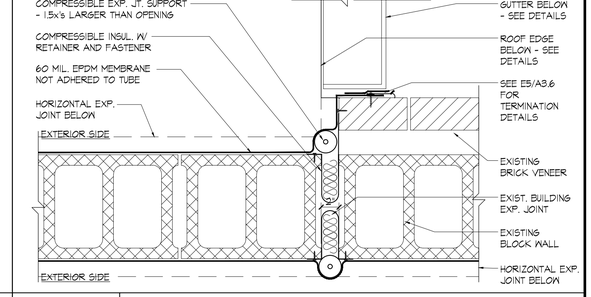
A4 WALL EXPANSION JOINT COVER

22009-DETAILS | 1 1/2" = 1'-0"



A8 VERTICAL EXPANSION JOINT

22009-DETAILS | 1 1/2" = 1'-0"



A13 VERTICAL EXPANSION JOINT @ 4-HR FIREWALL

22009-DETAILS | 1 1/2" = 1'-0"

braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

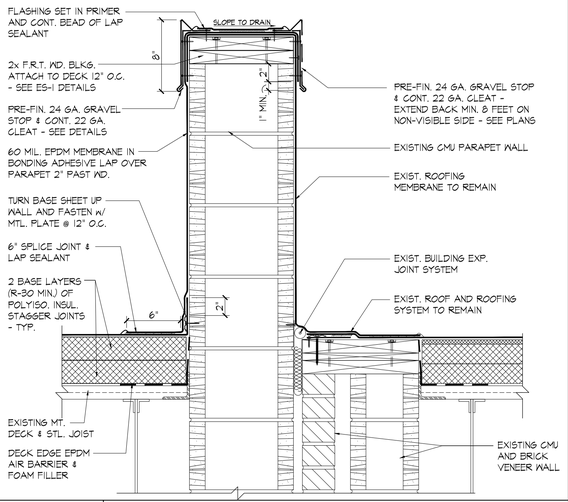
ROOF DETAILS

Project No. 22009 Date 03.28.24

A3.2

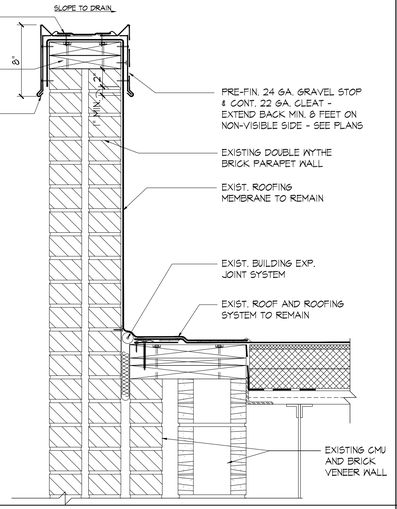
NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. INSTALL EPDM WASHERS WHERE EXPOSED

(CONT):
FASTENERS ARE REQ., ENCAP. IN CAULK.
4. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.



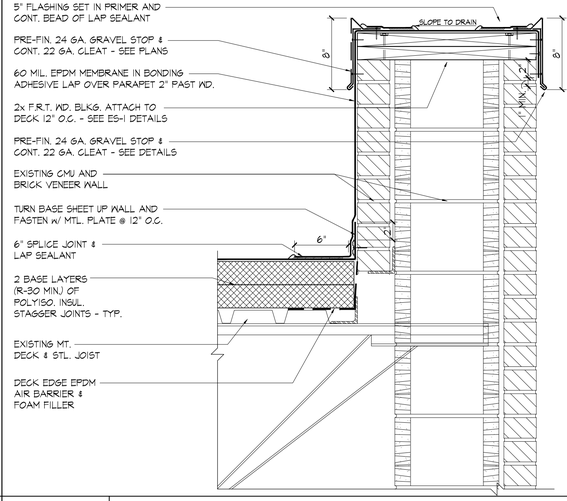
J1	3E PARAPET @ EXISTING EXP. JOINT - 4-HR
22009-DETAILS	1 1/2" = 1'-0"

(CONT):
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



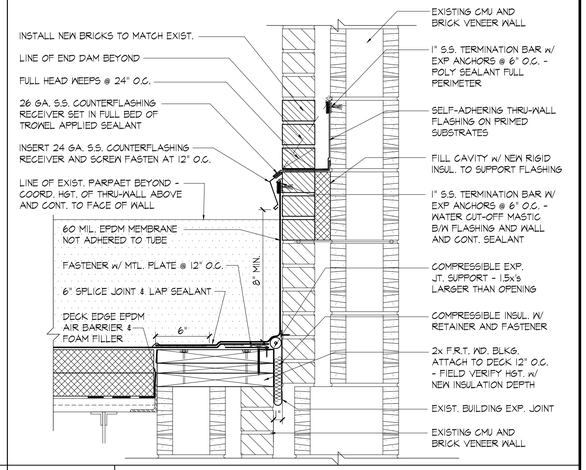
J5	3E PARAPET @ EXISTING EXP. JOINT
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



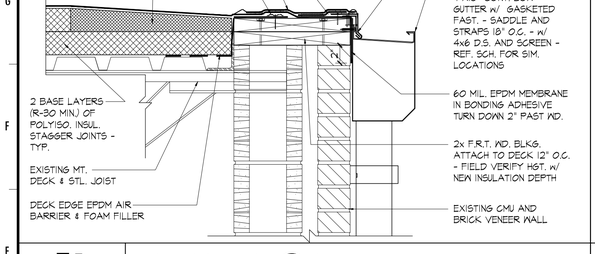
J9	3E PARAPET @ EXISTING 4-HR FIREWALL
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. INSPECT EXISTING WALLS, WEEPS AND THRU-WALL FLASHING TO DETERMINE ACTUAL HEIGHT OF NEW FLASHING AND TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSULATION, FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



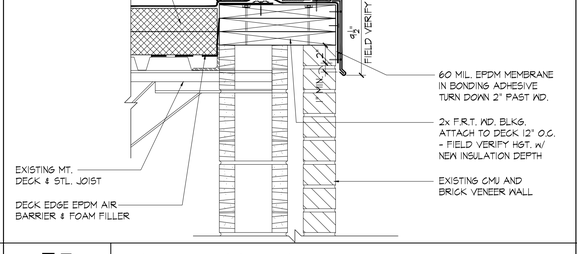
J13	ROOF 8D @ EXISTING EXP. JOINT - 4-HR
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.

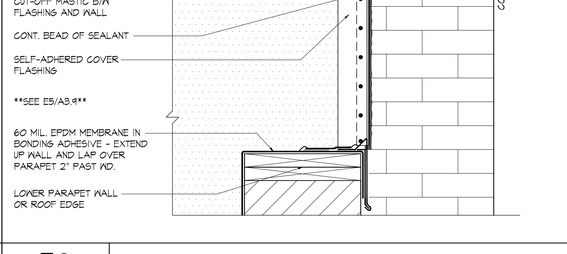


E1	3E ROOF EDGE @ GUTTER
22009-DETAILS	1 1/2" = 1'-0"

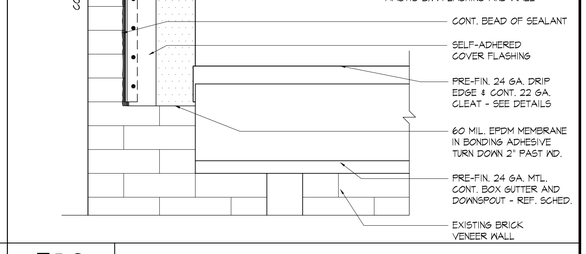
NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



E5	3E HIGH ROOF EDGE
22009-DETAILS	1 1/2" = 1'-0"

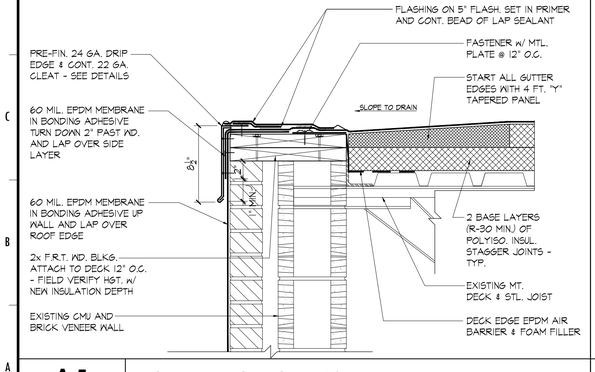


E9	CHANGE AT FACADE ELEVATION
22009-DETAILS	1 1/2" = 1'-0"



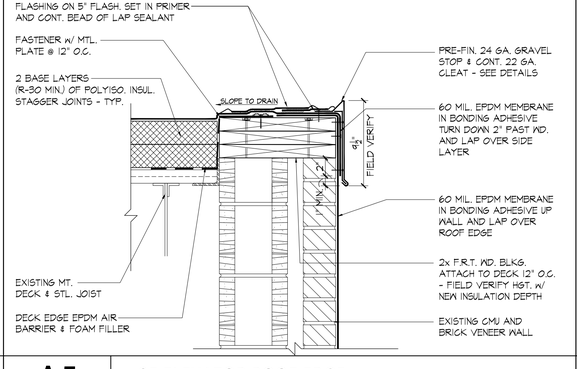
F13	PARAPET RETURN
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



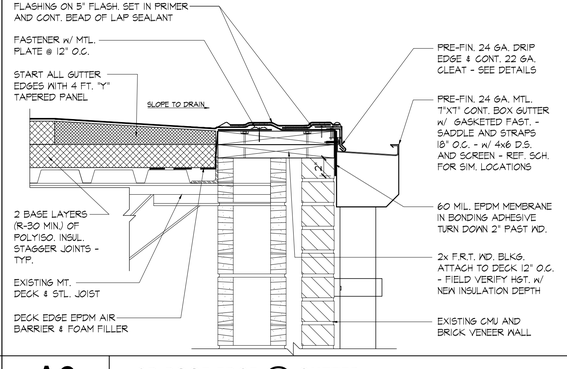
A1	3E ELEVATOR LOW EDGE
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



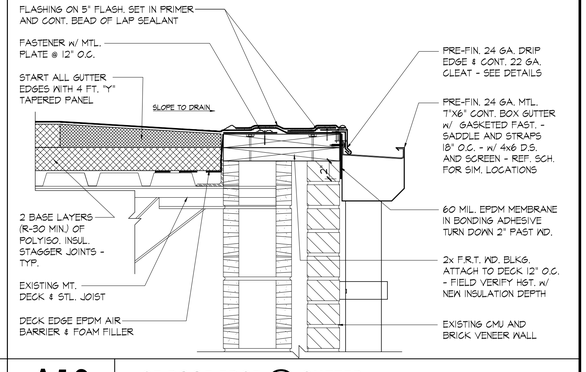
A5	3E ELEVATOR ROOF EDGE
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



A9	8D ROOF EDGE @ GUTTER
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM I-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



A13	8E ROOF EDGE @ GUTTER
22009-DETAILS	1 1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

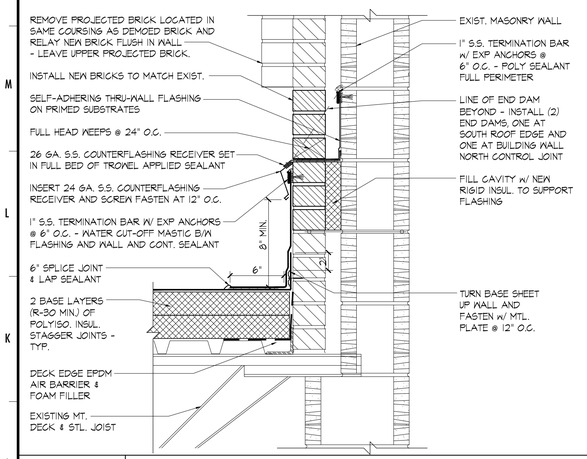
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

A3.3

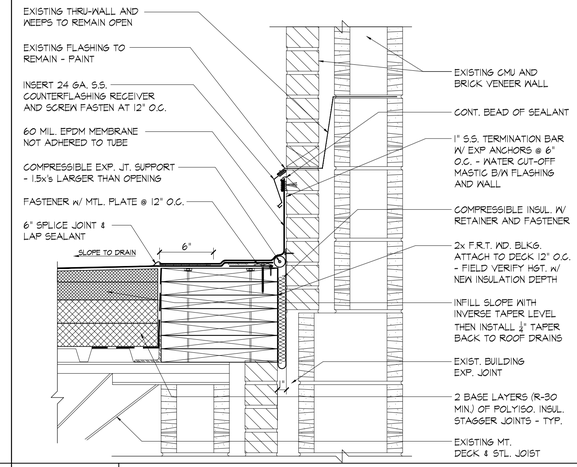
NOTE:
1. INSPECT EXISTING WALLS, WEEPS AND THRU-WALL FLASHING TO DETERMINE ACTUAL HEIGHT OF NEW FLASHING AND TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



J1 — THRU-WALL DETAIL @ 4C - 4-HR FIREWALL

22009-DETAILS | 1 1/2" = 1'-0"

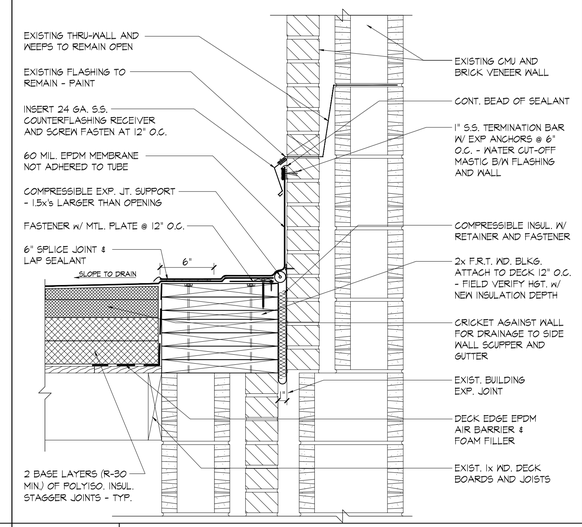
NOTE:
1. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.



J5 — 4C WALL @ EXPANSION JOINT

22009-DETAILS | 1 1/2" = 1'-0"

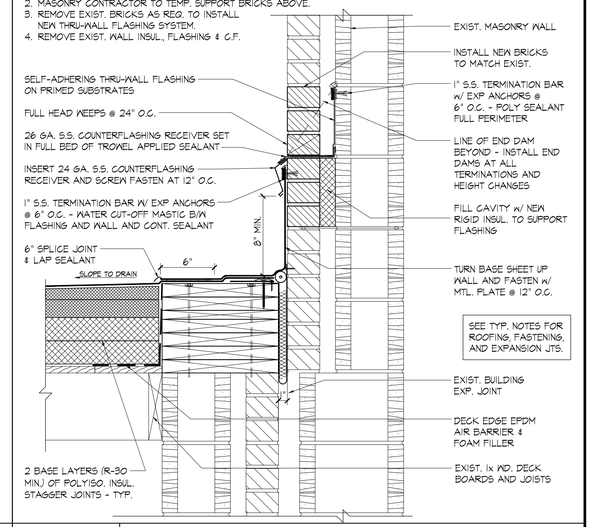
NOTE:
1. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.



J9 — THRU-WALL DETAIL @ 4B TO REMAIN

22009-DETAILS | 1 1/2" = 1'-0"

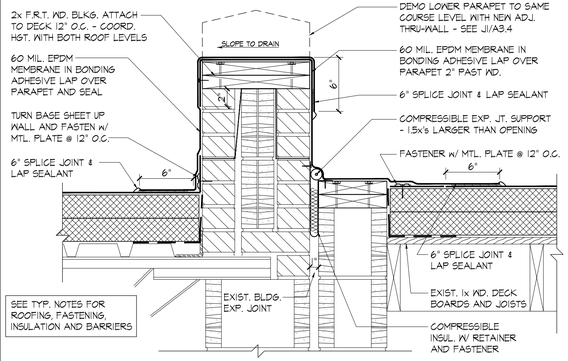
NOTE:
1. **ALIGN NEW THRU-WALL WITH ADJACENT SYSTEM. SEE J9/A9.4 FOR LOCATION
2. MASONRY CONTRACTOR TO TEMP. SUPPORT BRICKS ABOVE.
3. REMOVE EXIST. BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING & C.F.



J13 — THRU-WALL DETAIL @ 4B RAISE

22009-DETAILS | 1 1/2" = 1'-0"

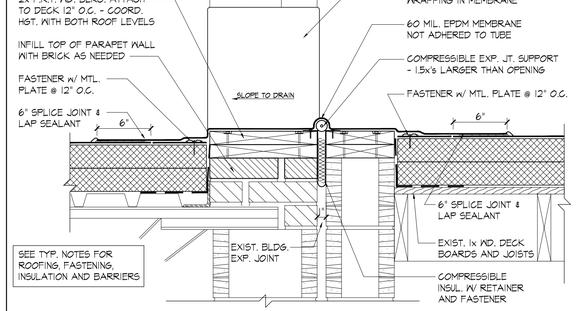
NOTE:
1. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY.
2. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
3. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.
4. INFILL SIDE OF HIGH PARAPET WITH MINERAL WOOL AND BRICK MATCH.



E1 — SIDE OLD GYM ROOF TRANSITION - 4-HR FIREWALL

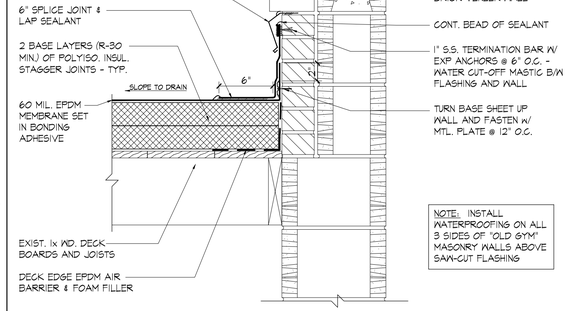
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY.
2. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.



E5 — SIDE OLD GYM SCUPPER

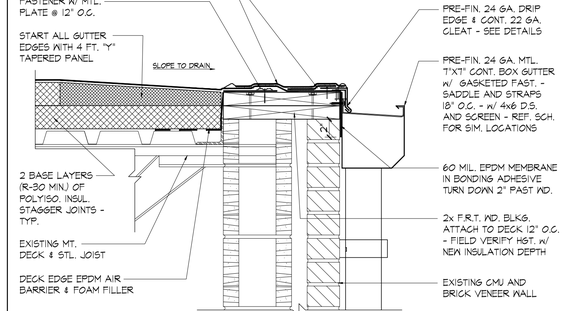
22009-DETAILS | 1 1/2" = 1'-0"



E9 — OLD GYM WALL @ WINDOWS

22009-DETAILS | 1 1/2" = 1'-0"

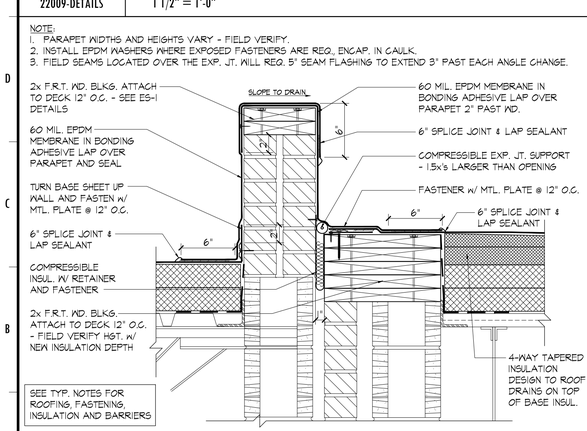
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



E13 — 4B ROOF EDGE @ GUTTER

22009-DETAILS | 1 1/2" = 1'-0"

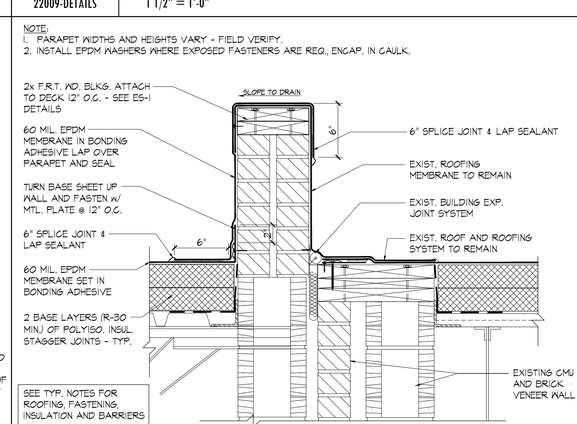
NOTE:
1. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY.
2. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
3. FIELD SEAMS LOCATED OVER THE EXP. JT. WILL REQ. 5" SEAM FLASHING TO EXTEND 3" PAST EACH ANGLE CHANGE.



A1 — HIDDEN PARAPET w/ EXPASION - 4-HR FIREWALL

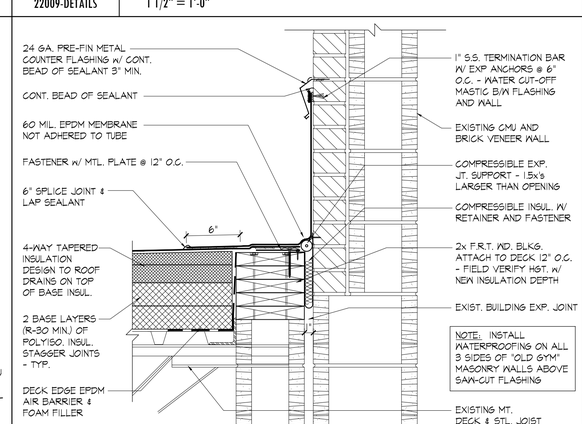
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY.
2. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



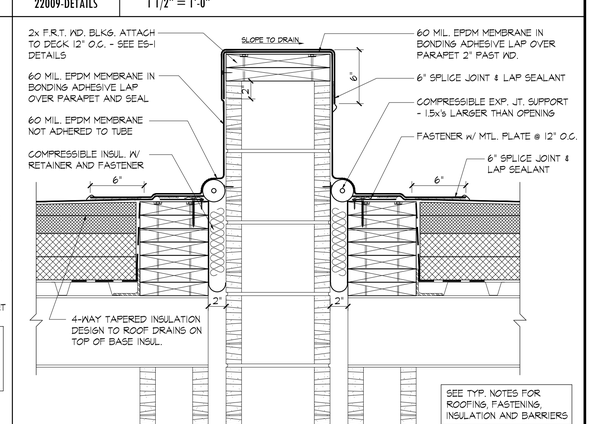
A5 — HIDDEN PARAPET - 4-HR FIREWALL

22009-DETAILS | 1 1/2" = 1'-0"



A9 — GYM WALL @ EXP. JOINT

22006-DETAILS | 1 1/2" = 1'-0"



A13 — DOUBLE EXPASION - 4-HR FIREWALL

22009-DETAILS | 1 1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

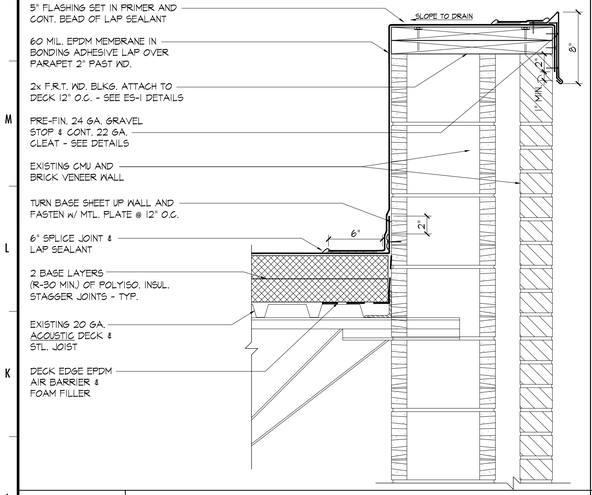
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

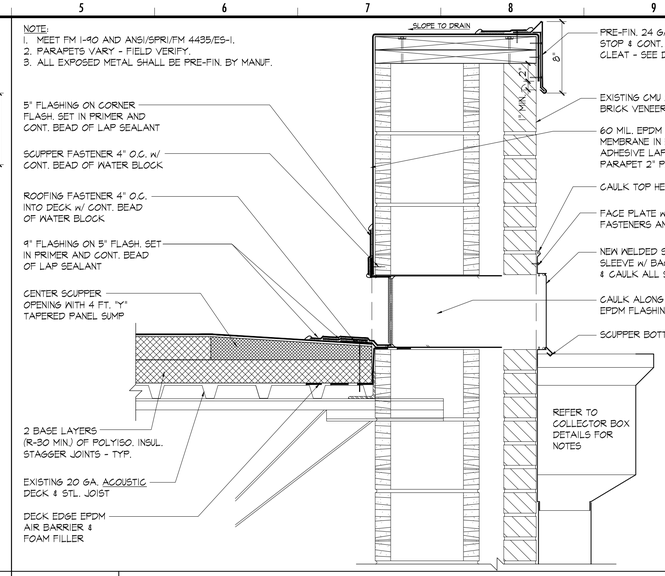
A3.4

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



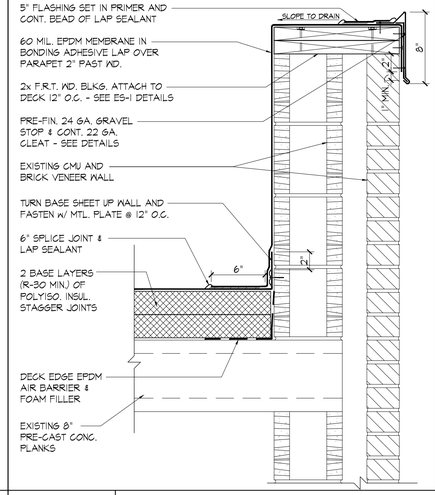
J1	PARAPET @ NEW GYMNASIUM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. ALL EXPOSED METAL SHALL BE PRE-FIN. BY MANUF.



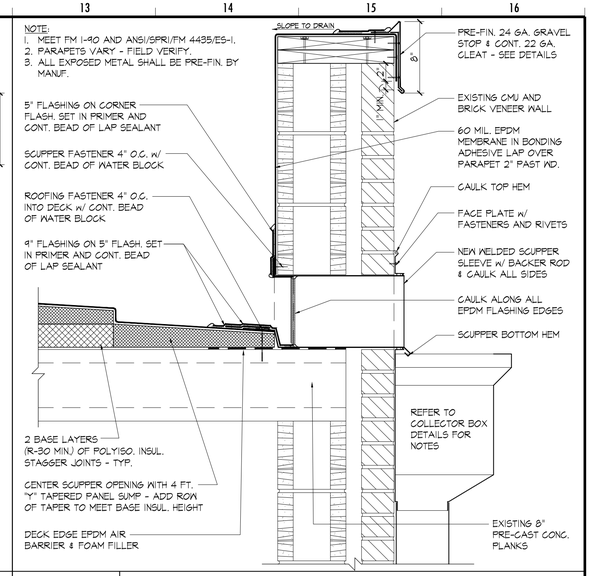
J5	SCUPPER @ NEW GYM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



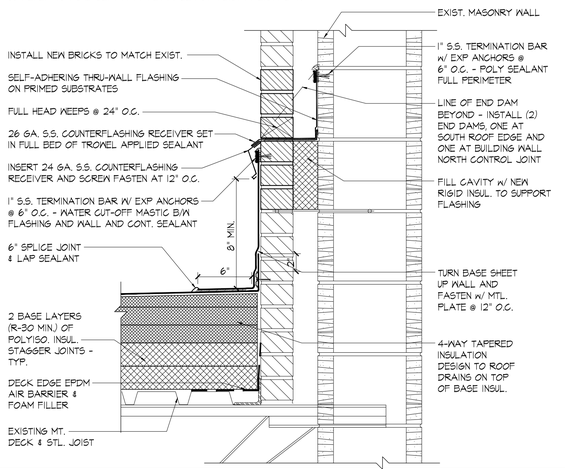
J10	PARAPET @ LOCKER ROOM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPETS VARY - FIELD VERIFY.
3. ALL EXPOSED METAL SHALL BE PRE-FIN. BY MANUF.



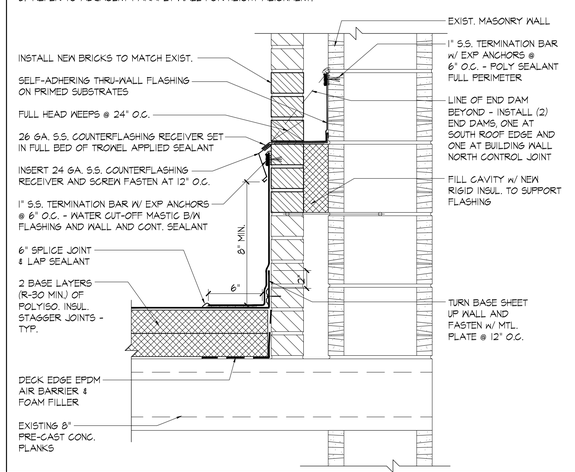
J13	SCUPPER @ LOCKER ROOM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. INSPECT EXISTING WALLS, WEEPS AND THRU-WALL FLASHING TO DETERMINE ACTUAL HEIGHT OF NEW FLASHING AND TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



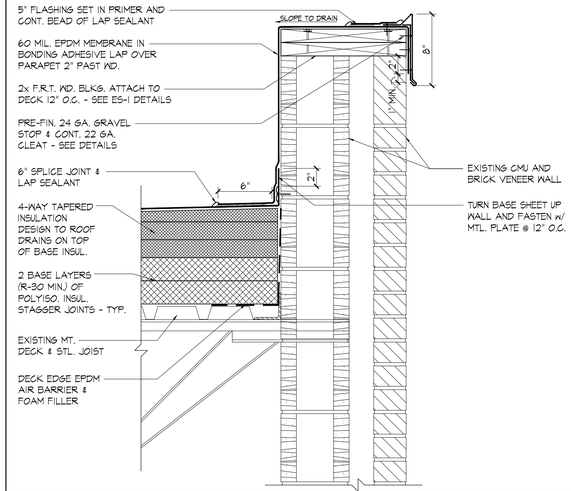
D1	THRU-WALL @ NEW GYMNASIUM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. INSPECT EXISTING WALLS, WEEPS AND THRU-WALL FLASHING TO DETERMINE ACTUAL HEIGHT OF NEW FLASHING AND TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



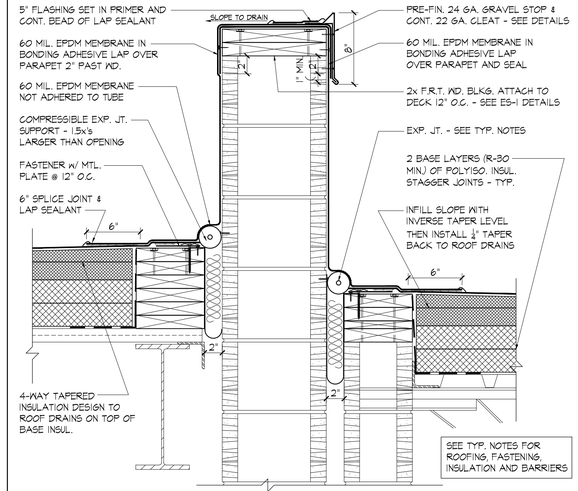
D5	THRU-WALL @ LOCKER TOOM
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



D9	PARAPET @ 4-WAY TAPER ROOF
22009-DETAILS	1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM MEMBRANE WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



D13	DOUBLE EXPANSION @ NEW GYMNASIUM 4-HR
22009-DETAILS	1 1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

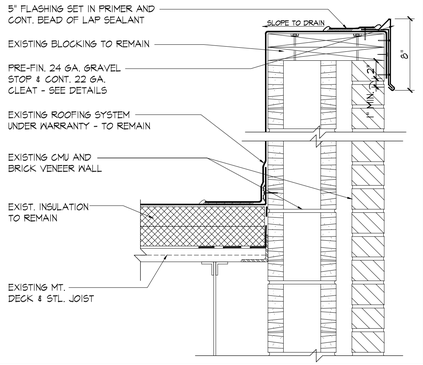
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

A3.5

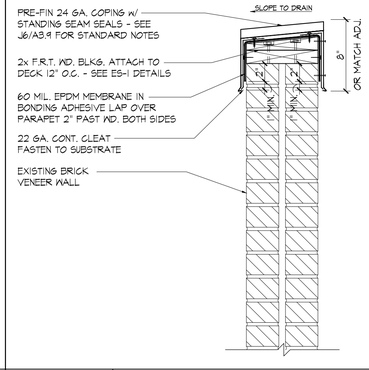
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



K1 EXIST. COPING DETAIL - REMOVED

22009-DETAILS | 1 1/2" = 1'-0"

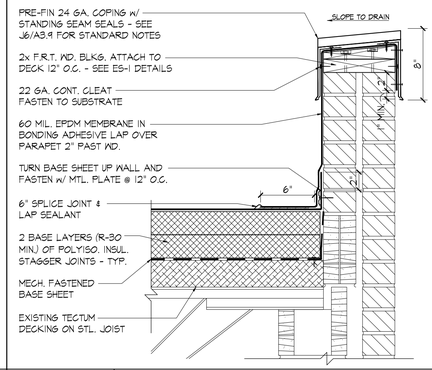
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



K4 NEW COPING DETAIL - OPENING

22009-DETAILS | 1 1/2" = 1'-0"

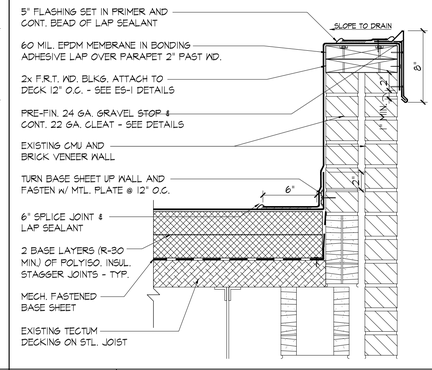
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



K7 NEW COPING DETAIL - AUD

22009-DETAILS | 1 1/2" = 1'-0"

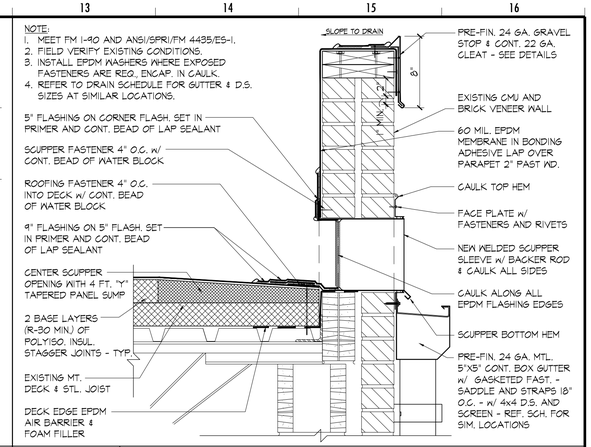
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



K10 PARAPET DETAIL @ AUD. WING

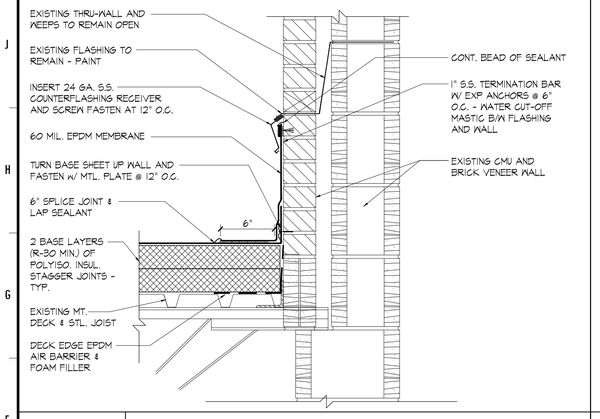
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



K13 SCUPPER AND GUTTER DETAIL

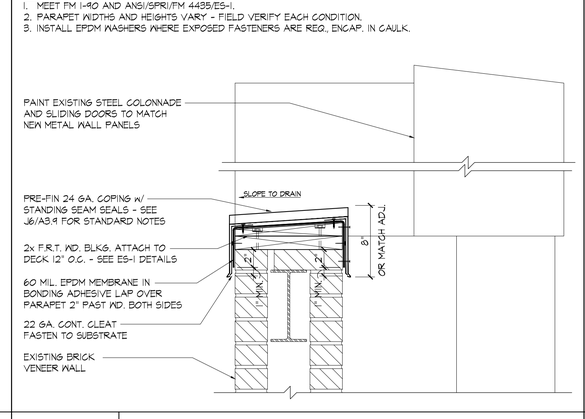
22009-DETAILS | 1 1/2" = 1'-0"



F1 THRU-WALL TO REMAIN

22009-DETAILS | 1 1/2" = 1'-0"

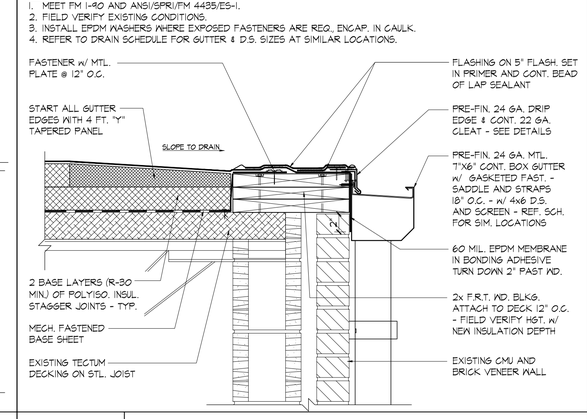
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



F5 NEW COPING DETAIL - CURVED COLONNADE

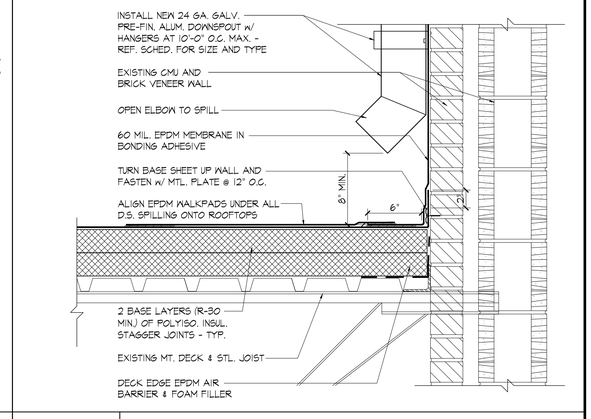
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.



F9 AUD. WING @ GUTTER

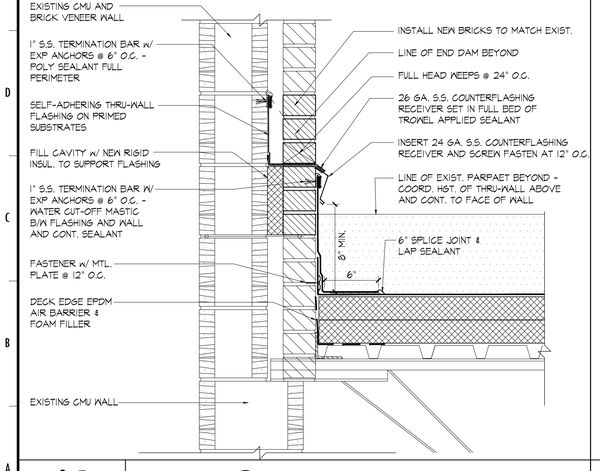
22009-DETAILS | 1 1/2" = 1'-0"



F13 AUD. WING @ LOW ROOF

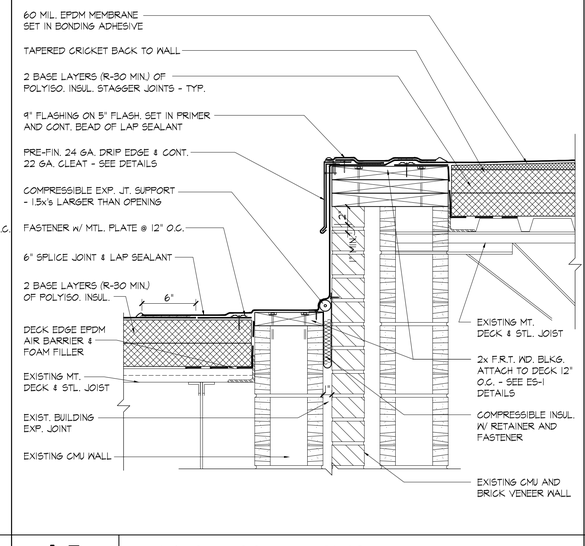
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. INSPECT EXIST. WALLS, WEEPS & THRU-WALL FLASHING TO DETERMINE HEIGHT OF NEW FLASHING & TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING AND COUNTERFLASHING.
5. REFER TO ADJACENT PARAPET WALL FOR HEIGHT ALIGNMENT.



A1 ROOF 8C @ AT HIGH WALL

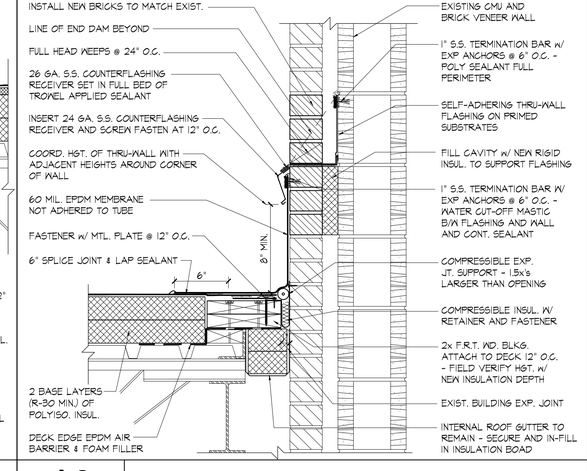
22009-DETAILS | 1 1/2" = 1'-0"



A5 HI / LOW ROOF TRANSITION

22009-DETAILS | 1 1/2" = 1'-0"

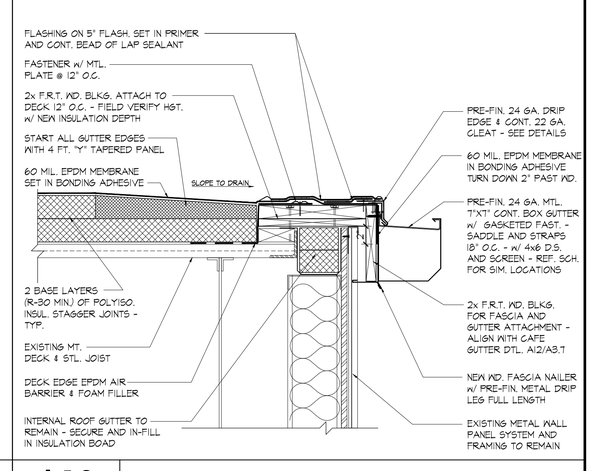
NOTE:
1. INSPECT EXIST. WALLS, WEEPS & THRU-WALL FLASHING TO DETERMINE HEIGHT OF NEW FLASHING & TERMINATION.
2. MASONRY CONTRACTOR TO TEMPORARILY SUPPORT BRICKS ABOVE.
3. REMOVE EXISTING BRICKS AS REQ. TO INSTALL NEW THRU-WALL FLASHING SYSTEM.
4. REMOVE EXIST. WALL INSUL., FLASHING AND COUNTERFLASHING.
5. CLOSE OFF DRAINS AND BACKFILL EXIST. INTERNAL GUTTER WITH INSULATION.



A9 IN-FILL INTERNAL GUTTER

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. FIELD VERIFY EXISTING CONDITIONS.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.
4. REFER TO DRAIN SCHEDULE FOR GUTTER & D.S. SIZES AT SIMILAR LOCATIONS.
5. CLOSE OFF DRAINS AND BACKFILL EXIST. INTERNAL GUTTER WITH INSULATION.



A13 IN-FILL INTERNAL GUTTER FOR NEW GUTTER

22009-DETAILS | 1 1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

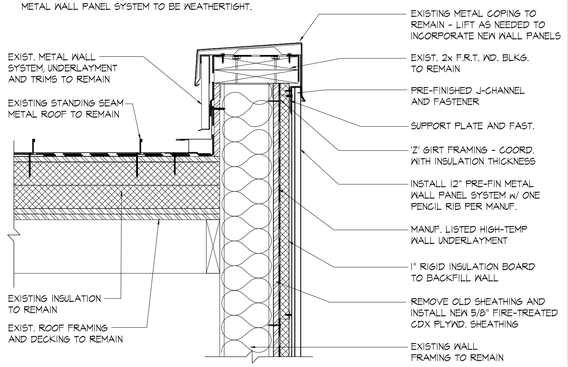
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

A3.6

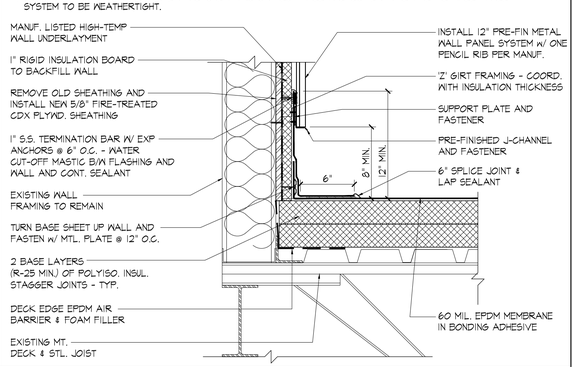
NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.
4. DEMO EXISTING EIFS WALL SYSTEM AND SHEATHING ON WEST WALL AND COVER IN NEW METAL WALL PANEL SYSTEM TO BE WEATHERTIGHT.



K1 METAL END WALL @ GABLE PARAPET

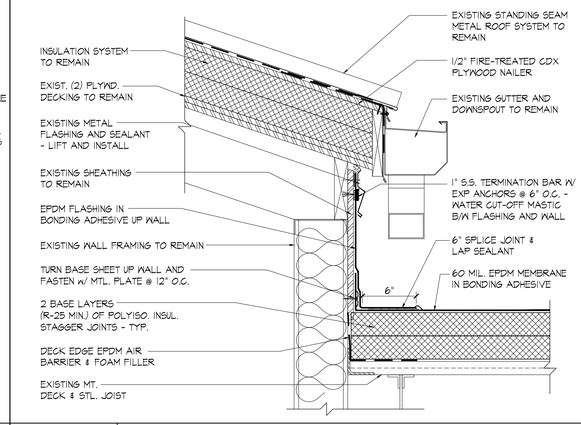
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.
4. DEMO EXISTING EIFS WALL SYSTEM AND SHEATHING ON WEST WALL AND COVER IN NEW METAL WALL PANEL SYSTEM TO BE WEATHERTIGHT.



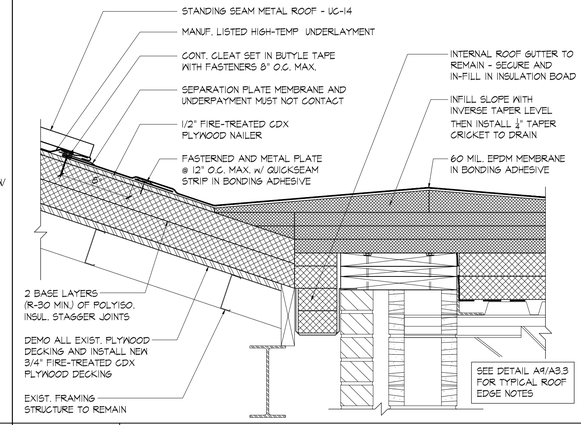
K5 METAL END WALL @ ROOF LINE

22009-DETAILS | 1 1/2" = 1'-0"



K9 GABLE ROOF GUTTER SIDE TIE-IN

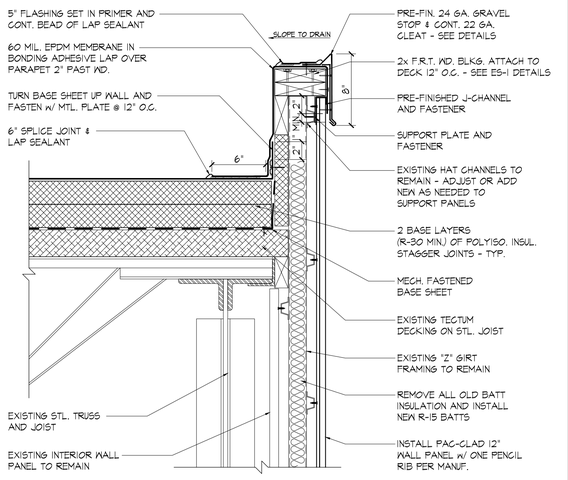
22009-DETAILS | 1 1/2" = 1'-0"



K13 CAFE ROOF @ CRICKET

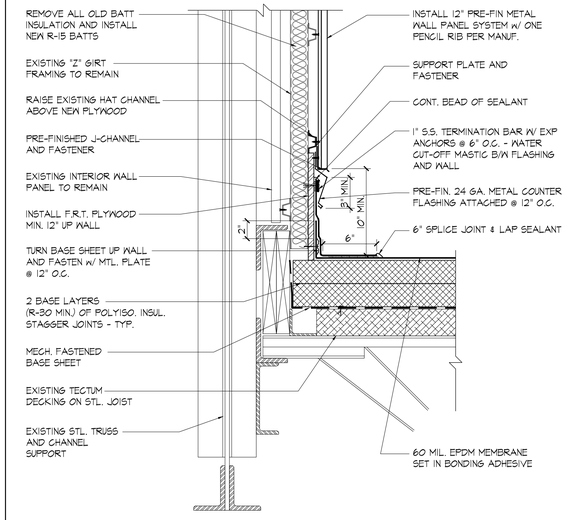
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. PARAPET WIDTHS AND HEIGHTS VARY - FIELD VERIFY EACH CONDITION.
3. INSTALL EPDM WASHERS WHERE EXPOSED FASTENERS ARE REQ., ENCAP. IN CAULK.



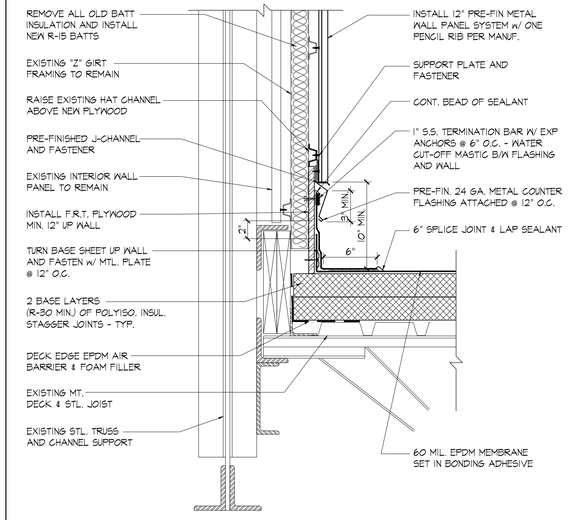
E1 METAL WALL HIGH @ AUDITORIUM

22009-DETAILS | 1 1/2" = 1'-0"



E5 METAL WALL LOW @ AUDITORIUM

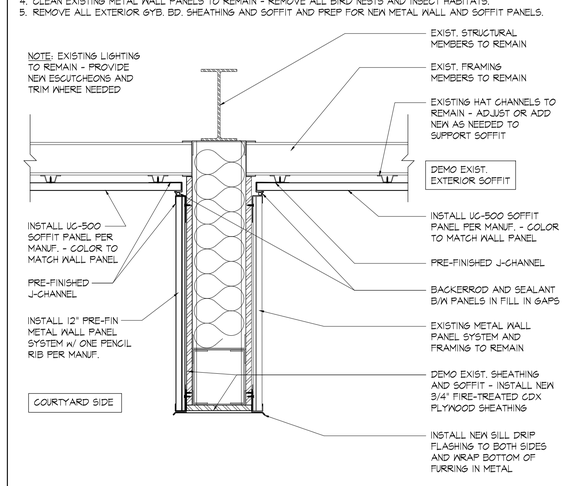
22009-DETAILS | 1 1/2" = 1'-0"



E9 METAL WALL LOW @ AUDITORIUM

22009-DETAILS | 1 1/2" = 1'-0"

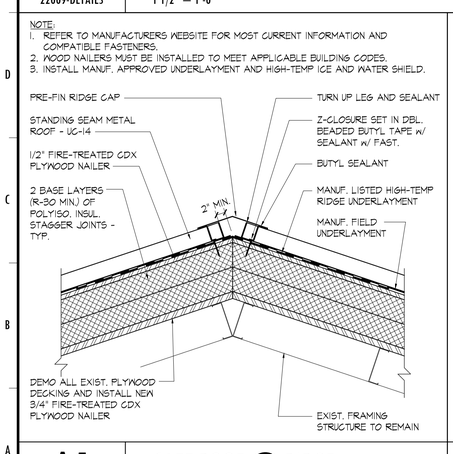
NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.
4. CLEAN EXISTING METAL WALL PANELS TO REMAIN - REMOVE ALL BIRD NESTS AND INSECT HABITATS.
5. REMOVE ALL EXTERIOR GYB. BD. SHEATHING AND SOFFIT AND PREP FOR NEW METAL WALL AND SOFFIT PANELS.



E13 FURRDOWN AND CAFE SOFFIT

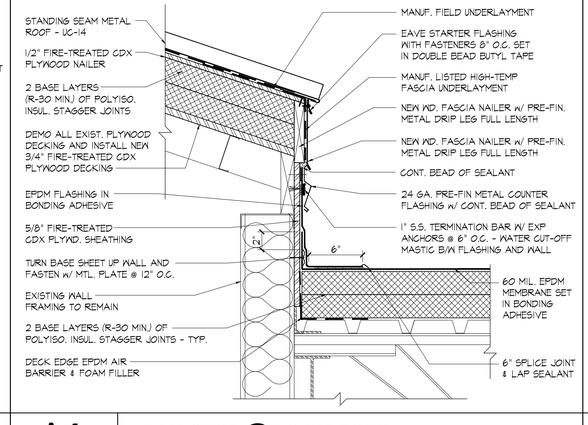
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.



A1 CAFE ROOF @ RIDGE

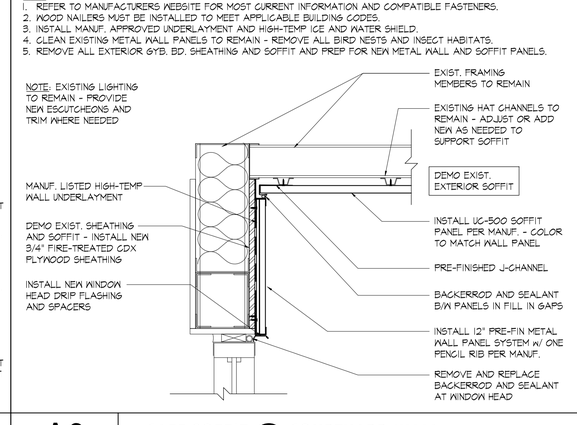
22009-DETAILS | 1 1/2" = 1'-0"



A4 CAFE ROOF @ LOWER ROOF

22009-DETAILS | 1 1/2" = 1'-0"

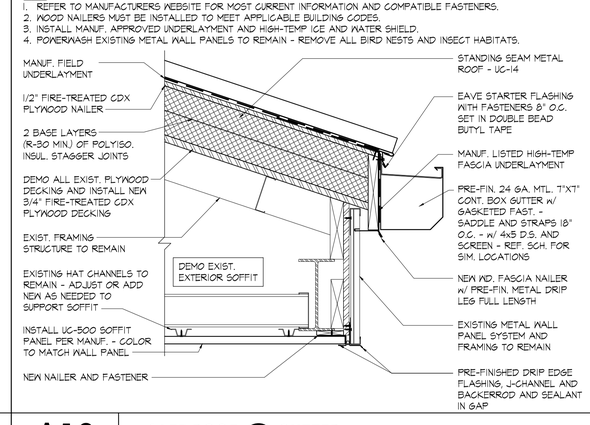
NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.
4. CLEAN EXISTING METAL WALL PANELS TO REMAIN - REMOVE ALL BIRD NESTS AND INSECT HABITATS.
5. REMOVE ALL EXTERIOR GYB. BD. SHEATHING AND SOFFIT AND PREP FOR NEW METAL WALL AND SOFFIT PANELS.



A8 CAFE SOFFIT @ COURTYARD WALL

22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.
4. POWERWASH EXISTING METAL WALL PANELS TO REMAIN - REMOVE ALL BIRD NESTS AND INSECT HABITATS.



A12 CAFE ROOF @ GUTTER

22009-DETAILS | 1 1/2" = 1'-0"

braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

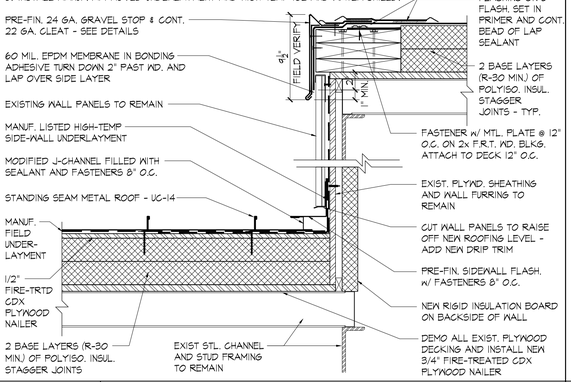
Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

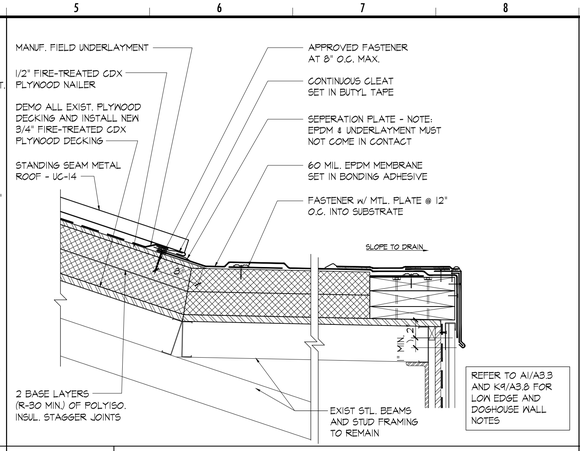
A3.7

NOTE:
1. REFER TO MANUFACTURERS WEBSITE FOR MOST CURRENT INFORMATION AND COMPATIBLE FASTENERS.
2. WOOD NAILERS MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES.
3. INSTALL MANUF. APPROVED UNDERLAYMENT AND HIGH-TEMP ICE AND WATER SHIELD.



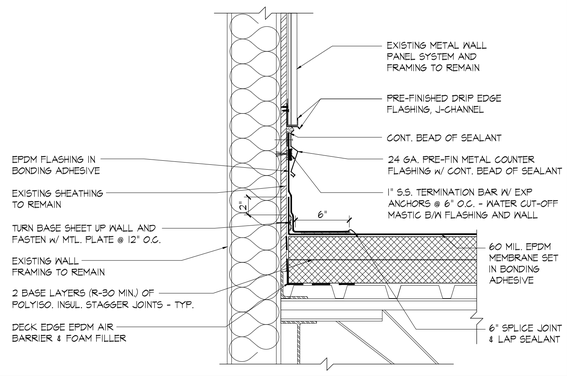
K1 DOGHOUSE @ SIDEWALL

22009-DETAILS | 1 1/2" = 1'-0"



K5 DOGHOUSE @ SLOPE ROOF

22009-DETAILS | 1 1/2" = 1'-0"



K9 DOGHOUSE @ LOW ROOF

22009-DETAILS | 1 1/2" = 1'-0"

GLAZING TYPES

C	1/4" CLEAR
T	1/4" CLEAR TEMPERED
ITT	1" INSULATED / TEMPERED / TINTED (EXTERIOR LITE TINTED)

TEMPERING NOTES

PROVIDE TEMPERED GLASS IN THE FOLLOWING LOCATIONS:

A. ALL WINDOWS LOCATED WITHIN 24" HORIZONTALLY OF DOOR AND LESS THE 60" A.F.F.

B. ALL WINDOWS WITH NET GLAZING AREA GREATER THAN 9 S.F. AND LESS THAN 18" A.F.F., UNLESS INTERRUPTED BY STRUCTURAL HORIZONTAL MEMBER FROM 34"-38" A.F.F.

C. IN ALL TUB AND SHOWER ENCLOSURES.

D. IN ANY WINDOW LOCATED IN AN ENCLOSED STAIRWAY LANDING AND/OR AND WINDOW LOCATED WITHIN 60" OF THE TOP OR BOTTOM OF A STAIRWAY IF THE BOTTOM OF THE GLAZING IS LESS THAN 60" A.F.F.

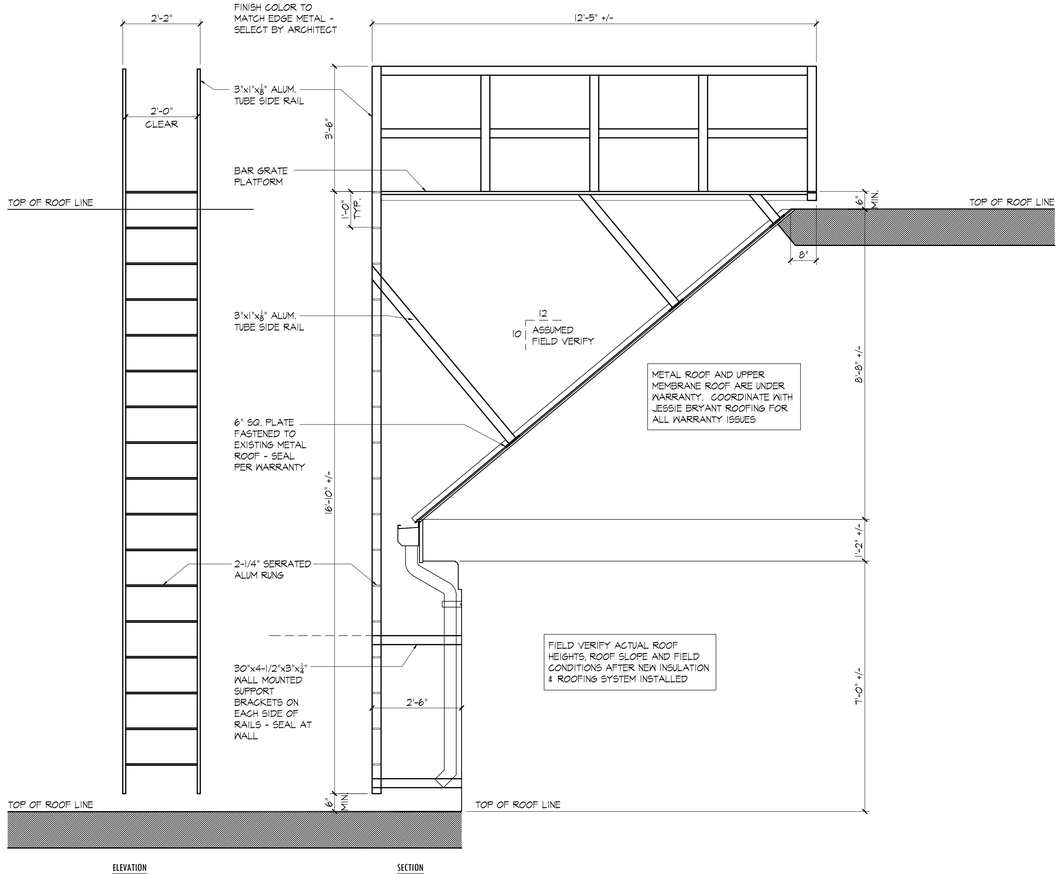
E. IN ALL DOORS.

GLAZING NOTES

1. ALL DIMENSION ARE ROUGH OPENING SIZES.
2. CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS, BRICK PATTERNING AND FINISH FLOOR LEVELS PRIOR TO FABRICATION.

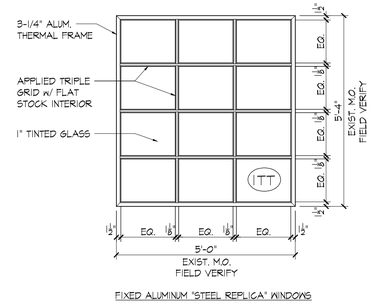
NOTE: FOLLOW ALL OSHA REGULATIONS AND REQUIREMENTS FOR FIXED LADDERS UNDER 24'

PROVIDE ENGINEERED DESIGNED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION



A1 ALUMINUM ROOF LADDER AND PLATFORM

22009-DETAILS | 1/2" = 1'-0"



FIXED ALUMINUM "STEEL REPLICA" WINDOWS

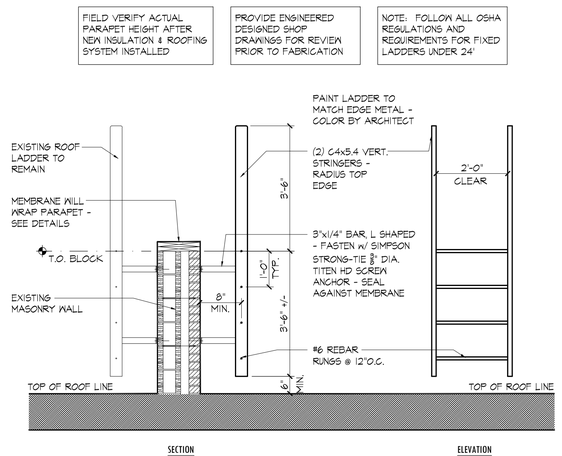
F9 WINDOW TYPE ELEVATION ALT #1

22009-DETAILS | 1/2" = 1'-0"

FIELD VERIFY ACTUAL PARAPET HEIGHT AFTER NEW INSULATION & ROOFING SYSTEM INSTALLED

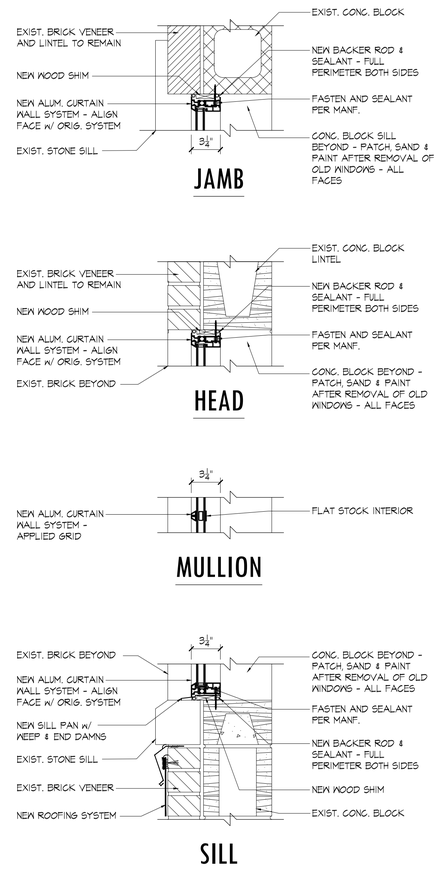
PROVIDE ENGINEERED DESIGNED SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION

NOTE: FOLLOW ALL OSHA REGULATIONS AND REQUIREMENTS FOR FIXED LADDERS UNDER 24'



A9 METAL WALL LADDER

22009-DETAILS | 1/2" = 1'-0"



A13 WINDOW DETAILS ALT #1

22009-DETAILS | 1-1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

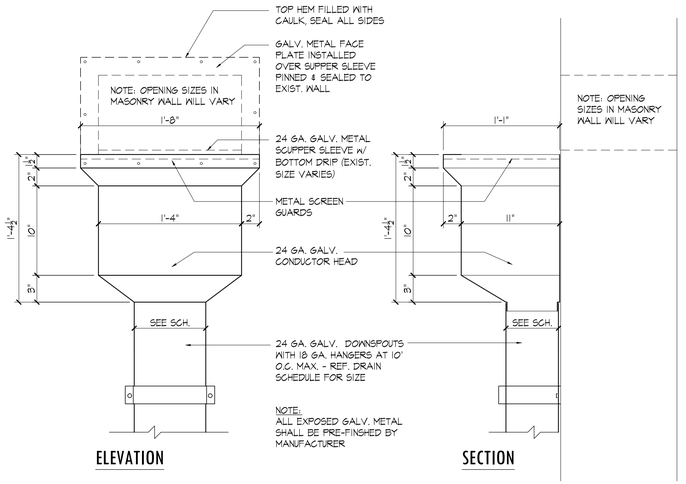
7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

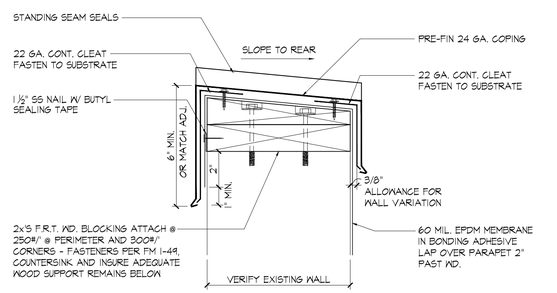
A3.8



J1 COLLECTOR HEAD DETAILS

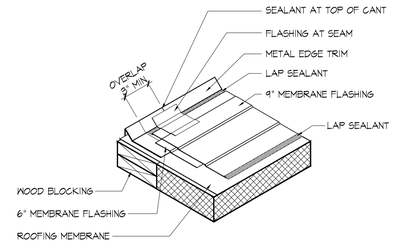
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. MEET ANSI/SPRI/FM 4435/ES-1.
2. ALL COPINGS SHALL SLOPE TO ENSURE POSITIVE DRAINAGE TO ROOF SURFACE.
3. VERIFY ALL COPING DIMENSIONS FOR SPECIFIC LOCATIONS AND WITH EXISTING CONDITIONS. IT IS THE INTENT FOR THE NEW COPINGS TO COVER PARAPET MATERIALS TO PROVIDE WEATHERTIGHT COVERAGE AND ALSO ALIGN WITH ANY EXISTING COPING THAT IS TO REMAIN.
4. REFER TO FM 1-44 FOR THE PROPER ATTACHMENT OF WOOD BLOCKING. ATTACH @ 250#/' @ PERIMETER AND 300#/' CORNERS - FASTENERS PER FM 1-49, COUNTERSINK AND INSURE ADEQUATE WOOD SUPPORT REMAINS BELOW.
5. METAL COPING FACE AND REAR PANEL LENGTHS SHALL MEET MINS. AND MAX. PROVIDE REQUIRED 3/8" REAR PANEL ALLOWANCE FOR WALL VARIATION.



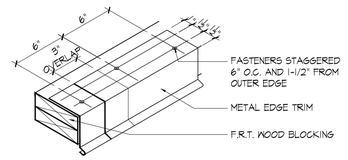
J6 METAL EDGE DETAILS

22009-DETAILS | 3" = 1'-0"



L10 GRAVEL EDGE TRIM w/ LAPS

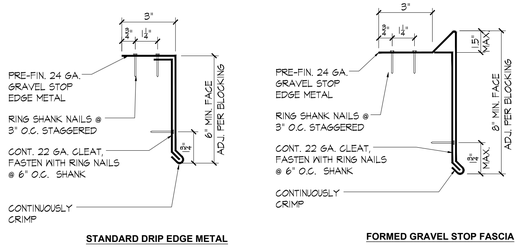
22009-DETAILS | N.T.S.



J10 METAL EDGE FASTENER PATTERN

22009-DETAILS | N.T.S.

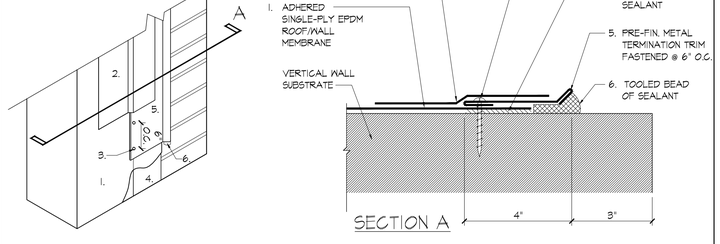
NOTE:
1. MEET FM 1-90 AND ANSI/SPRI/FM 4435/ES-1.
2. REF. TO SPECIFIC PARAPET LOCATIONS FOR ADDITIONAL NOTES.
3. REFER TO FM 1-49 FOR THE PROPER ATTACHMENT OF WOOD BLOCKING.



E1 METAL EDGE DETAILS

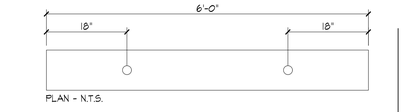
22009-DETAILS | 3" = 1'-0"

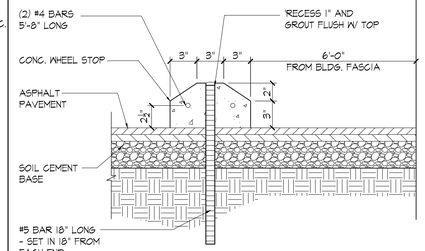
NOTE:
1. WHEN TERMINATION OCCURS AT BRICK WALL CORNER, HOLD BACK MIN. 3" FROM EDGE.



E5 TYPICAL VERTICAL FLASHING TERMINATION

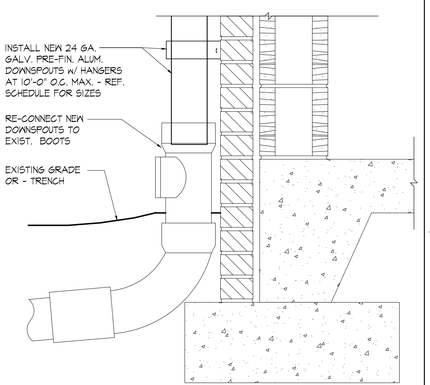
22009-DETAILS | N.T.S.





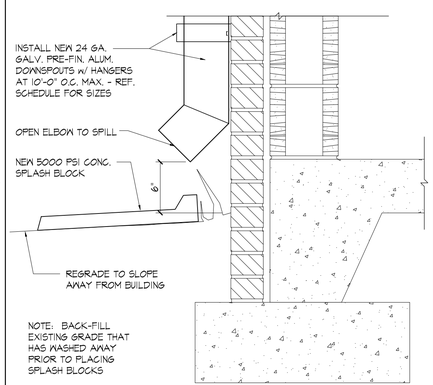
E10 CONCRETE WHEEL STOP

22009-DETAILS | 1 1/2" = 1'-0"



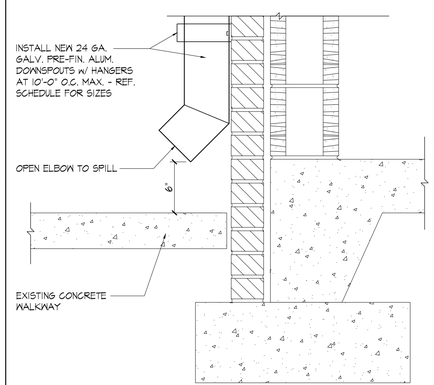
A1 DRAIN TO EXISTING STORM DRAIN

22009-DETAILS | 1 1/2" = 1'-0"



A4 DRAIN TO NEW SPLASH BLOCK

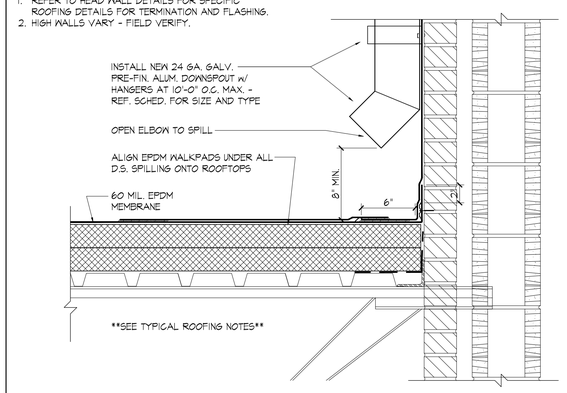
22009-DETAILS | 1 1/2" = 1'-0"



A7 DRAIN TO EXISTING WALKWAY

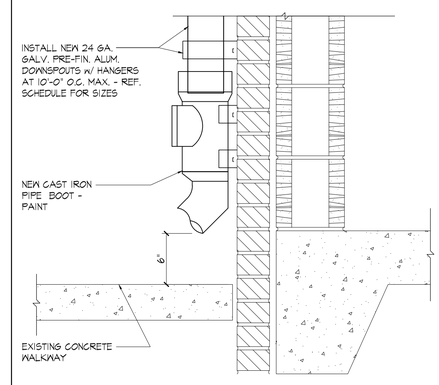
22009-DETAILS | 1 1/2" = 1'-0"

NOTE:
1. REFER TO HEAD WALL DETAILS FOR SPECIFIC ROOFING DETAILS FOR TERMINATION AND FLASHING.
2. HIGH WALLS VARY - FIELD VERIFY.



A10 DRAIN TO WALKPAD

22009-DETAILS | 1 1/2" = 1'-0"



A14 NEW PIPE BOOT

22009-DETAILS | 1 1/2" = 1'-0"

bd GROUP
braganza design/GROUP
architecture . planning . interiors
1861 madison avenue
memphis, tennessee 38104
(p)901.458.7600 (f)901.458.6633

Seal

- PRELIMINARY - NOT FOR CONSTRUCTION

'FOR OWNER REVIEW'

Issues and Revisions

01	12.20.23	Schematic Design
02	03.28.24	Design Development
03	05.30.24	Construction Documents

Project Name

Bolton High School

Roof Replacement Package 2

TFM: 02447, 02447-A
MSCS: 2023-0607

7323 Brunswick Rd
Arlington, Tennessee 38002

Drawing Name

ROOF DETAILS

Project No. 22009 Date 03.28.24

A3.9